

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFCDVB-WTW-P25040433-7

FCC ID: QYLBE200NG

Product: 2x2 Wi-Fi and BT, M.2 2230 adapter card

Brand: Getac

Model No.: BE200NGW

Received Date: 2025/4/21

Test Date: 2025/5/14 ~ 2025/6/20

Issued Date: 2025/7/9

Applicant: Getac Technology Corporation.

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

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FCC Registration / 788550 / TW0003

Designation Number:

Approved by: _____

Jeremy Lin

Jeremy Lin / Project Engineer

, Date: _____

2025/7/9

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Prepared by : Gina Liu / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFCDVB-WTW-P25040433-7	Original release.	2025/7/9

1 Certificate

Product: 2x2 Wi-Fi and BT, M.2 2230 adapter card

Brand: Getac

Test Model: BE200NGW

Sample Status: Engineering sample

Applicant: Getac Technology Corporation.

Test Date: 2025/5/14 ~ 2025/6/20

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

Measurement ANSI C63.10-2013

procedure: KDB 987594 D02 U-NII 6 GHz EMC Measurement v03

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)(7) 15.407(a)(8)	Maximum RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(7) 15.407(a)(8)	Maximum Power Spectral Density	N/A	Refer to Note
15.407(a)(11)	Emission Bandwidth	N/A	Refer to Note
---	Occupied Bandwidth	N/A	Refer to Note
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -16.47 dB at 0.40180 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -2.4 dB at 74.62 MHz
15.407(b)(6) 15.407(b)(10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -6.0 dB at 12050.00 MHz
15.407(b)(7)	In-Band Emission Mask	N/A	Refer to Note
15.407(d)(6)	Contention-based Protocol	N/A	Refer to Note
15.407(a)(7)	APC (Automatic Power Control) and Proper Power Adjustment	N/A	Refer to Note
15.203	Antenna Requirement	Pass	Antenna connector is MHF-4 not a standard connector.

Notes:

1. Only test item of RF Output Power, Conducted Emissions and Unwanted Emissions were performed for this report. Other testing data please refer to module report No.: 230526-08.TR104, 230526-08.TR87, 230526-08.TR19 and 230526-08.TR20 (Brand: Intel® BE200NGW, Model: BE200NGW).
2. 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) (±)
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.90 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.44 dB
	30 MHz ~ 1 GHz	2.95 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 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	2x2 Wi-Fi and BT, M.2 2230 adapter card
Brand	Getac
Test Model	BE200NGW
Host Marketing Name (HMN)	V120,V120Y(Y= 10 characters, Y can be 0 to 9, A to Z, a to z, "/", "\", "-", "_" or blank for marketing purpose)
Status of EUT	Engineering sample
Power Supply Rating	End-product: 19.0 Vdc (from adapter) 7.74 / 11.61 Vdc (from battery)
Modulation Type	1024QAM for OFDMA in 11ax mode 4096QAM for OFDMA in 11be mode
Modulation Technology	OFDMA
Transfer Rate	Up to 2401.9 Mbps (11ax mode) Up to 5764.8 Mbps (11be mode)
Operating Frequency	5.955 GHz ~ 6.415 GHz 6.425 GHz ~ 6.525 GHz 6.535 GHz ~ 6.865 GHz 6.875 GHz ~ 7.115 GHz
Number of Channel	802.11ax (HE20), 802.11be (EHT20):59 802.11ax (HE40), 802.11be (EHT40):29 802.11ax (HE80), 802.11be (EHT80):14 802.11ax (HE160), 802.11be (EHT160):7 802.11be (EHT320):6
Output Power	under control of a low-power indoor AP 5.955 GHz ~ 6.415 GHz : EIRP: 38.107 mW (15.81 dBm) 6.425 GHz ~ 6.525 GHz : EIRP: 38.194 mW (15.82 dBm) 6.535 GHz ~ 6.865 GHz : EIRP: 36.605 mW (15.64 dBm) 6.875 GHz ~ 7.115 GHz : EIRP: 33.42 mW (15.24 dBm) under control of a standard-power AP 5.955 GHz ~ 6.415 GHz : EIRP: 38.107 mW (15.81 dBm) 6.535 GHz ~ 6.865 GHz : EIRP: 37.114 mW (15.70dBm)
Equipment Class	6CD: 15E 6 GHz Dual client

Note:

1. The EUT is authorized for use in specific End-product. Please refer to below for more details.

Product	Brand	Model	Difference
Notebook	Getac	V120	Marketing purpose
		V120Y(Y= 10 characters, Y can be 0 to 9, A to Z, a to z, "/", "\", "-", "_" or blank for marketing purpose)	

2. The End-product contains following accessory devices.

Item	Brand	Model	Specification
Battery 1	Getac	BP2S1P4070P	Power Rating : Rating: 7.74Vdc , 3800mAh, 29.42Wh Typical Capacity: 4070mAh, 31.51Wh
Battery 2	Getac	BP3S1P4070P	Power Rating : Rating: 11.61Vdc , 3800mAh, 44.12Wh Typical Capacity: 4070mAh, 47.26Wh
AC Adapter	FSP	FSP065-RBBN3	AC Input : 100-240 Vac ; 50-60 Hz ; 1.5 A DC Output : 19.0Vdc ; 3.42A, 65.0W DC Output Cable : 1.45M / 1core AC Power Cord : 1.75M
Touch Pen	Getac	340GA8900001	-

*After the pretesting, battery 1 mode is found to be the worse case and therefore had been chosen for final test.

3. 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	2.4GHz 2400-2483.5 MHz	5.2GHz 5150-5250 MHz	5.3GHz 5250-5350 MHz	5.6GHz 5470-5725 MHz	5.8GHz 5725-5850 MHz	5.9GHz 5850-5895 MHz	6.2GHz 5925-6425 MHz	6.5GHz 6425-6525 MHz	6.7GHz 6525-6875 MHz	7.0GHz 6875-7125 MHz	Antenna Type	Connector Type
Main	2.23	2.25	2.25	2.48	2.48	1.44	2.4	2.28	2.28	1.57	PIFA	MHF-4
Aux.	2.48	1.67	1.67	2.12	2.12	1.42	2.41	2.41	1.99	1.82	PIFA	MHF-4

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

2. The EUT incorporates a MIMO function:

6 GHz Band		
Modulation Mode	TX & RX Configuration	
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
802.11be (EHT320)	2TX	2RX

Note:

- The modulation and bandwidth are similar for 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, 320 MHz). Therefore, the investigated worst case is the representative mode in test report.

3.3 Channel List

U-NII-5:

24 channels are provided for 802.11ax (HE20), 802.11be (EHT20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	5955 MHz	5	5975 MHz	9	5995 MHz	13	6015 MHz
17	6035 MHz	21	6055 MHz	25	6075 MHz	29	6095 MHz
33	6115 MHz	37	6135 MHz	41	6155 MHz	45	6175 MHz
49	6195 MHz	53	6215 MHz	57	6235 MHz	61	6255 MHz
65	6275 MHz	69	6295 MHz	73	6315 MHz	77	6335 MHz
81	6355 MHz	85	6375 MHz	89	6395 MHz	93	6415 MHz

12 channels are provided for 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	5965 MHz	11	6005 MHz	19	6045 MHz	27	6085 MHz
35	6125 MHz	43	6165 MHz	51	6205 MHz	59	6245 MHz
67	6285 MHz	75	6325 MHz	83	6365 MHz	91	6405 MHz

6 channels are provided for 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
7	5985 MHz	23	6065 MHz	39	6145 MHz	55	6225 MHz
71	6305 MHz	87	6385 MHz				

3 channels are provided for 802.11ax (HE160), 802.11be (EHT160):

Channel	Frequency	Channel	Frequency	Channel	Frequency
15	6025 MHz	47	6185 MHz	79	6345 MHz

2 channels are provided for 802.11be (EHT320):

Channel	Frequency	Channel	Frequency
31	6105 MHz	63	6265 MHz

U-NII-6: (under control of a low-power indoor AP only)

5 channels are provided for 802.11a, 802.11ax (HE20), 802.11be (EHT20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
97	6435 MHz	101	6455 MHz	105	6475 MHz	109	6495 MHz
113	6515 MHz						

3 channels are provided for 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency	Channel	Frequency
99	6445 MHz	107	6485 MHz	*115	6525 MHz

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

Channel	Frequency
103	6465 MHz

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

Channel	Frequency
*111	6505 MHz

1 channel is provided for 802.11be (EHT320):

Channel	Frequency
*95	6425 MHz

U-NII-7:

17 channels are provided for 802.11a, 802.11ax (HE20), 802.11be (EHT20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
117	6535 MHz	121	6555 MHz	125	6575 MHz	129	6595 MHz
133	6615 MHz	137	6635 MHz	141	6655 MHz	145	6675 MHz
149	6695 MHz	153	6715 MHz	157	6735 MHz	161	6755 MHz
165	6775 MHz	169	6795 MHz	173	6815 MHz	177	6835 MHz
181	6855 MHz						

8 channels are provided for 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
123	6565 MHz	131	6605 MHz	139	6645 MHz	147	6685 MHz
155	6725 MHz	163	6765 MHz	171	6805 MHz	179	6845 MHz

5 channels are provided for 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
*119	6545 MHz	135	6625 MHz	151	6705 MHz	167	6785 MHz
*183	6865 MHz						

2 channels are provided for 802.11ax (HE160), 802.11be (EHT160):

Channel	Frequency	Channel	Frequency
143	6665 MHz	*175	6825 MHz

2 channels are provided for 802.11be (EHT320):

Channel	Frequency	Channel	Frequency
*127	6585 MHz	*159	6745 MHz

U-NII-8: (under control of a low-power indoor AP only)

13 channels are provided for 802.11a, 802.11ax (HE20), 802.11be (EHT20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
185	6875 MHz	189	6895 MHz	193	6915 MHz	197	6935 MHz
201	6955 MHz	205	6975 MHz	209	6995 MHz	213	7015 MHz
217	7035 MHz	221	7055 MHz	225	7075 MHz	229	7095 MHz
233	7115 MHz						

6 channels are provided for 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
187	6885 MHz	195	6925 MHz	203	6965 MHz	211	7005 MHz
219	7045 MHz	227	7085 MHz				

2 channels are provided for 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency	Channel	Frequency
199	6945 MHz	215	7025 MHz

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

Channel	Frequency
207	6985 MHz

1 channel is provided for 802.11be (EHT320):

Channel	Frequency
*191	6905 MHz

Note: * mean these are straddle channels and operating under control by under control of a low-power indoor access point only.

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis/NB-axis. Pre-scan these ways and find the worst case as a representative test condition.
Worst Case:	1. X-axis/ Y-axis/ Z-axis/NB-axis Worst Condition:X-axis

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

Test Item	Mode	Category	Signal Mode	Tested Channel	Modulation	Data Rate
Maximum RF Output Power	802.11be (EHT20)	under control of a low-power indoor AP	1TX	1, 45, 93	BPSK	MCS0
				97, 105, 113		
				117, 149, 181		
				185, 209, 229, 233		
	802.11be (EHT40)		1TX	3, 43, 91	BPSK	MCS0
				99, 107		
				115, 147, 179		
				187, 227		
	802.11be (EHT80)		1TX	7, 39, 87	BPSK	MCS0
				103, 119		
				135, 167		
				183, 199, 215		
	802.11be (EHT160)		1TX	15, 79	BPSK	MCS0
				111		
				143		
				207		
	802.11be (EHT320)		1TX	31, 95	BPSK	MCS0
				127, 159		
				191		
	802.11be (EHT20)		2TX	1, 45, 93	BPSK	MCS0
				97, 105, 113		
				117, 149, 181		
				185, 209, 229, 233		
	802.11be (EHT40)		2TX	3, 43, 91	BPSK	MCS0
				99, 107		
				115, 147, 179		
				187, 227		
	802.11be (EHT80)		2TX	7, 39, 87	BPSK	MCS0
				103, 119		
				135, 167		
				183, 199, 215		
	802.11be (EHT160)		2TX	15, 79	BPSK	MCS0
				111		
				143		
				207		
	802.11be (EHT320)		2TX	31, 95	BPSK	MCS0
				127, 159		
				191		

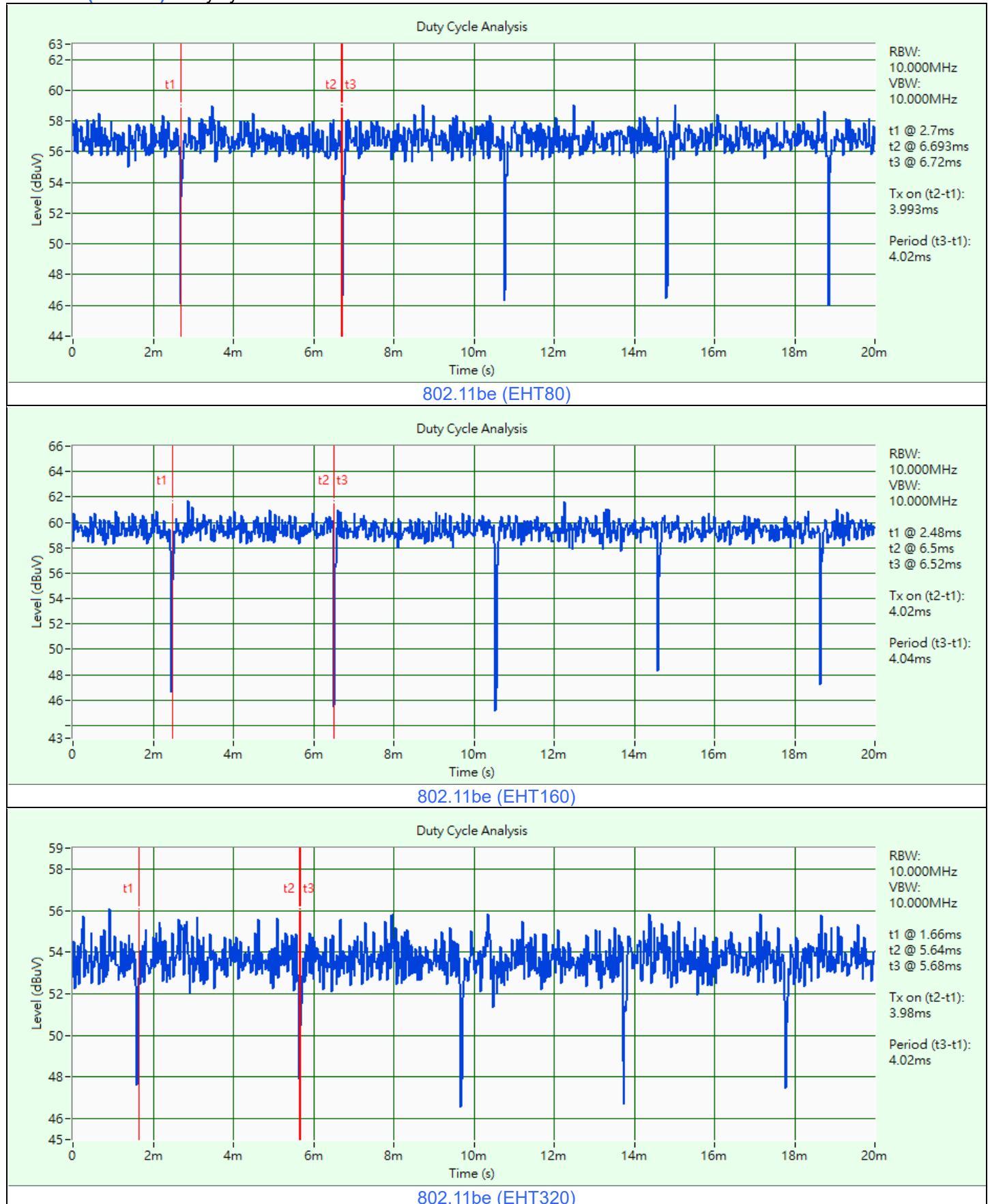
Test Item	Mode	Category	Signal Mode	Tested Channel	Modulation	Data Rate
Maximum RF Output Power	802.11be (EHT20)	under control of a standard-power AP	1TX	1, 45, 93	BPSK	MCS0
				117, 149, 181		
	802.11be (EHT40)		1TX	3, 43, 91	BPSK	MCS0
				123, 147, 179		
	802.11be (EHT80)		1TX	7, 39, 87	BPSK	MCS0
				135, 151, 167		
	802.11be (EHT160)		1TX	15, 79	BPSK	MCS0
				143		
	802.11be (EHT320)		1TX	31, 63	BPSK	MCS0
	802.11be (EHT20)		2TX	1, 45, 93	BPSK	MCS0
				117, 149, 181		
	802.11be (EHT40)		2TX	3, 43, 91	BPSK	MCS0
				123, 147, 179		
AC Power Conducted Emissions	802.11be (EHT160)	under control of a Standard Power AP	1TX	15	BPSK	MCS0
	802.11be (EHT320)	under control of a low-power indoor AP	1TX	95	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11be (EHT160)	under control of a Standard Power AP	1TX	15	BPSK	MCS0
	802.11be (EHT320)	under control of a low-power indoor AP	1TX	95	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11be (EHT160)	under control of a Standard Power AP	1TX	15	BPSK	MCS0
	802.11be (EHT320)	under control of a low-power indoor AP	1TX	95	BPSK	MCS0
	802.11be (EHT80)	under control of a Standard Power AP	2TX	167	BPSK	MCS0
	802.11be (EHT320)	under control of a low-power indoor AP	2TX	95	BPSK	MCS0

3.5 Duty Cycle of Test Signal

802.11be (EHT80): Duty cycle = 3.993 ms / 4.02 ms x 100% = 99.3%

802.11be (EHT160): Duty cycle = 4.02 ms / 4.04 ms x 100% = 99.5%

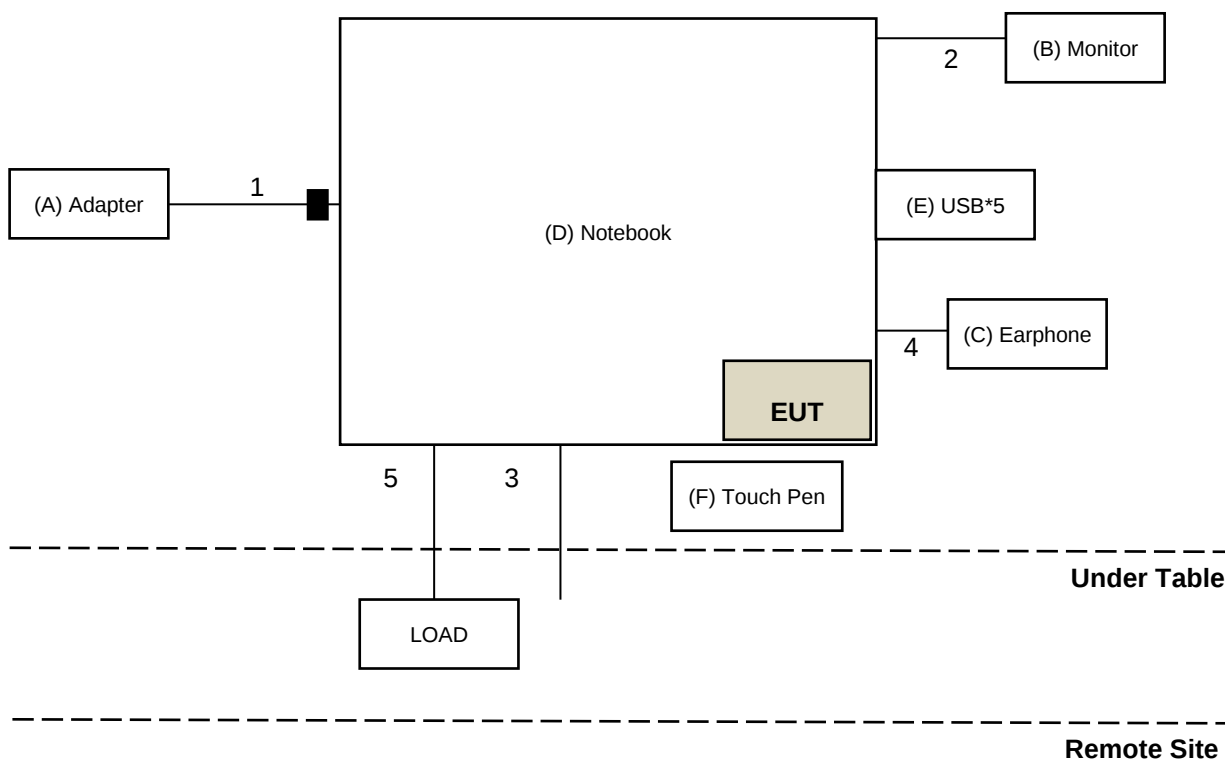
802.11be (EHT320): Duty cycle = 3.98 ms / 4.02 ms x 100% = 99.0%



3.6 Test Program Used and Operation Descriptions

Controlling software DRTU has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	FSP	FSP090-ABBN3	N/A	N/A	Supplied by applicant
B	Monitor	DELL	A14S2421HSXmTW	CN-01KWWF-WSL00-24C-711B	N/A	Provided by Lab
C	Earphone	APPLE	MB77PFEB	N/A	N/A	Provided by Lab
D	Notebook	Getac	V120	N/A	N/A	Supplied by applicant
E	USB*5	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
F	Touch Pen	Getac	340GA8900001	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.45	Y	1	Supplied by applicant
2	HDMI	1	1.8	Y	0	Provided by Lab
3	RS232	1	1.5	N	0	Provided by Lab
4	AUDIO	1	1.2	N	0	Provided by Lab
5	LAN	1	1.5	N	0	Provided by Lab

4 Test Instruments

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

4.1 Maximum RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Peak Power Analyzer Keysight	8990B	MY51000485	2025/1/20	2026/1/19
Wideband Power Sensor Keysight	N1923A	MY58020002	2025/1/21	2026/1/20
		MY58140009	2025/1/21	2026/1/20

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/6/19

4.2 AC Power Conducted Emissions

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

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2025/5/14

4.3 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-472	2024/10/14	2025/10/13
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Loop Antenna TESEQ	HLA 6121	45745	2024/8/21	2025/8/20
MXE EMI Receiver Agilent	N9038A	MY51210203	2024/8/27	2025/8/26
Preamplifier EMCI	EMC 330H	980112	2024/9/24	2025/9/23
	EMC001340	980201	2024/9/24	2025/9/23
RF Coaxial Cable Woken	8D-FB	Cable-Ch10-01	2024/9/24	2025/9/23
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2025/5/27

4.4 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	7	N/A	N/A
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-969	2024/11/10	2025/11/9
	BBHA 9170	148	2024/11/10	2025/11/9
MXE EMI Receiver Agilent	N9038A	MY51210203	2024/8/27	2025/8/26
Preamplifier EMCI	EMC 012645	980115	2024/9/24	2025/9/23
	EMC 184045	980116	2024/9/24	2025/9/23
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2024/7/6	2025/7/5
	EMC102-KM-KM-3000	150929	2024/7/6	2025/7/5
	EMC104-SM-SM- 8000+3000	171005	2024/9/24	2025/9/23
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	EMC104-SM-SM- 1000(140807)	2024/9/24	2025/9/23
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2025/6/20

5 Limits of Test Items

5.1 Maximum RF Output Power

Operation Band	Equipment Class	Limit
		Maximum Average Power
U-NII-5 U-NII-6 U-NII-7 U-NII-8	6CD: 15E 6 GHz Dual client (under control of a low-power indoor access point)	EIRP 24 dBm
U-NII-5 U-NII-7	6CD: 15E 6 GHz Dual client (under control of a Standard power access point)	EIRP 30 dBm

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

1. 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

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

Frequencies (MHz)	EIRP Limit	Equivalent Field Strength at 3 m
5925 MHz > F > 7125 MHz	Peak: -7 (dBm/MHz)	88.2 (dBuV/m)
	Average: -27 (dBm/MHz)	68.2 (dBuV/m)

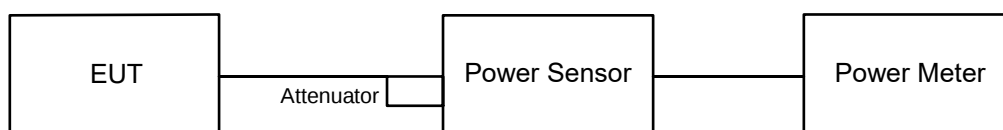
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 Maximum RF Output Power

6.1.1 Test Setup

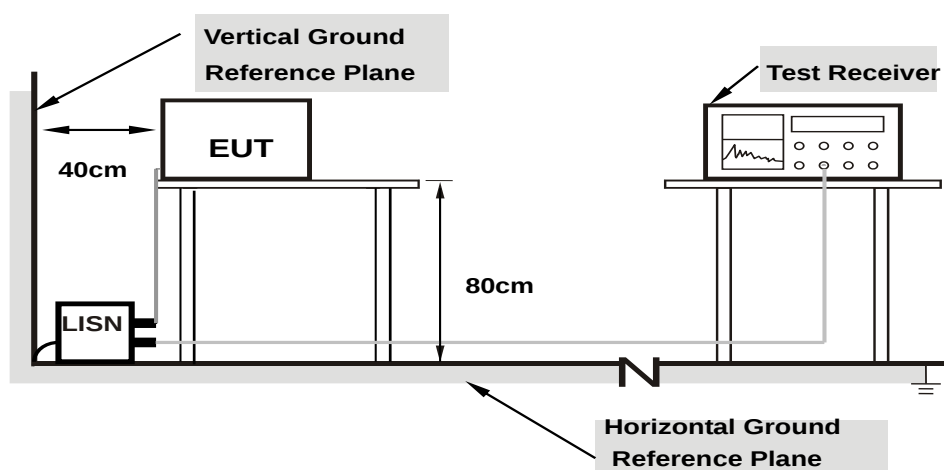


6.1.2 Test Procedure

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

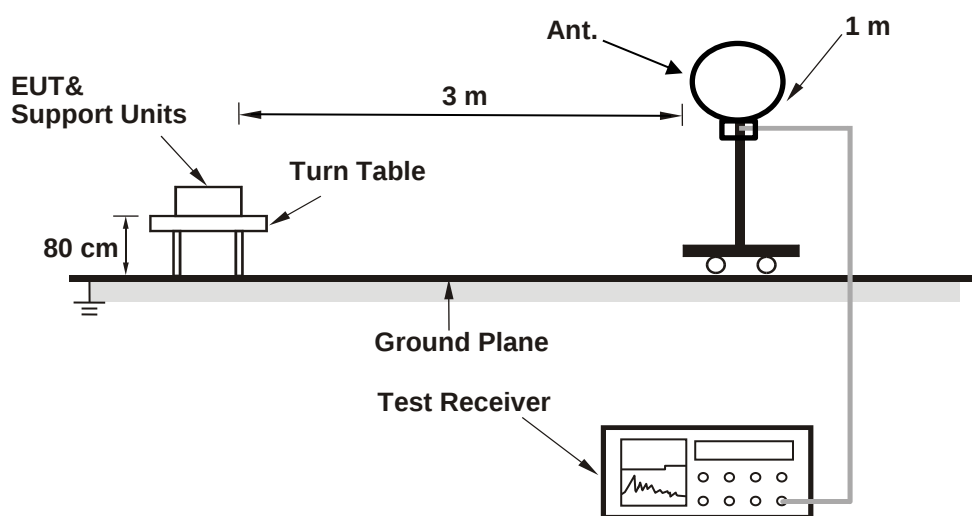
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

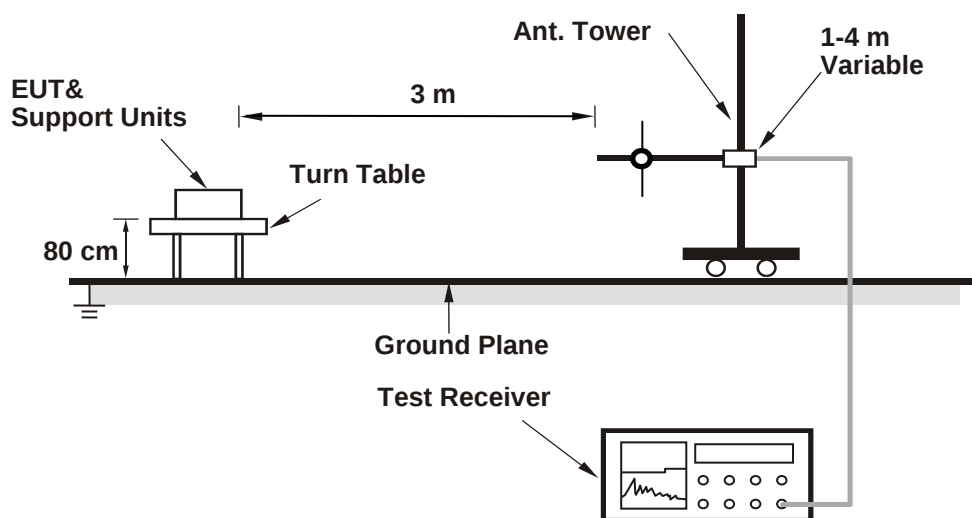
6.3 Unwanted Emissions below 1 GHz

6.3.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.3.2 Test Procedure

For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

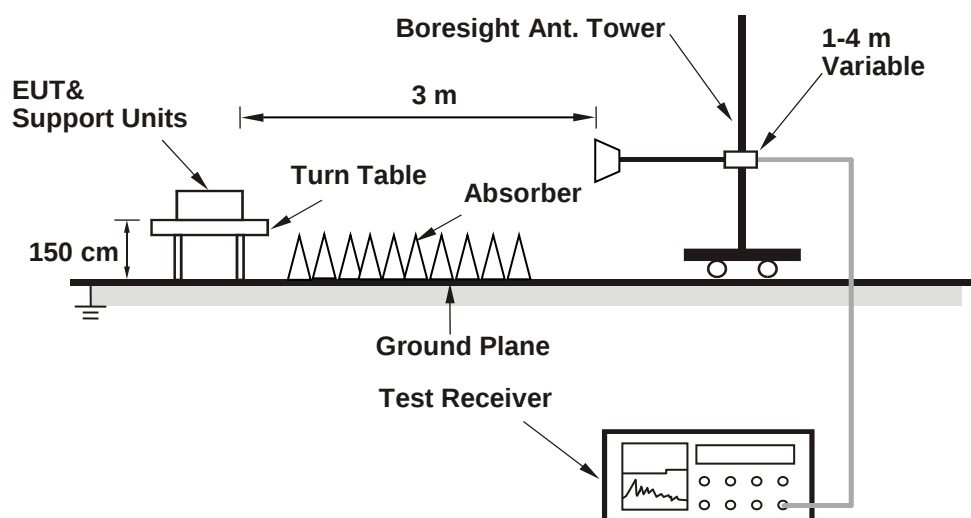
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

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

6.4 Unwanted Emissions above 1 GHz

6.4.1 Test Setup



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

6.4.2 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 Maximum RF Output Power

Input Power:	7.74 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Lin
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under control of a low-power indoor AP

1TX

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
1	5955	3.639	5.61	2.41	6.338	8.02	24	Pass
45	6175	3.581	5.54	2.41	6.237	7.95	24	Pass
93	6415	3.404	5.32	2.41	5.929	7.73	24	Pass
97	6435	3.251	5.12	2.41	5.663	7.53	24	Pass
105	6475	3.184	5.03	2.41	5.546	7.44	24	Pass
113	6515	3.184	5.03	2.41	5.546	7.44	24	Pass
117	6535	3.483	5.42	2.28	5.888	7.7	24	Pass
149	6695	3.296	5.18	2.28	5.572	7.46	24	Pass
181	6855	3.565	5.52	2.28	6.026	7.8	24	Pass
185	6875	3.365	5.27	2.28	5.688	7.55	24	Pass
209	6995	3.373	5.28	1.82	5.129	7.1	24	Pass
229	7095	3.436	5.36	1.82	5.225	7.18	24	Pass
233	7115	0.787	-1.04	1.82	1.197	0.78	24	Pass

Notes:

1. For U-NII-5, The antenna gain is 2.41 dBi.
2. For U-NII-6, The antenna gain is 2.41 dBi.
3. For U-NII-7, The antenna gain is 2.28 dBi.
4. For U-NII-8, The antenna gain is 1.82 dBi.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
3	5965	7.228	8.59	2.41	12.59	11	24	Pass
43	6165	6.95	8.42	2.41	12.106	10.83	24	Pass
91	6405	6.934	8.41	2.41	12.078	10.82	24	Pass
99	6445	6.745	8.29	2.41	11.748	10.7	24	Pass
107	6485	6.855	8.36	2.41	11.94	10.77	24	Pass
115	6525	6.73	8.28	2.41	11.722	10.69	24	Pass
147	6685	6.95	8.42	2.28	11.749	10.7	24	Pass
179	6845	7.261	8.61	2.28	12.274	10.89	24	Pass
187	6885	7.261	8.61	1.82	11.041	10.43	24	Pass
227	7085	6.73	8.28	1.82	10.233	10.1	24	Pass

Notes:

1. For U-NII-5, The antenna gain is 2.41 dBi.
2. For U-NII-6, The antenna gain is 2.41 dBi.
3. For U-NII-7, The antenna gain is 2.28 dBi.
4. For U-NII-8, The antenna gain is 1.82 dBi.

802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
7	5985	13.868	11.42	2.41	24.155	13.83	24	Pass
39	6145	13.996	11.46	2.41	24.378	13.87	24	Pass
87	6385	13.868	11.42	2.41	24.155	13.83	24	Pass
103	6465	14.488	11.61	2.41	25.235	14.02	24	Pass
119	6545	14.191	11.52	2.28	23.989	13.8	24	Pass
135	6625	13.964	11.45	2.28	23.605	13.73	24	Pass
167	6785	14.588	11.64	2.28	24.66	13.92	24	Pass
183	6865	13.868	11.42	2.28	23.443	13.7	24	Pass
199	6945	14.223	11.53	1.82	21.627	13.35	24	Pass
215	7025	14.223	11.53	1.82	21.627	13.35	24	Pass

Notes:

1. For U-NII-5, The antenna gain is 2.41 dBi.
2. For U-NII-6, The antenna gain is 2.41 dBi.
3. For U-NII-7, The antenna gain is 2.28 dBi.
4. For U-NII-8, The antenna gain is 1.82 dBi.

802.11be (EHT160)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
15	6025	21.878	13.40	2.41	38.107	15.81	24	Pass
79	6345	21.184	13.26	2.41	36.898	15.67	24	Pass
111	6505	21.777	13.38	2.41	37.931	15.79	24	Pass
143	6665	21.928	13.41	2.28	37.068	15.69	24	Pass
207	6985	21.878	13.40	1.82	33.267	15.22	24	Pass

Notes:

1. For U-NII-5, The antenna gain is 2.41 dBi.
2. For U-NII-6, The antenna gain is 2.41 dBi.
3. For U-NII-7, The antenna gain is 2.28 dBi.
4. For U-NII-8, The antenna gain is 1.82 dBi.

802.11be (EHT320)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
31	6105	18.578	12.69	2.41	32.359	15.1	24	Pass
95	6425	21.928	13.41	2.41	38.194	15.82	24	Pass
127	6585	19.588	12.92	2.28	33.112	15.2	24	Pass
159	6745	19.679	12.94	2.28	33.266	15.22	24	Pass
191	6905	21.979	13.42	1.82	33.42	15.24	24	Pass

Notes:

1. For U-NII-5, The antenna gain is 2.41 dBi.
2. For U-NII-6, The antenna gain is 2.41 dBi.
3. For U-NII-7, The antenna gain is 2.28 dBi.
4. For U-NII-8, The antenna gain is 1.82 dBi.

2TX

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							
1	5955	2.12	3.02	3.634	5.60	2.41	6.33	8.01	24	Pass
45	6175	2.28	2.21	3.354	5.26	2.41	5.842	7.67	24	Pass
93	6415	2.31	2.51	3.485	5.42	2.41	6.07	7.83	24	Pass
97	6435	2.02	2.11	3.218	5.08	2.41	5.605	7.49	24	Pass
105	6475	2.08	2.02	3.207	5.06	2.41	5.586	7.47	24	Pass
113	6515	2.02	2.02	3.184	5.03	2.41	5.546	7.44	24	Pass
117	6535	2.52	2.35	3.504	5.45	2.28	5.923	7.73	24	Pass
149	6695	2.58	2.36	3.533	5.48	2.28	5.972	7.76	24	Pass
181	6855	2.46	2.32	3.468	5.40	2.28	5.862	7.68	24	Pass
185	6875	2.28	2.32	3.397	5.31	2.28	5.742	7.59	24	Pass
209	6995	2.31	2.31	3.404	5.32	1.82	5.176	7.14	24	Pass
229	7095	2.29	2.33	3.404	5.32	1.82	5.176	7.14	24	Pass
233	7115	-3.73	-4.16	0.8074	-0.93	1.82	1.228	0.89	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, The maximum gain is 2.41 dBi.
3. For U-NII-6, The maximum gain is 2.41 dBi.
4. For U-NII-7, The maximum gain is 2.28 dBi.
5. For U-NII-8, The maximum gain is 1.82 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							
3	5965	5.42	5.32	6.887	8.38	2.41	11.996	10.79	24	Pass
43	6165	5.41	5.41	6.951	8.42	2.41	12.107	10.83	24	Pass
91	6405	5.18	5.41	6.771	8.31	2.41	11.794	10.72	24	Pass
99	6445	5.11	5.08	6.464	8.11	2.41	11.259	10.52	24	Pass
107	6485	5.09	5.12	6.479	8.12	2.41	11.285	10.53	24	Pass
115	6525	5.09	5.05	6.427	8.08	2.41	11.195	10.49	24	Pass
147	6685	5.41	5.30	6.864	8.37	2.28	11.603	10.65	24	Pass
179	6845	5.32	5.32	6.808	8.33	2.28	11.509	10.61	24	Pass
187	6885	5.58	5.43	7.106	8.52	1.82	10.805	10.34	24	Pass
227	7085	5.37	5.32	6.848	8.36	1.82	10.413	10.18	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, The maximum gain is 2.41 dBi.
3. For U-NII-6, The maximum gain is 2.41 dBi.
4. For U-NII-7, The maximum gain is 2.28 dBi.
5. For U-NII-8, The maximum gain is 1.82 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							
7	5985	8.43	8.54	14.111	11.50	2.41	24.579	13.91	24	Pass
39	6145	8.48	8.71	14.477	11.61	2.41	25.216	14.02	24	Pass
87	6385	8.46	8.53	14.143	11.51	2.41	24.634	13.92	24	Pass
103	6465	8.43	8.41	13.901	11.43	2.41	24.213	13.84	24	Pass
119	6545	8.56	8.51	14.274	11.55	2.28	24.129	13.83	24	Pass
135	6625	8.56	8.52	14.29	11.55	2.28	24.156	13.83	24	Pass
167	6785	8.52	8.51	14.208	11.53	2.28	24.018	13.81	24	Pass
183	6865	8.46	8.34	13.838	11.41	2.28	23.392	13.69	24	Pass
199	6945	8.62	8.52	14.39	11.58	1.82	21.881	13.4	24	Pass
215	7025	8.65	8.55	14.49	11.61	1.82	22.033	13.43	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, The maximum gain is 2.41 dBi.
3. For U-NII-6, The maximum gain is 2.41 dBi.
4. For U-NII-7, The maximum gain is 2.28 dBi.
5. For U-NII-8, The maximum gain is 1.82 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							
15	6025	10.11	10.08	20.442	13.11	2.41	35.606	15.52	24	Pass
79	6345	10.10	9.95	20.118	13.04	2.41	35.042	15.45	24	Pass
111	6505	10.26	10.26	21.234	13.27	2.41	36.986	15.68	24	Pass
143	6665	10.32	10.37	21.654	13.36	2.28	36.605	15.64	24	Pass
207	6985	10.34	10.39	21.754	13.38	1.82	33.078	15.2	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, The maximum gain is 2.41 dBi.
3. For U-NII-6, The maximum gain is 2.41 dBi.
4. For U-NII-7, The maximum gain is 2.28 dBi.
5. For U-NII-8, The maximum gain is 1.82 dBi.

802.11be (EHT320)

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							
31	6105	9.52	9.42	17.703	12.48	2.41	30.835	14.89	24	Pass
95	6425	10.33	10.29	21.48	13.32	2.41	37.414	15.73	24	Pass
127	6585	9.77	9.78	18.99	12.79	2.28	32.101	15.07	24	Pass
159	6745	9.85	9.93	19.501	12.90	2.28	32.965	15.18	24	Pass
191	6905	10.41	10.40	21.955	13.42	1.82	33.384	15.24	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, The maximum gain is 2.41 dBi.
3. For U-NII-6, The maximum gain is 2.41 dBi.
4. For U-NII-7, The maximum gain is 2.28 dBi.
5. For U-NII-8, The maximum gain is 1.82 dBi.

under control of a standard-power AP

1TX

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
1	5955	21.429	13.31	2.41	37.325	15.72	30	Pass
45	6175	21.086	13.24	2.41	36.728	15.65	30	Pass
93	6415	21.38	13.30	2.41	37.24	15.71	30	Pass
117	6535	22.029	13.43	2.28	37.239	15.71	30	Pass
149	6695	21.878	13.40	2.28	36.983	15.68	30	Pass
181	6855	21.528	13.33	2.28	36.392	15.61	30	Pass

Notes:

1. For U-NII-5, The antenna gain is 2.41 dBi.
2. For U-NII-7, The antenna gain is 2.28 dBi.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
3	5965	21.478	13.32	2.41	37.411	15.73	30	Pass
43	6165	21.086	13.24	2.41	36.728	15.65	30	Pass
91	6405	20.845	13.19	2.41	36.308	15.6	30	Pass
123	6565	21.184	13.26	2.28	35.81	15.54	30	Pass
147	6685	21.627	13.35	2.28	36.559	15.63	30	Pass
179	6845	21.33	13.29	2.28	36.057	15.57	30	Pass

Notes:

1. For U-NII-5, The antenna gain is 2.41 dBi.
2. For U-NII-7, The antenna gain is 2.28 dBi.

802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
7	5985	20.749	13.17	2.41	36.141	15.58	30	Pass
39	6145	21.827	13.39	2.41	38.018	15.8	30	Pass
87	6385	21.727	13.37	2.41	37.844	15.78	30	Pass
135	6625	21.478	13.32	2.28	36.307	15.6	30	Pass
151	6705	21.281	13.28	2.28	35.974	15.56	30	Pass
167	6785	21.135	13.25	2.28	35.727	15.53	30	Pass

Notes:

1. For U-NII-5, The antenna gain is 2.41 dBi.
2. For U-NII-7, The antenna gain is 2.28 dBi.

802.11be (EHT160)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
15	6025	21.878	13.40	2.41	38.107	15.81	30	Pass
79	6345	21.184	13.26	2.41	36.898	15.67	30	Pass
143	6665	21.928	13.41	2.28	37.068	15.69	30	Pass

Notes:

1. For U-NII-5, The antenna gain is 2.41 dBi.
2. For U-NII-7, The antenna gain is 2.28 dBi.

802.11be (EHT320)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
31	6105	18.578	12.69	2.41	32.359	15.1	30	Pass
63	6265	19.187	12.83	2.41	33.42	15.24	30	Pass

Notes:

1. For U-NII-5, The antenna gain is 2.41 dBi.
2. For U-NII-7, The antenna gain is 2.28 dBi.

2TX

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							
1	5955	9.93	9.98	19.794	12.97	2.41	34.477	15.38	30	Pass
45	6175	9.96	10.07	20.071	13.03	2.41	34.96	15.44	30	Pass
93	6415	9.99	10.04	20.07	13.03	2.41	34.958	15.44	30	Pass
117	6535	10.39	10.28	21.606	13.35	2.28	36.524	15.63	30	Pass
149	6695	10.30	10.38	21.63	13.35	2.28	36.564	15.63	30	Pass
181	6855	10.37	10.39	21.829	13.39	2.28	36.901	15.67	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, The maximum gain is 2.41 dBi.
3. For U-NII-7, The maximum gain is 2.28 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							
3	5965	10.02	9.90	19.819	12.97	2.41	34.521	15.38	30	Pass
43	6165	9.97	10.08	20.117	13.04	2.41	35.04	15.45	30	Pass
91	6405	9.97	10.10	20.164	13.05	2.41	35.122	15.46	30	Pass
123	6565	10.29	10.37	21.58	13.34	2.28	36.48	15.62	30	Pass
147	6685	10.32	10.42	21.78	13.38	2.28	36.818	15.66	30	Pass
179	6845	10.32	10.27	21.406	13.31	2.28	36.186	15.59	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, The maximum gain is 2.41 dBi.
3. For U-NII-7, The maximum gain is 2.28 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							
7	5985	9.91	10.01	19.818	12.97	2.41	34.519	15.38	30	Pass
39	6145	10.07	10.07	20.325	13.08	2.41	35.402	15.49	30	Pass
87	6385	10.03	9.96	19.978	13.01	2.41	34.798	15.42	30	Pass
135	6625	10.34	10.42	21.83	13.39	2.28	36.902	15.67	30	Pass
151	6705	10.25	10.31	21.332	13.29	2.28	36.06	15.57	30	Pass
167	6785	10.40	10.41	21.955	13.42	2.28	37.114	15.7	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, The maximum gain is 2.41 dBi.
3. For U-NII-7, The maximum gain is 2.28 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							
15	6025	10.11	10.08	20.442	13.11	2.41	35.606	15.52	30	Pass
79	6345	10.10	9.95	20.118	13.04	2.41	35.042	15.45	30	Pass
143	6665	10.32	10.37	21.654	13.36	2.28	36.605	15.64	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, The maximum gain is 2.41 dBi.
3. For U-NII-7, The maximum gain is 2.28 dBi.

802.11be (EHT320)

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							
31	6105	9.52	9.42	17.703	12.48	2.41	30.835	14.89	30	Pass
63	6265	9.54	9.52	17.949	12.54	2.41	31.264	14.95	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, The maximum gain is 2.41 dBi.
3. For U-NII-7, The maximum gain is 2.28 dBi.

7.2 AC Power Conducted Emissions

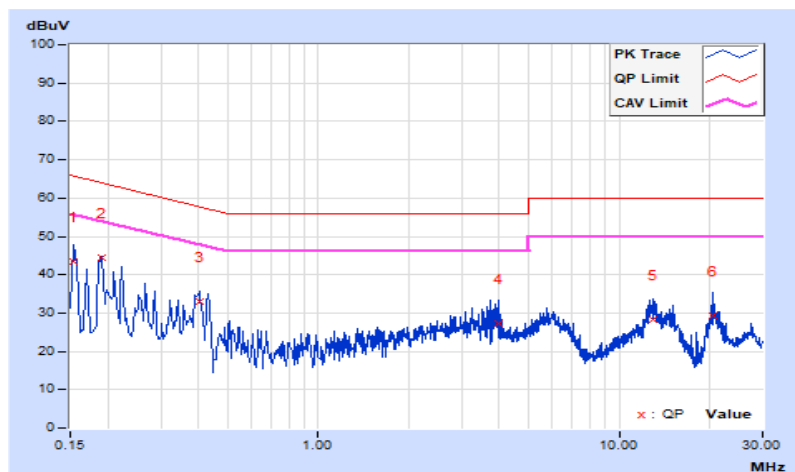
under control of a Standard Power AP

RF Mode	802.11be (EHT160)	Channel	CH 15 : 6025 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, 71% RH
Tested By	Thomas Cheng		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15400	10.25	33.23	14.88	43.48	25.13	65.78	55.78	-22.30	-30.65
2	0.19000	10.27	34.16	20.60	44.43	30.87	64.04	54.04	-19.61	-23.17
3	0.40200	10.29	22.83	5.27	33.12	15.56	57.81	47.81	-24.69	-32.25
4	3.97800	10.42	16.99	4.61	27.41	15.03	56.00	46.00	-28.59	-30.97
5	12.93400	10.49	17.71	6.91	28.20	17.40	60.00	50.00	-31.80	-32.60
6	20.39800	10.62	18.82	8.09	29.44	18.71	60.00	50.00	-30.56	-31.29

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

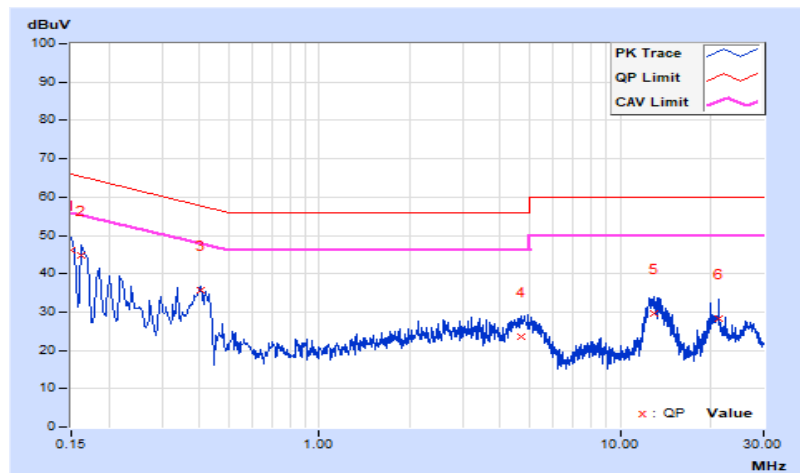


RF Mode	802.11be (EHT160)	Channel	CH 15 : 6025 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 71% RH
Tested By	Thomas Cheng		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.29	35.85	20.85	46.14	31.14	66.00	56.00	-19.86	-24.86
2	0.16200	10.30	34.60	19.40	44.90	29.70	65.36	55.36	-20.46	-25.66
3	0.40180	10.32	25.45	21.03	35.77	31.35	57.82	47.82	-22.05	-16.47
4	4.67400	10.48	13.01	6.54	23.49	17.02	56.00	46.00	-32.51	-28.98
5	12.92600	10.63	18.93	10.56	29.56	21.19	60.00	50.00	-30.44	-28.81
6	21.19400	10.82	17.54	8.78	28.36	19.60	60.00	50.00	-31.64	-30.40

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



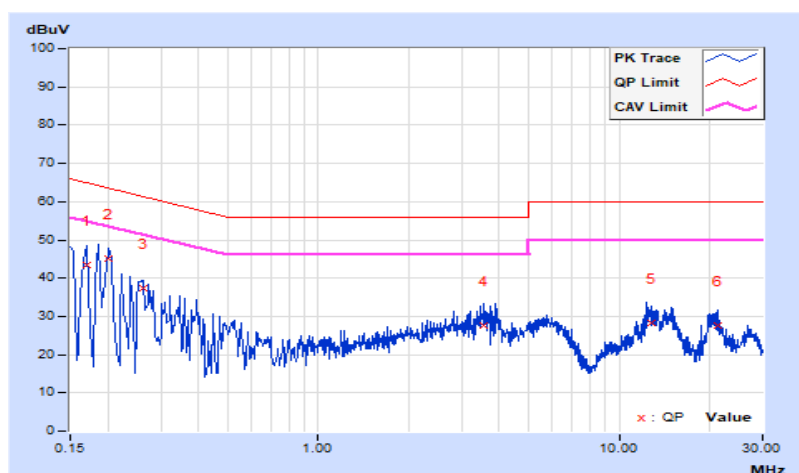
under control of a low-power indoor AP

RF Mode	802.11be (EHT320)	Channel	CH 95 : 6425 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, 71% RH
Tested By	Thomas Cheng		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16977	10.25	33.32	8.43	43.57	18.68	64.97	54.97	-21.40	-36.29
2	0.20200	10.27	34.92	21.10	45.19	31.37	63.53	53.53	-18.34	-22.16
3	0.26083	10.28	27.06	14.10	37.34	24.38	61.40	51.40	-24.06	-27.02
4	3.53800	10.41	17.19	5.49	27.60	15.90	56.00	46.00	-28.40	-30.10
5	12.87800	10.49	17.68	6.82	28.17	17.31	60.00	50.00	-31.83	-32.69
6	21.20600	10.61	16.85	7.57	27.46	18.18	60.00	50.00	-32.54	-31.82

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

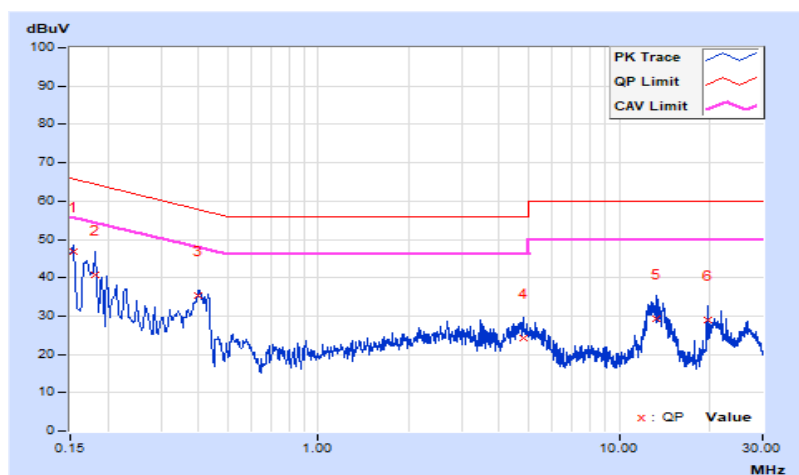


RF Mode	802.11be (EHT320)	Channel	CH 95 : 6425 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 71% RH
Tested By	Thomas Cheng		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15400	10.30	36.34	20.95	46.64	31.25	65.78	55.78	-19.14	-24.53
2	0.18200	10.30	30.55	17.08	40.85	27.38	64.39	54.39	-23.54	-27.01
3	0.40075	10.32	24.97	19.59	35.29	29.91	57.84	47.84	-22.55	-17.93
4	4.80200	10.48	13.74	7.52	24.22	18.00	56.00	46.00	-31.78	-28.00
5	13.29800	10.64	18.53	9.38	29.17	20.02	60.00	50.00	-30.83	-29.98
6	19.60200	10.83	17.97	5.54	28.80	16.37	60.00	50.00	-31.20	-33.63

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

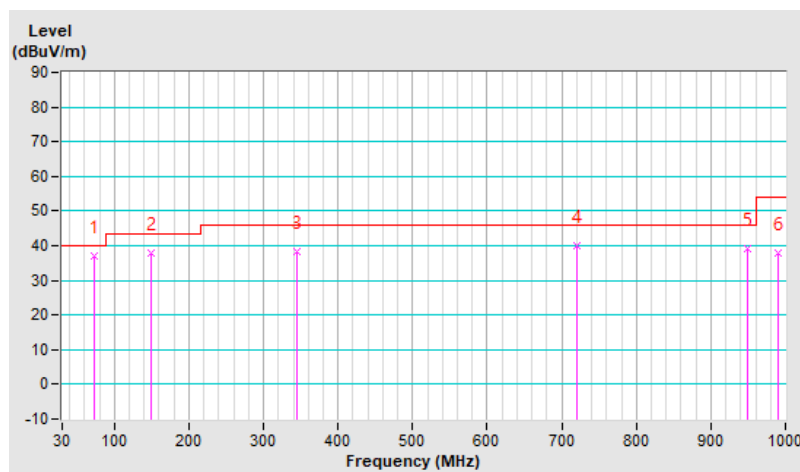
under control of a Standard Power AP

RF Mode	802.11be (EHT160)	Channel	CH 15 : 6025 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, 65% RH
Tested By	Thomas Cheng		

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	73.62	37.0 QP	40.0	-3.0	2.00 H	200	52.4	-15.4
2	149.37	37.8 QP	43.5	-5.7	2.00 H	270	50.0	-12.2
3	345.22	38.2 QP	46.0	-7.8	1.01 H	171	48.8	-10.6
4	719.73	39.9 QP	46.0	-6.1	2.00 H	130	42.1	-2.2
5	949.83	39.2 QP	46.0	-6.8	1.01 H	269	38.6	0.6
6	990.30	37.9 QP	54.0	-16.1	1.01 H	2	37.0	0.9

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 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.

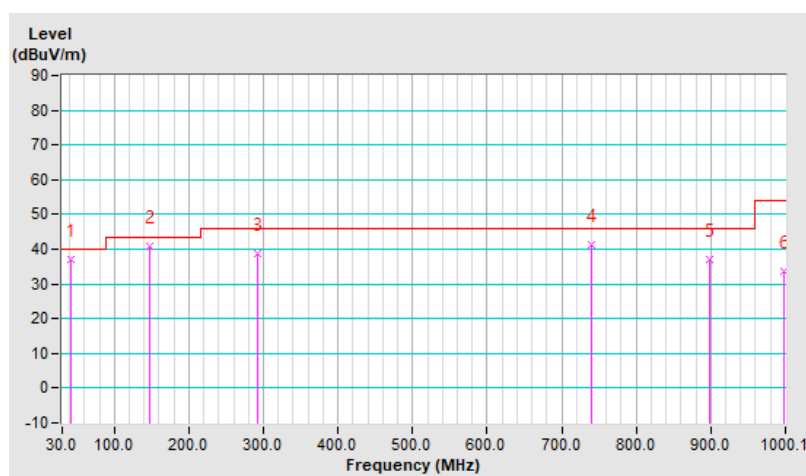


RF Mode	802.11be (EHT160)	Channel	CH 15 : 6025 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	41.00	36.9 QP	40.0	-3.1	1.00 V	215	49.3	-12.4
2	147.04	41.0 QP	43.5	-2.5	1.00 V	220	53.3	-12.3
3	291.58	38.8 QP	46.0	-7.2	1.00 V	200	50.7	-11.9
4	740.95	41.4 QP	46.0	-4.6	1.00 V	246	42.7	-1.3
5	899.18	37.0 QP	46.0	-9.0	1.00 V	262	37.4	-0.4
6	999.03	33.6 QP	54.0	-20.4	1.99 V	2	32.6	1.0

Remarks:

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



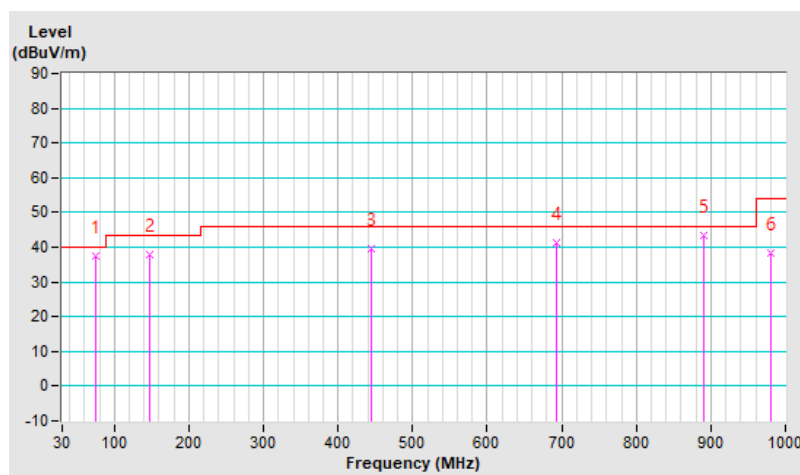
under control of a low-power indoor AP

RF Mode	802.11be (EHT320)	Channel	CH 95 : 6425 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, 65% RH
Tested By	Thomas Cheng		

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	74.62	37.6 QP	40.0	-2.4	2.00 H	220	53.2	-15.6
2	147.37	38.0 QP	43.5	-5.5	2.00 H	255	50.3	-12.3
3	445.16	39.5 QP	46.0	-6.5	2.00 H	194	47.2	-7.7
4	693.48	41.4 QP	46.0	-4.6	1.01 H	146	44.3	-2.9
5	891.36	43.5 QP	46.0	-2.5	1.00 H	150	43.9	-0.4
6	980.60	38.4 QP	54.0	-15.6	1.01 H	3	37.5	0.9

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 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.

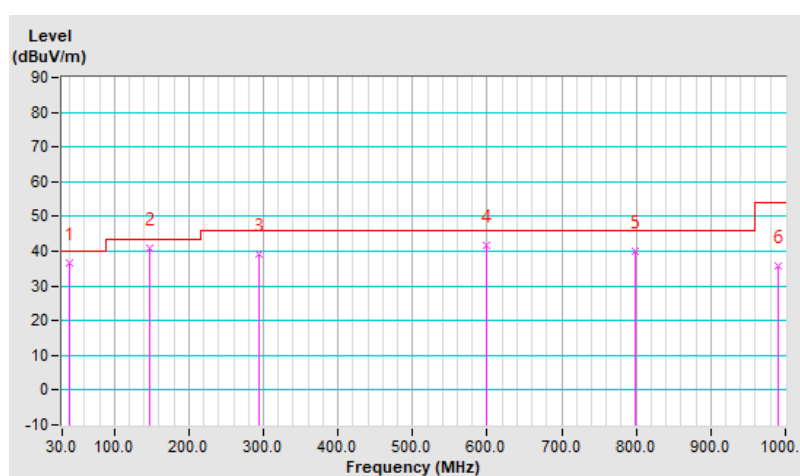


RF Mode	802.11be (EHT320)	Channel	CH 95 : 6425 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	40.07	36.8 QP	40.0	-3.2	1.00 V	220	49.2	-12.4
2	147.04	41.0 QP	43.5	-2.5	1.00 V	220	53.3	-12.3
3	293.84	39.0 QP	46.0	-7.0	1.00 V	205	50.8	-11.8
4	599.57	41.6 QP	46.0	-4.4	1.00 V	182	46.4	-4.8
5	799.42	39.9 QP	46.0	-6.1	1.99 V	346	40.8	-0.9
6	990.30	35.8 QP	54.0	-18.2	1.00 V	265	34.9	0.9

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 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

under control of a Standard Power AP

1TX

RF Mode	802.11be (EHT160)	Channel	CH 15 : 6025 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=RMS
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	#5925.00	60.4 PK	88.2	-27.8	2.40 H	251	53.7	6.7
2	#5925.00	46.3 AV	68.2	-21.9	2.40 H	251	39.6	6.7
3	*6025.00	100.8 PK			2.40 H	251	58.1	42.7
4	*6025.00	87.2 AV			2.40 H	251	44.5	42.7
5	12050.00	51.1 PK	74.0	-22.9	1.75 H	163	40.3	10.8
6	12050.00	48.0 AV	54.0	-6.0	1.75 H	163	37.2	10.8
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	#5925.00	59.3 PK	88.2	-28.9	2.14 V	101	52.6	6.7
2	#5925.00	46.1 AV	68.2	-22.1	2.14 V	101	39.4	6.7
3	*6025.00	94.6 PK			2.14 V	101	51.9	42.7
4	*6025.00	81.3 AV			2.14 V	101	38.6	42.7
5	12050.00	50.9 PK	74.0	-23.1	2.78 V	64	40.1	10.8
6	12050.00	47.8 AV	54.0	-6.2	2.78 V	64	37.0	10.8

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.

under control of a low-power indoor AP

1TX

RF Mode	802.11be (EHT320)	Channel	CH 95 : 6425 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=RMS
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	*6425.00	102.8 PK			2.46 H	260	56.8	46.0
2	*6425.00	89.4 AV			2.46 H	260	43.4	46.0
3	#12850.00	60.6 PK	88.2	-27.6	1.14 H	203	50.1	10.5
4	#12850.00	47.3 AV	68.2	-20.9	1.14 H	203	36.8	10.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6425.00	98.1 PK			2.17 V	109	52.1	46.0
2	*6425.00	84.8 AV			2.17 V	109	38.8	46.0
3	#12850.00	60.3 PK	88.2	-27.9	3.17 V	123	49.8	10.5
4	#12850.00	47.0 AV	68.2	-21.2	3.17 V	123	36.5	10.5

Remarks:

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

under control of a Standard Power AP

2TX

RF Mode	802.11be (EHT80)	Channel	CH 167 : 6785 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=RMS
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	*6785.00	104.5 PK			2.24 H	251	58.2	46.3
2	*6785.00	91.1 AV			2.24 H	251	44.8	46.3
3	#13570.00	52.8 PK	88.2	-35.4	2.97 H	153	40.6	12.2
4	#13570.00	49.6 AV	68.2	-18.6	2.97 H	153	37.4	12.2
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	*6785.00	99.2 PK			2.12 V	123	52.9	46.3
2	*6785.00	85.6 AV			2.12 V	123	39.3	46.3
3	#13570.00	52.6 PK	88.2	-35.6	1.03 V	17	40.4	12.2
4	#13570.00	49.3 AV	68.2	-18.9	1.03 V	17	37.1	12.2

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.

under control of a low-power indoor AP

2TX

RF Mode	802.11be (EHT320)	Channel	CH 95 : 6425 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=RMS
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 65% RH
Tested By	Thomas Cheng		

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	*6425.00	99.5 PK			2.47 H	259	53.5	46.0
2	*6425.00	86.0 AV			2.47 H	259	40.0	46.0
3	#12850.00	60.9 PK	88.2	-27.3	1.83 H	254	50.4	10.5
4	#12850.00	47.8 AV	68.2	-20.4	1.83 H	254	37.3	10.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6425.00	94.0 PK			2.23 V	110	48.0	46.0
2	*6425.00	81.0 AV			2.23 V	110	35.0	46.0
3	#12850.00	60.6 PK	88.2	-27.6	1.03 V	198	50.1	10.5
4	#12850.00	47.5 AV	68.2	-20.7	1.03 V	198	37.0	10.5

Remarks:

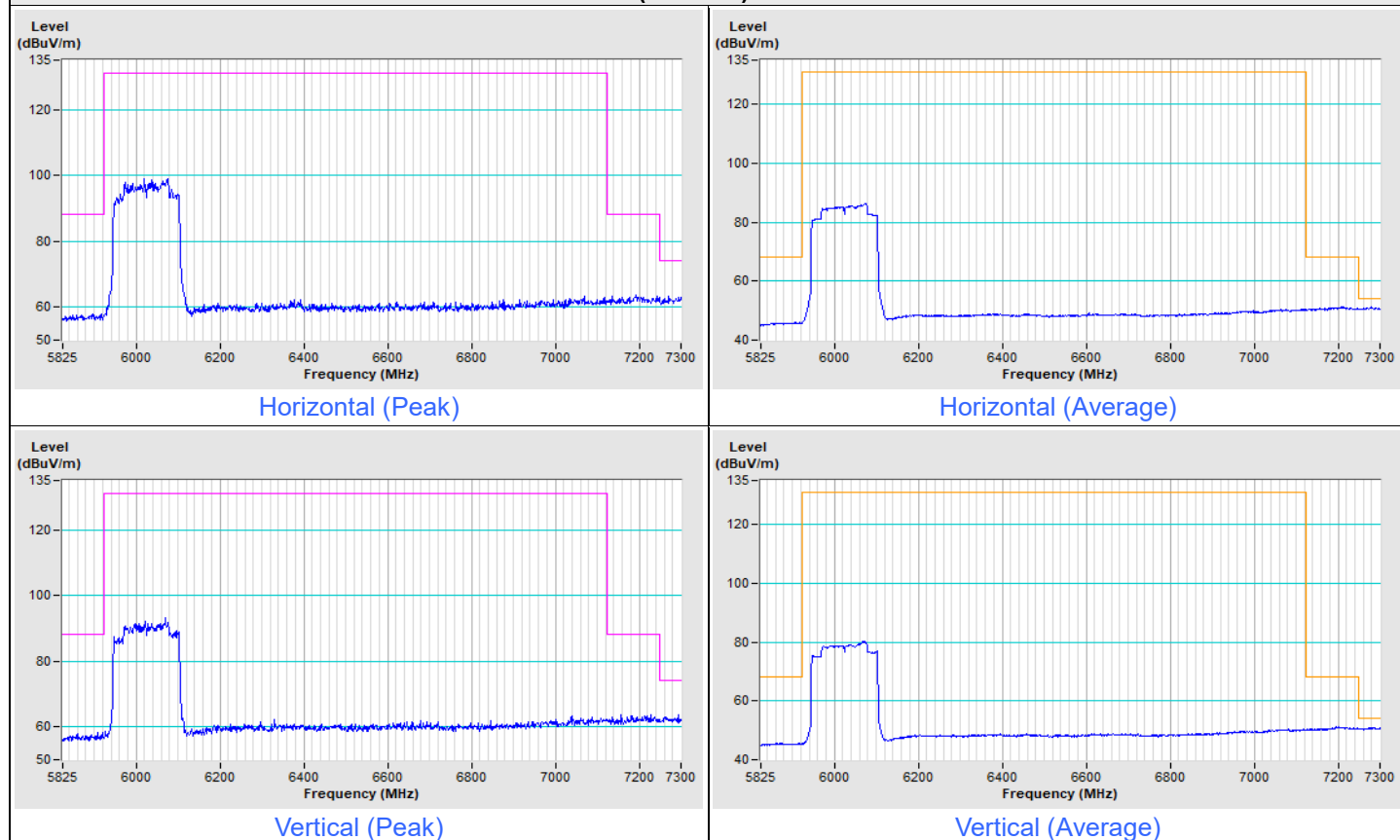
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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

under control of a Standard Power AP

1TX

Frequency Range	5.825 GHz ~ 7.3 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11be (EHT160) Channel 15



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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