

RF Test Report

Applicant : Getac Technology Corporation
Product Name : Wireless Module
Trade Name : Getac
Model Number : BE201NGW
Applicable Standard : FCC 47 CFR PART 15 SUBPART E
ANSI C63.10:2013
Received Date : Jul. 04, 2025
Test Period : Jul. 18, 2025
Issued Date : Aug. 13, 2025

Issued by

Eurofins E&E Wireless Taiwan Co., Ltd.
No. 140-1, Changan Street, Bade District,
Taoyuan City, Taiwan (R.O.C.)
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Taiwan Accreditation Foundation accreditation number: 1330
Frequency Range: 9 kHz to 325 GHz
Bade test site :
Test Firm Registration Number: 226252
Test Firm Designation Number: TW0010
Wugu test site :
Test Firm Registration Number: 191812
Test Firm Designation Number: TW0034

Note:

1. The test results are valid only for samples provided by customers and under the test conditions described in this report.
2. This report shall not be reproduced except in full, without the written approval of Eurofins E&E Wireless Taiwan Co., Ltd.
3. The relevant information is provided by customers in this test report. According to the correctness, appropriateness or completeness of the information provided by the customer, if there is any doubt or error in the information which affects the validity of the test results, the laboratory does not take the responsibility.

Revision History

Rev.	Issued Date	Description	Revised By
00	Aug. 13, 2025	Initial Issue	Abby Hsu

Verification of Compliance

Applicant : Getac Technology Corporation

Product Name : Wireless Module

Trade Name : Getac

Model Number : BE201NGW

FCC ID : QYLBE201NG

Applicable Standard : FCC 47 CFR PART 15 SUBPART E
ANSI C63.10:2013

Test Result : Complied

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Eurofins E&E Wireless Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Eurofins E&E Wireless Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By : _____

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Appendix A. Test Setup Photographs

1 General Information

1.1. Summary of Test Result

Standard	Item	Result	Remark
15.407(b)(9) 15.207	AC Power Conducted Emission	N/A	Note
15.407(b) 15.205 / 15.209	Transmitter Radiated Emissions	PASS	---
15.407(a)	Maximum Conducted Output Power	N/A	Note
15.407(a)	26 dB RF Bandwidth	Reference	---
15.407(e)	6 dB RF Bandwidth	N/A	Note
15.407(a)	Maximum Power Spectral Density	N/A	Note
15.407(c)	Automatically discontinue transmission	N/A	Note
15.407(a) 15.203	Antenna Requirement	N/A	Note

Note : No test for this item, test results could be referred to RF module BE201NGW report (231109-03.TR01, 231109-03.TR02, 231109-03.TR09, 231109-03.TR10, 231109-03.TR13).

Decision Rule

- ☒ Uncertainty is not included.
- ☐ Uncertainty is included.

Standard	Description
CFR47, Part 15, Subpart C	Intentional Radiators
CFR47, Part 15, Subpart E	Unlicensed National Information Infrastructure Devices
ANSI C63. 10: 2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB789033: D02	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
KDB 662911 D01 v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)

1.2. Testing Location

Lab Name: Eurofins E&E Wireless Taiwan Co., Ltd.

Site Address: ☐ No. 140-1, Changan Street, Bade District, Taoyuan City, Taiwan (R.O.C.)

Site Address: ☒ No. 2, Wuquan 5th Rd. Wugu Dist., New Taipei City, Taiwan (R.O.C.)

1.3. Measurement Uncertainty

Test Item	Frequency	Uncertainty				
		BD		WG		
Conducted Emission	150 kHz ~ 30 MHz	2.7 dB		2.6 dB		
Conducted Output Power		1.1 dB		1.1 dB		
RF Bandwidth		4.4 %		4.4 %		
Power Spectral Density		1.1 dB		1.1 dB		
Duty Cycle		0.3 %		0.3 %		
Time Occupancy		0.2 %		0.1 %		
Test Item	Frequency	Uncertainty				
		96601-BD	96603-BD	96602-WG	96603-WG	96604-WG
Radiated Emission	9 kHz ~ 30 MHz	1.8 dB	1.8 dB	1.9 dB	1.9 dB	1.9 dB
	30 MHz ~ 1000 MHz	4.7 dB	4.7 dB	4.7 dB	4.7 dB	4.5 dB
	1000 MHz ~ 18000 MHz	4.7 dB	4.8 dB	4.6 dB	4.7 dB	5.1 dB
	18000 MHz ~ 26500 MHz	4.0 dB	4.1 dB	3.9 dB	4.1 dB	4.3 dB
	26500 MHz ~ 40000 MHz	4.2 dB	4.2 dB	4.2 dB	4.2 dB	4.6 dB

1.4. Test Site Environment

Items	Required (IEC 60068-1)	Interval(*)
Temperature (°C)	15-35	20-30
Humidity (%RH)	25-75	45-75

(*)The measurement ambient temperature is within this range.

2 EUT Description

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity(except Max. RF Output Power, EIRP).

Applicant	Getac Technology Corporation 5F., Building A, No. 209, Sec. 1, Nangang Rd., Nangang Dist., Taipei City, 115018, Taiwan		
Product Name	Wireless Module		
Trade Name	Getac		
Model Number	BE201NGW		
FCC ID	QYLBE201NG		
Host Information	Product Name: Tablet Trade Name: Getac Model Name: UX10, UX10G3, UX10-301, UX10-321, UX10-Ex, UX10G4, UX10G5, UX10G5AR, UX10Y(Y= 10 characters, Y can be 0 to 9, A to Z, a to z, "/", "\", " ", " _ " or blank for marketing purpose) (All models are electrically identical, different model names are for marketing purpose)		
Operate Frequency	Frequency Band		Frequency Range (MHz)
	802.11a	U-NII Band 1	5180 – 5240
		U-NII Band 2-A	5260 – 5320
		U-NII Band 2-C	5500 – 5700
		Straddle band	5720
		U-NII Band 3	5745 – 5825
		U-NII Band 4 (5850 - 5895 MHz)	5845 – 5885
	802.11n HT20 / 802.11ac VHT20/ 802.11ax HE20 802.11be EHT20	U-NII Band 1	5180 – 5240
		U-NII Band 2-A	5260 – 5320
		U-NII Band 2-C	5500 – 5700
		Straddle band	5720
		U-NII Band 3	5745 – 5825
		U-NII Band 4 (5850 - 5895 MHz)	5845 – 5885
	802.11n HT40 / 802.11ac VHT40/ 802.11ax HE40 802.11be EHT40	U-NII Band 1	5190 – 5230
		U-NII Band 2-A	5270 – 5310
		U-NII Band 2-C	5510 – 5670
		Straddle band	5710
		U-NII Band 3	5755 – 5795
		U-NII Band 4 (5850 - 5895 MHz)	5835 – 5875
	802.11ac VHT80/ 802.11ax HE80 802.11be EHT80	U-NII Band 1	5210
		U-NII Band 2-A	5290
		U-NII Band 2-C	5530 – 5610
		Straddle band	5690
		U-NII Band 3	5775
		U-NII Band 4 (5850 - 5895 MHz)	5855

Operate Frequency	802.11ac VHT160/ 802.11ax HE160 802.11be EHT160	U-NII Band 1 &U-NII Band 2-A	5250		
		U-NII Band 4 (5850 - 5895 MHz)	5815		
Modulation Type	OFDM/OFDMA				
Antenna information	Antenna	Model	Type	Max. Gain (dBi)	
	ANT-0 (Main)	UX10G3 WIFI MAIN ANT	PIFA Antenna	U-NII Band 1	2.42
				U-NII Band 2-A	3.16
				U-NII Band 2-C	3.06
				U-NII Band 3	2.89
				U-NII Band 4	2.89
	ANT-1 (Aux)	UX10G3 AUXWIFI ANT	PIFA Antenna	U-NII Band 1	0.95
				U-NII Band 2-A	1.55
				U-NII Band 2-C	-0.44
				U-NII Band 3	0.45
				U-NII Band 4	0.45
Antenna Delivery	Reference section 3.1				
Operate Temp. Range	0 ~ +80 °C				
EUT Power Rating	3.3 Vdc				

Testing Sample No.	
Test Item	Sample Number
Radiation	C257050_A003

EUT Modify Description :

Modify Description:

1. Module in host
2. After replacing the antenna, the gain was lower than the Module report antenna.

After evaluation, the Simultaneous Transmission need to be retested.

For other test data, please refer to the Module report.

Equipment Type		
Outdoor access point	point-to-point	---
	point-to-multipoint	---
Indoor access point		---
Fixed point-to-point access points		---
Client devices		V

3 Test Methodology

3.1. Mode of Operation

Decision of Test Eurofins has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Pre-Test Mode	Final-Test Mode
Simultaneous Transmission	V

Software used to control the EUT for staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes.

By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "X axis" position was the worst, then the final test was executed the worst condition and test data were recorded in this report.

Test Mode	Antenna Delivery	Data Rate (Mbps)	Band	Test Channel
802.11a	2TX (Diversity)	6	U-NII Band 1	36, 40, 48
			U-NII Band 2-A	52, 56, 64
			U-NII Band 2-C	100, 112, 140, 144
			U-NII Band 3	144, 149, 157, 165
			U-NII Band 4 (5850 - 5895 MHz)	169, 173, 177
802.11n HT20	2TX (MIMO)	26	U-NII Band 1	36, 40, 48
			U-NII Band 2-A	52, 56, 64
			U-NII Band 2-C	100, 112, 140, 144
			U-NII Band 3	144, 149, 157, 165
			U-NII Band 4 (5850 - 5895 MHz)	169, 173, 177
802.11n HT40	2TX (MIMO)	54	U-NII Band 1	38, 46
			U-NII Band 2-A	54, 62
			U-NII Band 2-C	102, 110, 134, 142
			U-NII Band 3	142, 151, 159
			U-NII Band 4 (5850 - 5895 MHz)	167, 175
802.11ac VHT20	2TX (MIMO)	26	U-NII Band 1	36, 40, 48
			U-NII Band 2-A	52, 56, 64
			U-NII Band 2-C	100, 112, 140, 144
			U-NII Band 3	144, 149, 157, 165
			U-NII Band 4 (5850 - 5895 MHz)	169, 173, 177
802.11ac VHT40	2TX (MIMO)	54	U-NII Band 1	38, 46
			U-NII Band 2-A	54, 62
			U-NII Band 2-C	102, 110, 134, 142
			U-NII Band 3	142, 151, 159
			U-NII Band 4 (5850 - 5895 MHz)	167, 175
802.11ac VHT80	2TX (MIMO)	117.2	U-NII Band 1	42
			U-NII Band 2-A	58
			U-NII Band 2-C	106, 122, 138
			U-NII Band 3	138, 155
			U-NII Band 4 (5850 - 5895 MHz)	171

Test Mode	Antenna Delivery	Data Rate (Mbps)	Band	Test Channel
802.11ax HE20	2TX (MIMO)	MCS 0	U-NII Band 1	36, 40, 48
			U-NII Band 2-A	52, 56, 64
			U-NII Band 2-C	100, 112, 140, 144
			U-NII Band 3	144, 149, 157, 165
			U-NII Band 4 (5850 - 5895 MHz)	169, 173, 177
802.11ax HE40	2TX (MIMO)	MCS 0	U-NII Band 1	38, 46
			U-NII Band 2-A	54, 62
			U-NII Band 2-C	102, 110, 134, 142
			U-NII Band 3	142, 151, 159
			U-NII Band 4 (5850 - 5895 MHz)	167, 175
802.11ax HE80	2TX (MIMO)	MCS 0	U-NII Band 1	42
			U-NII Band 2-A	58
			U-NII Band 2-C	106, 122, 138
			U-NII Band 3	138, 155
			U-NII Band 4 (5850 - 5895 MHz)	171

Test Mode	Antenna Delivery	Data Rate (Mbps)	Band	Test Channel
802.11be EHT20	2TX (MIMO)	MCS 0	U-NII Band 1	36, 40, 48
			U-NII Band 2-A	52, 56, 64
			U-NII Band 2-C	100, 112, 140, 144
			U-NII Band 3	144, 149, 157, 165
			U-NII Band 4 (5850 - 5895 MHz)	169, 173, 177
802.11be EHT40	2TX (MIMO)	MCS 0	U-NII Band 1	38, 46
			U-NII Band 2-A	54, 62
			U-NII Band 2-C	102, 110, 134, 142
			U-NII Band 3	142, 151, 159
			U-NII Band 4 (5850 - 5895 MHz)	167, 175
802.11be EHT80	2TX (MIMO)	MCS 0	U-NII Band 1	42
			U-NII Band 2-A	58
			U-NII Band 2-C	106, 122, 138
			U-NII Band 3	138, 155
			U-NII Band 4 (5850 - 5895 MHz)	171

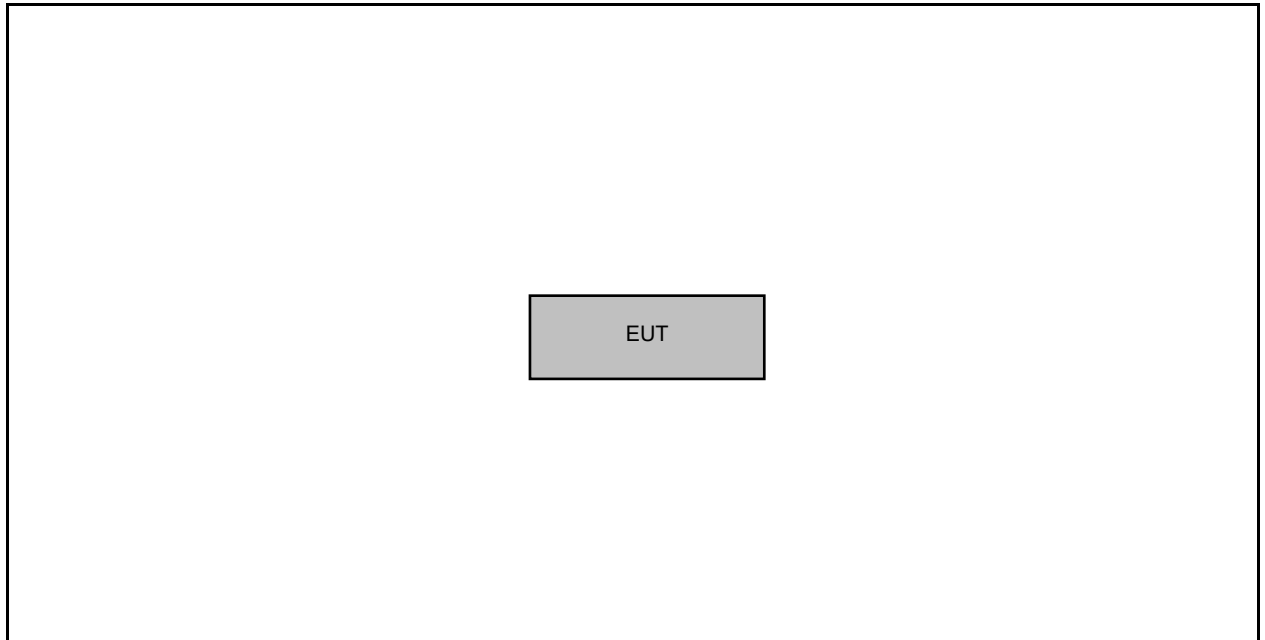
3.2. EUT Test Step

The EUT is operated in the engineering mode to fix the TX frequency for the purposes of measurement. According to its specifications, the EUT must comply with the requirements of Section 15.407 under the FCC Rules Part 15 Subpart E.

1.	Setup the EUT shown on "Configuration of Test System Details".
2.	Turn on the power of all equipment.
3.	Turn on TX function.
4.	EUT run test program.

3.3. Configuration of Test System Details

Radiated Emissions



	Product	Manufacturer	Model Number	Serial Number	Power Cord
(1)	---	---	---	---	---

3.4. Test Instruments

For Radiated Emissions

Test Period: Jul. 18, 2025 ~ Jul. 18, 2025

Testing Engineer: Marin Lee

Radiation test sites		Semi Anechoic Room 96602-WG				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
<input checked="" type="checkbox"/>	Broadband Horn Antenna (1 GHz~18 GHz)	RF SPIN	DRH18-E	210305A18ES	Feb. 19, 2025	1 year
<input checked="" type="checkbox"/>	Broadband Horn Antenna (15 GHz~40 GHz)	Schwarzbeck Mess-Elektronik	BBHA9170	01133	Jan. 14, 2025	1 year
<input checked="" type="checkbox"/>	Spectrum Analyzer (10 Hz~44 GHz)	KEYSIGHT	N9020B	MY60112362	Jan. 16, 2025	1 year
<input checked="" type="checkbox"/>	Pre-Amplifier	EMCI	EMC118A45SE	980822	Nov. 26, 2024	1 year
<input checked="" type="checkbox"/>	Pre-Amplifier	EMCI	EMC184045SE	980861	Dec. 18, 2024	1 year
<input checked="" type="checkbox"/>	Coaxial Cable (9 kHz~1000 MHz)	EMCI	EMCCFD400-NM- NM-2000	211006	Oct. 24, 2024	1 year
<input checked="" type="checkbox"/>	Coaxial Cable (9 kHz~1000 MHz)	EMCI	EMCCFD400-NM- NM-2000	211007	Oct. 24, 2024	1 year
<input checked="" type="checkbox"/>	Coaxial Cable (9 kHz~1000 MHz)	EMCI	EMCCFD400-NM- NM-6000	211015	Oct. 24, 2024	1 year
<input checked="" type="checkbox"/>	Coaxial Cable (1 GHz~18 GHz)	EMCI	EMC104-SM-SM- 1000	211026	Oct. 24, 2024	1 year
<input checked="" type="checkbox"/>	Coaxial Cable (1 GHz~18 GHz)	EMCI	EMC104-SM-SM- 2000	211035	Oct. 24, 2024	1 year
<input checked="" type="checkbox"/>	Coaxial Cable (1 GHz~18 GHz)	EMCI	EMC104-SM-SM- 8000	211036	Oct. 24, 2024	1 year
<input checked="" type="checkbox"/>	Coaxial Cable (18 GHz~40 GHz)	EMCI	EMC101G-KM- KM-600	211211	Jan. 15, 2025	1 year
<input checked="" type="checkbox"/>	Coaxial Cable (18 GHz~40 GHz)	EMCI	EMC101G-KM- KM-2000	211210	Jan. 15, 2025	1 year
<input checked="" type="checkbox"/>	Coaxial Cable (18 GHz~40 GHz)	EMCI	EMC101G-KM- KM-6000	211209	Jan. 15, 2025	1 year

Note: N.C.R. = No Calibration Request

For Radiated Emissions

Test Period: Jul. 18, 2025 ~ Jul. 18, 2025

Testing Engineer: Marin Lee

Radiation test sites		Semi Anechoic Room 96602-WG				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
<input checked="" type="checkbox"/>	Highpass Filter	Warison	WFIL-H3000-20000F	WR4BBFWC2B1	Oct. 24, 2024	1 year
<input checked="" type="checkbox"/>	Highpass Filter	Warison	WFIL-H8000-26000F	001	Oct. 24, 2024	1 year
<input checked="" type="checkbox"/>	Software	R_RAM	V1.3	N/A	N.C.R.	---

Note: N.C.R. = No Calibration Request

4 Measurement Procedure

4.1. Transmitter Radiated Emissions Measurement

■ Limit

- (1) Undesirable emission limits. Except as shown in paragraph (b)(9) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
- (a) 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.
 - (b) 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.
 - (c) 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.
 - (d) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) 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 25 MHz 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 27 dBm/MHz at the band edge.
 - (e) For transmitters operating solely in the 5.850-5.895 GHz band or operating on a channel that spans across 5.725-5.895 GHz:

Device Type		Limit
<input type="checkbox"/>	indoor access point	(i) all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925 GHz.
<input type="checkbox"/>	subordinate	(ii) all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.
■	client	(i) all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz. (ii) all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

IRP (dBm)	Field Strength at 3 m (dBuV/m)
-27	68.3

(2) Limits of Radiated Emission Measurement

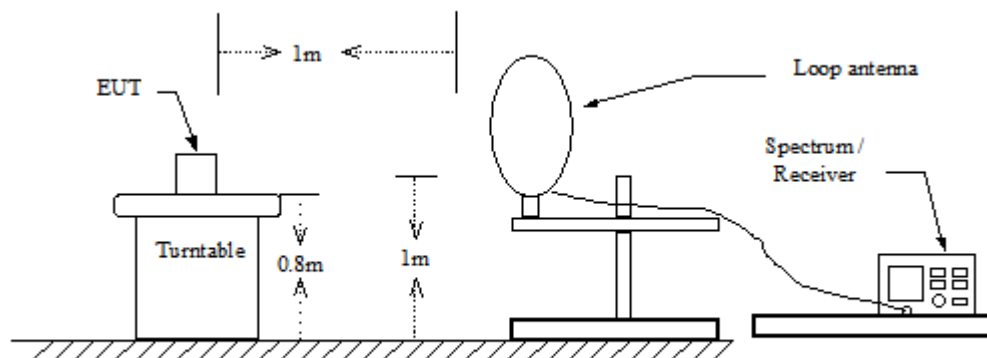
Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequency Range (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	10	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

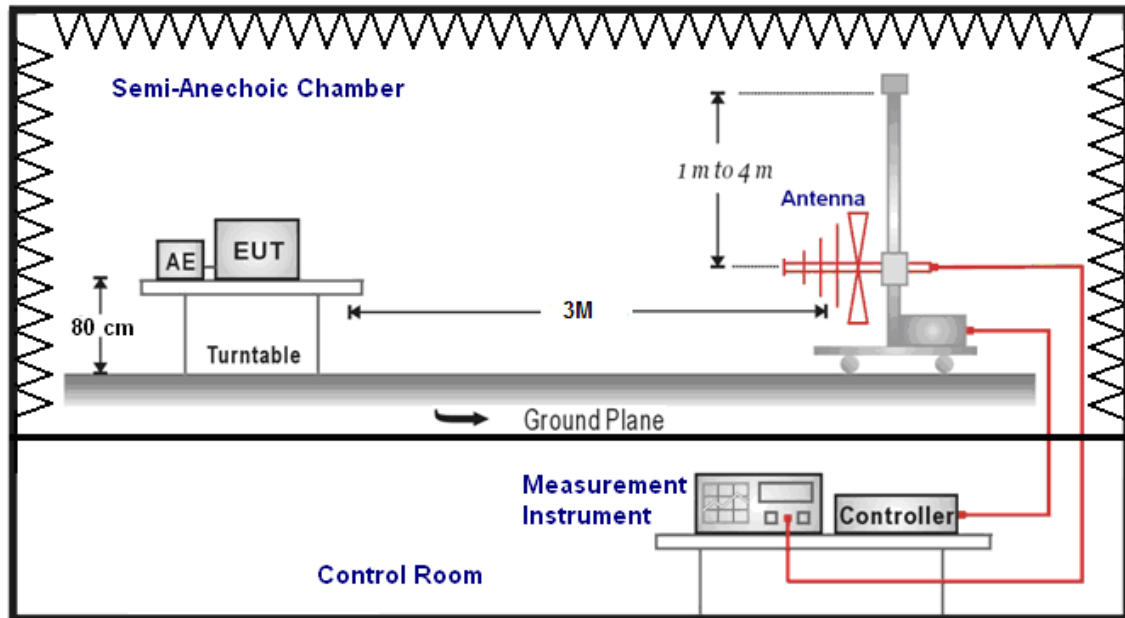
- Note: 1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

■ Setup

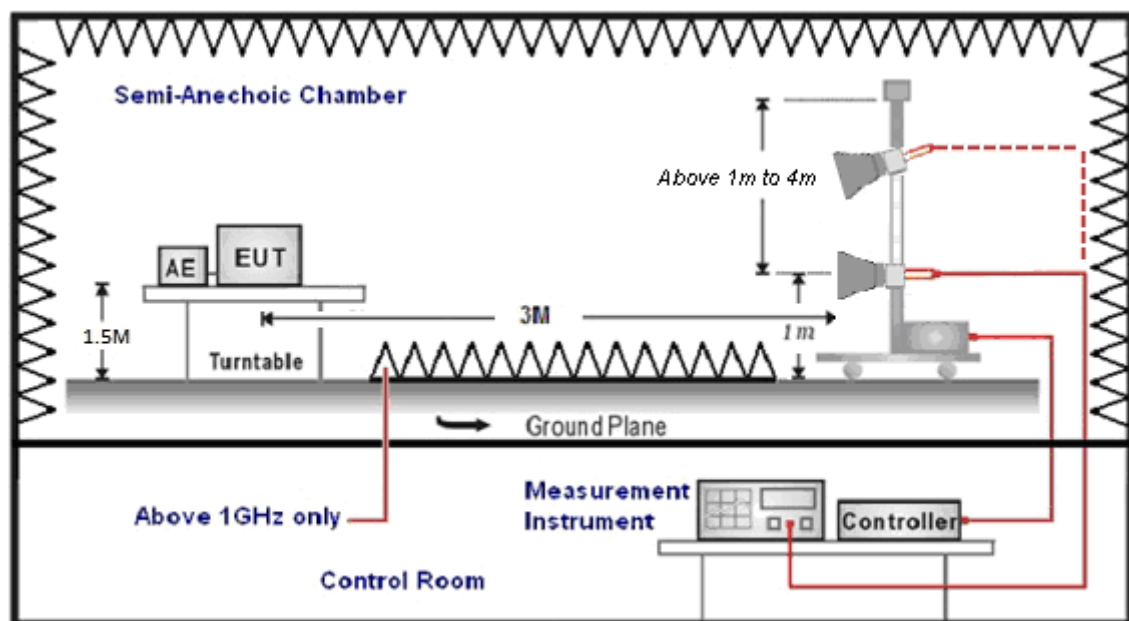
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



■ Test Procedure

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 or 1.5 meters height (below 1 GHz use 0.8 m turntable / above 1 GHz use 1.5 m turntable), top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 9 kHz to 40 GHz is investigated.

For measurements below 30 MHz the resolution bandwidth is set to 10 kHz for peak detection measurements or 9 kHz for quasi-peak detection measurements. The video bandwidth is 3 times of the resolution bandwidth.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For restricted measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements and 10 Hz for average measurements when Duty cycle > 0.98 / 1/T for average measurements when Duty cycle < 0.98.

For out of band measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements.

A nonconductive material surrounded the EUT to supporting the EUT for standing on three orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Trilog-Broadband Antenna at 3 Meter and the ETS-Lindgren Double-Ridged Waveguide Horn antenna Schwarzbeck Mess-Elektronik Broadband Horn Antenna was used in frequencies 1 – 40 GHz at a distance of 3 meter. The antenna at an angle toward the source of the emission. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20 dB/decade).

For testing above 1 GHz, the emission level of the EUT in peak mode was 20 dB 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.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts per meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro volts per meter (dBuV/m).

Data of measurement within this frequency range without mark in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.

The actual field intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

$$(1) \text{ Amplitude (dBuV/m) = FI (dBuV) + AF (dBuV) + CL (dBuV) - Gain (dB)}$$

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

$$(2) \text{ Actual Amplitude (dBuV/m) = Amplitude (dBuV) - Dis(dB)}$$

The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:

(a) For fundamental frequency : Transmitter Output < +30 dBm

(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

Measuring Instruments and setting

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	40 GHz
RBW/VBW(Emission in restricted band)	1 MHz / 3 MHz for Peak 1 MHz / (1/T) for Average
RBW/VBW(Emission in non-restricted band)	1 MHz / 3 MHz for Peak

4.2. Antenna Requirement

■ Requirement

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

■ Antenna Connector Construction

See section 2 – antenna information.

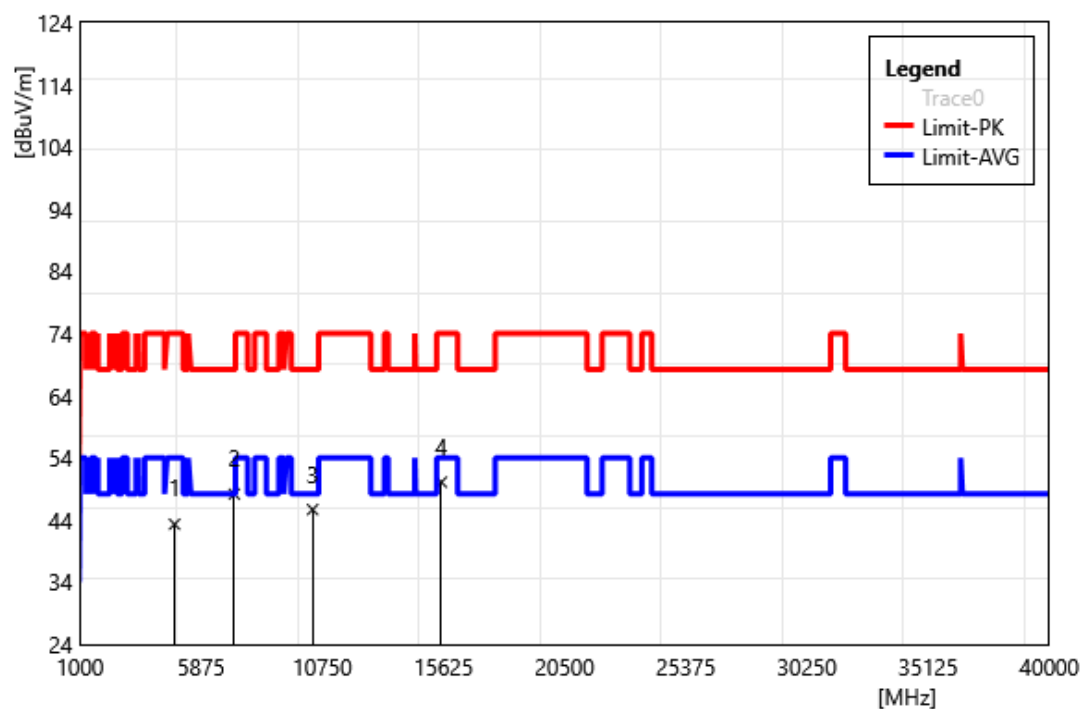
5 Test Results

5.1. Radiated Emission Measurement

Harmonic

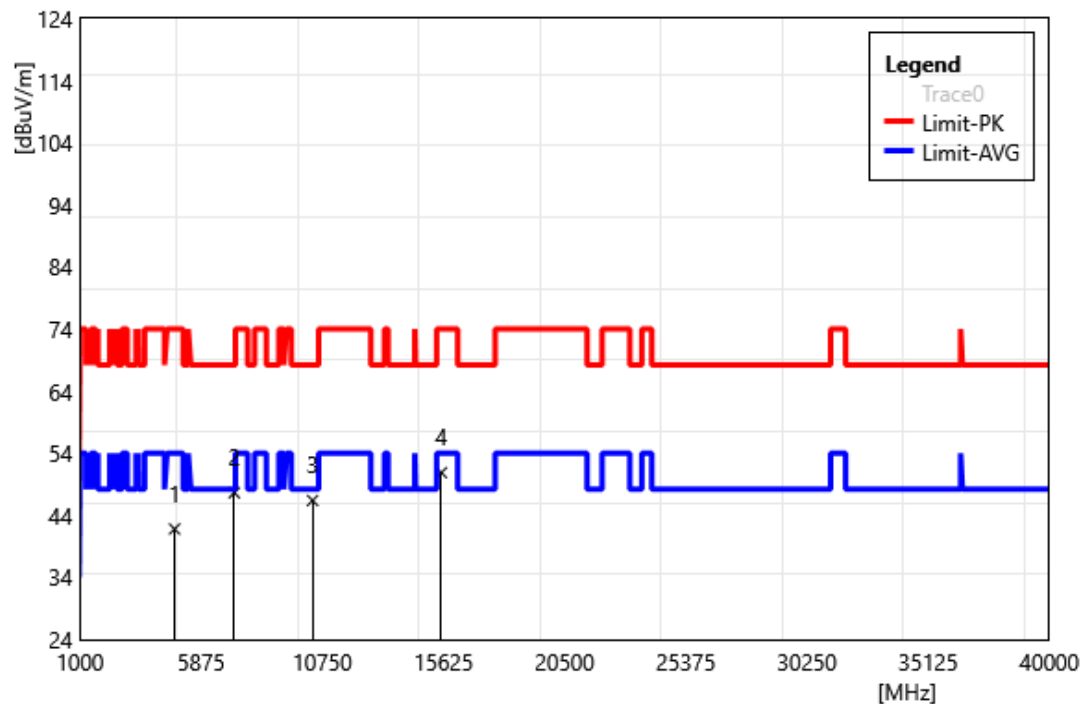
Above 1 GHz

Test Site:	96602 - WG	Standard:	Part 15.407
Test Mode:	Colocation		
Polarization:	Horizontal		
Remark:	5G+BT		



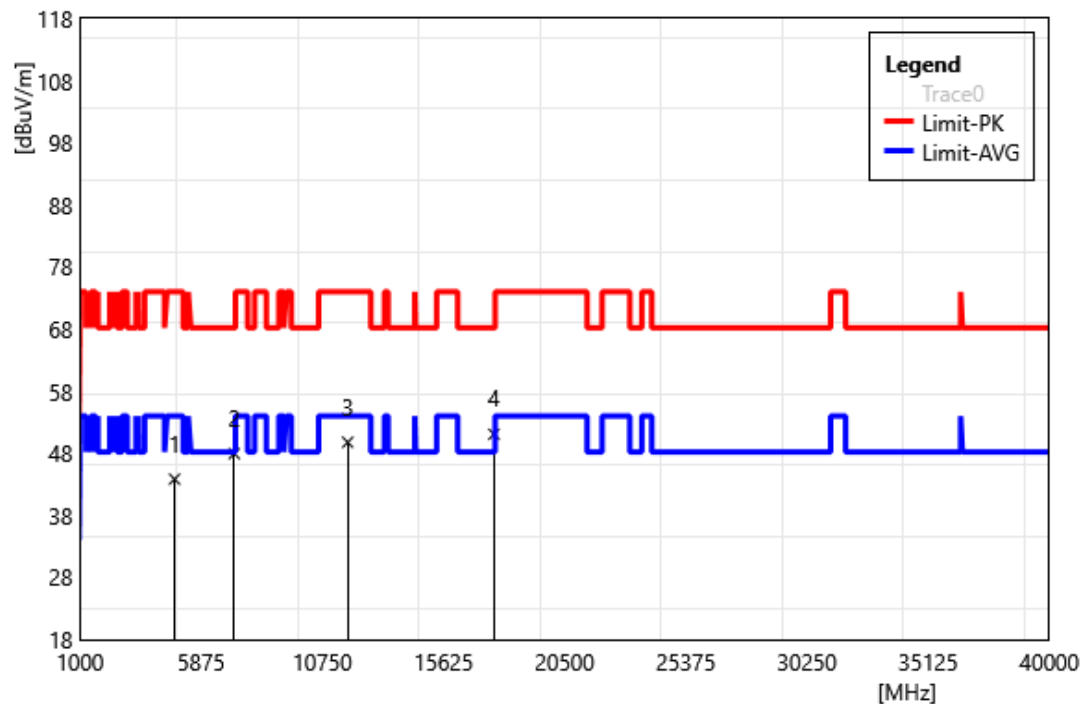
ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
1	4804.00	41.98	1.35	43.33	74.00	-30.67	PEAK
2	7206.00	41.37	6.81	48.18	68.20	-20.02	PEAK
3	10360.00	39.78	5.91	45.69	68.20	-22.51	PEAK
4	15540.00	42.01	8.09	50.10	74.00	-23.90	PEAK

Test Site:	96602 - WG	Standard:	Part 15.407
Test Mode:	Colocation		
Polarization:	Vertical		
Remark:	5G+BT		



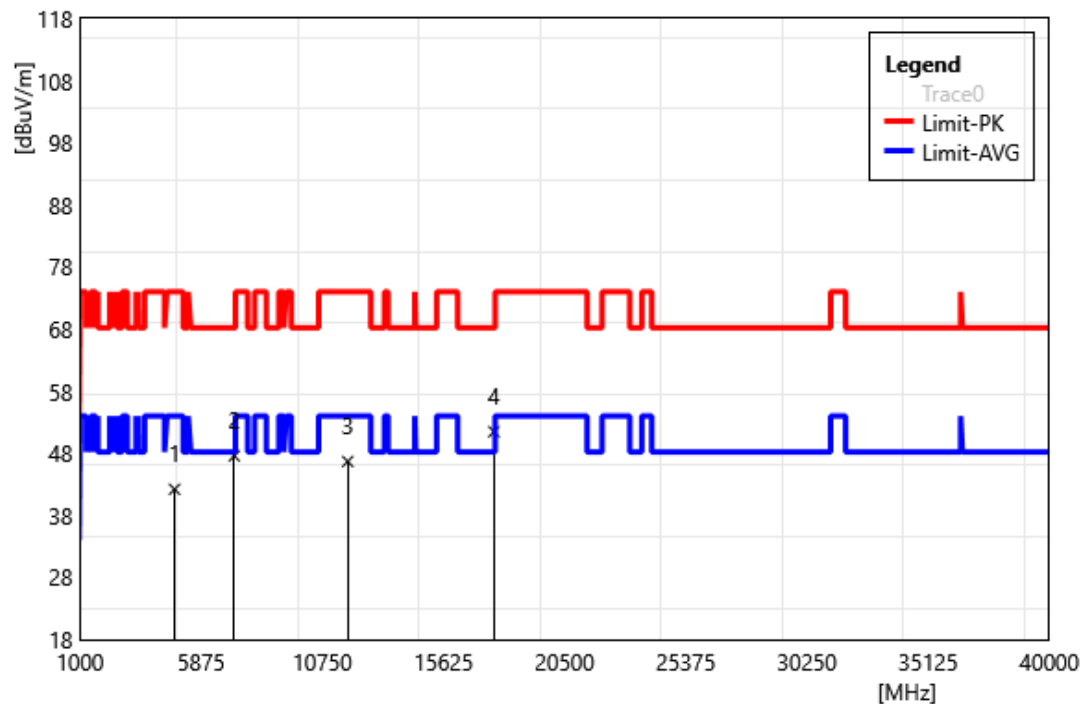
ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
1	4804.00	40.45	1.35	41.80	74.00	-32.20	PEAK
2	7206.00	40.83	6.81	47.64	68.20	-20.56	PEAK
3	10360.00	40.47	5.91	46.38	68.20	-21.82	PEAK
4	15540.00	42.79	8.09	50.88	74.00	-23.12	PEAK

Test Site:	96602 - WG	Standard:	Part 15.407
Test Mode:	Colocation		
Polarization:	Horizontal		
Remark:	5.9G+BT		



ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
1	4804.00	42.47	1.35	43.82	74.00	-30.18	PEAK
2	7206.00	41.13	6.81	47.94	68.20	-20.26	PEAK
3	11770.00	43.02	6.75	49.77	74.00	-24.23	PEAK
4	17655.00	44.21	6.85	51.06	68.20	-17.14	PEAK

Test Site:	96602 - WG	Standard:	Part 15.407
Test Mode:	Colocation		
Polarization:	Vertical		
Remark:	5.9G+BT		



ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
1	4804.00	40.85	1.35	42.20	74.00	-31.80	PEAK
2	7206.00	40.77	6.81	47.58	68.20	-20.62	PEAK
3	11770.00	39.93	6.75	46.68	74.00	-27.32	PEAK
4	17655.00	44.62	6.85	51.47	68.20	-16.73	PEAK

---END---