

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBENL-WTW-P24060724B-3

FCC ID: RYK-WNFQ291BEBT

Product: WiFi 7/BT module

Brand: Sparklan

Model No.: WNFQ-292BE(BT)

Series Model: WNFQ-291BE(BT), WNFQ-291BEI(BT)

Received Date: 2025/3/5

Test Date: 2025/5/5 ~ 2025/8/16

Issued Date: 2025/9/17

Applicant: SparkLAN Communications, Inc.

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FCC Registration / 723255 / TW2022

Designation Number:

Approved by:



Wen Yu / Assistant Manager

, Date:

2025/9/17

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Prepared by : Phoenix Huang / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBENL-WTW-P24060724B-3	Original release.	2025/9/17

1 Certificate

Product: WiFi 7/BT module

Brand: Sparklan

Test Model: WNFAQ-292BE(BT)

Series Model: WNFAQ-291BE(BT), WNFAQ-291BEI(BT)

Sample Status: Engineering sample

Applicant: SparkLAN Communications, Inc.

Test Date: 2025/5/5 ~ 2025/8/16

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

Measurement procedure: ANSI C63.10-2020
KDB 291074 D02 EMC Measurement v01
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)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(3)	Power Spectral Density	N/A	Refer to Note 1 below
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -17.08 dB at 25.12500 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -4.2 dB at 199.60 MHz
15.407(b)(5) 15.407(b)(10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.6 dB at 5926.51 MHz
15.407(e)	6 dB Bandwidth	N/A	Refer to Note 1 below
15.203	Antenna Requirement	Pass	Antenna connector is MHF 4L, I-PEX MHF4, RP-SMA (M), MHF4L to SMA-F not a standard connector.

Note:

- Only RF Output Power, AC Power Conducted Emissions and Unwanted Emissions test items were performed for this addendum. The others testing data refer to original test report (Report No.: RFBENL-WTW-P24060724-3).
- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
RF Output Power	-	1.1 dB
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	5.4 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	WiFi 7/BT module
Brand	Sparklan
Test Model	WNFQ-292BE(BT)
Series Model	WNFQ-291BE(BT), WNFQ-291BEI(BT)
Status of EUT	Engineering sample
Power Supply Rating	3.3 Vdc from host equipment
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM for OFDM in 11ac mode 4096QAM for OFDMA in 11ax mode 4096QAM for OFDMA in 11be mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 2166.7 Mbps 802.11ax: up to 2969.7 Mbps 802.11be: up to 2882.4 Mbps
Operating Frequency	5.815 GHz ~ 5.885 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20): 3 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40): 2 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80): 1 802.11ac (VHT160), 802.11ax (HE160), 802.11be (EHT160): 1
Resource Unit (RU)	Single RU: 26-tone, 52-tone, 106-tone, 242-tone, 484-tone, 996-tone, 2 * 996-tone Multi-RU (Small RU): 52-tone + 26-tone, 106-tone + 26-tone Multi-RU (Large RU): 484-tone + 242-tone, 996-tone + 484-tone
Channel Puncturing (Large RU)	80 MHz punctured by 20 MHz, 160 MHz punctured by 20 MHz 160 MHz punctured by 40 MHz
Output Power	EIRP: 245.808 mW (23.91 dBm)
EUT Category	Client device

Note:

- This report is prepared for FCC class II permissive change. The difference compared with the Report No.: RFBENL-WTW-P24060724-3 as the following:
 - ◆ Add model: WNFQ-292BE(BT)
 - ◆ Add 2nd source pin to pin chip: QCC2076 for model WNFQ-292BE(BT).
 - ◆ Disable WiFi-7 bandwidth 320 MHz for model WNFQ-292BE(BT).
 - ◆ Upgraded ANSI C63.10 standard version.
 - ◆ Remove NPTH for WNFQ-292BE(BT).
- According to above conditions, there are RF Output Power, AC Power Conducted Emissions and Unwanted Emissions test items need to be performed. All data for meeting the requirement is verified.
- All models are listed as below.

Brand	Model	Difference
Sparklan	WNFQ-291BEI(BT)	All models are electrically identical, different model names are for marketing purpose.
	WNFQ-291BE(BT)	
	WNFQ-292BE(BT)	1. Chip QCC2076 2. Disable WiFi-7 bandwidth 320 MHz

From the above models, model: WNFQ-292BE(BT) was selected as representative model for the test and its data was recorded in this report.

4. There are Bluetooth (EDR, BLE, QHS) and WLAN (2.4 GHz & 5 GHz & 5.9 GHz & 6 GHz) technology used for the EUT.

5. Simultaneously transmission combination.

DBS			
Combination	Technology		
1	WLAN(2.4GHz)_Ant 0+1		WLAN(5GHz)_Ant 0+1
2	WLAN(2.4GHz)_Ant 0+1		WLAN(6GHz)_Ant 0+1
HBS+BT			
Combination	Technology		
3	Bluetooth_Ant 0+1		WLAN(5GHz)_Ant 0+1
4	Bluetooth_Ant 0+1		WLAN(6GHz)_Ant 0+1
5	WLAN(5GHz_U-NII-1, U-NII-2A)_Ant 0+1	WLAN(5GHz_U-NII-2C, U-NII-3, U-NII-4)_Ant 0+1	Bluetooth
6	WLAN(5GHz_U-NII-1, U-NII-2A)_Ant 0+1	WLAN(6GHz)_Ant 0+1	Bluetooth
Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.			

6. The EUT support OFDMA and Partial RU mode, therefore partial RU combination were investigated and the worst case scenario was identified.

7. 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 Set	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)
1	Chain0/1	Hong-Bo	260-25094	3.53 3.06 3.07 4.81 4.2	2.4~2.4835 5.15~5.25 5.25~5.35 5.47~5.725 5.725~5.850	0.74 1.16 1.18 1.26 1.28	PIFA	MHF 4L	300
2	Chain0/1	Hong-Bo	260-25083	5.09 5.14 5.09 5.16 5.12	5.850~5.895 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	1.29 1.35 1.38 1.45 1.50	PIFA	MHF 4L	300
3	Chain0/1	Hong-Bo	260-25084	3.22 3.35 3.42 4.77 4.72 4.71 4.75 4.29 4.81 4.74	2.4~2.4835 5.150~5.250 5.250~5.350 5.470~5.725 5.725~5.850 5.850~5.895 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	0.49 0.76 0.77 0.80 0.84 0.84 0.86 0.91 0.96 0.98	Monopole	MHF 4L	200

Antenna Set	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
4	Chain0/1	SparkLAN	AD-513AX	3.11 4.46 4.07 4.53 4.06 4.04 3.97	2.4~2.4835 5.150~5.850 5.850~5.895 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	I-PEX MHF4	150
5	Chain0/1	SparkLAN	AD-510AX	2.27 2.88 2.6 3.23 3.34 3.52 3.52	2.4~2.4835 5.150~5.850 5.850~5.895 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	RP-SMA (M)	150
6	Chain0/1	SparkLAN	AD-512AX	2.35 3.00 2.80 2.87 3.02 3.02 2.61	2.4~2.4835 5.150~5.850 5.850~5.895 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	RP-SMA (M)	150
7	Chain0/1	SparkLAN	AD-516AX	1.65 4.3 4.38 4.43 4.45 4.46 4.48	2.4~2.4835 5.150~5.850 5.850~5.895 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	I-PEX MHF4	250
8	Chain0/1	Johanson	2450AD18A6050	2 1.5 2.7 2.7 2.7 2.7 2.7	2.4~2.4835 5.150~5.850 5.850~5.895 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Chip	MHF4L to SMA-F	-

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

2. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX
802.11ac (VHT160)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX
802.11ax (HE160)	2TX	2RX
802.11be (EHT20)	2TX	2RX
802.11be (EHT40)	2TX	2RX
802.11be (EHT80)	2TX	2RX
802.11be (EHT160)	2TX	2RX
802.11ax (RU26/52/106/242/484/996/2*996)	2TX	2RX
802.11be (RU26/52/106/242/484/996/2*996 MRU52+26/106+26/ 484+242/996+484/996+484+242)	2TX	2RX

Note: The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz, 160 MHz), 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160 MHz) and 802.11be mode for 20 MHz (40 MHz, 80 MHz, 160 MHz). Therefore the investigated worst case is the representative mode in test report.

3.3 Channel List

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

Channel	Frequency	Channel	Frequency	Channel	Frequency
*169	5845 MHz	173	5865 MHz	177	5885 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency
*167	5835 MHz	175	5875 MHz

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

Channel	Frequency
*171	5855 MHz

1 channel is provided for 802.11ac (VHT160), 802.11ax (HE160), 802.11be (EHT160):

Channel	Frequency
*163	5815 MHz

Note: * U-NII-3 & -4 span channels.

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.
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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	RU/MRU Index
RF Output Power	-	802.11a	CDD	169, 173, 177	BPSK	6Mb/s	NA
		802.11be (EHT20)		169, 173, 177	BPSK	MCS0	NA
		802.11be (EHT40)		167, 175	BPSK	MCS0	NA
		802.11be (EHT80)		171	BPSK	MCS0	NA
		802.11be (EHT160)		163	BPSK	MCS0	NA
		802.11be (EHT20) 26-tone RU		169, 173, 177	BPSK	MCS0	0, 0, 8
		802.11be (EHT20) 52-tone RU		169, 173, 177	BPSK	MCS0	37, 37, 40
		802.11be (EHT20) 106-tone RU		169, 173, 177	BPSK	MCS0	53, 53, 54
		802.11be (EHT20) 242-tone RU		169, 173, 177	BPSK	MCS0	61, 61, 61
		802.11be (EHT40) 484-tone RU		167, 175	BPSK	MCS0	65, 66
		802.11be (EHT80) 996-tone RU		171	BPSK	MCS0	67
		802.11be (EHT160) 2x996-tone RU		163	BPSK	MCS0	68
		802.11be (EHT20) 52+26-tone MRU		173	BPSK	MCS0	UL_RU52+26_Low_70_MCS0, UL_RU52+26_High_72_MCS0,
		802.11be (EHT20) 106+26-tone MRU		173	BPSK	MCS0	UL_RU106+26_Low_82_MCS0, UL_RU106+26_High_83_MCS0,
		802.11be (EHT80) 484+242-tone MRU		171	BPSK	MCS0	UL_RU484+242_Punc20_91_MCS0
		802.11be (EHT160) 996+484-tone MRU		163	BPSK	MCS0	UL_RU996+484_Punc40_MCS0
		802.11be (EHT80) Punctured by 20 MHz		171	BPSK	MCS0	EHT80_SU_Punct20_Mid2
		802.11be (EHT160) Punctured by 20 MHz		163	BPSK	MCS0	EHT160_SU_Punct20_Mid3
		802.11be (EHT160) Punctured by 40 MHz		163	BPSK	MCS0	EHT160_SU_Punct40_Mid2
AC Power Conducted Emissions	C	802.11be (EHT40)	CDD	167	BPSK	MCS0	NA
Unwanted Emissions below 1 GHz	A, B	802.11be (EHT40)	CDD	167	BPSK	MCS0	NA

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
Unwanted Emissions above 1 GHz	A, B	802.11be (EHT80) 484+242-tone MRU	CDD	171	BPSK	MCS0	UL_RU484+242_Punc20_91_MCS0
		802.11be (EHT160) Punctured by 20 MHz	CDD	163	BPSK	MCS0	EHT160_SU_Punct20_Mid3
EUT Configure Mode:	A	EUT only (remove 50 ohm terminator and Connect to the appropriate equipment)					
	B	EUT with 50 ohm terminator					
	C	EUT with antenna (Model: 260-25083)					
Note: For unwanted emission test items, the tested channel was chosen the worst case as mode represent to report							

3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = 2.091 ms / 2.121 ms x 100% = 98.6%

802.11be (EHT20): Duty cycle = 2.706 ms / 2.747 ms x 100% = 98.5%

802.11be (EHT40): Duty cycle = 1.578 ms / 1.604 ms x 100% = 98.4%

802.11be (EHT80): Duty cycle = 1.002 ms / 1.029 ms x 100% = 97.4%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.12 \text{ dB}$

802.11be (EHT160): Duty cycle = 0.739 ms / 0.759 ms x 100% = 97.4%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.12 \text{ dB}$

802.11be (EHT20) 26-tone RU: Duty cycle = 5.075 ms / 5.125 ms x 100% = 99.0%

802.11be (EHT20) 52-tone RU: Duty cycle = 5.07 ms / 5.115 ms x 100% = 99.1%

802.11be (EHT20) 106-tone RU: Duty cycle = 3.044 ms / 3.086 ms x 100% = 98.6%

802.11be (EHT20) 242-tone RU: Duty cycle = 5.077 ms / 5.13 ms x 100% = 99.0%

802.11be (EHT40) 484-tone RU: Duty cycle = 3.318 ms / 3.36 ms x 100% = 98.8%

802.11be (EHT80) 996-tone RU:

Duty cycle = 1.62 ms / 1.661 ms x 100% = 97.5%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.11 \text{ dB}$

802.11be (EHT160) 2x996-tone RU: Duty cycle = 2.146 ms / 2.188 ms x 100% = 98.1%

802.11be (EHT20) 52+26-tone MRU: Duty cycle = 5.077 ms / 5.13 ms x 100% = 99.0%

802.11be (EHT20) 106+26-tone MRU: Duty cycle = 5.077 ms / 5.13 ms x 100% = 99.0%

802.11be (EHT80) 484+242-tone MRU:

Duty cycle = 1.62 ms / 1.661 ms x 100% = 97.5%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.11 \text{ dB}$

802.11be (EHT160) 996+484-tone MRU: Duty cycle = 2.146 ms / 2.188 ms x 100% = 98.1%

802.11be (EHT80) Punctured by 20 MHz:

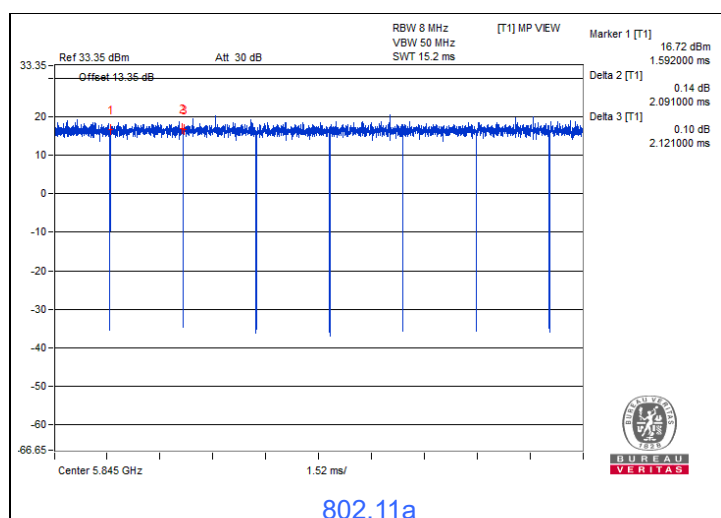
Duty cycle = 0.998 ms / 1.036 ms x 100% = 96.3%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.16 \text{ dB}$

802.11be (EHT160) Punctured by 20 MHz:

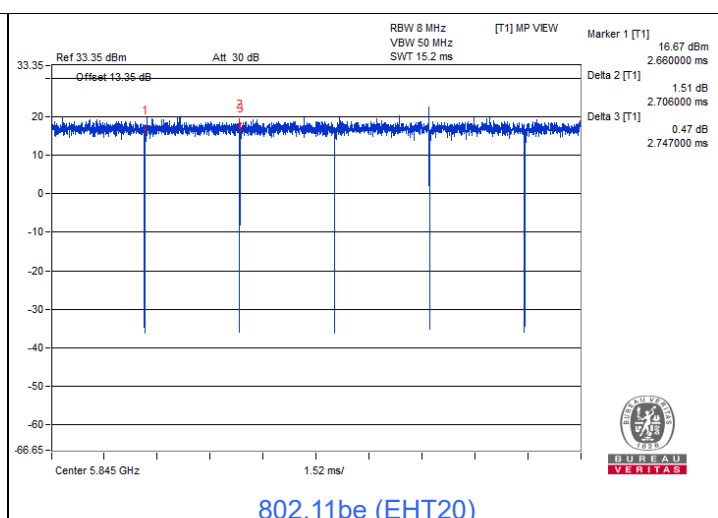
Duty cycle = 0.782 ms / 0.809 ms x 100% = 96.7%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.15 \text{ dB}$

802.11be (EHT160) Punctured by 40 MHz:

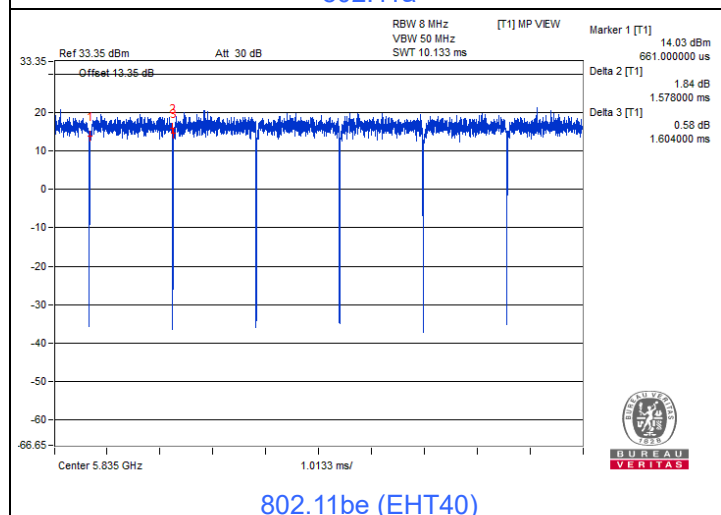
Duty cycle = 0.739 ms / 0.766 ms x 100% = 96.5%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.16 \text{ dB}$



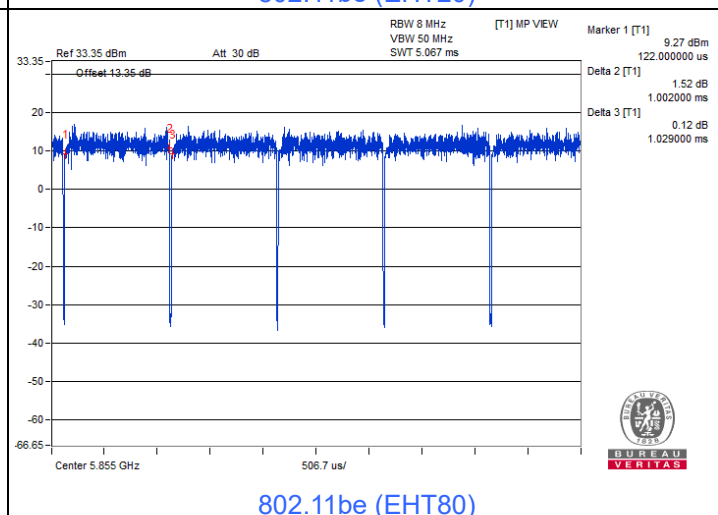
802.11a



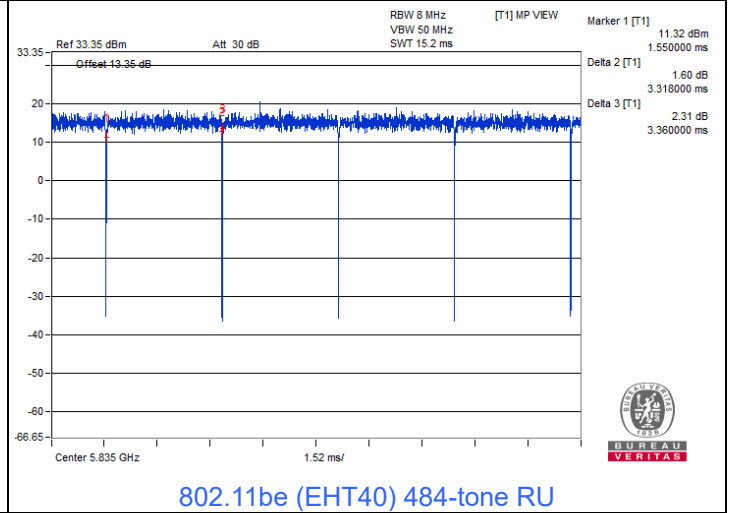
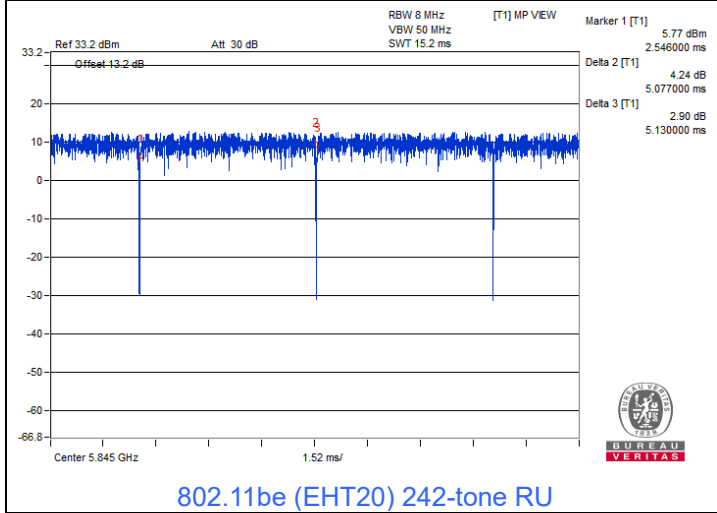
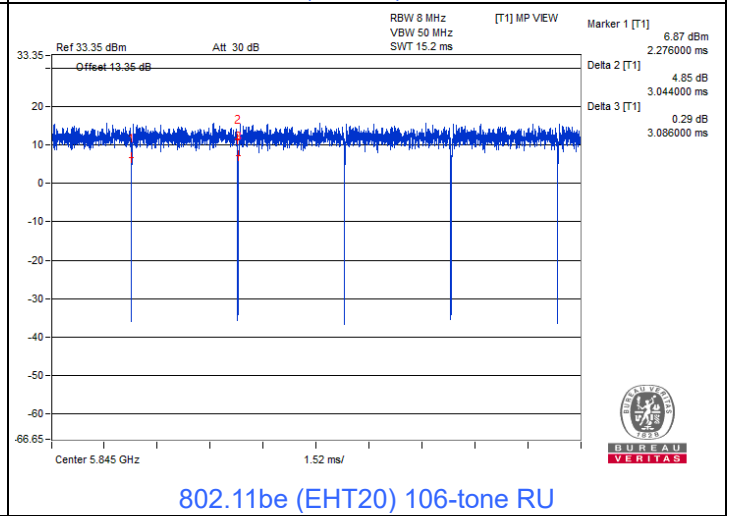
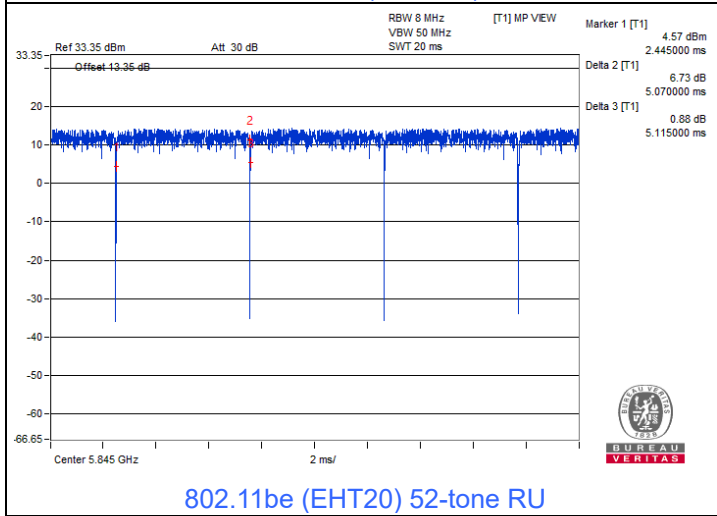
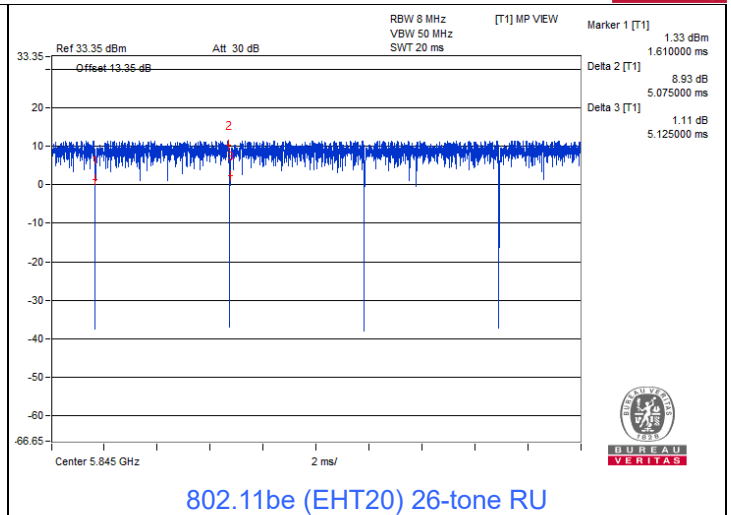
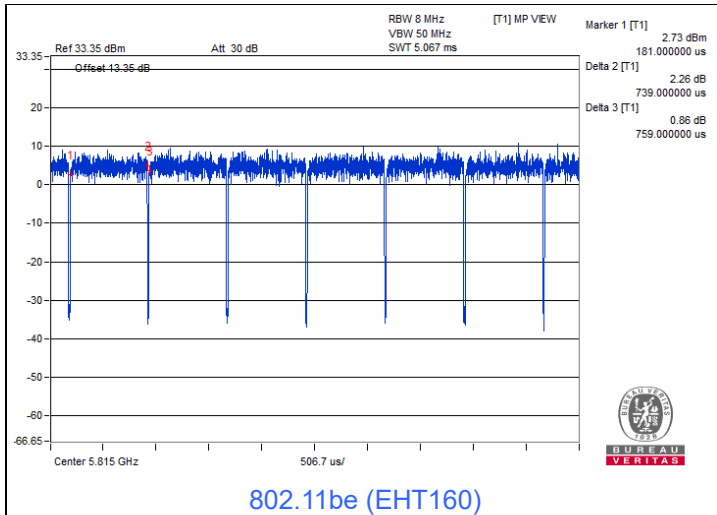
802.11be (EHT20)

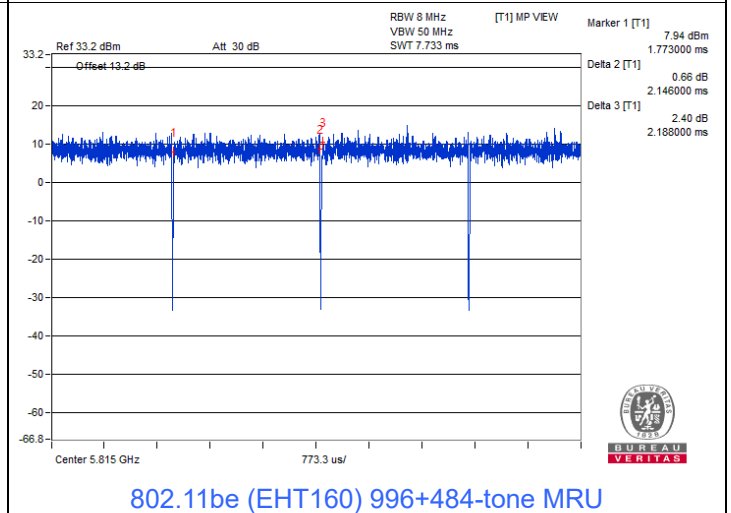
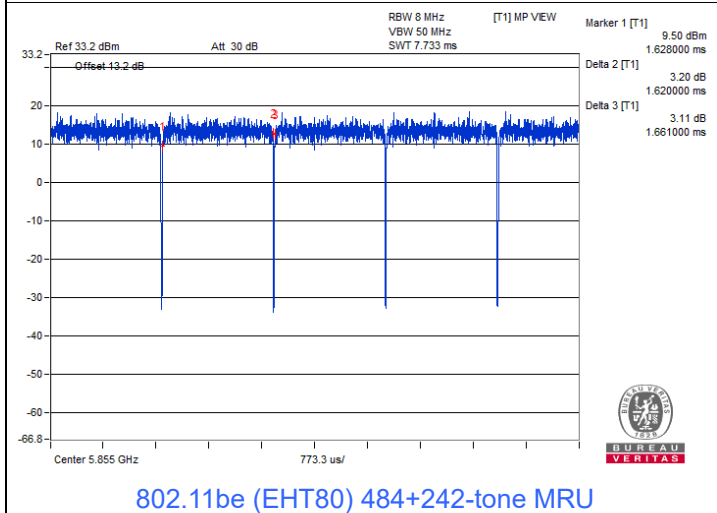
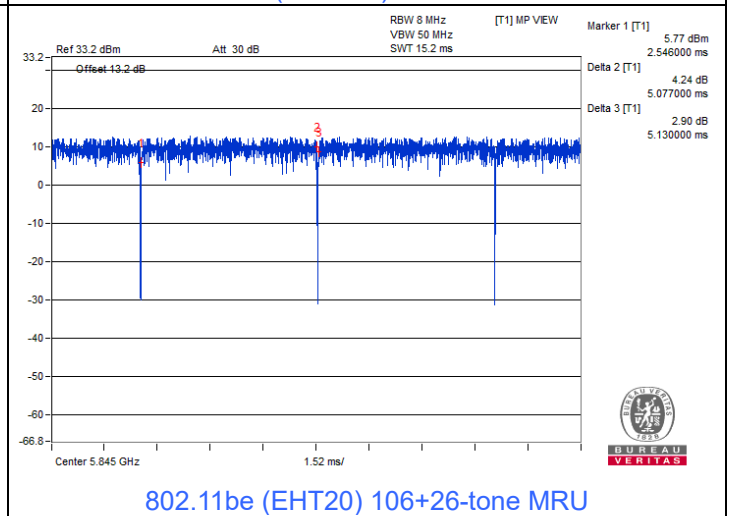
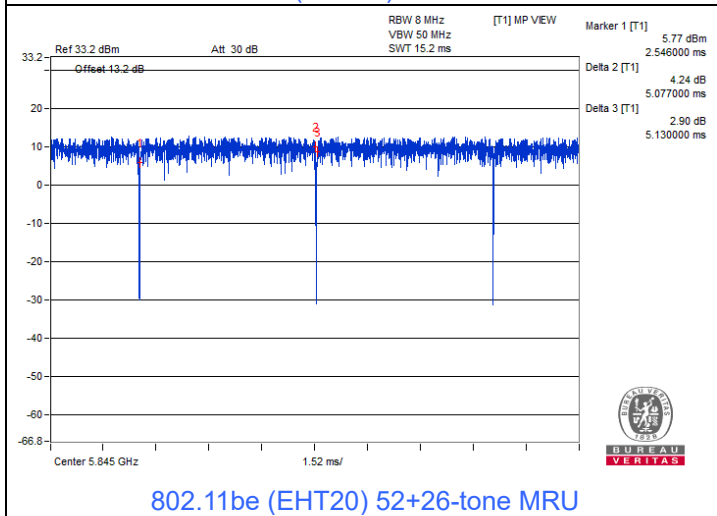
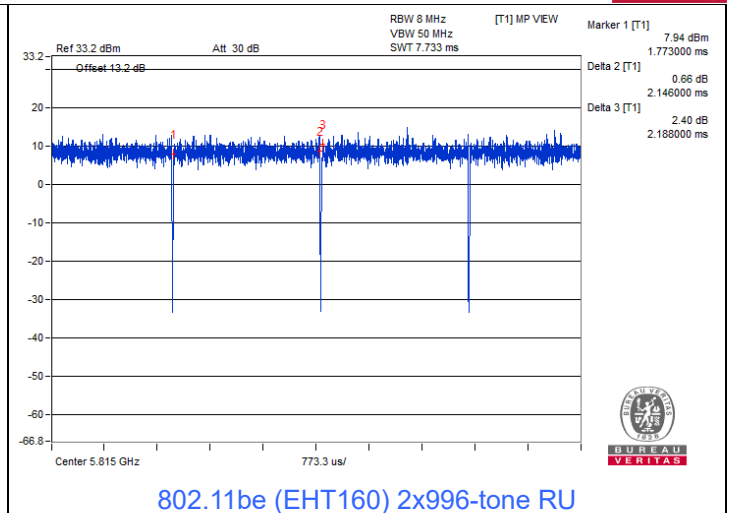
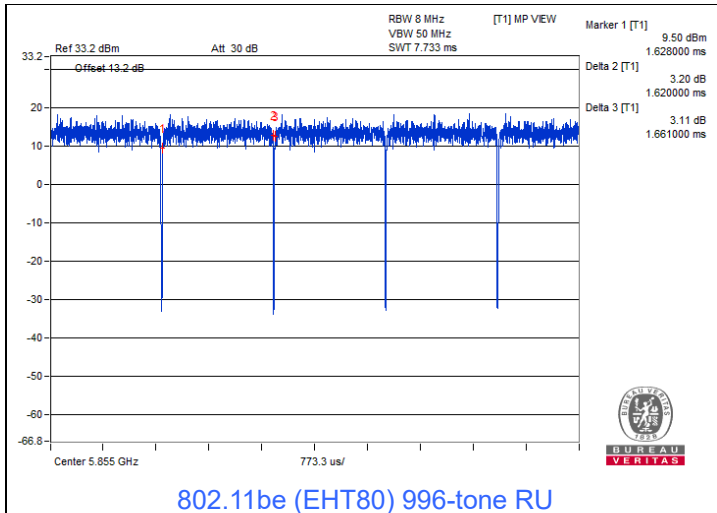


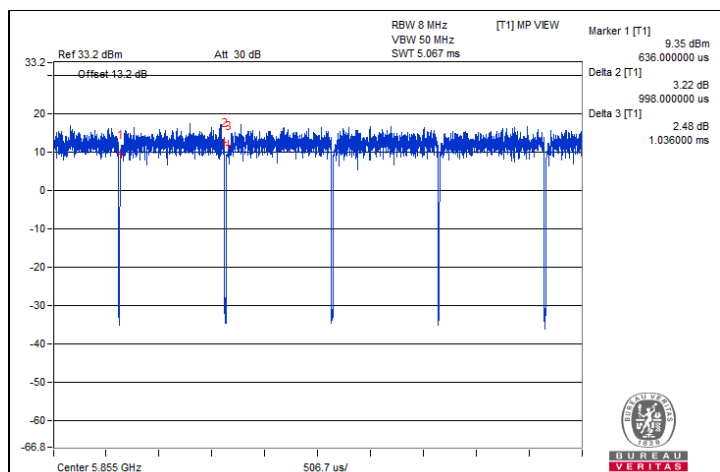
802.11be (EHT40)



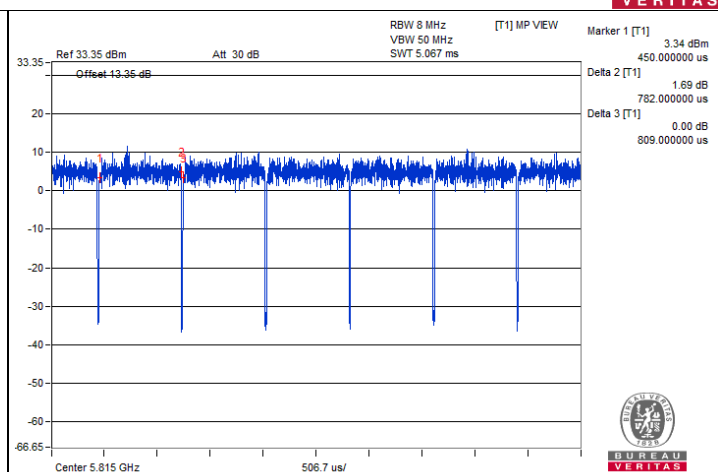
802.11be (EHT80)



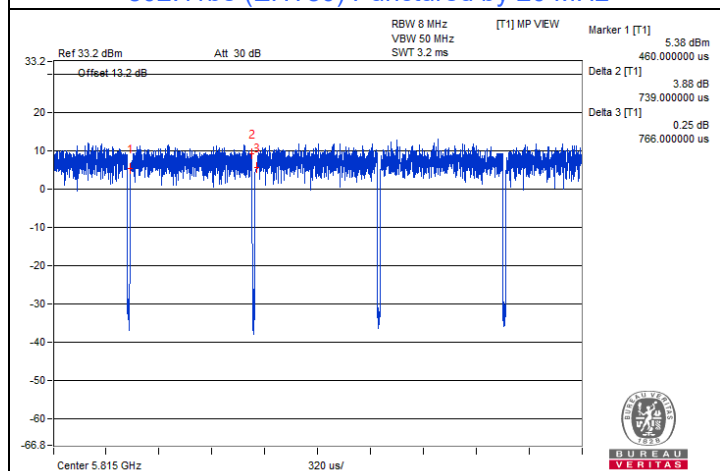




802.11be (EHT80) Punctured by 20 MHz



802.11be (EHT160) Punctured by 20 MHz



802.11be (EHT160) Punctured by 40 MHz

3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	Dell	E6430	N/A	N/A	Supplied by applicant
B	Test Tool	Qualcomm	N/A	N/A	N/A	Supplied by applicant
C	Adapter	Dell	LLA65NS2-01	N/A	N/A	Supplied by applicant
D	Test Tool	Qualcomm	N/A	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.8	NO	1	Supplied by applicant
2	AC Cable	1	1.5	NO	0	Supplied by applicant

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: 2025/8/12

4.2 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance Telegartner	50 ohm	3	2024/11/1	2025/10/31
EMI Test Receiver R&S	ESCS 30	100375	2024/5/20	2025/5/19
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	2024/10/7	2025/10/6
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: 2025/5/6 ~ 2025/5/7

4.3 Unwanted Emissions below 1 GHz

Mode A

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
PXA Signal Analyzer Keysight	N9030A	MY55330160	2025/1/16	2026/1/15
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: 2025/8/16

Mode B

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-361	2024/10/8	2025/10/7
Fix tool for Boresight antenna tower BV	FBA-01	FBA_SIP01	N/A	N/A
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	2025/2/8	2026/2/7
Loop Antenna TESEQ	HLA 6121	63620	2024/10/17	2025/10/16
MXE EMI Receiver Agilent	N9038A	MY50010156	2024/6/5	2025/6/4
Preamplifier EMCI	EMC330N	980852	2025/2/8	2026/2/7
	EMC001340	980142	2025/2/17	2026/2/16
RF Coaxial Cable PEWC	8D	001	2025/2/8	2026/2/7
		966-3-2	2025/2/8	2026/2/7
		966-3-3	2025/2/8	2026/2/7
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2025/5/6

4.4 Unwanted Emissions above 1 GHz

Mode A

Refer to section 4.3 Mode A to get the tested date and information of the instruments.

Mode B

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Fix tool for Boresight antenna tower BV	FBA-01	FBA_SIP01	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-406	2024/11/10	2025/11/9
	BBHA 9170	9170-739	2024/11/10	2025/11/9
MXE EMI Receiver Agilent	N9038A	MY50010156	2024/6/5 2025/6/5	2025/6/4 2026/6/4
Preamplifier EMCI	EMC12630SE	980384	2025/1/14	2026/1/13
	EMC184045SE	980387	2024/8/8 2025/8/7	2025/8/7 2026/8/6
PXA Signal Analyzer Keysight	N9030B	MY57141948	2024/5/20 2025/5/20	2025/5/19 2026/5/19
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-1500	180504	2025/1/18	2026/1/17
	EMC104-SM-SM-2000	180601	2025/1/18	2026/1/17
	EMC104-SM-SM-6000	210201	2025/1/18	2026/1/17
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2025/5/5 ~ 2025/8/8

5 Limits of Test Items

5.1 RF Output Power

Device Category	Limit (Max Average Power)
Indoor access point	EIRP 36 dBm
Subordinate device	EIRP 36 dBm
Client device	EIRP 30 dBm
Note: For all U-NII-4 and U-NII-3 & -4 span channels shall met above EIRP values.	

Per KDB 662911 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 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.

5.3 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	$2400/F(\text{kHz})$	300
0.490 ~ 1.705	$24000/F(\text{kHz})$	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).

5.4 Unwanted Emissions above 1 GHz

- (i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925 GHz.
- (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz.
- (iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

Note:

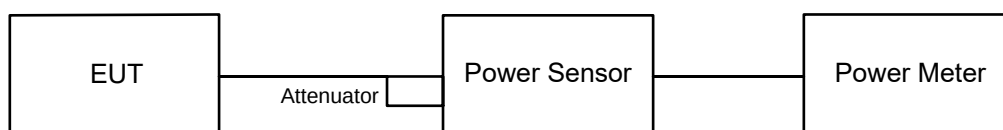
The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup

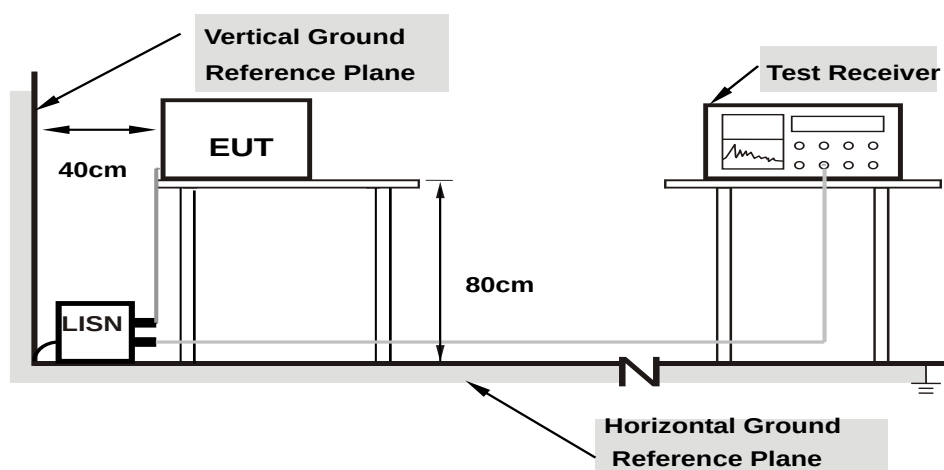


6.1.2 Test Procedure

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 AC Power Conducted Emissions

6.2.1 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).

6.2.2 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.

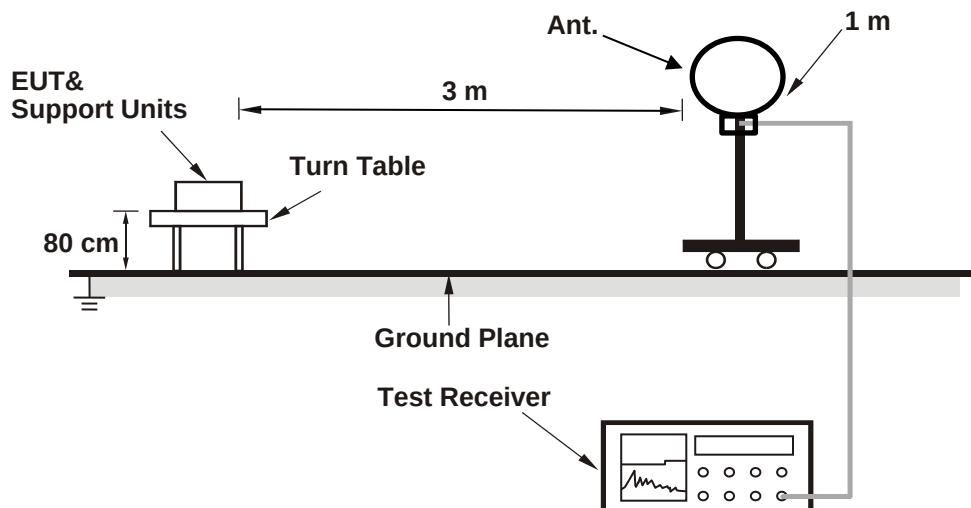
Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

6.3 Unwanted Emissions below 1 GHz

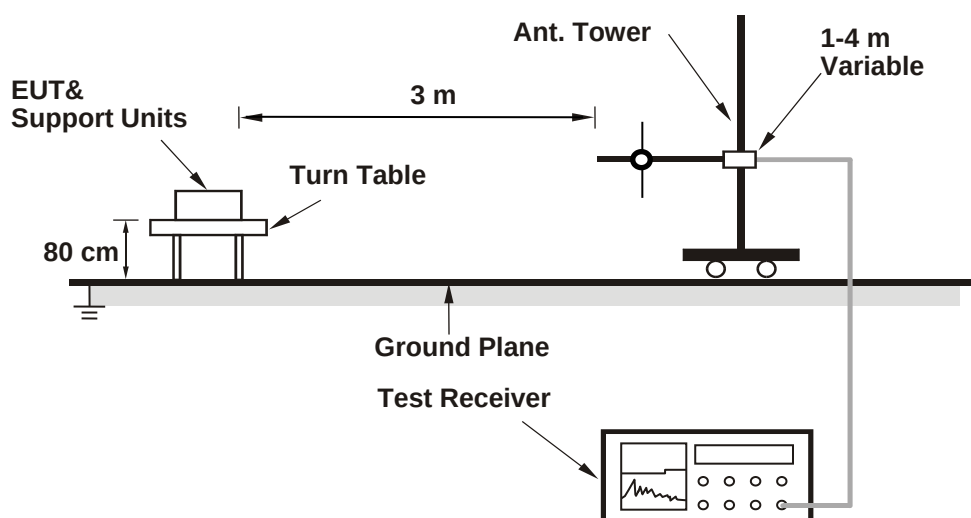
6.3.1 Test Setup

For Radiated Configuration:

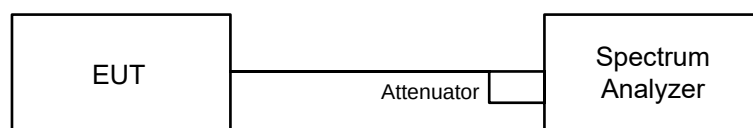
For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For Conducted Configuration:



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

6.3.2 Test Procedure

Radiated versus Conducted Measurement.

The unwanted emission limits in both the restricted and non-restricted bands are based on antenna-port conducted measurements in conjunction with cabinet emissions tests are permitted to demonstrate compliance.

The following steps was performed:

- a. Cabinet emissions measurements. Radiated measurement was performed to ensure that cabinet emissions are below the emission limits. For the cabinet-emission measurements the antenna was replaced by a termination matching the nominal impedance of the antenna.
- b. Conducted tests was performed using equipment that matches the nominal impedance of the antenna assembly used with the EUT.
- c. EIRP calculation. A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. (For emissions in the restricted bands, additional calculations are required to convert EIRP to field strength at the specified distance.) The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater.
- d. EIRP adjustments for multiple outputs. (Follow the procedures specified in FCC KDB Publication 662911)
- e. For all of Radiation emission test

For Radiated emission below 30 MHz

- e-1.1. 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.
- e-1.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- e-1.3. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- e-1.4. 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-1.5. 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

- e-2.1. 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.
- e-2.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- e-2.3. 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.
- e-2.4. 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-2.5. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

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

Radiated versus Conducted Measurement

For Radiated measurement:

The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation).

For Conducted measurement:

The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).

Conducted Unwanted Emission Convert Formula

- a. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
- b. EIRP Level (dBm) = Raw Value(dBm) + Correction Factor(dB)
- c. Correction Factor is directional gain, and the composite gain will be used when signal support the correlated signal.
For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands.
For the band edge the gain for the specific band may have been used.

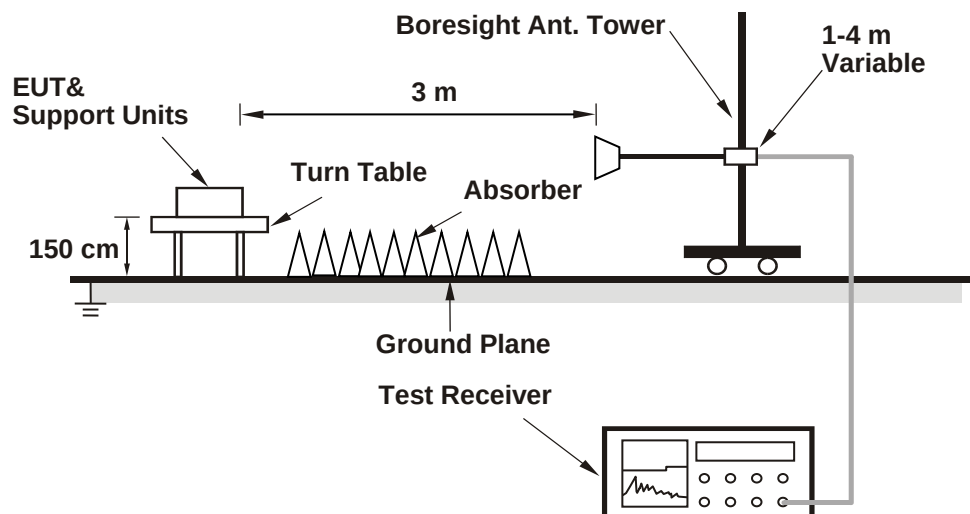
Notes:

1. In restricted bands below 1000 MHz, add upper bound on ground plane reflection:
For frequencies between 30 MHz and 1000 MHz, add 4.7 dB.
2. The conducted emission test was considered some factor to compute test result.

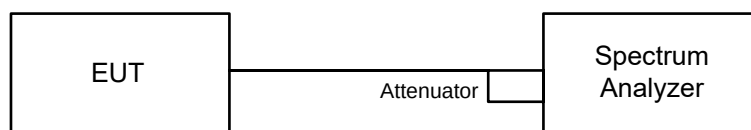
6.4 Unwanted Emissions above 1 GHz

6.4.1 Test Setup

For Radiated Configuration:



For Conducted Configuration:



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

6.4.2 Test Procedure

Radiated versus Conducted Measurement.

The unwanted emission limits in both the restricted and non-restricted bands are based on antenna-port conducted measurements in conjunction with cabinet emissions tests are permitted to demonstrate compliance.

The following steps was performed:

- Cabinet emissions measurements. Radiated measurement was performed to ensure that cabinet emissions are below the emission limits. For the cabinet-emission measurements the antenna was replaced by a termination matching the nominal impedance of the antenna.
- Conducted tests was performed using equipment that matches the nominal impedance of the antenna assembly used with the EUT.
- EIRP calculation. A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. (For emissions in the restricted bands, additional calculations are required to convert EIRP to field strength at the specified distance.) The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater.
- EIRP adjustments for multiple outputs. (Follow the procedures specified in FCC KDB Publication 662911)
- For all of Radiation emission test
 - 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.

- e-3. 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.
- e-4. 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-5. 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:

1. 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.
2. 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.
3. All modes of operation were investigated and the worst-case emissions are reported.

Radiated versus Conducted Measurement
<u>For Radiated measurement:</u> The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation). <u>For Conducted measurement:</u> The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions). <u>For Verified radiated measurement:</u> The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation).
Conducted Unwanted Emission Convert Formula
a. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8 d = measurement distance in 3 meters. b. EIRP Level (dBm) = Raw Value(dBm) + Correction Factor(dB). c. Correction Factor is directional gain, and the composite gain will be used when signal support the correlated signal. For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands. For the band edge the gain for the specific band may have been used. Note: The conducted emission test was considered some factor to compute test result.

7 Test Results of Test Item

7.1 RF Output Power

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Kevin Ko
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802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
169	5845	13.05	13.10	40.601	16.09	5.09	131.08	21.18	30	Pass
173	5865	13.00	13.03	40.044	16.03	5.09	129.282	21.12	30	Pass
177	5885	13.06	13.12	40.742	16.10	5.09	131.535	21.19	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.09 dBi.

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
169	5845	13.72	13.69	46.939	16.72	5.09	151.542	21.81	30	Pass
173	5865	13.60	13.65	46.083	16.64	5.09	148.779	21.73	30	Pass
177	5885	13.03	13.12	40.603	16.09	5.09	131.087	21.18	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.09 dBi.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
167	5835	15.88	15.73	76.137	18.82	5.09	245.808	23.91	30	Pass
175	5875	15.68	15.87	75.62	18.79	5.09	244.139	23.88	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.09 dBi.

802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
171	5855	14.82	14.83	60.748	17.84	5.09	196.125	22.93	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.09 dBi.

802.11be (EHT160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
163	5815	12.42	12.33	34.558	15.39	5.09	111.57	20.48	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.09 dBi.

802.11be (EHT20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
169	5845	4.50	4.99	5.973	7.76	5.09	19.284	12.85	30	Pass
173	5865	4.33	4.81	5.737	7.59	5.09	18.522	12.68	30	Pass
177	5885	4.46	4.90	5.883	7.70	5.09	18.993	12.79	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.09 dBi.

802.11be (EHT20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
169	5845	7.60	8.03	12.108	10.83	5.09	39.091	15.92	30	Pass
173	5865	7.80	7.93	12.234	10.88	5.09	39.497	15.97	30	Pass
177	5885	7.77	8.00	12.294	10.90	5.09	39.691	15.99	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.09 dBi.

802.11be (EHT20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
169	5845	10.18	10.90	22.726	13.57	5.09	73.371	18.66	30	Pass
173	5865	10.22	10.86	22.71	13.56	5.09	73.319	18.65	30	Pass
177	5885	8.90	9.90	17.535	12.44	5.09	56.612	17.53	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.09 dBi.

802.11be (EHT20) 242-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
169	5845	13.86	14.66	53.564	17.29	5.09	172.931	22.38	30	Pass
173	5865	13.90	14.52	52.861	17.23	5.09	170.661	22.32	30	Pass
177	5885	13.33	13.90	46.075	16.63	5.09	148.753	21.72	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.09 dBi.

802.11be (EHT40) 484-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
167	5835	13.93	14.88	55.478	17.44	5.09	179.11	22.53	30	Pass
175	5875	15.23	15.80	71.362	18.53	5.09	230.392	23.62	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.09 dBi.

802.11be (EHT80) 996-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
171	5855	11.52	12.20	30.786	14.88	5.09	99.392	19.97	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.09 dBi.

802.11be (EHT160) 2x996-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
163	5815	11.90	12.30	32.471	15.11	5.09	104.832	20.2	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.09 dBi.

802.11be (EHT20) 52+26-tone MRU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
173	5865	8.66	9.42	16.095	12.07	5.09	51.963	17.16	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.09 dBi.

802.11be (EHT20) 106+26-tone MRU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
173	5865	10.72	11.90	27.291	14.36	5.09	88.109	19.45	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.09 dBi.

802.11be (EHT80) 484+242-tone MRU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
171	5855	14.86	15.22	63.886	18.05	5.09	206.256	23.14	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.09 dBi.

802.11be (EHT160) 996+484-tone MRU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
163	5815	12.12	13.10	36.71	15.65	5.09	118.518	20.74	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.09 dBi.

802.11be (EHT80) Punctured by 20 MHz

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
171	5855	14.68	15.12	61.885	17.92	5.09	199.795	23.01	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.09 dBi.

802.11be (EHT160) Punctured by 20 MHz

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
163	5815	10.93	12.10	28.606	14.56	5.09	92.354	19.65	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.09 dBi.

802.11be (EHT160) Punctured by 40 MHz

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
163	5815	11.12	11.96	28.646	14.57	5.09	92.483	19.66	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.09 dBi.

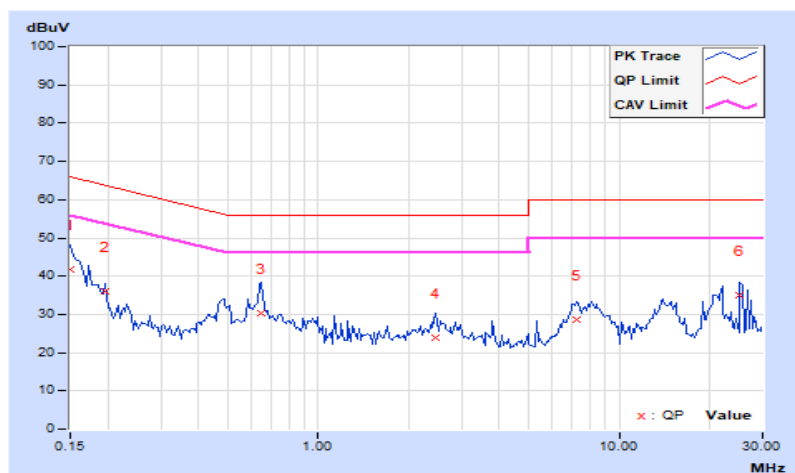
7.2 AC Power Conducted Emissions

RF Mode	802.11be (EHT40)	Channel	CH 167 : 5835 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 63% RH
Tested By	Louis Yang		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.96	31.64	20.51	41.60	30.47	66.00	56.00	-24.40	-25.53
2	0.19687	9.99	25.94	9.98	35.93	19.97	63.74	53.74	-27.81	-33.77
3	0.64609	10.01	20.45	9.51	30.46	19.52	56.00	46.00	-25.54	-26.48
4	2.44531	10.10	13.95	8.35	24.05	18.45	56.00	46.00	-31.95	-27.55
5	7.22266	10.33	18.33	12.80	28.66	23.13	60.00	50.00	-31.34	-26.87
6	25.12500	11.02	23.94	21.90	34.96	32.92	60.00	50.00	-25.04	-17.08

Remarks:

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

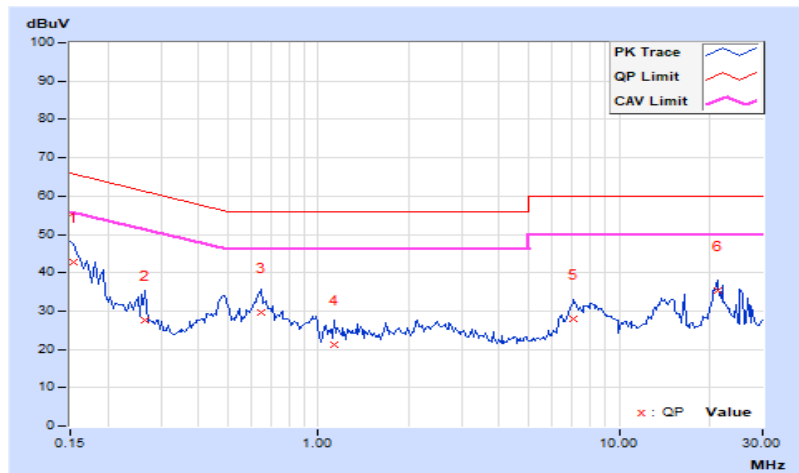


RF Mode	802.11be (EHT40)	Channel	CH 167 : 5835 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 63% RH
Tested By	Louis Yang		

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	0.15391	10.01	32.69	20.04	42.70	30.05	65.79	55.79	-23.09	-25.74
2	0.26719	10.01	17.71	-0.19	27.72	9.82	61.20	51.20	-33.48	-41.38
3	0.64609	10.02	19.46	8.34	29.48	18.36	56.00	46.00	-26.52	-27.64
4	1.12500	10.06	11.05	3.95	21.11	14.01	56.00	46.00	-34.89	-31.99
5	7.08203	10.29	17.78	11.36	28.07	21.65	60.00	50.00	-31.93	-28.35
6	21.16797	10.79	24.41	20.44	35.20	31.23	60.00	50.00	-24.80	-18.77

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



7.3 Unwanted Emissions below 1 GHz

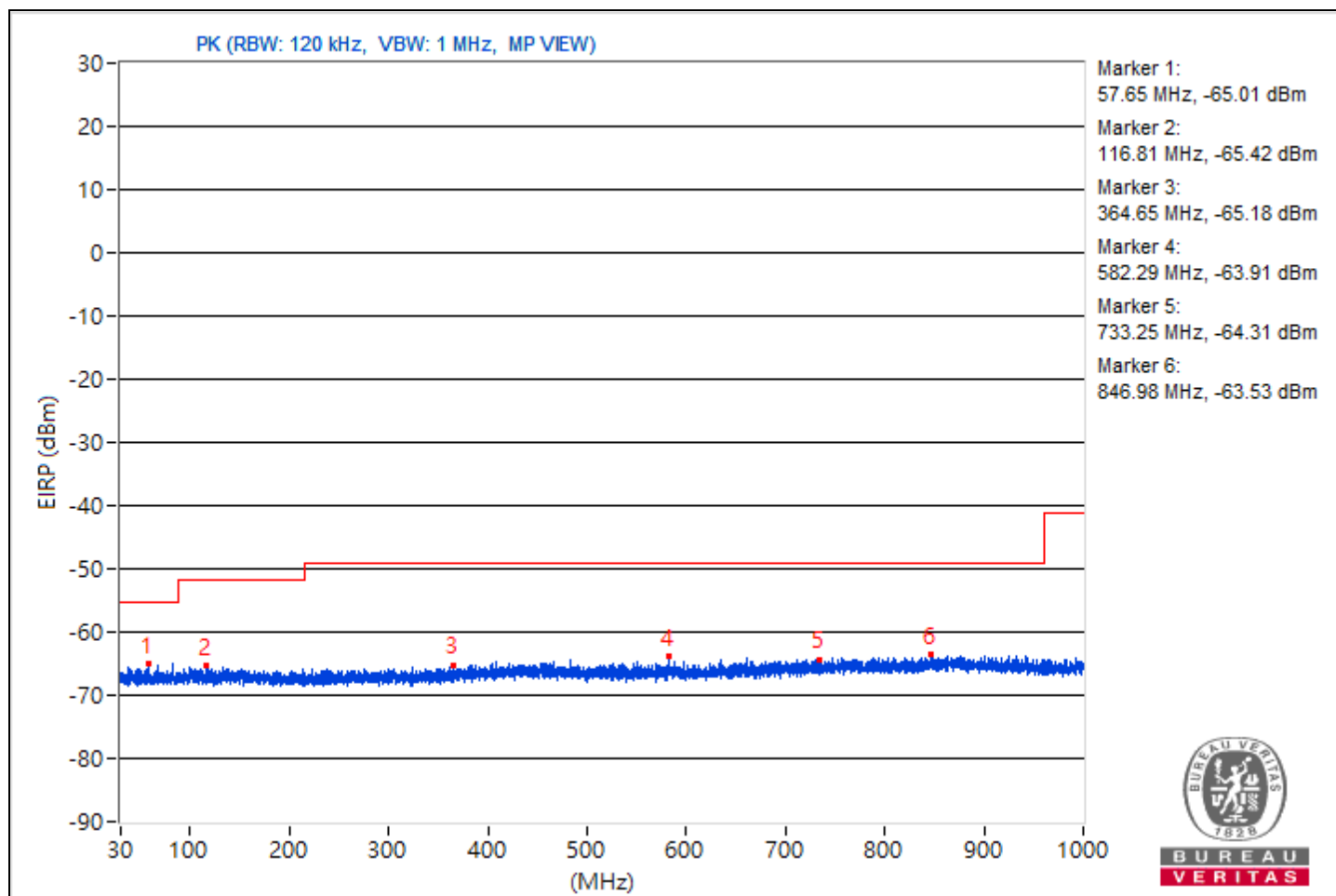
Mode A

RF Mode	802.11be (EHT40)	Channel	CH 167 : 5835 MHz
Frequency Range	30 MHz ~ 1 GHz	Environmental Conditions	26°C, 66% RH
Tested By	Dolly Chung		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	57.65	30.25 PK	40	-9.75	-81.61	-80.28	12.87	-65.01
2	116.81	29.84 PK	43.5	-13.66	-82.14	-80.6	12.87	-65.42
3	364.65	30.08 PK	46	-15.92	-80.29	-81.99	12.87	-65.18
4	582.29	31.35 PK	46	-14.65	-80.62	-79.1	12.87	-63.91
5	733.25	30.95 PK	46	-15.05	-79.02	-81.79	12.87	-64.31
6	846.98	31.73 PK	46	-14.27	-78.21	-81.08	12.87	-63.53

Notes:

1. Margin value = Emission Level - Limit value
2. 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.



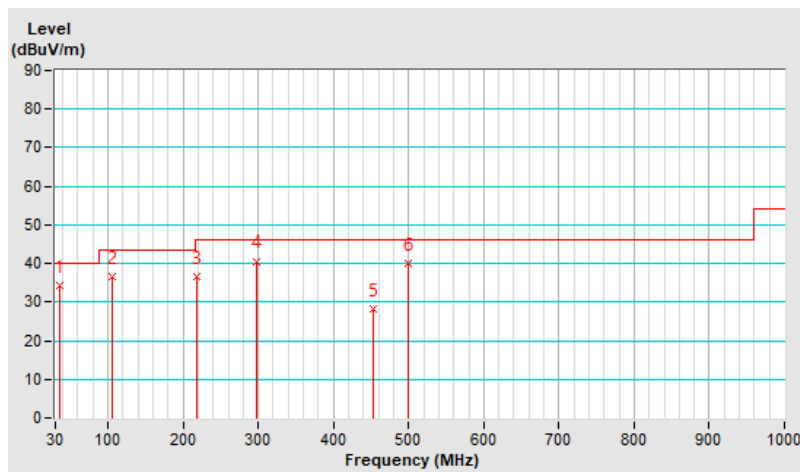
Mode B

RF Mode	802.11be (EHT40)	Channel	CH 167 : 5835 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 72% RH
Tested By	Louis Yang		

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	35.90	34.3 QP	40.0	-5.7	1.98 H	288	47.6	-13.3
2	106.00	36.7 QP	43.5	-6.8	2.04 H	335	52.5	-15.8
3	217.50	36.7 QP	46.0	-9.3	1.68 H	153	52.8	-16.1
4	297.60	40.6 QP	46.0	-5.4	1.44 H	165	52.6	-12.0
5	452.40	28.1 QP	46.0	-17.9	3.16 H	352	36.0	-7.9
6	500.20	40.1 QP	46.0	-5.9	1.64 H	165	47.1	-7.0

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.

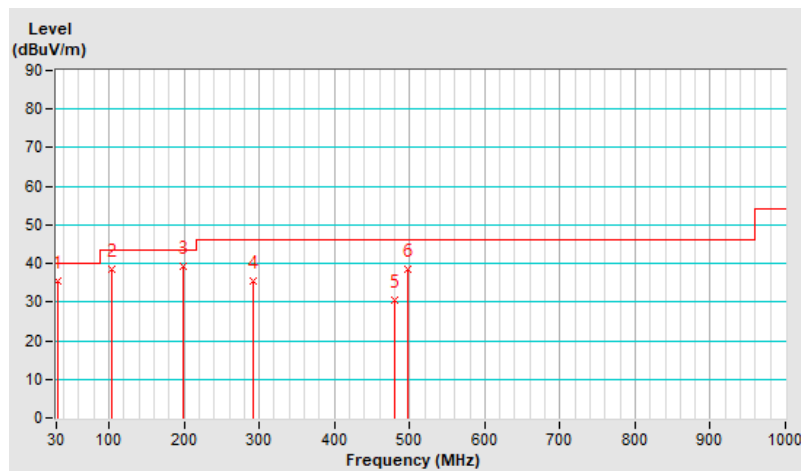


RF Mode	802.11be (EHT40)	Channel	CH 167 : 5835 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 72% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.90	35.4 QP	40.0	-4.6	2.93 V	280	48.7	-13.3
2	104.50	38.5 QP	43.5	-5.0	2.15 V	348	54.5	-16.0
3	199.60	39.3 QP	43.5	-4.2	1.59 V	159	55.1	-15.8
4	292.80	35.5 QP	46.0	-10.5	1.00 V	189	47.7	-12.2
5	480.70	30.5 QP	46.0	-15.5	2.09 V	170	37.8	-7.3
6	497.60	38.5 QP	46.0	-7.5	1.66 V	269	45.5	-7.0

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.



7.4 Unwanted Emissions above 1 GHz

Mode A

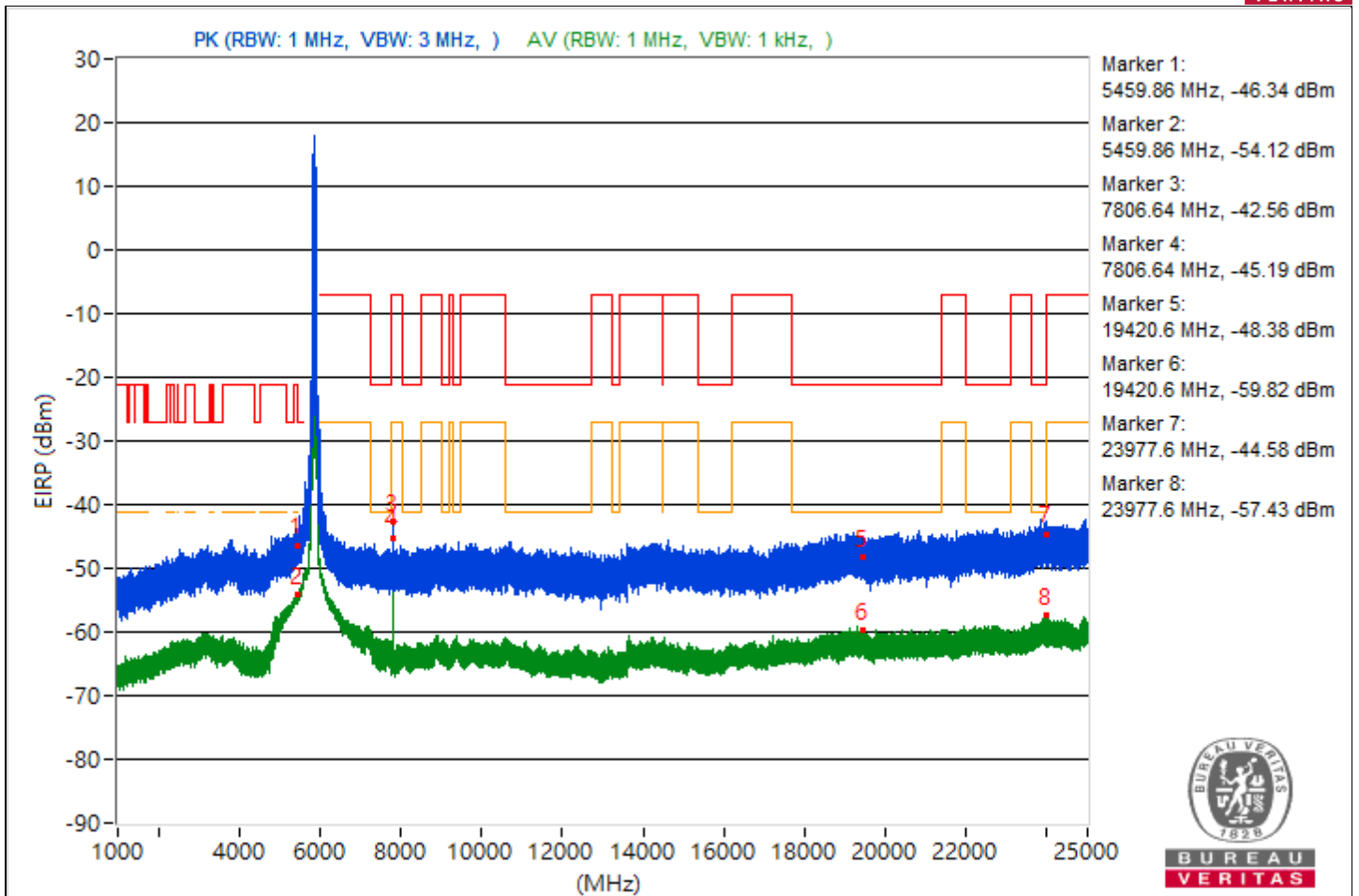
Conducted Unwanted Emissions

RF Mode	802.11be (EHT80) 484+242-tone MRU	Channel	CH 171 : 5855 MHz
Frequency Range	1 GHz ~ 40 GHz	Environmental Conditions	26°C, 66% RH
Tested By	Dolly Chung		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5459.86	48.92 PK	74	-25.08	-58.05	-57.04	8.17	-46.34
2	5459.86	41.14 AV	54	-12.86	-66.07	-64.64	8.17	-54.12
3	#7806.64	52.7 PK	88.26	-35.56	-61.13	-51.15	8.17	-42.56
4	#7806.64	50.07 AV	68.26	-18.19	-74.35	-53.39	8.17	-45.19
5	19420.6	46.88 PK	74	-27.12	-58.28	-61.38	8.17	-48.38
6	19420.6	35.44 AV	54	-18.56	-69.33	-73.76	8.17	-59.82
7	23977.6	50.68 PK	74	-23.32	-54.74	-57.1	8.17	-44.58
8	23977.6	37.83 AV	54	-16.17	-69.19	-68.09	8.17	-57.43
9	39639.91	43.3 PK	74	-30.7	-65.54	-61.6	8.17	-51.96
10	39639.91	31.53 AV	54	-22.47	-77.57	-73.28	8.17	-63.73

Notes:

1. Margin value = Emission Level - Limit value
2. " # ": The radiated frequency is out of the restricted band.



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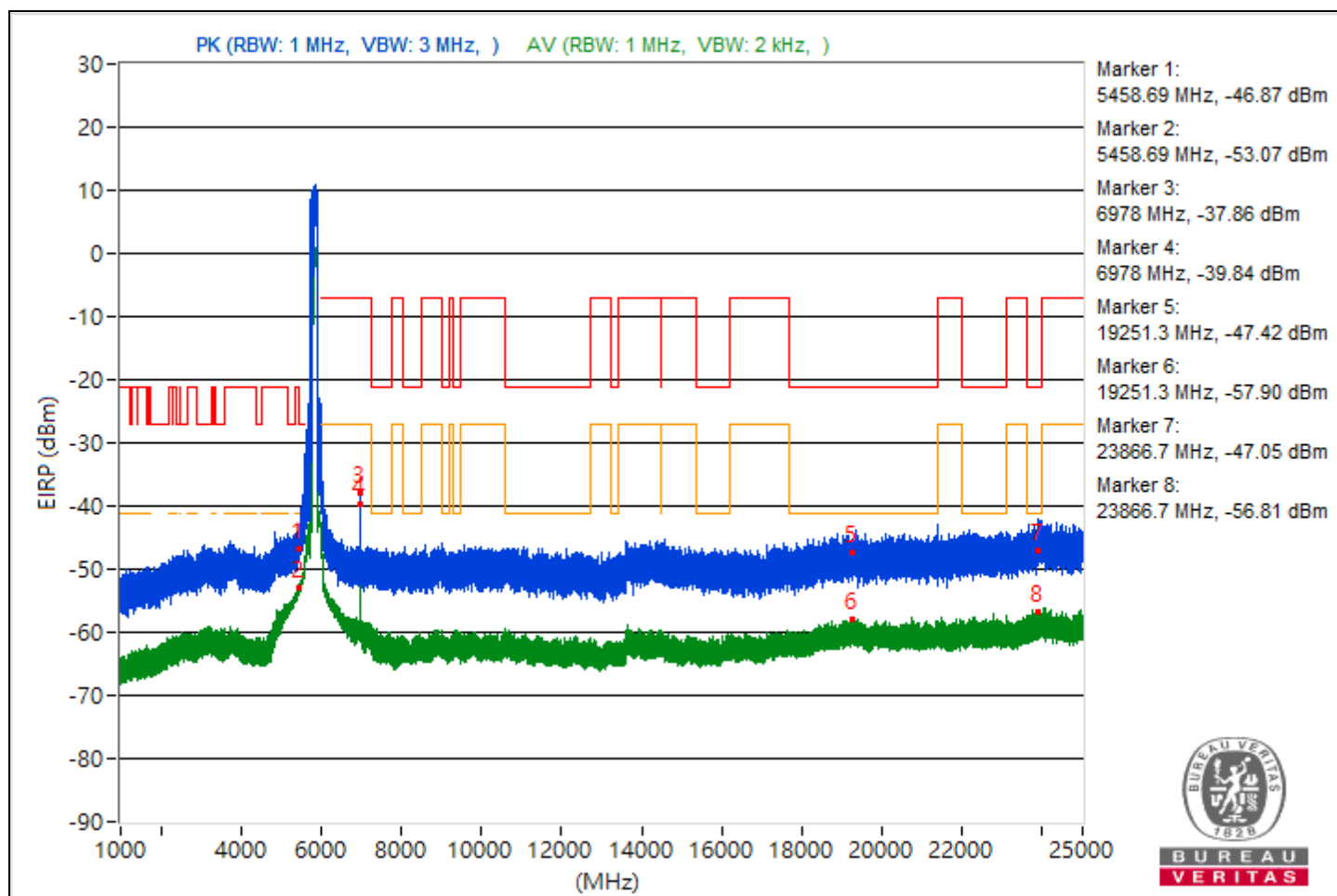
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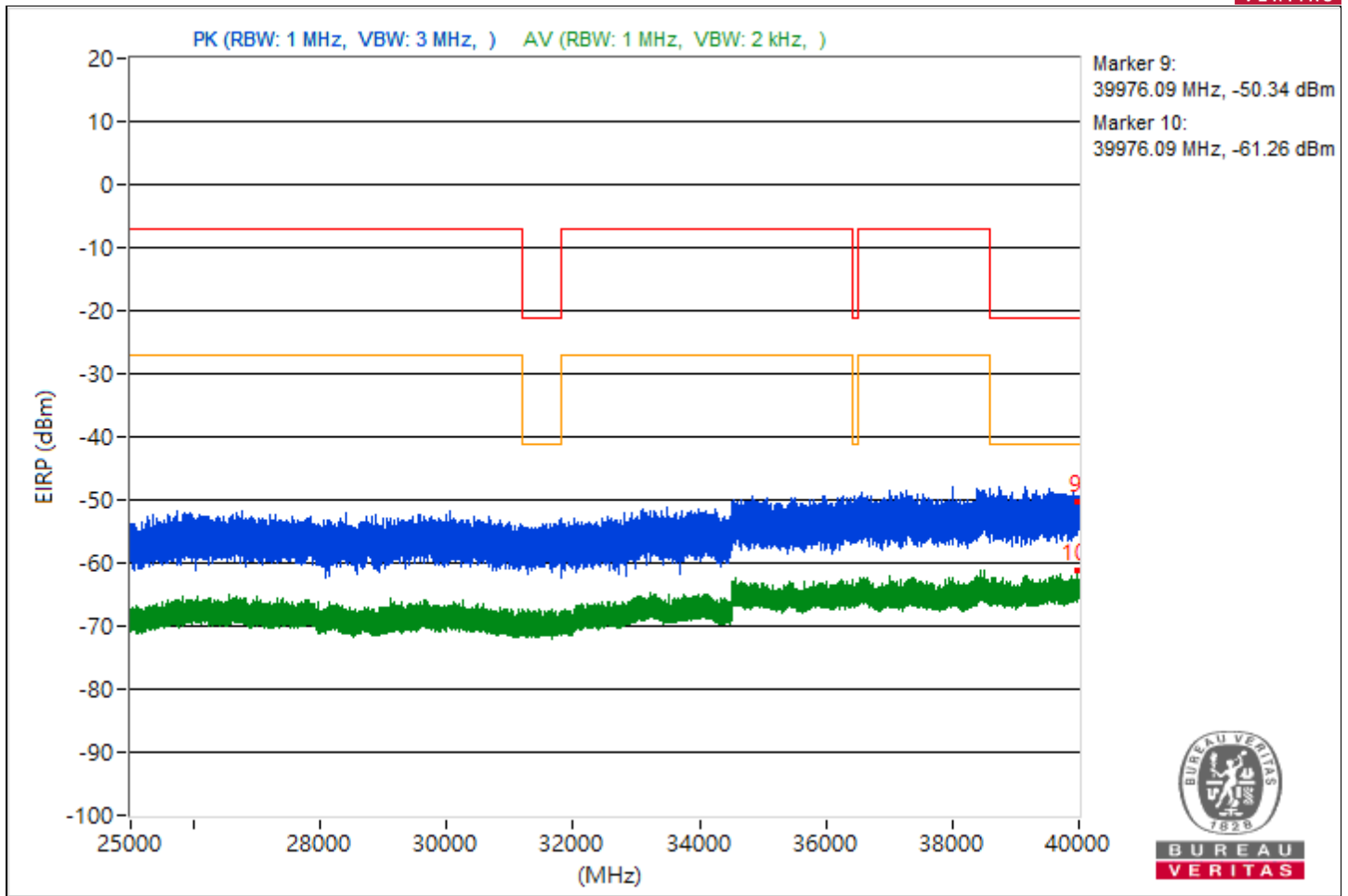
RF Mode	802.11be (EHT160) Punctured by 20 MHz	Channel	CH 163 : 5815 MHz
Frequency Range	1 GHz ~ 40 GHz	Environmental Conditions	26°C, 66% RH
Tested By	Dolly Chung		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5458.69	48.39 PK	74	-25.61	-57.11	-59.25	8.17	-46.87
2	5458.69	42.19 AV	54	-11.81	-63.94	-64.59	8.17	-53.07
3	#6978	57.4 PK	88.26	-30.86	-52.58	-47.11	8.17	-37.86
4	#6978	55.42 AV	68.26	-12.84	-54.72	-49.05	8.17	-39.84
5	19251.3	47.84 PK	74	-26.16	-58.88	-58.33	8.17	-47.42
6	19251.3	37.36 AV	54	-16.64	-71.02	-67.75	8.17	-57.9
7	23866.7	48.21 PK	74	-25.79	-58.38	-58.08	8.17	-47.05
8	23866.7	38.45 AV	54	-15.55	-66.35	-70.63	8.17	-56.81
9	39976.09	44.92 PK	74	-29.08	-61.51	-61.52	8.17	-50.34
10	39976.09	34 AV	54	-20	-71.35	-73.9	8.17	-61.26

Notes:

1. Margin value = Emission Level - Limit value
2. " # ": The radiated frequency is out of the restricted band.





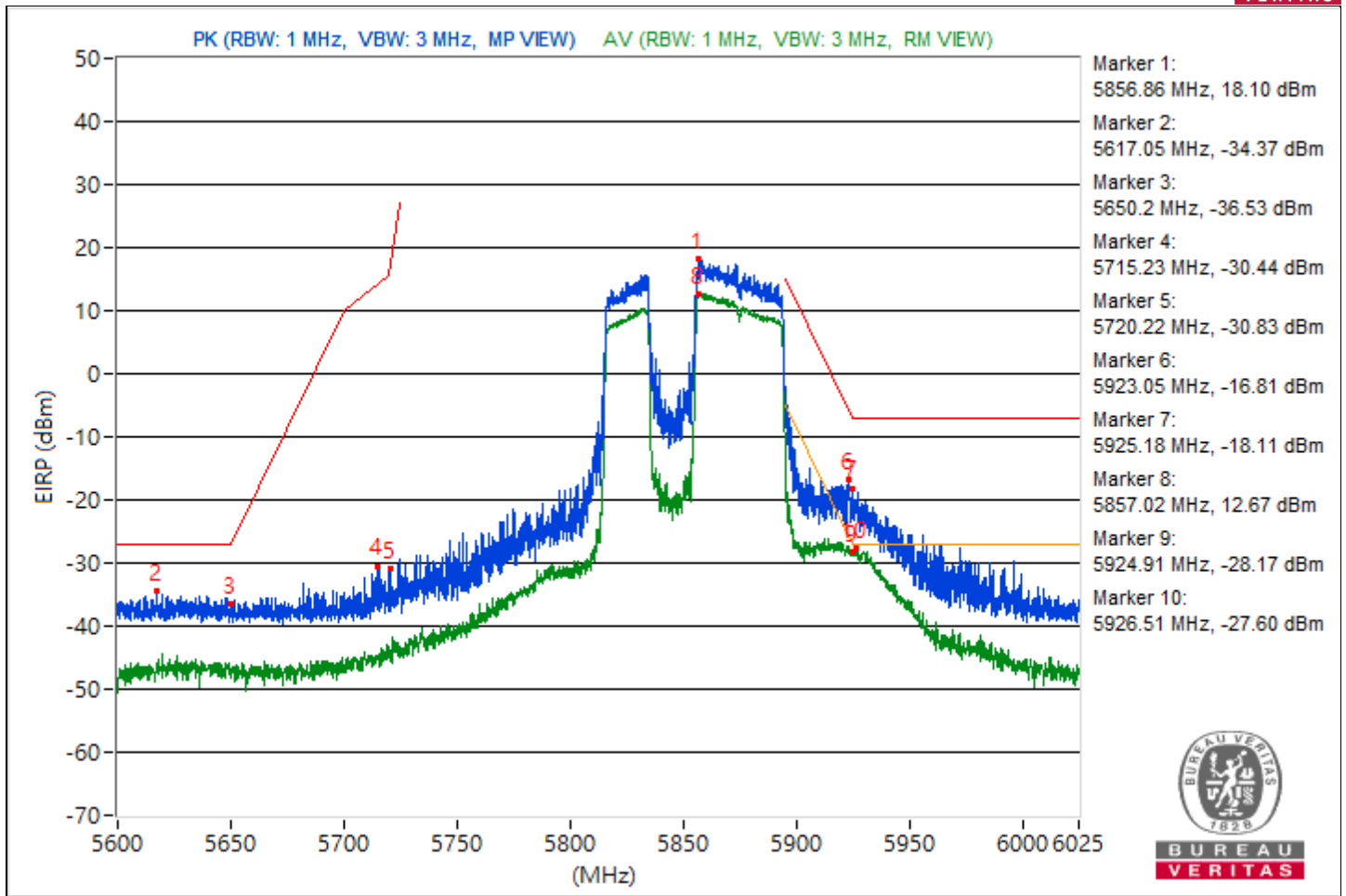
Conducted Band Edges

RF Mode	802.11be (EHT80) 484+242-tone MRU	Channel	CH 171 : 5855 MHz
Frequency Range	5.6 GHz ~ 6.025 GHz	Environmental Conditions	26°C, 66% RH
Tested By	Dolly Chung		

Conducted Band Edge								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*5856.86	113.36 PK			5.57	8.05	8.1	18.1
2	#5617.05	60.89 PK	68.26	-7.37	-44.11	-47.48	8.1	-34.37
3	#5650.2	58.73 PK	68.41	-9.68	-48.47	-46.93	8.1	-36.53
4	#5715.23	64.82 PK	109.52	-44.7	-48.76	-38.98	8.1	-30.44
5	#5720.22	64.43 PK	111.37	-46.94	-47.23	-39.62	8.1	-30.83
6	#5923.05	78.45 PK	89.69	-11.24	-36.71	-25.2	8.1	-16.81
7	#5925.18	77.15 PK	88.26	-11.11	-38.12	-26.5	8.1	-18.11
8	*5857.02	107.93 AV			0.19	2.6	8.1	12.67
9	#5924.91	67.09 AV	68.32	-1.23	-43.2	-37.25	8.1	-28.17
10	#5926.51	67.66 AV	68.26	-0.6	-42.95	-36.6	8.1	-27.6

Notes:

1. Margin value = Emission Level - Limit value
2. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
3. " # ": The radiated frequency is out of the restricted band.

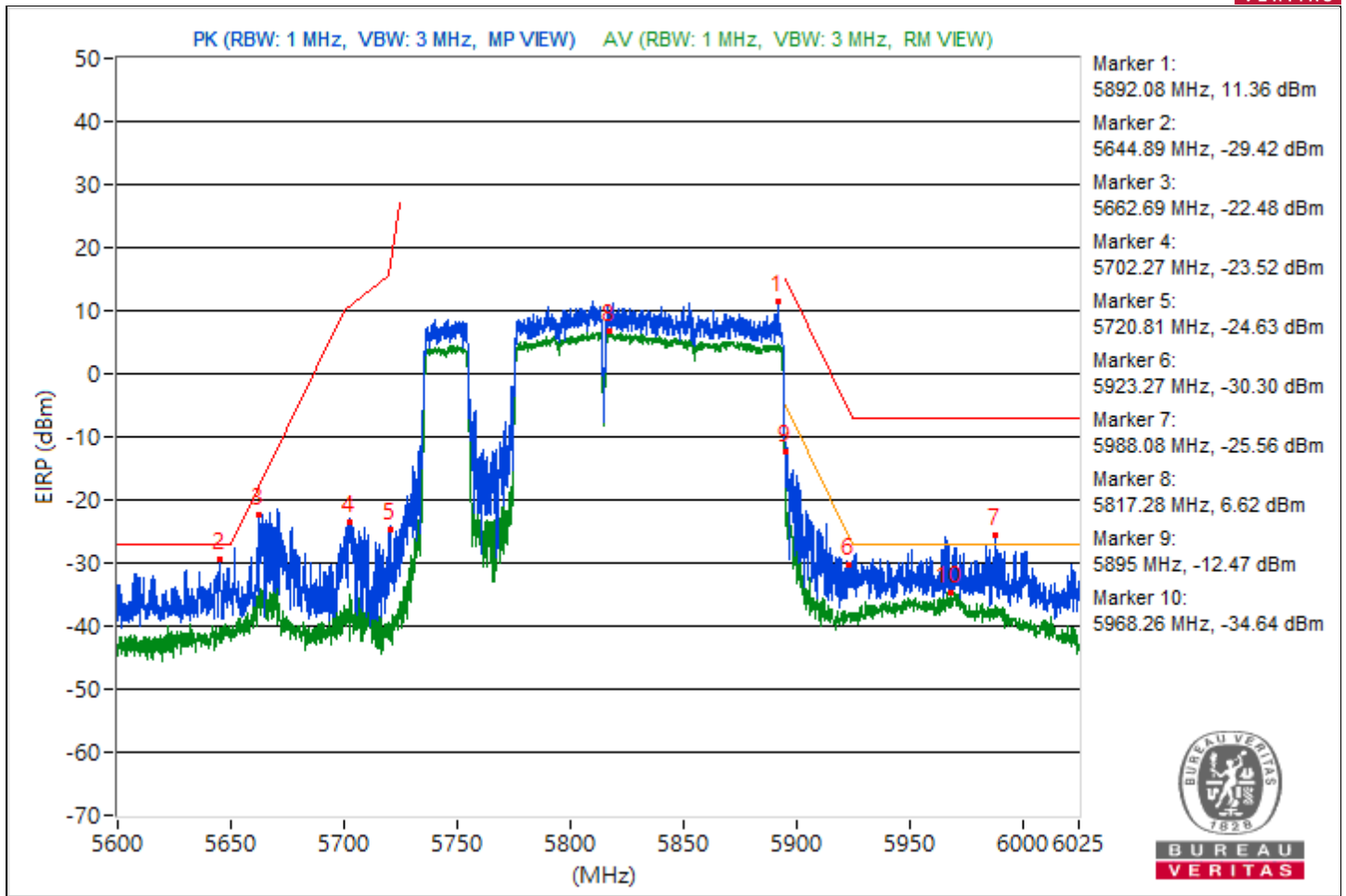


RF Mode	802.11be (EHT160) Punctured by 20 MHz	Channel	CH 163 : 5815 MHz
Frequency Range	5.6 GHz ~ 6.025 GHz	Environmental Conditions	26°C, 66% RH
Tested By	Dolly Chung		

Conducted Band Edge								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*5892.08	106.62 PK			-3.24	2.16	8.1	11.36
2	#5644.89	65.84 PK	68.26	-2.42	-44.85	-38.41	8.1	-29.42
3	#5662.69	72.78 PK	77.65	-4.87	-33.96	-33.26	8.1	-22.48
4	#5702.27	71.74 PK	105.89	-34.15	-32.99	-37.33	8.1	-23.52
5	#5720.81	70.63 PK	112.7	-42.07	-37.19	-34.65	8.1	-24.63
6	#5923.27	64.96 PK	89.53	-24.57	-39.15	-46.35	8.1	-30.3
7	#5988.08	69.7 PK	88.26	-18.56	-42.11	-34.33	8.1	-25.56
8	*5817.28	101.88 AV			-4.29	-4.69	8.1	6.62
9	#5895	82.79 AV	90.26	-7.47	-23.73	-23.44	8.1	-12.47
10	#5968.26	60.62 AV	68.26	-7.64	-44.42	-47.69	8.1	-34.64

Notes:

1. Margin value = Emission Level - Limit value
2. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
3. " # ": The radiated frequency is out of the restricted band.



Mode B

RF Mode	802.11be (EHT80) 484+242-tone MRU	Channel	CH 171 : 5855 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	26 °C, 71% RH
Tested By	Louis Yang		

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	11710.00	45.9 PK	74.0	-28.1	1.00 H	172	34.9	11.0
2	11710.00	35.4 AV	54.0	-18.6	1.00 H	172	24.4	11.0
3	#17565.00	45.7 PK	88.2	-42.5	1.25 H	227	27.0	18.7
4	#17565.00	34.4 AV	68.2	-33.8	1.25 H	227	15.7	18.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	11710.00	45.6 PK	74.0	-28.4	1.16 V	203	34.6	11.0
2	11710.00	35.6 AV	54.0	-18.4	1.16 V	203	24.6	11.0
3	#17565.00	46.9 PK	88.2	-41.3	1.17 V	210	28.2	18.7
4	#17565.00	33.8 AV	68.2	-34.4	1.17 V	210	15.1	18.7

Remarks:

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

RF Mode	802.11be (EHT160) Punctured by 20 MHz	Channel	CH 163 : 5815 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=2 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	26 °C, 71% RH
Tested By	Louis Yang		

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	11630.00	46.3 PK	74.0	-27.7	1.00 H	179	35.2	11.1
2	11630.00	35.6 AV	54.0	-18.4	1.00 H	179	24.5	11.1
3	#17445.00	46.4 PK	88.2	-41.8	1.29 H	227	29.0	17.4
4	#17445.00	35.2 AV	68.2	-33.0	1.29 H	227	17.8	17.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	11630.00	46.2 PK	74.0	-27.8	1.12 V	192	35.1	11.1
2	11630.00	35.8 AV	54.0	-18.2	1.12 V	192	24.7	11.1
3	#17445.00	46.8 PK	88.2	-41.4	1.16 V	183	29.4	17.4
4	#17445.00	34.6 AV	68.2	-33.6	1.16 V	183	17.2	17.4

Remarks:

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

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.

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

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