

FCC Radio Test Report

FCC ID: 2AU6R04359

Report No. : BTL-FCCP-4-2508C743
Equipment : 802.11be (WiFi 7) Triple-Radio PoE Access Point
Model Name : NWA240BE
Brand Name : ZYXEL
Applicant : Zyxel Networks Corporation
Address : No.2 Industry East RD.IX, Hsinchu Science Park, Hsinchu 30075, Taiwan, R.O.C
Manufacturer : Zyxel Networks Corporation
Address : No.2 Industry East RD.IX, Hsinchu Science Park, Hsinchu 30075, Taiwan, R.O.C

Equipment Class : 6ID - 15E 6 GHz Low Power Indoor Access Point
Radio Function : U-NII 6 GHz (U-NII 5, U-NII 6, U-NII 7, U-NII 8)
FCC Rule Part(s) : FCC CFR Title 47, Part 15, Subpart E (15.407)
Measurement Procedure(s) : ANSI C63.10-2020

Date of Receipt : 2025/9/25
Date of Test : 2025/10/22 ~ 2026/2/12
Issued Date : 2026/4/16

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** assumes no responsibility for the data provided by the Customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by **BTL**.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-4-2508C743	R00	Original Report.	2026/4/16	Valid

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
15.407(a)	Maximum e.i.r.p.	APPENDIX A	PASS	-----
15.203 15.407(a)	Antenna requirement	-----	PASS	-----
15.407(a)	Maximum transmitter channel bandwidth	APPENDIX B	PASS	-----
15.407(a)	Maximum power spectral density	APPENDIX C	PASS	-----
15.407(b) 15.209 15.407(b) 15.205	Undesirable emissions and Restricted bands of operation	APPENDIX D APPENDIX E	PASS	-----
15.407(b)	In-band emission (Mask)	APPENDIX F	PASS	-----
15.407(b)	AC power line conducted emissions	APPENDIX G	PASS	
15.407(d)	Contention-based protocol	APPENDIX H	PASS	NOTE (2)

Statement of Conformity

The statement of conformity is based on the binary decision rule according to IEC Guide 115 and ILAC G8 "simple acceptance" principle. Without considering measurement uncertainty, its specific risk is less than 50% PFA. (PFA: Probability of False Accept)

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) Contention-Based Protocol Uses conducted method for testing.
- (3) The report format version is TP.1.1.1.

1.1 TEST FACILITY

The test locations stated below are under the TAF Accreditation Number 0659.
The test location(s) used to collect the test data in this report are:

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC RN: 674415) (FCC DN: TW0659)
☒ SR10

No. 68-2, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC RN: 674415) (FCC DN: TW0659)
☒ SR06

No.64, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC RN: 674415) (FCC DN: TW0659)
☒ CB20 ☒ C01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k = 2$, providing a level of confidence of approximately **95 %**.

A. Conducted test:

Test Item	U (dB)
Maximum e.i.r.p.	0.3669
Maximum transmitter channel bandwidth	0.5332
Maximum power spectral density	0.6590
In-band emission (Mask)	-
Contention-based protocol	-

B. Undesirable emissions test:

Test Site	Measurement Frequency Range (GHz)	U (dB)
CB20	0.03~0.2	4.01
	0.02~1	4.64
	1 ~ 6	5.91
	6 ~ 18	6.24
	18 ~ 26	3.93
	26 ~ 40	4.06

C. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C01	CISPR	150 kHz ~ 30MHz	3.44

NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

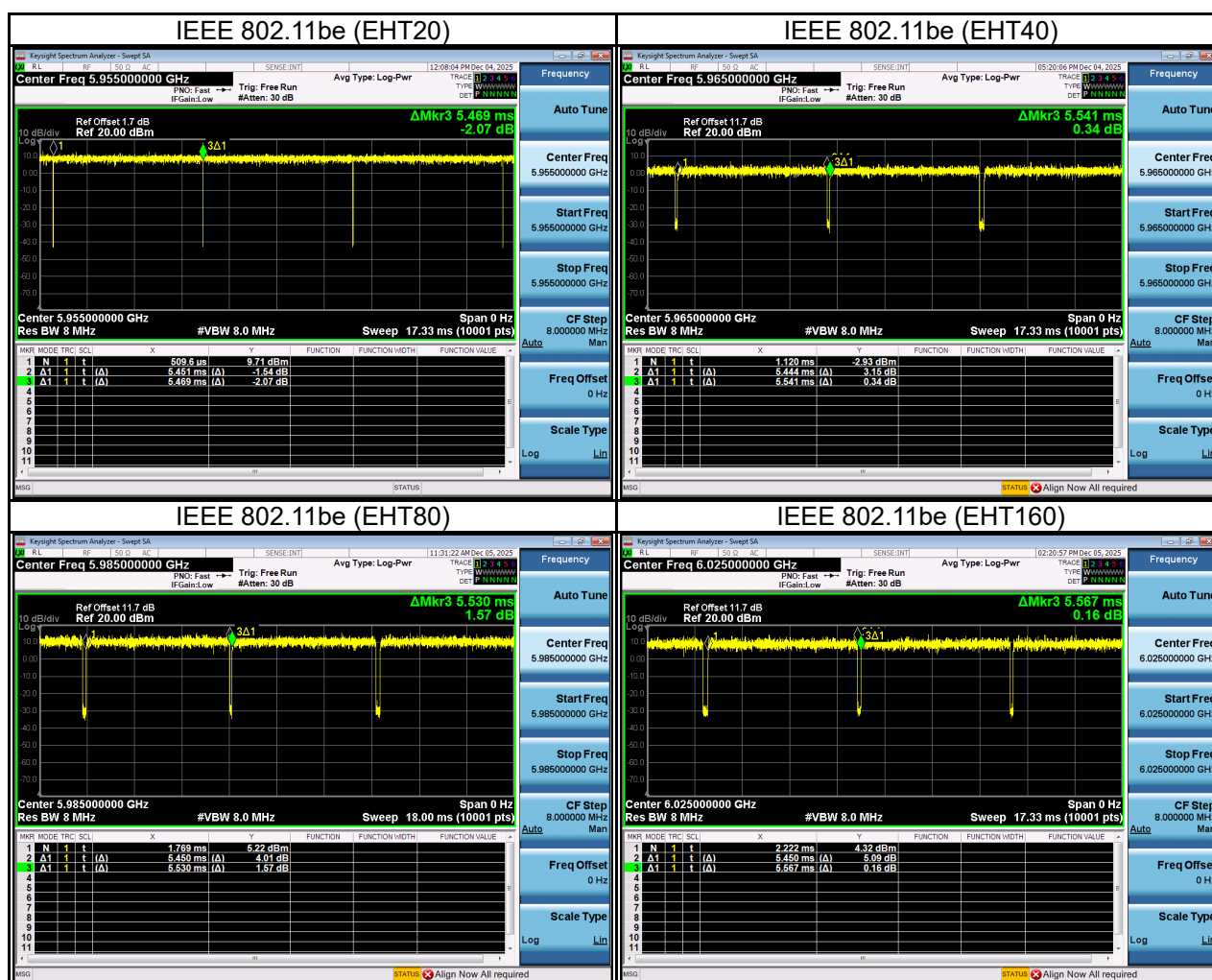
Test Item	Environment Condition	Test Voltage	Tested by
Maximum e.i.r.p.	25 °C, 58 %	DC 15V	Cheng Tsai
Maximum transmitter channel bandwidth	25 °C, 58 %	DC 15V	Cheng Tsai
Maximum power spectral density	25 °C, 58 %	DC 15V	Cheng Tsai
Undesirable emissions below 1 GHz	Refer to data	DC 15V	Ken Lu
Undesirable emissions above 1 GHz	Refer to data	DC 15V	Ken Lu
In-band emission (Mask)	25 °C, 58 %	DC 15V	Cheng Tsai
AC powerline conducted emissions	Refer to data	AC 120V	Benny Cao
Contention-based protocol	25 °C, 58 %	DC 15V	Cheng Tsai

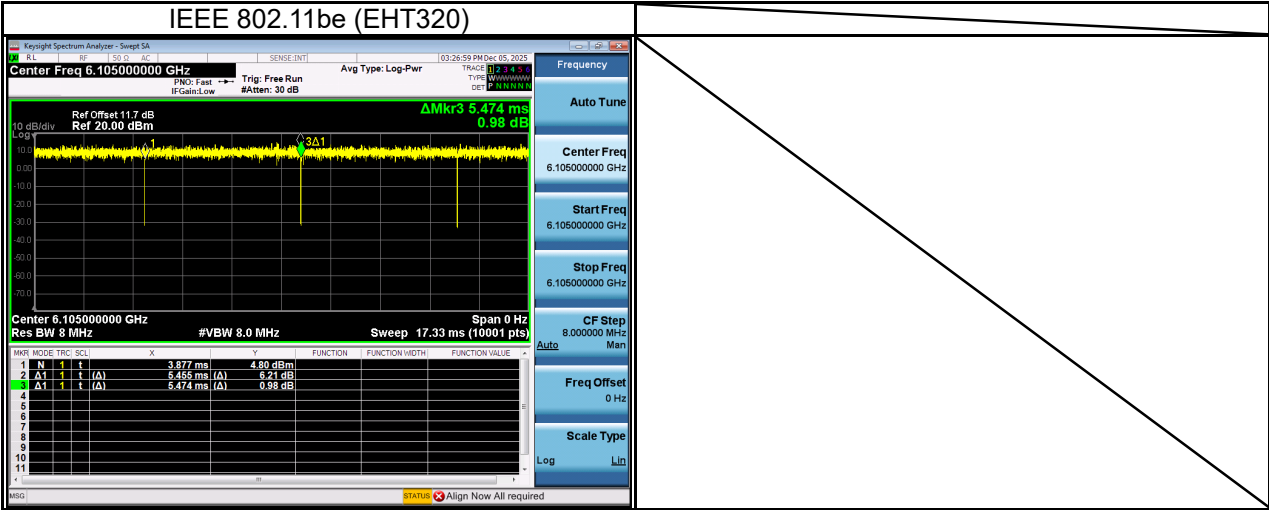
1.4 DUTY CYCLE

If duty cycle is $\geq 98\%$, duty factor is not required.

If duty cycle is $< 98\%$, duty factor shall be considered.

Remark	Delta 1			Delta 2	On Time/Period	10 log(1/Duty Cycle)
Mode	ON (ms)	Numbers (ON)	On Time (B) (ms)	Period (ON+OFF) (ms)	Duty Cycle (%)	Duty Factor (dB)
IEEE 802.11be (EHT20)	5.451	1	5.451	5.469	99.67%	0.00
IEEE 802.11be (EHT40)	5.444	1	5.444	5.541	98.25%	0.00
IEEE 802.11be (EHT80)	5.450	1	5.450	5.530	98.55%	0.00
IEEE 802.11be (EHT160)	5.450	1	5.450	5.567	97.90%	0.09
IEEE 802.11be (EHT320)	5.455	1	5.455	5.474	99.65%	0.00





1.5 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

UNII-5			
Test Software Version	QSPR_TestTree_toBTL_2025_1223_1847		
Frequency (MHz)	5955	6175	6415
IEEE 802.11be(EHT20)	9.5	9.5	9.5
Frequency (MHz)	5965	6165	6405
IEEE 802.11be(EHT40)	11.5	11.5	11.5
Frequency (MHz)	5985	6145	6385
IEEE 802.11be(EHT80)	15	15	15
Frequency (MHz)	6025	6185	6345
IEEE 802.11be(EHT160)	17.5	17.5	17.5
Frequency (MHz)	6105	6265	
IEEE 802.11be(EHT320)	21	21	

UNII-6			
Test Software Version	QSPR_TestTree_toBTL_2025_1223_1847		
Frequency (MHz)	6435	6475	6515
IEEE 802.11be(EHT20)	9.5	9.5	9.5
Frequency (MHz)	6445	6485	6525
IEEE 802.11be(EHT40)	11	11	11
Frequency (MHz)	6465		
IEEE 802.11be(EHT80)	14.5		
Frequency (MHz)	6505		
IEEE 802.11be(EHT160)	17		
Frequency (MHz)	6425		
IEEE 802.11be(EHT320)	20.5		

UNII-7			
Test Software Version	QSPR_TestTree_toBTL_2025_1223_1847		
Frequency (MHz)	6535	6695	6855
IEEE 802.11be(EHT20)	9.5	9.5	9.5
Frequency (MHz)	6565	6725	6845
IEEE 802.11be(EHT40)	11.5	11.5	11.5
Frequency (MHz)	6545 / 6625	6705	6785 / 6865
IEEE 802.11be(EHT80)	14	14	14
Frequency (MHz)	6665	6825	
IEEE 802.11be(EHT160)	17	17	
Frequency (MHz)	6585	6745	
IEEE 802.11be(EHT320)	20.5	20.5	

UNII-8			
Test Software Version	QSPR_TestTree_toBTL_2025_1223_1847		
Frequency (MHz)	6875 / 6895	6995	7115
IEEE 802.11be(EHT20)	5.5	6	5.5
Frequency (MHz)	6925	7005	7085
IEEE 802.11be(EHT40)	9	9	9
Frequency (MHz)	6945	7025	
IEEE 802.11be(EHT80)	13	13	
Frequency (MHz)	6985		
IEEE 802.11be(EHT160)	15.5		
Frequency (MHz)	6905		
IEEE 802.11be(EHT320)	19		

2 GENERAL INFORMATION

2.1 EUT INFORMATION

Equipment	802.11be (WiFi 7) Triple-Radio PoE Access Point
Model Name	NWA240BE
Brand Name	ZYXEL
Model Difference(s)	N/A
Hardware Version	V1.0
Software Version	QSPR_TestTree_toBTL_2025_1223_1847
Power Source	Supplied from AC adapter or PoE Adapter (Support Unit).
Power Rating	15V---2A
Frequency Range	U-NII 5: 5925 MHz ~ 6425 MHz U-NII 6: 6425 MHz ~ 6525 MHz U-NII 7: 6525 MHz ~ 6875 MHz U-NII 8: 6875 MHz ~ 7125 MHz
Operation Frequency	UNII-5: 5955 MHz ~ 6415 MHz UNII-6: 6425 MHz ~ 6515 MHz UNII-7: 6525 MHz ~ 6875 MHz UNII-8: 6895 MHz ~ 7115 MHz
Modulation Technology	IEEE 802.11ax/be: OFDMA
Transfer Rate	IEEE 802.11ax: up to 2402 Mbps IEEE 802.11be: up to 5764 Mbps
Maximum E.I.R.P. for UNII-5	IEEE 802.11be(EHT320): 28.30 dBm (0.6761 W)
Maximum E.I.R.P. for UNII-6	IEEE 802.11be(EHT320): 27.49 dBm (0.5610 W)
Maximum E.I.R.P. for UNII-7	IEEE 802.11be(EHT320): 28.02 dBm (0.6339 W)
Maximum E.I.R.P. for UNII-8	IEEE 802.11be(EHT320): 28.16 dBm (0.6546 W)
Test Model	NWA240BE
Sample Status	Engineering Sample
EUT Modification(s)	N/A

NOTE:

- (1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

(2) Channel List:

UNII-5							
IEEE 802.11ax(HE20) IEEE 802.11be(EHT20)		IEEE 802.11ax(HE40) IEEE 802.11be(EHT40)		IEEE 802.11ax(HE80) IEEE 802.11be(EHT80)		IEEE 802.11ax(HE160) IEEE 802.11be(EHT160)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5955	3	5965	7	5985	15	6025
5	5975	11	6005	23	6065	47	6185
9	5995	19	6045	39	6145	79	6345
13	6015	27	6085	55	6225		
17	6035	35	6125	71	6305		
21	6055	43	6165	87	6385		
25	6075	51	6205				
29	6095	59	6245				
33	6115	67	6285				
37	6135	75	6325				
41	6155	83	6365				
45	6175	91	6405				
49	6195						
53	6215						
57	6235						
61	6255						
65	6275						
69	6295						
73	6315						
77	6335						
81	6355						
85	6375						
89	6395						
93	6415						

UNII-6							
IEEE 802.11ax(HE20) IEEE 802.11be(EHT20)		IEEE 802.11ax(HE40) IEEE 802.11be(EHT40)		IEEE 802.11ax(HE80) IEEE 802.11be(EHT80)		IEEE 802.11ax(HE160) IEEE 802.11be(EHT160)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
97	6435	99	6445	103	6465	111	6505
101	6455	107	6485				
105	6475	115	6525				
109	6495						
113	6515						

UNII-7							
IEEE 802.11ax(HE20) IEEE 802.11be(EHT20)		IEEE 802.11ax(HE40) IEEE 802.11be(EHT40)		IEEE 802.11ax(HE80) IEEE 802.11be(EHT80)		IEEE 802.11ax(HE160) IEEE 802.11be(EHT160)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
117	6535	123	6565	119	6545	143	6665
121	6555	131	6605	135	6625	175	6825
125	6575	139	6645	151	6705		
129	6595	147	6685	167	6785		
133	6615	155	6725	183	6865		
137	6635	163	6765				
141	6655	171	6805				
145	6675	179	6845				
149	6695						
153	6715						
157	6735						
161	6755						
165	6775						
169	6795						
173	6815						
177	6835						
181	6855						

UNII-8							
IEEE 802.11ax(HE20) IEEE 802.11be(EHT20)		IEEE 802.11ax(HE40) IEEE 802.11be(EHT40)		IEEE 802.11ax(HE80) IEEE 802.11be(EHT80)		IEEE 802.11ax(HE160) IEEE 802.11be(EHT160)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
185	6875	187	6885	199	6945	207	6985
189	6895	195	6925	215	7025		
193	6915	203	6965				
197	6935	211	7005				
201	6955	219	7045				
205	6975	227	7085				
209	6995						
213	7015						
217	7035						
221	7055						
225	7075						
229	7095						
233	7115						

IEEE 802.11be(EHT320)							
UNII-5		UNII-6		UNII-7		UNII-8	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
31	6105	95	6425	127	6585	191	6905
63	6265			159	6745		

(3) Table for Filed Antenna:

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	ARISTOTLE ENTERPRISES INC.	RFA-13226-R3	Internal	IPEX	2.17	UNII-5
					1.87	UNII-6
					2.70	UNII-7
					3.39	UNII-8
2	ARISTOTLE ENTERPRISES INC.	RFA-13226-R3	Internal	IPEX	2.49	UNII-5
					2.17	UNII-6
					2.51	UNII-7
					4.40	UNII-8

Note:

1) This EUT supports CDD, Directional gain = $G_{ANT} + \text{Array Gain}$.

For power measurements, Array Gain=0dB ($N_{ANT} \leq 4$),

so the UNII-5 Directional gain=2.49, the UNII-6 Directional gain=2.17,

the UNII-7 Directional gain=2.70, the UNII-8 Directional gain=4.40.

For power spectral density measurements, $N_{ANT}=2$, $N_{SS}=2$.

the Directional gain= $G_{ANT} + \text{Array Gain} = G_{ANT} + 10\log(N_{ANT}/N_{SS})\text{dBi}$.

so the UNII-5 Directional gain= $2.49 + 10\log(2/2)\text{dBi}=2.49$,

the UNII-6 Directional gain= $2.17 + 10\log(2/2)\text{dBi}=2.17$,

the UNII-7 Directional gain= $2.70 + 10\log(2/2)\text{dBi}=2.70$,

the UNII-8 Directional gain= $4.40 + 10\log(2/2)\text{dBi}=4.40$.

(4) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

(5) Operating Mode and Antenna Configuration

Operating Mode \ TX Mode	2TX
IEEE 802.11ax(HE20)	V (Ant. 1+Ant. 2)
IEEE 802.11ax(HE40)	V (Ant. 1+Ant. 2)
IEEE 802.11ax(HE80)	V (Ant. 1+Ant. 2)
IEEE 802.11ax(HE160)	V (Ant. 1+Ant. 2)
IEEE 802.11be(EHT20)	V (Ant. 1+Ant. 2)
IEEE 802.11be(EHT40)	V (Ant. 1+Ant. 2)
IEEE 802.11be(EHT80)	V (Ant. 1+Ant. 2)
IEEE 802.11be(EHT160)	V (Ant. 1+Ant. 2)
IEEE 802.11be(EHT320)	V (Ant. 1+Ant. 2)

2.2 TEST MODES

Test Items	Test mode	Channel	Note
Undesirable emissions (below 1GHz)	IEEE 802.11be (EHT320)	63	-
Undesirable emissions (1GHz to 18GHz)	IEEE 802.11be (EHT20)	1/93, 97/113, 117/181, 185/233	Bandedge
	IEEE 802.11be (EHT40)	3/91, 99/115, 123/179, 187/227	
	IEEE 802.11be (EHT80)	7/87, 103, 119/183, 215	
	IEEE 802.11be (EHT160)	15/79, 111, 143, 207	
	IEEE 802.11be (EHT320)	31/63, 95 127/159, 191	
	IEEE 802.11be (EHT20)	1/45/93, 97/105/113, 117/149/181, 185/209/233	Harmonic
	IEEE 802.11be (EHT40)	3/43/91, 99/107/115, 123/155/179, 187/211/227	
	IEEE 802.11be (EHT80)	7/39/87, 103, 119/151/183, 199/215	
	IEEE 802.11be (EHT160)	15/47/79, 111, 143/175, 207	
	IEEE 802.11be (EHT320)	31/63, 95 127/159, 191	
Undesirable emissions (above 18GHz)	IEEE 802.11be (EHT320)	63	-

Test Items	Test mode	Channel	Note
Maximum e.i.r.p. & Maximum transmitter channel bandwidth & Maximum power spectral density & In-band emission (Mask)	IEEE 802.11be (EHT20)	1/45/93, 97/105/113, 117/149/181, 185/209/233	-
	IEEE 802.11be (EHT40)	3/43/91, 99/107/115, 123/155/179, 187/211/227	
	IEEE 802.11be (EHT80)	7/39/87, 103, 119/151/183, 199/215	
	IEEE 802.11be (EHT160)	15/47/79, 111, 143/175, 207	
	IEEE 802.11be (EHT320)	31/63, 95 127/159, 191	
AC Power Line Conducted Emissions	Normal	-	-
Contention-based protocol	IEEE 802.11be (EHT20)	1, 97 117, 185	-
	IEEE 802.11be (EHT320)	31, 95, 127, 191	

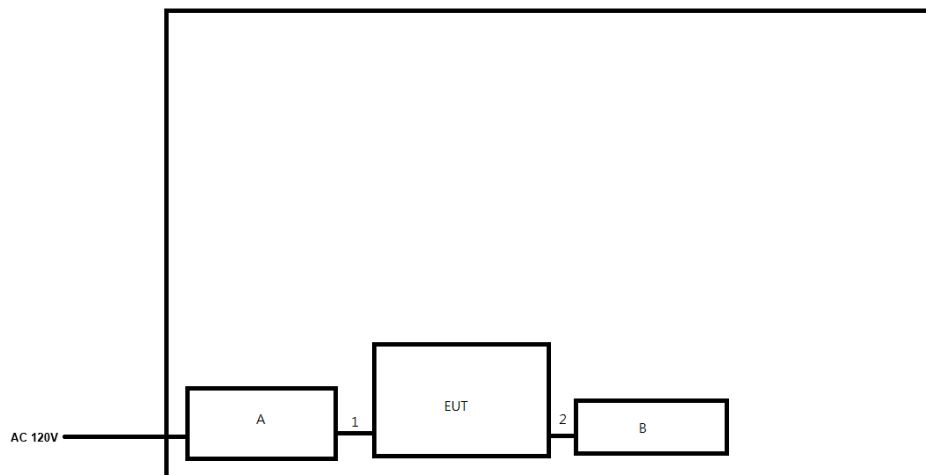
NOTE:

- (1) For radiated spurious emissions below 1 GHz and receiver spurious emissions above 1 GHz test, the IEEE 802.11be (EHT320) channel 63 is found to be the worst case and recorded.
- (2) For radiated emission 1GHz to 18GHz and above 18GHz test, both Vertical and Horizontal are evaluated, only the worst polarization is recorded.
- (3) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded
- (4) For radiated emission above 18GHz test, only tested and recorded the worst case.
- (5) EHT20/EHT40/EHT80/EHT160 covers HE20/HE40/HE80/HE160, due to same modulation (in full RU). The power setting for 802.11ax HE20/HE40/HE80/HE160 are the same or lower than 802.11be EHT20/EHT40/EHT80/EHT160.
- (6) IEEE 802.11ax mode and IEEE 802.11be mode only support full RU, so only the full RU is evaluated and measured inside report.
- (7) For radiated emission below 1GHz test, both AC adapter supplied and PoE Adapter supplied are evaluated, in this report only recorded the worst case.

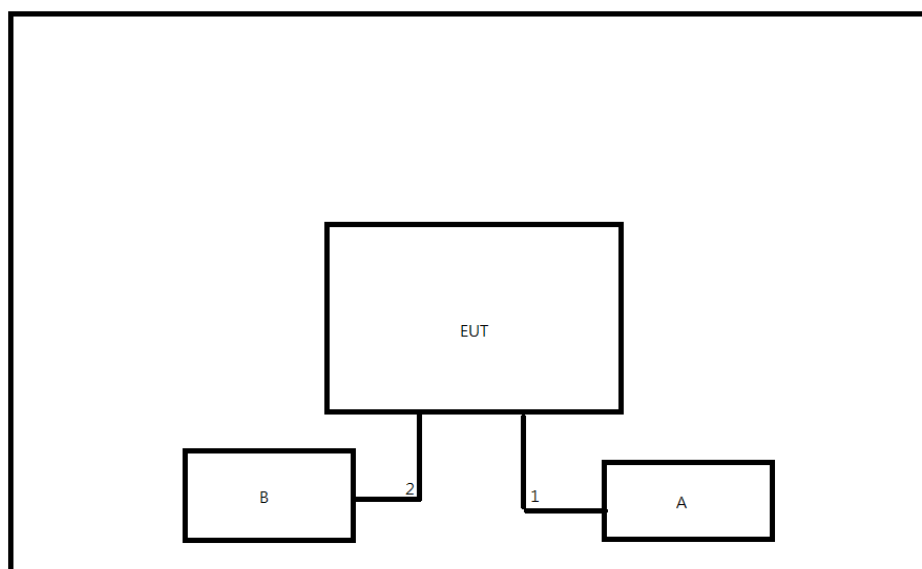
2.3 TESTED CONFIGURATION DIAGRAM

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.

AC power line conducted emissions



Radiated Emissions



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	Adapter	DEEVAN	DSA-45PDH	N/A	Supplied by test requester
B	Notebook	Lenovo	ThinkBook 14 G4 IAP	MP28KHAH	Furnished by test lab.

Item	Cable Type	Shielded	Ferrite Core	Length	Remarks
1	Type-C Cable	NO	NO	1m	Supplied by test requester
2	RJ45 Cable	NO	NO	3m	Supplied by test requester

3 MAXIMUM E.I.R.P. TEST

3.1 LIMITS

According to 15.407(a)(4)(5)(6)(7)(8) the limits are as follows:

Equipment Category	Band	Maximum e.i.r.p. Limit
Standard power access point* Fixed client*	U-NII 5 (5.925-6.425 GHz)	36 dBm
	U-NII 7 (6.525-6.875 GHz)	
Indoor access point Subordinate device	U-NII 5 (5.925-6.425 GHz)	30 dBm
	U-NII 6 (6.425-6.525 GHz)	
	U-NII 7 (6.525-6.875 GHz)	
	U-NII 8 (6.875-7.125 GHz)	
Standard power access point client devices	U-NII 5 (5.925-6.425 GHz)	30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power
	U-NII 6 (6.425-6.525 GHz)	
	U-NII 7 (6.525-6.875 GHz)	
	U-NII 8 (6.875-7.125 GHz)	
Indoor access point client devices	U-NII 5 (5.925-6.425 GHz)	24 dBm
	U-NII 6 (6.425-6.525 GHz)	
	U-NII 7 (6.525-6.875 GHz)	
	U-NII 8 (6.875-7.125 GHz)	

* For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

According to 15.407(a)(11):

The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

3.2 TEST PROCEDURE

Referring to FCC KDB 987594 D02, clause E. and FCC KDB 789033 D02, clause E. 3 Measurement using a Power Meter (PM):

- a. The maximum peak conducted output power was performed in accordance with method of clause E. 3. a) Method PM (Measurement using an RF average power meter):
 - (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
 - The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
 - At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
 - The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
 - (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal.
 - (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
 - (iv) Adjust the measurement in dBm by adding $10 \log (1/x)$ where x is the duty cycle (e.g., $10 \log (1/0.25)$ if the duty cycle is 25%).
- b. The maximum peak conducted output power was performed in accordance with method of clause E. 3. b) Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Referring to FCC KDB 987594 D02, clause H. Measurement of emission at elevation angles higher than 30° from horizon:

Note: Elevation angle is defined as 0° is horizontal and 90° is straight-up.

For fixed infrastructure, not electrically or mechanically steerable beam antenna

a. If elevation plane radiation pattern is available:

- (i) Determine the device intended mounting elevation angle and define 0° reference angle on the elevation plane radiation pattern.
- (ii) Indicate any radiation pattern between 30° and 90° which has the highest gain.
- (iii) Calculate the EIRP based on this highest gain and conducted output power.
- (iv) Compare to the 125 mW limit to establish compliance.
- (v) Include the elevation pattern data in the application filing with the test report to show how the calculations are made.

Note: For MIMO devices, take the maximum gain of each antenna and apply the guidance in KDB Publication 662911 for calculating the overall gain including directional gain for the maximum EIRP calculation.

b. If the elevation plane radiation pattern is not available, but the antenna type (such as dipole omnidirectional, Yagi, parabolic, or sector antenna) has a symmetrical elevation plane pattern referenced at the main beam and all lobes on the main beam elevation plane have highest gains, then the following measurement method is acceptable to determine compliance:

- (i) Determine the device's intended mounting elevation angle referenced to the horizon.
- (ii) Rotate the EUT antenna by 90° around the main beam axis in a horizontal position to transform the measurement in elevation angle into an azimuth angle and define a 0° reference angle based on the device's intended mounting elevation angle.
- (iii) Move the test antenna along the horizontal arc, or rotate the turntable with the EUT antenna placed at the center, between 30° and 90° relative to the 0° reference angle, and then continuing down from 90° to 30° on the other side of the pattern, while maintaining the test antenna pointing with constant distance to the EUT antenna. Search for the spot which has the highest measured emission. Both horizontal and vertical polarization shall be investigated to determine the maximum radiated emission level.

Note: Moving the test antenna along the horizontal arc, or rotating the turntable, shall be performed in an angular step size as small as possible, but not larger than 3°.

- (iv) Calculate the EIRP based on the highest measured emission. Compare to the limit of 125 mW to determine compliance.
- (v) The antenna pattern measurements must be included in the filing.

For All Other Antenna Types

For all other antenna types (such as patch antennas, array antennas, antennas with irregular radiator shapes, etc.) which have any combination of following characteristics:

- Asymmetrical, complex radiation patterns
- 2-D or 3-D steerable beam
- Portable/mobile, not fixed infrastructure device

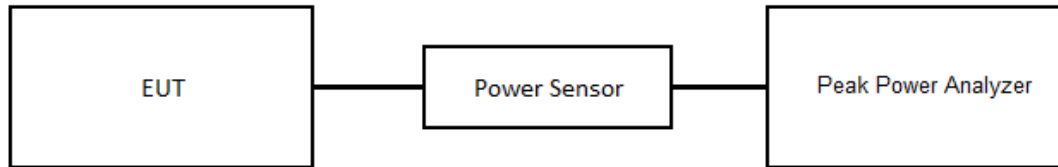
Provide the following information in the report:

- a. Describe what type of antenna is used.
- b. Determine by calculation, measurement or simulation, all radiation lobes/beams, which have EIRP higher than 125 mW within a 3-dB elevation beamwidth.
- c. Provide an explanation of how these antenna beams are controlled to be kept below the 30° elevation angle. The explanation should include device installation instructions, mechanical control, electro-mechanical control or software algorithms, if the beams are electrically controlled by software.

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULT

Please refer to the APPENDIX A.

4 MAXIMUM TRANSMITTER CHANNEL BANDWIDTH TEST

4.1 LIMITS

According to 15.407(a)(10):

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

4.2 TEST PROCEDURE

For Emission Bandwidth (EBW):

Referring to FCC KDB 987594 D02, clause C. and FCC KDB 789033 D02, clause C. 1. Emission Bandwidth (EBW):

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

For 99% Occupied Bandwidth:

Referring to FCC KDB 987594 D02, clause D. and FCC KDB 789033 D02, clause D. 99% Occupied Bandwidth:

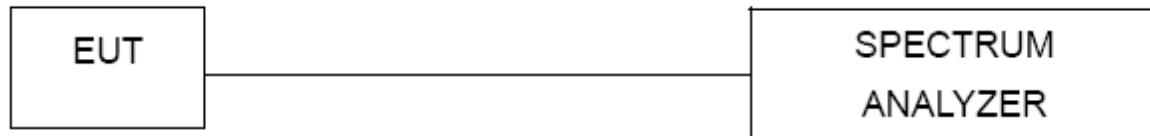
The 99% occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. Measurement of the 99% occupied bandwidth is required only as a condition for using the optional band-edge measurement techniques. Measurements of 99% occupied bandwidth may also optionally be used in lieu of the EBW to define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power. However, the EBW must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with Section 15.407(a).

The following procedure shall be used for measuring (99%) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1% to 5% of the OBW
4. Set VBW $\geq 3 \times$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99% power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP**4.5 EUT OPERATING CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT

Please refer to the APPENDIX B.

5 MAXIMUM POWER SPECTRAL DENSITY TEST

5.1 LIMITS

According to 15.407(a)(4)(5)(6)(7)(8) the limits are as follows:

Equipment Category	Band	Maximum Power Spectral Density (e.i.r.p.) Limit
Standard power access point Fixed client	U-NII 5 (5.925-6.425 GHz)	23 dBm/MHz
	U-NII 7 (6.525-6.875 GHz)	
Indoor access point Subordinate device	U-NII 5 (5.925-6.425 GHz)	5 dBm/MHz
	U-NII 6 (6.425-6.525 GHz)	
	U-NII 7 (6.525-6.875 GHz)	
	U-NII 8 (6.875-7.125 GHz)	
Standard power access point client devices	U-NII 5 (5.925-6.425 GHz)	17 dBm/MHz
	U-NII 6 (6.425-6.525 GHz)	
	U-NII 7 (6.525-6.875 GHz)	
	U-NII 8 (6.875-7.125 GHz)	
Indoor access point client devices	U-NII 5 (5.925-6.425 GHz)	-1 dBm/MHz
	U-NII 6 (6.425-6.525 GHz)	
	U-NII 7 (6.525-6.875 GHz)	
	U-NII 8 (6.875-7.125 GHz)	

5.2 TEST PROCEDURE

Referring to FCC KDB 987594 D02, clause F. and FCC KDB 789033 D02, clause F. Maximum Power Spectral Density (PSD):

Method SA-1 is used.

- Set Attenuation = auto.
- Span Frequency = Encompass the entire emissions bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW > 3 MHz.
- Detector = RMS.
- Trace mode = max hold.
- Sweep time = auto.
- Record the maximum value.
- Record the maximum value and add 10 log (1/ duty cycle).
- Record the maximum value and add 1 dB.

5.3 DEVIATION FROM TEST STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT

Please refer to the APPENDIX C.

6 UNDESIRABLE EMISSIONS TEST

6.1 LIMITS

According to 15.407(b)(6) the limits are as follows:

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.

According to FCC KDB 987594 D02, clause G. Unwanted Emission Measurement:

Use guidance in KDB 789033 for measurements below 1000 MHz and above 1000 MHz. Unwanted emissions outside of restricted bands are measured with a RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

Item	Maximum e.i.r.p. Limit	Maximum field strength Limit @ 3m
Any emissions outside of the 5.925-7.125 GHz band	Peak: -7 dBm/MHz	88.2 dBuV/m
	Average: -27 dBm/MHz	68.2 dBuV/m

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

According to 15.407(b)(9) the limits are as follows:

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

NOTE:

- (1) e.i.r.p. Limit (dBuV/m at 3m) = Power Limit(dBm) + 95.2. (Referring to FCC KDB 987594 D02, clause G.2.d)(iii))
- (2) Emission level (dBuV/m) = 20log Emission level (uV/m).
3 m Emission level = 10 m Emission level + 20log(10 m/3 m).

(3) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain (if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level (dBμV)		Correct Factor (dB/m)		Measurement Value (dBμV/m)
19.11	+	2.11	=	21.22

Measurement Value (dBμV/m)		Limit Value (dBμV/m)		Margin Level (dB)
21.22	-	68.2	=	-46.98

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average

Spectrum Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

6.2 TEST PROCEDURE

Referring to FCC KDB 987594 D02, clause G. and FCC KDB 789033 D02, clause G. Unwanted Emission Measurement:

For measurements below 30 MHz:

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

For measurements 30 MHz to 40 GHz:

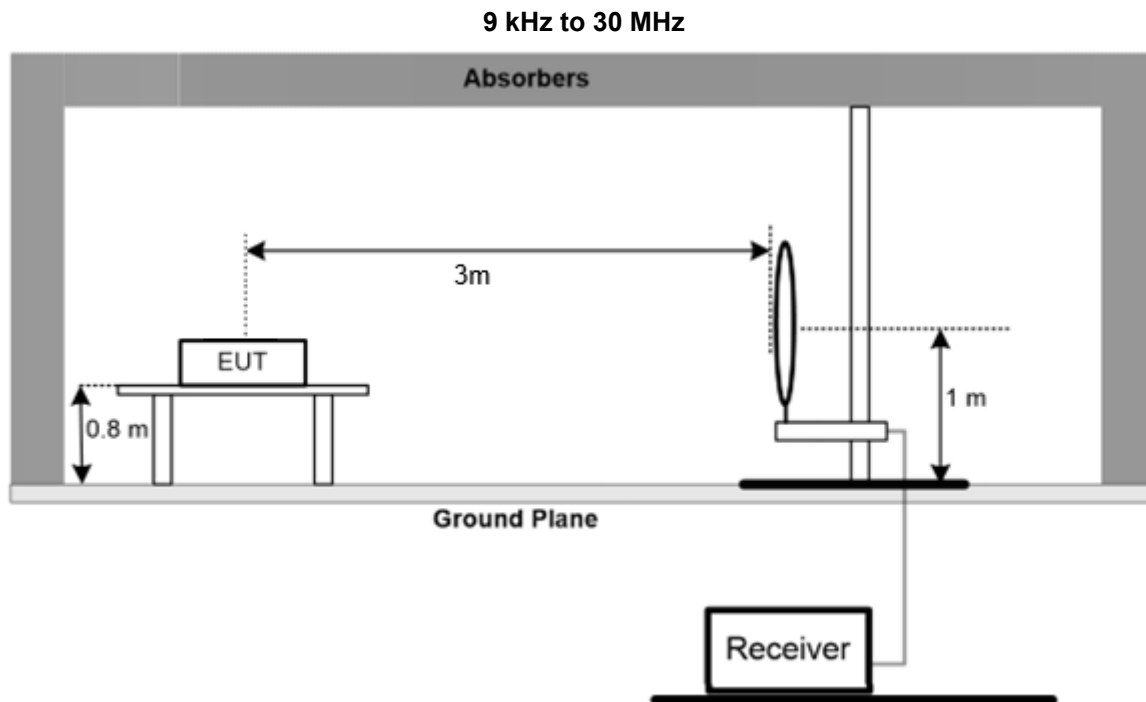
- The measuring distance of 1 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 30MHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (between 30 MHz to 1 GHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (between 1 GHz to 40 GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

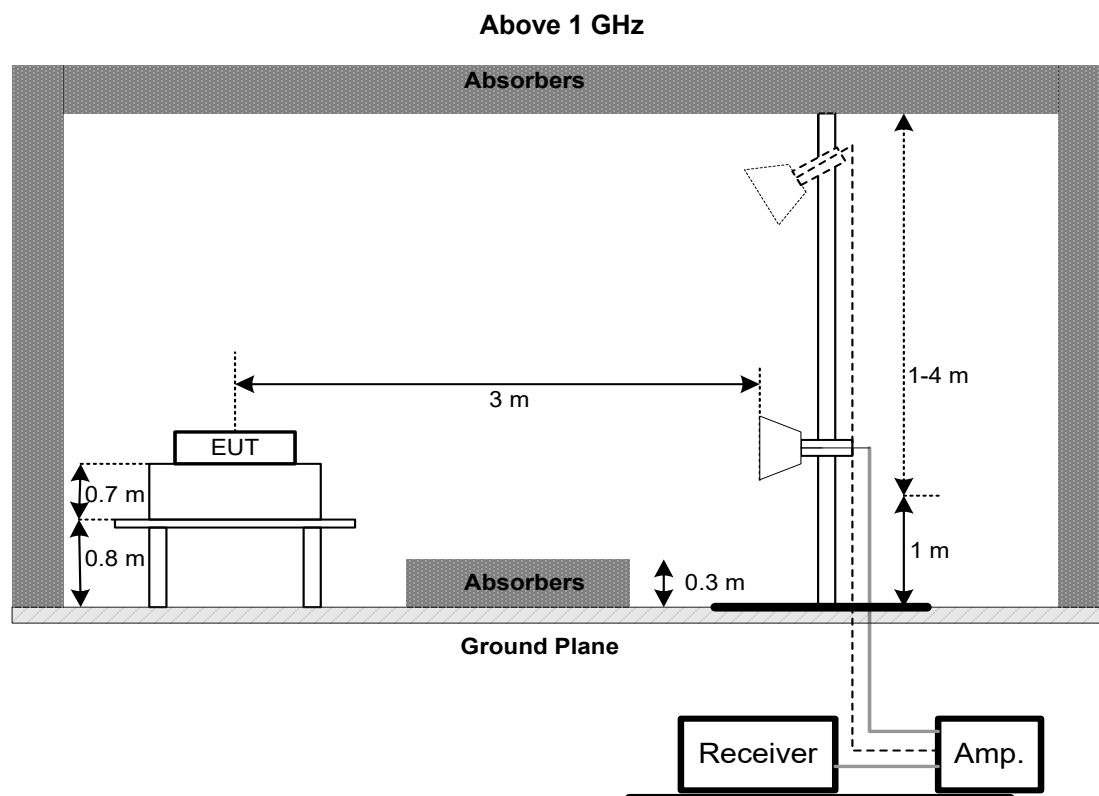
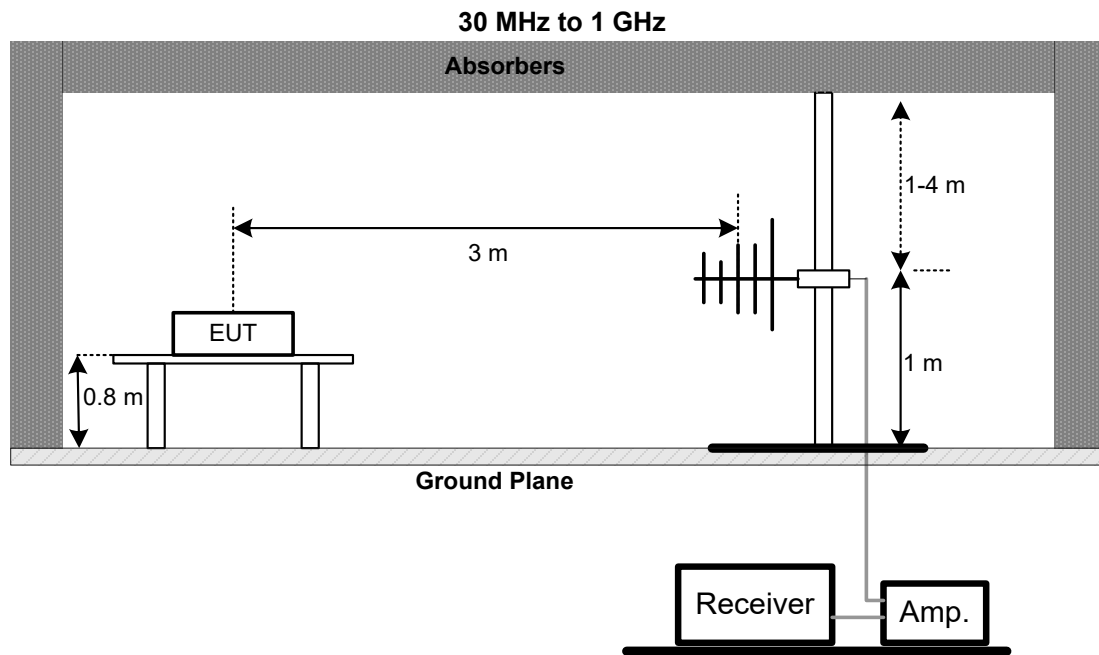
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- f. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- g. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- h. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (between 30 MHz to 1 GHz)
- i. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (between 30 MHz to 1 GHz)

6.3 DEVIATION FROM TEST STANDARD

No deviation.

6.4 TEST SETUP





6.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

NOTE:

- (1) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

6.6 TEST RESULT – 9 KHZ TO 30 MHZ

The EUT was programmed to be in continuously transmitting mode.

6.7 TEST RESULT – 30 MHZ TO 1 GHZ

Please refer to the APPENDIX D.

6.8 TEST RESULT – ABOVE 1 GHZ

Please refer to the APPENDIX E.

7 IN-BAND EMISSION (MASK) TEST

7.1 LIMITS

According to 15.407(b)(7) the limits are as follows:

Item	Test Frequency Range	Power spectral density suppressed Limit
In-Band Emissions (Mask)	at 1 MHz outside of channel edge	20 dB
	at one channel bandwidth from the channel center	28 dB
	at one- and one-half times the channel bandwidth away from channel center	40 dB
	Emissions removed from the channel center by more than one- and one-half times the channel bandwidth	40 dB

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.

7.2 TEST PROCEDURE

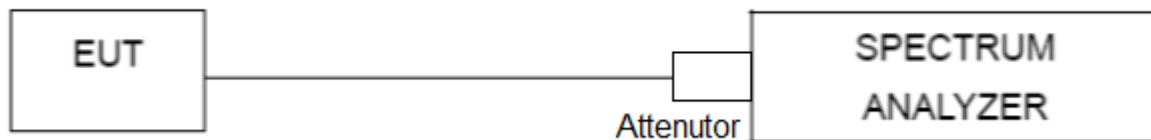
Referring to FCC KDB 987594 D02, clause J. In-Band Emissions:

- Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
- Set the reference level of the measuring equipment in accordance with procedure 4.1.5.2 of ANSI C63.10-2013.
- Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (This will be used to determine the channel edge.)
- Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - Set the span to encompass the entire 26 dB EBW of the signal.
 - Set RBW = same RBW used for 26 dB EBW measurement.
 - Set VBW $\geq 3 \times$ RBW
 - Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - Sweep time = auto.
 - Detector = RMS (i.e., power averaging)
 - Trace average at least 100 traces in power averaging (rms) mode.
 - Use the peak search function on the instrument to find the peak of the spectrum.
- For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.
- 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:
 - Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - Suppressed by 28 dB at one channel bandwidth from the channel center.
 - Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
- Adjust the span to encompass the entire mask as necessary.
- Clear trace.
- 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 of the emission mask.

7.3 DEVIATION FROM TEST STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULT

Please refer to the APPENDIX F.

8 AC POWER LINE CONDUCTED EMISSIONS TEST

8.1 LIMIT

Frequency (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56 *	56 - 46 *
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)
 Margin Level = Measurement Value – Limit Value
 Calculation example:

Reading Level (dBμV)		Correct Factor (dB)		Measurement Value (dBμV)
38.22	+	3.45	=	41.67

Measurement Value (dBμV)		Limit Value (dBμV)		Margin Level (dB)
41.67	-	60	=	-18.33

The following table is the setting of the receiver.

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

8.2 TEST PROCEDURE

- a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
 All other support equipment were powered from an additional LISN(s).
 The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.
 The end of the cable will be terminated, using the correct terminating impedance.
 The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item – EUT TEST PHOTO.

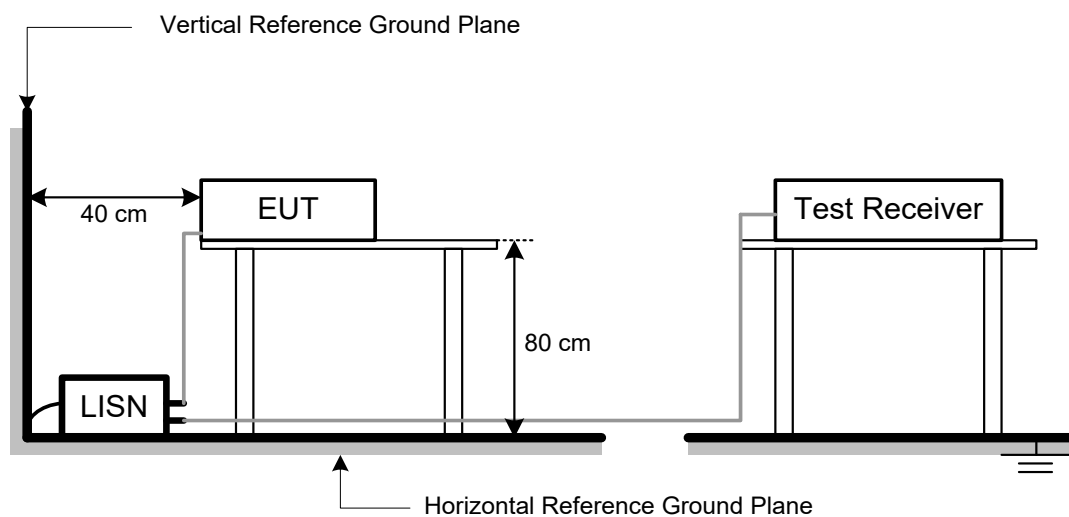
NOTE:

- (1) In the results, each reading is marked as Peak, QP or AVG per the detector used.
 BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

8.3 DEVIATION FROM TEST STANDARD

No deviation.

8.4 TEST SETUP



8.5 TEST RESULT

Please refer to the APPENDIX G

9 CONTENTION-BASED PROTOCOL TEST

9.1 LIMITS

According to 15.407(d)(6) the limits are as follows:

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

According to FCC KDB 987594 D02, clause I. Contention Based Protocol:

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

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.

9.2 TEST PROCEDURE

Referring to FCC KDB 987594 D02, clause I. Contention Based Protocol:

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

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Tune incumbent and EUT transmissions ($f_{c1} = f_{c2}$)
$BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$	Once	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

For Conducted measurement:

- a. Configure the EUT to transmit with a constant duty cycle.
- b. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
- c. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT.
Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
- d. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step b.
- e. 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.
- f. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT.
- g. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
- h. Monitor the signal analyzer 2 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.
- i. (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.
- j. 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 e, choose a different center frequency for the AWGN signal and repeat the process.

For Radiated measurement:

- a. Using the 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.
- b. Connect the AWGN signal source to antenna 1 and transmit the signal (RF ON).
- c. Using signal analyzer 1 and antenna 2, measure the AWGN signal power level. Align antenna 2 and antenna 1 to maximize emission.
- d. Using equation $P_2 = P_{\text{meas}} + L - G_2$, correct the measured power P_{meas} by the gain of antenna 2, G_2 and all cable losses and attenuations L to obtain the AWGN signal power level at antenna 2, P_2 .
- e. Set the corrected power P_2 to an extremely low level (more than 20 dB below the -62 dBm threshold).
- f. Place the EUT exactly where antenna 2 was. Configure the EUT to transmit a constant duty cycle.
- g. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
- h. Set the signal analyzer 1 center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of EUT.
- i. Monitor the signal analyzer 1 to verify if AWGN signal has been detected and EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- j. Determine and record the AWGN signal power level at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect the AWGN signal with 90% (or better) level of certainty.
- k. 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 a, choose a different center frequency for the AWGN signal and repeat the process.

9.3 DEVIATION FROM TEST STANDARD

No deviation.

9.4 TEST SETUP

For Conducted measurement:

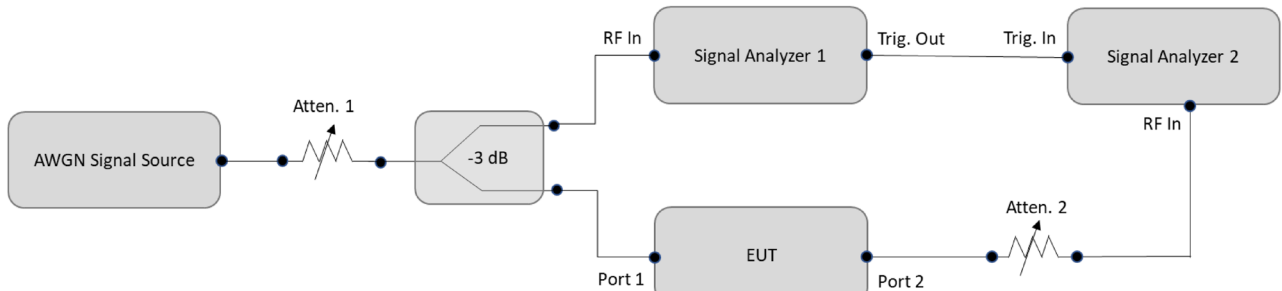


Figure 2. Contention-based protocol test setup, conducted method Step-by-Step Procedure, Conducted Setup

For Radiated measurement:

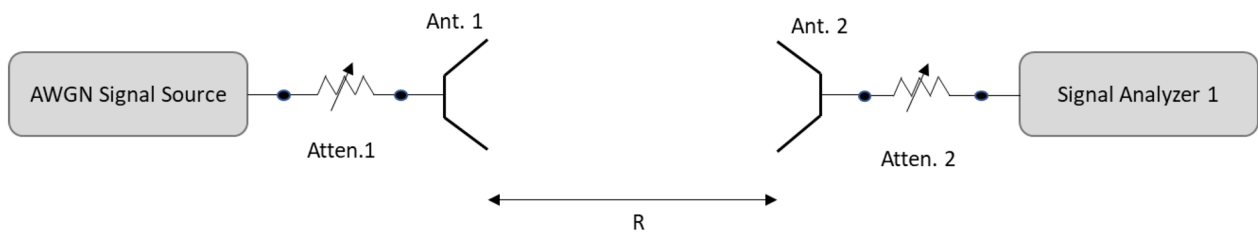


Figure 3. Contention-based protocol test setup, radiated method, power measurement

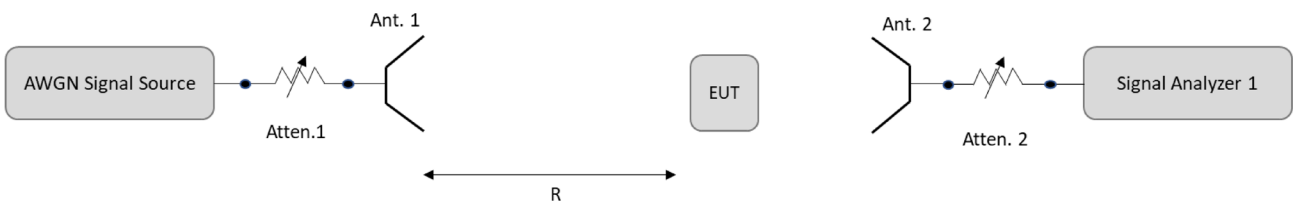


Figure 4. Contention-based protocol test setup, radiated method, detection threshold measurement

9.5 EUT OPERATING CONDITIONS

The EUT was Configured to be in normally transmitting mode with a constant duty cycle.

9.6 TEST RESULT

Please refer to the APPENDIX H.

10 LIST OF MEASURING EQUIPMENTS

Maximum e.i.r.p.						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	USB Peak Power Sensor	Anritsu	MA24408A	12591	2025/5/16	2026/5/15
2	MXA Signal Analyzer	Keysight	N9020B	MY63490160	2025/2/6	2026/2/5

Maximum transmitter channel bandwidth & Maximum power spectral density & In-band emission (Mask)						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	MXA Signal Analyzer	Keysight	N9020B	MY63490160	2025/2/6	2026/2/5

Undesirable Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Pre-Amplifier	EMCI	EMC184045SE	980512	2024/12/10	2025/12/9
					2025/12/02	2026/12/01
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	340	2025/06/25	2026/06/24
3	Test Cable	EMCI	EMC102-KM-KM-1000	220328	2024/12/10	2025/12/9
					2025/12/02	2026/12/01
4	Test Cable	EMCI	EMC102-KM-KM-3000	220330	2024/12/10	2025/12/9
					2025/12/02	2026/12/01
5	Broad-Band Horn Antenna	RFSPIN	DRH18-E	210109A18E	2025/01/14	2026/01/13
6	Pre-Amplifier	EMCI	EMC118A45SE	981030	2025/03/05	2026/03/04
7	Test Cable	EMCI	EMC102-KM-KM-1000	210119	2024/12/10	2025/12/9
					2025/12/02	2026/12/01
8	Test Cable	EMCI	EMC102-KM-KM-3000	210118	2024/12/10	2025/12/9
					2025/12/02	2026/12/01
9	Test Cable	EMCI	EMC105-SM-SM-7000	241237	2024/12/10	2025/12/9
		EMCI	EMC107-SM-SM-6000	230726	2025/12/02	2026/12/01
10	EXA Spectrum Analyzer	keysight	N9020B	MY59050137	2024/11/26	2025/11/25
					2025/12/1	2026/11/30
11	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	1207	2024/12/4	2025/12/3
		Schwarzbeck	VULB 9168	364	2025/04/08	2026/04/07
12	Pre-Amplifier	EMCI	EMC001330	980807	2024/12/9	2025/12/8
					2025/12/02	2026/12/01
13	Test Cable	EMCI	EMC-8D-NM-NM-5000	150106	2024/12/9	2025/12/8
					2025/12/02	2026/12/01
14	Test Cable	EMCI	EMC-CFD-400-NM-NM-8000	200343	2024/12/9	2025/12/8
					2025/12/02	2026/12/01
15	Test Cable	EMCI	EMC-CFD-400-NM-NM-3300	200348	2024/12/9	2025/12/8
					2025/12/02	2026/12/01
16	Measurement Software	Farad	EZ_EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

Contention Based Protocol						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	MXA Signal Analyzer	Keysight	N9020B	MY63490160	2025/2/6	2026/2/5
2	MXG Vector Signal Generator	Agilent	N5182B	MY51350711	2025/2/21	2026/2/20
3	Frequency Extender	Keysight	N5182BX07	MY59360246	2025/2/21	2026/2/20

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.
All calibration period of equipment list is one year.

11 EUT TEST PHOTOS

Please refer to document Appendix No.: TP-2508C743-1 (APPENDIX-TEST PHOTOS).

12 EUT PHOTOS

Please refer to document Appendix No.: EP-2508C743-1 (APPENDIX-EUT PHOTOS).

APPENDIX A MAXIMUM E.I.R.P.

Test Mode	IEEE 802.11be (EHT20)_ Ant.1	Test Date	2025/11/21
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Test Frequency (MHz)	Conducted Power (dBm)	e.i.r.p. (dBm)	e.i.r.p. (W)	e.i.r.p. Limit (dBm)	e.i.r.p. Limit (W)	Result
5955	11.39	13.88	0.0244	30.00	1.0000	Pass
6175	11.45	13.94	0.0248	30.00	1.0000	Pass
6415	11.42	13.91	0.0246	30.00	1.0000	Pass
6435	11.41	13.58	0.0228	30.00	1.0000	Pass
6475	11.36	13.53	0.0225	30.00	1.0000	Pass
6515	11.50	13.67	0.0233	30.00	1.0000	Pass
6535	11.31	14.01	0.0252	30.00	1.0000	Pass
6695	11.40	14.10	0.0257	30.00	1.0000	Pass
6855	11.35	14.05	0.0254	30.00	1.0000	Pass
6875	7.32	11.72	0.0149	30.00	1.0000	Pass
6995	7.86	12.26	0.0168	30.00	1.0000	Pass
7115	7.40	11.80	0.0151	30.00	1.0000	Pass

Test Mode	IEEE 802.11be (EHT20)_ Ant.2	Test Date	2025/11/21
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Test Frequency (MHz)	Conducted Power (dBm)	e.i.r.p. (dBm)	e.i.r.p. (W)	e.i.r.p. Limit (dBm)	e.i.r.p. Limit (W)	Result
5955	11.06	13.55	0.0226	30.00	1.0000	Pass
6175	11.08	13.57	0.0228	30.00	1.0000	Pass
6415	11.04	13.53	0.0225	30.00	1.0000	Pass
6435	11.28	13.45	0.0221	30.00	1.0000	Pass
6475	11.16	13.33	0.0215	30.00	1.0000	Pass
6515	11.00	13.17	0.0207	30.00	1.0000	Pass
6535	11.18	13.88	0.0244	30.00	1.0000	Pass
6695	11.15	13.85	0.0243	30.00	1.0000	Pass
6855	11.29	13.99	0.0251	30.00	1.0000	Pass
6875	7.21	11.61	0.0145	30.00	1.0000	Pass
6995	7.52	11.92	0.0156	30.00	1.0000	Pass
7115	7.04	11.44	0.0139	30.00	1.0000	Pass

Test Mode	IEEE 802.11be (EHT20)_ Total	Test Date	2025/11/21
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Test Frequency (MHz)	Conducted Power (dBm)	e.i.r.p. (dBm)	e.i.r.p. (W)	e.i.r.p. Limit (dBm)	e.i.r.p. Limit (W)	Result
5955	14.24	16.73	0.0471	30.00	1.0000	Pass
6175	14.28	16.77	0.0475	30.00	1.0000	Pass
6415	14.24	16.73	0.0471	30.00	1.0000	Pass
6435	14.36	16.53	0.0450	30.00	1.0000	Pass
6475	14.27	16.44	0.0441	30.00	1.0000	Pass
6515	14.27	16.44	0.0441	30.00	1.0000	Pass
6535	14.26	16.96	0.0497	30.00	1.0000	Pass
6695	14.29	16.99	0.0500	30.00	1.0000	Pass
6855	14.33	17.03	0.0505	30.00	1.0000	Pass
6875	10.28	14.68	0.0294	30.00	1.0000	Pass
6995	10.70	15.10	0.0324	30.00	1.0000	Pass
7115	10.23	14.63	0.0290	30.00	1.0000	Pass

Test Mode	IEEE 802.11be (EHT40)_ Ant.1	Test Date	2025/11/21
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Test Frequency (MHz)	Conducted Power (dBm)	e.i.r.p. (dBm)	e.i.r.p. (W)	e.i.r.p. Limit (dBm)	e.i.r.p. Limit (W)	Result
5965	13.39	15.88	0.0387	30.00	1.0000	Pass
6165	13.38	15.87	0.0386	30.00	1.0000	Pass
6405	13.48	15.97	0.0395	30.00	1.0000	Pass
6445	12.82	14.99	0.0316	30.00	1.0000	Pass
6485	12.96	15.13	0.0326	30.00	1.0000	Pass
6525	12.96	15.13	0.0326	30.00	1.0000	Pass
6565	13.37	16.07	0.0405	30.00	1.0000	Pass
6725	13.33	16.03	0.0401	30.00	1.0000	Pass
6845	13.48	16.18	0.0415	30.00	1.0000	Pass
6885	10.92	15.32	0.0340	30.00	1.0000	Pass
7005	10.97	15.37	0.0344	30.00	1.0000	Pass
7085	10.83	15.23	0.0333	30.00	1.0000	Pass

Test Mode	IEEE 802.11be (EHT40)_ Ant.2	Test Date	2025/11/21
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Test Frequency (MHz)	Conducted Power (dBm)	e.i.r.p. (dBm)	e.i.r.p. (W)	e.i.r.p. Limit (dBm)	e.i.r.p. Limit (W)	Result
5965	13.02	15.51	0.0356	30.00	1.0000	Pass
6165	13.15	15.64	0.0366	30.00	1.0000	Pass
6405	13.30	15.79	0.0379	30.00	1.0000	Pass
6445	12.75	14.92	0.0310	30.00	1.0000	Pass
6485	12.60	14.77	0.0300	30.00	1.0000	Pass
6525	12.56	14.73	0.0297	30.00	1.0000	Pass
6565	13.17	15.87	0.0386	30.00	1.0000	Pass
6725	13.04	15.74	0.0375	30.00	1.0000	Pass
6845	13.02	15.72	0.0373	30.00	1.0000	Pass
6885	10.54	14.94	0.0312	30.00	1.0000	Pass
7005	10.60	15.00	0.0316	30.00	1.0000	Pass
7085	10.58	14.98	0.0315	30.00	1.0000	Pass

Test Mode	IEEE 802.11be (EHT40)_ Total	Test Date	2025/11/21
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Test Frequency (MHz)	Conducted Power (dBm)	e.i.r.p. (dBm)	e.i.r.p. (W)	e.i.r.p. Limit (dBm)	e.i.r.p. Limit (W)	Result
5965	16.22	18.71	0.0743	30.00	1.0000	Pass
6165	16.28	18.77	0.0753	30.00	1.0000	Pass
6405	16.40	18.89	0.0774	30.00	1.0000	Pass
6445	15.80	17.97	0.0627	30.00	1.0000	Pass
6485	15.79	17.96	0.0625	30.00	1.0000	Pass
6525	15.77	17.94	0.0622	30.00	1.0000	Pass
6565	16.28	18.98	0.0791	30.00	1.0000	Pass
6725	16.20	18.90	0.0776	30.00	1.0000	Pass
6845	16.27	18.97	0.0789	30.00	1.0000	Pass
6885	13.74	18.14	0.0652	30.00	1.0000	Pass
7005	13.80	18.20	0.0661	30.00	1.0000	Pass
7085	13.72	18.12	0.0649	30.00	1.0000	Pass

Test Mode	IEEE 802.11be (EHT80)_ Ant.1	Test Date	2025/11/21
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Test Frequency (MHz)	Conducted Power (dBm)	e.i.r.p. (dBm)	e.i.r.p. (W)	e.i.r.p. Limit (dBm)	e.i.r.p. Limit (W)	Result
5985	16.97	19.46	0.0883	30.00	1.0000	Pass
6145	16.93	19.42	0.0875	30.00	1.0000	Pass
6385	16.97	19.46	0.0883	30.00	1.0000	Pass
6465	16.30	18.47	0.0703	30.00	1.0000	Pass
6545	15.87	18.57	0.0719	30.00	1.0000	Pass
6705	15.88	18.58	0.0721	30.00	1.0000	Pass
6865	15.92	18.62	0.0728	30.00	1.0000	Pass
6945	14.98	19.38	0.0867	30.00	1.0000	Pass
7025	14.83	19.23	0.0838	30.00	1.0000	Pass

Test Mode	IEEE 802.11be (EHT80)_ Ant.2	Test Date	2025/11/21
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Test Frequency (MHz)	Conducted Power (dBm)	e.i.r.p. (dBm)	e.i.r.p. (W)	e.i.r.p. Limit (dBm)	e.i.r.p. Limit (W)	Result
5985	16.72	19.21	0.0834	30.00	1.0000	Pass
6145	16.57	19.06	0.0805	30.00	1.0000	Pass
6385	16.73	19.22	0.0836	30.00	1.0000	Pass
6465	16.17	18.34	0.0682	30.00	1.0000	Pass
6545	15.72	18.42	0.0695	30.00	1.0000	Pass
6705	15.67	18.37	0.0687	30.00	1.0000	Pass
6865	15.69	18.39	0.0690	30.00	1.0000	Pass
6945	14.57	18.97	0.0789	30.00	1.0000	Pass
7025	14.57	18.97	0.0789	30.00	1.0000	Pass

Test Mode	IEEE 802.11be (EHT80)_ Total	Test Date	2025/11/21
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Test Frequency (MHz)	Conducted Power (dBm)	e.i.r.p. (dBm)	e.i.r.p. (W)	e.i.r.p. Limit (dBm)	e.i.r.p. Limit (W)	Result
5985	19.86	22.35	0.1718	30.00	1.0000	Pass
6145	19.76	22.25	0.1679	30.00	1.0000	Pass
6385	19.86	22.35	0.1718	30.00	1.0000	Pass
6465	19.25	21.42	0.1387	30.00	1.0000	Pass
6545	18.81	21.51	0.1416	30.00	1.0000	Pass
6705	18.79	21.49	0.1409	30.00	1.0000	Pass
6865	18.82	21.52	0.1419	30.00	1.0000	Pass
6945	17.79	22.19	0.1656	30.00	1.0000	Pass
7025	17.71	22.11	0.1626	30.00	1.0000	Pass

Test Mode	IEEE 802.11be (EHT160)_ Ant.1	Test Date	2025/11/21
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Test Frequency (MHz)	Conducted Power (dBm)	e.i.r.p. (dBm)	e.i.r.p. (W)	e.i.r.p. Limit (dBm)	e.i.r.p. Limit (W)	Result
6025	19.51	22.00	0.1585	30.00	1.0000	Pass
6185	19.52	22.01	0.1589	30.00	1.0000	Pass
6345	19.47	21.96	0.1570	30.00	1.0000	Pass
6505	18.92	21.09	0.1285	30.00	1.0000	Pass
6665	18.90	21.60	0.1445	30.00	1.0000	Pass
6825	19.03	21.73	0.1489	30.00	1.0000	Pass
6985	17.46	21.86	0.1535	30.00	1.0000	Pass

Test Mode	IEEE 802.11be (EHT160)_ Ant.2	Test Date	2025/11/21
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Test Frequency (MHz)	Conducted Power (dBm)	e.i.r.p. (dBm)	e.i.r.p. (W)	e.i.r.p. Limit (dBm)	e.i.r.p. Limit (W)	Result
6025	19.38	21.87	0.1538	30.00	1.0000	Pass
6185	19.30	21.79	0.1510	30.00	1.0000	Pass
6345	19.37	21.86	0.1535	30.00	1.0000	Pass
6505	18.85	21.02	0.1265	30.00	1.0000	Pass
6665	18.73	21.43	0.1390	30.00	1.0000	Pass
6825	18.60	21.30	0.1349	30.00	1.0000	Pass
6985	17.15	21.55	0.1429	30.00	1.0000	Pass

Test Mode	IEEE 802.11be (EHT160)_ Total	Test Date	2025/11/21
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Test Frequency (MHz)	Conducted Power (dBm)	e.i.r.p. (dBm)	e.i.r.p. (W)	e.i.r.p. Limit (dBm)	e.i.r.p. Limit (W)	Result
6025	22.46	24.95	0.3126	30.00	1.0000	Pass
6185	22.42	24.91	0.3097	30.00	1.0000	Pass
6345	22.43	24.92	0.3105	30.00	1.0000	Pass
6505	21.90	24.07	0.2553	30.00	1.0000	Pass
6665	21.83	24.53	0.2838	30.00	1.0000	Pass
6825	21.83	24.53	0.2838	30.00	1.0000	Pass
6985	20.32	24.72	0.2965	30.00	1.0000	Pass

Test Mode	IEEE 802.11be (EHT320)_ Ant.1	Test Date	2025/11/21
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Test Frequency (MHz)	Conducted Power (dBm)	e.i.r.p. (dBm)	e.i.r.p. (W)	e.i.r.p. Limit (dBm)	e.i.r.p. Limit (W)	Result
6105	22.86	25.35	0.3428	30.00	1.0000	Pass
6265	22.99	25.48	0.3532	30.00	1.0000	Pass
6425	22.46	24.63	0.2904	30.00	1.0000	Pass
6585	22.46	25.16	0.3281	30.00	1.0000	Pass
6745	22.37	25.07	0.3214	30.00	1.0000	Pass
6905	20.97	25.37	0.3443	30.00	1.0000	Pass

Test Mode	IEEE 802.11be (EHT320)_ Ant.2	Test Date	2025/11/21
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Test Frequency (MHz)	Conducted Power (dBm)	e.i.r.p. (dBm)	e.i.r.p. (W)	e.i.r.p. Limit (dBm)	e.i.r.p. Limit (W)	Result
6105	22.65	25.14	0.3266	30.00	1.0000	Pass
6265	22.61	25.10	0.3236	30.00	1.0000	Pass
6425	22.15	24.32	0.2704	30.00	1.0000	Pass
6585	22.06	24.76	0.2992	30.00	1.0000	Pass
6745	22.24	24.94	0.3119	30.00	1.0000	Pass
6905	20.51	24.91	0.3097	30.00	1.0000	Pass

Test Mode	IEEE 802.11be (EHT320)_ Total	Test Date	2025/11/21
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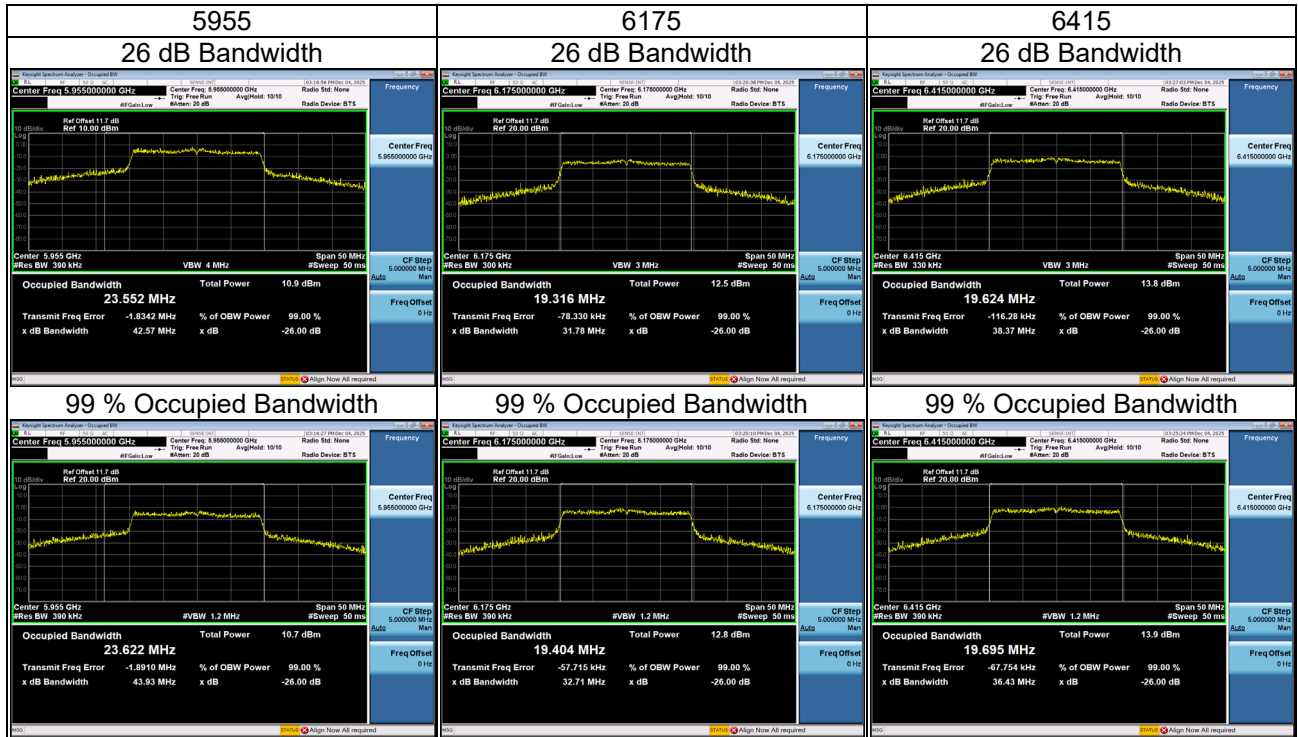
Test Frequency (MHz)	Conducted Power (dBm)	e.i.r.p. (dBm)	e.i.r.p. (W)	e.i.r.p. Limit (dBm)	e.i.r.p. Limit (W)	Result
6105	25.77	28.26	0.6699	30.00	1.0000	Pass
6265	25.81	28.30	0.6761	30.00	1.0000	Pass
6425	25.32	27.49	0.5610	30.00	1.0000	Pass
6585	25.27	27.97	0.6266	30.00	1.0000	Pass
6745	25.32	28.02	0.6339	30.00	1.0000	Pass
6905	23.76	28.16	0.6546	30.00	1.0000	Pass

Note: Conducted power = Measure result + Cable loss + Duty factor

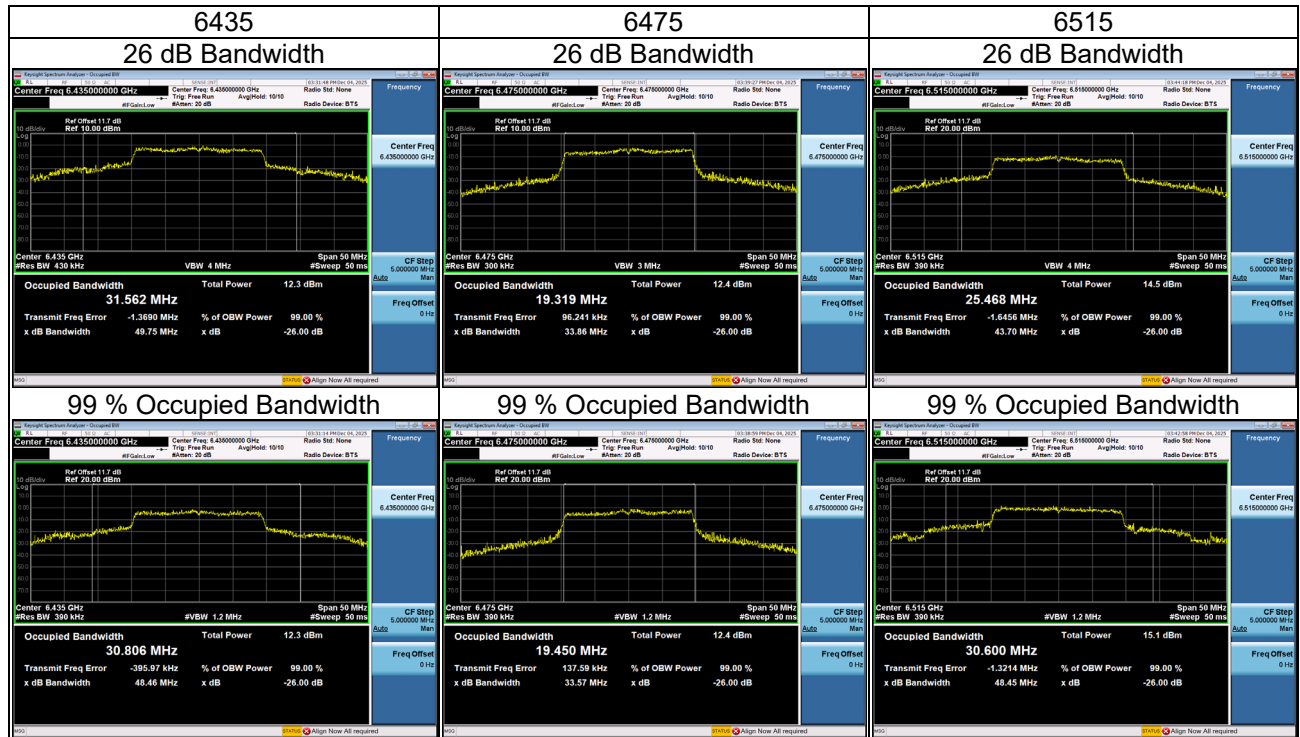
APPENDIX B MAXIMUM TRANSMITTER CHANNEL BANDWIDTH

Test Mode	IEEE 802.11be(EHT20)_Ant_1
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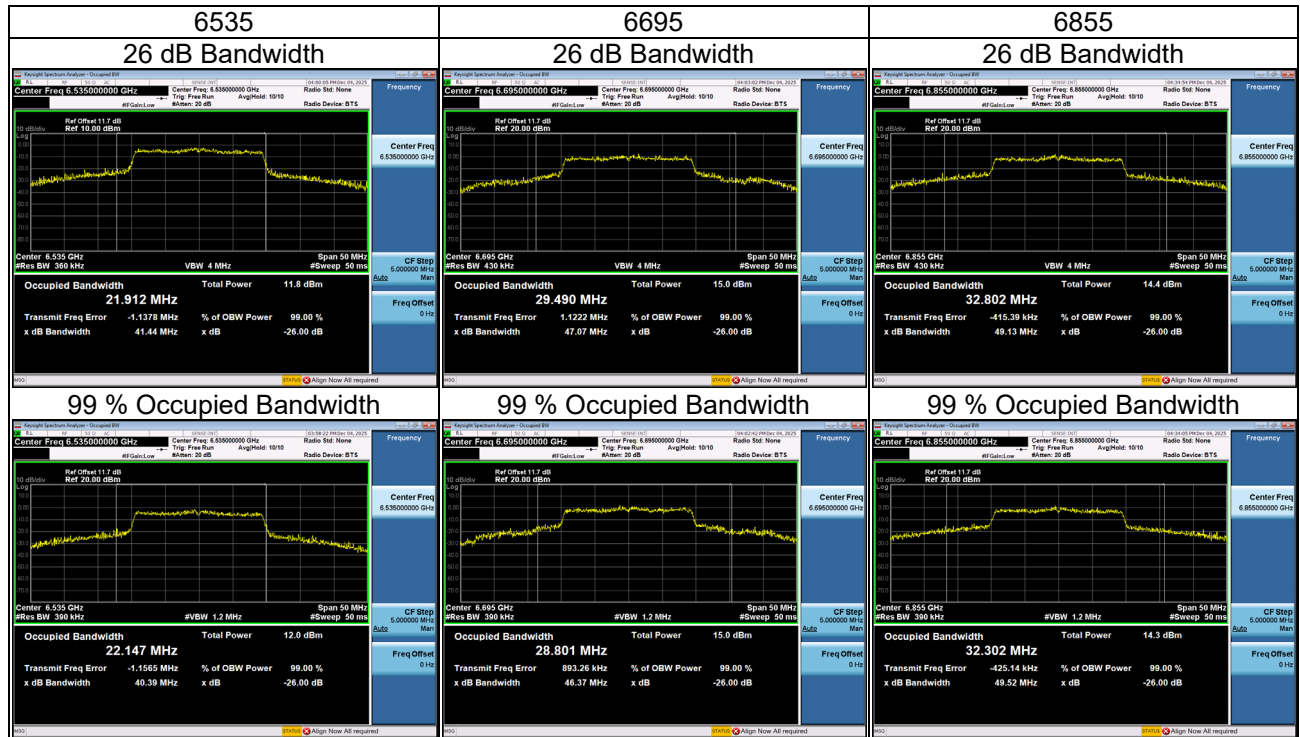
Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit (MHz)	Result
5955	42.57	23.62	320	Pass
6175	31.78	19.40	320	Pass
6415	38.37	19.70	320	Pass



Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit (MHz)	Result
6435	49.75	30.81	320	Pass
6475	33.86	19.45	320	Pass
6515	43.70	30.60	320	Pass



Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit (MHz)	Result
6535	41.44	22.15	320	Pass
6695	47.07	28.80	320	Pass
6855	49.13	32.30	320	Pass



Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit (MHz)	Result
6875	44.09	23.09	320	Pass
6995	36.52	19.66	320	Pass
7095	45.56	26.58	320	Pass

