

FCC 15.407 WLAN 6GHz Test Report

for

LG Electronics Inc.

**222, LG-ro, Jinwi-myeon Pyeongtaek-Si, Gyeonggi-Do,
17709 Republic of Korea**

Product Name : Notebook Computer
Model Name : (1)16Z95U (2)16ZD95U (3)16ZB95U (4)16ZG95U
Brand : LG
FCC ID : 2BO3L-16Z95U



The test report is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.

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APPENDIX A TEST DATA AND PLOTS

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TEST REPORT

Applicant : LG Electronics Inc.
EUT Description
(1) Product : Notebook Computer
(2) Model : (1)16Z95U (2)16ZD95U (3)16ZB95U (4)16ZG95U
(3) Brand : LG
(4) Power Supply : DC 20V, 3.25A

Applicable Standards:

Title 47 FCC CFR Part 15 Subpart E

Audix Technology Corp. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

Audix Technology Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

Date of Report: 2025. 11. 18

Reviewed by: Sabrina Wang (Sabrina Wang/Administrator)

Approved by: Johnny Hsueh (Johnny Hsueh/Deputy Manager)



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1. REVISION RECORD OF TEST REPORT

Edition No	Issued Date	Revision Summary	Report Number
0	2025. 11. 18	Original Report	EM-F250601

2. SUMMARY OF TEST RESULTS

FCC Part Section(s)	Description	Results
15.207	Conducted Emission	PASS
15.205/15.209 15.407 (b)(6)	Radiated Band Edge and Radiated Spurious Emission	PASS
15.407(a)(8)	Maximum Power Spectral Density	PASS
15.407(a)(8)	Maximum Conducted Output Power	PASS
2.1049 15.407(a)(10)	Emission/Occupied Bandwidth	PASS
15.407(b)(6)	Undesirable emission limits: Spurious Emission (Conducted)	PASS
15.407(b)(7)	In-Band Emission (Channel Mask)	PASS
15.407(d)(6)	Contention Based Protocol	PASS
15.203	Antenna Requirement	PASS
Note: The uncertainties value is not used in determining the result.		

3. GENERAL INFORMATION

The EUT's information described in this section are all provided by the applicant.

3.1. Description of Application

Applicant	LG Electronics Inc. 222, LG-ro, Jinwi-myeon Pyeongtaek-Si, Gyeonggi-Do, 17709 Republic of Korea
Product	Notebook Computer
Brand	LG
Model	(1)16Z95U (2)16ZD95U (3)16ZB95U (4)16ZG95U The difference between all models is different in the sales customers and color difference.

3.2. Description of EUT

Test Model	16Z95U		
Serial Number	N/A		
Power Rating	DC 20V, 3.25A		
Software Version	XY (X, Y can be 0 to 9 for different SW version not influence RF parameter)		
RF Features	WLAN: 802.11 a/b/g/n/ac/ax/be Bluetooth: BT and BLE (BT5.4)		
Transmit Type	2.4 GHz Bands		
	802.11b	1T1R	
	802.11g	1T1R	
	802.11n-HT20/40	2T2R	
	802.11ax-HE20/40	2T2R	
	802.11be-EHT20/40	2T2R	
	BT/BLE	1T1R	
	U-NII Bands		
	802.11a	1T1R	
	802.11n-HT20/40	2T2R	
	802.11ac-VHT20/40/80/160	2T2R	
	802.11ax-HE20/40/80/160	2T2R	
	802.11be-EHT20/40/80/160	2T2R	
	WLAN 6E Bands		
	802.11a	1T1R	
	802.11ax-HE20/40/80/160	2T2R	
	802.11be-EHT20/40/80/160	2T2R	
	The MIMO is uncorrelated and supported SDM (Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).		
Device Category	☐ standard power access point and fixed client device ☐ indoor access point ☐ subordinate device operating under the control of an indoor access point ☐ client devices, except for fixed client devices, operating under the control of a standard power access point ☒ client devices operating under the control of an indoor access point		
Sample Status	Trial sample		
Test Sample	Sample No.	Test Item	Firmware
	01	AC Conduction, RSE, RF Conducted	N/A
Date of Receipt	2025. 08. 15		
Date of Test	2025. 09. 04 ~ 11. 05		
Interface Ports of EUT	• One HDMI Port • Two USB Type C Ports • One Earphone Port • Two USB 3.0 Ports		
Accessories Supplied	• AC Adapter • USB C Cable • LAN Gender		

Note: Pursuant ISO 17025:2017 section 7.8.2, Audix Technology Corp. does not assume responsibility for all EUT's information including RF features, transmit type, antenna information...etc are provided by customer.

3.3. Reference Test Guidance

ANSI C63.10-2020

KDB 789033 D02 v02r01, KDB 662911 D01 v02r01, KDB 987594 D02 v03

3.4. Antenna Information

No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain(dBi)	
					Main	AUX
1.	WA-P-LELE-04-086	INPAQ	Mono-pole Type (PCB)	2400~2500	2.15	2.00
				5150~5350	-1.14	-0.60
				5470~5725	0.11	1.41
				5725~5900	1.55	1.92
				5925~6425	0.13	1.18
				6425~6525	2.84	-0.51
				6525~6875	2.84	-0.51
				6875~7125	0.47	0.91
According to KDB 662911 D01 d) i), transmit signals are completely uncorrelated, then Directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2/N_{ANT}]$ dBi Note 1. 2.4G: Directional gain = 2400~2500MHz: Directional gain = $10 \log[(10^{2.15/20} + 10^{2.0/20})^2/2] = 2.08$ dBi Note 2. 5G: Directional gain = 5150 ~ 5350MHz: = $10 \log[(10^{-1.14/20} + 10^{-0.6/20})^2/2] = -0.86$ dBi 5725 ~ 5900MHz: = $10 \log[(10^{1.55/10} + 10^{1.92/10})^2/2] = 1.74$ dBi Note 3. UNII Band (WLAN 6G): 5925~6425MHz: Directional gain = $10 \log[(10^{0.13/20} + 10^{1.18/20})^2/2] = 0.69$ dBi 6425~6525MHz: Directional gain = $10 \log[(10^{2.84/20} + 10^{-0.51/20})^2/2] = 1.48$ dBi 6525~6875MHz: Directional gain = $10 \log[(10^{2.84/20} + 10^{-0.51/20})^2/2] = 1.48$ dBi 6875~7125MHz: Directional gain = $10 \log[(10^{0.47/20} + 10^{0.91/20})^2/2] = 0.7$ dBi						

3.5. EUT Specifications Assessed in Current Report

Mode	U-NII Band	Fundamental Range (MHz)	Channel Number
802.11a 802.11ax-HE20 802.11be-EHT20	5	5955-6415	24
	6	6435-6515	5
	7	6535-6855	17
	8	6875-7115	13
802.11ax-HE40 802.11be-EHT40	5	5965-6405	12
	6	6445-6485	2
	7	6525-6845	9
	8	6885-7085	6
802.11ax-HE80 802.11be-EHT80	5	5985-6385	6
	6	6465-6545	2
	7	6625-6785	3
	8	6865-7025	3
802.11ax-HE160 802.11be-EHT160	5	6025-6345	3
	6	6505	1
	7	6665-6825	2
	8	6985	1

Mode	Modulation	Data Rate (Mbps)
802.11a	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 54
802.11ax-HE20	OFDMA (BPSK/ QPSK/ 16QAM/ 64QAM/ 256QAM/ 1024QAM)	Up to 287
802.11ax-HE40		Up to 574
802.11ax-HE80		Up to 1201
802.11ax-HE160		Up to 2402
802.11be-EHT20	OFDMA (BPSK/ QPSK/ 16QAM/ 64QAM/ 256QAM/ 1024QAM/ 4096QAM)	Up to 344
802.11be-EHT40		Up to 688
802.11be-EHT80		Up to 1441
802.11be-EHT160		Up to 2882

Channel List								
802.11a/802.11ax-HE20/802.11be-EHT20								
UNII Band	Channel Number	Frequency (MHz)	UNII Band	Channel Number	Frequency (MHz)	UNII Band	Channel Number	Frequency (MHz)
5	2	5955	6	97	6435	8	185	6875
	5	5975		101	6455		189	6895
	9	5995		105	6475		193	6915
	13	6015		109	6495		197	6935
	17	6035		113	6515		201	6955
	21	6055	7	117	6535		205	6975
	25	6075		121	6555		209	6995
	29	6095		125	6575		213	7015
	33	6115		129	6595		217	7035
	37	6135		133	6615		221	7055
	41	6155		137	6635		225	7075
	45	6175		141	6655		229	7095
	49	6195		145	6675		233	7115
	53	6215		149	6695			
	57	6235		153	6715			
	61	6255		157	6735			
	65	6275		161	6755			
	69	6295		165	6775			
	73	6315		169	6795			
	77	6335		173	6815			
	81	6335		177	6835			
	85	6375		181	6855			
	89	6395						
	93	6415						

Channel List								
802.11ax-HE40/802.11be-EHT40								
UNII Band	Channel Number	Frequency (MHz)	UNII Band	Channel Number	Frequency (MHz)	UNII Band	Channel Number	Frequency (MHz)
5	3	5965	6	99	6445	8	187	6885
	11	6005		107	6485		195	6925
	19	6045	7	115	6525		203	6965
	27	6085		123	6565		211	7005
	35	6125		131	6505		219	7045
	43	6165		139	6645		227	7085
	51	6205		147	6685			
	59	6245		155	6725			
	67	6285		163	6765			
	75	6325		171	6805			
	83	6365		179	6845			
	91	6405						

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Channel List								
802.11ax-HE80/802.11be-EHT80								
UNII Band	Channel Number	Frequency (MHz)	UNII Band	Channel Number	Frequency (MHz)	UNII Band	Channel Number	Frequency (MHz)
5	7	5985	6	103	6465	8	183	6865
	23	6065		119	6545		199	6945
	39	6145	7	135	6625		215	7025
	55	6225		151	6705			
	71	6305		167	6785			
	87	6385						

Channel List								
802.11ax-HE160/802.11be-EHT160								
UNII Band	Channel Number	Frequency (MHz)	UNII Band	Channel Number	Frequency (MHz)	UNII Band	Channel Number	Frequency (MHz)
5	15	6025	6	111	6505	8	175	6825
	47	6185	7	143	6665		207	6985
	79	6345						

Note: Test modes are presented at section 3.7.

3.6. Description of Key Components

3.6.1. For the All Component Lists

Item	Supplier	Model / Type	Character
System	Microsoft	Win10 Home / Pro	---
		Win11 Home / Pro	---
Main Board	LG	1xZ95U MAIN B/D	Manufacturer: #1 Hannstar Board Tech (Jiang Yin) Corp., Ltd. #2 Elec&Eltek Company (MCO) Limited. #3 Changzhou Aohong Electronics Co., Ltd.
SUB Board	LG	16Z90U/95U SUB B/D	Manufacturer: #1 Hannstar Board Tech (Jiang Yin) Corp., Ltd. #2 Elec&Eltek Company (MCO) Limited. #3 Changzhou Aohong Electronics Co., Ltd.
CPU	AMD	Ryzen 7 450	2.0GHz/5.1GHz
(Socket: BGA1270)	AMD	Ryzen 5 435	2.0GHz/4.5GHz
16" LCD Panel	LG Display	LP160WQ2	Resolution: 2560 x 1600, 144Hz (WQXGA)
16" OLED Panel	SAMSUNG DISPLAY	ATNA60HR10	Resolution: 2880 x 1800, 120Hz (WQXGA)
Storage (SSD)	Phison	---	256GB / 512GB / 1TB
	SAMSUNG	---	256GB / 512GB / 1TB
	LONGSYS	---	256GB / 512GB / 1TB
	SK Hynix	---	256GB / 512GB / 1TB
Memory (RAM)	LONGSYS	---	16GB / 32GB LPDDR5x(On Board)
	SAMSUNG	---	16GB / 32GB LPDDR5x(On Board)
	SK Hynix	---	16GB / 32GB LPDDR5x(On Board)
Battery Pack	LGES	LB3122MM	77Wh, DC 15.52V, 4963mAh
	BYD	LB3122MN	77Wh, DC 15.52V, 4963mAh
WLAN Combo Card	GSD (MTK)	WET10M2103 (MT7925)	WLAN and BT, 2x2 module FCC ID: RAS-MT7925B14L IC: 7425A-MT7925B14L
WLAN Combo Antenna	LG (INPAQ)	WA-P-LELE-04-086	PCB, Mono-pole Type Main/Aux
Keyboard	LITE-ON	SN8E03B	---
	TIC	KT0122L	---
Touch Pad	LITE-ON	SP8B00B31(SG-A0660-00A)	---
	ELAN	SD082A-34H0	---
Web Camera	Luxvisions	ABG213N3x	x: A~Z; 0~9
	Chicony	CKFPE28	---
LAN Gender (Type C to LAN)	SUZHOU MEC ELECTRONICS	80-5946-111	(White) 10/100 Megabit Ethernet
		80-5946-101	(Black) 10/100 Megabit Ethernet
	ARIN TECH CO. LTD	GD-08MF-36-WH-LP10	(White) 10/100 Megabit Ethernet
		GD-08MF-36-BK-LP11	(Black) 10/100 Megabit Ethernet
	HUIZHOU DEHONG TECHNOLOGY CO.,LTD.	370-50713	(White) 10/100 Megabit Ethernet
		370-50714	(Black) 10/100 Megabit Ethernet
	ARIN TECH CO. LTD	GD-08MF-50-WH-LP12	(White) 10/100/1000 Megabit Ethernet
		GD-08MF-50-BK-LP13	(Black) 10/100/1000 Megabit Ethernet
	SUZHOU MEC ELECTRONICS	80-5946-230-FA	(White) 10/100/1000 Megabit Ethernet
		80-5946-240-FA	(Black) 10/100/1000 Megabit Ethernet
	Type C to LAN: Shielded, Undetached		
AC Adapter	LG (PI ELECTRONICS)	LP65WFC20P-NJ	(B = Black), (W = White) I/P: AC 100-240V, 1.6A, 50-60Hz O/P: DC 5V, 3A(15W) or DC 9V, 3A(27W) or DC 15V, 3A (45W) or DC 20V, 3.25A (65W) US Type: Wall-Mounted: (2C)
	#1 Type C Cable(3A) #2 Type C Cable (5A)		

Remark: For more detailed features description, please refer to the manufacturer's specifications or the user manual.

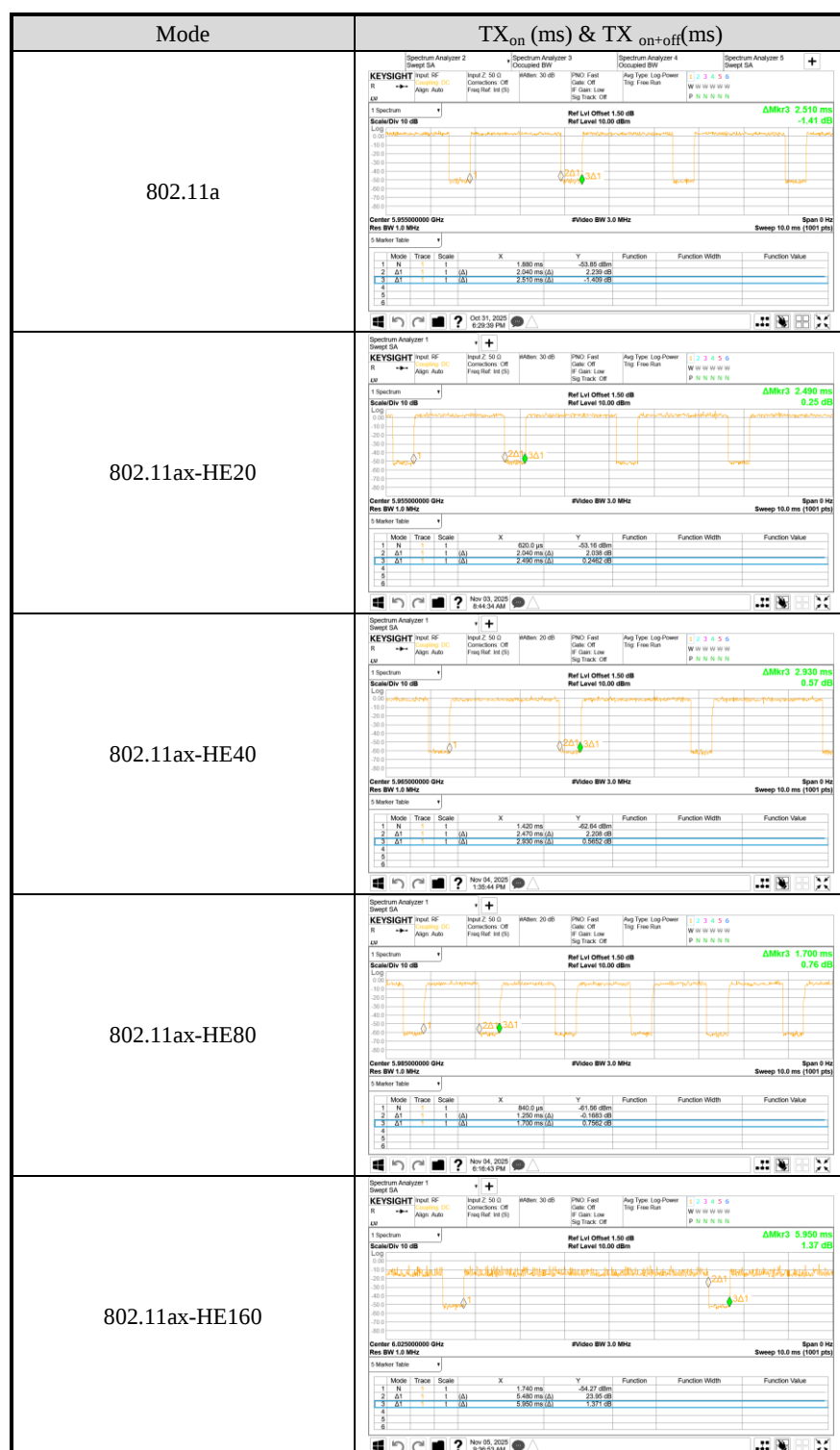
3.6.2. The EUT collocates with following worst components, which are used to establish a basic configuration of system during test:

SKU (Mode)		1
Main Board	LG, 1xZ95U MAIN B/D	V
SUB Board	LG, 16Z90U/95U SUB B/D	V
CPU	AMD, Ryzen 7 450	V
16" LCD Panel	LG Display, LP160WQ2	V
Storage (SSD)	SAMSUNG, 256GB	V
	SAMSUNG, 1TB	V
Memory (RAM)	SAMSUNG, 32GB	V
Battery Pack	LGES, LB3122MM	V
Keyboard	LITE-ON, SN8E03B	V
Touch Pad	LITE-ON, SP8B00B31(SG-A0660-00A)	V
Web Camera	Luxvisions, ABG213N3x	V
WLAN Combo Card	GSD (MTK), WET10M2103 (MT7925)	V
WLAN Combo Antenna	LG (INPAQ), WA-P-LELE-04-086	V
Type C	AC Adapter	V
	Link to LAN Gender	V

3.7. Test Configuration

Mode		TX _{on} (ms)	TX _{on+off} (ms)	Duty Cycle (x)	Duty Cycle Factor [10log(1/x)] (dB)
802.11a		2.040	2.510	0.813	0.899
802.11ax-HE20		2.040	2.490	0.819	0.867
802.11ax-HE40		2.470	2.930	0.843	0.742
802.11ax-HE80		1.250	1.700	0.735	1.337
802.11ax-HE160		5.480	5.950	0.921	0.357
802.11be-EHT20		2.400	2.850	0.842	0.747
802.11be-EHT40		2.910	3.360	0.866	0.625
802.11be-EHT80		1.450	1.910	0.759	1.198
802.11be-EHT160		5.590	5.990	0.933	0.301
Mode	RU Tone	TX _{on} (ms)	TX _{on+off} (ms)	Duty Cycle (x)	Duty Cycle Factor [10log(1/x)] (dB)
802.11ax	26	2.940	3.400	0.865	0.630
	52	2.890	3.340	0.865	0.630
	106	2.710	3.160	0.858	0.665
Mode	RU Tone	TX _{on} (ms)	TX _{on+off} (ms)	Duty Cycle (x)	Duty Cycle Factor [10log(1/x)] (dB)
802.11be	26	2.930	3.380	0.867	0.620
	52	2.890	3.340	0.865	0.630
	106	2.700	3.150	0.857	0.670
Mode	MRU Tone	TX _{on} (ms)	TX _{on+off} (ms)	Duty Cycle (x)	Duty Cycle Factor [10log(1/x)] (dB)
802.11be	26+52	3.780	4.240	0.892	0.496
	26+106	4.290	4.750	0.903	0.443
	484+242	1.930	2.390	0.808	0.926
	996+484	4.540	4.971	0.913	0.395
	996+484+242	3.915	4.380	0.894	0.487

Note: When duty cycle is less than 98% (0.98) that duty cycle factor 10log(1/x) is needed to add in conducted test items measured in average detector.

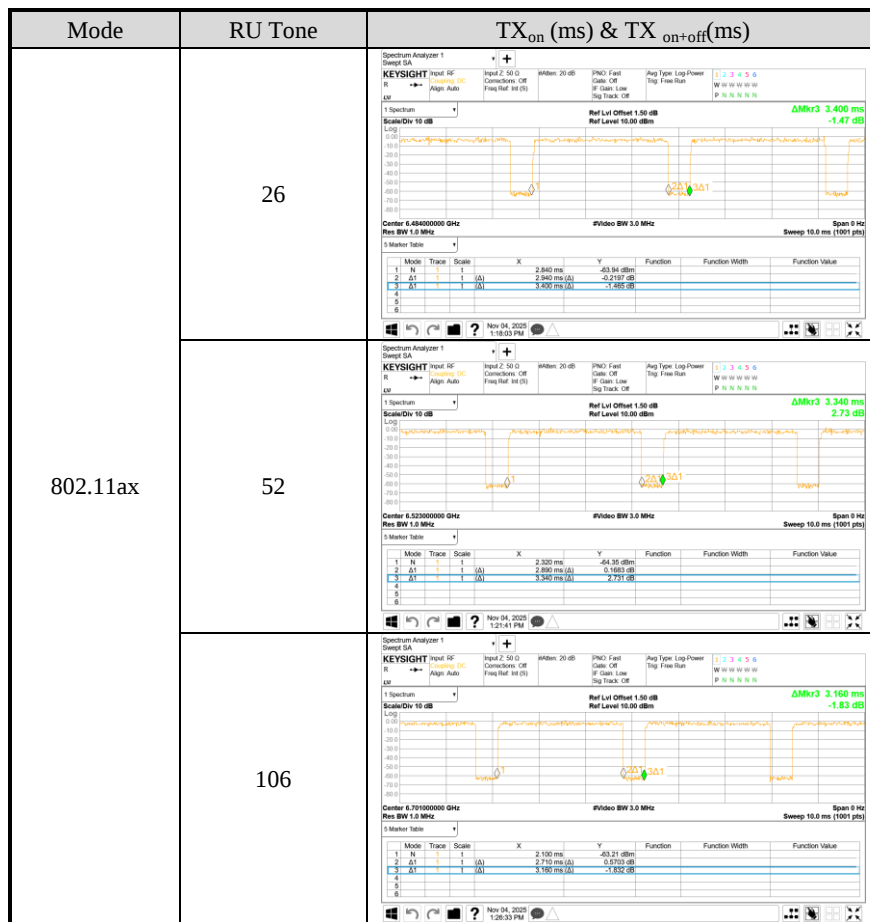


802.11be-EHT20

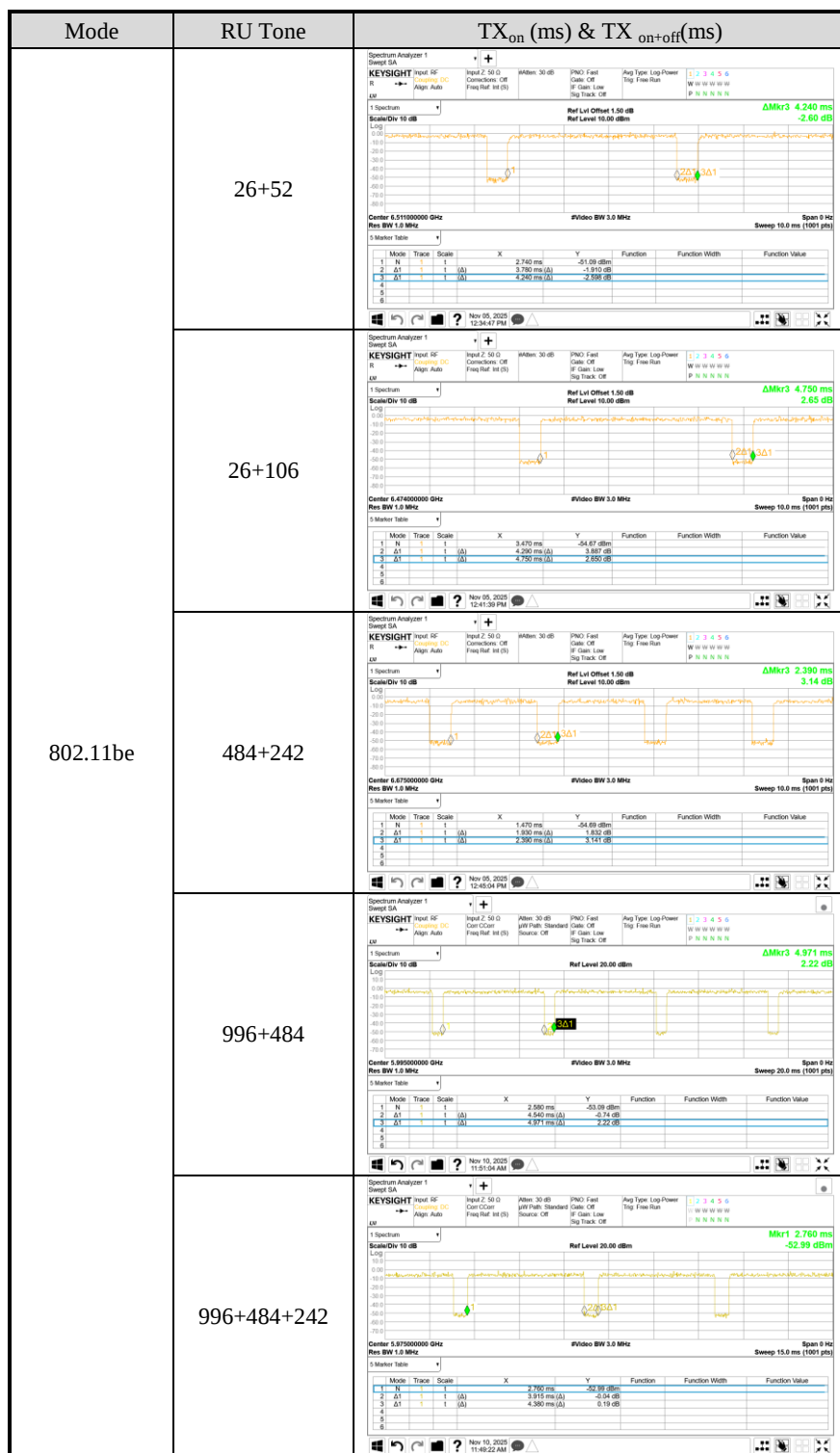
802.11be-EHT40

802.11be-EHT80

802.11be-EHT160







AC Conduction
Normal operation

● OFDM Modulation

Item		Mode	Data Rate	Test Channel
Radiated Test Case	Radiated Spurious Emission (30MHz~1GHz)	802.11be-EHT160	HE0	111
	Radiated Spurious Emission (Above 1GHz)	802.11a	HE0	2/45/93/97/105/113/117/149/181/185/209/233
		802.11ax-HE20	HE0	2/45/93/97/105/113/117/149/181/185/209/233
		802.11ax-HE40	HE0	3/43/91/99/107/115/147/179/187/211/227
		802.11ax-HE80	HE0	7/39/87/103/119/135/151/167/183/199/215
		802.11ax-HE160	HE0	15/47/79/111/143/175/207
		802.11be-EHT20	EHT0	2/45/93/97/105/113/117/149/181/185/209/233
		802.11be-EHT40	EHT0	3/43/91/99/107/115/147/179/187/211/227
		802.11be-EHT80	EHT0	7/39/87/103/119/135/151/167/183/199/215
		802.11be-EHT160	EHT0	15/47/79/111/143/175/207
	Band Edge	802.11a	HE0	2/233
		802.11ax-HE20	HE0	2/233
		802.11ax-HE40	HE0	3/227
		802.11ax-HE80	HE0	7/215
		802.11ax-HE160	HE0	15/207
		802.11be-EHT20	EHT0	2/233
		802.11be-EHT40	EHT0	3/227
		802.11be-EHT80	EHT0	7/215
		802.11be-EHT160	EHT0	15/207
Item		Mode	Data Rate	Test Channel
Conducted Test Case	Maximum Power Spectral Density/ Maximum Conducted Output power/ Emission/ Occupied Bandwidth	802.11a	HE0	2/45/93/97/105/113/117/149/181/185/209/233
		802.11ax-HE20	HE0	2/45/93/97/105/113/117/149/181/185/209/233
		802.11ax-HE40	HE0	3/43/91/99/107/115/147/179/187/211/227
		802.11ax-HE80	HE0	7/39/87/103/119/135/151/167/183/199/215
		802.11ax-HE160	HE0	15/47/79/111/143/175/207
		802.11be-EHT20	EHT0	2/45/93/97/105/113/117/149/181/185/209/233
		802.11be-EHT40	EHT0	3/43/91/99/107/115/147/179/187/211/227
		802.11be-EHT80	EHT0	7/39/87/103/119/135/151/167/183/199/215
		802.11be-EHT160	EHT0	15/47/79/111/143/175/207
	Band Edge	802.11a	HE0	2/233
		802.11ax-HE20	HE0	2/233
		802.11ax-HE40	HE0	3/227
		802.11ax-HE80	HE0	7/215
		802.11ax-HE160	HE0	15/207
		802.11be-EHT20	EHT0	2/233
		802.11be-EHT40	EHT0	3/227
		802.11be-EHT80	EHT0	7/215
		802.11be-EHT160	EHT0	15/207
	Spurious Emission	802.11a	HE0	2/113/149/185
		802.11ax-HE20	HE0	2/113/149/185
		802.11ax-HE40	HE0	3/99/147/187
		802.11ax-HE80	HE0	87/119/135/215
		802.11ax-HE160	HE0	15/111/143/207
		802.11be-EHT20	EHT0	2/113/149/185
		802.11be-EHT40	EHT0	3/99/147/187
		802.11be-EHT80	EHT0	87/119/135/215
		802.11be-EHT160	EHT0	15/111/143/207
	In-Band Emission (Channel Mask)	802.11a	HE0	2/45/93/97/105/113/117/149/181/185/209/233
		802.11ax-HE20	HE0	2/45/93/97/105/113/117/149/181/185/209/233
		802.11ax-HE40	HE0	3/43/91/99/107/115/147/179/187/211/227
		802.11ax-HE80	HE0	7/39/87/103/119/135/151/167/183/199/215
		802.11ax-HE160	HE0	15/47/79/111/143/175/207
		802.11be-EHT20	EHT0	2/45/93/97/105/113/117/149/181/185/209/233
		802.11be-EHT40	EHT0	3/43/91/99/107/115/147/179/187/211/227
		802.11be-EHT80	EHT0	7/39/87/103/119/135/151/167/183/199/215
		802.11be-EHT160	EHT0	15/47/79/111/143/175/207
	Contention Based Protocol	802.11be-EHT20	EHT0	37/101/149/213
		802.11be-EHT160	EHT0	47/111/143/207

● OFDMA Modulation

OFDM Modulation						
Item		Tones	RU Index	Mode	Data Rate	Test Channel
Radiated Test Case	Band Edge	26T	0	802.11ax-HE20	HE0	2
			8	802.11ax-HE20	HE0	233
		52T	37	802.11ax-HE20	HE0	2
			40	802.11ax-HE20	HE0	233
		106T	53	802.11ax-HE20	HE0	2
			54	802.11ax-HE20	HE0	233
		26T	0	802.11be-EHT20	EHT0	2
			8	802.11be-EHT20	EHT0	233
		52T	37	802.11be-EHT20	EHT0	2
			40	802.11be-EHT20	EHT0	233
		106T	53	802.11be-EHT20	EHT0	2
			54	802.11be-EHT20	EHT0	233
		26T+52T	70	802.11be-EHT20	EHT0	2
			72	802.11be-EHT20	EHT0	233
		26T+106T	82	802.11be-EHT20	EHT0	2
			83	802.11be-EHT20	EHT0	233
		484T+242T	91	802.11be-EHT80	EHT0	7
			92	802.11be-EHT80	EHT0	215
		996T+484T	95	802.11be-EHT160	EHT0	15
			S94	802.11be-EHT160	EHT0	207
		996T+484T+242T	S96	802.11be-EHT160	EHT0	15
			S96	802.11be-EHT160	EHT0	207
Item		Tones	RU Index	Mode	Data Rate	Test Channel
Conducted Test Case	Maximum Power Spectral Density/ In-Band Emission (Channel Mask)	26T	8	802.11ax-HE20	HE0	105
		52T	40	802.11ax-HE20	HE0	113
		106T	54	802.11ax-HE20	HE0	149
		26T	4	802.11be-EHT20	EHT0	105
		52T	37	802.11be-EHT20	EHT0	113
		106T	53	802.11be-EHT20	EHT0	105
		26T+52T	71	802.11be-EHT20	EHT0	113
		26T+106T	83	802.11be-EHT20	EHT0	105
		484T+242T	91	802.11be-EHT80	EHT0	151
		996T+484T	S95	802.11be-EHT160	EHT0	111
		996T+484T+242T	S99	802.11be-EHT160	EHT0	111

● OFDMA Modulation

OFDM Modulation						
Item		Tones	RU Index	Mode	Data Rate	Test Channel
Conducted Test Case	Maximum Conducted Output power Note 3	26T	0/4/8	802.11ax-HE20	HE0	2/45/93/97/105/113/117/149/181/185/209/233
		52T	37/39/40	802.11ax-HE20	HE0	2/45/93/97/105/113/117/149/181/185/209/233
		106T	53/54	802.11ax-HE20	HE0	2/45/93/97/105/113/117/149/181/185/209/233
		26T	0/4/8	802.11be-EHT20	EHT0	2/45/93/97/105/113/117/149/181/185/209/233
		52T	37/39/40	802.11be-EHT20	EHT0	2/45/93/97/105/113/117/149/181/185/209/233
		106T	53/54	802.11be-EHT20	EHT0	2/45/93/97/105/113/117/149/181/185/209/233
		26T+52T	70/71/72	802.11be-EHT20	EHT0	2/45/93/97/105/113/117/149/181/185/209/233
		26T+106T	82/83	802.11be-EHT20	EHT0	2/45/93/97/105/113/117/149/181/185/209/233
		484T+242T	90/91/92/93	802.11be-EHT80	EHT0	7/39/87/103/119/135/151/167/183/199/215
		996T+484T	94/95/S94/S95	802.11be-EHT160	EHT0	15/47/79/111/143/175/207
		996T+484T+242T	96/97/98/99/S96/S97/S98/S99	802.11be-EHT160	EHT0	15/47/79/111/143/175/207

Note 1: ☐ Mobile Device ☒ Portable Device

and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow: ☒ Lie ☐ Side ☐ Stand

Note 2: Low, mid, and high channels were measured, only the worst channel of each modulation was presented in this report.

Note 3: The data rates were selected based on preliminary testing that identified rate as the worst case for output power.

Note 4: For the CBP test, The EUT does not support channel puncturing mechanism.

Note 5: The EUT support MRU configuration as below:

Small RU: 52 tone + 26 tone, 106 tone + 26 tone

Large RU: 484 tone + 242 tone, 996 tone + 484 tone + 242 tone, 996 tone * 2 + 484 tone, 996 tone * 3, 996 tone * 3 + 484 tone.

Note 6: For the Partial_RU modes which include single RU, Multi RU that are less than or equal Full RU power setting, we have conducted tests for Power, PSD, Mask and Radiated band-edge.

Note 7: For the Partial_RU modes including single RU, Multi RU, We had done the pre-scan to determine the worst-case modes from the all combinations. The worst-case results (PSD, Mask, Radiated Band-Edge) are presented in the report.

3.8. Output Power Setting

● OFDM Modulation

U-NII Band	Centre Frequency (MHz)	802.11a		802.11ax-HE20		802.11be-EHT20	
		Power Setting		Power Setting		Power Setting	
		AUX	Main	AUX	Main	AUX	Main
5	5955	6.00	6.00	5.00	5.00	5.00	5.00
	6175	6.50	6.50	5.50	5.50	5.50	5.50
	6415	7.50	7.50	6.50	6.50	6.50	6.50
6	6435	7.50	7.50	6.50	6.50	6.50	6.50
	6475	7.00	7.00	6.00	6.00	6.00	6.00
	6515	7.00	7.00	6.00	6.00	6.00	6.00
7	6535	7.00	7.00	6.00	6.00	6.00	6.00
	6695	7.00	7.00	6.00	6.00	6.50	6.50
	6855	7.00	7.00	6.00	6.00	6.00	6.00
8	6875	8.00	8.00	6.50	6.50	7.00	7.00
	6995	7.50	7.50	6.50	6.50	6.50	6.50
	7115	7.00	7.00	6.00	6.00	6.50	6.50

U-NII Band	Centre Frequency (MHz)	802.11ax-HE40		802.11be-EHT40	
		Power Setting		Power Setting	
		AUX	Main	AUX	Main
5	5965	6.00	6.00	6.50	6.50
	6165	6.50	6.50	7.00	7.00
	6405	7.00	7.00	8.00	8.00
6	6445	7.50	7.50	8.00	8.00
	6485	7.00	7.00	7.50	7.50
	6525	7.00	7.00	8.00	8.00
7	6685	7.00	7.00	7.50	7.50
	6845	7.00	7.00	7.50	7.50
	6885	7.50	7.50	8.50	8.50
8	7005	7.50	7.50	8.50	8.50
	7085	7.00	7.00	8.00	8.00

U-NII Band	Centre Frequency (MHz)	802.11ax-HE80		802.11be-EHT80	
		Power Setting		Power Setting	
		AUX	Main	AUX	Main
5	5985	6.50	6.50	6.50	6.50
	6145	7.00	7.00	7.00	7.00
	6385	8.00	8.00	8.00	8.00
6	6465	8.00	8.00	8.50	8.50
	6545	7.50	7.50	7.50	7.50
	6625	8.00	8.00	8.00	8.00
7	6705	8.00	8.00	8.00	8.00
	6785	8.00	8.00	8.00	8.00
	6865	7.50	7.50	8.00	8.00
8	6945	8.00	8.00	8.50	8.50
	7025	8.50	8.50	8.50	8.50

U-NII Band	Centre Frequency (MHz)	802.11ax-HE160		802.11be-EHT160	
		Power Setting		Power Setting	
		AUX	Main	AUX	Main
5	6025	12.50	12.50	11.50	11.50
	6185	12.50	12.50	11.50	11.50
	6345	13.50	13.50	13.00	13.00
6	6505	13.50	13.50	12.00	12.00
	6665	13.50	13.50	12.50	12.50
	6825	13.50	13.50	12.50	12.50
8	6985	14.00	14.00	13.00	13.00

● OFDMA Modulation

Tones: 26T

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)					
				RU Index 0		RU Index 4		RU Index 8	
				AUX	Main	AUX	Main	AUX	Main
802.11 ax-HE20	5	5955	26T	-8.50	-8.50	-8.50	-8.50	-8.50	-8.50
		6175		-8.00	-8.00	-8.00	-8.00	-8.00	-8.00
		6415		-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
	6	6435		-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
		6475		-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
		6515		-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
	7	6535		-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
		6695		-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
		6855		-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
	8	6875		-6.00	-6.00	-6.00	-6.00	-6.00	-6.00
		6995		-6.00	-6.00	-6.00	-6.00	-6.00	-6.00
		7115		-6.00	-6.00	-6.00	-6.00	-6.00	-6.00

Tones: 52T

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)					
				RU Index 37		RU Index 39		RU Index 40	
				AUX	Main	AUX	Main	AUX	Main
802.11 ax-HE20	5	5955	52T	-4.50	-4.50	-5.00	-5.00	-5.00	-5.00
		6175		-4.50	-4.50	-4.50	-4.50	-4.50	-4.50
		6415		-4.50	-4.50	-4.50	-4.50	-4.50	-4.50
	6	6435		-3.50	-3.50	-3.50	-3.50	-3.50	-3.50
		6475		-3.50	-3.50	-3.50	-3.50	-3.50	-3.50
		6515		-3.50	-3.50	-3.50	-3.50	-3.50	-3.50
	7	6535		-3.50	-3.50	-3.50	-3.50	-3.50	-3.50
		6695		-3.50	-3.50	-3.50	-3.50	-3.50	-3.50
		6855		-3.50	-3.50	-3.50	-3.50	-3.50	-3.50
	8	6875		-3.00	-3.00	-3.00	-3.00	-3.00	-3.00
		6995		-3.00	-3.00	-3.00	-3.00	-3.00	-3.00
		7115		-4.50	-4.50	-5.00	-5.00	-5.00	-5.00

Tones: 106T

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)			
				RU Index 53		RU Index 54	
				AUX	Main	AUX	Main
802.11 ax-HE20	5	5955	106T	-2.00	-2.00	-2.00	-2.00
		6175		-1.50	-1.50	-1.50	-1.50
		6415		-1.00	-1.00	-1.00	-1.00
	6	6435		-1.00	-1.00	-1.00	-1.00
		6475		-1.00	-1.00	-1.00	-1.00
		6515		-1.00	-1.00	-1.00	-1.00
	7	6535		-1.00	-1.00	-1.00	-1.00
		6695		-1.00	-1.00	-1.00	-1.00
		6855		-1.00	-1.00	-1.00	-1.00
	8	6875		-0.50	-0.50	-0.50	-0.50
		6995		-0.50	-0.50	-0.50	-0.50
		7115		-0.50	-0.50	0.50	0.50

Tones: 26T									
Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)					
				RU Index 0		RU Index 4		RU Index 8	
				AUX	Main	AUX	Main	AUX	Main
802.11 be-EHT20	5	5955	26T	-8.50	-8.50	-8.50	-8.50	-8.50	-8.50
		6175		-8.00	-8.00	-8.00	-8.00	-8.00	-8.00
		6415		-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
	6	6435		-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
		6475		-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
		6515		-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
	7	6535		-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
		6695		-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
		6855		-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
	8	6875		-6.00	-6.00	-6.00	-6.00	-6.00	-6.00
		6995		-6.00	-6.00	-6.00	-6.00	-6.00	-6.00
		7115		-6.00	-6.00	-6.00	-6.00	-6.00	-6.00

Tones: 52T									
Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)					
				RU Index 37		RU Index 39		RU Index 40	
				AUX	Main	AUX	Main	AUX	Main
802.11 be-EHT20	5	5955	52T	-5.00	-5.00	-5.00	-5.00	-5.00	-5.00
		6175		-4.50	-4.50	-4.50	-4.50	-4.50	-4.50
		6415		-4.50	-4.50	-4.50	-4.50	-4.50	-4.50
	6	6435		-3.50	-3.50	-3.50	-3.50	-3.50	-3.50
		6475		-3.50	-3.50	-3.50	-3.50	-3.50	-3.50
		6515		-3.50	-3.50	-3.50	-3.50	-3.50	-3.50
	7	6535		-3.50	-3.50	-3.50	-3.50	-3.50	-3.50
		6695		-3.50	-3.50	-3.50	-3.50	-3.50	-3.50
		6855		-3.50	-3.50	-3.50	-3.50	-3.50	-3.50
	8	6875		-3.00	-3.00	-3.00	-3.00	-3.00	-3.00
		6995		-3.00	-3.00	-3.00	-3.00	-3.00	-3.00
		7115		-3.00	-3.00	-3.00	-3.00	-3.00	-3.00

Tones: 106T									
Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)					
				RU Index 53		RU Index 54			
				AUX	Main	AUX	Main		
802.11 be-EHT20	5	5955	106T	-2.00	-2.00	-2.00	-2.00		
		6175		-1.50	-1.50	-1.50	-1.50		
		6415		-1.00	-1.00	-1.00	-1.00		
	6	6435		-1.00	-1.00	-1.00	-1.00		
		6475		-1.00	-1.00	-1.00	-1.00		
		6515		-1.00	-1.00	-1.00	-1.00		
	7	6535		-1.00	-1.00	-1.00	-1.00		
		6695		-1.00	-1.00	-1.00	-1.00		
		6855		-1.00	-1.00	-1.00	-1.00		
	8	6875		-0.50	-0.50	-0.50	-0.50		
		6995		-0.50	-0.50	-0.50	-0.50		
		7115		-0.50	-0.50	-0.50	-0.50		

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Tones: 26T+52T									
Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)					
				RU Index 70		RU Index 71		RU Index 72	
				AUX	Main	AUX	Main	AUX	Main
802.11 be-EHT20	5	5955	26T+52T	-3.50	-3.50	-3.50	-3.50	-3.50	-3.50
		6175		-3.50	-3.50	-3.50	-3.50	-3.50	-3.50
		6415		-2.50	-2.50	-2.50	-2.50	-2.50	-2.50
	6	6435		-2.50	-2.50	-2.50	-2.50	-2.50	-2.50
		6475		-2.50	-2.50	-2.50	-2.50	-2.50	-2.50
		6515		-2.50	-2.50	-2.50	-2.50	-2.50	-2.50
	7	6535		-2.50	-2.50	-2.50	-2.50	-2.50	-2.50
		6695		-2.50	-2.50	-2.50	-2.50	-2.50	-2.50
		6855		-2.50	-2.50	-2.50	-2.50	-2.50	-2.50
	8	6875		-2.00	-2.00	-2.00	-2.00	-2.00	-2.00
		6995		-2.00	-2.00	-2.00	-2.00	-2.00	-2.00
		7115		-2.00	-2.00	-2.00	-2.00	-2.00	-2.00

Tones: 26T+106T							
Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)			
				RU Index 82		RU Index 83	
				AUX	Main	AUX	Main
802.11 be-EHT20	5	5955	26T+106T	-3.00	-3.00	-3.00	-3.00
		6175		-2.00	-2.00	-2.00	-2.00
		6415		-1.50	-1.50	-1.50	-1.50
	6	6435		-1.50	-1.50	-1.50	-1.50
		6475		-1.50	-1.50	-1.50	-1.50
		6515		-1.50	-1.50	-1.50	-1.50
	7	6535		-1.50	-1.50	-1.50	-1.50
		6695		-1.50	-1.50	-1.50	-1.50
		6855		-1.50	-1.50	-1.50	-1.50
	8	6875		-1.00	-1.00	-1.00	-1.00
		6995		-1.00	-1.00	-1.00	-1.00
		7115		-1.00	-1.00	-1.00	-1.00

Tones: 484T+242T											
Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)							
				RU Index 90		RU Index 91		RU Index 92		RU Index 92	
				AUX	Main	AUX	Main	AUX	Main	AUX	Main
802.11 be-EHT80	5	5985	484T+242T	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
		6145		6.00	6.00	6.00	6.00	6.00	6.00	6.00	
		6385		7.00	7.00	7.00	7.00	7.00	7.00	7.00	
	6	6465		7.00	7.00	7.00	7.00	7.00	7.00	7.00	
		6545		7.00	7.00	7.00	7.00	7.00	7.00	7.00	
		6625		7.00	7.00	7.00	7.00	7.00	7.00	7.00	
	7	6705		7.00	7.00	7.00	7.00	7.00	7.00	7.00	
		6785		7.50	7.50	7.50	7.50	7.50	7.50	7.50	
		6865		7.50	7.50	7.50	7.50	7.50	7.50	7.50	
	8	6945		7.50	7.50	7.50	7.50	7.50	7.50	7.50	
		7025		8.00	8.00	8.00	8.00	8.00	8.00	8.00	

Tones: 996T+484T												
Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)								
				RU Index 94		RU Index 95		RU Index S94		RU Index S95		
				AUX	Main	AUX	Main	AUX	Main	AUX	Main	
802.11 be-EHT160	5	6025	996T+484T	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	
		6185		11.50	11.50	11.50	11.50	11.50	11.50	11.50		
		6345		13.00	13.00	13.00	13.00	13.00	13.00	13.00		
	6	6505		12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
		7		6665	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
				6825	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	8	6985		13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00

Tones: 996T+484T+242T												
Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)								
				RU Index 96		RU Index 97		RU Index 98		RU Index 99		
				AUX	Main	AUX	Main	AUX	Main	AUX	Main	
802.11 be-EHT160	5	6025	996T+484T+242T	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	
		6185		12.00	12.00	12.00	12.00	12.00	12.00	12.00		
		6345		13.00	13.00	13.00	13.00	13.00	13.00	13.00		
	6	6505		12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	
		7		6665	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00
				6825	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00
	8	6985		13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50

Mode	U-NII Band	Centre Frequency (MHz)	Tones	Average Conducted Output power (dBm)								
				RU Index S96		RU Index S97		RU Index S98		RU Index S99		
802.11 be-EHT160	5	6025	996T+484T+242T	AUX	Main	AUX	Main	AUX	Main	AUX	Main	
		6185		11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	
		6345		12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
	6	6505		13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	
		6665		12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	
		6825		13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	
	7	6985		13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	
		6985		13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	
	8	6985		13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
		6985		13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50

3.9. Tested Supporting System List

3.9.1. Support Peripheral Unit

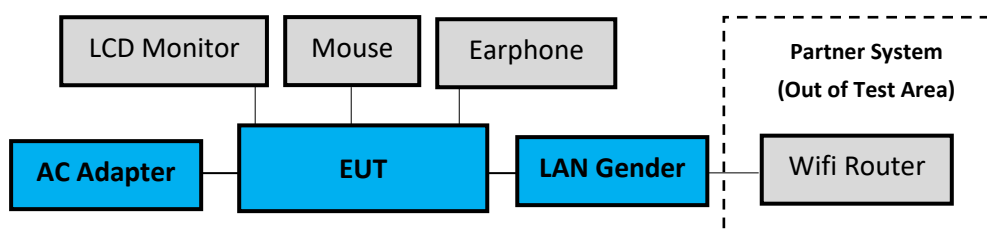
No.	Product	Brand	Model No.	Serial No.	Approval
1.	LCD Monitor	DELL	U2718Qb	CN-0M5R5F-QDC00-99P-04CL	N/A
2.	USB Mouse	Lenovo	SM-8823	8SSM50L24506AVLC99H049R	N/A
3.	Earphone	APPLE	N/A	N/A	N/A
Partner System					
4.	WiFi Router	ASUS	RT-BE96U	RBIG6G200822ZT7	FCC ID: MSQ-RTBE6G00

3.9.2. Cable Lists

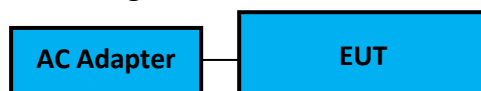
No.	Cable Description Of The Above Support Units
1.	HDMI Cable: Shielded, Detachable, 1.8m AC Power Cord: Unshielded, Detachable, 1.8m
2.	USB Cable: Unshielded, Undetachable, 1.8 m
3.	Earphone Cable: Unshielded, Undetachable, 1.2m
4.	AC adapter: M/N: ADD011, DC Power Cable: Unshielded, Detachable, 1.8m, Bonded two ferrite cores AC Power Cord: Unshielded, Detachable, 1.1m LAN cable: Unshielded, Detachable, 3.0m
5.	LAN Cable: Unshielded, Detachable, 1.8m

3.10. Setup Configuration

3.10.1. EUT Configuration for Power Line & Radiated Emission



3.10.2. EUT Configuration for RF Conducted Test Items



3.11. Operating Condition of EUT

Test program “DRTU” is used for enabling EUT BT or WLAN function under continues transmitting and choosing data rate/ channel.
[ANT AUX port (A Button in DRTU), ANT Main port (B Button in DRTU)].

3.12. Description of Test Facility

Name of Test Firm	Audix Technology Corporation / EMC Department No. 491, Zhongfu Rd., Linkou Dist., New Taipei City 244, Taiwan Tel: +886-2-26092133 Fax: +886-2-26099303 Website : www.audixtech.com Contact e-mail: attemc_report@audixtech.com
Accreditations	The laboratory is accredited by following organizations under ISO/IEC 17025:2017 (1) NVLAP(USA) NVLAP Lab Code 200077-0 (2) TAF(Taiwan) No. 1724
Test Facilities	FCC OET Designation Number under APEC MRA by NCC is : TW1724 ISED CAB Identifier Number under APEC TEL MRA by NCC is TW1724 (1) No.8 Shielded Room (2) No.1 3m Semi Anechoic Chamber

3.13.Measurement Uncertainty

The measurement uncertainty levels have been estimated as specified in ETSI TR 100 028-2001

Test Items/Facilities			Frequency Range	Uncertainty
Conduction Test	☐	No. 7 Shielded Room	9kHz-150kHz	±3.7dB
			150kHz-30MHz	±3.4dB
	☒	No. 8 Shielded Room	9kHz-150kHz	±3.7dB
			150kHz-30MHz	±3.4dB
Radiation Test	☒	No.1 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.0dB
			200MHz-1000MHz, 3m, Horizontal	±4.0dB
			30MHz-200MHz, 3m, Vertical	±4.8dB
			200MHz-1000MHz, 3m, Vertical	±4.5dB
			1GHz-6GHz, 3m	±4.2dB
			6GHz-18GHz, 3m	±4.0dB
	☐	No.3 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.3dB
			200MHz-1000MHz, 3m, Horizontal	±4.0dB
			30MHz-200MHz, 3m, Vertical	±4.7dB
			200MHz-1000MHz, 3m, Vertical	±4.5dB
			1GHz-6GHz, 3m	±4.7dB
			6GHz-18GHz, 3m	±4.4dB
	☐	No.4 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.9dB
			200MHz-1000MHz, 3m, Horizontal	±3.9dB
			30MHz-200MHz, 3m, Vertical	±4.6dB
			200MHz-1000MHz, 3m, Vertical	±4.3dB
			1GHz-6GHz, 3m	±4.6dB
			6GHz-18GHz, 3m	±4.1dB
	☐	No.5 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.4dB
			200MHz-1000MHz, 3m, Horizontal	±4.2dB
			30MHz-200MHz, 3m, Vertical	±4.9dB
			200MHz-1000MHz, 3m, Vertical	±5.1dB
			1GHz-6GHz, 3m	±4.4dB
			6GHz-18GHz, 3m	±4.0dB
	Radiated emissions (18GHz-40GHz)		18GHz-40GHz, 3m	±3.6dB

Remark : Uncertainty = $ku_c(y)$

Test Item	Uncertainty
Maximum Power Spectral Density	±0.5dB
Maximum Conducted Output Power	±0.42dB
Emission Bandwidth	±0.48%
Contention Based Protocol	±2.8%

4. MEASUREMENT EQUIPMENT LIST

4.1. Conducted Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Test Receiver	R&S	ESR3	101774	2025.01.03	1 Year
2.	A.M.N.	R&S	ENV432	101567	2025.06.04	1 Year
3.	L.I.S.N.	Kyoritsu	KNW-407	8-1370-9	2025.02.05	1 Year
4.	Pulse Limiter	R&S	ESH3-Z2	100354	2024.12.07	1 Year
5.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.8 S/R	2025.04.09	1 Year
6.	Signal Cable	Yeida	RG/58AU	CE-08	2025.09.03	1 Year
7.	Test Software	Audix	e3	V9 18621a	N.C.R.	N.C.R.

4.2. Radiated Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A-526	MY53400071	2025.08.07	1 Year
2.	Spectrum Analyzer	Keysight	N9020B	MY57120357	2025.04.04	1 Year
3.	Test Receiver	R&S	ESCS30	100265	2025.06.10	1 Year
4.	Amplifier	HP	8447D	2944A06305	2024.12.16	1 Year
5.	Microwave Preamplifier	HP	8449B	3008A01284	2025.07.07	1 Year
6.	Microwave Amplifier	Keysight	83051A	MY56480113	2025.09.05	1 Year
7.	Loop antenna	Electro-Metrics	EMCI-LPA600	287	2025.07.31	1 Year
8.	Bilog Antenna	TESEQ	CBL6112D	33821	2025.02.08	1 Year
9.	Double-Ridged Waveguide Horn	EMCO	3115	9112-3775	2025.05.06	1 Year
10.	Horn Antenna	COM-POWER	AH-840	101092	2025.01.09	1 Year
11.	Notch Filter	Warison	WFIL-N5925-6425F	WR61CFWC4B1	2025.01.11	1 Year
12.	Notch Filter	Warison	WFIL-N6425-6525F	WR61CFWC6B1	2025.01.11	1 Year
13.	Notch Filter	Warison	WFIL-N6525-6875F	WR61CFWC8B1	2025.01.11	1 Year
14.	Notch Filter	Warison	WFIL-N6875-7125F	WR61CFWC2B1	2025.01.11	1 Year
15.	Coaxial Cable	MIYAZAKI	5D2W	RE-11	2025.01.03	1 Year
16.	Coaxial Cable	HUBER+SUHNER	RG223/U	RE-33	2025.06.10	1年
17.	Coaxial Cable	HUBER+SUHNER	SUCOFLEX 106	RE-14	2025.01.03	1 Year
18.	Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	RE-30	2025.08.19	1 Year
19.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.1 3m A/C	2025.04.09	1 Year
20.	Test Software	Audix	e3	V9 18621a	N.C.R.	N.C.R.

4.3. RF Conducted Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Keysight	N9010B	MY65100101	2025.05.05	1 Year
2.	Power Meter	Anritsu	ML2495A	1145008	2025.06.04	1 Year
3.	Power Sensor	Anritsu	MA2411B	1126096	2025.06.04	1 Year
4.	Digital Thermo-Hygro Meter	iMax	HTC-1	RF-03	2025.04.09	1 Year

4.4. Contention Based Protocol Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9030A-544	US51350140	2024.11.07	1 Year
2.	MXG RF Vector Signal Generator	Agilent	N5182B	MY53050409	2024.11.29	1 Year
3.	Frequency Extender	KEYSIGHT	N5182BX07	MY59362533	2024. 11.29	1 Year
4.	Digital Thermo-Hygro Meter	iMax	HTC-1	RF-03	2025.04.09	1 Year
5.	Attenuator (10dB) X2	Worken	WK0602-10	0120A02208001S	N.C.R	N.C.R
6.	Attenuator (30dB) X1	Worken	WK0602-30	0120A02208002S	N.C.R	N.C.R
7.	CBP Test Unit	Keysight	N.C.R	N.C.R	N.C.R	N.C.R

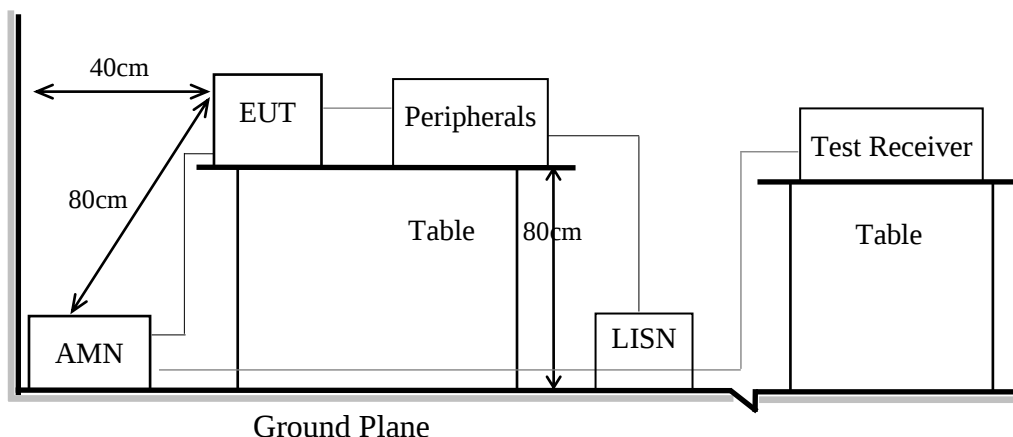
5. CONDUCTED EMISSION

5.1. Block Diagram of Test Setup

5.1.1. Block Diagram of EUT

Indicated as section 3.10

5.1.2. Shielded Room Setup Diagram



5.2. Conducted Emission Limit

Frequency	Conducted Limit	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB μ V	56 ~ 46 dB μ V
500kHz ~ 5MHz	56 dB μ V	46 dB μ V
5MHz ~ 30MHz	60 dB μ V	50 dB μ V

Remark1.: If the average limit is met when using a Quasi-Peak detector, the measurement using the average detector is not required.

2.: The lower limit applies to the band edges.

5.3. Test Procedure

- 5.3.1. To set up the EUT as indicated in ANSI C63.10. The EUT was placed on the table which has 80 cm height to the ground and 40 cm distance to the conducting wall.
- 5.3.2. Power supplier of the EUT was connected to the AC mains through an Artificial Mains Network (A.M.N.).
- 5.3.3. The AC power supplies to all peripheral devices must be provided through line impedance stabilization network (L.I.S.N.)
- 5.3.4. Checking frequency range from 150kHz to 30 MHz and record the emission which does not have 20 dB below limit.

5.4. Test Results

Please refer to Appendix A.

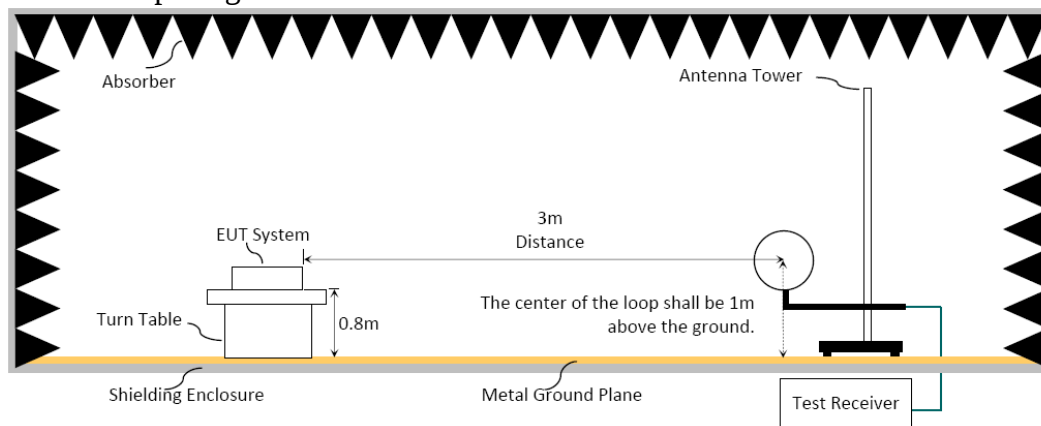
6. RADIATED EMISSION

6.1. Block Diagram of Test Setup

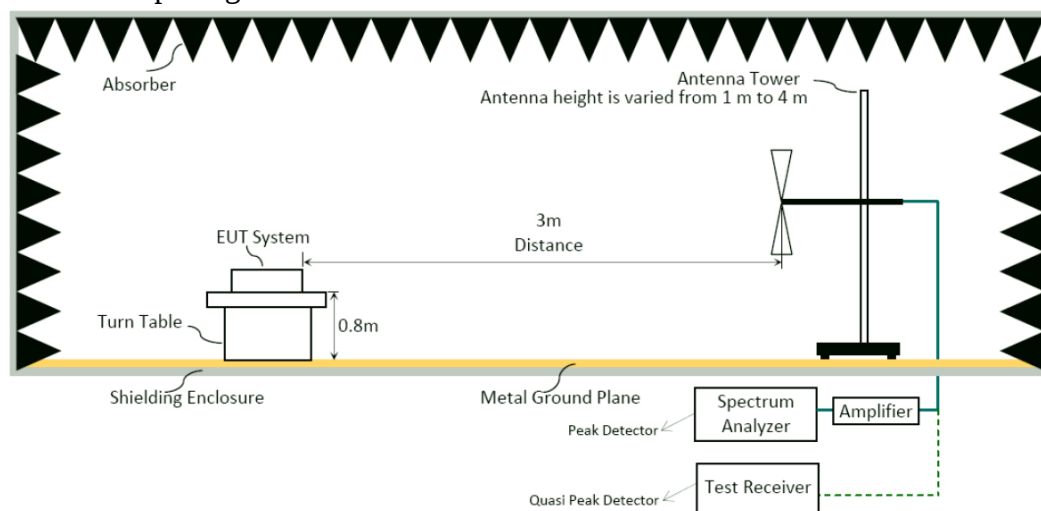
6.1.1. Block Diagram of EUT

Indicated as section 3.10

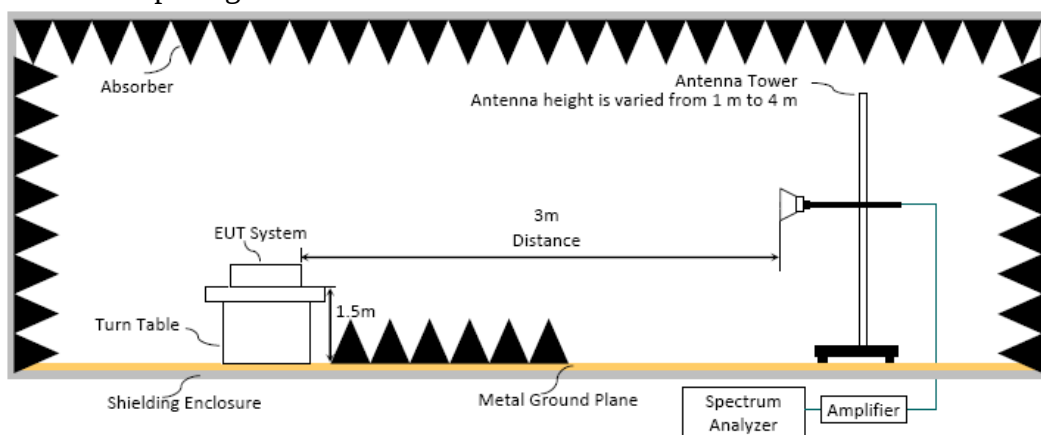
6.1.2. Setup Diagram for 9kHz-30MHz



6.1.3. Setup Diagram for 30-1000MHz



6.1.4. Setup Diagram for above 1GHz



6.2. Radiated Emission Limits

Radiated emissions fall in restricted bands, as defined in FCC Section 15.205 must be in compliance with the radiated emission limits specified in FCC Section 15.209 as below.

6.2.1. General Limit

Frequency (MHz)	Distance(m)	Limits	
		dB μ V/m	μ V/m
0.009 - 0.490	300	67.6-20 log f(kHz)	2400/f kHz
0.490 - 1.705	30	87.6-20 log f(kHz)	24000/f kHz
1.705 - 30	30	29.5	30
30 - 88	3	40.0	100
88- 216	3	43.5	150
216- 960	3	46.0	200
Above 960	3	54.0	500
Above 1000	3	74.0 dB μ V/m (Peak) 54.0 dB μ V/m (Average)	

Remark : (1) dB μ V/m = 20 log (μ V/m)

- (2) The tighter limit applies to the edge between two frequency bands.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (4) Fundamental and emission fall within operation band are exempted from this section.
- (5) Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

6.2.2. Limit for non-restricted frequency above 1 GHz

Frequency Band (MHz)	E.I.R.P. Limit	Field Strength Limit at 3 m
Out of 5925 to 7125	-27 dBm/MHz	68.2 dB μ V/m

Note: Field Strength at 3 m= E.I.R.P. + 95.2 dB

6.3. Test Procedure

Frequency Range 9kHz~30MHz:

The EUT setup on the turntable which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2020 regulation.

- (1) RBW = 9kHz with peak and average detector.
- (2) Detector: average and peak (9kHz-490kHz)
Q.P. (490kHz-30MHz)

Frequency Range 30MHz ~ 40GHz:

The EUT setup on the turn table which has 80cm (for 30-1000MHz) and 1.5m (for above 1GHz) height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2020 regulation.

6.3.1. Radiated measurement Spectrum Analyzer Setting

6.3.1.1 Frequency below 1GHz:

Spectrum Analyzer is used for pre-testing with following setting:

- (1) RBW = 120kHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

Note 1: When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required, otherwise using Q.P. for final measurement.

Note 2: When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

6.3.1.2 Frequency above 1GHz to 10th harmonic (up to 40 GHz):

Peak Detector:

- (1) RBW = 1MHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

Note: When peak-detected value is lower than limit that the measurement using the average detector is not required, otherwise using average detector for final measurement.

Average Detector:**■ Option 1:**

(1) RBW = 1MHz

(2) VBW $\geq 1/T$. (Duty Cycle < 98%, when duty cycle presented in section 3.7)

(3) VBW = set VBW $\leq$ RBW / 100, but not less than 10Hz (Duty Cycle $\geq$ 98%, when duty cycle presented in section 3.7)

Mode	VBW Setting (Hz)
802.11a	490
802.11ax-HE20	490
802.11ax-HE40	410
802.11ax-HE80	800
802.11ax-HE160	190
802.11be-EHT20	420
802.11be-EHT40	350
802.11be-EHT80	690
802.11be-EHT160	180
RU (26T)	360
RU (52T)	360
RU (106T)	390
MRU (26T+52T)	270
MRU (26T+106T)	240
MRU (484T+242T)	560
MRU (996T+484T)	240
MRU (996T+484T+242T)	270

(4) Detector = Peak.

(5) Sweep time = auto.

(6) Trace mode = max hold.

(7) Allow sweeps to continue until the trace stabilizes.

□ Option 2:

Average Emission Level = Peak Emission Level + D.C.C.F.

6.3.2. Radiated band edge measurement Spectrum Analyzer Setting

For without 99% OBW edge within 2 MHz of the authorized band edge:

The spectrum analyzer setting, please refer to section 6.3.1.2

For with 99% OBW edge within 2 MHz of the authorized band edge:

Per KDB 789033 Section G.3.d and ANSI C63.10 -2013 6.10.4, SA setting as below:

a. Fundamental field strength of SA setting:

The spectrum analyzer setting, please refer to section 6.3.1.2

b. Delta of SA setting:

- (1) RBW = 1% SPAN but no less than 30 KHz
(In this case, RBW = 500 KHz)
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

Correction Factor(Via delta, dB)= Fundamental Emission Level(dB μ V/m)@RBW
500KHz- Band Edge Emission Level(dB μ V/m)@RBW 500kHz

Band Edge Emission Level (dB μ V/m) =
Fundamental Emission Level (dB μ V/m)@RBW 1MHz – Marker Delta (dB)

6.4. Measurement Result Explanation

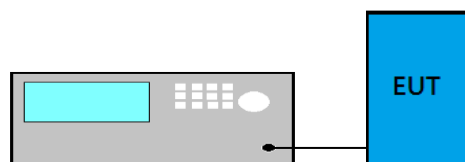
- ☒ Peak Emission Level(dB μ V/m)=Antenna Factor(dB/m) + Cable Loss (dB)– Preamp Gain (dB)+ Reading(dB μ V).
- ☒ Average Emission Level(dB μ V/m)= Antenna Factor(dB/m) + Cable Loss (dB)– Preamp Gain (dB)+ Reading(dB μ V).
- ☐ Average Emission Level(dB μ V/m)= Peak Emission Level(dB μ V/m)+ DCCF(dB)
Duty Cycle Correction Factor (DCCF)(dB)= $20\log(TX_{on}/TX_{on+off})$ presented in section 3.7.
- ☐ ERP(dBm)= Peak Emission Level(dB μ V/m) -95.2dB-2.14dB
- ☐ Band Edge Emission Level (dB μ V/m) = Fundamental Emission Level (dB μ V/m) – Marker-Delta (dB)

6.5. Test Results

Please refer to Appendix A.

7. MAXIMUM POWER SPECTRAL DENSITY

7.1. Block Diagram of Test Setup



7.2. Specification Limits

For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed -1dBm e.i.r.p. in any 1-megahertz band

7.3. Test Procedure

Following measurement procedure is reference to KDB 789033 D02 General UNII Test Procedures New Rules v02r01:

■ Method AVGSA-2 (Spectrum channel power)

- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 MHz
- (3) Set the video bandwidth (VBW) ≥ 3 MHz.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Use peak search function to find out the maximum power density.
- (8) Duty cycle factor is added when duty cycle presented in section 3.7 is $< 98\%$.

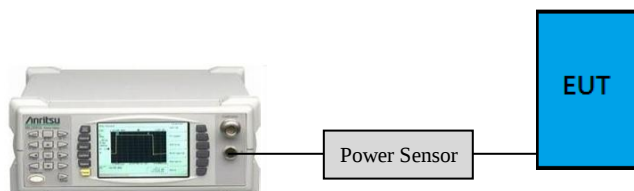
For power density emission measurements from multiple outputs of a transmitter or from multiple transmitters: Please refer to KDB 662911 E 2) c).

7.4. Test Results

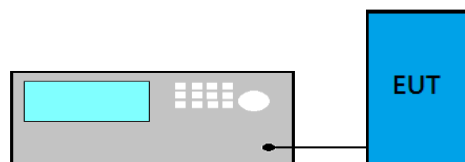
Please refer to Appendix A

8. MAXIMUM CONDUCTED OUTPUT POWER

8.1. Block Diagram of Test Setup



- For 802.11ac-VHT80/160, 802.11ax-HE160 modes only



8.2. Specification Limits

For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

8.3. Test Procedure

Following measurement procedure is reference to KDB 789033 D02 General UNII Test Procedures New Rules v02r01:

■ Method AVGPM (Measurement using an RF average power meter):

EUT is connected to power sensor and record the maximum average output power and duty cycle factor is added when duty cycle presented in section 3.7 is < 98%.

■ Method AVGSA-2 (Spectrum channel power) for 802.11ac-VHT80/160, 802.11ax-HE80/160 modes only

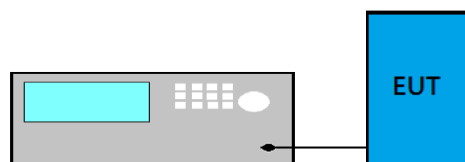
- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 MHz
- (3) Set the video bandwidth (VBW) ≥ 3 MHz.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges.
- (8) Duty cycle factor is added when duty cycle presented in section 3.7 is < 98%.

8.4. Test Results

Please refer to Appendix A

9. EMISSION/OCCUPIED BANDWIDTH

9.1. Block Diagram of Test Setup



9.2. Specification Limits

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

9.3. Test Procedure

Following measurement procedure is reference to KDB 789033 D02 General UNII Test Procedures New Rules v02r01:

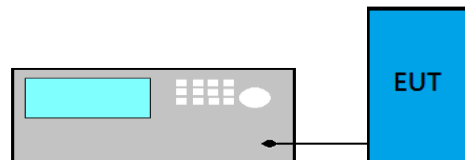
- (1) Set RBW = 1% of the emission bandwidth
- (2) Set VBW > RBW
- (3) Detector = Peak
- (4) Trace mode = max hold
- (5) Setting channel bandwidth function x dB to -26 dB to record the final bandwidth.

9.4. Test Results

Please refer to Appendix A

10. UNDERSIRABLE EMISSIONS LIMITS: SPURIOUS EMISSION (CONDUCTED)

10.1. Block Diagram of Test Setup



10.2. Spurious Emission Specification Limits

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925- 7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1 MHz. When average radiated emission measurements are specified in this part, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. Unless otherwise specified, e.g., see FCC Part §§ 15.250, 15.252, 15.253(d), 15.255, 15.256, and 15.509 through 15.519, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device, e.g., the total peak power level

10.3. Test Procedure

Please refer to KDB 789033 D02 v02r01 G5

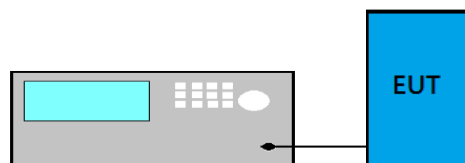
For spurious emission measurements from multiple outputs of a transmitter or from multiple transmitters: Please refer to KDB 662911 E 3) a) (iii).

10.4. Test Results

Please refer to Appendix A

11. IN-BAND EMISSION (CHANNEL MASK)

11.1. Block Diagram of Test Setup



11.2. Specification Limits

For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

11.3. Test Procedure

Following measurement procedure is reference to KDB 987594 D02 U-NII 6GHz EMC Measurement v01v01:

Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:

- (a) Set the span to encompass the entire 26 dB EBW of the signal.
- (b) Set RBW = same RBW used for 26 dB EBW measurement.
- (c) Set VBW $\geq 3 \times$ RBW
- (d) Number of points in sweep $\geq (2 \times \text{span} / \text{RBW})$.
- (e) Sweep time = auto.
- (f) Detector = RMS (i.e., power averaging)
- (g) Trace average at least 100 traces in power averaging (rms) mode.
- (h) Use the peak search function on the instrument to find the peak of the spectrum.

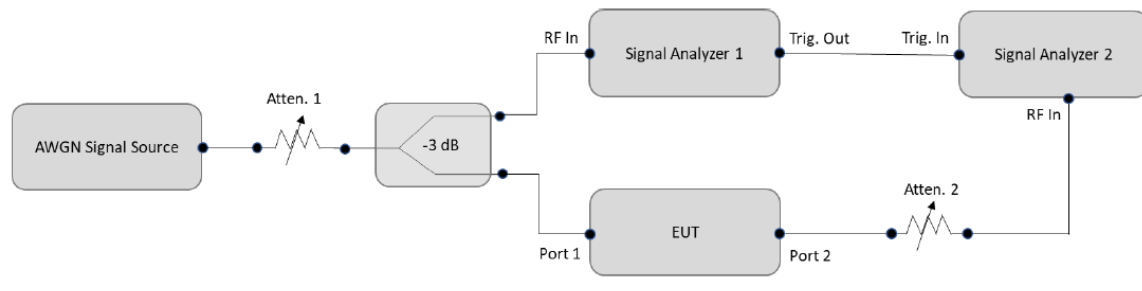
- (1) Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - (a) Suppressed by 20 dB at 1 MHz outside of the channel edge.
 - (b) Suppressed by 28 dB at one channel bandwidth from the channel center.
 - (c) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
 - (2) Adjust the span to encompass the entire mask as necessary.
 - (3) Clear trace.
 - (4) Trace average at least 100 traces in power averaging (rms) mode.
- Adjust the reference level as necessary so that the crest of the channel touches the top

11.4. Test Results

Please refer to Appendix A

12. CONTENTION BASED PROTOCOL

12.1. Block Diagram of Test Setup



12.2. Spurious Emission Specification Limits

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band must employ a contention-based protocol

FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01v01

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm)¹. The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

Table 1. Criteria to determine number of times detection threshold test may be performed

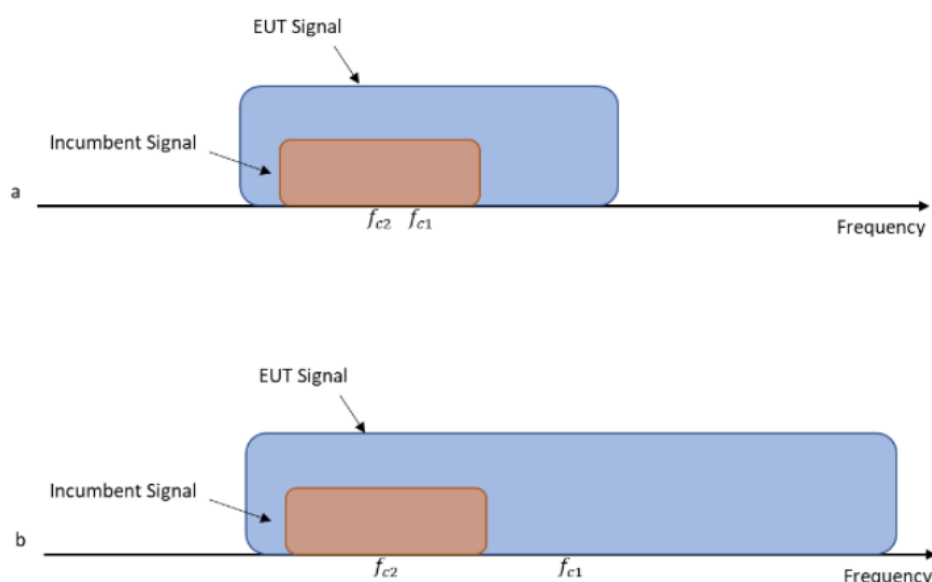
If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	One	Tune incumbent and EUT transmission ($f_{c1} = f_{c2}$)
$BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$	One	Incumbent transmission is contained within BW_{EUT}
$2BW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel

Where:

 BW_{EUT} : Transmission bandwidth of EUT signal

 BW_{Inc} : Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal)

 f_{c1} : Center frequency of EUT transmission

 f_{c2} : Center frequency of simulated incumbent signal

Figure 1. Two possible scenarios where a) center frequency of EUT transmission falls within incumbent's bandwidth, or b) outside of it

12.3. Test Procedure

Following measurement procedure is reference to KDB 987594 D02 U-NII 6GHz EMC Measurement v01v01:

- (1) To ensure EUT reliably detects an incumbent signal in both scenarios shown in Figure 1, the detection threshold test may be repeated more than once with the incumbent signal (having center frequency f_{c2}) tuned to different center frequencies within the EUT transmission bandwidth. The criteria specified in Table 1 determines how many times the detection threshold test must be performed
- (2) Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- (3) Monitor the signal analyzer to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- (4) (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
- (5) Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 2, choose a different center frequency for the AWGN signal and repeat the process.
- (6) The test tool is "LAN test" to let the EUT to transmit with a constant duty cycle.

12.4. Test Results

Please refer to Appendix A



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13.DEVIATION TO TEST SPECIFICATIONS

【NONE】



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APPENDIX A

TEST DATA AND PLOTS

(Model: 16Z95U)



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APPENDIX B

TEST PHOTOGRAPHS

(Model: 16Z95U)