



FCC RADIO TEST REPORT

Applicant : Comtrend Corporation

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Sanchong Dist, New Taipei City 241405, Taiwan

Equipment : Optical Network Terminals (ONTs)

Model No. : GRG-4366u, VG-8043u

Trade Name : **COMTREND**

FCC ID : L9VGRG4366

I HEREBY CERTIFY THAT :

The sample was received on Jan. 15, 2026 and the testing was completed on Mar. 19, 2026 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory



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Appendix explains:

Appendix A. Test Result and Data (30MHz ~ 1GHz)

Appendix B. Test Result and Data (Bandedge)

Appendix C. Test Result and Data (1GHz ~ 7GHz)

Appendix D. Test Result and Data (7GHz ~ 18GHz)

Appendix E. Test Result and Data (18GHz ~ 40GHz)



History of this test report

Report No.	Issued Date	Description
25120403-TRFCC02	Apr. 24, 2026	Original
25120403-TRFCC02-A	Oct. 01, 2026	Update application models: GRG-4366u, VG-8043u



1. Summary of Test Procedure and Test Results

1.1. Applicable Standards

ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024

FCC Rules and Regulations Part 15 Subpart E §15.407

KDB 789033

FCC Rule	Description of Test	Result
15.203	Antenna Requirement	PASS
15.207(a)	AC Power Line Conducted Emission	PASS
15.407(b) 15.209	Radiated Spurious Emission	PASS
15.407(a)	26 dB & Occupied Bandwidth	PASS
15.407	6 dB Bandwidth	PASS
15.407 (a) & (a)(3)	Average Power	PASS
15.407(a)	Power Spectral Density	PASS

*The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement, measurement uncertainty evaluation is not considered.



2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

Operation Frequency Range	802.11b/g/n/(Turbo QAM)/ax/be: 2400-2483.5MHz 802.11a/n/ac/ax/be: 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz
Center Frequency Range	802.11b/g/n/(Turbo QAM)/ax/be: 2412MHz~2462MHz 802.11a/n/ac/ax/be: 5180-5240MHz, 5260-5320MHz, 5500-5720MHz, 5745-5825MHz
Modulation Type	WLAN: 2.4GHz: 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM, 256QAM(TurboQAM) 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 802.11be: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM 5GHz: 802.11n/a: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 802.11be: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM
Modulation Technology	DSSS, OFDM, OFDMA
Data Rate	WLAN: 2.4GHz: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS31, HT20/40 MCS0 – MCS9, VHT20/40(TurboQAM) 802.11ax: MCS0 – MCS11, HE20/40 802.11be: MCS0 – MCS13, EHT20/40 5GHz: 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS31, HT20/40 802.11ac: MCS0 – MCS9, VHT20/40/80/160 802.11ax: MCS0 – MCS11, HE20/40/80/160 802.11be: MCS0 – MCS13, EHT20/40/80/160
Antenna Type	Dipole antenna
Antenna Gain	2400-2483.5MHz: ANT A 5.2dBi, ANT B: 6.0dBi ANT C: 6.5dBi, ANT D: 3.8dBi 5150-5250MHz: ANT E: 4.5dBi, ANT F: 3.7dBi, ANT G: 5.6dBi, ANT H: 3.0dBi 5250-5350MHz: ANT E: 4.1dBi, ANT F: 3.7dBi, ANT G: 5.2dBi, ANT H: 2.6dBi 5470-5725MHz: ANT E: 4.4dBi, ANT F: 3.4dBi, ANT G: 4.0dBi, ANT H: 2.8dBi 5725-5850MHz: ANT E: 4.4dBi, ANT F: 4.3dBi, ANT G: 4.5dBi, ANT H: 2.9dBi
Adapter	Brand: Amigo, Model: AMS241-1203000FU

Note:

1. EUT support TPC Function.
2. EUT support Master Mode.
3. Indoor access point
4. ANT I : Wifi 2.4GHz RX only, ANT J: Wifi 5GHz RX only
5. 802.11ac/ax/be support Beamforming
6. For more details, please refer to the User's manual of the EUT.



The differences between all model numbers as follow:

Model	XGS-PON Fiber	10G-WAN	Remark
GRG-4366u	V	--	The WAN port uses a different interface.
VG-8043u	--	V	

Note:After engineering evaluation, GRG-4366u are worst case , hence are used at test report.



2.2. Carrier Frequency of Channels

Band: 5150MHz-5250MHz

802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20, 802.11be EHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*36	5180	44	5220
*40	5200	*48	5240

802.11n HT40, 802.11ac VHT40, 802.11ax HE40, 802.11be EHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*38	5190	*46	5230

802.11ac VHT80 , 802.11ax HE80, 802.11be EHT80

Channel	Frequency(MHz)
*42	5210

Band: 5250MHz-5350MHz

802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20, 802.11be EHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*52	5260	*60	5300
56	5280	*64	5320

802.11n HT40, 802.11ac VHT40, 802.11ax HE40, 802.11be EHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*54	5270	*62	5310

802.11ac VHT80 , 802.11ax HE80, 802.11be EHT80

Channel	Frequency(MHz)
*58	5290

802.11ac VHT160 , 802.11ax HE160, 802.11be EHT160

Channel	Frequency(MHz)
*50	5250

Band: 5470MHz-5725MHz

802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20, 802.11be EHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*100	5500	124	5620
104	5520	128	5640
108	5540	132	5660
112	5560	136	5680
116	5580	*140	5700
*120	5600		

802.11n HT40, 802.11ac VHT40, 802.11ax HE40, 802.11be EHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*102	5510	126	5630
110	5550	*134	5670
*118	5590		

802.11ac VHT80 , 802.11ax HE80, 802.11be EHT80

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*106	5530	*122	5610

802.11ac VHT160 , 802.11ax HE160, 802.11be EHT160

Channel	Frequency(MHz)
*114	5570



Band 3: Straddle Channel

802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20, 802.11be EHT20

Channel	Frequency(MHz)
*144	5720

802.11n HT40, 802.11ac VHT40, 802.11ax HE40, 802.11be EHT40

Channel	Frequency(MHz)
*142	5710

802.11ac VHT80 , 802.11ax HE80, 802.11be EHT80

Channel	Frequency(MHz)
*138	5690

802.11ac VHT160 ,802.11ax VHT160

Channel	Frequency(MHz)
*114	5570

Band: 5725MHz-5850MHz

802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20, 802.11be EHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*149	5745	161	5805
153	5765	*165	5825
*157	5785		

802.11n HT40, 802.11ac VHT40, 802.11ax HE40, 802.11be EHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*151	5755	*159	5795

802.11ac VHT80 , 802.11ax HE80, 802.11be EHT80

Channel	Frequency(MHz)
*155	5775

Note: Channels remarked * are selected to perform test.



(For Above 1GHz)

Below test Channel generated the worst case, they were reported as the final data.

WIFI 5GHz	Channel	Frequency (MHz)	Bandedge	1GHz ~ 5.9GHz	5.9GHz ~ 18GHz	18GHz ~ 40GHz
20MHz	36	5180	v	v	v	--
	44	5220	v	v	v	--
	48	5240	v	v	v	--
	52	5260	v	v	v	--
	60	5300	v	v	v	--
	64	5320	v	v	v	--
	100	5500	v	v	v	--
	116	5580	v	v	v	--
	120	5600	v	v	v	--
	140	5700	v	v	v	--
	144	5720	v	v	v	--
	149	5745	v	v	v	--
	157	5785	v	v	v	--
	165	5825	v	v	v	--
40MHz	38	5190	v	v	v	--
	46	5230	v	v	v	--
	54	5270	v	v	v	--
	62	5310	v	v	v	--
	102	5510	v	v	v	--
	110	5550	v	v	v	--
	134	5670	v	v	v	--
	142	5710	v	v	v	--
	151	5755	v	v	v	--
	159	5795	v	v	v	v
80MHz	42	5210	v	v	v	--
	58	5290	v	v	v	--
	106	5530	v	v	v	--
	122	5610	v	v	v	--
	138	5690	v	v	v	--
	155	5775	v	v	v	--
160MHz	50	5250	v	v	v	--
	114	5570	v	v	v	--



2.3. Test Mode and Test Software

- During testing, the interface cables and equipment positions were varied according to ANSI C63.10.
- The complete test system included remote workstation and EUT for RF test. The remote workstation included Notebook.
- An executive program, "telnet" under Windows OS system was executed to transmit and receive data via WLAN.
- The following test modes were performed for the test:

Non BeamForming

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11a (6Mbps)
2	802.11be EHT20 (MCS0)
3	802.11be EHT40 (MCS0)
4	802.11be EHT80 (MCS0)
5	802.11be EHT160 (MCS0)
caused "Test Mode 1 CH159" generated the worst case, it was reported as the final data.	
Radiation Emissions (9KHz ~30MHz & 30MHz ~ 1GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps)
2	802.11be EHT20 (MCS0)
3	802.11be EHT40 (MCS0)
4	802.11be EHT80 (MCS0)
5	802.11be EHT160 (MCS0)
caused "Test Mode 3 CH159" generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 40GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps)
2	802.11be EHT20 (MCS0)
3	802.11be EHT40 (MCS0)
4	802.11be EHT80 (MCS0)
5	802.11be EHT160 (MCS0)
caused "Test Mode 1~4" generated the worst case, they were reported as the final data.	

Note:

- There are two kinds of test voltage: AC 120V / 60Hz and AC 240V / 60Hz.
For AC Power Line Conducted Emission, AC 240V / 60Hz is worst case.
For Radiated Spurious Emission(Below 1GHz), AC 120V / 60Hz is worst case.
- Non-Beamforming was the worst case, so it was used for the test result.



The EUT incorporates a MIMO function

Modulation Type	TX CONFIGURATION
802.11a	4TX/5RX
802.11n HT20	4TX/5RX
802.11n HT40	4TX/5RX
802.11ac VHT20	4TX/5RX
802.11ac VHT40	4TX/5RX
802.11ac VHT80	4TX/5RX
802.11ac VHT160	4TX/5RX
802.11ax HE20	4TX/5RX
802.11ax HE40	4TX/5RX
802.11ax HE80	4TX/5RX
802.11ax HE160	4TX/5RX
802.11be EHT20	4TX/5RX
802.11be EHT40	4TX/5RX
802.11be EHT80	4TX/5RX
802.11be EHT160	4TX/5RX

**2.4. Description of Test System**

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	lenovo	S1GL2W	N/A	N/A
Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	AUAS	P2430U	N/A	Adapter / 1.8m / NS
AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	AUAS	P2430U	N/A	Adapter / 1.8m / NS



2.5. General Information of Test

Organization	Cerpass Technology Corp.		
☒ Test Site	Cerpass Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel: +886-3-3226-888 Fax: +886-3-3226-881		
	FCC	TW1439, TW1079	
	ISED Company Number	4934E	
	ISED CAB identifier	TW1439	
Frequency Range Investigated	Conducted: from 150kHz to 30 MHz Radiation: from 9 kHz to 40,000MHz		
Test Distance	The test distance of radiated emission from antenna to EUT is 3 M.		

Non BeamForming

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON02-NK	2026/03/10	22.9°C / 46%	Leon Huang
RF Conducted	RFCON02-NK	2026/03/11	23.3°C / 48%	Leon Huang
RF Conducted	RFCON02-NK	2026/03/13	22.7°C / 51%	Leon Huang
RF Conducted	RFCON02-NK	2026/03/14	25.2°C / 47%	Leon Huang
RF Conducted	RFCON02-NK	2026/03/15	24.8°C / 46%	Leon Huang
Radiated Emissions (Above 1G)	3M02-NK	2026/03/09	20.4°C / 48%	Leon Huang
Radiated Emissions (Below 1G)	3M03-NK	2026/02/05	22.5°C / 66%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2026/02/05	22.6°C / 68%	Leon Huang

BeamForming

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON02-NK	2026/03/10	22.9°C / 46%	Leon Huang
RF Conducted	RFCON02-NK	2026/03/11	23.3°C / 48%	Leon Huang
RF Conducted	RFCON02-NK	2026/03/13	22.7°C / 51%	Leon Huang
RF Conducted	RFCON02-NK	2026/03/14	25.2°C / 47%	Leon Huang
RF Conducted	RFCON02-NK	2026/03/15	24.8°C / 46%	Leon Huang
RF Conducted	RFCON02-NK	2026/03/19	24.9°C / 51%	Leon Huang



2.6. Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±3.2dB
Radiated Spurious Emission(9KHz~30MHz)	±3.4dB
Radiated Spurious Emission(30MHz~1GHz)	±5.2dB
Radiated Spurious Emission(1GHz~40GHz)	±5.2dB
6dB Bandwidth	±4.4%
26dB Bandwidth	±4.5%
Occupied Bandwidth	±4.4%
Peak Output Power(Conducted Power Meter)	±1.1dB
Power Spectral Density	±2.0dB
Duty Cycle	±3.5%
Frequency Stability	±223.073Hz



3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions(Above 1G)				
Test Site	Semi Anechoic Room(3M02-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Schwarzbeck	VULB9168	VULB 9168-1947	2026/02/10	2027/02/09
Active Loop Antenna	EMCO	6507	00040855	2025/04/28	2026/04/27
Double Ridged Guide Horn Antenna	RF SPAN	DRH18-E	210309A18-ES	2025/08/22	2026/08/21
Horn Antenna	EMCO	3116	31974	2025/10/07	2026/10/06
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2025/07/10	2026/07/09
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2025/08/18	2026/08/17
Preamplifier	EMC INSTRUMENTS	EMC118A45V1SEE	981069	2025/12/18	2026/12/17
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2025/10/13	2026/10/12
Preamplifier	EM Electronics corp.	EM330	60659	2025/12/18	2026/12/17
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2025/07/02	2026/07/01
Cable-4m(30M-1G)	HUBER SUHNER	RG-214	02953M	2025/07/03	2026/07/02
Cable-1m(30M-1G)	HUBER SUHNER	RG-214	05094M	2025/07/04	2026/07/03
Cable-9m(30M-1G)	HUBER SUHNER	RG-214	00402M	2025/07/05	2026/07/04
Cable-8m(10M-26.5G)	HUBER SUHNER	SF126E	587396/126E	2025/10/15	2026/10/14
Cable-3m(10M-26.5G)	HUBER SUHNER	SF126E	587399/126E	2025/10/15	2026/10/14
Cable-1m(1G-26.5G)	HUBER SUHNER	SF126E	589848/126E	2025/10/15	2026/10/14
Cable-1m(1G-40G)	HUBER SUHNER	SF102E	552450	2025/07/09	2026/07/08
Cable-3m(1G-40G)	HUBER SUHNER	SF102E	552451	2025/07/09	2026/07/08
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA
High Pass Filter	WOKEN	WFIL-H3000-18000F-03	WR377WC2B1	2025/10/13	2026/10/12
Highpass Filter	WOKEN	WFIL-H7000-18000F-01	WR468FWC2B1	2025/10/03	2026/10/02



Test Item	Radiated Emissions(Below 1G)				
Test Site	Semi Anechoic Room(3M03-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Sunol	JB1	A051717	2025/09/08	2026/09/07
Active Loop Antenna	EMCO	6507	00040855	2025/04/28	2026/04/27
Horn Antenna	EMCO	3116	31974	2025/10/07	2026/10/06
Horn Antenna	Schwarzbeck	BBHA 9120 D	2203	2025/03/07	2026/03/06
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	101329	2025/06/10	2026/06/09
EMI Receiver	ROHDE & SCHWARZ	ESR7	101906	2025/05/19	2026/05/18
Preamplifier	Agilent	8449B	3008A01954	2025/02/12	2026/02/11
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2025/10/13	2026/10/12
Preamplifier	EM Electronics corp.	EM330	60611	2025/03/28	2026/03/27
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2025/07/02	2026/07/01
Cable-8m(10M-26.5G)	HUBER SUHNER	SF126E	587396/126E	2025/10/15	2026/10/14
Cable-3m(10M-26.5G)	HUBER SUHNER	SF126E	587399/126E	2025/10/15	2026/10/14
Cable-3m(10M-40G)	HUBER SUHNER	SF102	804619/2	2025/10/13	2026/10/12
Cable-1m(10M-40G)	HUBER SUHNER	SF102	804398/2	2025/10/13	2026/10/12
Cable-1m(1G-26.5G)	HUBER SUHNER	SF126E	589848/126E	2025/10/15	2026/10/14
Cable-4m(30M-1G)	HUBER SUHNER	RG-214	02953M	2025/07/11	2026/07/10
Cable-1m(30M-1G)	HUBER SUHNER	RG-214	05094M	2025/07/11	2026/07/10
Cable-9m(30M-1G)	HUBER SUHNER	RG-214	00402M	2025/07/11	2026/07/10
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA
High Pass Filter	Warison	WFIL-H3000-18000F-03	WR377WC2B1	2025/10/15	2026/10/14
Highpass Filter	WOKEN	WFIL-H7000-18000F-01	WR377WC2B2	2025/10/15	2026/10/14

Test Item	RF Conducted				
Test Site	RFCON02-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2025/10/23	2026/10/22
Attenuator	KEYSIGHT	8491B	MY39250705	2025/09/04	2026/09/03
Power Meter	Anritsu	ML2495A	2034001	2025/08/27	2026/08/26
Power Sensor	Anritsu	MA2411B	1911175	2025/08/27	2026/08/26

Test Item	AC Power Line Conducted Emission				
Test Site	CON02-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
EMI Receiver	ROHDE & SCHWARZ	ESR7	101906	2025/05/19	2026/05/18
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	1197	2025/02/26	2026/02/25
Two-Line V-Network	ROHDE & SCHWARZ	ENV216	101584	2025/02/26	2026/02/25
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2025/07/02	2026/07/01
E3	AUDIX	v8.2014-8-6	RK-000536	NA	NA



4. Antenna Requirements

4.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.



4.2. Antenna Construction and Directional Gain

Antenna Type	Dipole antenna
Antenna Gain	5150-5250MHz: ANT E: 4.5dBi, ANT F: 3.7dBi, ANT G: 5.6dBi, ANT H: 3.0dBi 5250-5350MHz: ANT E: 4.1dBi, ANT F: 3.7dBi, ANT G: 5.2dBi, ANT H: 2.6dBi 5470-5725MHz: ANT E: 4.4dBi, ANT F: 3.4dBi, ANT G: 4.0dBi, ANT H: 2.8dBi 5725-5850MHz: ANT E: 4.4dBi, ANT F: 4.3dBi, ANT G: 4.5dBi, ANT H: 2.9dBi

(Non-Beamforming)

5150MHz -5250MHz
For Power directional gain= 5.60 dBi For PSD directional gain = 8.50 dBi
5250MHz -5350MHz
For Power directional gain = 5.20dBi For PSD directional gain = 8.80 dBi
5470MHz -5725MHz
For Power directional gain=4.40 dBi For PSD directional gain = 8.60 dBi
5725MHz -5850MHz
For Power directional gain= 4.5dBi For PSD directional gain =8.10 dBi

* Power and PSD directional gain refer to PAG Gain Report.

(Beamforming)

5150MHz -5250MHz
directional gain=8.50 dBi
5250MHz -5350MHz
directional gain= 8.80 dBi
5470MHz -5725MHz
directional gain= 8.60 dBi
5725MHz -5850MHz
directional gain=8.10 dBi

* Power and PSD directional gain refer to PAG Gain Report.



5. Test of AC Power Line Conducted Emission

5.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz, according to the methods defined in ANSI C63.10-2020+Cor.1-2023 and ANSI C63.10a-2024. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

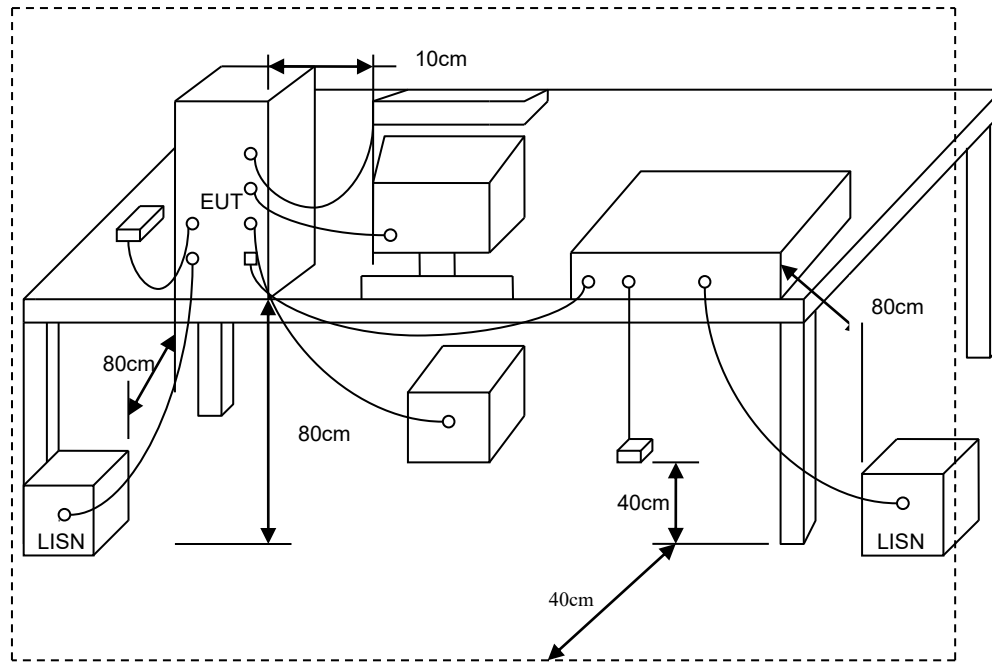
*Decreases with the logarithm of the frequency.

5.2. Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



5.3. Typical Test Setup



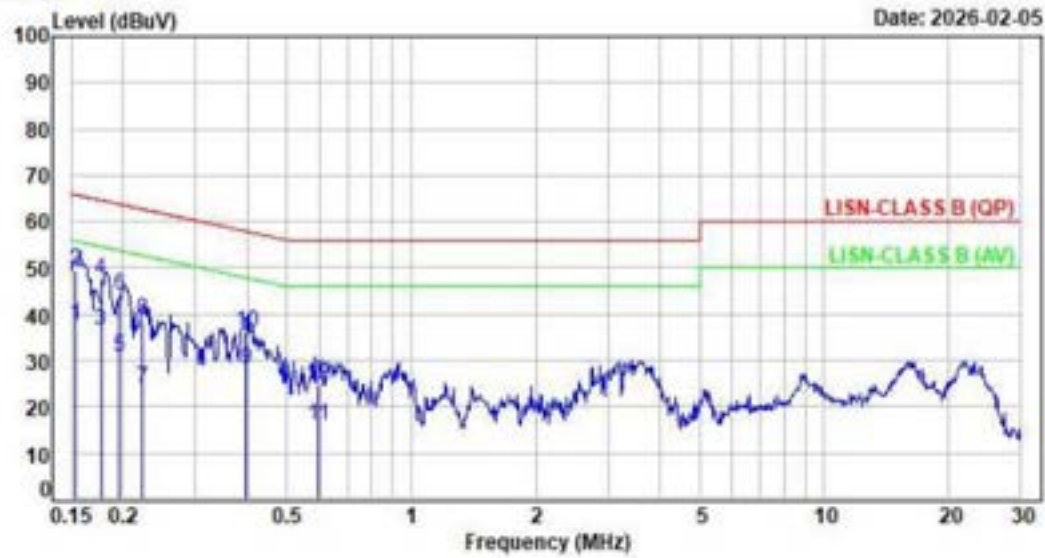


5.4. Test Result and Data

Non-Beamforming

Test Mode : 4TX 11be40 CH159 NSS1 MCS0
Voltage : From Adapter(AC 240V/60Hz)
Phase : Line

Data: 9



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1535	9.78	27.90	37.68	55.81	-18.13	Average	P
2	0.1535	9.78	39.76	49.54	65.81	-16.27	QP	P
3	0.1768	9.79	26.60	36.39	54.63	-18.24	Average	P
4	0.1768	9.79	37.84	47.63	64.63	-17.00	QP	P
5	0.1958	9.79	21.14	30.93	53.79	-22.86	Average	P
6	0.1958	9.79	34.44	44.23	63.79	-19.56	QP	P
7	0.2226	9.79	14.00	23.79	52.72	-28.93	Average	P
8	0.2226	9.79	29.02	38.81	62.72	-23.91	QP	P
9	0.3967	9.79	18.38	28.17	47.92	-19.75	Average	P
10	0.3967	9.79	26.27	36.06	57.92	-21.86	QP	P
11	0.5919	9.79	6.03	15.82	46.00	-30.18	Average	P
12	0.5919	9.79	15.01	24.80	56.00	-31.20	QP	P

Note: Level=Reading+Factor

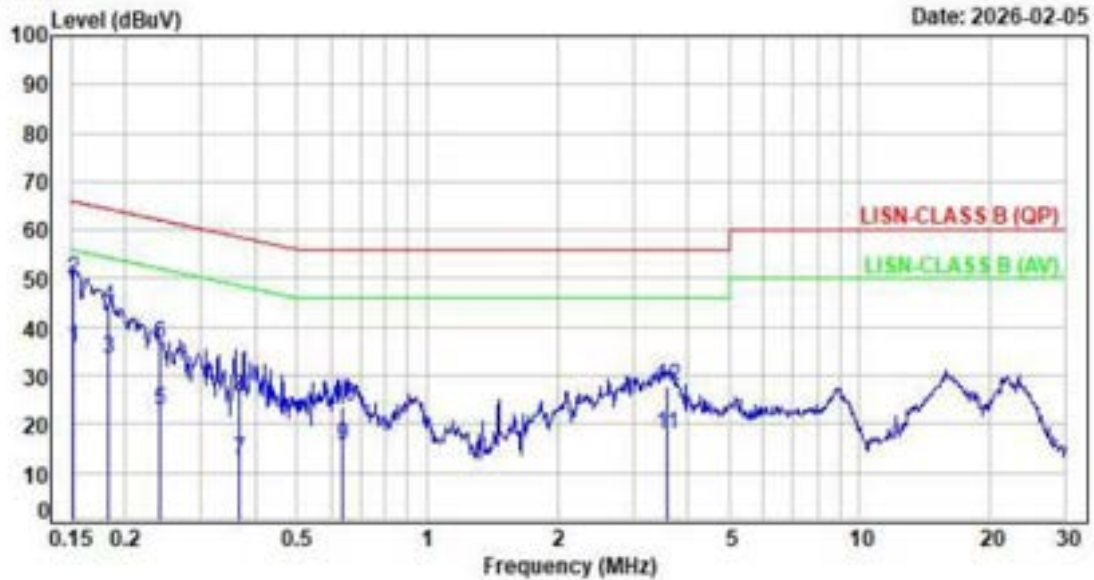
Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Test Mode : 4TX 11be40 CH159 NSS1 MCS0
Voltage : From Adapter(AC 240V/60Hz)
Phase : Neutral

Data: 10



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1519	9.79	25.93	35.72	55.90	-20.18	Average	P
2	0.1519	9.79	39.94	49.73	65.90	-16.17	QP	P
3	0.1830	9.80	23.56	33.36	54.35	-20.99	Average	P
4	0.1830	9.80	34.23	44.03	64.35	-20.32	QP	P
5	0.2407	9.80	13.17	22.97	52.07	-29.10	Average	P
6	0.2407	9.80	26.81	36.61	62.07	-25.46	QP	P
7	0.3690	9.80	2.77	12.57	48.52	-35.95	Average	P
8	0.3690	9.80	15.62	25.42	58.52	-33.10	QP	P
9	0.6349	9.80	5.97	15.77	46.00	-30.23	Average	P
10	0.6349	9.80	13.87	23.67	56.00	-32.33	QP	P
11	3.5902	9.87	8.19	18.06	46.00	-27.94	Average	P
12	3.5902	9.87	17.81	27.68	56.00	-28.32	QP	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



6. Test of Spurious Emission (Radiated)

6.1. Test Limit

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz 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 27dBm/MHz at the band edge.
- (5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.
- (7) The provisions of §15.205 apply to intentional radiators operating under this section.
- (8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.



6.2. Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

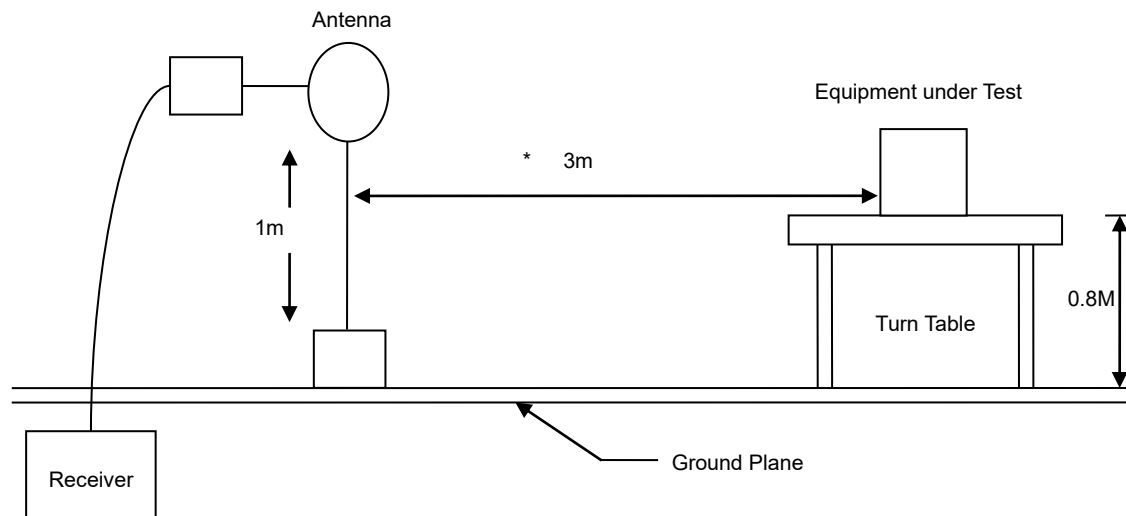
Note:

1. The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.
(Z-AXIS is the worst.)
2. Due to the test software function limit the operation band setting(200dBuV/m). There's no corresponding limitation in the actual test item.

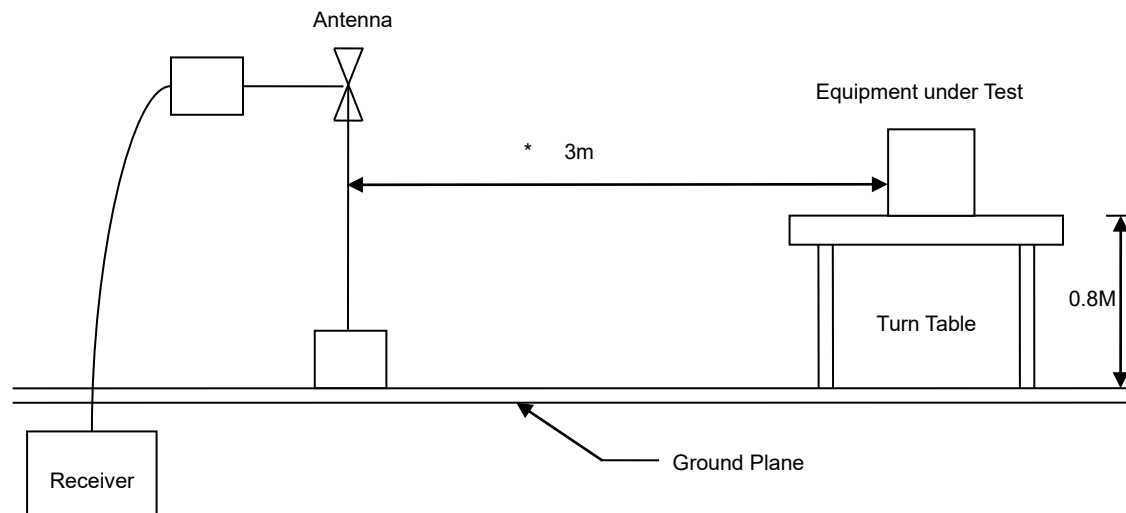


6.3. Typical Test Setup

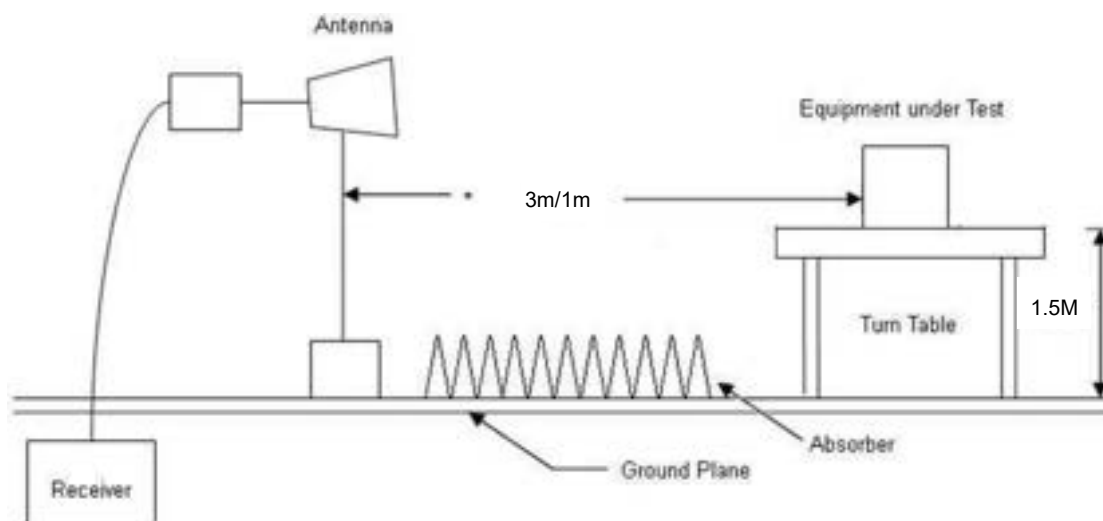
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup





6.4. Test Result and Data (9kHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

6.5. Test Result and Data (30MHz ~ 1GHz)

Refer to Appendix A

6.6. Test Result and Data (Bandedge)

Refer to Appendix B

6.7. Test Result and Data (1GHz ~ 7GHz)

Refer to Appendix C

6.8. Test Result and Data (7GHz ~ 18GHz)

Refer to Appendix D

6.9. Test Result and Data (18GHz ~ 40GHz)

Refer to Appendix E

**6.10.Restricted Bands of Operation**

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.150
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



7. On Time, Duty Cycle and Measurement methods

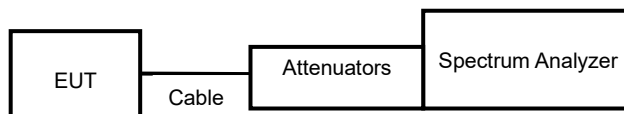
7.1. Test Limit

None; for reporting purposes only.

7.2. Test Procedure

KDB 789033 Zero-Span Spectrum Analyzer Method.

7.3. Test Setup Layout



7.4. Test Result and Data

Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
802.11a,6M	2.65	3.00	88.18%
802.11be EHT20	2.23	2.59	86.28%
802.11be EHT40	1.16	1.52	76.25%
802.11be EHT80	0.60	0.96	62.23%
802.11be EHT160	0.34	0.70	48.22%

7.5. Measurement Methods

26 dB and 6dB Emission BW	KDB 789033 D02 v02r01, Section C
99% Occupied BW	KDB 789033 D02 v02r01, Section D
Conducted Output Power	KDB 789033 D02 v02r01, Section E.2.d and E.3.b (Method PM-G)
Power Spectral Density	KDB 789033 D02 v02r01, Section F
Unwanted emissions in restricted bands	KDB 789033 D02 v02r01, Sections G and H
Unwanted emissions in non-restricted bands	KDB 789033 D02 v02r01, Sections G and H



Non-Beamforming

Modulation Type: 802.11a (6Mbps)



Modulation Type: 802.11be EHT80 (30.6Mbps)



Modulation Type: 802.11be EHT20 (7.3Mbps)



Modulation Type: 802.11be EHT160 (61.3Mbps)



Modulation Type: 802.11be EHT40 (14.6Mbps)





8. 6dB Bandwidth & 99% Occupied Bandwidth

8.1. Test Limit

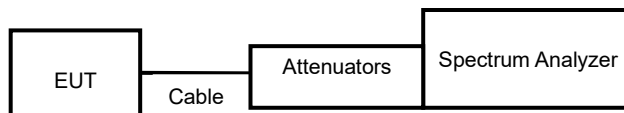
FCC §15.407

The minimum 6 dB bandwidth shall be at least 500 kHz.

8.2. Test Procedure

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW set to 100KHz, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

8.3. Test Setup Layout



**8.4. Test Result and Data**

Non-Beamforming

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth(MHz)				Minimum Limit (MHz)
			ANT E	ANT F	ANT G	ANT H	
11a	149	5745	16.05	16.31	16.04	16.32	0.50
11a	157	5785	16.30	16.05	16.31	16.30	0.50
11a	165	5825	16.30	16.31	16.29	16.31	0.50
11be EHT20	149	5745	18.89	18.83	18.67	18.90	0.50
11be EHT20	157	5785	18.90	18.70	18.91	18.69	0.50
11be EHT20	165	5825	18.88	18.76	18.31	18.79	0.50
11be EHT40	151	5755	37.95	37.91	37.93	37.94	0.50
11be EHT40	159	5795	37.93	37.88	37.93	37.93	0.50
11be EHT80	155	5775	77.16	76.97	76.85	77.27	0.50

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)			
			ANT E	ANT F	ANT G	ANT H
11a	149	5745	16.45	16.47	16.40	16.49
11a	157	5785	16.47	16.44	16.47	16.69
11a	165	5825	16.47	16.51	16.51	16.72
11be EHT20	149	5745	18.93	18.92	18.93	18.95
11be EHT20	157	5785	18.94	18.94	18.95	18.99
11be EHT20	165	5825	18.92	18.91	18.94	19.00
11be EHT40	151	5755	38.09	38.06	38.04	38.16
11be EHT40	159	5795	38.05	38.10	38.07	38.42
11be EHT80	155	5775	76.98	76.94	76.93	76.98



Non-Beamforming

UNII Emission Bandwidth Result (Extends across 5725MHz band)

Channel	Modulation Type	Data Rate / MCS	Frequency (MHz)	6dB Bandwidth(MHz)			
				ANT E	ANT F	ANT G	ANT H
144	11a	6 Mbps	5720	3.19	3.23	3.18	3.16
144	11be EHT20	NSS1-MCS0	5720	4.45	4.35	4.43	4.55
142	11be EHT40	NSS1-MCS0	5710	4.03	3.96	4.02	3.97
138	11be EHT80	NSS1-MCS0	5690	3.61	3.80	3.80	3.77

UNII Emission Bandwidth Result (Extends across 5725MHz band)

Channel	Modulation Type	Data Rate / MCS	Frequency (MHz)	99% Bandwidth(MHz)			
				ANT E	ANT F	ANT G	ANT H
144	11a	6 Mbps	5720	3.58	3.54	3.53	3.54
144	11be EHT20	NSS1-MCS0	5720	4.59	4.66	4.62	4.65
142	11be EHT40	NSS1-MCS0	5710	4.71	4.73	4.73	4.76
138	11be EHT80	NSS1-MCS0	5690	4.80	5.04	4.79	4.78



Non-Beamforming
6dB Bandwidth-ANT E
Modulation Type: 802.11a (6Mbps)
CH149



Modulation Type: 11be EHT20 (7.3Mbps)
CH149



CH157



CH157



CH165



CH165





6dB Bandwidth-ANT E

Modulation Type: 11be EHT40 (14.6Mbps)
CH151



Modulation Type: 11be EHT80 (30.6Mbps)
CH155



CH159





6dB Bandwidth-ANT E

Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)
CH144



Modulation Type: 11be EHT80 (30.6Mbps)
CH138



Modulation Type: 11be EHT20 (7.3Mbps)
CH144



Modulation Type: 11be EHT40 (14.6Mbps)
CH142





Non-Beamforming
99% Occupied Bandwidth-ANT E
Modulation Type: 802.11a (6Mbps)
CH149



Modulation Type: 11be EHT20 (7.3Mbps)
CH149



CH157



CH157



CH165



CH165





99% Occupied Bandwidth-ANT E
Modulation Type: 11be EHT40 (14.6Mbps)
CH151



Modulation Type: 11be EHT80 (30.6Mbps)
CH155



CH159





99% Occupied Bandwidth-ANT E

Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)
CH144



Modulation Type: 11be EHT80 (30.6Mbps)
CH138



Modulation Type: 11be EHT20 (7.3Mbps)
CH144



Modulation Type: 11be EHT40 (14.6Mbps)
CH142





Non-Beamforming
6dB Bandwidth-ANT F
Modulation Type: 802.11a (6Mbps)
CH149



Modulation Type: 11be EHT20 (7.3Mbps)
CH149



CH157



CH157



CH165



CH165





Modulation Type: 11be EHT80 (30.6Mbps)
CH155





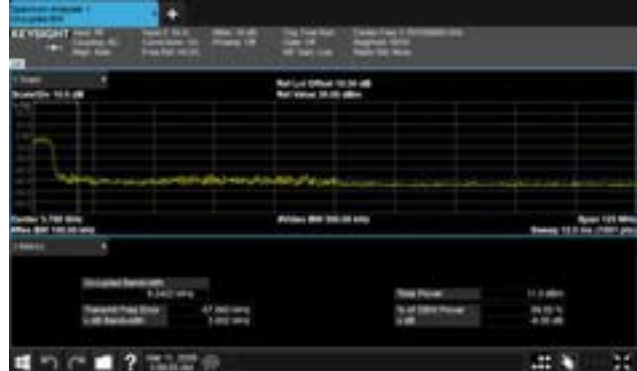
6dB Bandwidth-ANT F

Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)
CH144



Modulation Type: 11be EHT80 (30.6Mbps)
CH138



Modulation Type: 11be EHT20 (7.3Mbps)
CH144



Modulation Type: 11be EHT40 (14.6Mbps)
CH142





Non-Beamforming
99% Occupied Bandwidth-ANT F
Modulation Type: 802.11a (6Mbps)
CH149



Modulation Type: 11be EHT20 (7.3Mbps)
CH149



CH157



CH157



CH165



CH165





99% Occupied Bandwidth-ANT F
Modulation Type: 11be EHT40 (14.6Mbps)
CH151

Modulation Type: 11be EHT80 (30.6Mbps)
CH155

CH159





99% Occupied Bandwidth-ANT F

Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)
CH144



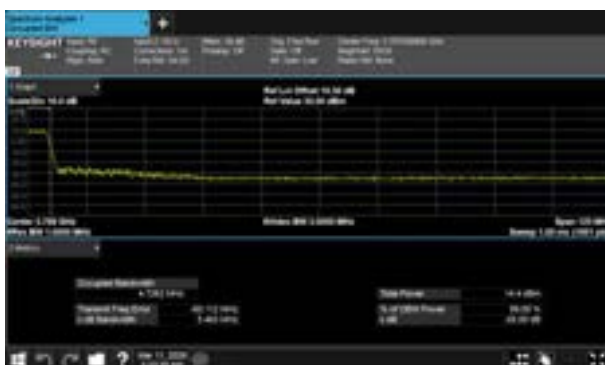
Modulation Type: 11be EHT80 (30.6Mbps)
CH138



Modulation Type: 11be EHT20 (7.3Mbps)
CH144



Modulation Type: 11be EHT40 (14.6Mbps)
CH142





Non-Beamforming
6dB Bandwidth-ANT G
Modulation Type: 802.11a (6Mbps)
CH149



Modulation Type: 11be EHT20 (7.3Mbps)
CH149



CH157



CH157



CH165



CH165





6dB Bandwidth-ANT G

Modulation Type: 11be EHT40 (14.6Mbps)
CH151



Modulation Type: 11be EHT80 (30.6Mbps)
CH155



CH159





6dB Bandwidth-ANT G

Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)
CH144



Modulation Type: 11be EHT80 (30.6Mbps)
CH138



Modulation Type: 11be EHT20 (7.3Mbps)
CH144



Modulation Type: 11be EHT40 (14.6Mbps)
CH142





Non-Beamforming
99% Occupied Bandwidth-ANT G
Modulation Type: 802.11a (6Mbps)
CH149



Modulation Type: 11be EHT20 (7.3Mbps)
CH149



CH157



CH157



CH165



CH165





99% Occupied Bandwidth-ANT G
Modulation Type: 11be EHT40 (14.6Mbps)
CH151



Modulation Type: 11be EHT80 (30.6Mbps)
CH155



CH159





99% Occupied Bandwidth-ANT G
Extends across 5725MHz Band, Straddle Channel
Modulation Type: 802.11a (6Mbps)
CH144



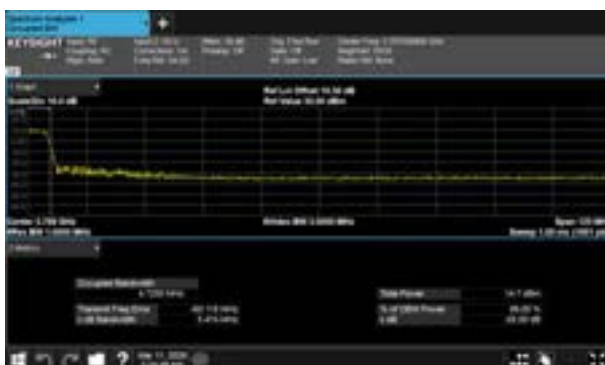
Modulation Type: 11be EHT80 (30.6Mbps)
CH138



Modulation Type: 11be EHT20 (7.3Mbps)
CH144



Modulation Type: 11be EHT40 (14.6Mbps)
CH142





Non-Beamforming
6dB Bandwidth-ANT H
Modulation Type: 802.11a (6Mbps)
CH149



Modulation Type: 11be EHT20 (7.3Mbps)
CH149



CH157



CH157



CH165



CH165





6dB Bandwidth-ANT H

Modulation Type: 11be EHT40 (14.6Mbps)
CH151



Modulation Type: 11be EHT80 (30.6Mbps)
CH155



CH159





6dB Bandwidth-ANT H

Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)
CH144



Modulation Type: 11be EHT80 (30.6Mbps)
CH138



Modulation Type: 11be EHT20 (7.3Mbps)
CH144



Modulation Type: 11be EHT40 (14.6Mbps)
CH142





Non-Beamforming
99% Occupied Bandwidth-ANT H
Modulation Type: 802.11a (6Mbps)
CH149



Modulation Type: 11be EHT20 (7.3Mbps)
CH149



CH157



CH157



CH165



CH165





99% Occupied Bandwidth-ANT H
Modulation Type: 11be EHT40 (14.6Mbps)
CH151



Modulation Type: 11be EHT80 (30.6Mbps)
CH155



CH159





99% Occupied Bandwidth-ANT H
Extends across 5725MHz Band, Straddle Channel
Modulation Type: 802.11a (6Mbps)
CH144



Modulation Type: 11be EHT80 (30.6Mbps)
CH138



Modulation Type: 11be EHT20 (7.3Mbps)
CH144



Modulation Type: 11be EHT40 (14.6Mbps)
CH142





9. 26dB Bandwidth & 99% Occupied Bandwidth

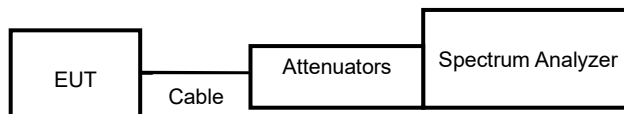
9.1. Test Limit

None; for reporting purposes only.

9.2. Test Procedure

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW = approximately 1% of the emission bandwidth, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

9.3. Test Setup Layout



9.4. Test Result and Data

Non-Beamforming

In the 5.2G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)				99% Bandwidth(MHz)			
			ANT E	ANT F	ANT G	ANT H	ANT E	ANT F	ANT G	ANT H
11a	36	5180	18.68	18.58	18.67	18.53	16.36	16.37	16.46	16.39
11a	40	5200	26.33	26.83	28.22	29.08	16.46	16.52	16.57	16.48
11a	48	5240	23.66	25.36	26.36	28.07	16.42	16.52	16.41	16.52
11be EHT20	36	5180	20.59	20.46	20.46	20.51	18.94	18.92	18.91	18.92
11be EHT20	40	5200	23.1	27.32	24.02	27.48	18.93	18.98	18.99	18.96
11be EHT20	48	5240	21.24	22.99	23.21	27.55	18.95	18.96	18.92	18.95
11be EHT40	38	5190	40.79	40.84	40.85	40.82	37.96	37.99	37.95	37.98
11be EHT40	46	5230	40.96	40.81	45.98	46.23	38.04	37.96	38.07	38.03
11be EHT80	42	5210	80.39	80.31	80.28	80.42	76.94	76.97	76.98	76.92