

FCC 15.407 NII 5GHz 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)16U70Q (2)16UD70Q
(3)16UB70Q (4)16UG70Q
Brand : LG
FCC ID : BEJNT-16U70Q

Prepared by: : AUDIX Technology Corporation,
EMC Department



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.

TABLE OF CONTENTS

Description	Page
TEST REPORT.....	4
1. REVISION RECORD OF TEST REPORT	5
2. SUMMARY OF TEST RESULTS	6
3. GENERAL INFORMATION	7
3.1. Description of Application	7
3.2. Description of EUT	8
3.3. Reference Test Guidance.....	9
3.4. Antenna Information	9
3.5. EUT Specifications Assessed in Current Report	10
3.6. Description of Key Components	13
3.7. Test Configuration	15
3.8. Output Power Setting	24
3.9. Tested Supporting System List.....	27
3.10. Setup Configuration.....	27
3.11. Operating Condition of EUT	28
3.12. Description of Test Facility	28
3.13. Measurement Uncertainty	29
4. MEASUREMENT EQUIPMENTLIST.....	30
4.1. Conducted Emission Measurement	30
4.2. Radiated Emission Measurement	31
4.3. RF Conducted Measurement	31
5. CONDUCTED EMISSION.....	32
5.1. Block Diagram of Test Setup	32
5.2. Conducted Emission Limit	32
5.3. Test Procedure	32
5.4. Test Results	33
6. RADIATED EMISSION	34
6.1. Block Diagram of Test Setup	34
6.2. Radiated Emission Limits.....	35
6.3. Test Procedure	37
6.4. Measurement Result Explanation.....	38
6.5. Test Results	38
7. EMISSION/OCCUPIED BANDWIDTH.....	39
7.1. Block Diagram of Test Setup	39
7.2. Specification Limits.....	39
7.3. Test Procedure	39
7.4. Test Results	39
8. MAXIMUM OUTPUT POWER	40
8.1. Block Diagram of Test Setup	40
8.2. Specification Limits.....	40
8.3. Test Procedure	41
8.4. Test Results	41
9. POWER SPECTRAL DENSITY	42
9.1. Block Diagram of Test Setup	42



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9.2. Specification Limits.....	42
9.3. Test Procedure	42
9.4. Test Results	42
10. FREQUENCY STABILITY	43
10.1. Block Diagram of Test Setup	43
10.2. Specification Limits.....	43
10.3. Test Procedure	43
10.4. Test Results	43
11. DEVIATION TO TEST SPECIFICATIONS	44

APPENDIX A TEST DATA AND PLOTS

APPENDIX B TEST PHOTOGRAPHS

TEST REPORT

Applicant : LG Electronics Inc.
Manufacturer : LG Electronics Inc.
Factory : LG Electronics Nanjing New Technology Co., Ltd.
EUT Description
(1) Product : Notebook Computer
(2) Model : (1)16U70Q (2)16UD70Q (3)16UB70Q (4)16UG70Q
(3) Brand : LG
(4) Power Supply: DC 19V, 3.42A

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.

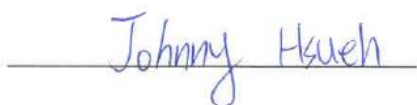
Date of Report: 2022. 04. 01

Reviewed by:



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1. REVISION RECORD OF TEST REPORT

Edition No	Issued Date	Revision Summary	Report Number
0	2022. 04. 01	Original Report	EM-F220181

2. SUMMARY OF TEST RESULTS

Rule	Description	Results
15.207	Conducted Emission	PASS
15.205/15.209	Radiated Band Edge and Radiated Spurious Emission	PASS
15.407(a)(5)/15.407(e)	Emission/Occupied Bandwidth	PASS
15.407(a)	Maximum Output Power	PASS
15.407(b)	Conducted Band Edges	N/A
15.407(a)	Power Spectral Density	PASS
15.407	Frequency Stability	PASS
15.203	Antenna Requirement	Compliance
Note: The uncertainties value is not used in determining the result.		

3. GENERAL INFORMATION

3.1. Description of Application

Applicant	LG Electronics Inc. 222, LG-ro, Jinwi-myeon Pyeongtaek-Si, Gyeonggi-Do, 17709 Republic of Korea
Manufacturer	LG Electronics Inc. 222, LG-ro, Jinwi-myeon Pyeongtaek-Si, Gyeonggi-Do, 17709 Republic of Korea
Factory	LG Electronics Nanjing New Technology Co., Ltd. No.346, Yaoxin Road, Economic & Technical Development Zone, Nanjing, China.
Product	Notebook Computer
Model	(1)16U70Q (2)16UD70Q (3)16UB70Q (4)16UG70Q The difference between all models is different in the sales customers.
Brand	LG

3.2. Description of EUT

Test Model	16U70Q		
Serial Number	N/A		
Power Rating	DC 19V, 3.42A		
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 Bluetooth: BT and BLE (BT 5.0)		
Transmit Type	2.4 GHz		
	802.11b		1T1R
	802.11g		1T1R
	802.11n-HT20		2T2R
	802.11n-HT40		2T2R
	802.11ax-HE20		2T2R
	802.11ax-HE40		2T2R
	BT/BLE		1T1R
	U-NII Bands		
	802.11a		1T1R
	802.11n-HT20/802.11ac-VHT20/802.11ax-HE20		2T2R
	802.11n-HT40/802.11ac-VHT40/802.11ax-HE40		2T2R
	802.11ac-VHT80/802.11ax-HE80		2T2R
	802.11ac-VHT160/802.11ax-HE160		2T2R
	The MIMO is uncorrelated and supported SDM mode only.		
Device Category	☐ Outdoor Access Point		
	☐ Fixed point-to-point Access Point		
	☐ Indoor Access Point		
	☒ Mobile and Portable client device		
Test Sample	Sample No.	Test Item	Firmware
	03	AC Conduction, Radiated, RF Conducted	N/A
Sample Status	Trial sample		
Date of Receipt	2022. 03. 11		
Date of Test	2022. 03. 15 ~ 30		

Interface Ports of EUT	• One HDMI Port • One USB Type C Port • One Earphone Port • One Micro SD Card Slot • Two USB 3.0 Ports • One DC IN Port
Accessories Supplied	• AC Adapter • LAN Gender

3.3. Reference Test Guidance

KDB 789033 D02 General UNII Test Procedures New Rules v02r01
ANSI C63.10:2013

3.4. Antenna Information

No.	Antenna Part Number	Manufacturer	Antenna Type	Frequency (MHz)	Max Gain(dBi)	
					Main	AUX
1.	WA-P-LE-02-080	INPAQ	Mono-Pole	2400	2.6	2.7
				2450	2.7	2.2
				2500	3.4	1.5
				5150	5.6	5.3
				5400	5.7	5.4
				5850	5.8	5.2
Note 1. 2.4G: Directional gain = $10 \log[(10^{3.4/10} + 10^{2.7/10})/2]$ = 3.06dBi						
Note 2. UNII Band (1/2A/2C/3): Directional gain = $10 \log[(10^{5.8/10} + 10^{5.4/10})/2]$ = 5.60dBi						

3.5. EUT Specifications Assessed in Current Report

Mode	U-NII Band	Fundamental Range (MHz)	Channel Number
802.11a	1	5180-5240	4
	2A	5260-5320	4
	2C	5500-5720	12
	3	5745-5825	5
802.11n-HT20/ 802.11ac-VHT20 802.11ax-HE20	1	5180-5240	4
	2A	5260-5320	4
	2C	5500-5720	12
	3	5745-5825	5
802.11n-HT40/ 802.11ac-VHT40 802.11ax-HE40	1	5190-5230	2
	2A	5270-5310	2
	2C	5510-5710	6
	3	5755-5795	2
802.11ac-VHT80 802.11ax-HE80	1	5210	1
	2A	5290	1
	2C	5530-5690	3
	3	5775	1
802.11ac-VHT160 802.11ax-HE160	1	5250	1
	2A		
	2C	5570	1
Remark: U-NII Band 2A and 2C (DFS Function, Slave/no In service monitor, no Ad-Hoc mode)			

Mode	Modulation	Data Rate (Mbps)
802.11a	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 54
802.11n-HT20	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 144.4
802.11n-HT40		Up to 300
802.11ac-VHT20	OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)	Up to 173.3
802.11ac-VHT40		Up to 400
802.11ac-VHT80		Up to 866.7
802.11ac-VHT160		Up to 1733.3
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

Channel List					
802.11a/802.11n-HT20/802.11ac-VHT20/802.11ax-HE20					
U-NII Band	Channel Number	Frequency (MHz)	U-NII Band	Channel Number	Frequency (MHz)
1	36	5180	2C	120	5600
	40	5200		124	5620
	44	5220		128	5640
	48	5240		132	5660
2A	52	5260		136	5680
	56	5280		140	5700
	60	5300		144	5720
	64	5320		149	5745
2C	100	5500	3	153	5765
	104	5520		157	5785
	108	5540		161	5805
	112	5560		165	5825
	116	5580			

Channel List					
802.11n-HT40/802.11ac-VHT40/802.11ax-HE40					
U-NII Band	Channel Number	Frequency (MHz)	U-NII Band	Channel Number	Frequency (MHz)
1	38	5190	2C	118	5590
	46	5230		126	5630
2A	54	5270		134	5670
	62	5310		142	5710
2C	102	5510	3	151	5755
	110	5550		159	5795

Channel List					
802.11ac-VHT80/802.11ax-HE80					
U-NII Band	Channel Number	Frequency (MHz)	U-NII Band	Channel Number	Frequency (MHz)
1	42	5210	2C	138	5690
2A	58	5290	3	155	5775
2C	106	5530			
	122	5610			

Channel List					
802.11ac-VHT160/802.11ax-HE160					
U-NII Band	Channel Number	Frequency (MHz)	U-NII Band	Channel Number	Frequency (MHz)
1	50	5250	2C	114	5570
2A					

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	Windows 11 Home	---
Main Board	LG	16U70Q MAIN B/D PCB	Manufacturer: #1 HannstarBoardTech(Jiang Yin)Corp.,Ltd. #2 Elec&Eltek Company (MCO) Limited.
WLAN SUB Board	LG	16U70Q SUB B/D	Manufacturer: #1 HannstarBoardTech(Jiang Yin)Corp.,Ltd. #2 Elec&Eltek Company (MCO) Limited.
CPU (Socket: BGA1140)	AMD	AMD Ryzen7 5825U	2.0GHz
	AMD	AMD Ryzen5 5625U	2.3GHz
	AMD	AMD Ryzen3 5300U	2.6GHz
16" LCD Panel	LG Display	LP160WU1(SP)(H1)	WUXGA (1920*1200) IPS LCD
	LG Display	LP160WQ1(SP)(B2)	WQXGA (2560*1600) IPS LCD, 60Hz
Storage (SSD)	SK hynix	HFM001TD3JX013N	1TB
		HFM512GD3JX013N	512GB
		HFM256GD3JX013N	256GB
	Samsung	MZVLQ1T0HBLB-00B00	1TB
		MZVLQ512HBLU-00B00	512GB
		MZVLQ256HBJD-00B00	256GB
Memory (RAM)	Samsung	K4UBE3D4AA-MGCR	16GB LPDDR4x 4266 MHz (On Board)
		K4U6E3S4AA-MGCR	8GB LPDDR4x 4266 MHz (On Board)
	SK Hynix	H9HCNNNCPMMLXR-NEE	16GB LPDDR4x 4266 MHz (On Board)
		H9HCNNNBKMMMLXR-NEE	8GB LPDDR4x 4266 MHz (On Board)
Battery Pack	LG	LBZ722DM	72Wh, DC7.76V, Typ9279mAh
WLAN Combo Card	Intel	AX200NGW	FCC ID: PD9AX200NG IC: 1000M-AX200NG NCC ID: CCAH19LP0850T0
WLAN Combo Antenna	LG (INPAQ)	WA-P-LE-02-080	PCB, Mono-pole Type Main: Black, Aux: Gray
Touch Panel Module	Lite-On	EBD63285207	-
	Elan	EBD62827905	-
Web Camera	Luxvisions Innovation Limited	1BF115N3	HD Webcam with Mic
LAN Gender (Type C to LAN) (Optional)	SUZHOU MEC ELECTRONICS	80-5946-111	(White) 10/100Megabit Ethernet
		80-5946-101	(Black) 10/100 Megabit Ethernet
		80-5946-230	(White) 10/100/1000 Megabit Ethernet
		80-5946-240	(Black) 10/100/1000 Megabit Ethernet
	Type C to LAN: Shielded, Undetached, 0.12m		
	ARIN TECH CO. LTD	GD-08MF-36-WH-LP10	(White) 10/100Megabit Ethernet
		GD-08MF-36-BK-LP11	(Black) 10/100 Megabit Ethernet
		GD-08MF-50-WH-LP12	(White) 10/100/1000 Megabit Ethernet
		GD-08MF-50-BK-LP13	(Black) 10/100/1000 Megabit Ethernet
	Type C to LAN: Shielded, Undetached, 0.12m		
	HUIZHOU DEHONG TECHNOLOGY CO.,LTD	370-50713	(White) 10/100Megabit Ethernet
		370-50714	(Black) 10/100 Megabit Ethernet
	Type C to LAN: Shielded, Undetached, 0.12m		
AC Adapter	LG (HONOR)	ADS-65AI-19-3 1906E	Manufacturer: HONOR I/P: AC 100-240V, 1.5A, 50/60Hz O/P: DC 19V, 3.42A
		DC Power Cord: Non-Shielded, Undetached, 1.5m AC Power Cord: Non-Shielded, Detached, 1.8m (3C)	

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:

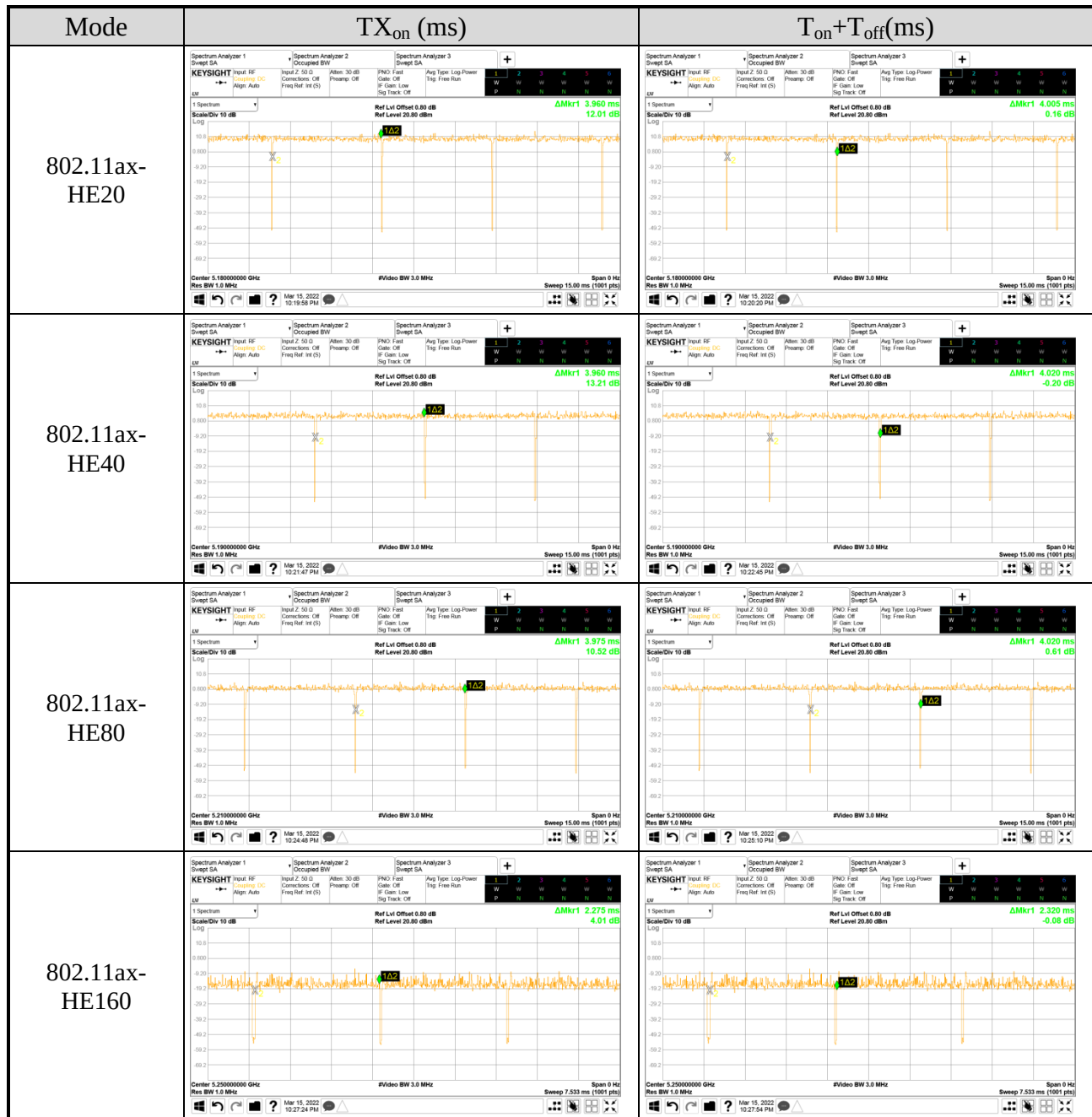
SKU (Mode) 1		
Main Board		LG, 16U70Q MAIN B/D PCB
SUB Board		LG, 16U70Q SUB B/D
CPU		AMD, AMD Ryzen7 5825U, 2.0GHz
16" LCD Panel		LG Display, LP160WQ1(SP)(B2)
Storage (SSD)		SK hynix, 1TB
		SK hynix, 256GB
Memory (RAM)		16GB
Battery Pack		LG, LBZ722DM, 72Wh
Web Camera		Luxvisions, 1BF115N3
Touch Panel Module		Lite-On
WLAN Combo Card		Intel, AX200NGW
WLAN Combo Antenna		LG (INPAQ), WA-P-LE-02-080
AC Adapter		LG (HONOR), ADT-65AI-19-3 19065E
Type C	Link to LAN Gender	ARIN, 10/100/1000Mbps

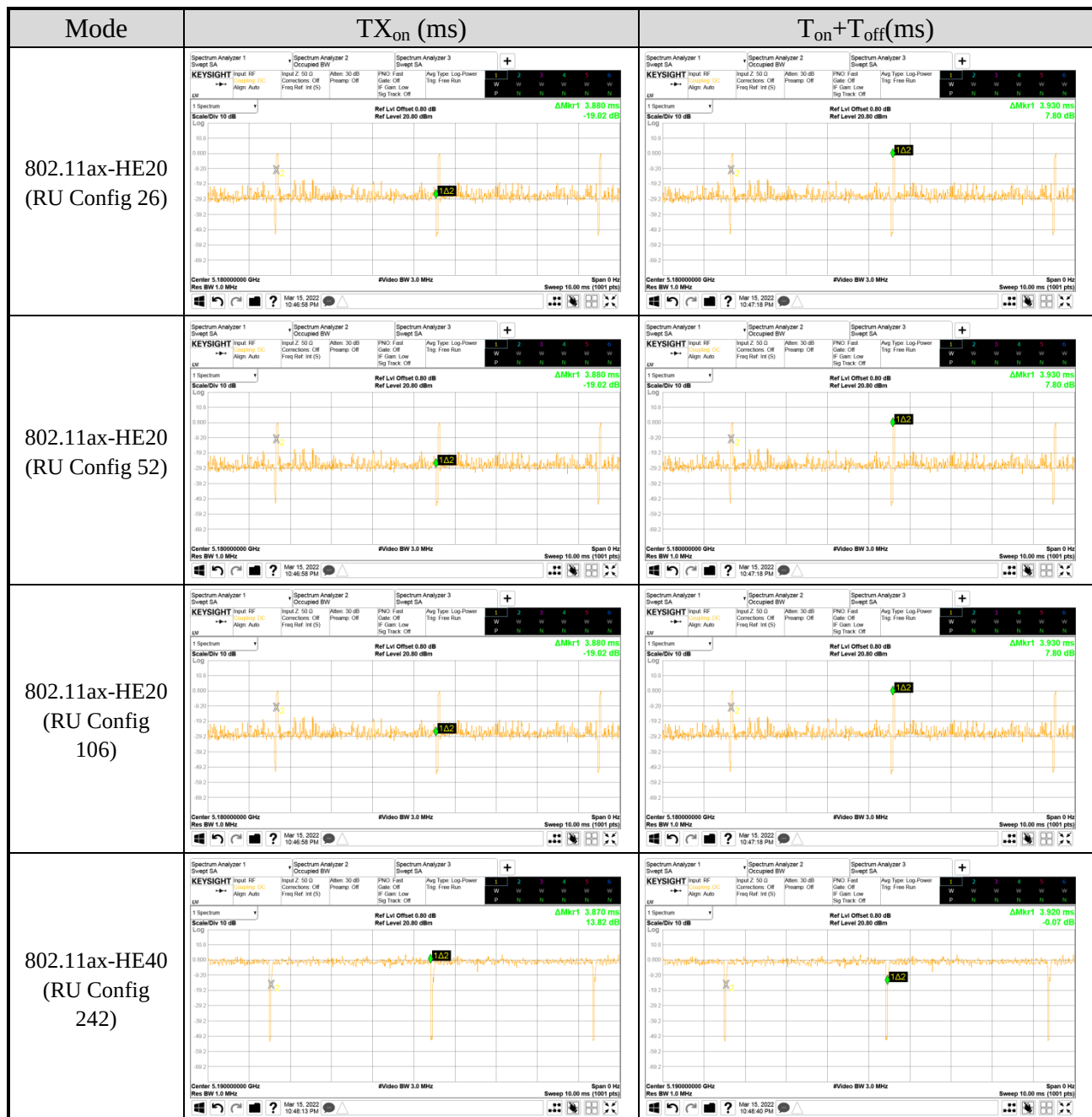
3.7. Test Configuration

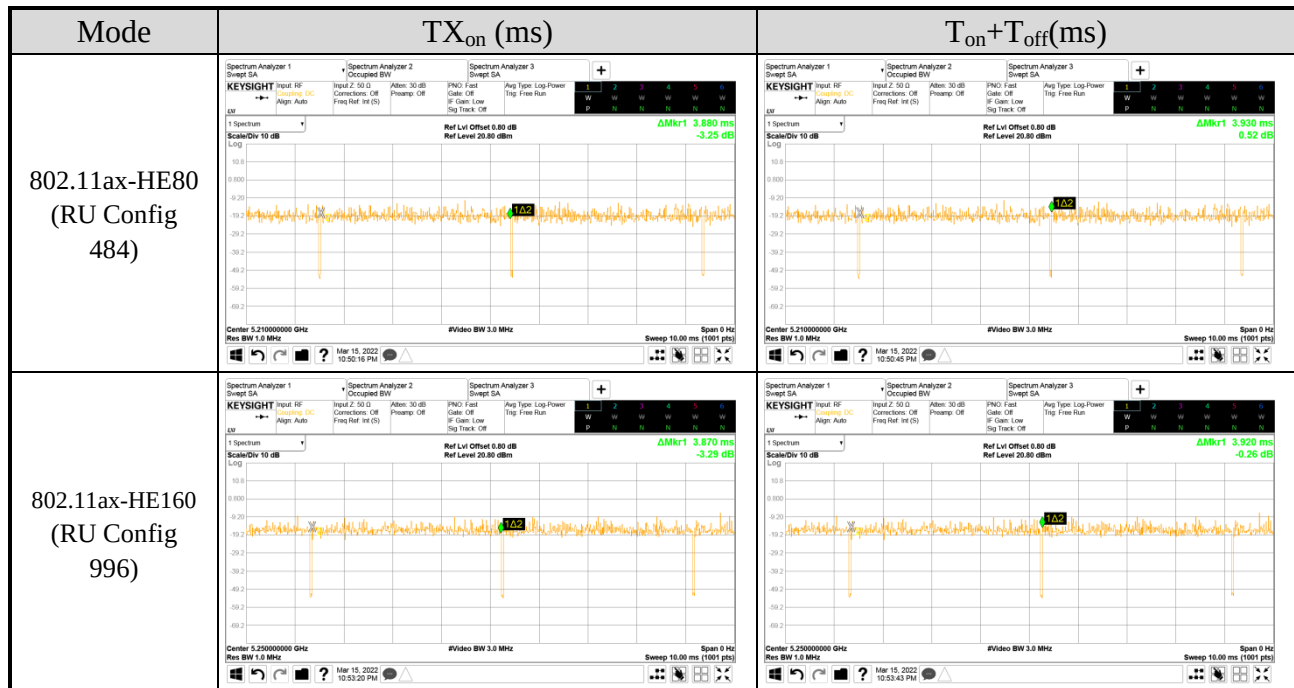
Mode	TX _{on} (ms)	TX _{on+off} (ms)	Duty Cycle (x)	Duty Cycle Factor [10log(1/x)] (dB)
802.11a	2.090	2.130	0.981	N/A
802.11n-HT20	7.920	7.960	0.995	N/A
802.11n-HT40	7.920	7.960	0.995	N/A
802.11ac-VHT80	7.880	7.940	0.992	N/A
802.11ac-VHT160	5.520	5.565	0.992	N/A
802.11ax-HE20	3.960	4.005	0.989	N/A
802.11ax-HE40	3.960	4.020	0.985	N/A
802.11ax-HE80	3.975	4.020	0.989	N/A
802.11ax-HE160	2.275	2.320	0.981	N/A
802.11ax-HE20 (RU Config 26)	3.880	3.930	0.987	N/A
802.11ax-HE20 (RU Config 52)	3.880	3.930	0.987	N/A
802.11ax-HE20 (RU Config 106)	3.880	3.930	0.987	N/A
802.11ax-HE40 (RU Config 242)	3.870	3.920	0.987	N/A
802.11ax-HE80 (RU Config 484)	3.880	3.930	0.987	N/A
802.11ax-HE160 (RU Config 996)	3.870	3.920	0.987	N/A

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.









AC Conduction				
Normal operation				

Item		Mode	Data Rate	Test Channel
Radiated Test Case	Radiated Spurious Emission (30MHz~1GHz)	802.11n-HT40	MCS8	110

Item		Mode	Data Rate	Test Channel
Radiated Test Case	Radiated Band Edge Note1	802.11a	6 Mbps	36/64/100/140/144/149/165
		802.11n-HT20	MCS8	36/64/100/140/144/149/165
		802.11n-HT40	MCS8	38/62/102/134/142/151/159
		802.11ac-VHT80	MCS0	42/58/106/122/138/155
		802.11ac-VHT160	MCS0	50/114
		802.11ax-HE20	HE0	36/64/100/140/144/149/165
		802.11ax-HE40	HE0	38/62/102/134/142/151/159
		802.11ax-HE80	HE0	42/58/106/122/138/155
		802.11ax-HE160	HE0	50/114
	Radiated Spurious Emission Note1 & 2	802.11a	6 Mbps	48/64/116/144/157
		802.11n-HT20	MCS8	36/64/116/144/149
		802.11n-HT40	MCS8	38/54/110/142/151
		802.11ac-VHT80	MCS0	42/58/106/138/155
		802.11ac-VHT160	MCS0	50/114
		802.11ax-HE20	HE0	36/64/116/144/149
		802.11ax-HE40	HE0	38/54/110/142/151
		802.11ax-HE80	HE0	42/58/106/138/155
		802.11ax-HE160	HE0	50/114

Item		Mode	Data Rate	RU Configuration	Test Channel
Radiated Test Case	Radiated Band Edge Note1	802.11ax-HE20	HE0	26/0	36/100/149
				52/37	
				106/53	
		802.11ax-HE20	HE0	26/8	64/140/165
				52/40	
				106/54	
		802.11ax-HE40	HE0	242/61	38/102/151
			HE0	242/62	62/134/159
		802.11ax-HE80	HE0	484/65	42/106/155
			HE0	484/66	58/122/155
		802.11ax-HE160	HE0	996/67	50/114
			HE0	996/S67	50/114
			HE0	996/S67	50/114

Item		Mode	Data Rate	Test Channel
Conducted Test Case	Emission/Occupied Bandwidth	802.11a	6 Mbps	36/40/48/52/60/64/100/116/140/144/149/157/165
		802.11n-HT20	MCS8	36/40/48/52/60/64/100/116/140/144/149/157/165
		802.11n-HT40	MCS8	38/46/54/62/102/110/134/142/151/159
		802.11ac-VHT80	MCS0	42/58/106/122/138/155
		802.11ac-VHT160	MCS0	50/114
		802.11ax-HE20	HE0	36/40/48/52/60/64/100/116/140/144/149/157/165
		802.11ax-HE40	HE0	38/46/54/62/102/110/134/142/151/159
		802.11ax-HE80	HE0	42/58/106/122/138/155
		802.11ax-HE160	HE0	50/114
	Maximum output power	802.11a	6 Mbps	36/40/48/52/60/64/100/116/140/144/149/157/165
		802.11n-HT20	MCS8	36/40/48/52/60/64/100/116/140/144/149/157/165
		802.11n-HT40	MCS8	38/46/54/62/102/110/134/142/151/159
		802.11ac-VHT80	MCS0	42/58/106/122/138/155
		802.11ac-VHT160	MCS0	50/114
		802.11ax-HE20	HE0	36/40/48/52/60/64/100/116/140/144/149/157/165
		802.11ax-HE40	HE0	38/46/54/62/102/110/134/142/151/159
		802.11ax-HE80	HE0	42/58/106/122/138/155
		802.11ax-HE160	HE0	50/114
	Power spectral density	802.11a	6 Mbps	36/40/48/52/60/64/100/116/140/144/149/157/165
		802.11n-HT20	MCS8	36/40/48/52/60/64/100/116/140/144/149/157/165
		802.11n-HT40	MCS8	38/46/54/62/102/110/134/142/151/159
		802.11ac-VHT80	MCS0	42/58/106/122/138/155
		802.11ac-VHT160	MCS0	50/114
		802.11ax-HE20	HE0	36/40/48/52/60/64/100/116/140/144/149/157/165
		802.11ax-HE40	HE0	38/46/54/62/102/110/134/142/151/159
		802.11ax-HE80	HE0	42/58/106/122/138/155
		802.11ax-HE160	HE0	50/114

Item		Mode	Data Rate	RU Configuration	Test Channel
Conducted Test Case	Emission/ Occupied Bandwidth	802.11ax-HE20	HE0	26/0	36/100/149
				52/37	
				106/53	
		802.11ax-HE20	HE0	26/8	64/140/165
				52/40	
				106/54	
		802.11ax-HE40	HE0	242/61	38/102/151
			HE0	242/62	62/134/159
		802.11ax-HE80	HE0	484/65	42/106/155
			HE0	484/66	58/122/155
Conducted Test Case	Maximum output power	802.11ax-HE20	HE0	26/0	36/100/149
				52/37	
				106/53	
		802.11ax-HE20	HE0	26/8	64/140/165
				52/40	
				106/5	
		802.11ax-HE40	HE0	242/61	38/102/151
			HE0	242/62	62/134/159
		802.11ax-HE80	HE0	484/65	42/106/155
			HE0	484/66	58/122/155
		802.11ax-HE160	HE0	996/67	50/114
			HE0	996/S67	50/114

Item		Mode	Data Rate	RU Configuration	Test Channel
Conducted Test Case	Power spectral density	802.11ax-HE20	HE0	26/0	36/100/149
				52/37	
				106/53	
		802.11ax-HE40	HE0	26/8	64/140/165
				52/40	
				106/54	
		802.11ax-HE40	HE0	242/61	38/102/151
			HE0	242/62	62/134/159
		802.11ax-HE80	HE0	484/65	42/106/155
			HE0	484/66	58/122/155
		802.11ax-HE160	HE0	996/67	50/114
			HE0	996/S67	50/114

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 modulation and bandwidth are similar for 802.11n mode for HT20/HT40 and 802.11ac mode for VHT20/VHT40, therefore investigated worst case to representative mode in the test report.

Note 4: The data rates were selected based on preliminary testing that identified rate as the worst case for output power.

3.8. Output Power Setting

Mode	U-NII Band	Centre Frequency (MHz)	Power Setting	
			Chain 0 (AUX)	Chain 1 (Main)
802.11a	1	5180	14.500	14.500
		5200	14.500	14.500
		5240	14.500	14.500
	2A	5260	14.500	14.500
		5300	14.500	14.500
		5320	14.500	14.500
	2C	5500	14.500	14.500
		5580	14.500	14.500
		5700	14.500	14.500
		5720	14.500	14.500
	3	5745	14.500	14.500
		5785	14.500	14.500
		5825	14.500	14.500

Mode	U-NII Band	Centre Frequency (MHz)	Power Setting	Mode	U-NII Band	Centre Frequency (MHz)	Power Setting
802.11n- HT20	1	5180	14.500	802.11ax- HE20	1	5180	14.500
		5200	14.500			5200	14.500
		5240	14.500			5240	14.500
	2A	5260	14.500		2A	5260	14.500
		5300	14.500			5300	14.500
		5320	14.500			5320	14.500
	2C	5500	14.500		2C	5500	14.500
		5580	14.500			5580	14.500
		5700	14.500			5700	14.500
		5720	14.500			5720	14.500
	3	5745	14.500		3	5745	14.500
		5785	14.500			5785	14.500
		5825	14.500			5825	14.500

Mode	U-NII Band	Centre Frequency (MHz)	Power Setting	Mode	U-NII Band	Centre Frequency (MHz)	Power Setting
802.11n-HT40	1	5190	14.500	802.11ax-HE40	1	5190	14.500
		5230	14.500			5230	14.500
	2A	5270	14.500		2A	5270	14.500
		5310	14.000			5310	11.750
	2C	5510	14.500		2C	5510	14.500
		5550	14.500			5550	14.500
		5670	14.500			5670	14.500
		5710	14.500			5710	14.500
	3	5755	14.500		3	5755	14.500
		5795	14.500			5795	14.500

Mode	U-NII Band	Centre Frequency (MHz)	Power Setting	Mode	U-NII Band	Centre Frequency (MHz)	Power Setting
802.11ac-VT80	1	5210	14.500	802.11ax-HE80	1	5210	14.500
	2A	5290	13.000		2A	5290	13.250
	2C	5530	14.500		2C	5530	14.500
		5610	14.500			5610	14.500
		5690	14.500			5690	14.500
	3	5775	14.500		3	5775	14.500

Mode	U-NII Band	Centre Frequency (MHz)	Power Setting	Mode	U-NII Band	Centre Frequency (MHz)	Power Setting
802.11ac-VT160	1 / 2A	5250	10.750	802.11ax-HE160	1 / 2A	5250	10.750
	2C	5570	13.000		2C	5570	13.000

Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Setting
802.11ax-HE20	1	5180	26/0	10.000
			52/37	13.000
			106/53	14.500
	2A	5320	26/8	10.000
			52/40	13.000
			106/54	14.500
	2C	5500	26/0	10.000
			52/37	13.000
			106/53	14.500
		5700	26/8	10.000
			52/40	13.000
			106/54	14.500
	3	5745	26/0	7.750
			52/37	14.000
			106/53	14.500
		5825	26/8	14.500
			52/40	14.500
			106/54	14.500
802.11ax-HE40	1	5190	242/61	14.500
	2A	5310	242/62	14.500
	2C	5510	242/61	14.500
		5670	242/62	14.500
	3	5755	242/61	14.500
		5795	242/62	14.500
802.11ax-HE80	1	5210	484/65	12.500
	2A	5290	484/66	11.250
	2C	5530	484/65	14.500
		5610	484/66	14.500
	3	5775	484/65	14.500
			484/66	14.500
802.11ax-HE160	1/ 2A	5250	996/67	14.500
			996/S67	12.750
	2C	5570	996/67	14.500
			996/S67	14.500

3.9. Tested Supporting System List

3.9.1. Support Peripheral Unit

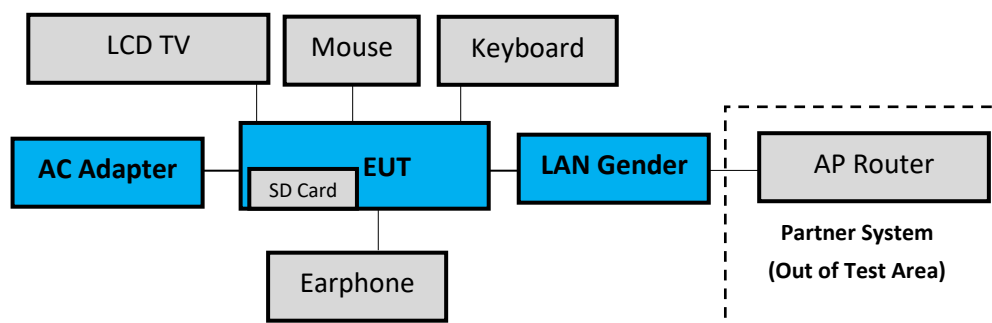
No.	Product	Brand	Model No.	Serial No.	Approval
1.	TV	LG	22LK330-DB	N/A	N/A
2.	USB Mouse	hp	M0FYU0	9CP0442V5P	N/A
3.	USB Keyboard	KU-1156	BDMJF0EVBB1046	BDMJF0EVBB1046	N/A
4.	Earphone	APPLE	N/A	N/A	N/A
5.	SD Card	ADATA	MicroSDHC Card	N/A	N/A
Partner System					
6.	AP Router	NETGEAR	RAXE500	N/A	FCC ID: PY320300508

3.9.2. Cable Lists

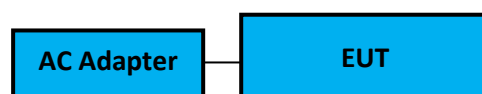
No.	Cable Description Of The Above Support Units
1.	HDMI Cable: Shielded, Detachable, 1.2m AC Power Cord: Unshielded, Detachable, 1.8m
2.	USB Cable: Unshielded, Undetachable, 1.5m
3.	USB Cable: Unshielded, Undetachable, 1.8m
4.	Earphone Cable: Unshielded, Undetachable, 1.2m
5.	N/A
6.	AC adapter: M/N:2ABS060K, DC Cable: Unshielded, Detachable, 1.8m AC Cord: Wall-mounted: 2C LAN cable: Unshielded, Detachable, 3.0m

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 WLAN function under continues transmitting and choosing data rate/ channel.

[Chain 0 is aux port (A Button in DRTU) Chain 1 is 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

Test Items/Facilities			Frequency Range	Uncertainty
Conduction Test			9kHz-150kHz	±3.7dB
			150kHz-30MHz	±3.4dB
Radiation Test	☒	No.1 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.8dB
			200MHz-1000MHz, 3m, Horizontal	±4.1dB
			30MHz-200MHz, 3m, Vertical	±4.5dB
			200MHz-1000MHz, 3m, Vertical	±4.5dB
			1GHz-6GHz, 3m	±4.7dB
			6GHz-18GHz, 3m	±4.1dB
			18GHz-40GHz, 3m	±3.52dB
	☐	No.3 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.9dB
			200MHz-1000MHz, 3m, Horizontal	±4.2dB
			30MHz-200MHz, 3m, Vertical	±4.3dB
			200MHz-1000MHz, 3m, Vertical	±4.5dB
	☐	No.4 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.1dB
			200MHz-1000MHz, 3m, Horizontal	±4.5dB
			30MHz-200MHz, 3m, Vertical	±4.4dB
			200MHz-1000MHz, 3m, Vertical	±4.8dB
			1GHz-6GHz, 3m	±5.0dB
			6GHz-18GHz, 3m	±4.7dB
	☐	No.5 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.2dB
			200MHz-1000MHz, 3m, Horizontal	±4.3dB
			30MHz-200MHz, 3m, Vertical	±4.3dB
			200MHz-1000MHz, 3m, Vertical	±4.7dB
			1GHz-6GHz, 3m	±4.8dB
			6GHz-18GHz, 3m	±4.5dB

Remark : Uncertainty = $ku_c(y)$

Test Items	Uncertainty
Bandwidth	± 0.2kHz
Maximum output power	± 0.33dB
Power spectral density	± 0.13dB

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	2022. 01. 11	1 Year
2.	A.M.N.	R&S	ENV432	101567	2021. 04. 21	1 Year
3.	L.I.S.N.	Kyoritsu	KNW-407	8-855-9	2021. 12. 19	1 Year
4.	Pulse Limiter	R&S	ESH3-Z2	100354	2021. 12. 23	1 Year
5.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.8 S/R	2021. 04. 15	1 Year
6.	Coaxial Cable	Yeida	RG/58AU	CE-08	2021. 09. 13	1 Year
7.	Test Software	Audix	e3	V6.120619c	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	2021. 09. 09	1 Year
2.	Spectrum Analyzer	Agilent	N9030A-526	MY53310269	2022. 01. 13	1 Year
3.	Spectrum Analyzer	Keysight	N9010B-544	MY55460198	2021. 04. 14	1 Year
4.	Test Receiver	R&S	ESCI7	100923	2022 03. 02	1 Year
5.	Amplifier	HP	8447D	2944A06305	2022 01 05	1 Year
6.	Microwave Amplifier	Keysight	83051A	MY53010042	2021. 07. 30	1 Year
7.	Microwave Amplifier	Agilent	8449B	3008A02678	2022 02. 02	1 Year
8.	Loop Antenna	ETS· LINDGREN	6512	00035867	2021. 09. 29	1 Year
9.	Bilog Antenna	TESEQ	CBL6112D	33821	2021. 07. 16	1 Year
10.	Double-Ridged Waveguide Horn	EMCO	3115	9609-4927	2021. 07 02	1 Year
11.	Horn Antenna	COM-POW ER	AH-840	101092	2022. 01. 06	1 Year
12.	5G Notch Filter	Microwave Circuits	N0452502	459775	2021. 05. 05	1 Year
13.	5G Notch Filter	Microwave Circuits	N0555983	504921	2021. 08. 04	1 Year
14.	5G Notch Filter	Microwave Circuits	N0257881	459776	2021. 08. 16	1 Year
15.	Coaxial Cable	MIYAZAKI	5D2W	RE-11	2022. 01. 20	1 Year
16.	Coaxial Cable	HUBER+SU HNER	SUCOFLEX 106	RE-14	2022. 01. 20	1 Year
17.	Coaxial Cable	HUBER+SU HNER	SUCOFLEX 102	RE-30	2021. 05. 25	1 Year
18.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.3 3m A/C	2021. 04. 15	1 Year
19.	Test Software	Audix	e3	V6.120619c	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-526	MY57410128	2021.12.29	1 Year
2.	Power Meter	Anritsu	ML2495A	2127005	2022.11.30	1 Year
3.	Power Meter	Anritsu	ML2495A	2127004	2021.12.09	1 Year
4.	Power Sensor	Anritsu	MA2411B	1911360	2021.12.02	1 Year
5.	Power Sensor	Anritsu	MA2411B	1911356	2021.12.09	1 Year
6.	Digital Thermo-Hygro Meter	iMax	HTC-1	RF-03	2022.11.30	1 Year

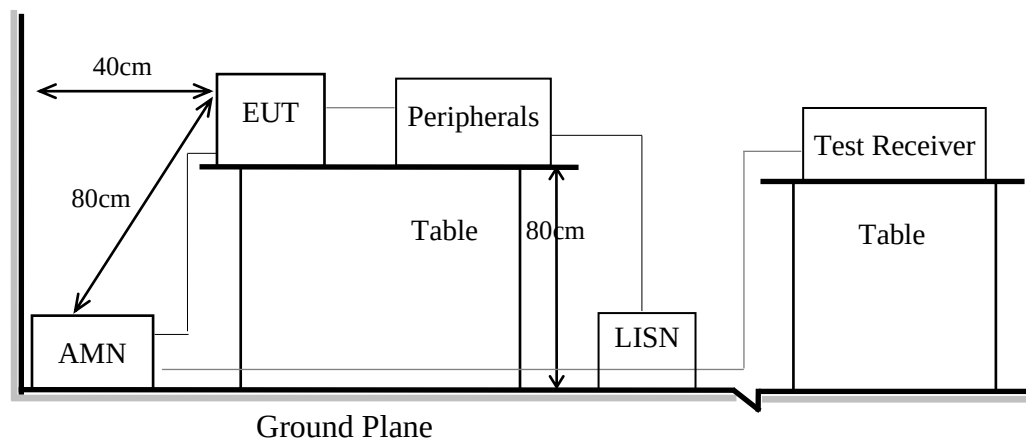
5. CONDUCTED EMISSION

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.

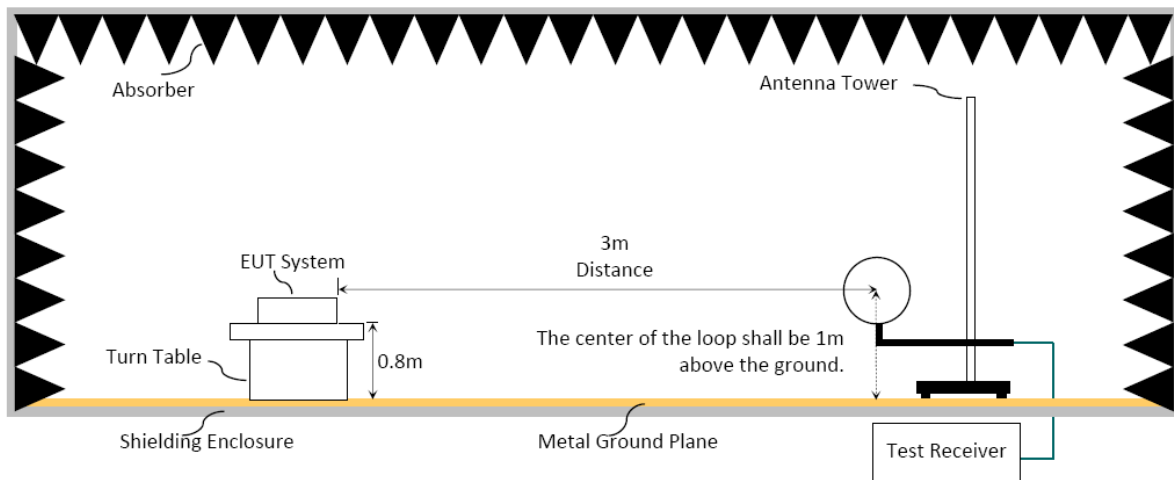
6. RADIATED EMISSION

6.1. Block Diagram of Test Setup

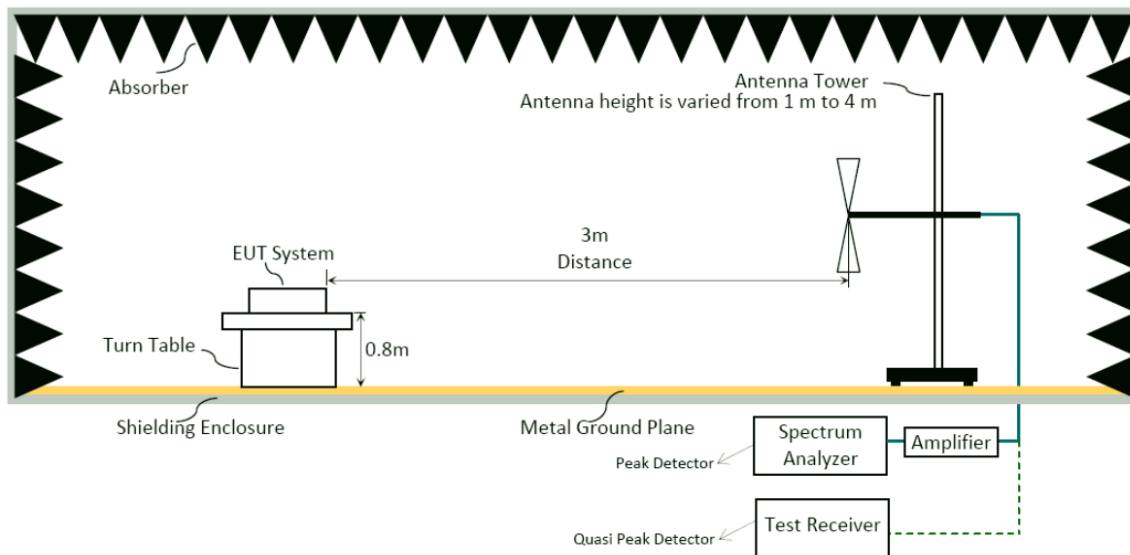
6.1.1. Block Diagram of EUT

Indicated as section 3.10

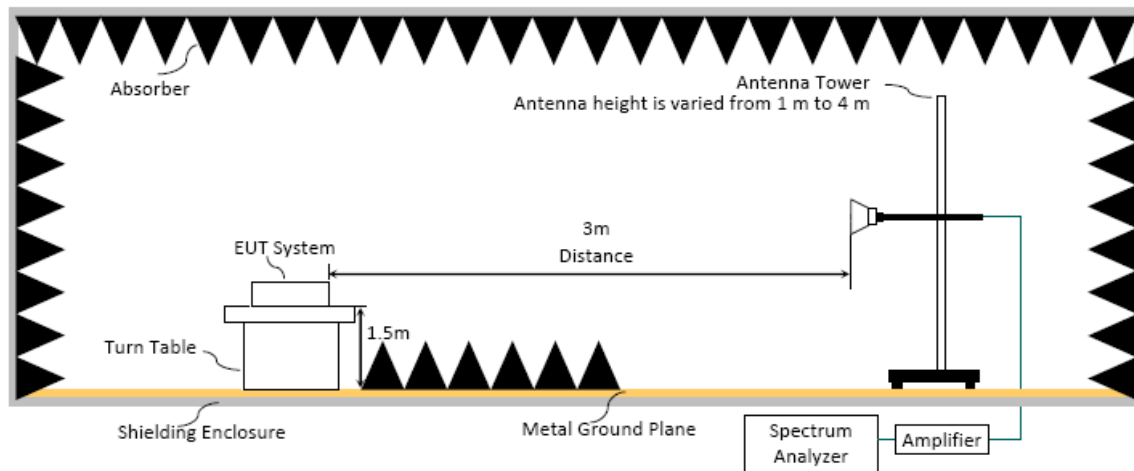
6.1.2. Setup Diagram for 9kHz-30MHz



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 Section 15.205 must be in compliance with the radiated emission limits specified in 15.209 as below.

6.2.1. General Limit

Frequency (MHz)	Distance(m)	Limits	
		$\text{dB}\mu\text{V/m}$	$\mu\text{V/m}$
0.009 - 0.490	300	$67.6 - 20 \log f(\text{kHz})$	$2400/f \text{ kHz}$
0.490 - 1.705	30	$87.6 - 20 \log f(\text{kHz})$	$24000/f \text{ kHz}$
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	$74.0 \text{ dB}\mu\text{V/m}$ (Peak) $54.0 \text{ dB}\mu\text{V/m}$ (Average)	

Remark : (1) $\text{dB}\mu\text{V/m} = 20 \log (\mu\text{V/m})$

(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.

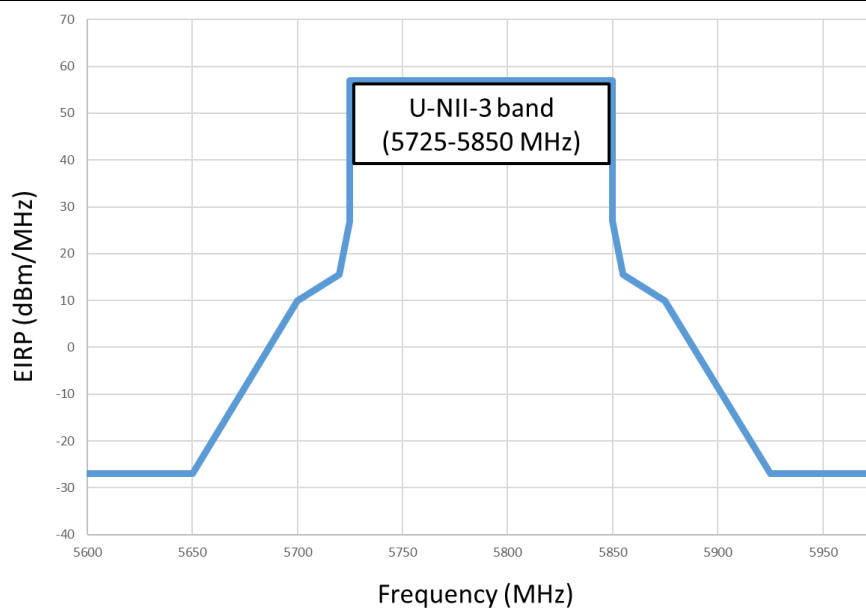
(5) Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

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
5150 to 5250	-27 dBm	68.2
5250 to 5350		68.2
5470 to 5725		68.2

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

Frequency Band (MHz)	Field Strength Limit at 3 m	
5725 to 5850	☒	15.407(b)(4)(i) All emissions shall be limited to a level of 68.2 dBμV/m at 75 MHz or more above or below the band edge increasing linearly to 105.2dBμV/m at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 110.8 dBμV/m at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 68.2 dBμV/m at the band edge.
	☐	15.407(b)(4)(ii) ,compliance with the emission limits in § 15.247(d) Shall be at least 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power,. Attenuation below the general limits specified in §15.209(a) is not required. In addition,radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))



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 C63.10-2013 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 C63.10-2013 regulation.

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.

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)

Modulation Type	VBW Setting
802.11a	1kHz
802.11n-HT20	1kHz
802.11n-HT40	1kHz
802.11ac-VHT80	1kHz
802.11ac-VHT160	1kHz
802.11ax-HE20	1kHz
802.11ax-HE40	1kHz
802.11ax-HE80	1kHz
802.11ax-HE160	1kHz
802.11ax-HE20 (RU Config 26)	1kHz
802.11ax-HE20 (RU Config 52)	1kHz
802.11ax-HE20 (RU Config 106)	1kHz
802.11ax-HE40 (RU Config 242)	1kHz
802.11ax-HE80 (RU Config 484)	1kHz
802.11ax-HE160 (RU Config 996)	1kHz

- (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(dB μ V/m)= Peak Emission Level(dB μ V/m)+ DCCF(dB).

6.4. Measurement Result Explanation

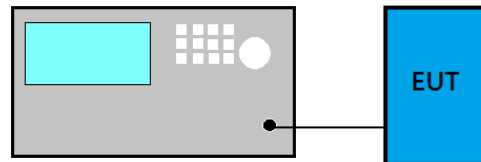
- ☒ Peak Emission Level(dB μ V/m)=Antenna Factor(dB/m) + Cable Loss (dB)– Preamp Gain (dB)+ Reading(dB μ V).
- ☒ Average Emission Level(dB μ V/m)= Antenna Factor(dB/m) + Cable Loss (dB)– Preamp Gain (dB)+ Reading(dB μ V).
- ☐ Average Emission Level(dB μ V/m)= Peak Emission Level(dB μ V/m)+ DCCF(dB)
Duty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

6.5. Test Results

Please refer to Appendix A.

7. EMISSION/OCCUPIED BANDWIDTH

7.1. Block Diagram of Test Setup



7.2. Specification Limits

Frequency Band (MHz)	Limit
5150 to 5250	Reference only
5250 to 5350	
5470 to 5725	
5725 to 5850	$\geq 500\text{kHz}$

7.3. Test Procedure

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

■ Applicable to all bands except to 5725 MHz- 5850 MHz

- (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.

■ 5725 MHz- 5850 MHz

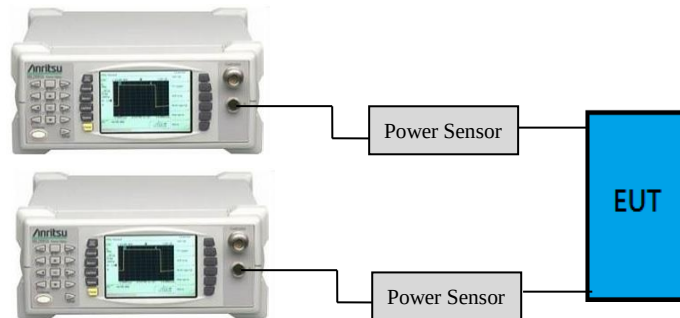
- (1) Set RBW = 100 kHz.
- (2) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- (3) Detector = Peak.
- (4) Trace mode = max hold.
- (5) Sweep = auto couple.
- (6) Allow the trace to stabilize.
- (7) Setting channel bandwidth function x dB to -6 dB to record the final bandwidth.

7.4. Test Results

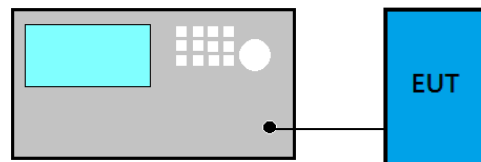
Please refer to Appendix A

8. MAXIMUM OUTPUT POWER

8.1. Block Diagram of Test Setup



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



8.2. Specification Limits

Frequency Band (MHz)	Category	Limit
5150 to 5250	Outdoor Access Point	1 W(30 dBm)/ Max e.i.r.p. ≤ 125 mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon
	Fixed point-to-point Access Point	1 W(30 dBm)
	Indoor Access Point	1 W(30 dBm)
	Mobile and Portable client device	250 mW(24 dBm)
5250 to 5350	N/A	250 mW or $11 \text{ dBm} + 10 \log B^{\text{Note1}}$
5470 to 5725		250 mW or $11 \text{ dBm} + 10 \log B^{\text{Note1}}$
5725 to 5850		1 W(30 dBm)

Note 1: B is the 26 dB emission bandwidth, which presented in section 7 and appendix A.1.

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**

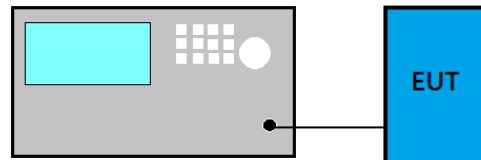
- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 MHz
- (3) Set the video bandwidth (VBW) ≥ 3 MHz.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Compute power by integrating the spectrum across the OBW of the signal using the 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 3.6 is < 98%.

8.4. Test Results

Please refer to Appendix A

9. POWER SPECTRAL DENSITY

9.1. Block Diagram of Test Setup



9.2. Specification Limits

Frequency Band (MHz)	Category	Limit
5150 to 5250	Outdoor Access Point	17dBm/MHz
	Fixed point-to-point Access Point	
	Indoor Access Point	
	Mobile and Portable client device	11 dBm/MHz
5250 to 5350	N/A	11 dBm/MHz
5470 to 5725		11 dBm/MHz
5725 to 5850		30dBm/500 kHz

9.3. Test Procedure

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

■ Method AVGSA-2 (Spectrum channel power)

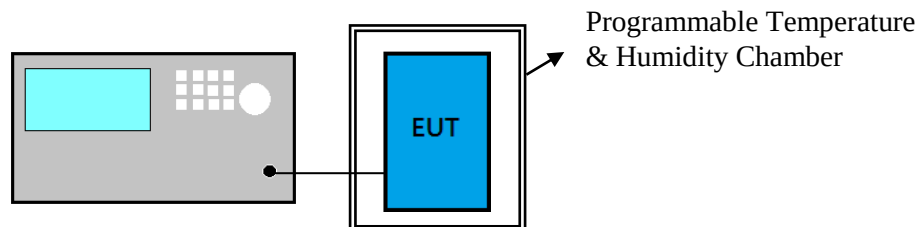
- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 MHz
- (3) Set the video bandwidth (VBW) ≥ 3 MHz.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Use peak search function to find out the maximum power density.
- (8) Duty cycle factor is added when duty cycle presented in section 3.6 is $< 98\%$.

9.4. Test Results

Please refer to Appendix A

10. FREQUENCY STABILITY

10.1. Block Diagram of Test Setup



10.2. Specification Limits

NONE

10.3. Test Procedure

- (1) Frequency: Test frequency.
- (2) Span: enough to cover the complete power envelope
- (3) RBW: 1MHz(modulation ON) ; 10KHz(CW)
- (4) VBW: 1MHz(modulation ON) ; 10KHz(CW)
- (5) Detector Mode: Positive Peak
- (6) Indication mode: Max hold
- (7) Find the peak frequency and take calculate by the formula:
(Measurement Value-declaration frequency)/ declaration frequency)

10.4. Test Results

Please refer to Appendix A

11.DEVIATION TO TEST SPECIFICATIONS

【NONE】



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APPDNDIX A

TEST DATA AND PLOTS

(Model: 16U70Q)



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APPDNDIX B

TEST PHOTOGRAPHS

(Model: 16U70Q)