



MEASUREMENT REPORT

FCC ID : KA2G403CA2
Applicant : D-Link Corporation
Application Type : Certification
Product : 4G LTE N300 Wi-Fi Router
Model No. : G403C, G403C/x, G403C/xx, G403C/xxx (x can be 0-9, A-Z)
Brand Name : D-Link
FCC Classification : Digital Transmission System (DTS)
FCC Rule Part(s) : Part15 Subpart C (Section 15.247)
Received Date : October 4, 2024
Test Date : December 5, 2024~ December 12, 2024

Tested By : *Kaunaz Lee*
(Kaunaz Lee)

Reviewed By : *Paddy Chen*
(Paddy Chen)

Approved By : *Chenz Ker*
(Chenz Ker)



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2410TWL802-U2	1.0	Original Report	2024-12-24	

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General Information

Applicant	D-Link Corporation
Applicant Address	14420 Myford Road Suite 100 Irvine California United States 92606
Manufacturer	D-Link Corporation
Manufacturer Address	14420 Myford Road Suite 100 Irvine California United States 92606
Test Site	MRT Technology (Taiwan) Co., Ltd
Test Site Address	No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)
MRT FCC Registration No.	291082
FCC Rule Part(s)	Part 15.247
Test Device Serial No.	#1-1 ☐ Production ☒ Pre-Production ☐ Engineering

Test Facility / Accreditations

1. MRT facility is a FCC registered (Reg. No. 291082) test facility with the site description report on file and is designated by the FCC as an Accredited Test Firm.
2. MRT facility is an IC registered (MRT Reg. No. 21723) test laboratory with the site description on file at Industry Canada.
3. MRT Lab is accredited to ISO 17025 by the Taiwan Accreditation Foundation (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC (Designation Number: TW3261), Industry Canada, EU and TELEC Rules.

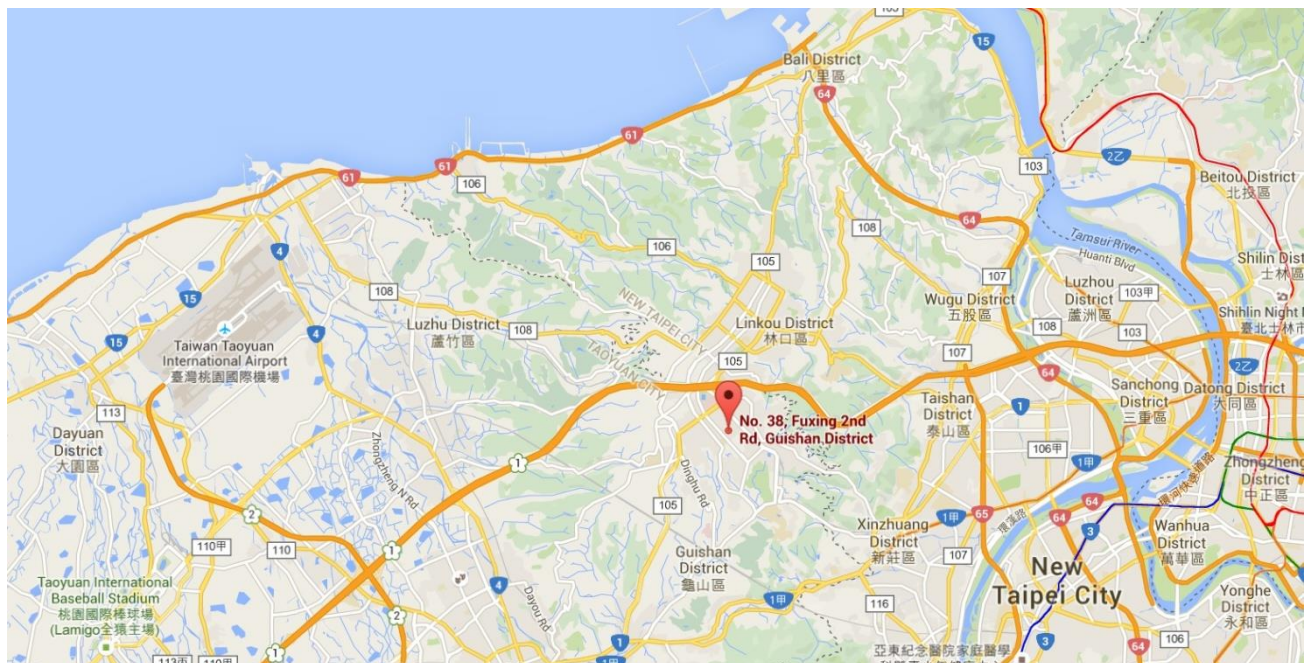
1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada and Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taoyuan City. These measurement tests were conducted at the MRT Technology (Taiwan) Co., Ltd. Facility located at No.38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C).



2. PRODUCT INFORMATION

2.1. Feature of Equipment under Test

Product Name	4G LTE N300 Wi-Fi Router
Brand Name	D-Link
Model Number	G403C, G403C/x, G403C/xx, G403C/xxx (x can be 0-9, A-Z)
Wi-Fi Specification:	802.11b/g/n
Accessory	
Power Adapter	Brand: YOUNGHOPE Model: YHSW-120100UA Input: AC 100-240V~50/60Hz,0.5A MAX Output: 12V=1000mA DC Cable Out Non-Shielding, 1.2m

Note:

- 1.Model Difference: The difference of models only for marketing different, the other hardware was the same. (declared by the manufacturer)
- 2.The test was performed base on G403C.

2.2. Product Specification Subjective to this Report

Frequency Range:	802.11b/g/n-HT20: 2412 ~ 2462MHz 802.11n-HT40: 2422 ~ 2452MHz
Channel Number:	802.11b/g/n-HT20: 11 802.11n-HT40: 7
Type of Modulation:	802.11b: DSSS 802.11g/n: OFDM
Data Rate:	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps

Note: For other features of this EUT, test report will be issued separately.

2.3. Working Frequencies for this report

802.11b/g/n-HT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz	--	--

802.11n-HT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz
06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	--	--	--	--

2.4. Description of Available Antennas

Antenna Type	Frequency Band (MHz)	Tx Paths	Number of spatial streams	Max Antenna Gain (dBi)	Beamforming Directional Gain(dBi)	CDD Directional Gain (dBi)	
						For Power	For PSD
Wi-Fi Antenna							
Dipole	2412 ~ 2462	2	1	5.98	8.99	5.98	8.99

Remark:

- The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log (N_{ANT} / N_{SS})$ dB;

- For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB for $N_{ANT} \leq 4$;

- All messages of antenna were declared by manufacturer.

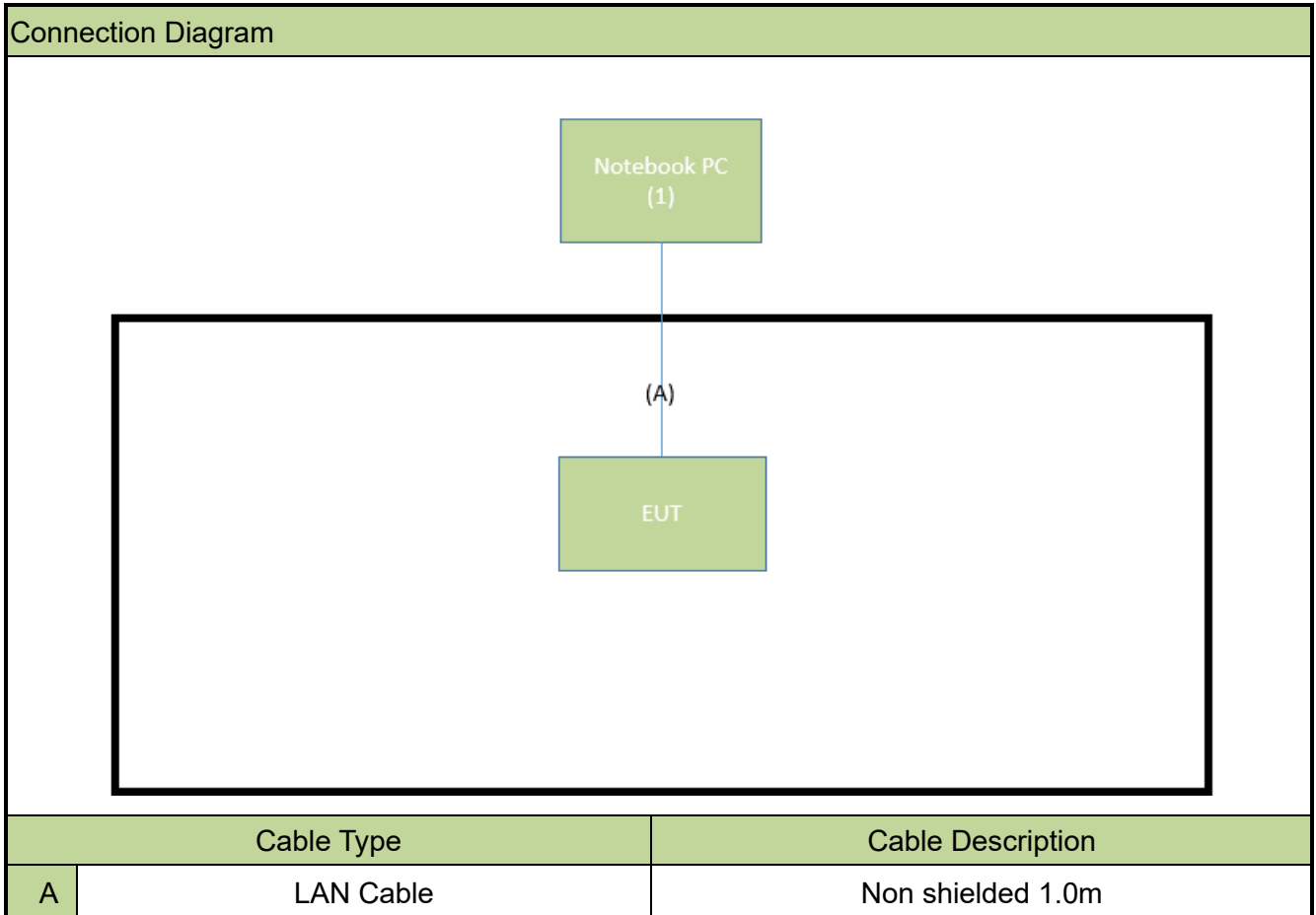
Test Mode	T _x Paths	CDD Mode	Beamforming Mode
802.11b/g/n (DTS)	2	√	X

2.5. Test Mode

CDD Mode
Mode 1: Transmit by 802.11b (1Mbps)
Mode 2: Transmit by 802.11g (6Mbps)
Mode 3: Transmit by 802.11n-HT20 (MCS0) (CDD mode)
Mode 4: Transmit by 802.11n-HT40 (MCS0) (CDD mode)
Remark: 1. For Radiated emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.6. Configuration of Test System

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.



2.7. Test System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	Lenovo	T450	N/A	Non-shielded, 0.8m

2.8. Description of Test Software

The test utility software used during testing was “Tera Term”, the version is ver4.98.

Note: Final power setting please refer to operational description.

2.9. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15.247
- KDB 662911 D01v02r01
- ANSI C63.10-2013

2.10. Duty Cycle

2.4GHz WLAN (DTS) operation is possible in 20MHz and 40MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Test Mode	Duty Cycle
802.11b	98.71%
802.11g	89.91%
802.11n-HT20	95.07%
802.11n-HT40	88.21%



2.11. Test Configuration

The device was tested per the guidance of ANSI C63.10-2013. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.12. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.13. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase.

However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

3. DESCRIPTION of TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance was used in the measurement.

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50 Ω /50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst-case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antenna of the device is **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Two-Line V-Network	R&S	ENV216	MRTTWA00019	1 year	2025/3/5
Two-Line V-Network	R&S	ENV216	MRTTWA00020	1 year	2025/4/21
EMI Test Receiver	R&S	ESR3	MRTTWA00045	1 year	2025/5/14

Radiated Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	MRTTWA00002	1 year	2025/5/7
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00086	1 year	2025/11/5
Broadband Hornantenna	SCHWARZBECK	BBHA 9120D	MRTTWA00003	1 year	2025/2/28
Broadband Preamplifier	SCHWARZBECK	BBV 9718	MRTTWA00005	1 year	2025/2/28
Breitband Hornantenna	SCHWARZBECK	BBHA 9170	MRTTWA00004	1 year	2025/3/26
Broadband Amplifier	SCHWARZBECK	BBV 9721	MRTTWA00006	1 year	2025/3/21
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2025/3/5
Signal Analyzer	R&S	FSV40	MRTTWA00007	1 year	2025/3/14
Antenna Cable	HUBERSUHNER	SF106	MRTTWE00010	1 year	2025/6/14

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
X-Series USB Peak and Average Power Sensor	KEYSIGHT	U2021XA	MRTTWA00014	1 year	2025/4/16
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2025/9/24
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2025/8/12
Attenuator	WTI	218FS-20	MRTTWE00026	1 year	2025/10/31
Attenuator	WTI	218FS-10	MRTTWE00027	1 year	2025/6/13
Attenuator	WTI	218FS-06	MRTTWE00028	1 year	2025/6/13

Software	Version	Function
e3	9.160520a	EMI Test Software

6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 150kHz~30MHz: $\pm 2.53\text{dB}$
Radiated Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 9kHz ~ 1GHz: $\pm 4.25\text{dB}$ 1GHz ~ 40GHz: $\pm 4.45\text{dB}$
Conducted Power (Carrier Power / Power Density)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 0.84\text{dB}$
Conducted Spurious Emission
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 2.65\text{ dB}$
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 3.3\%$
Temp. / Humidity
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 0.82^\circ\text{C} / \pm 3\%$

7. TEST RESULT

7.1. Summary

FCC Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	6dB Bandwidth	$\geq 500\text{kHz}$	Conducted	Pass	Section 7.2
15.247(b)(3)	Output Power	$\leq 30\text{dBm}$		Pass	Section 7.3
15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$		Pass	Section 7.4
15.247(d)	Band Edge / Out-of-Band Emissions	$\geq 30\text{dBc}$ (Average)		Pass	Section 7.5
15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Radiated	Pass	Section 7.6 & 7.7
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Pass	Section 7.8

Notes:

- 1) Determining compliance is based on the test results met the regulation limits or requirements declared by clients, and the test results don't take into account the value of measurement uncertainty.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) Output power test was verified over all data rates of each mode (data refers to operational description), and then choose the maximum power output (low data rate) for final test of each channel.
- 4) For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.

7.2. 6dB Bandwidth Measurement

7.2.1. Test Limit

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

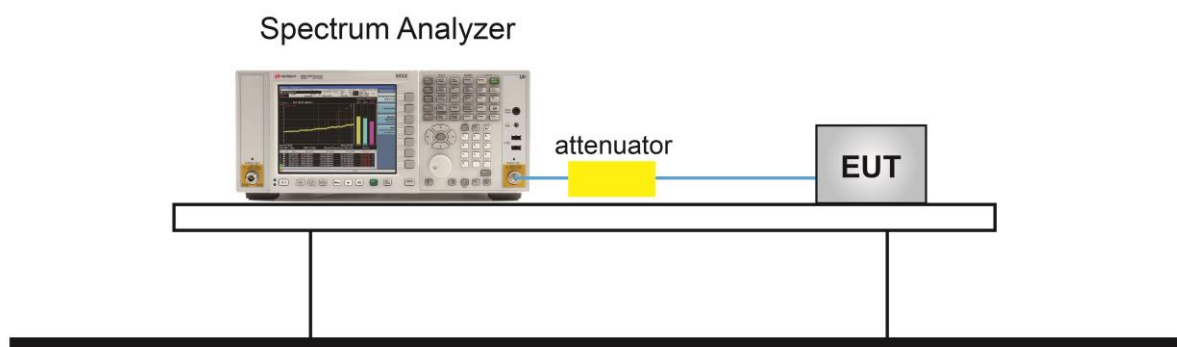
7.2.2. Test Procedure used

ANSI C63.10 - 2013 Section 11.8

7.2.3. Test Setting

1. The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 6$. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. Set RBW = 100 kHz
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace was allowed to stabilize

7.2.4. Test Setup



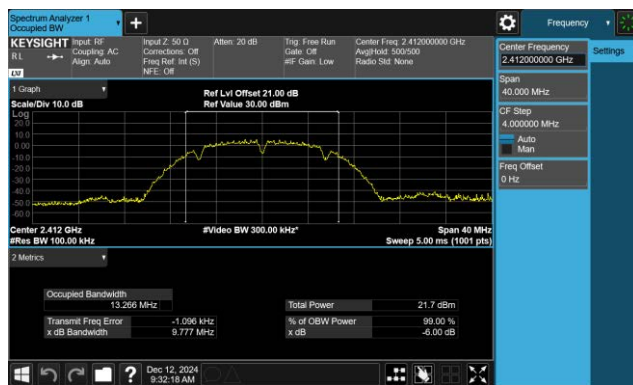
7.2.5. Test Result

Product	4G LTE N300 Wi-Fi Router	Temperature	25°C
Test Engineer	Fran	Relative Humidity	54%
Test Site	SR6	Test Date	2024/12/12

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 0						
802.11b	1Mbps	01	2412	9.777	≥ 0.5	Pass
802.11b	1Mbps	06	2437	9.610	≥ 0.5	Pass
802.11b	1Mbps	11	2462	10.01	≥ 0.5	Pass
802.11g	6Mbps	01	2412	15.00	≥ 0.5	Pass
802.11g	6Mbps	06	2437	13.86	≥ 0.5	Pass
802.11g	6Mbps	11	2462	15.10	≥ 0.5	Pass
802.11n-HT20	MCS0	01	2412	15.03	≥ 0.5	Pass
802.11n-HT20	MCS0	06	2437	11.36	≥ 0.5	Pass
802.11n-HT20	MCS0	11	2462	15.05	≥ 0.5	Pass
802.11n-HT40	MCS0	03	2422	26.25	≥ 0.5	Pass
802.11n-HT40	MCS0	06	2437	21.29	≥ 0.5	Pass
802.11n-HT40	MCS0	09	2452	22.63	≥ 0.5	Pass

802.11b 6dB Bandwidth - Ant 0

Channel 01 (2412MHz)



Channel 06 (2437MHz)

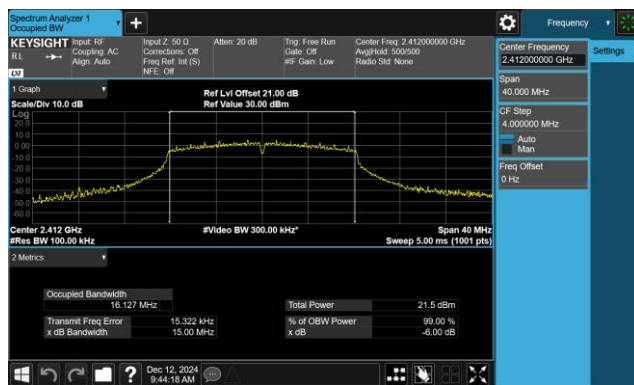


Channel 11 (2462MHz)

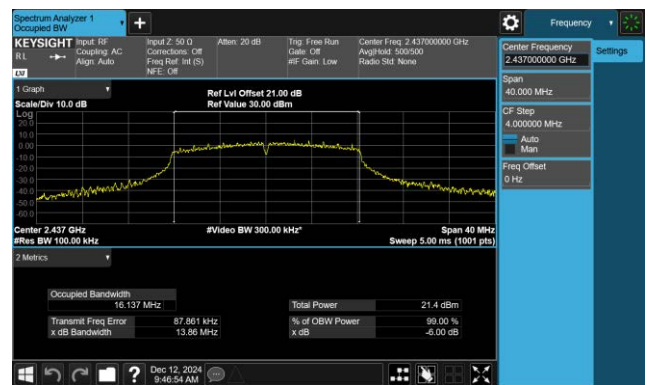


802.11g 6dB Bandwidth - Ant 0

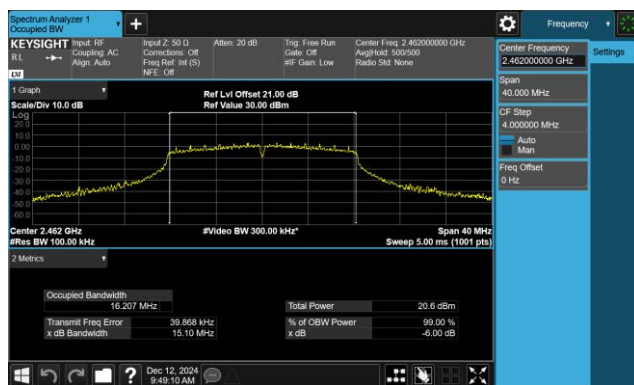
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



802.11n-HT20 6dB Bandwidth - Ant 0

Channel 01 (2412MHz)



Channel 06 (2437MHz)

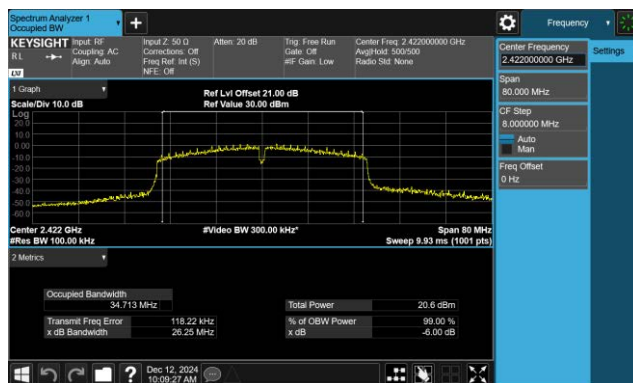


Channel 11 (2462MHz)



802.11n-HT40 6dB Bandwidth - Ant 0

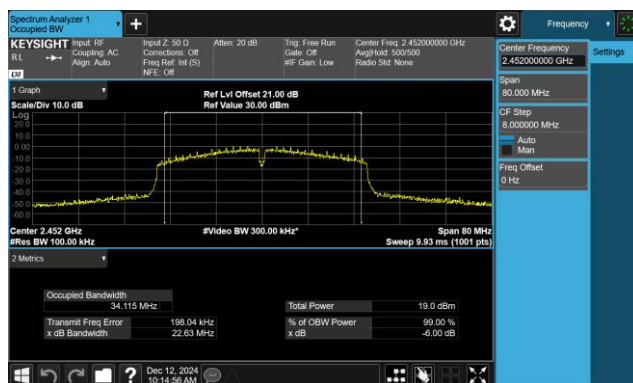
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



7.3. Output Power Measurement

7.3.1. Test Limit

The maximum output power shall be less 1 Watt (30dBm).

The conducted output power limit specified in paragraph FCC Part 15.247(b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs FCC Part 15.247(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.3.2. Test Procedure Used

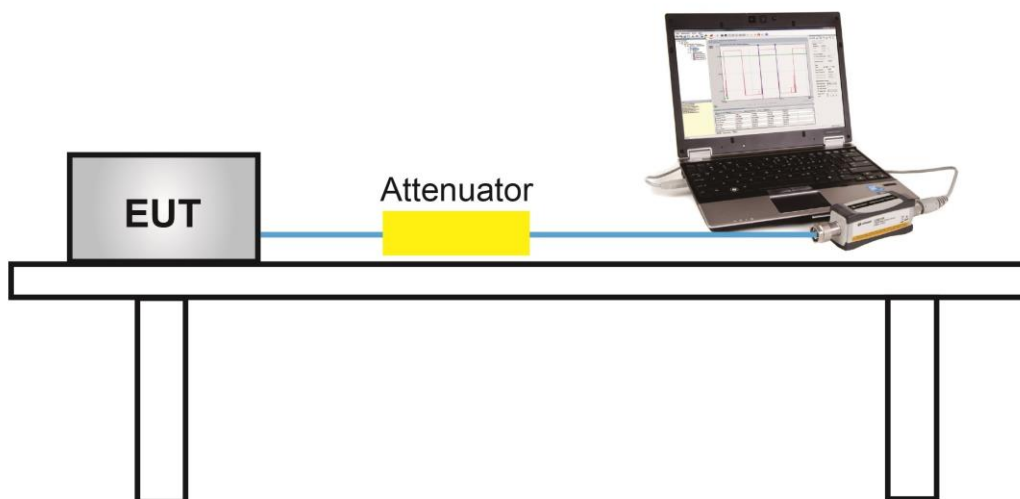
ANSI C63.10 - 2013 Section 11.9.2.3.2

7.3.3. Test Setting

Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

7.3.4. Test Setup



7.3.5. Test Result

Product	4G LTE N300 Wi-Fi Router	Temperature	25°C
Test Engineer	Fran	Relative Humidity	54%
Test Site	SR6	Test Date	2024/12/12

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	Limit (dBm)	Result
CDD Mode								
802.11b	1Mbps	01	2412	16.41	N/A	N/A	≤ 30.00	Pass
802.11b	1Mbps	06	2437	18.11	N/A	N/A	≤ 30.00	Pass
802.11b	1Mbps	11	2462	19.40	N/A	N/A	≤ 30.00	Pass
802.11g	6Mbps	01	2412	16.38	N/A	N/A	≤ 30.00	Pass
802.11g	6Mbps	06	2437	16.18	N/A	N/A	≤ 30.00	Pass
802.11g	6Mbps	11	2462	15.14	N/A	N/A	≤ 30.00	Pass
802.11n-HT20	MCS0	01	2412	15.47	14.87	18.19	≤ 30.00	Pass
802.11n-HT20	MCS0	06	2437	16.25	14.26	18.38	≤ 30.00	Pass
802.11n-HT20	MCS0	08	2447	14.20	11.38	16.03	≤ 30.00	Pass
802.11n-HT20	MCS0	09	2452	12.29	10.08	14.33	≤ 30.00	Pass
802.11n-HT20	MCS0	10	2457	11.54	9.12	13.51	≤ 30.00	Pass
802.11n-HT20	MCS0	11	2462	10.23	8.28	12.37	≤ 30.00	Pass
802.11n-HT40	MCS0	03	2422	15.62	14.99	18.33	≤ 30.00	Pass
802.11n-HT40	MCS0	06	2437	16.67	14.46	18.71	≤ 30.00	Pass
802.11n-HT40	MCS0	09	2452	13.91	10.61	15.58	≤ 30.00	Pass

Note: Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)}\}$

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	Limit (dBm)	Result
CDD Mode								
802.11b	1Mbps	01	2412	19.94	N/A	N/A	≤ 30.00	Pass
802.11b	1Mbps	06	2437	21.75	N/A	N/A	≤ 30.00	Pass
802.11b	1Mbps	11	2462	22.84	N/A	N/A	≤ 30.00	Pass
802.11g	6Mbps	01	2412	26.32	N/A	N/A	≤ 30.00	Pass
802.11g	6Mbps	06	2437	25.37	N/A	N/A	≤ 30.00	Pass
802.11g	6Mbps	11	2462	24.56	N/A	N/A	≤ 30.00	Pass
802.11n-HT20	MCS0	01	2412	24.81	24.40	27.62	≤ 30.00	Pass
802.11n-HT20	MCS0	06	2437	25.20	22.74	27.15	≤ 30.00	Pass
802.11n-HT20	MCS0	08	2447	23.50	20.99	25.43	≤ 30.00	Pass
802.11n-HT20	MCS0	09	2452	21.31	19.72	23.60	≤ 30.00	Pass
802.11n-HT20	MCS0	10	2457	20.58	18.58	22.70	≤ 30.00	Pass
802.11n-HT20	MCS0	11	2462	19.79	18.77	22.32	≤ 30.00	Pass
802.11n-HT40	MCS0	03	2422	26.12	24.47	28.38	≤ 30.00	Pass
802.11n-HT40	MCS0	06	2437	26.05	24.39	28.31	≤ 30.00	Pass
802.11n-HT40	MCS0	09	2452	24.42	21.20	26.11	≤ 30.00	Pass

Note: Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)}\}$

7.4. Power Spectral Density Measurement

7.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

The same method of determining the conducted output power shall be used to determine the power spectral density.

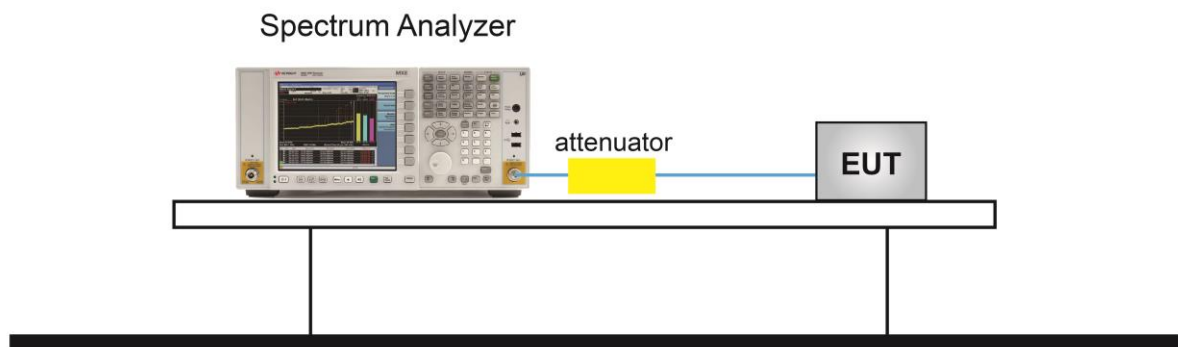
7.4.2. Test Procedure Used

ANSI C63.10 - 2013 Section 11.10.5

7.4.3. Test Setting

1. Measure the duty cycle (x) of the transmitter output signal.
2. Set instrument center frequency to DTS channel center frequency.
3. Set span to at least 1.5 times the OBW.
4. RBW = 10 kHz.
5. VBW = 30 kHz.
6. Detector = RMS.
7. Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span/RBW}$.
8. Sweep time = auto couple.
9. Don't use sweep triggering. Allow sweep to "free run".
10. Employ trace averaging (RMS) mode over a minimum of 100 traces.
11. Use the peak marker function to determine the maximum amplitude level.
12. Add $10 \log (1/x)$, where x is the duty cycle measured in step (a), to the measured PSD to compute the average PSD during the actual transmission time.

7.4.4. Test Setup



7.4.5. Test Result

Product	4G LTE N300 Wi-Fi Router	Temperature	25°C
Test Engineer	Fran	Relative Humidity	54%
Test Site	SR6	Test Date	2024/12/12

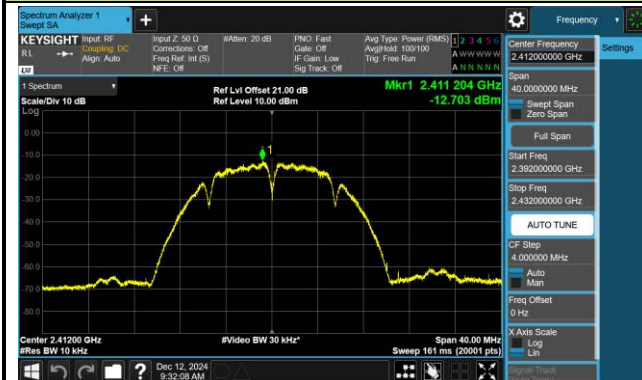
Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/ 10kHz)	Duty Cycle (%)	Ant 0 Total PSD (dBm/ 10kHz)	Limit (dBm/ 3kHz)	Result
802.11b	1Mbps	01	2412	-12.703	98.71%	-12.647	≤ 5.01	Pass
802.11b	1Mbps	06	2437	-9.775	98.71%	-9.719	≤ 5.01	Pass
802.11b	1Mbps	11	2462	-9.135	98.71%	-9.079	≤ 5.01	Pass
802.11g	6Mbps	01	2412	-12.434	89.91%	-11.972	≤ 5.01	Pass
802.11g	6Mbps	06	2437	-12.627	89.91%	-12.165	≤ 5.01	Pass
802.11g	6Mbps	11	2462	-13.422	89.91%	-12.960	≤ 5.01	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/ 10kHz)	Ant 1 PSD (dBm/ 10kHz)	Duty Cycle (%)	Total PSD (dBm/ 10kHz)	Limit (dBm/ 3kHz)	Result
802.11n-HT20	MCS0	01	2412	-12.702	-13.145	95.07%	-9.688	≤ 5.01	Pass
802.11n-HT20	MCS0	06	2437	-11.939	-14.348	95.07%	-9.749	≤ 5.01	Pass
802.11n-HT20	MCS0	11	2462	-16.742	-18.605	95.07%	-14.344	≤ 5.01	Pass
802.11n-HT40	MCS0	03	2422	-15.392	-14.176	88.21%	-11.186	≤ 5.01	Pass
802.11n-HT40	MCS0	06	2437	-13.865	-16.636	88.21%	-11.478	≤ 5.01	Pass
802.11n-HT40	MCS0	09	2452	-15.961	-19.162	88.21%	-13.718	≤ 5.01	Pass

Note 1: Total AVGPDS = $10 \cdot \log \{10^{(\text{Ant 0 AVGPDS}/10)} + 10^{(\text{Ant 1 AVGPDS}/10)}\} + 10 \cdot \log (1/\text{Duty Cycle})$.

802.11b AVGPSD - Ant 0

Channel 01 (2412MHz)



Channel 06 (2437MHz)

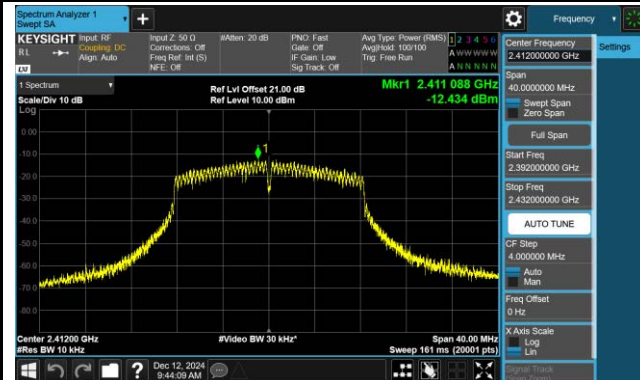


Channel 11 (2462MHz)

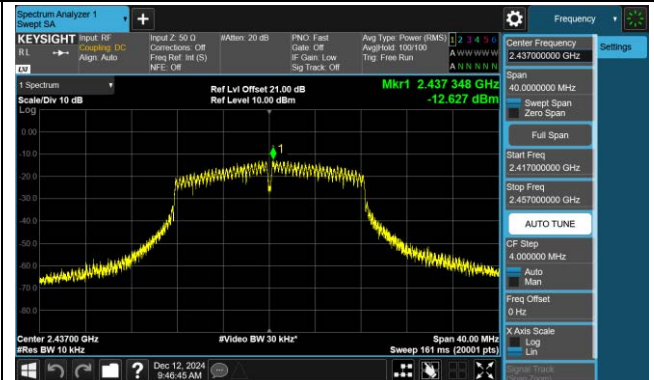


802.11g AVGPDS - Ant 0

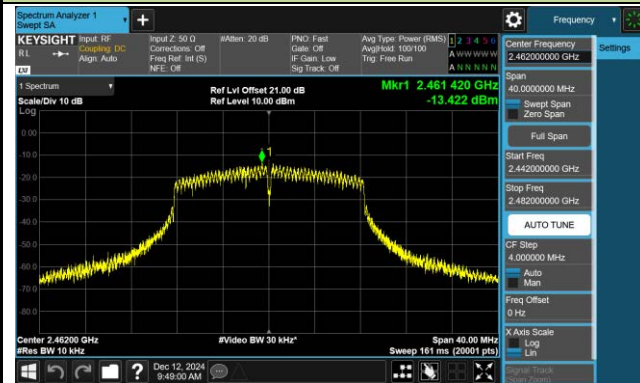
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

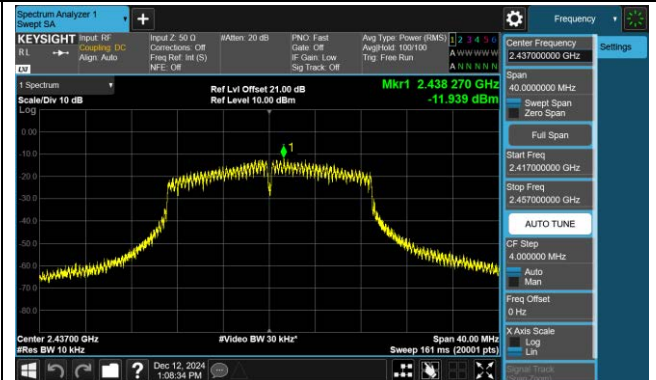


802.11n-HT20 AVGPSD - Ant 0

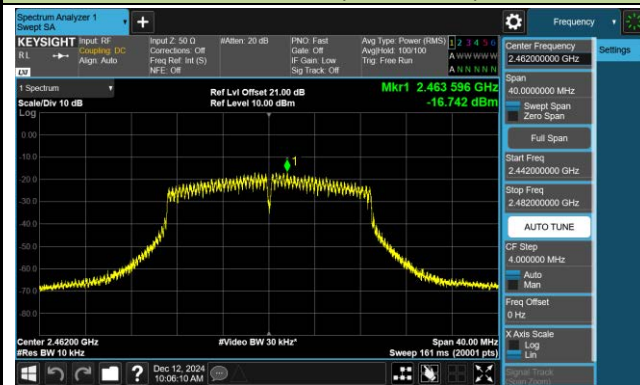
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

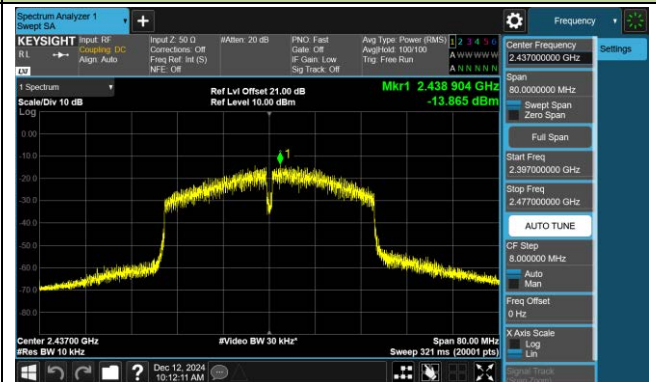


802.11n-HT40 AVGPSD - Ant 0

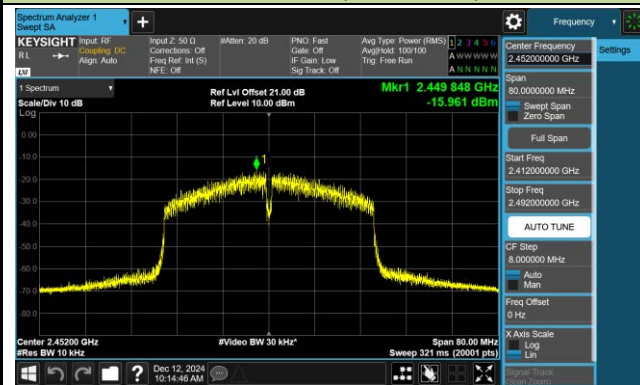
Channel 03 (2422MHz)



Channel 06 (2437MHz)

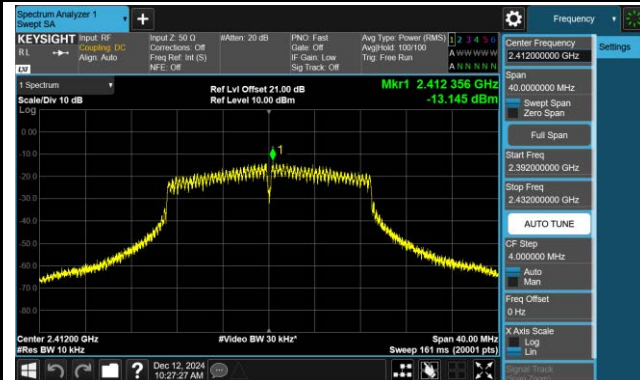


Channel 09 (2452MHz)

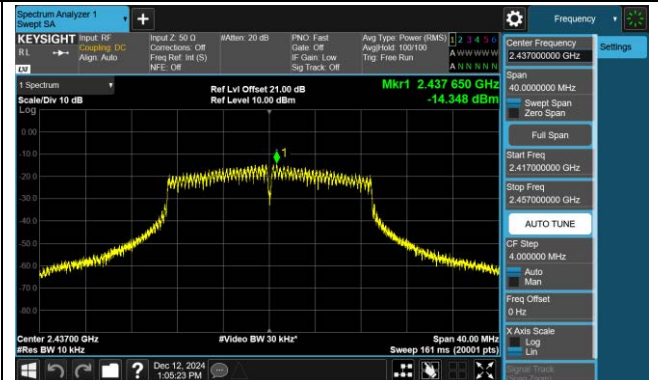


802.11n-HT20 AVGPSD - Ant 1

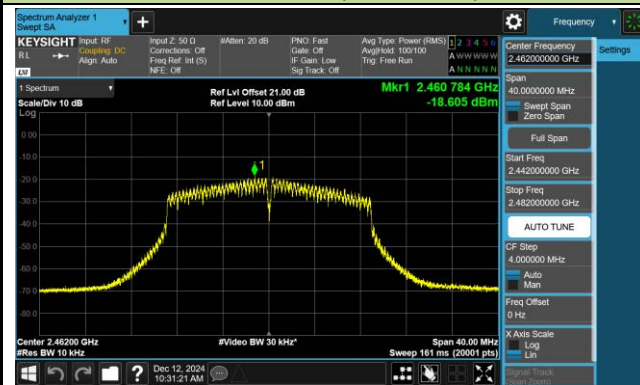
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

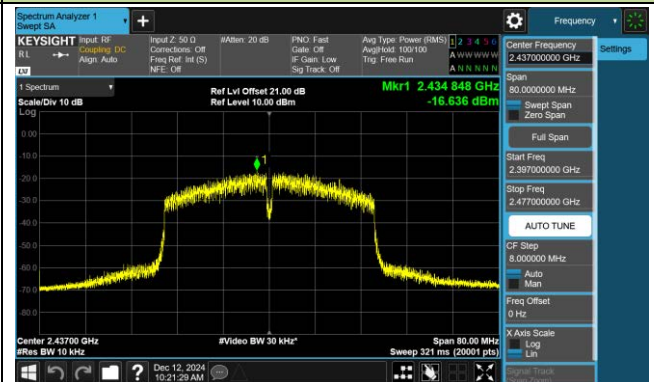


802.11n-HT40 AVGPSD - Ant 1

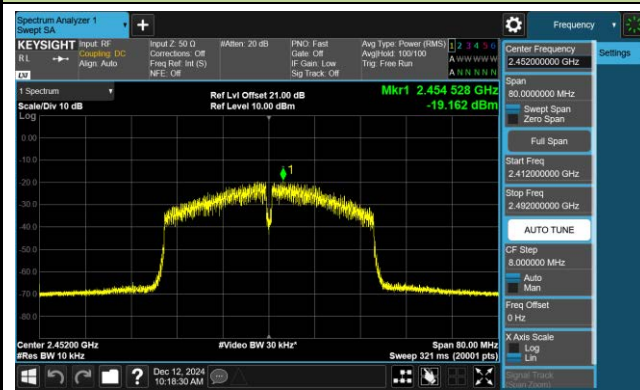
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



7.5. Conducted Band Edge and Out-of-Band Emissions

7.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

7.5.2. Test Procedure Used

ANSI C63.10 - 2013 Section 11.11

7.5.3. Test Setting

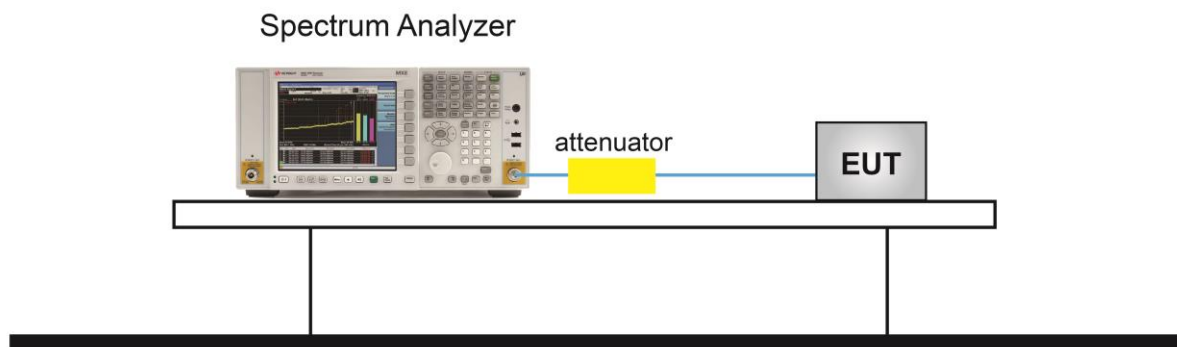
Reference level measurement

1. Set instrument center frequency to DTS channel center frequency
2. Set the span to ≥ 1.5 times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW $\geq 3 \times$ RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

Emission level measurement

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

7.5.4. Test Setup



7.5.5. Test Result

Product	4G LTE N300 Wi-Fi Router	Temperature	25°C
Test Engineer	Fran	Relative Humidity	54%
Test Site	SR6	Test Date	2024/12/12

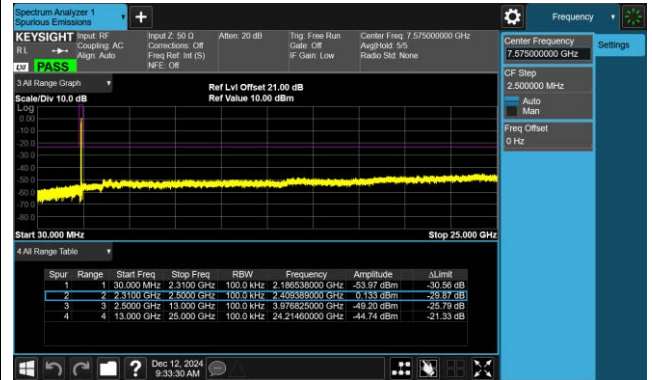
Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Limit (dBc)	Result
802.11b	1Mbps	01	2412	30	Pass
802.11b	1Mbps	06	2437	30	Pass
802.11b	1Mbps	11	2462	30	Pass
802.11g	6Mbps	01	2412	30	Pass
802.11g	6Mbps	06	2437	30	Pass
802.11g	6Mbps	11	2462	30	Pass
802.11n-HT20	MCS0	01	2412	30	Pass
802.11n-HT20	MCS0	06	2437	30	Pass
802.11n-HT20	MCS0	11	2462	30	Pass
802.11n-HT40	MCS0	03	2422	30	Pass
802.11n-HT40	MCS0	06	2437	30	Pass
802.11n-HT40	MCS0	09	2452	30	Pass

Ant 0

802.11 b CH01 (2412MHz)



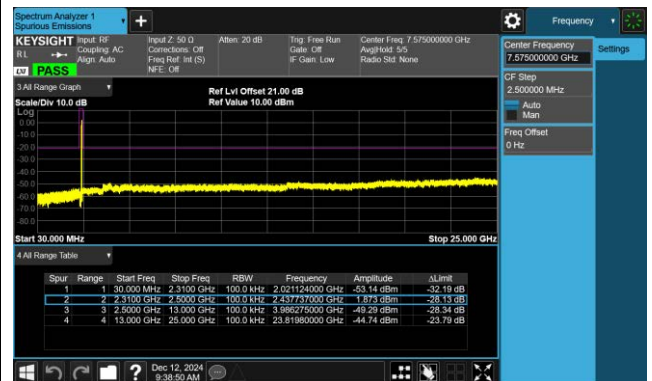
802.11 b CH01 (2412MHz)



802.11 b CH06 (2437MHz)



802.11 b CH06 (2437MHz)



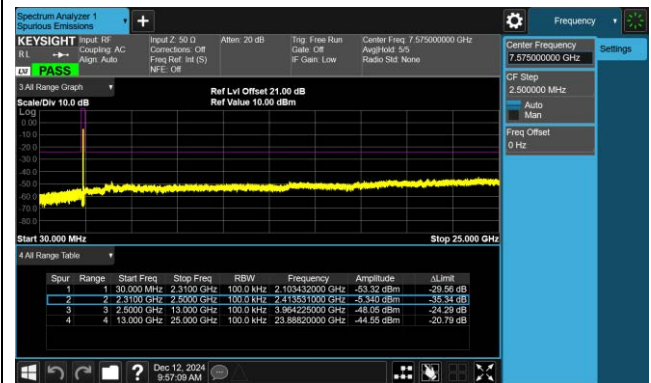
802.11 b CH11 (2462MHz)



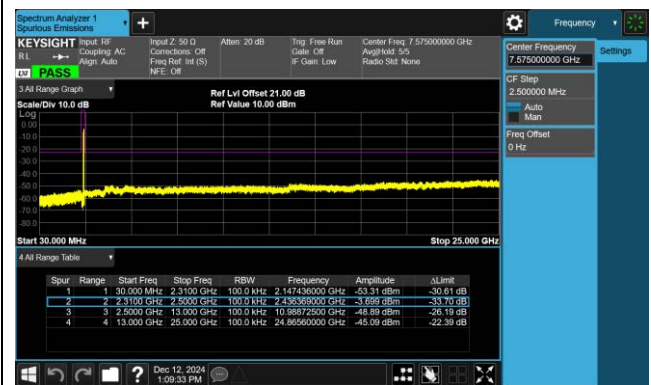
802.11 b CH11 (2462MHz)



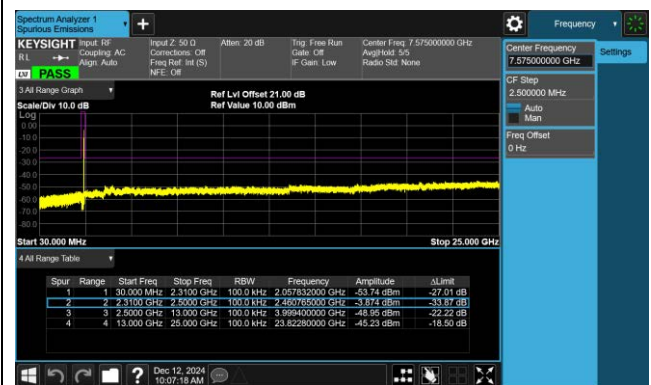
802.11 n20 CH01 (2412MHz)



802.11 n20 CH06 (2437MHz)



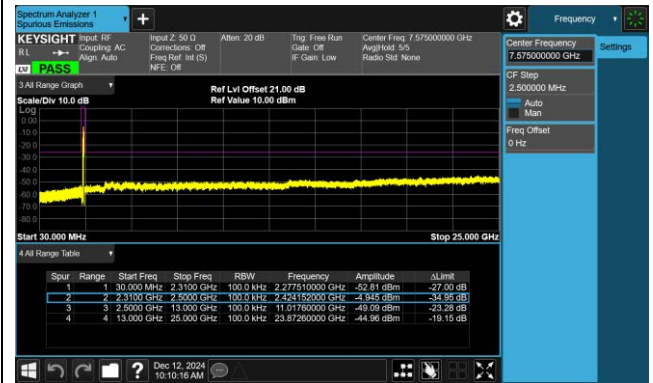
802.11 n20 CH11 (2462MHz)



802.11 n40 CH03 (2422MHz)



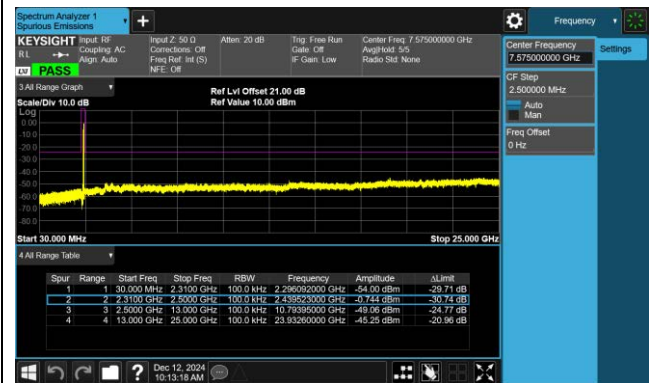
802.11 n40 CH03 (2422MHz)



802.11 n40 CH06 (2437MHz)



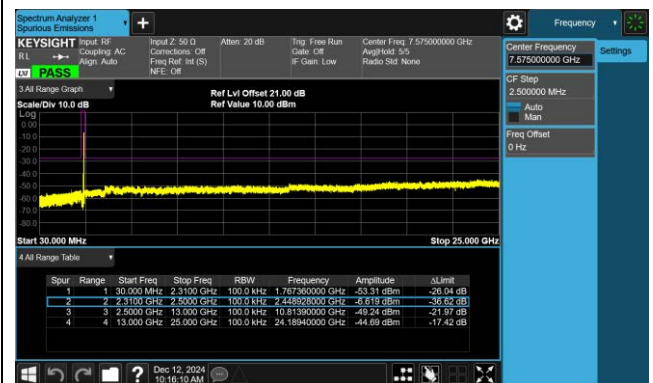
802.11 n40 CH06 (2437MHz)



802.11 n40 CH09 (2452MHz)



802.11 n40 CH09 (2452MHz)

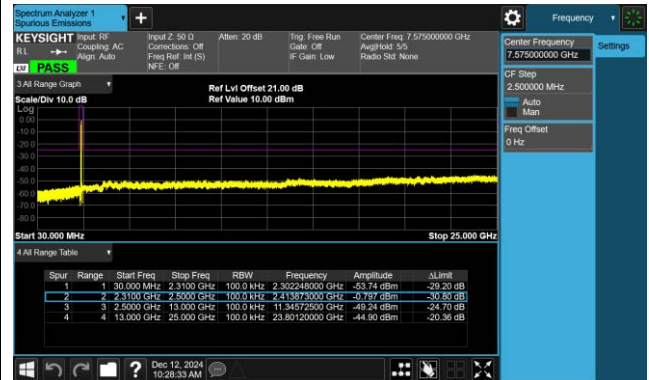


Ant 1

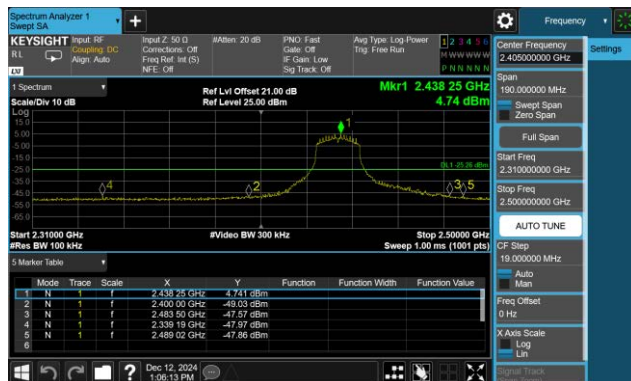
802.11 n20 CH01 (2412MHz)



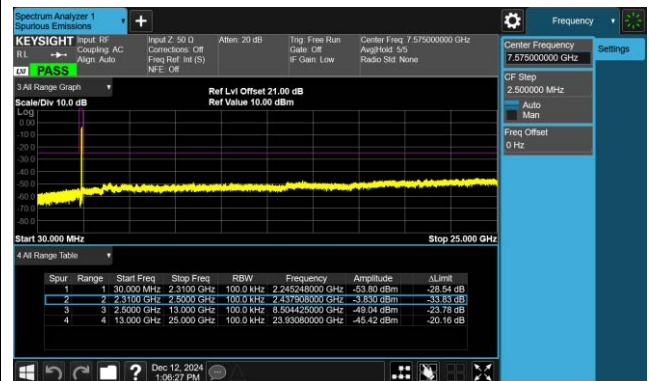
802.11 n20 CH01 (2412MHz)



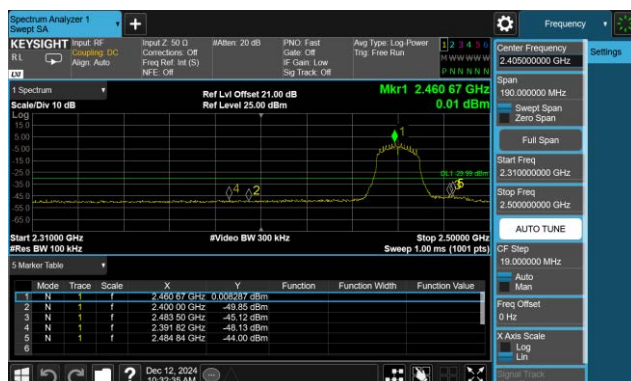
802.11 n20 CH06 (2437MHz)



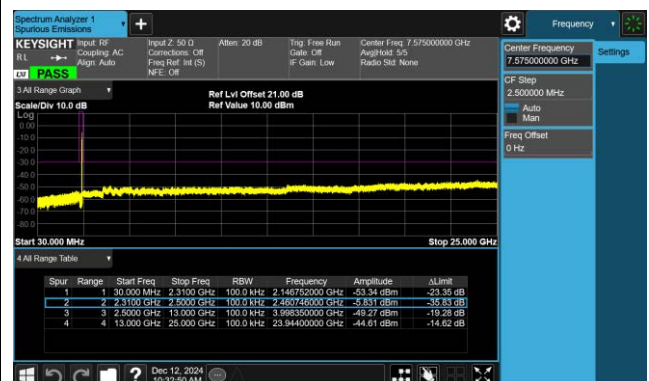
802.11 n20 CH06 (2437MHz)



802.11 n20 CH11 (2462MHz)



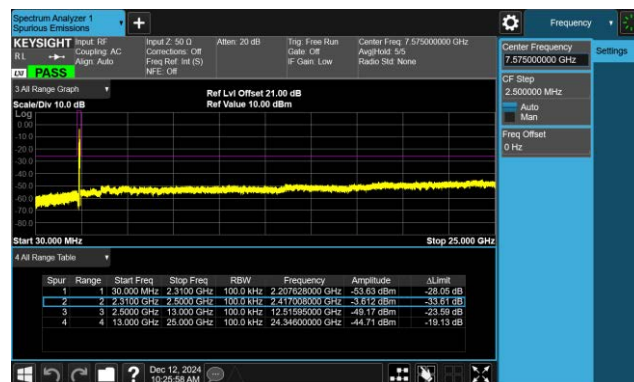
802.11 n20 CH11 (2462MHz)



802.11 n40 CH03 (2422MHz)



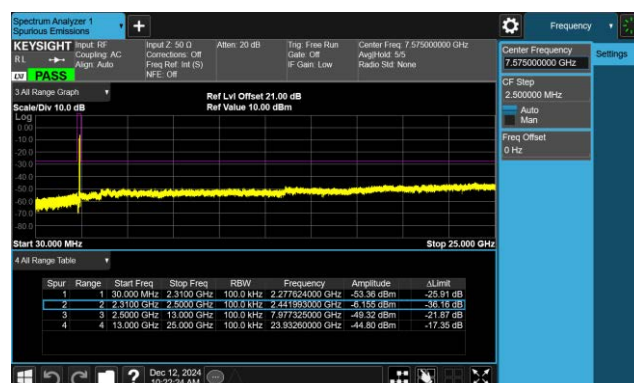
802.11 n40 CH03 (2422MHz)



802.11 n40 CH06 (2437MHz)



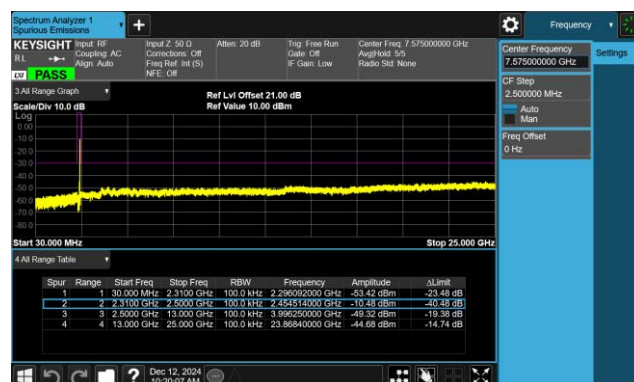
802.11 n40 CH06 (2437MHz)



802.11 n40 CH09 (2452MHz)



802.11 n40 CH09 (2452MHz)



7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [Uv/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.6.2. Test Procedure Used

ANSI C63.10 - 2013 Section 6.3 (General Requirements)

ANSI C63.10 - 2013 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 - 2013 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 - 2013 Section 6.6 (Standard test method above 1GHz)

7.6.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000MHz	1MHz

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Peak Measurements above 1GHz

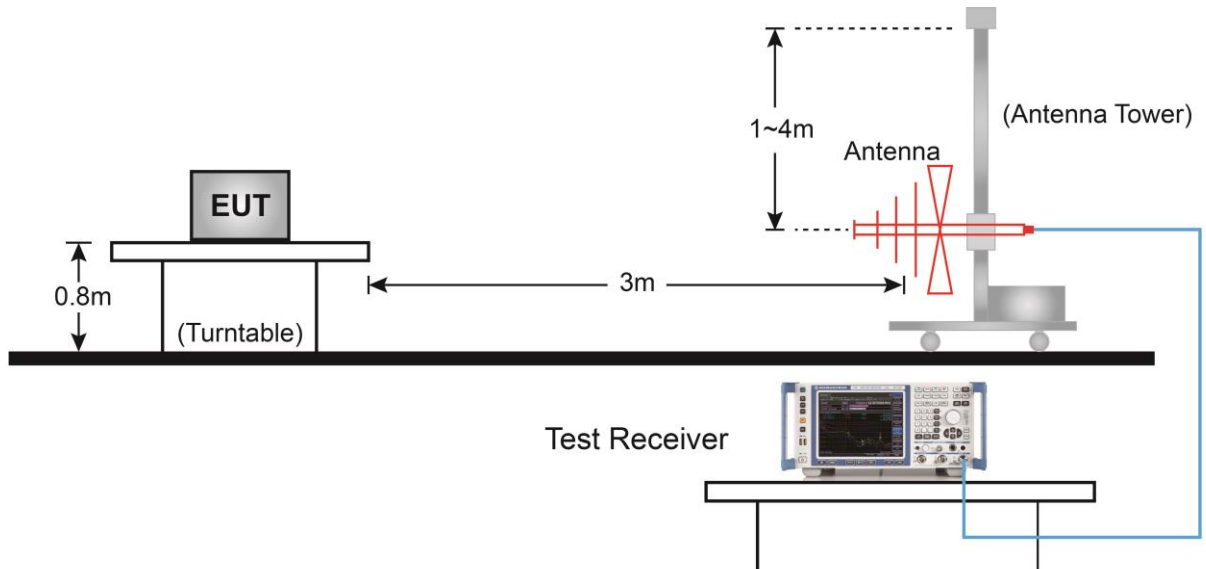
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

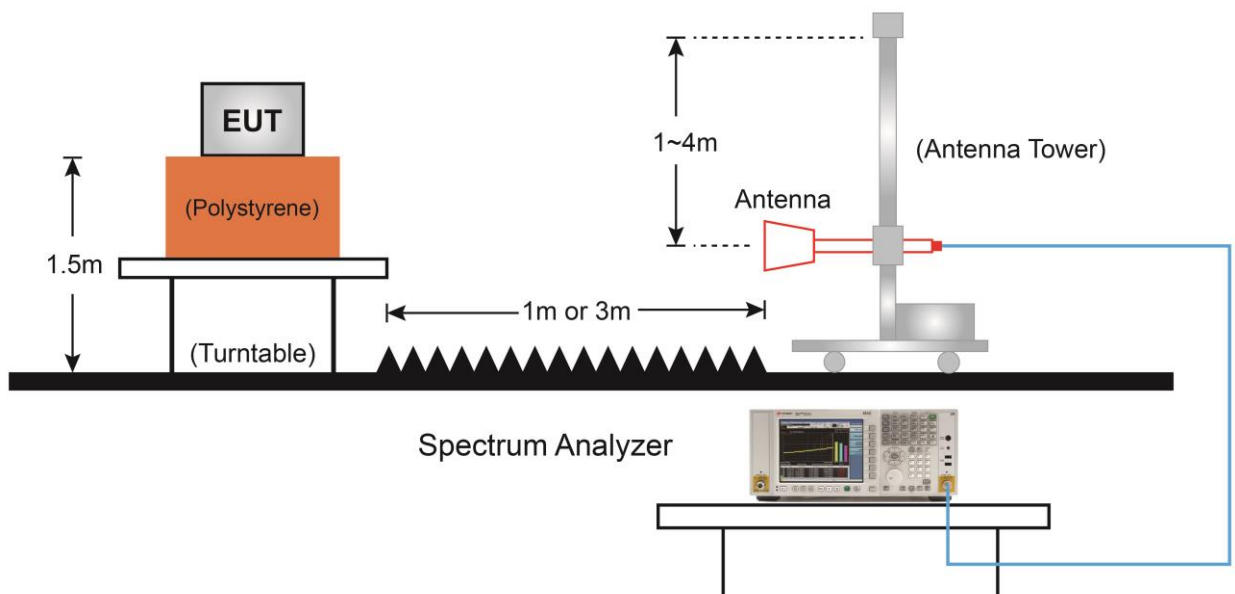
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

7.6.4. Test Setup

Below 1GHz Test Setup:

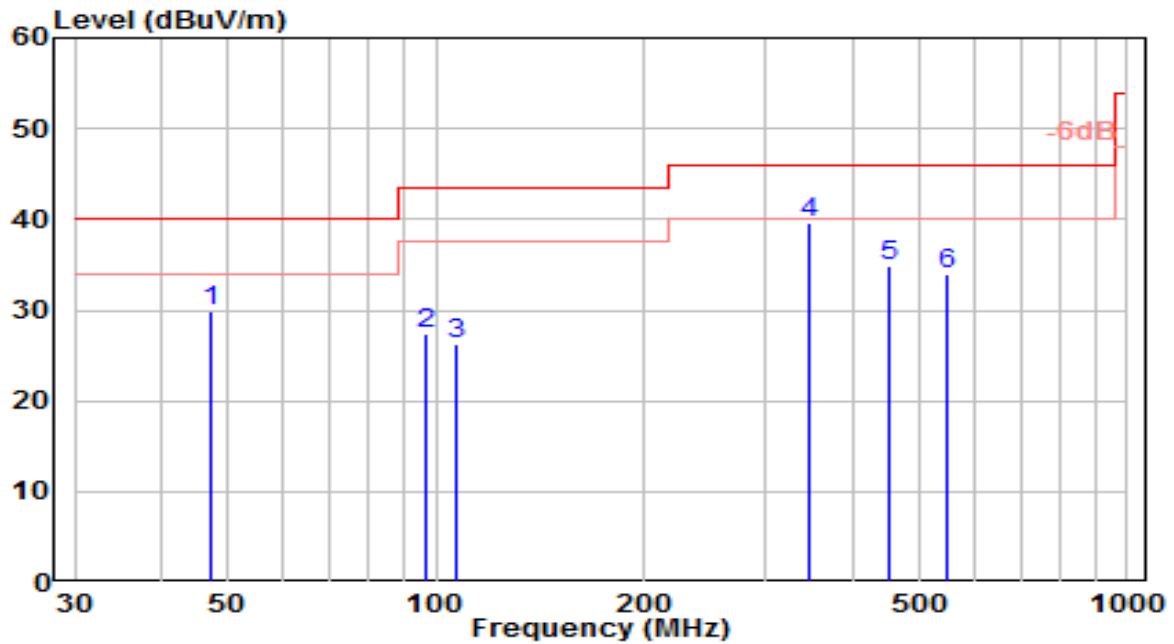


Above 1GHz Test Setup:



7.6.5. Test Result

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-11
Factor	VULB 9162	Temp. / Humidity	24°C /57%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

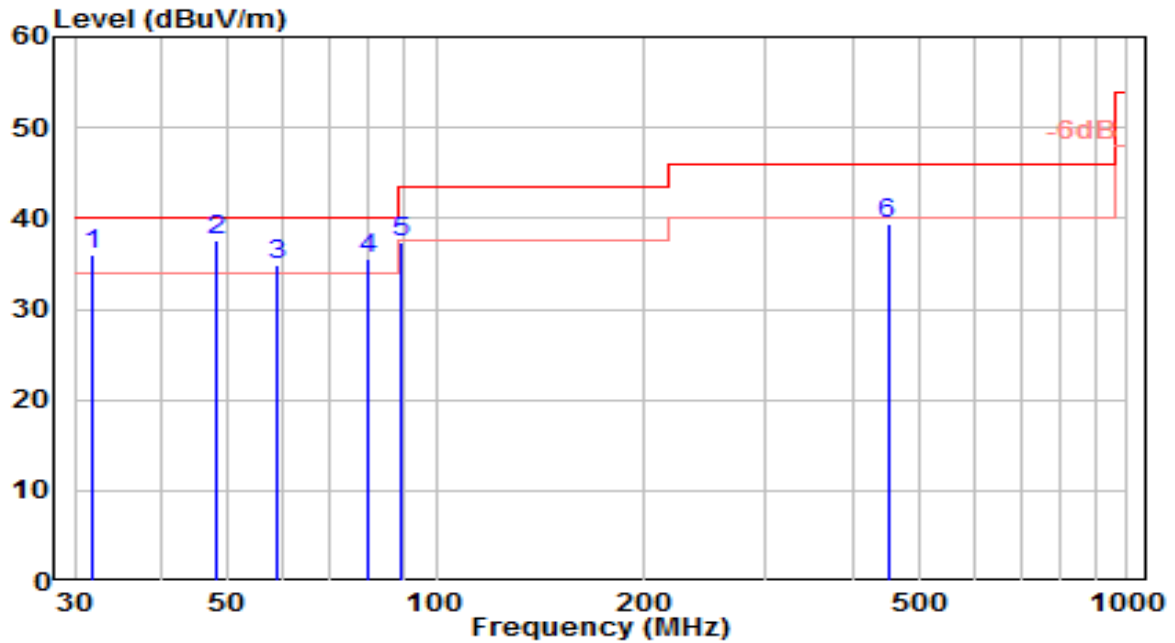


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	47.329	9.38	20.58	29.96	-10.04	40.00	200	273	QP
2	96.700	9.35	17.98	27.34	-16.16	43.50	200	0	QP
3	107.041	7.79	18.52	26.31	-17.19	43.50	200	60	QP
4	* 345.889	17.02	22.52	39.54	-6.46	46.00	150	0	QP
5	453.212	10.76	24.18	34.94	-11.06	46.00	200	158	QP
6	549.820	7.78	26.09	33.87	-12.13	46.00	200	326	QP

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-11
Factor	VULB 9162	Temp. / Humidity	24°C /57%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

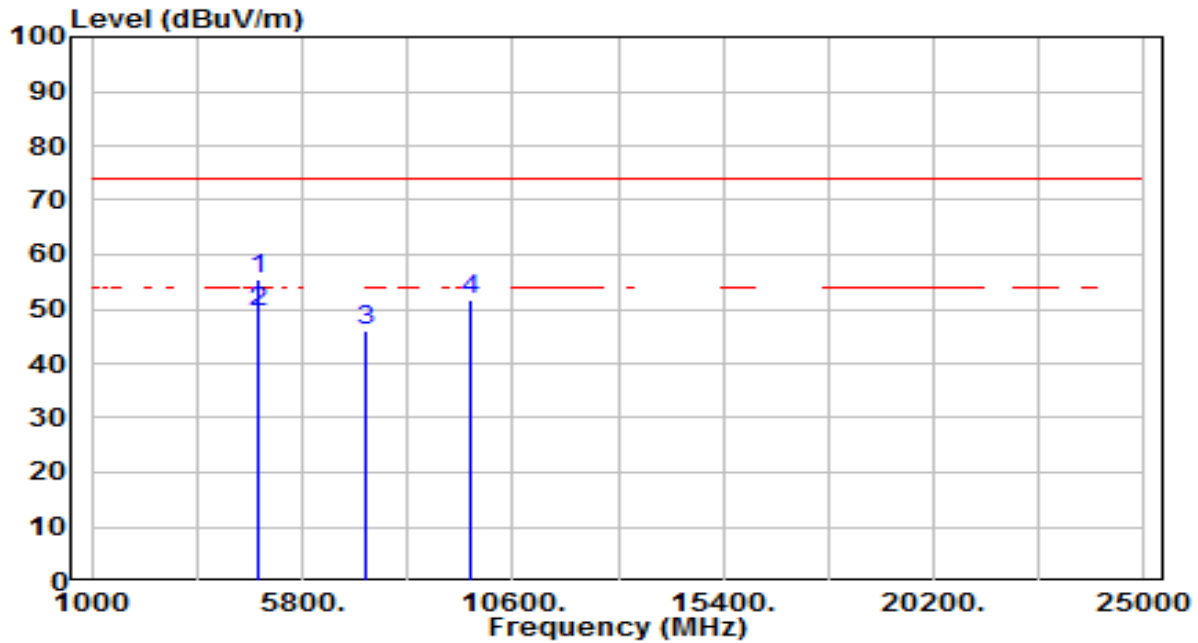


No		Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		31.765	19.07	16.88	35.95	-4.05	40.00	100	350	QP
2	*	48.157	16.95	20.57	37.52	-2.48	40.00	100	5	QP
3		58.671	15.36	19.56	34.92	-5.08	40.00	100	330	QP
4		79.957	21.74	13.91	35.65	-4.35	40.00	100	80	QP
5		88.765	20.82	16.57	37.39	-6.11	43.50	100	65	QP
6		450.414	15.39	24.11	39.50	-6.50	46.00	100	360	QP

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

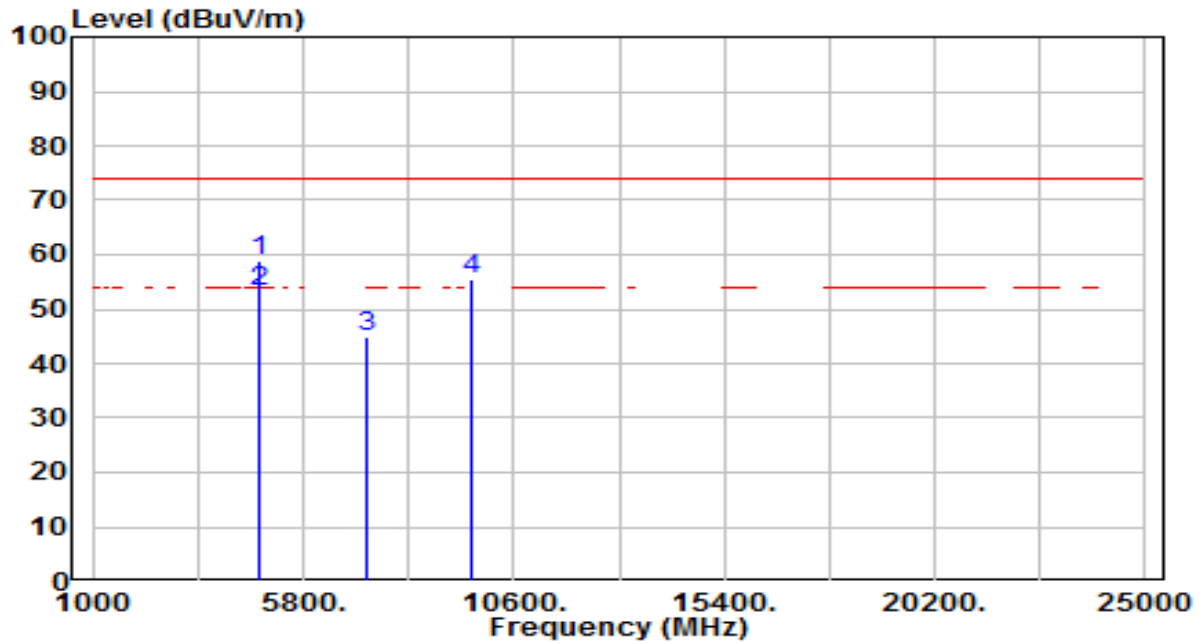


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4824.000	51.84	3.75	55.59	-18.41	74.00	300	201	Peak
2	*	4824.000	45.62	3.75	49.37	-4.63	54.00	300	201	Average
3		7236.000	34.47	11.68	46.15	-27.85	74.00	300	275	Peak
4		9648.000	36.12	15.77	51.88	-22.12	74.00	300	70	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

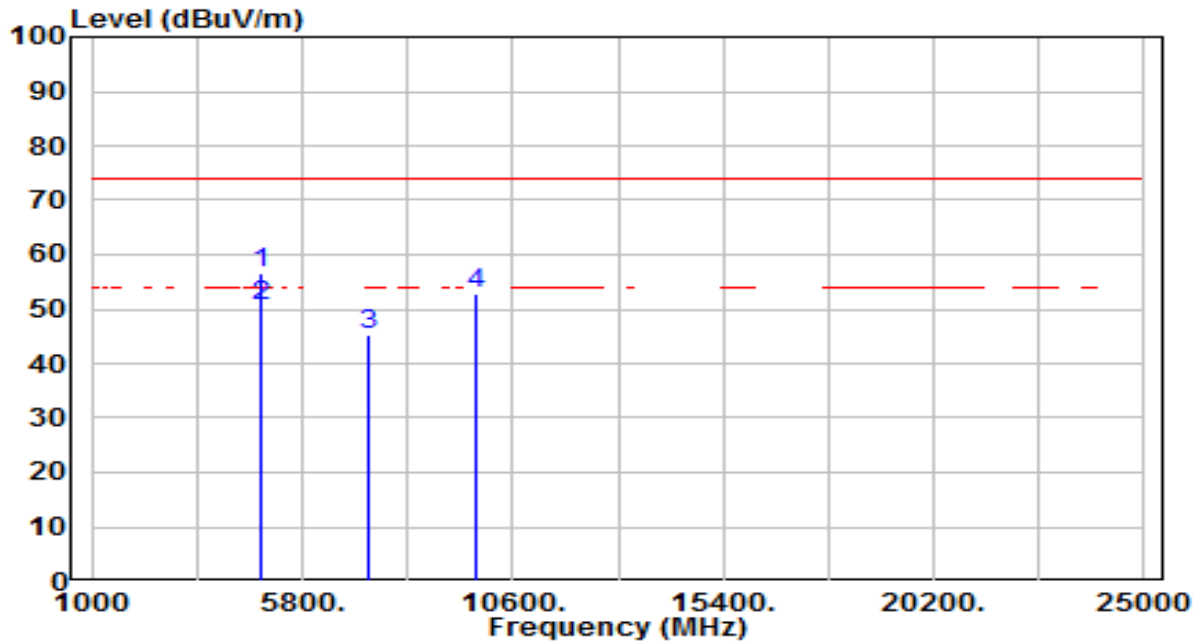


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4824.000	55.19	3.75	58.93	-15.07	74.00	300	135	Peak
2	*	4824.000	49.61	3.75	53.36	-0.64	54.00	300	135	Average
3		7236.000	33.10	11.68	44.78	-29.22	74.00	300	172	Peak
4		9648.000	39.83	15.77	55.60	-18.40	74.00	300	186	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

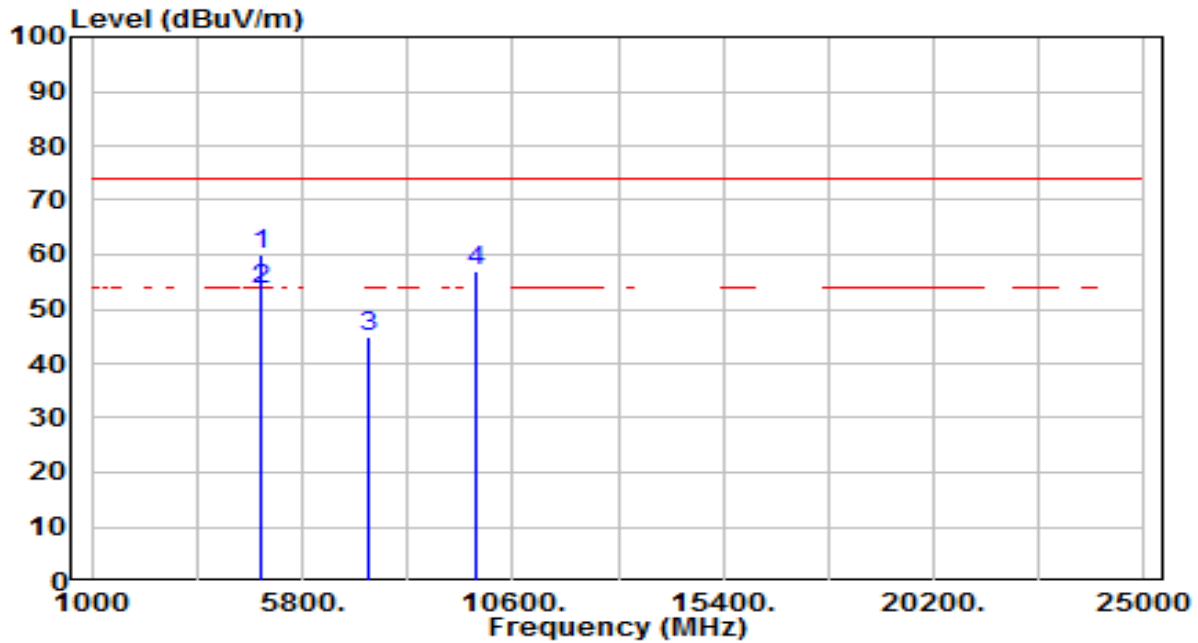


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4874.000	52.94	3.84	56.77	-17.23	74.00	300	204	Peak
2	*	4874.000	46.80	3.84	50.64	-3.36	54.00	300	204	Average
3		7311.000	33.35	11.94	45.29	-28.71	74.00	300	211	Peak
4		9748.000	36.87	15.95	52.82	-21.18	74.00	300	66	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

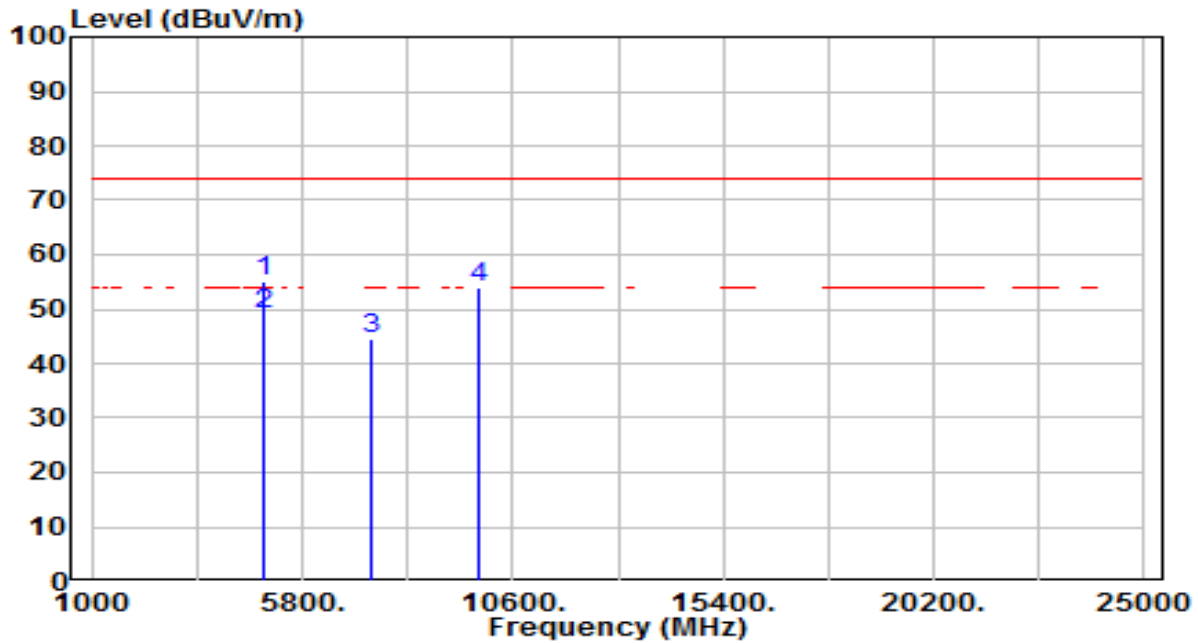


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4874.000	55.99	3.84	59.82	-14.18	74.00	300	135	Peak
2	*	4874.000	49.60	3.84	53.44	-0.56	54.00	300	135	Average
3		7311.000	32.91	11.94	44.85	-29.15	74.00	300	149	Peak
4		9748.000	41.15	15.95	57.10	-16.90	74.00	300	156	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

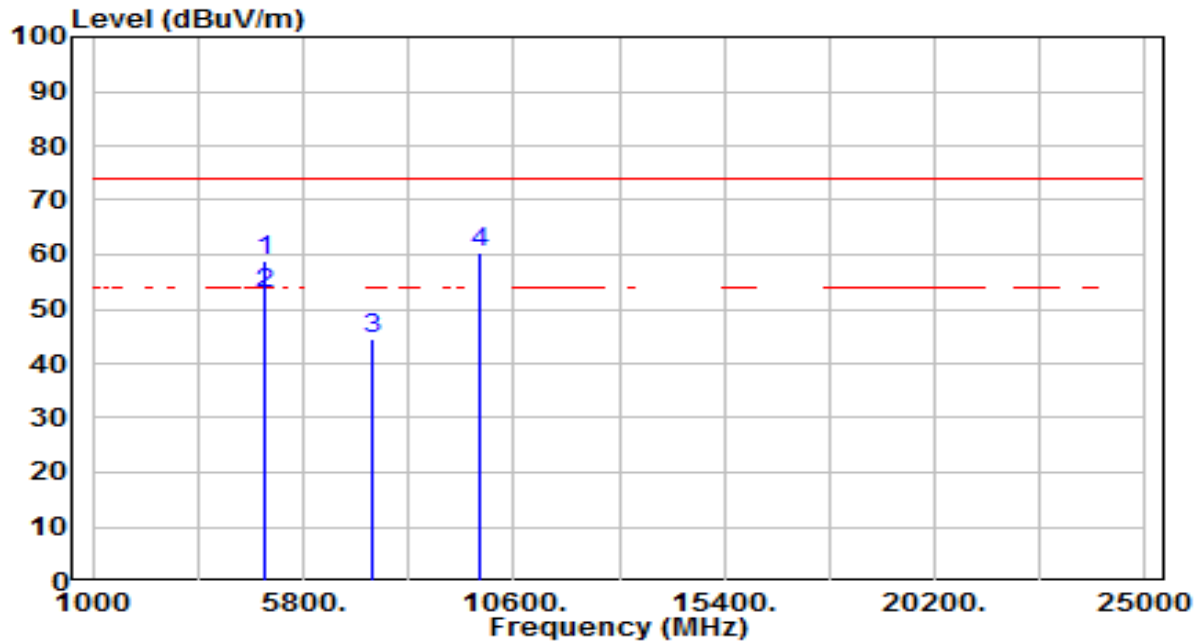


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4924.000	51.25	3.92	55.18	-18.82	74.00	300	203	Peak
2	*	4924.000	45.20	3.92	49.12	-4.88	54.00	300	203	Average
3		7386.000	32.41	12.21	44.61	-29.39	74.00	300	115	Peak
4		9848.000	37.98	16.14	54.12	-19.88	74.00	300	69	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

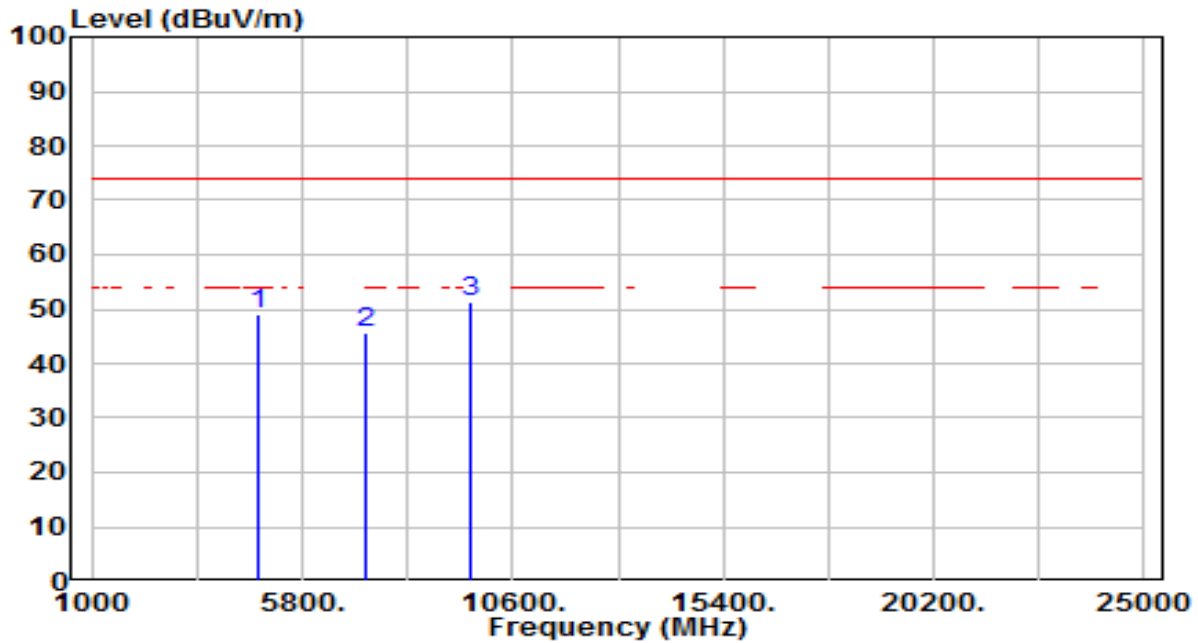


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4924.000	54.95	3.92	58.87	-15.13	74.00	300	124	Peak
2	*	4924.000	48.90	3.92	52.82	-1.18	54.00	300	124	Average
3		7386.000	32.16	12.21	44.36	-29.64	74.00	300	141	Peak
4	*	9848.000	44.19	16.14	60.33	-13.67	74.00	300	158	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

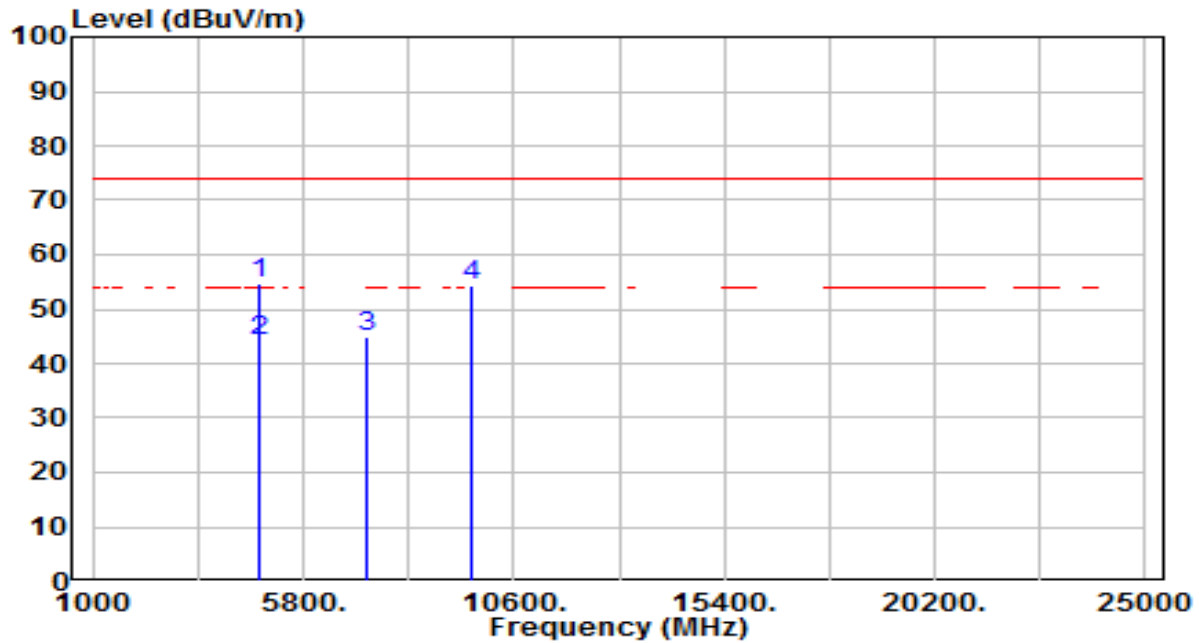


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	45.29	3.75	49.04	-24.96	74.00	300	70	Peak
2	7236.000	34.09	11.68	45.77	-28.23	74.00	300	92	Peak
3	* 9648.000	35.60	15.77	51.36	-22.64	74.00	300	67	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

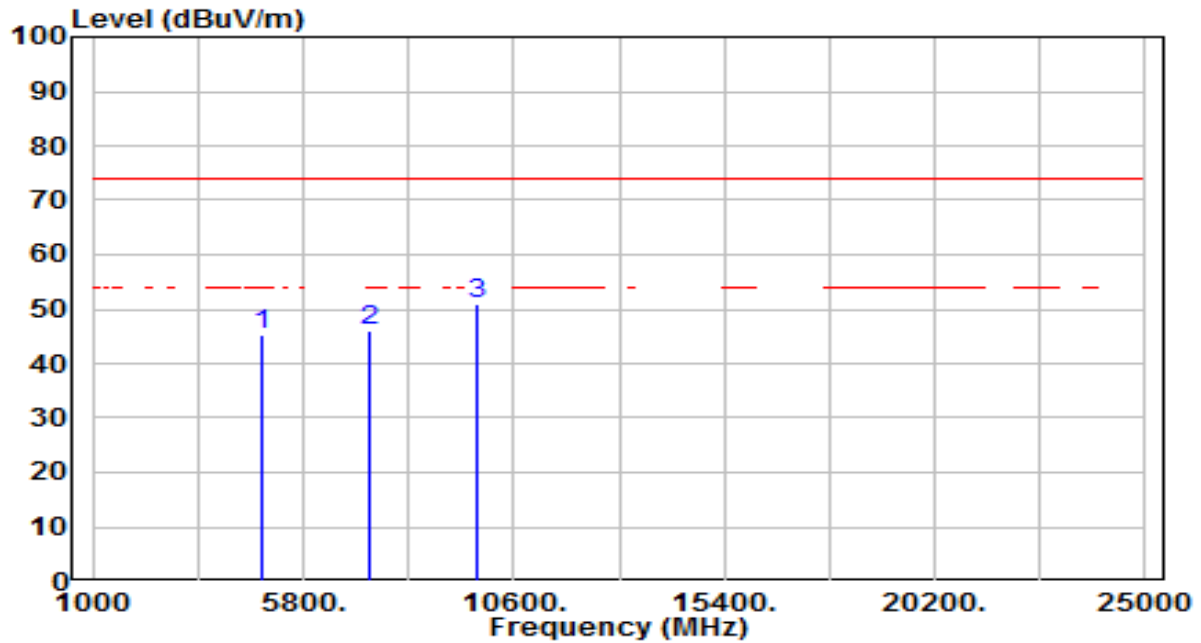


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4824.000	50.98	3.75	54.72	-19.28	74.00	300	125	Peak
2	*	4824.000	40.50	3.75	44.25	-9.75	54.00	300	125	Average
3		7236.000	33.21	11.68	44.88	-29.12	74.00	300	284	Peak
4		9648.000	38.52	15.77	54.29	-19.71	74.00	300	185	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

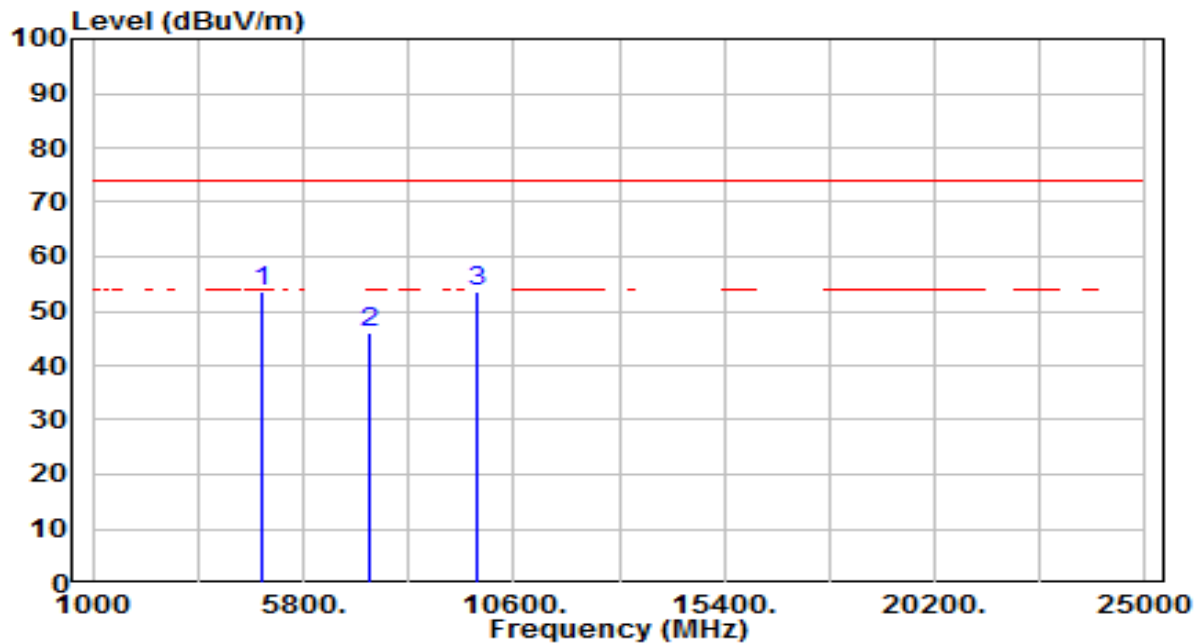


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	41.61	3.84	45.44	-28.56	74.00	300	204	Peak
2	7311.000	34.11	11.94	46.05	-27.95	74.00	300	37	Peak
3	* 9748.000	34.96	15.95	50.92	-23.08	74.00	300	65	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

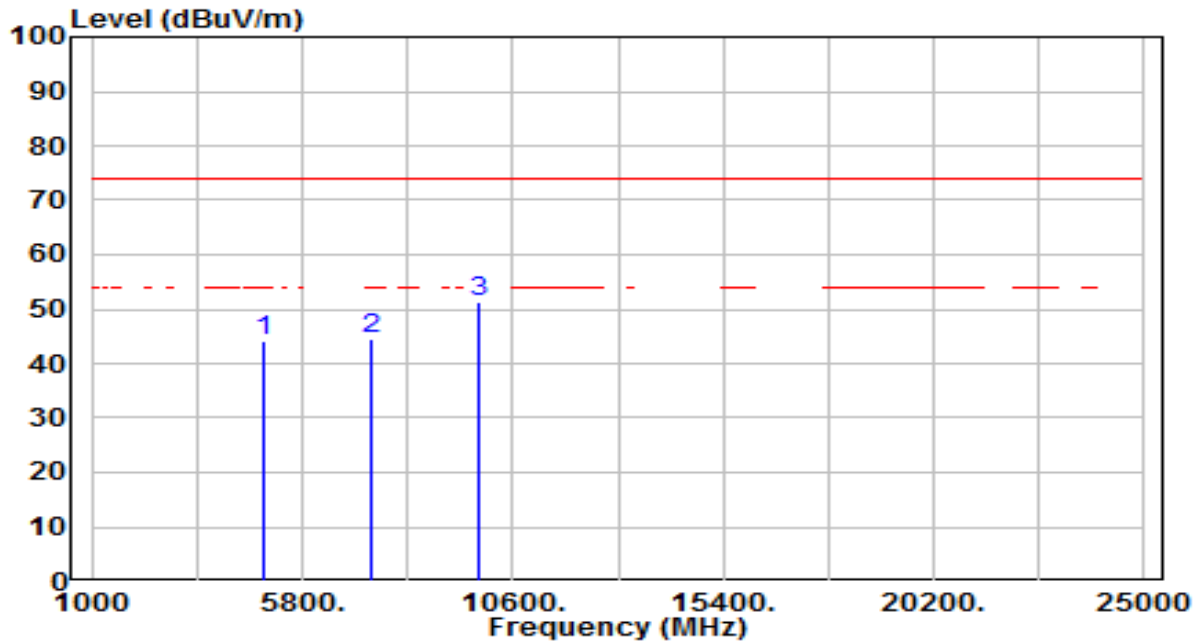


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	49.80	3.84	53.64	-20.36	74.00	300	113	Peak
2	7311.000	34.01	11.94	45.95	-28.05	74.00	300	258	Peak
3	* 9748.000	37.81	15.95	53.76	-20.24	74.00	300	109	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

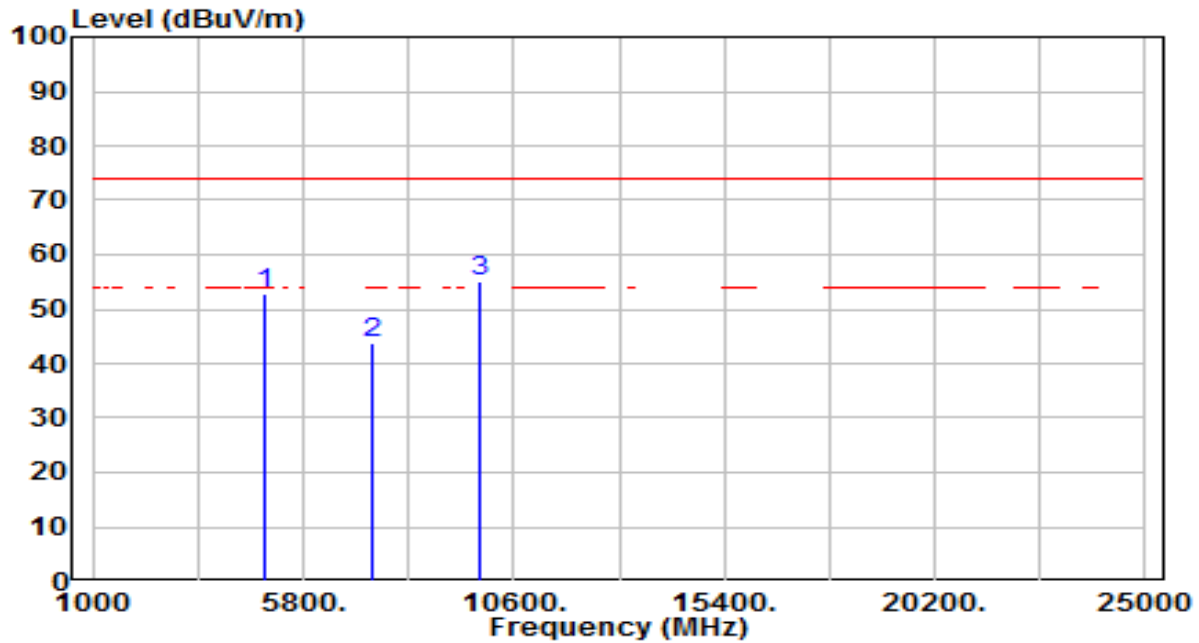


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	40.07	3.92	43.99	-30.01	74.00	300	199	Peak
2	7386.000	32.18	12.21	44.39	-29.61	74.00	300	111	Peak
3	* 9848.000	35.08	16.14	51.22	-22.78	74.00	300	69	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

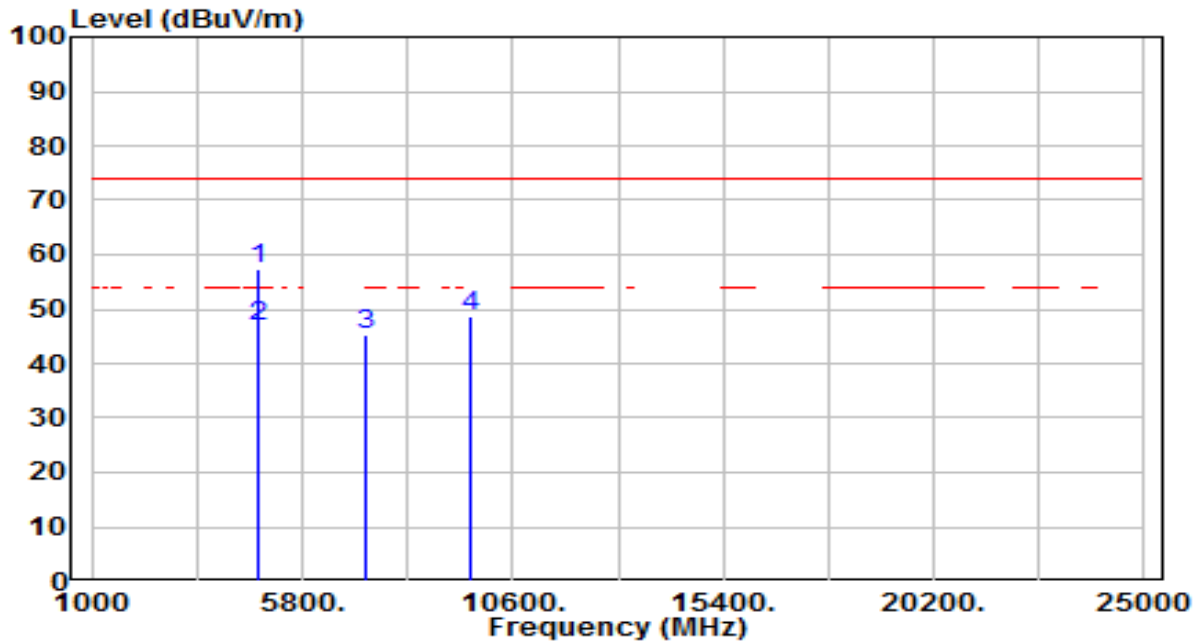


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	48.98	3.92	52.90	-21.10	74.00	300	122	Peak
2	7386.000	31.57	12.21	43.78	-30.22	74.00	300	30	Peak
3	* 9848.000	39.07	16.14	55.21	-18.79	74.00	300	80	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

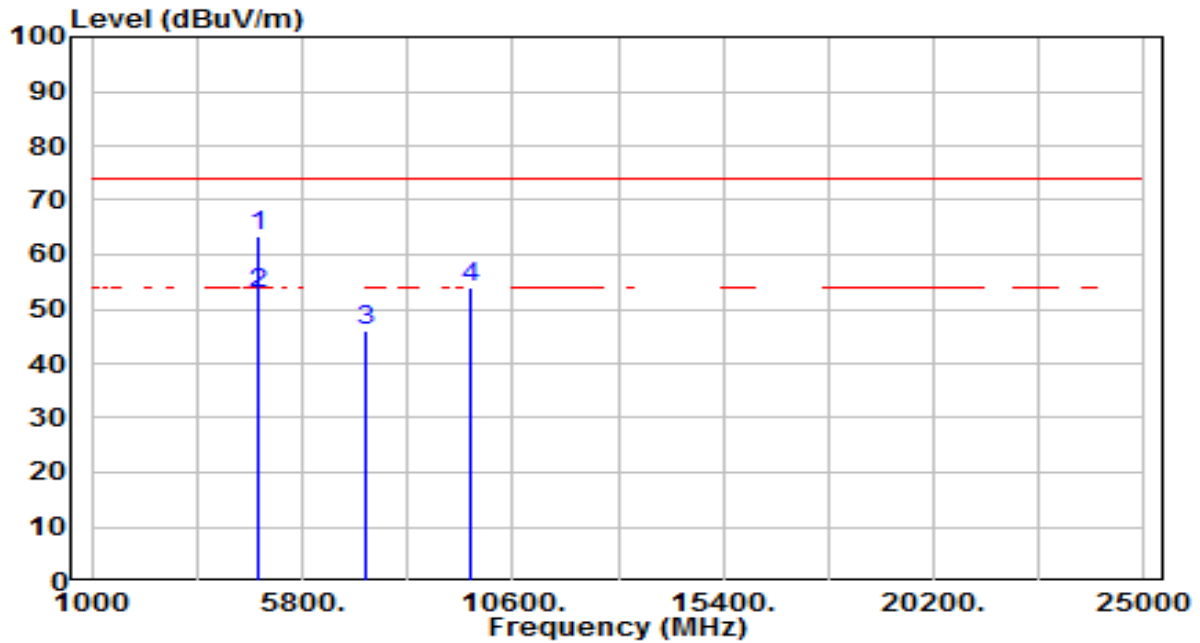


No		Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4824.000	53.44	3.75	57.19	-16.81	74.00	300	197	Peak
2	*	4824.000	43.00	3.75	46.75	-7.25	54.00	300	197	Average
3		7236.000	33.51	11.68	45.19	-28.81	74.00	300	204	Peak
4		9648.000	33.04	15.77	48.80	-25.20	74.00	300	261	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

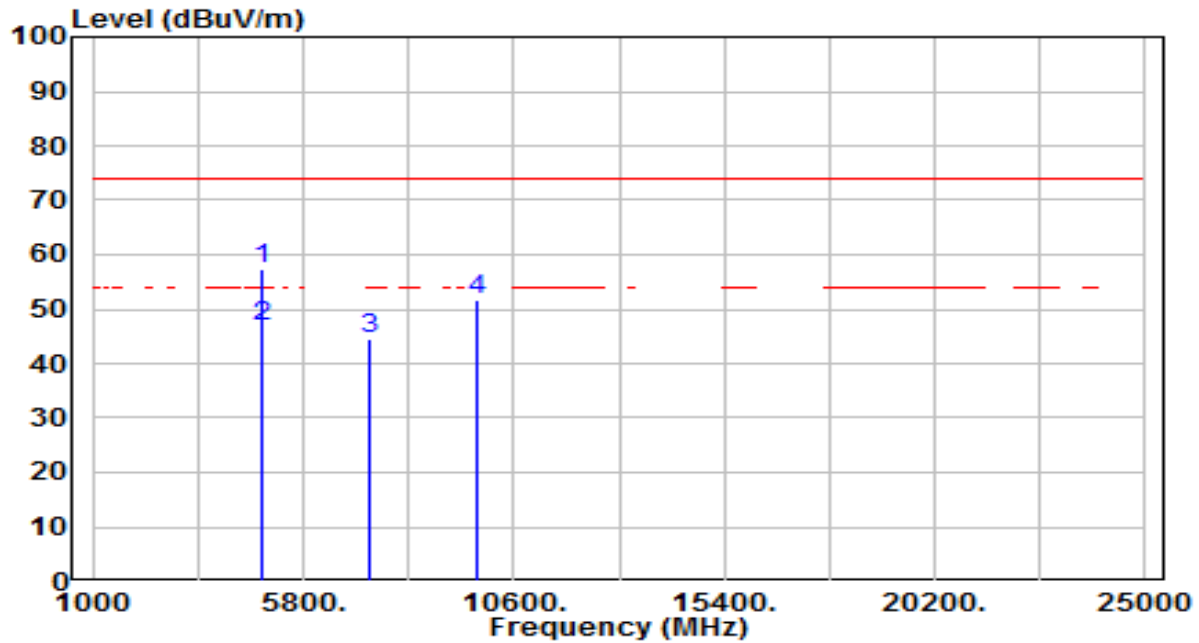


No		Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4824.000	59.53	3.75	63.27	-10.73	74.00	300	149	Peak
2	*	4824.000	49.10	3.75	52.85	-1.15	54.00	300	149	Average
3		7236.000	34.43	11.68	46.11	-27.89	74.00	300	11	Peak
4		9648.000	38.06	15.77	53.83	-20.17	74.00	300	188	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

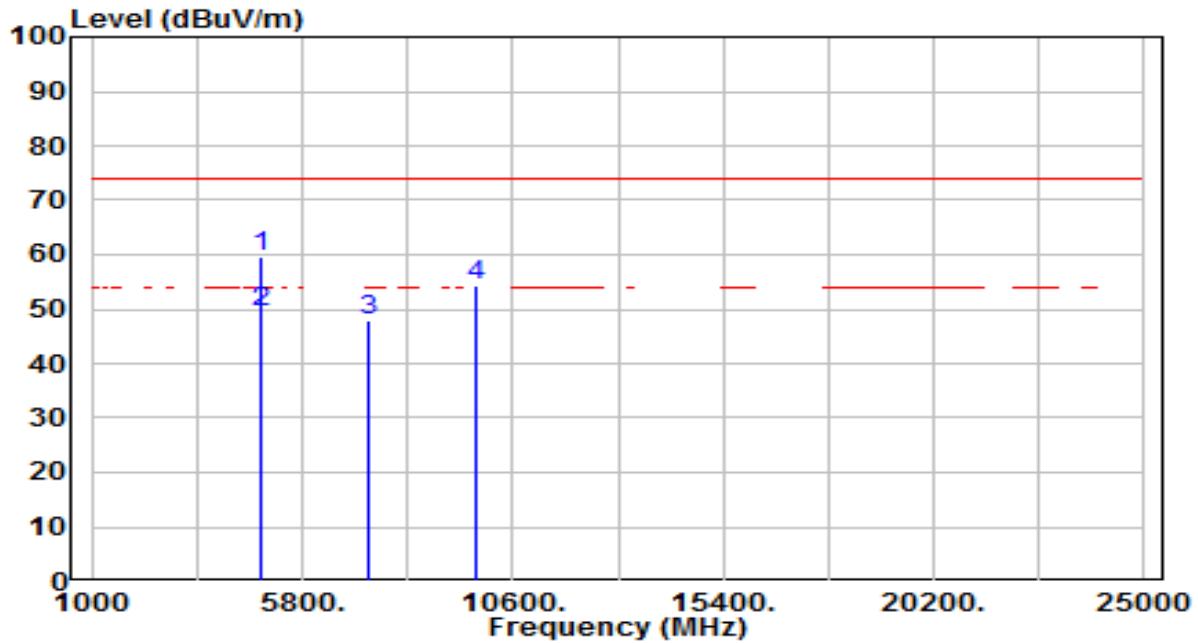


No		Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4874.000	53.46	3.84	57.29	-16.71	74.00	300	194	Peak
2	*	4874.000	43.00	3.84	46.84	-7.16	54.00	300	194	Average
3		7311.000	32.53	11.94	44.47	-29.53	74.00	300	0	Peak
4		9748.000	35.90	15.95	51.85	-22.15	74.00	300	73	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

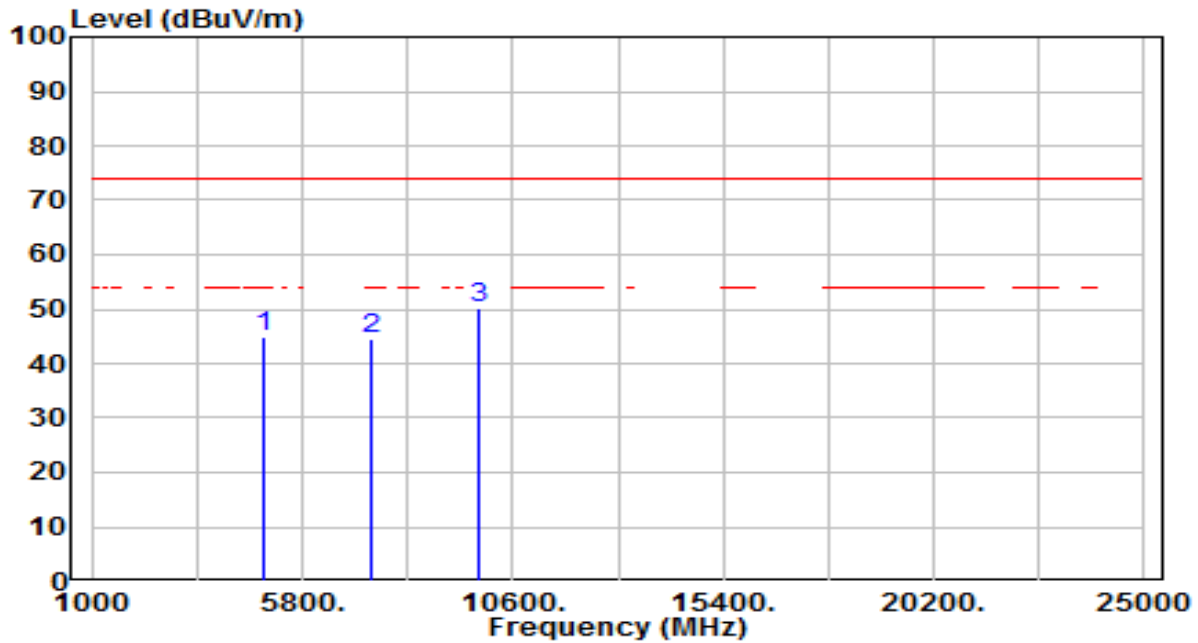


No		Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4874.000	55.91	3.84	59.75	-14.25	74.00	300	117	Peak
2	*	4874.000	45.50	3.84	49.34	-4.66	54.00	300	117	Average
3		7311.000	35.87	11.94	47.81	-26.19	74.00	300	258	Peak
4		9748.000	38.40	15.95	54.36	-19.64	74.00	300	82	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

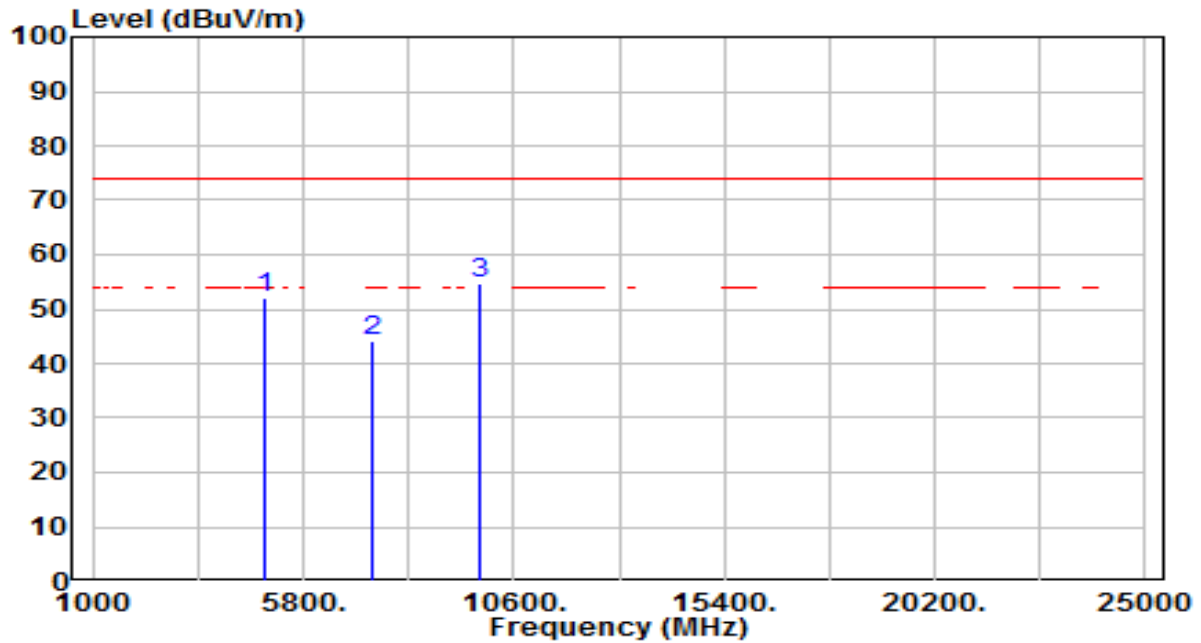


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4924.000	40.89	3.92	44.82	-29.18	74.00	300	58	Peak
2		7386.000	32.18	12.21	44.39	-29.61	74.00	300	26	Peak
3	*	9848.000	33.89	16.14	50.02	-23.98	74.00	300	118	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

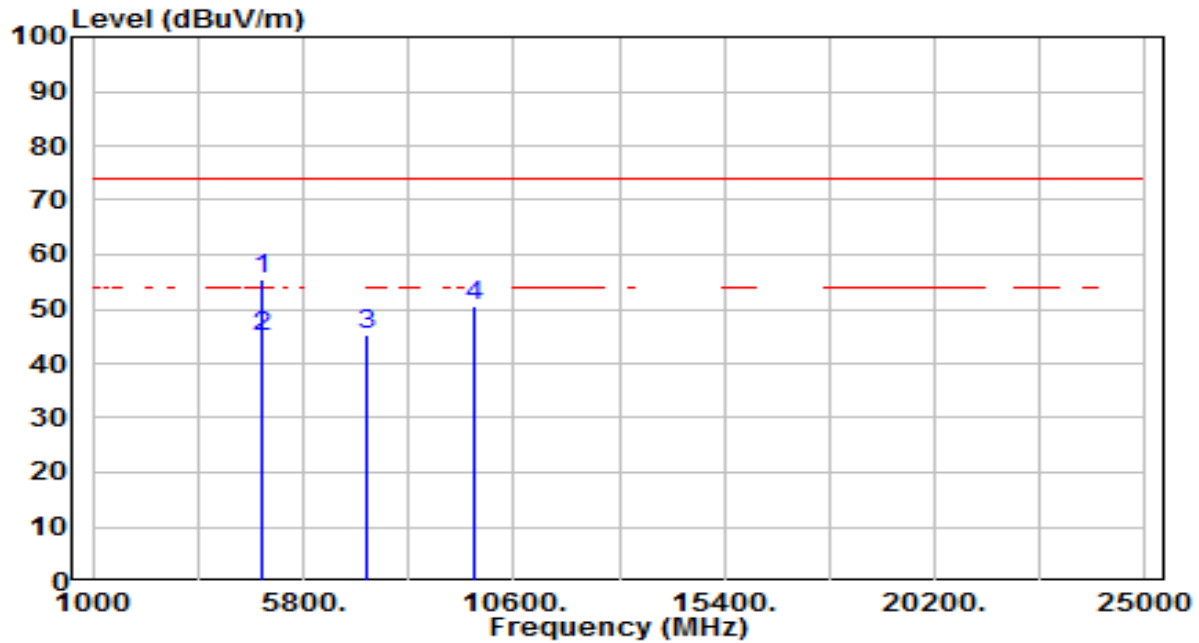


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	48.04	3.92	51.96	-22.04	74.00	300	131	Peak
2	7386.000	31.80	12.21	44.00	-30.00	74.00	300	53	Peak
3	* 9848.000	38.45	16.14	54.59	-19.41	74.00	300	330	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0+1	Test Voltage	AC 120V/60Hz

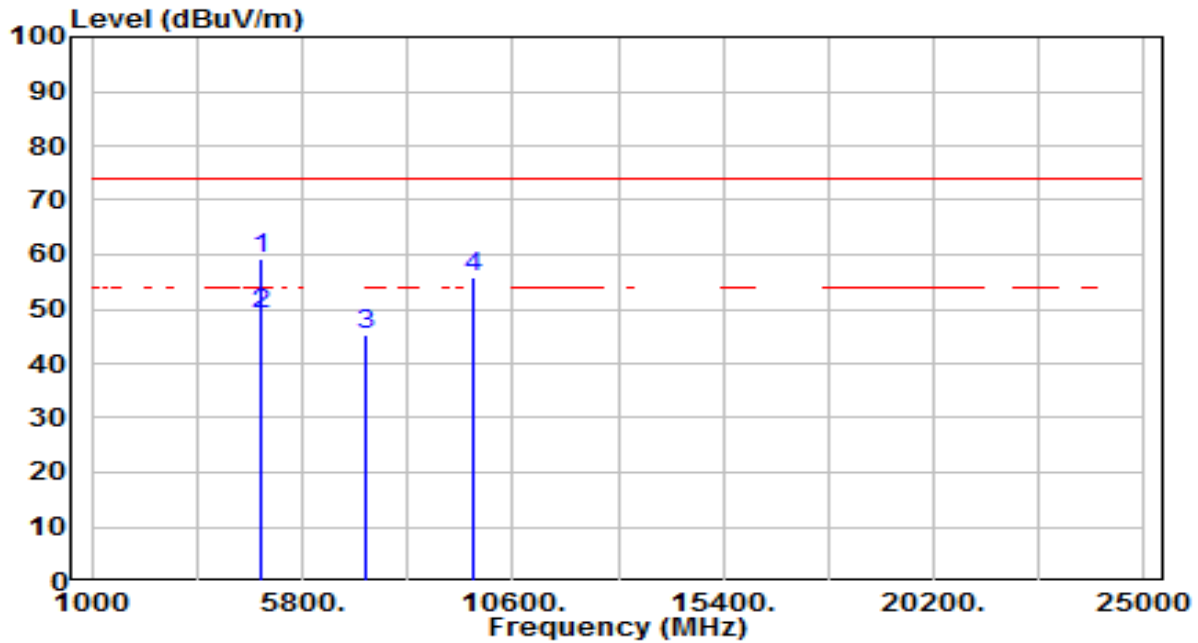


No		Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4844.000	51.53	3.78	55.31	-18.69	74.00	300	200	Peak
2	*	4844.000	41.10	3.78	44.88	-9.12	54.00	300	200	Average
3		7266.000	33.44	11.78	45.23	-28.77	74.00	300	320	Peak
4		9688.000	34.63	15.84	50.47	-23.53	74.00	300	72	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0+1	Test Voltage	AC 120V/60Hz

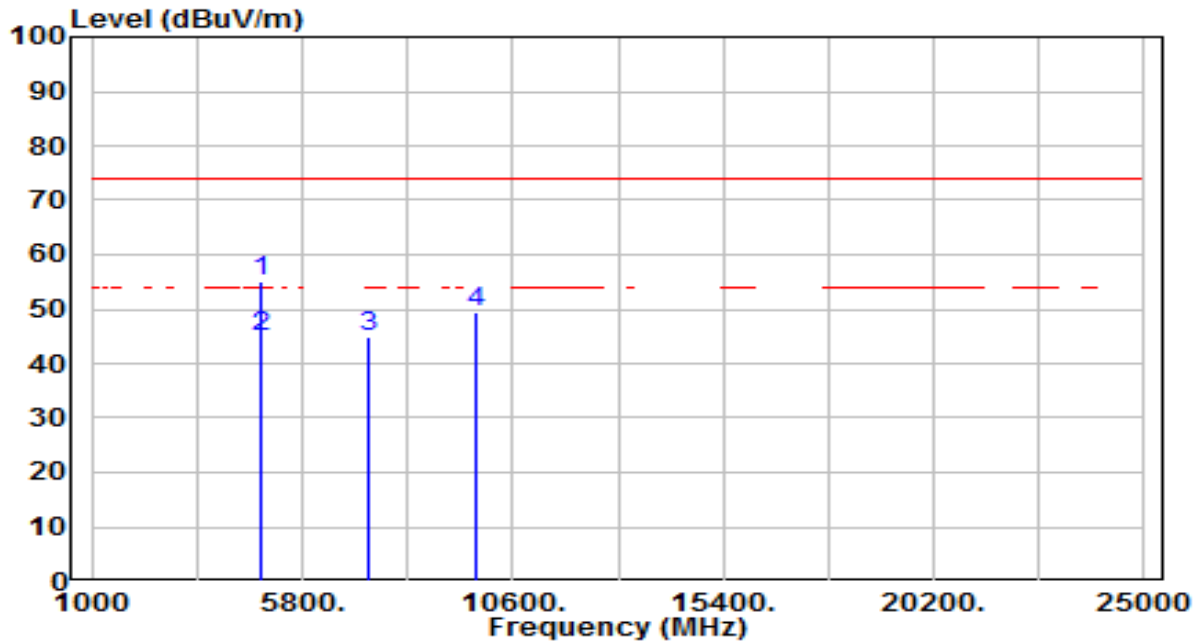


No		Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4844.000	55.61	3.78	59.39	-14.61	74.00	300	131	Peak
2	*	4844.000	45.20	3.78	48.98	-5.02	54.00	300	131	Average
3		7266.000	33.44	11.78	45.22	-28.78	74.00	300	67	Peak
4		9688.000	39.94	15.84	55.78	-18.22	74.00	300	184	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

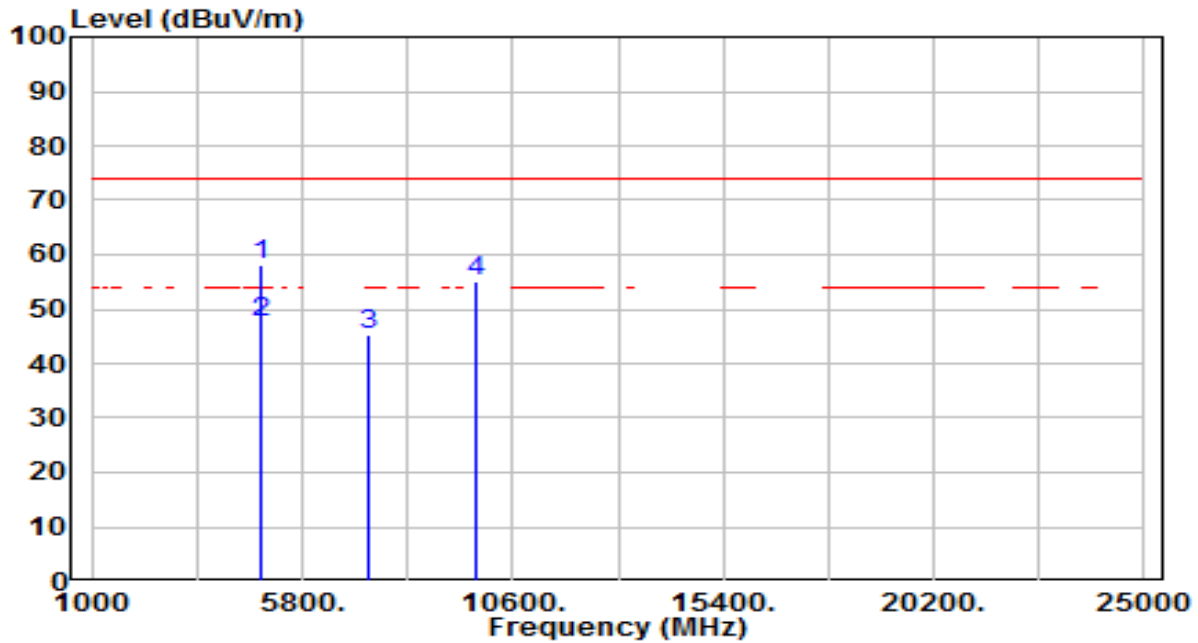


No		Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4874.000	51.42	3.84	55.26	-18.74	74.00	300	204	Peak
2	*	4874.000	41.00	3.84	44.84	-9.16	54.00	300	204	Average
3		7311.000	32.98	11.94	44.92	-29.08	74.00	300	345	Peak
4		9748.000	33.57	15.95	49.52	-24.48	74.00	300	68	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

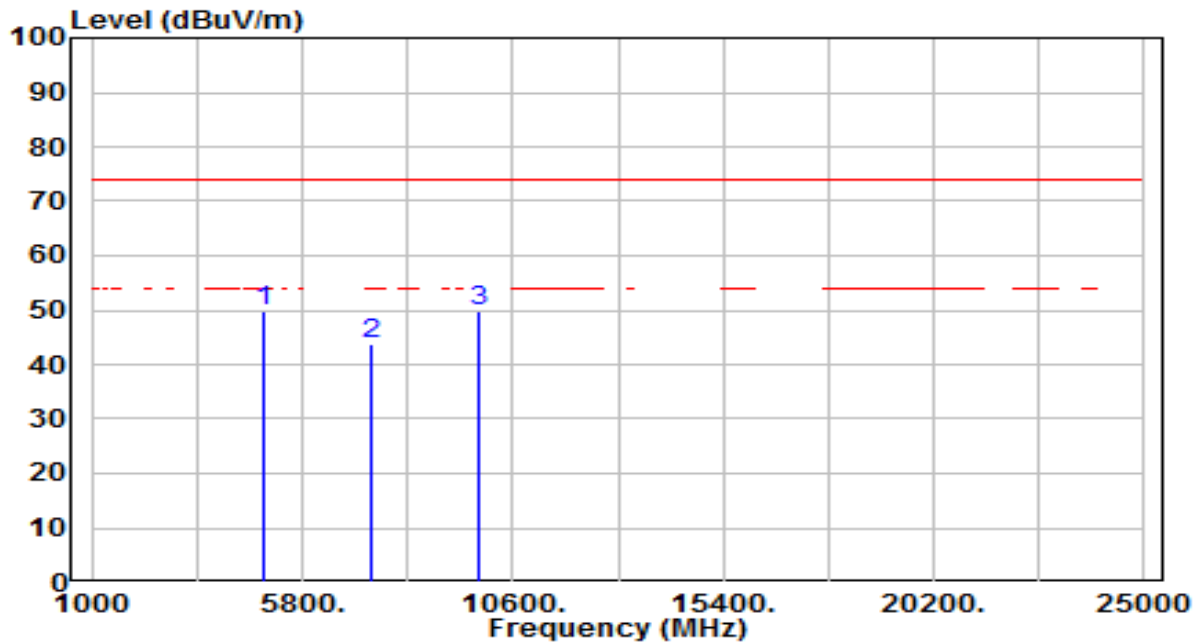


No		Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4874.000	54.10	3.84	57.94	-16.06	74.00	300	147	Peak
2	*	4874.000	43.70	3.84	47.54	-6.46	54.00	300	147	Average
3		7311.000	33.36	11.94	45.30	-28.70	74.00	300	256	Peak
4		9748.000	39.21	15.95	55.16	-18.84	74.00	300	182	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 9_ANT 0+1	Test Voltage	AC 120V/60Hz

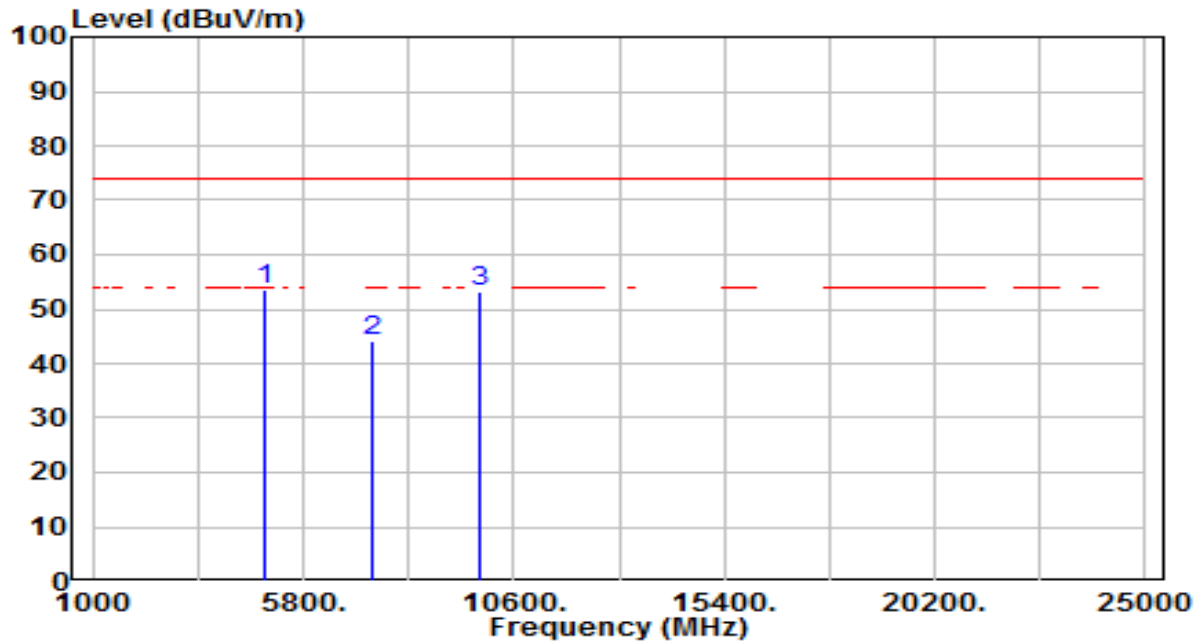


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4904.000	45.89	3.89	49.77	-24.23	74.00	300	203	Peak
2	7356.000	31.66	12.10	43.76	-30.24	74.00	300	207	Peak
3	* 9808.000	33.82	16.06	49.88	-24.12	74.00	300	69	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 9_ANT 0+1	Test Voltage	AC 120V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4904.000	49.82	3.89	53.71	-20.29	74.00	300	133	Peak
2		7356.000	32.19	12.10	44.29	-29.71	74.00	300	87	Peak
3		9808.000	37.12	16.06	53.19	-20.81	74.00	300	164	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.7.2.Test Procedure Used

ANSI C63.10 - 2013 Section 6.3 (General Requirements)

ANSI C63.10 - 2013 Section 6.6 (Standard test method above 1GHz)

7.7.3.Test Setting

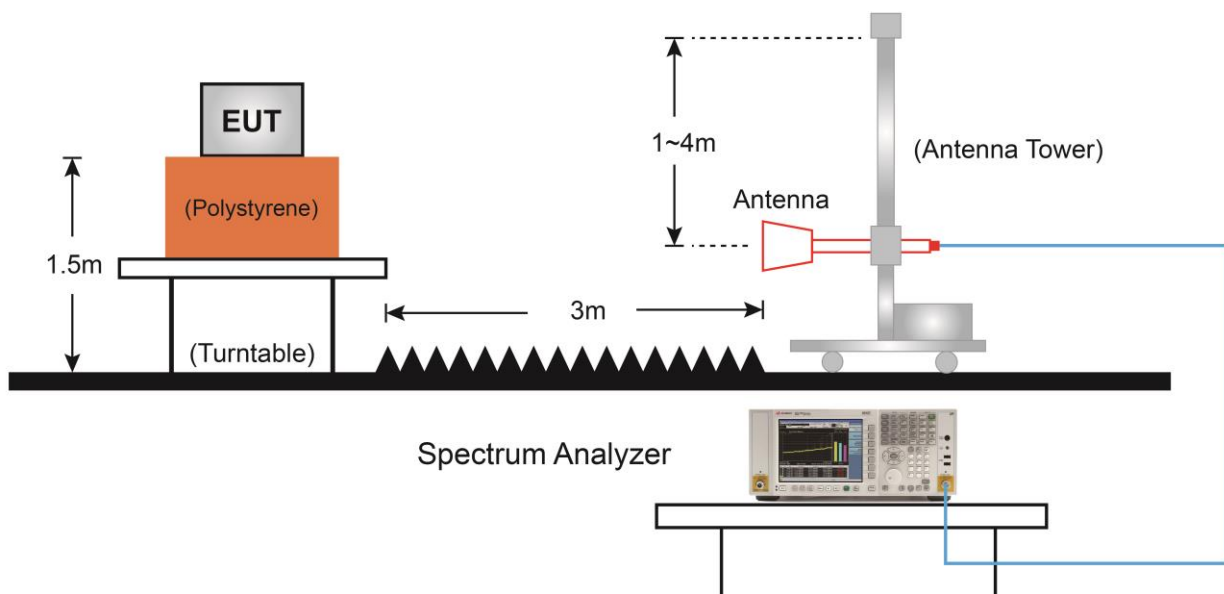
Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

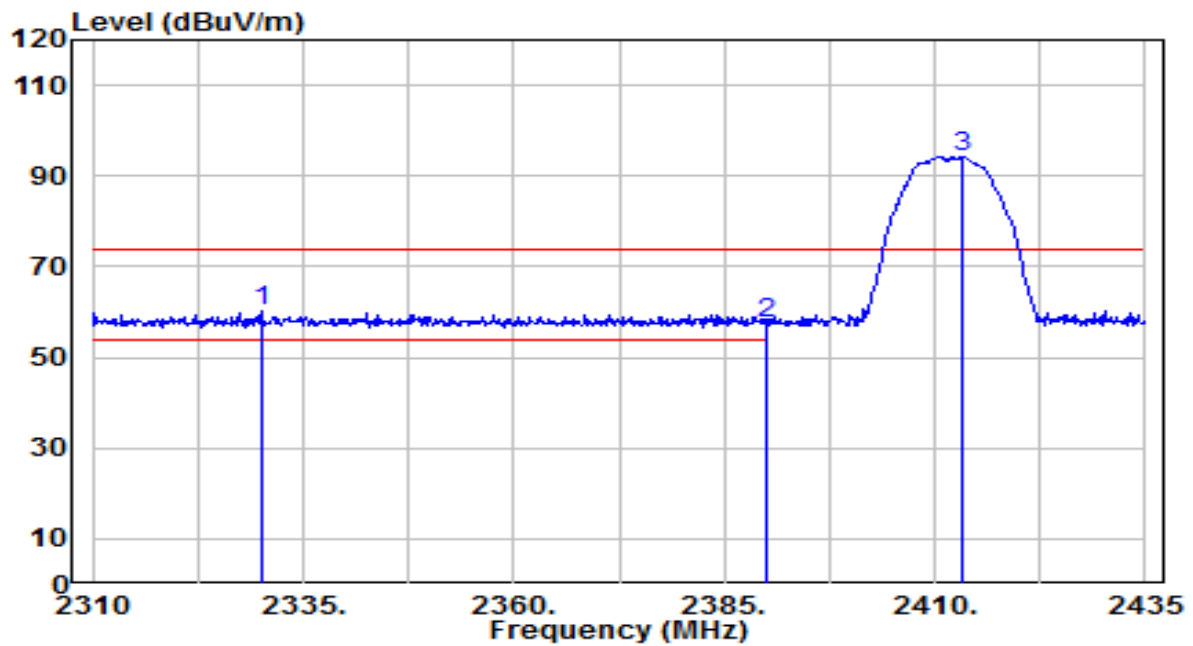
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

7.7.4.Test Setup



7.7.5. Test Result

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

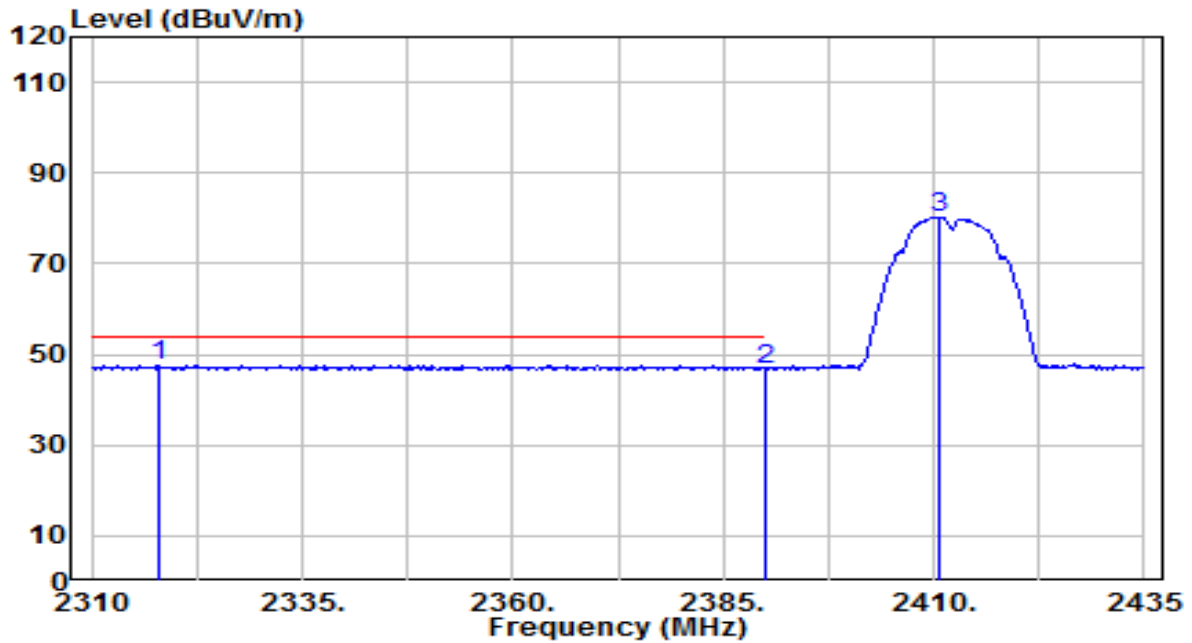


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2330.000	28.31	31.72	60.04	-13.96	74.00	140	280	Peak
2		2390.000	25.45	31.95	57.40	-16.60	74.00	140	280	Peak
3		2413.250	62.20	32.04	94.24	N/A	N/A	140	280	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

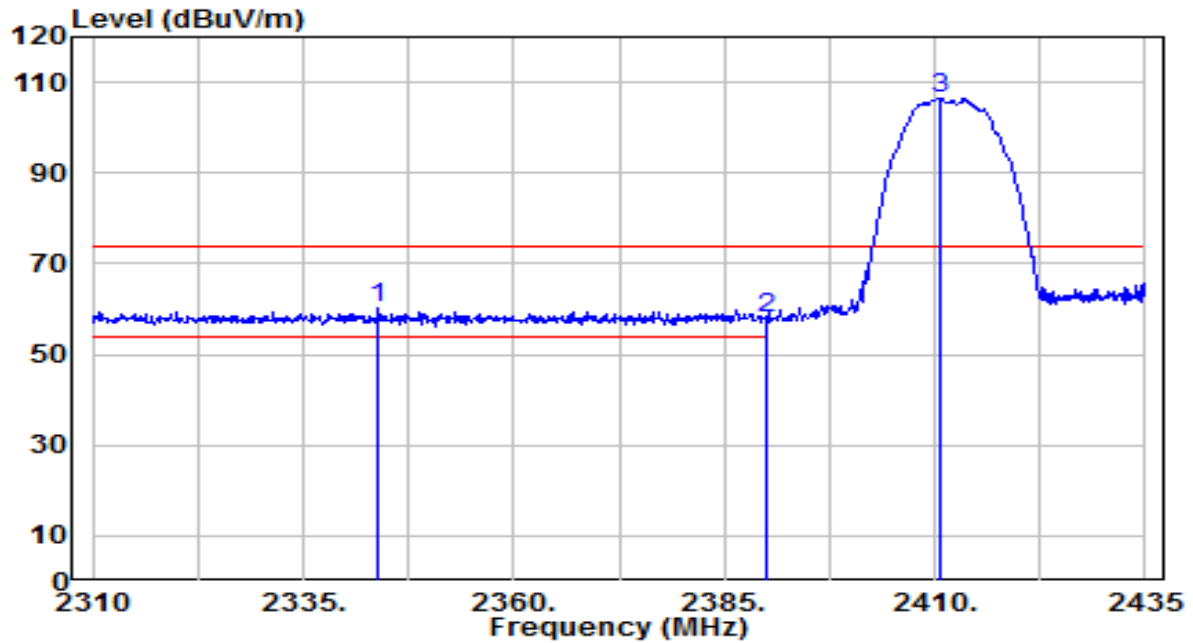


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2318.000	15.90	31.68	47.58	-6.42	54.00	140	280	Average
2		2390.000	14.74	31.95	46.69	-7.31	54.00	140	280	Average
3		2410.500	48.23	32.03	80.25	N/A	N/A	140	280	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

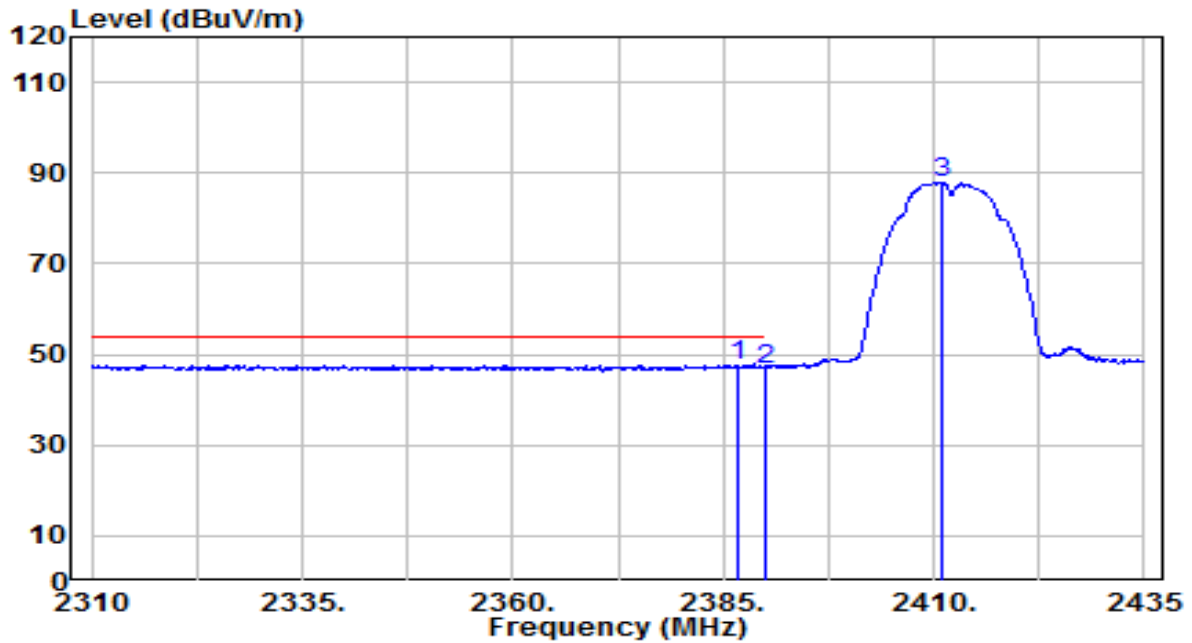


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2344.000	28.49	31.78	60.26	-13.74	74.00	110	210	Peak
2		2390.000	26.01	31.95	57.96	-16.04	74.00	110	210	Peak
3		2410.500	74.34	32.03	106.37	N/A	N/A	110	210	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

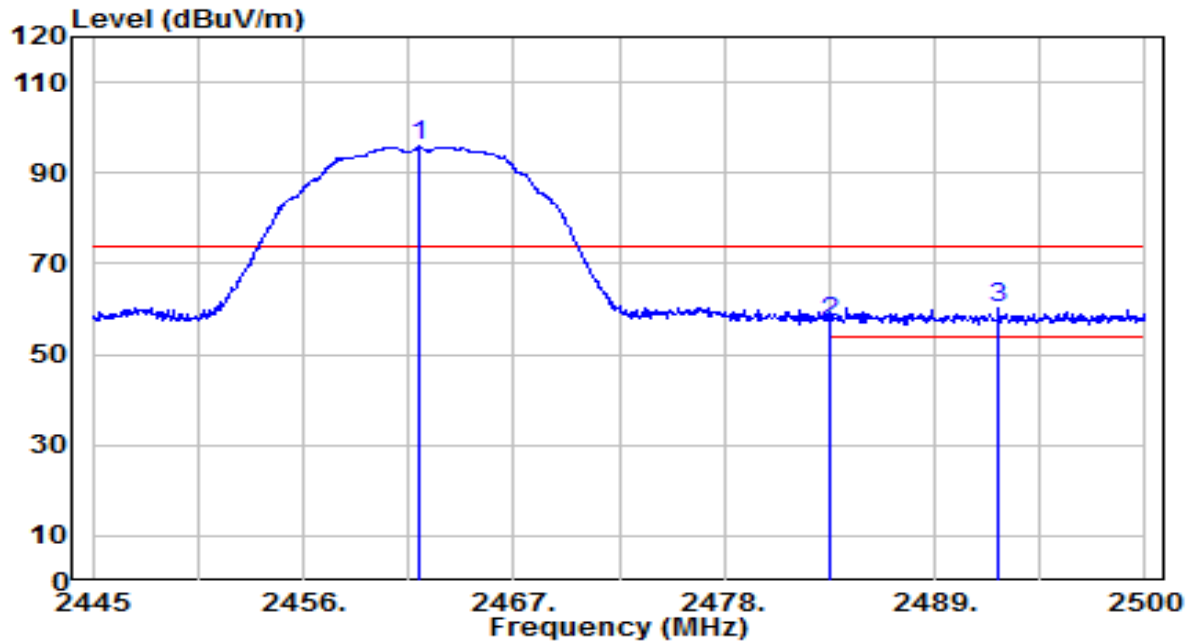


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2386.875	15.72	31.94	47.66	-6.34	54.00	110	210	Average
2		2390.000	14.81	31.95	46.76	-7.24	54.00	110	210	Average
3		2410.875	55.95	32.03	87.98	N/A	N/A	110	210	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

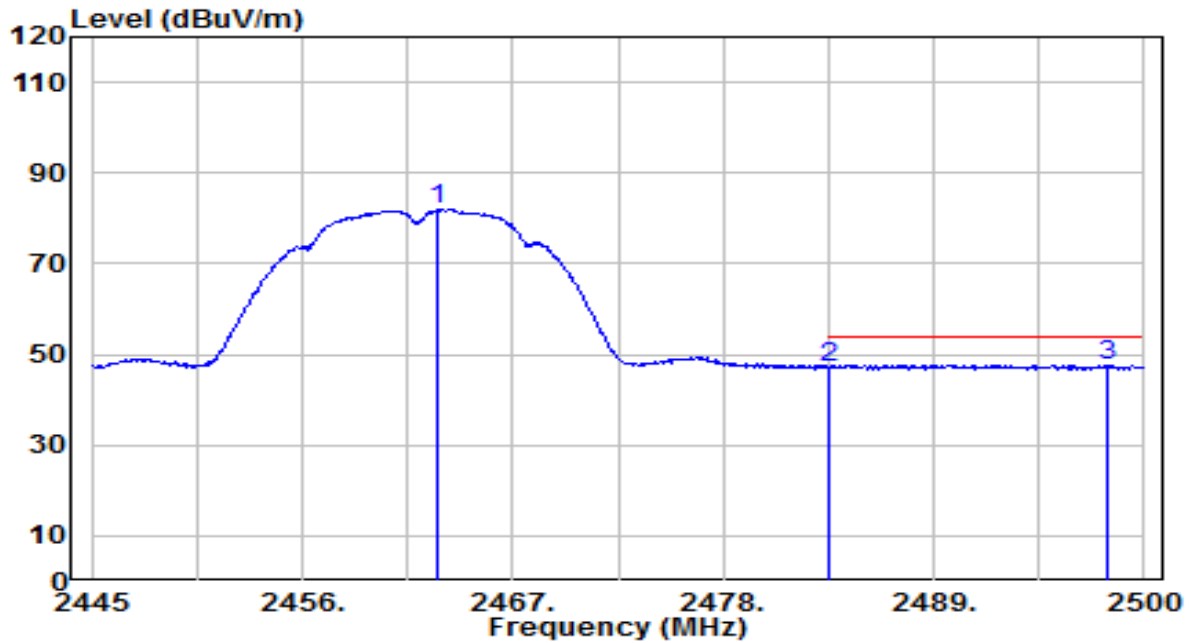


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2461.995	63.69	32.22	95.91	N/A	N/A	105	105	Peak
2	2483.500	24.90	32.30	57.20	-16.80	74.00	105	105	Peak
3	* 2492.355	28.01	32.33	60.34	-13.66	74.00	105	105	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

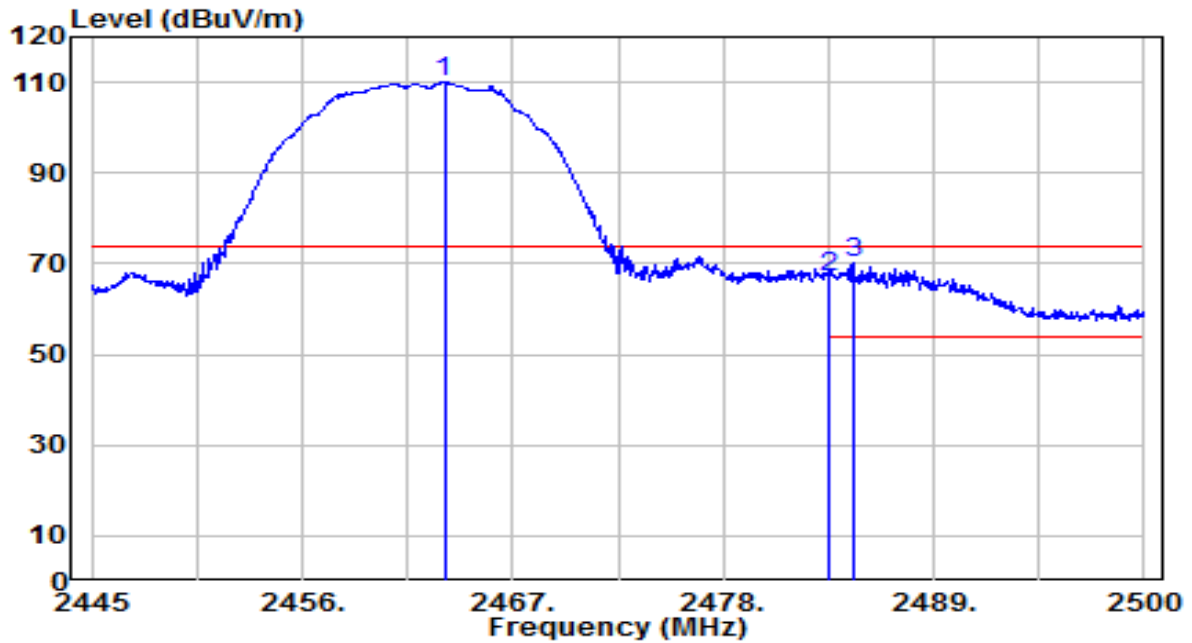


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2463.095	49.78	32.22	82.00	N/A	N/A	105	105	Average
2	2483.500	14.92	32.30	47.22	-6.78	54.00	105	105	Average
3	* 2498.020	15.32	32.35	47.67	-6.33	54.00	105	105	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

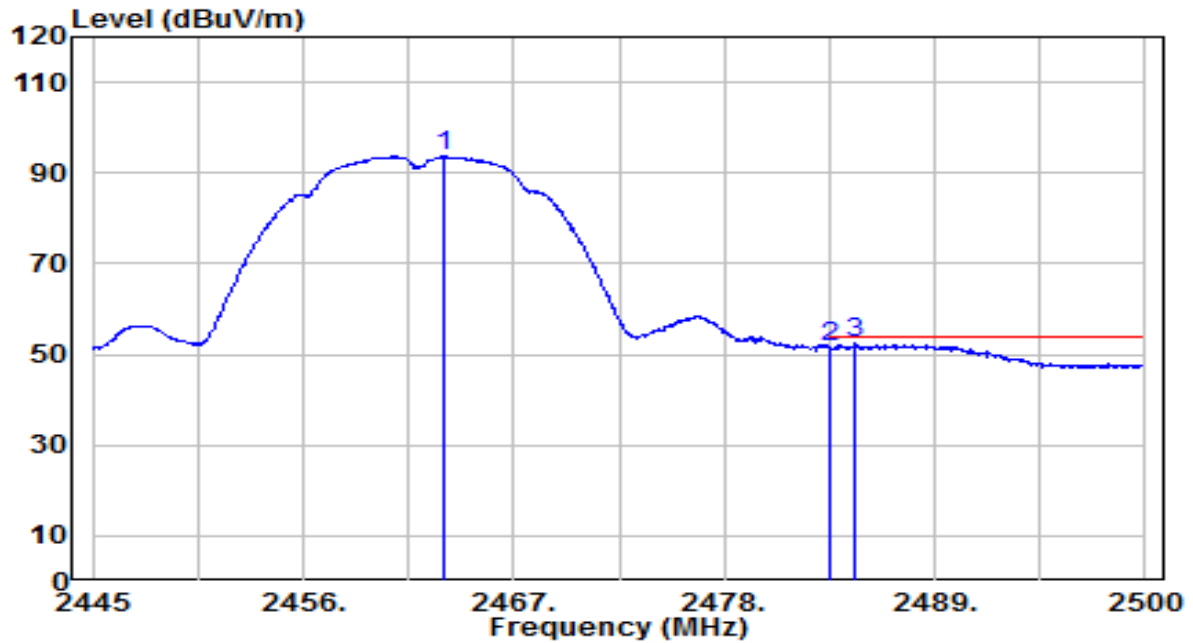


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2463.425	77.78	32.22	110.00	N/A	N/A	160	25	Peak
2	2483.500	34.69	32.30	66.99	-7.01	74.00	160	25	Peak
3	* 2484.820	37.85	32.30	70.15	-3.85	74.00	160	25	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

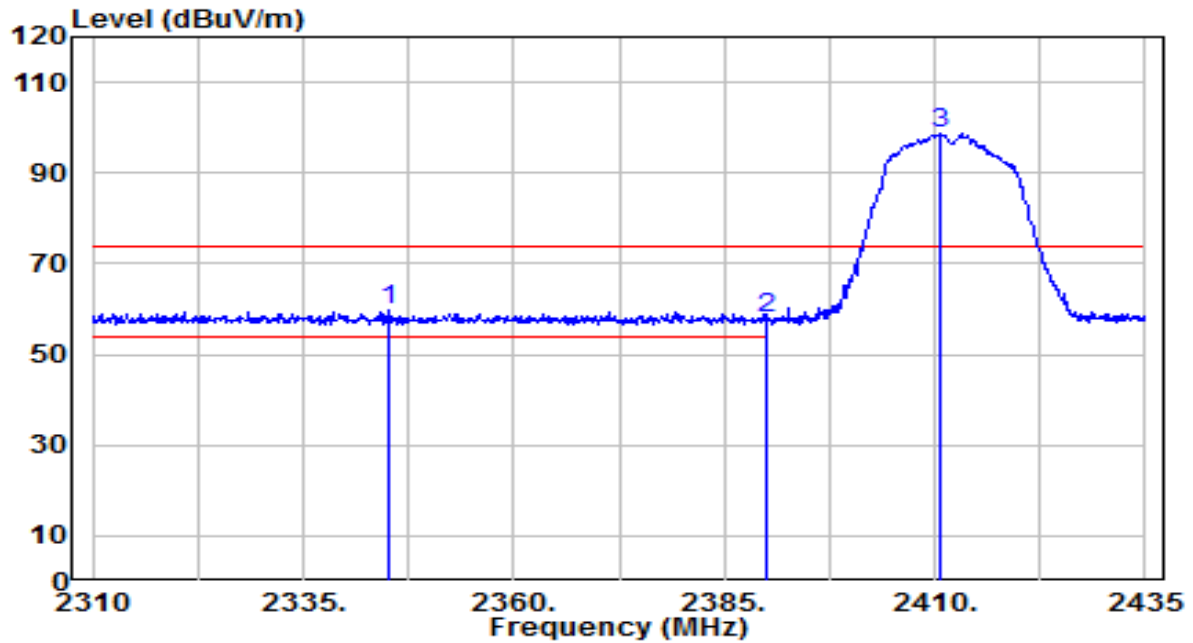


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2463.370	61.40	32.22	93.62	N/A	N/A	160	25	Average
2	2483.500	19.51	32.30	51.81	-2.19	54.00	160	25	Average
3	* 2484.820	20.10	32.30	52.40	-1.60	54.00	160	25	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

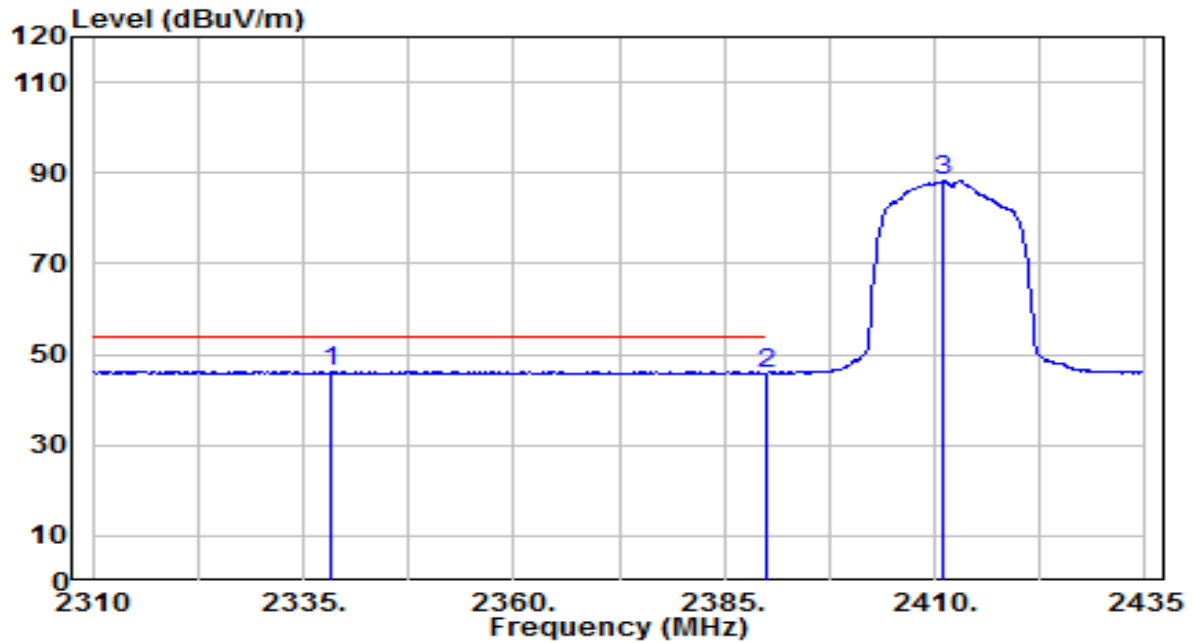


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2345.125	27.87	31.78	59.65	-14.35	74.00	145	280	Peak
2		2390.000	26.04	31.95	57.98	-16.02	74.00	145	280	Peak
3		2410.500	66.65	32.03	98.67	N/A	N/A	145	280	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

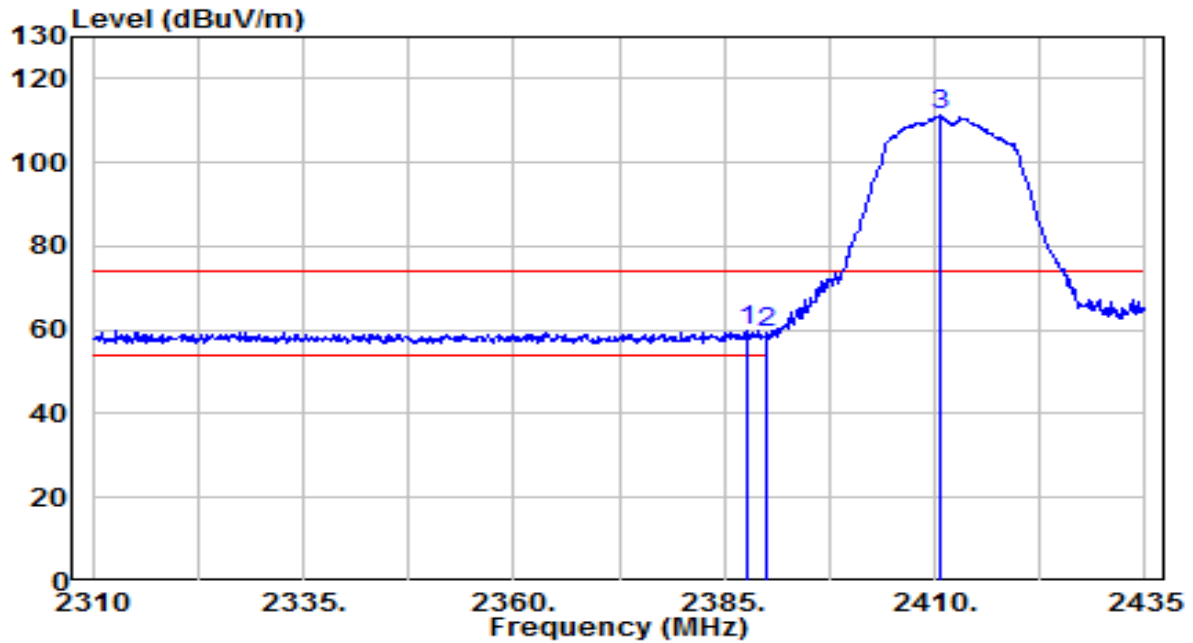


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2338.375	14.53	31.76	46.28	-7.72	54.00	145	280	Average
2		2390.000	13.86	31.95	45.81	-8.19	54.00	145	280	Average
3		2410.875	56.33	32.03	88.36	N/A	N/A	145	280	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

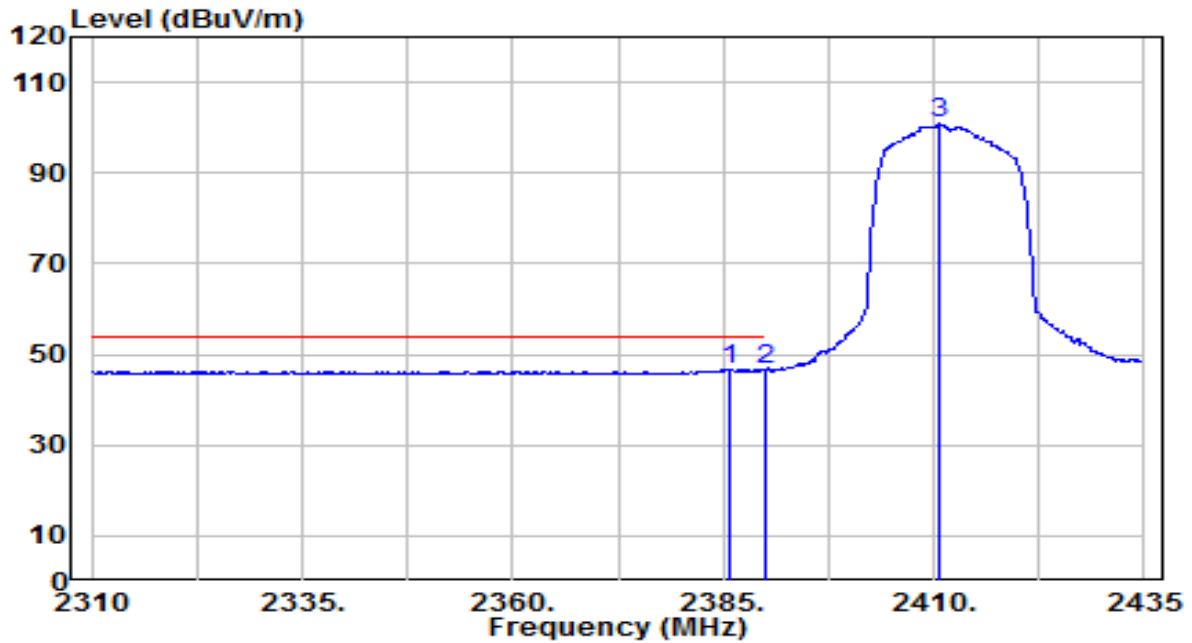


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2387.875	28.08	31.94	60.02	-13.98	74.00	100	30	Peak
2		2390.000	27.45	31.95	59.39	-14.61	74.00	100	30	Peak
3		2410.750	79.13	32.03	111.16	N/A	N/A	100	30	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

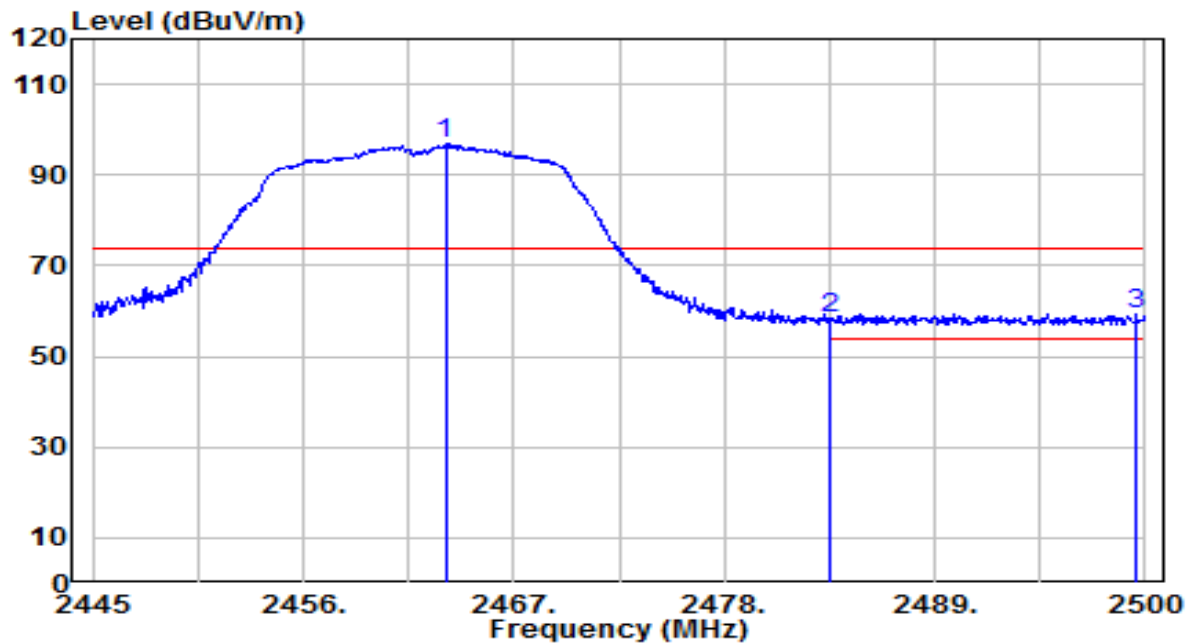


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2385.625	14.88	31.93	46.81	-7.19	54.00	100	30	Average
2		2390.000	14.64	31.95	46.59	-7.41	54.00	100	30	Average
3		2410.750	68.73	32.03	100.76	N/A	N/A	100	30	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

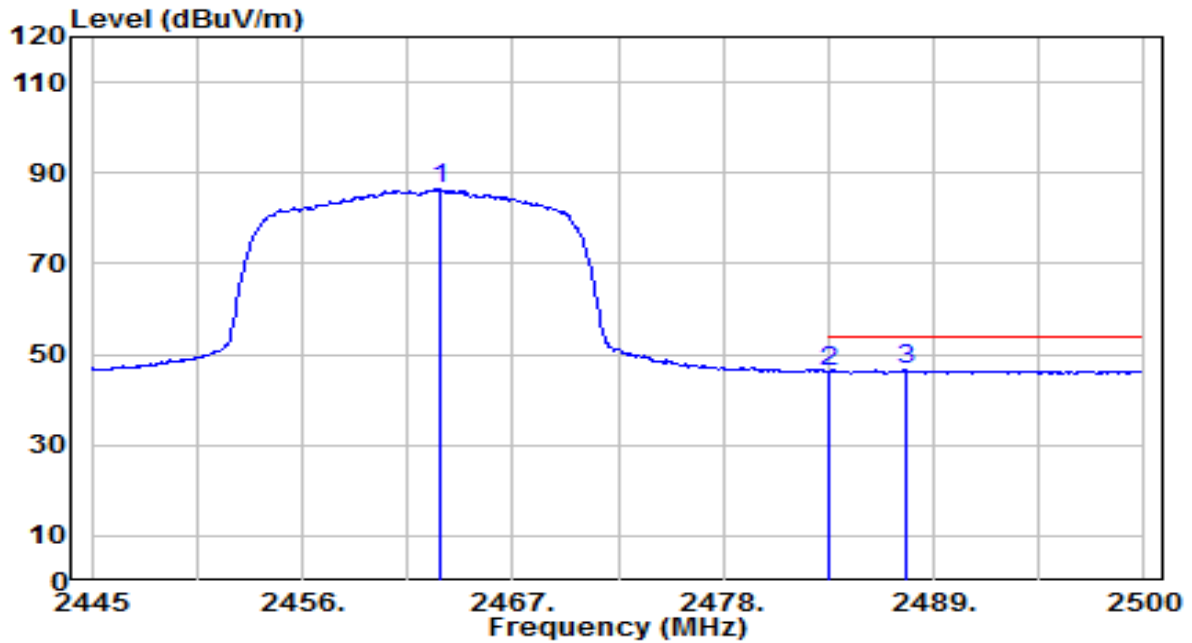


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2463.425	64.53	32.22	96.75	N/A	N/A	105	105	Peak
2	2483.500	26.18	32.30	58.48	-15.52	74.00	105	105	Peak
3	* 2499.560	27.07	32.36	59.43	-14.57	74.00	105	105	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

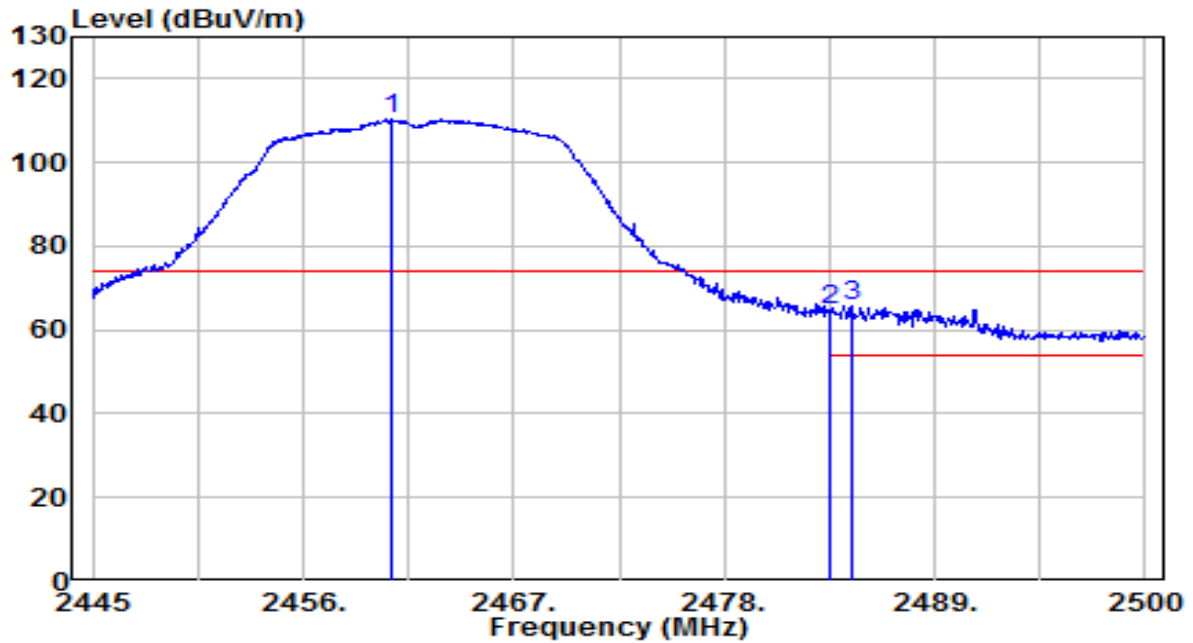


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2463.150	54.26	32.22	86.48	N/A	N/A	105	105	Average
2	2483.500	14.07	32.30	46.37	-7.63	54.00	105	105	Average
3	* 2487.515	14.27	32.31	46.58	-7.42	54.00	105	105	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

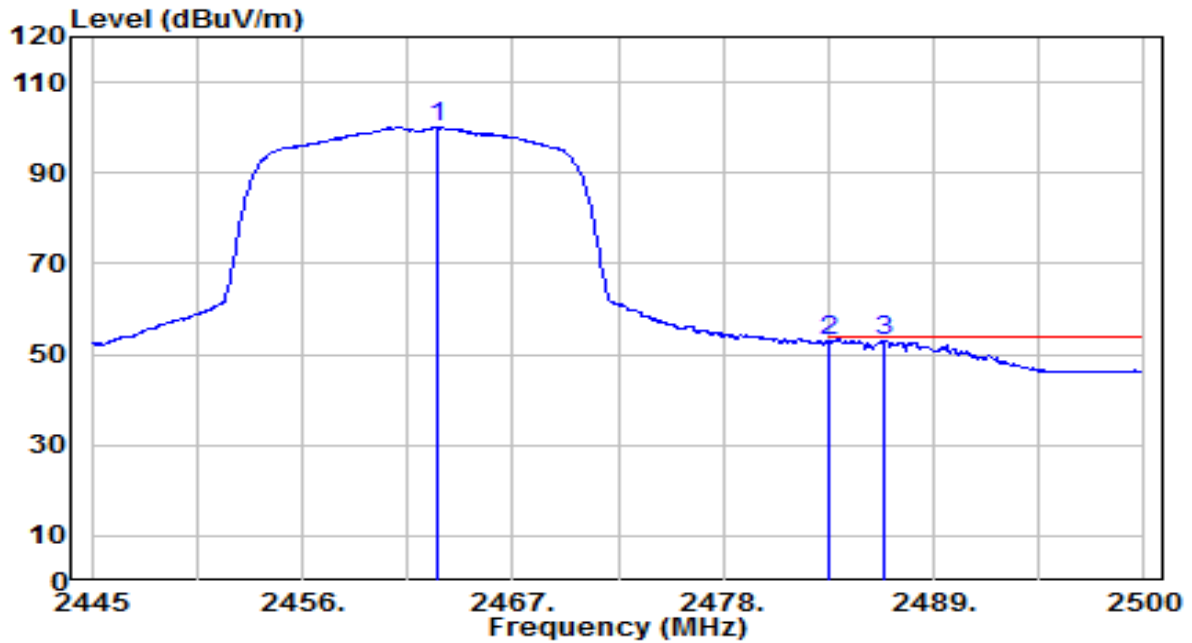


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2460.675	77.99	32.21	110.21	N/A	N/A	105	25	Peak
2	2483.500	32.38	32.30	64.67	-9.33	74.00	105	25	Peak
3	* 2484.655	33.20	32.30	65.51	-8.49	74.00	105	25	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

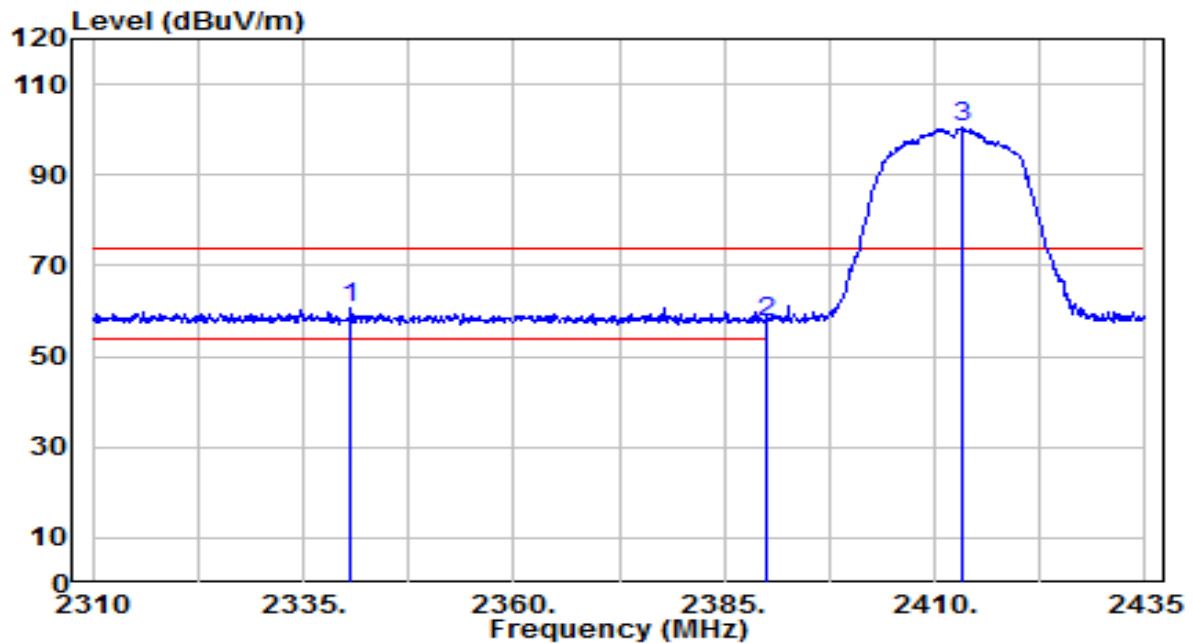


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2463.095	67.91	32.22	100.13	N/A	N/A	105	25	Average
2	2483.500	20.52	32.30	52.82	-1.18	54.00	105	25	Average
3	* 2486.360	20.79	32.31	53.10	-0.90	54.00	105	25	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

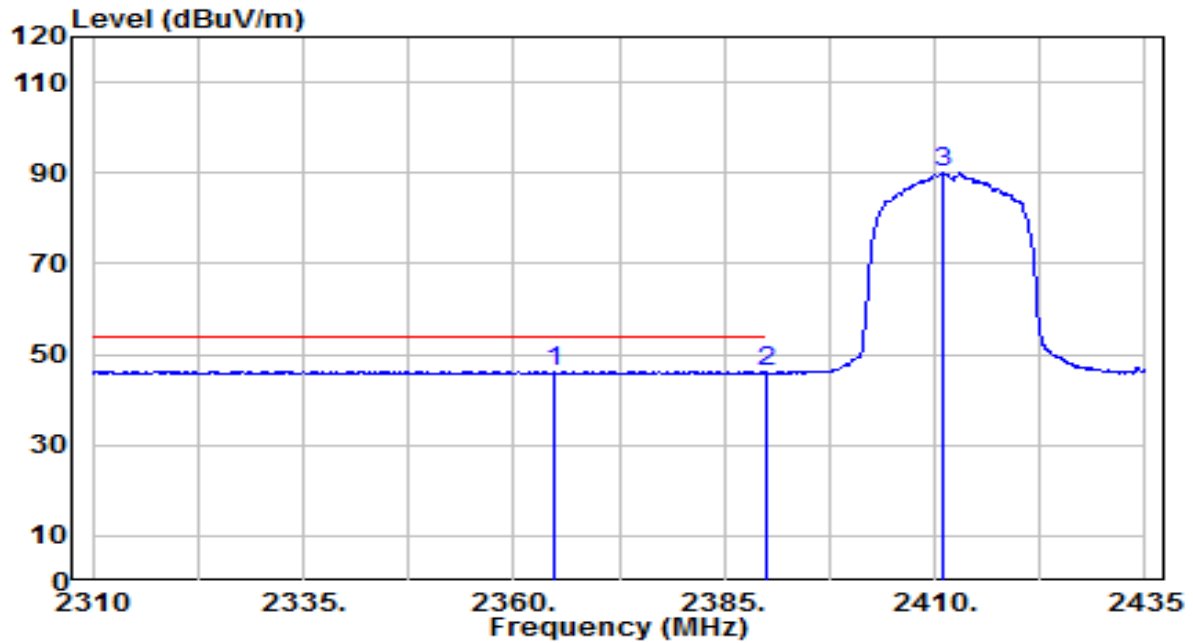


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2340.625	29.03	31.76	60.79	-13.21	74.00	140	275	Peak
2		2390.000	25.59	31.95	57.54	-16.46	74.00	140	275	Peak
3		2413.250	68.68	32.04	100.71	N/A	N/A	140	275	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

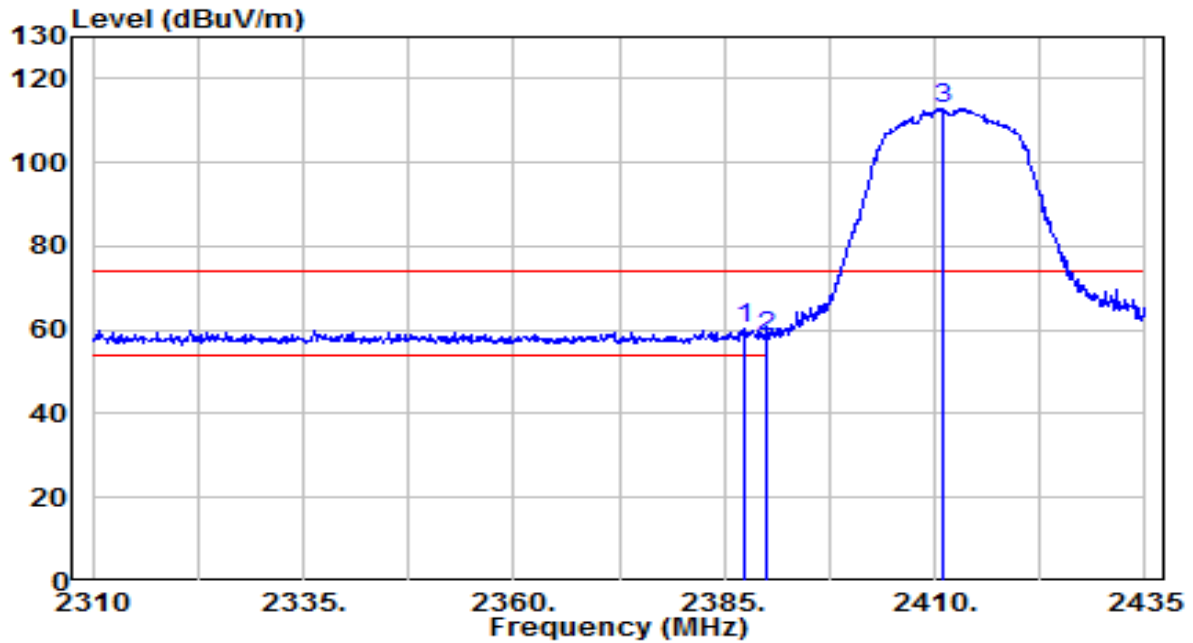


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2364.750	14.40	31.85	46.26	-7.74	54.00	140	275	Average
2		2390.000	14.09	31.95	46.03	-7.97	54.00	140	275	Average
3		2411.125	57.91	32.03	89.94	N/A	N/A	140	275	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

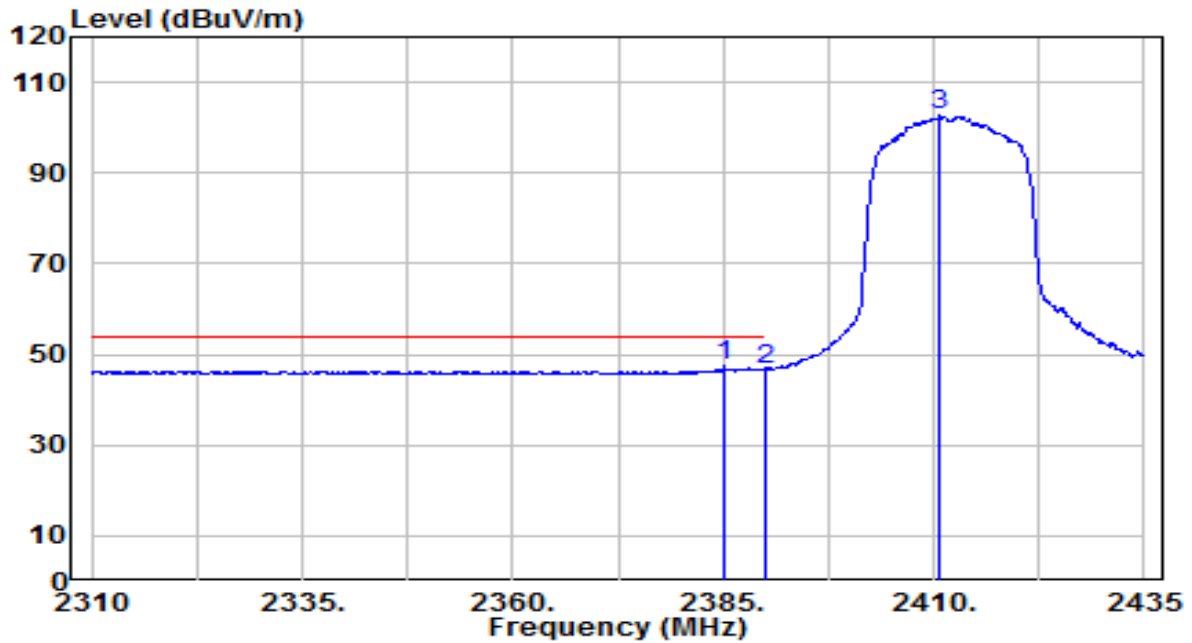


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2387.500	28.42	31.94	60.36	-13.64	74.00	110	215	Peak
2		2390.000	26.58	31.95	58.53	-15.47	74.00	110	215	Peak
3		2410.875	81.02	32.03	113.04	N/A	N/A	110	215	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

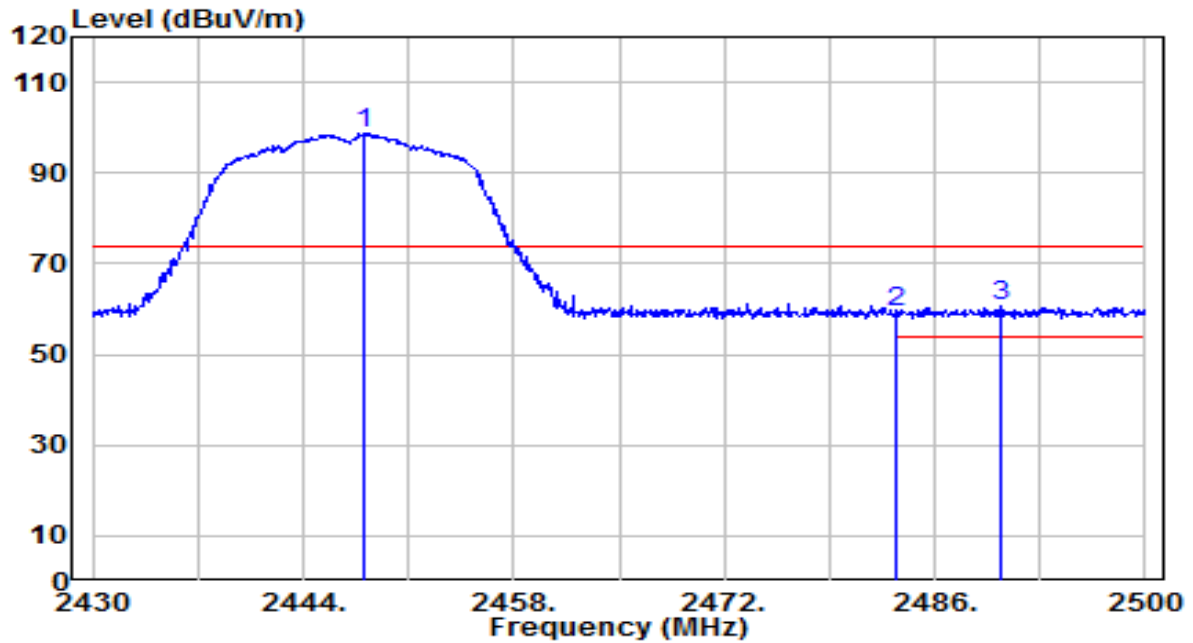


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2385.125	15.50	31.93	47.43	-6.57	54.00	110	215	Average
2		2390.000	14.84	31.95	46.78	-7.22	54.00	110	215	Average
3		2410.750	70.76	32.03	102.78	N/A	N/A	110	215	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 8_ANT 0+1	Test Voltage	AC 120V/60Hz

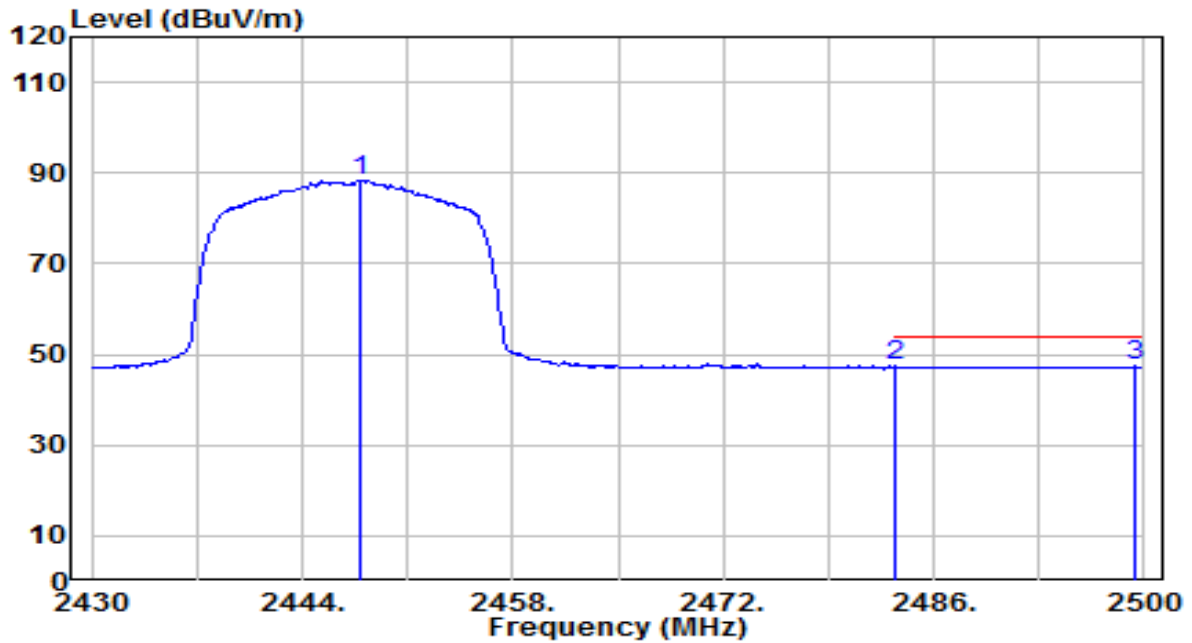


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2448.060	66.66	32.17	98.82	N/A	N/A	140	270	Peak
2	2483.500	26.91	32.30	59.21	-14.79	74.00	140	270	Peak
3	* 2490.340	28.48	32.32	60.81	-13.19	74.00	140	270	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 8_ANT 0+1	Test Voltage	AC 120V/60Hz

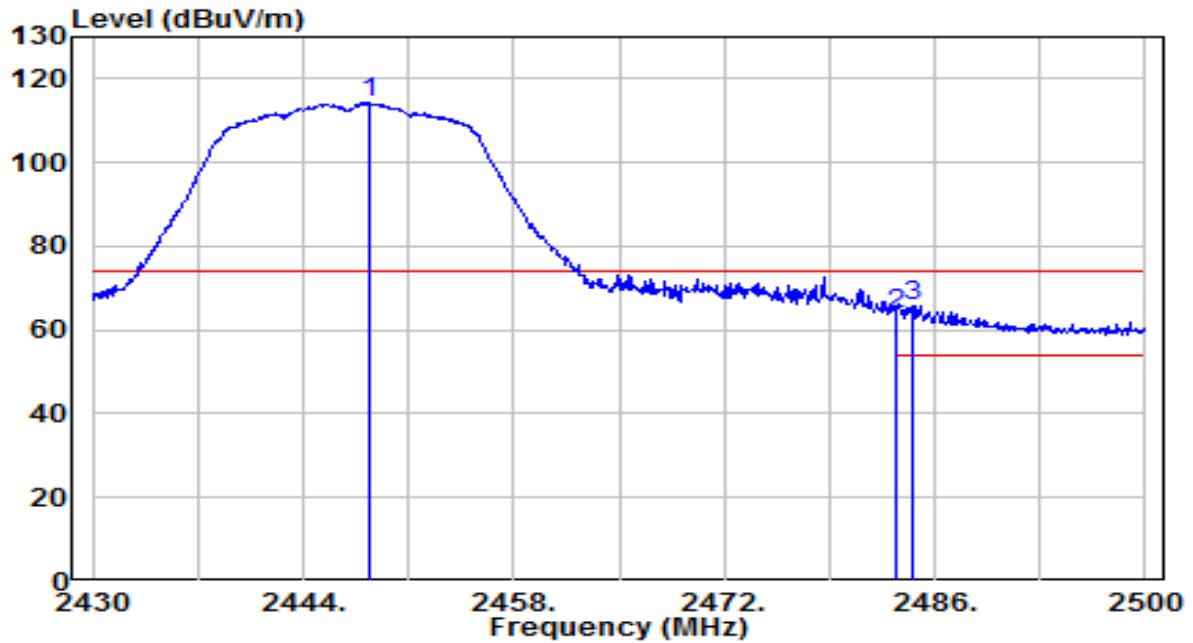


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2447.850	56.22	32.16	88.38	N/A	N/A	140	270	Average
2	2483.500	15.05	32.30	47.35	-6.65	54.00	140	270	Average
3	* 2499.370	15.11	32.36	47.47	-6.53	54.00	140	270	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 8_ANT 0+1	Test Voltage	AC 120V/60Hz

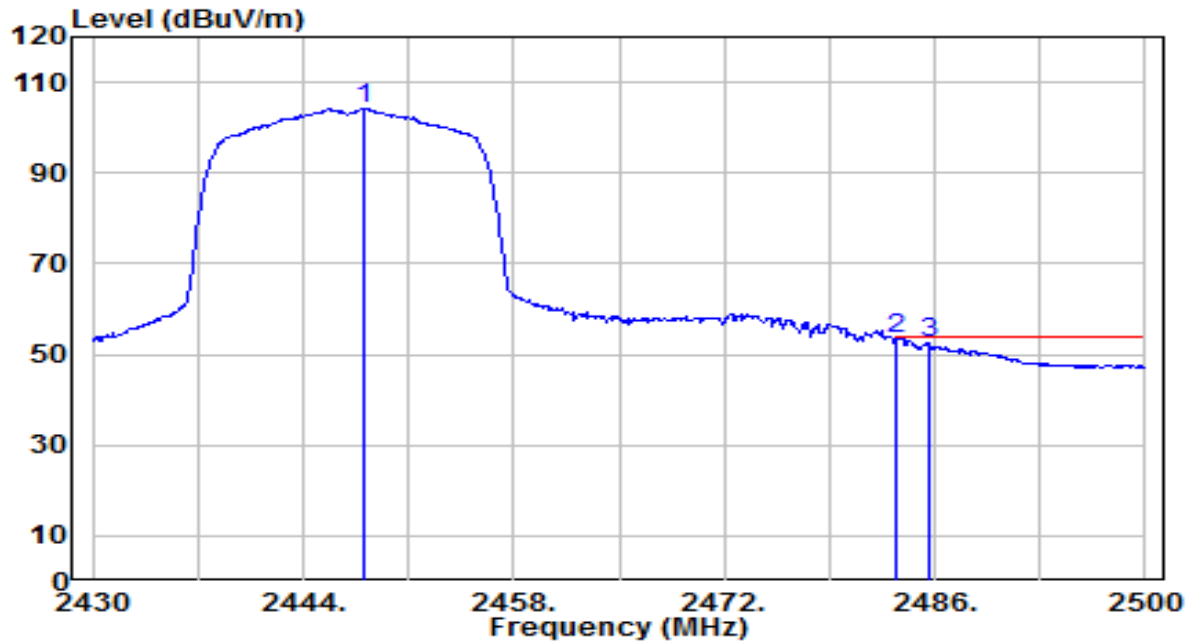


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2448.340	82.04	32.17	114.21	N/A	N/A	150	225	Peak
2	2483.500	31.56	32.30	63.86	-10.14	74.00	150	225	Peak
3	* 2484.600	33.53	32.30	65.84	-8.16	74.00	150	225	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 8_ANT 0+1	Test Voltage	AC 120V/60Hz

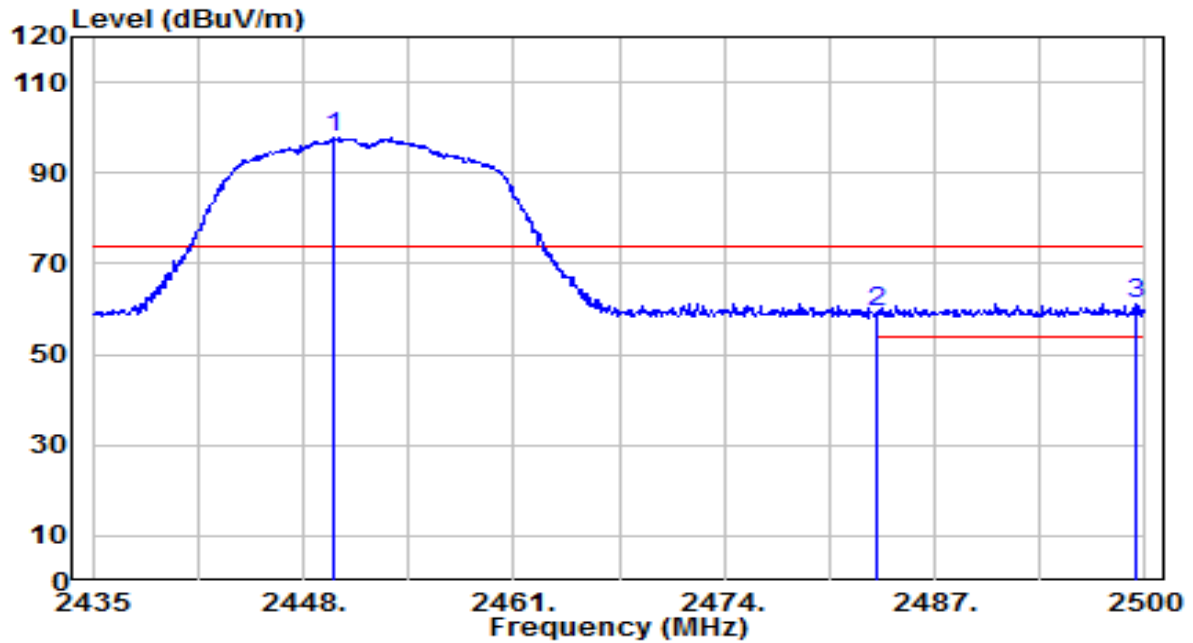


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2448.060	71.97	32.17	104.14	N/A	N/A	150	225	Average
2	*	2483.500	20.94	32.30	53.24	-0.76	54.00	150	225	Average
3		2485.580	20.36	32.31	52.67	-1.33	54.00	150	225	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 9_ANT 0+1	Test Voltage	AC 120V/60Hz

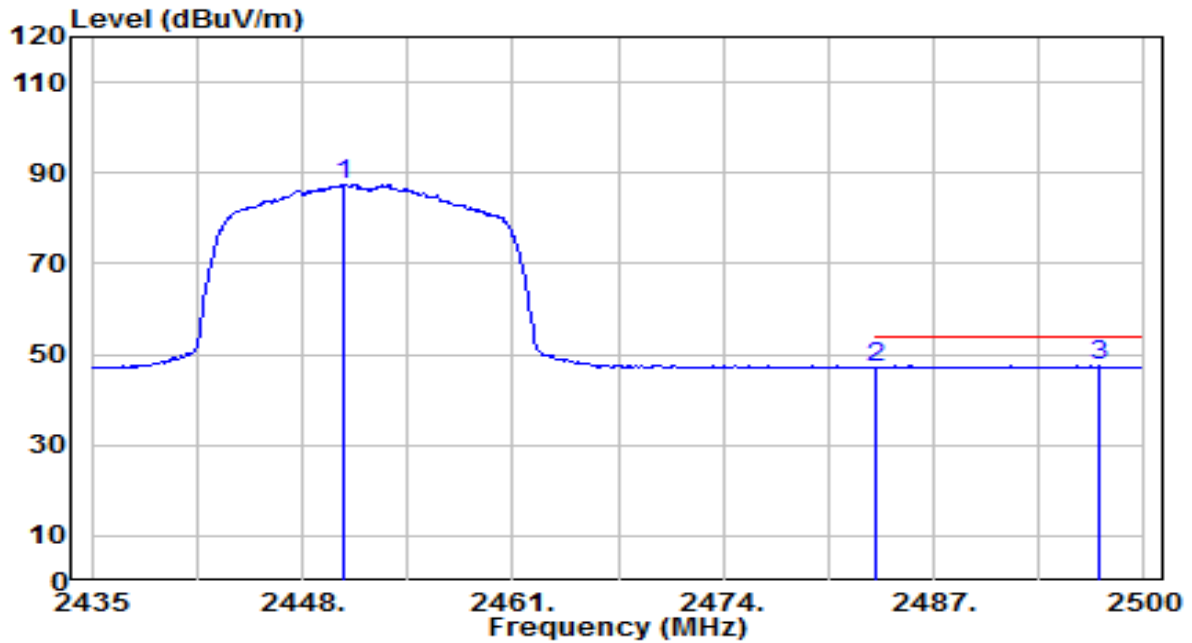


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2449.950	65.46	32.17	97.63	N/A	N/A	140	270	Peak
2	2483.500	26.96	32.30	59.25	-14.75	74.00	140	270	Peak
3	* 2499.350	28.73	32.36	61.09	-12.91	74.00	140	270	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 9_ANT 0+1	Test Voltage	AC 120V/60Hz

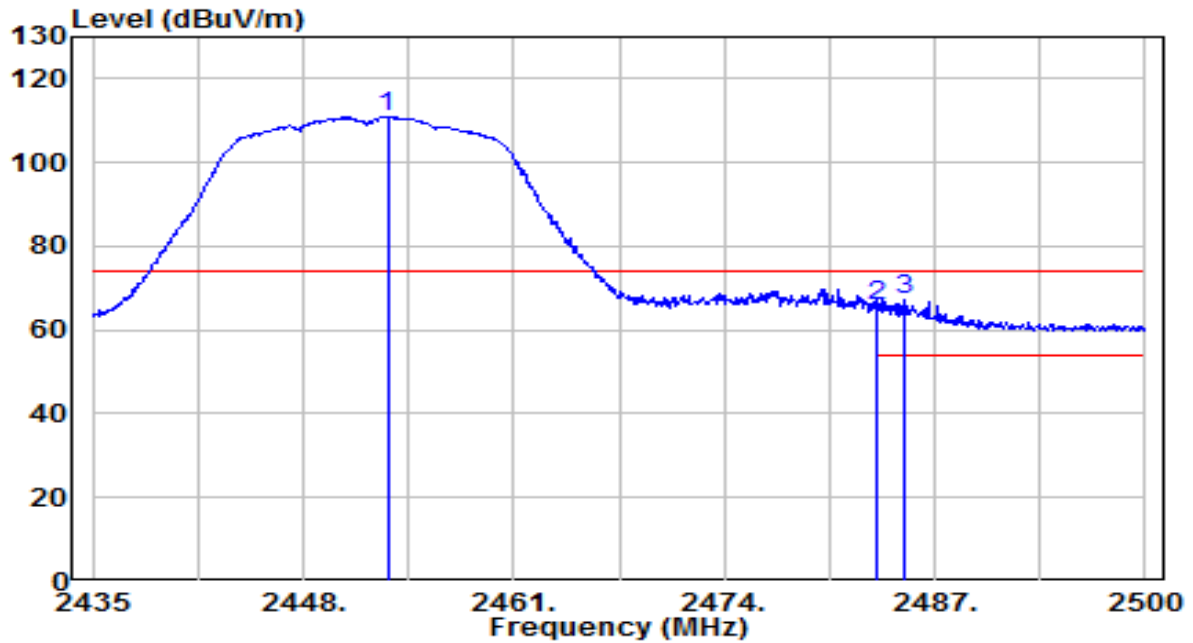


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2450.600	55.26	32.18	87.43	N/A	N/A	140	270	Average
2	2483.500	14.78	32.30	47.07	-6.93	54.00	140	270	Average
3	* 2497.270	15.01	32.35	47.36	-6.64	54.00	140	270	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 9_ANT 0+1	Test Voltage	AC 120V/60Hz

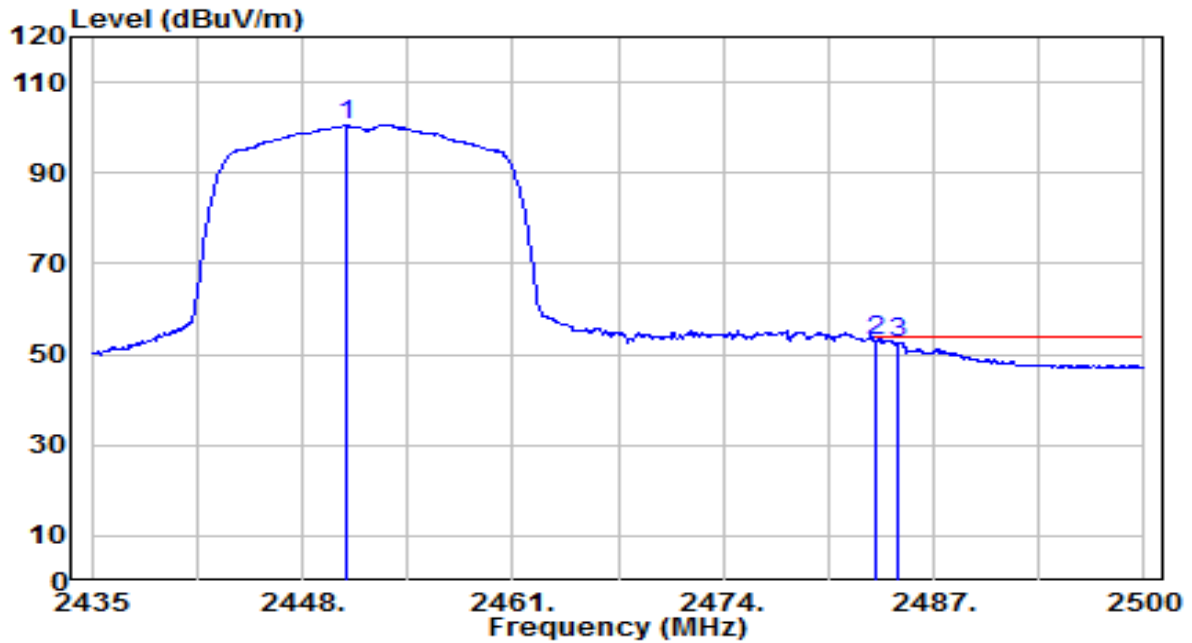


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2453.200	78.90	32.18	111.09	N/A	N/A	150	225	Peak
2	*	2483.500	33.56	32.30	65.86	-8.14	74.00	150	225	Peak
3		2485.050	34.91	32.30	67.21	-6.79	74.00	150	225	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 9_ANT 0+1	Test Voltage	AC 120V/60Hz

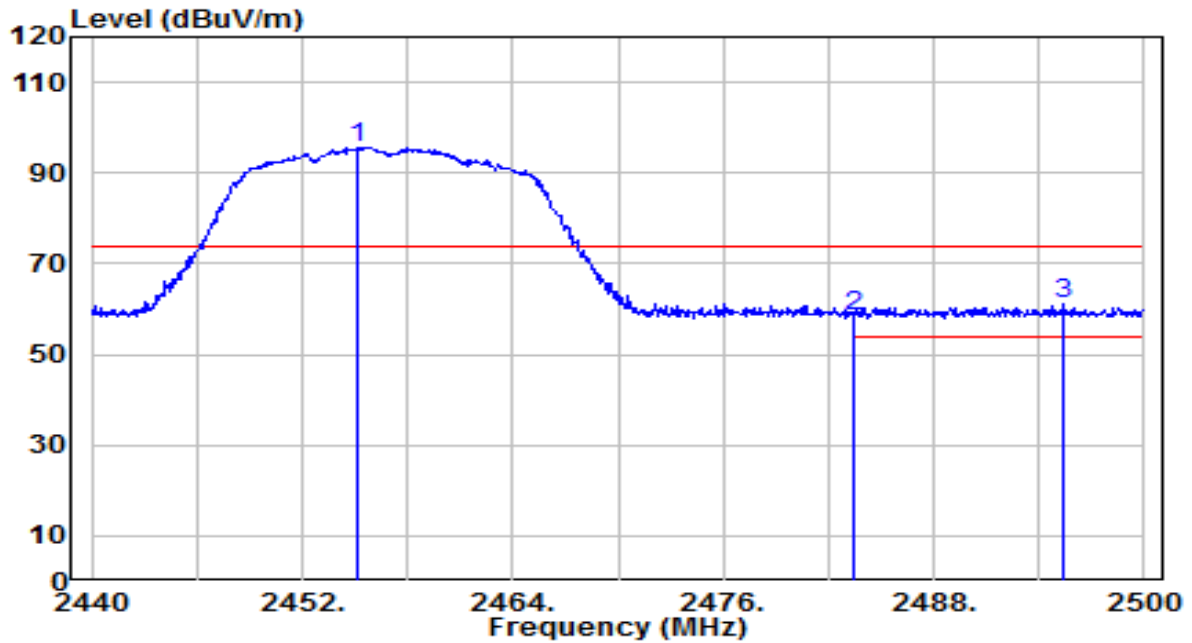


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2450.795	68.43	32.18	100.61	N/A	N/A	150	225	Average
2	*	2483.500	20.78	32.30	53.07	-0.93	54.00	150	225	Average
3		2484.790	20.31	32.30	52.62	-1.38	54.00	150	225	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 10_ANT 0+1	Test Voltage	AC 120V/60Hz

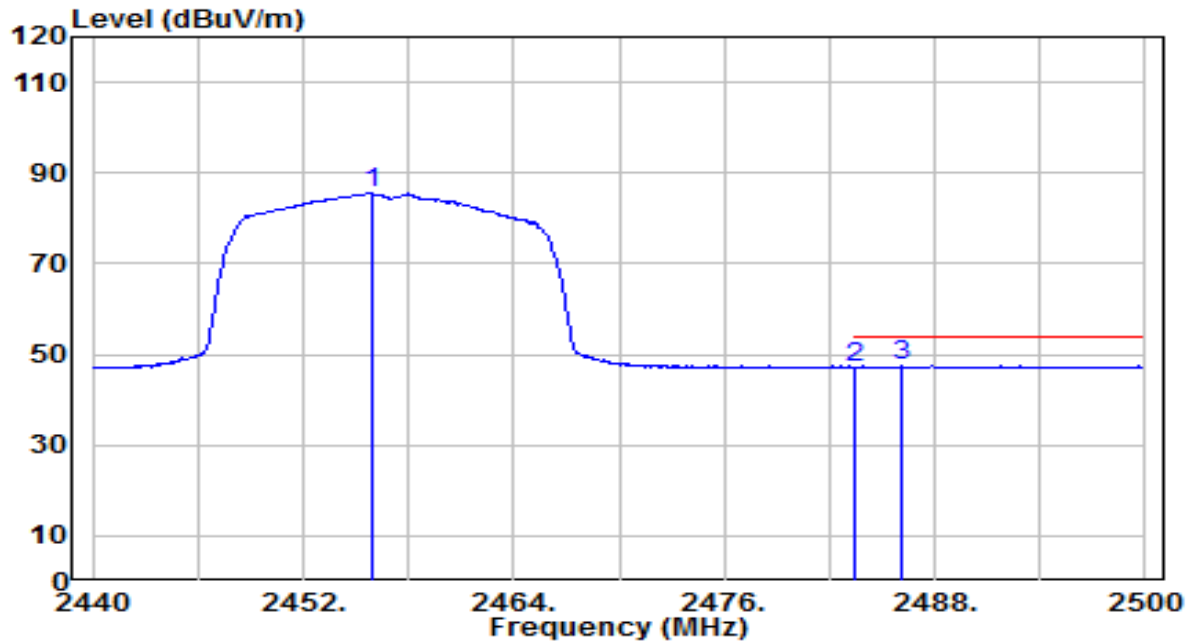


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2455.180	63.49	32.19	95.69	N/A	N/A	140	270	Peak
2		2483.500	26.15	32.30	58.45	-15.55	74.00	140	270	Peak
3		2495.440	28.57	32.34	60.91	-13.09	74.00	140	270	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 10_ANT 0+1	Test Voltage	AC 120V/60Hz

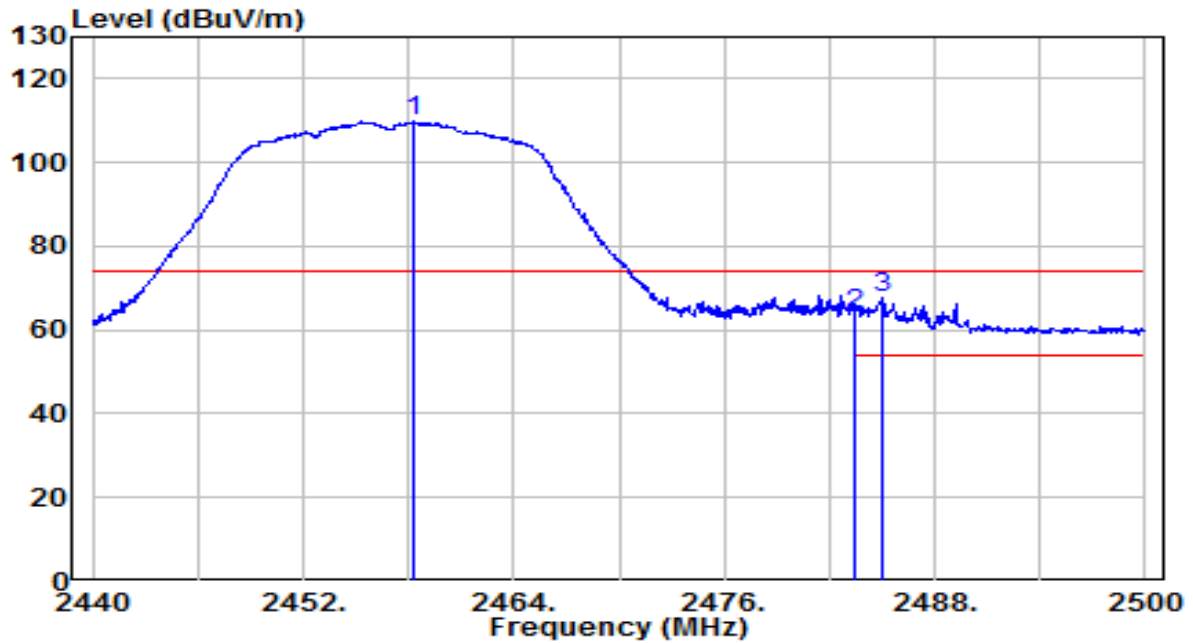


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2455.900	53.61	32.20	85.80	N/A	N/A	140	270	Average
2	2483.500	14.91	32.30	47.21	-6.79	54.00	140	270	Average
3	* 2486.140	15.11	32.31	47.42	-6.58	54.00	140	270	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 10_ANT 0+1	Test Voltage	AC 120V/60Hz

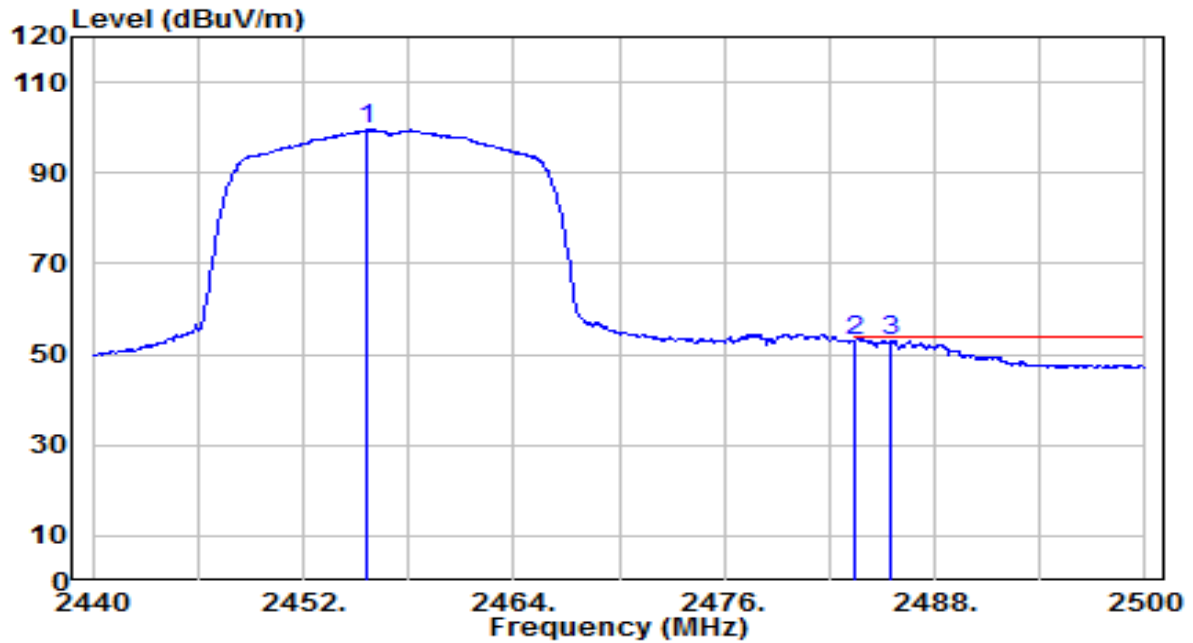


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2458.240	77.65	32.20	109.86	N/A	N/A	150	225	Peak
2	2483.500	31.63	32.30	63.93	-10.07	74.00	150	225	Peak
3	* 2485.000	35.52	32.30	67.82	-6.18	74.00	150	225	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 10_ANT 0+1	Test Voltage	AC 120V/60Hz

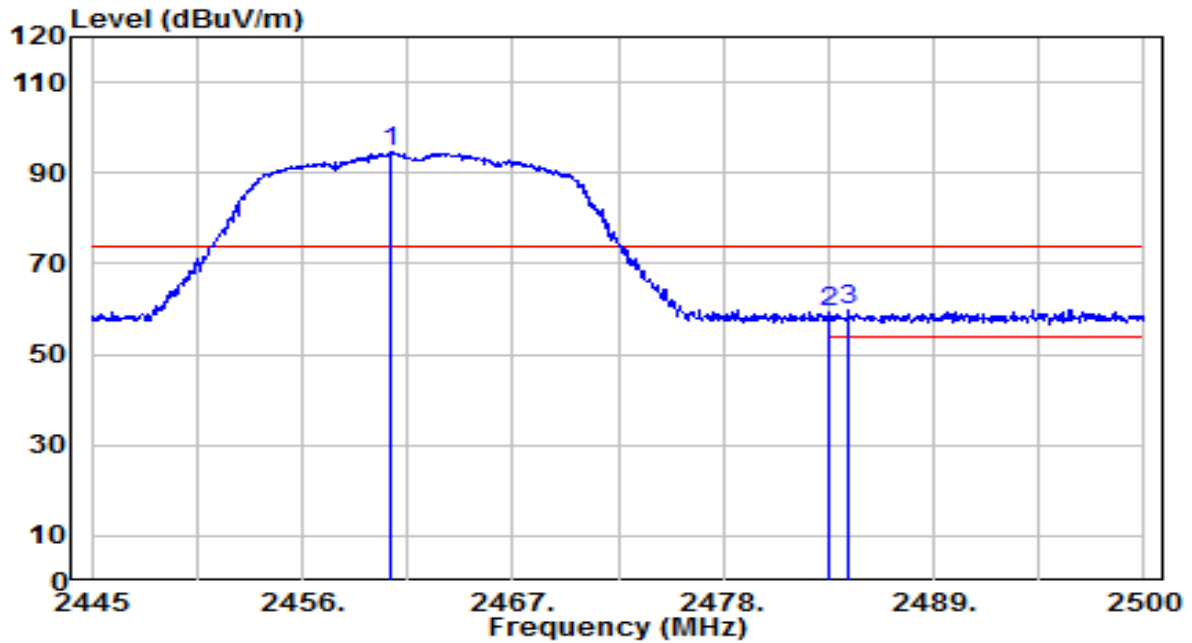


No		Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2455.600	67.41	32.19	99.60	N/A	N/A	150	225	Average
2	*	2483.500	20.84	32.30	53.14	-0.86	54.00	150	225	Average
3		2485.540	20.75	32.31	53.06	-0.94	54.00	150	225	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

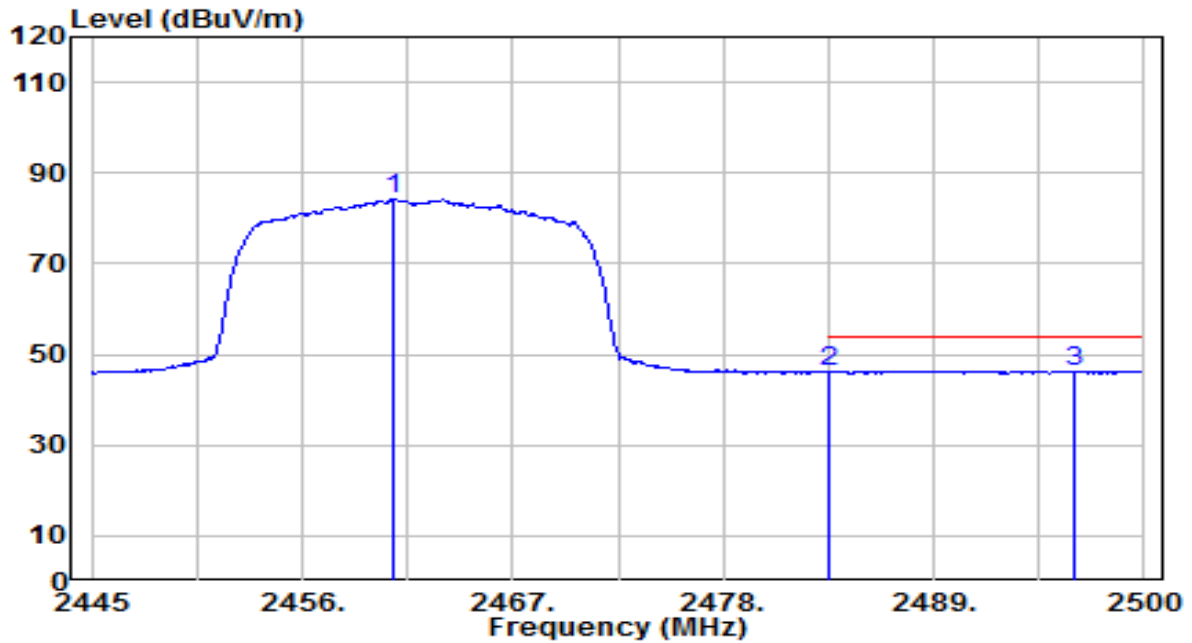


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2460.620	62.33	32.21	94.54	N/A	N/A	140	270	Peak
2	2483.500	27.17	32.30	59.47	-14.53	74.00	140	270	Peak
3	* 2484.545	27.68	32.30	59.98	-14.02	74.00	140	270	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

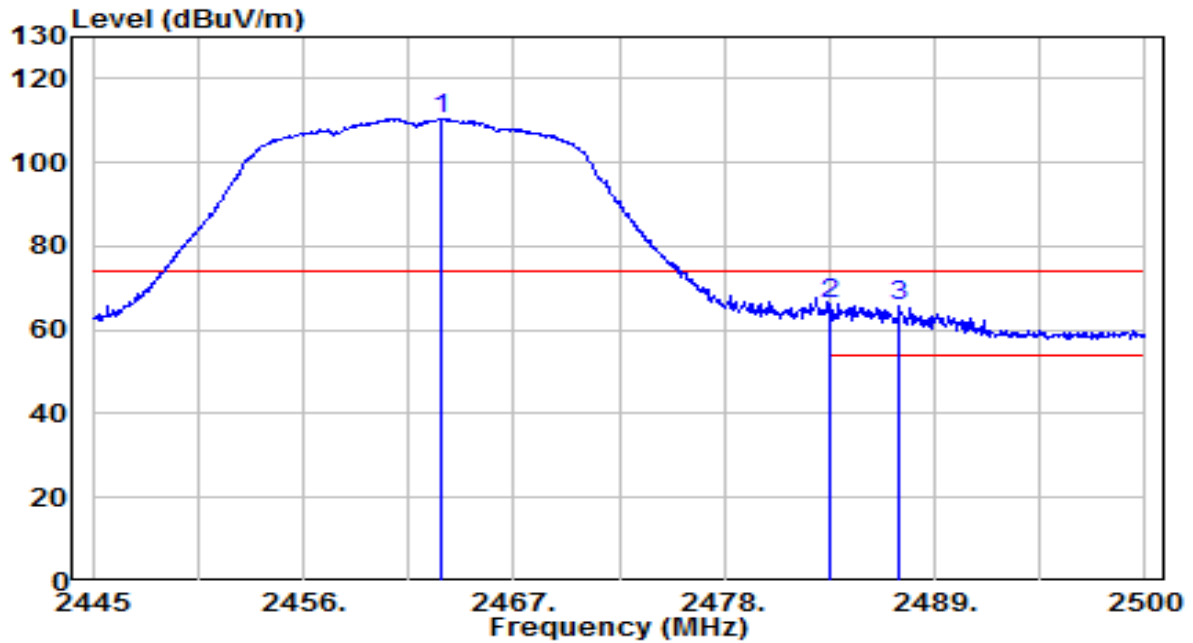


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2460.785	52.10	32.21	84.31	N/A	N/A	140	270	Average
2	2483.500	13.89	32.30	46.19	-7.81	54.00	140	270	Average
3	* 2496.370	14.07	32.35	46.41	-7.59	54.00	140	270	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

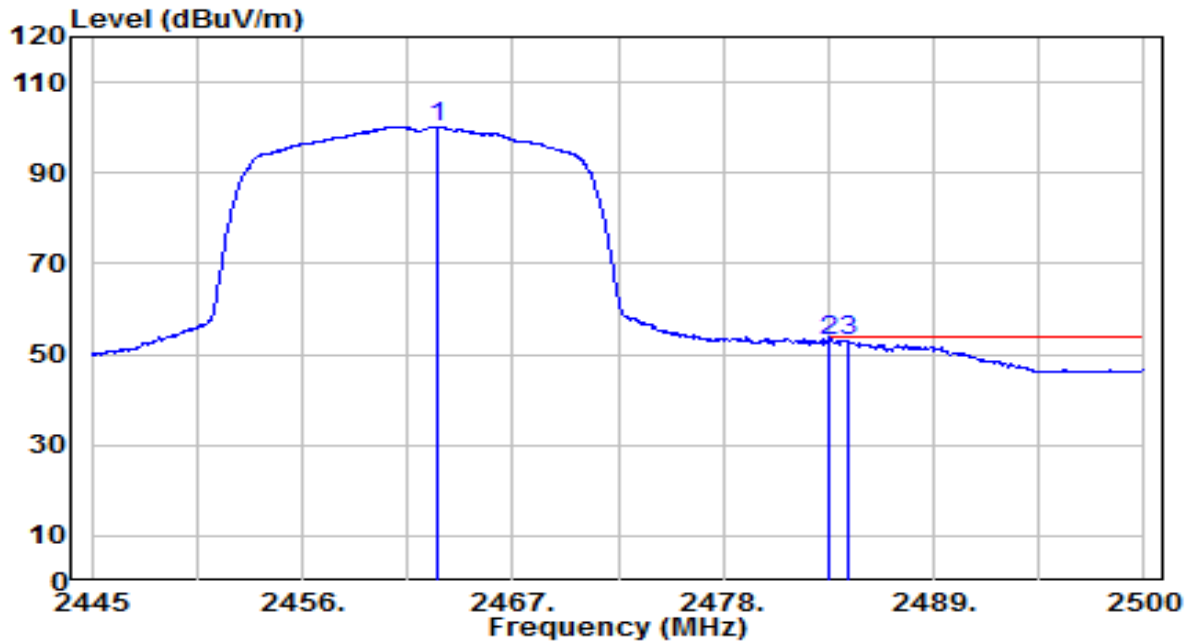


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2463.260	78.34	32.22	110.56	N/A	N/A	150	225	Peak
2	* 2483.500	33.94	32.30	66.24	-7.76	74.00	150	225	Peak
3	2487.185	33.59	32.31	65.90	-8.10	74.00	150	225	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

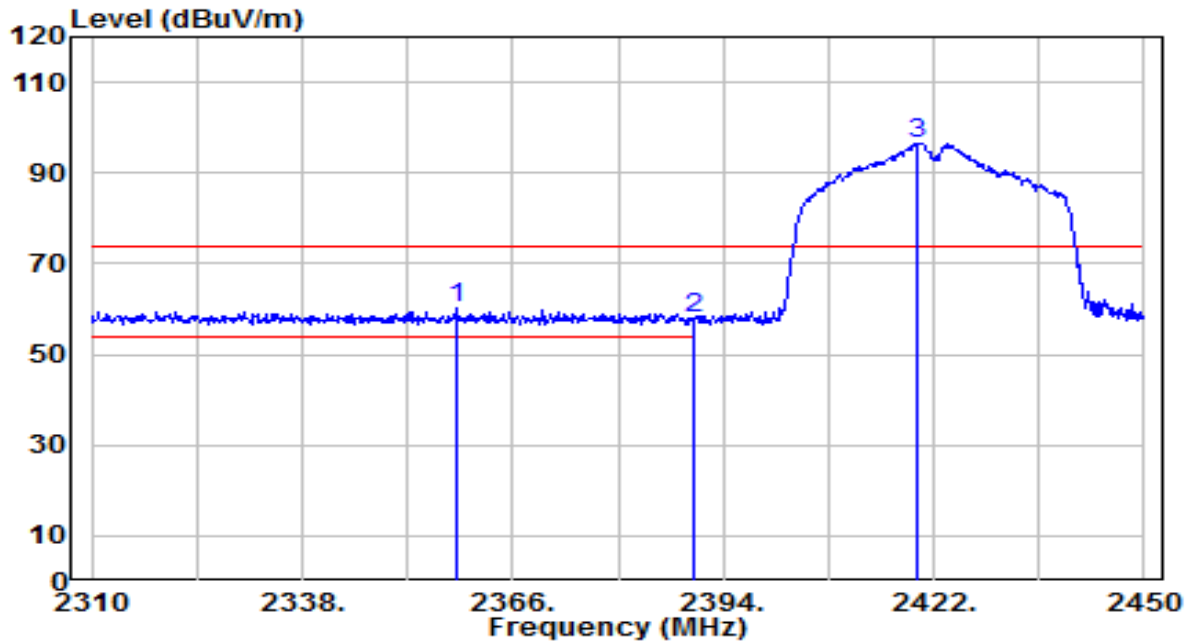


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2463.095	68.03	32.22	100.25	N/A	N/A	150	225	Average
2	*	2483.500	20.80	32.30	53.10	-0.90	54.00	150	225	Average
3		2484.490	20.55	32.30	52.85	-1.15	54.00	150	225	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0+1	Test Voltage	AC 120V/60Hz

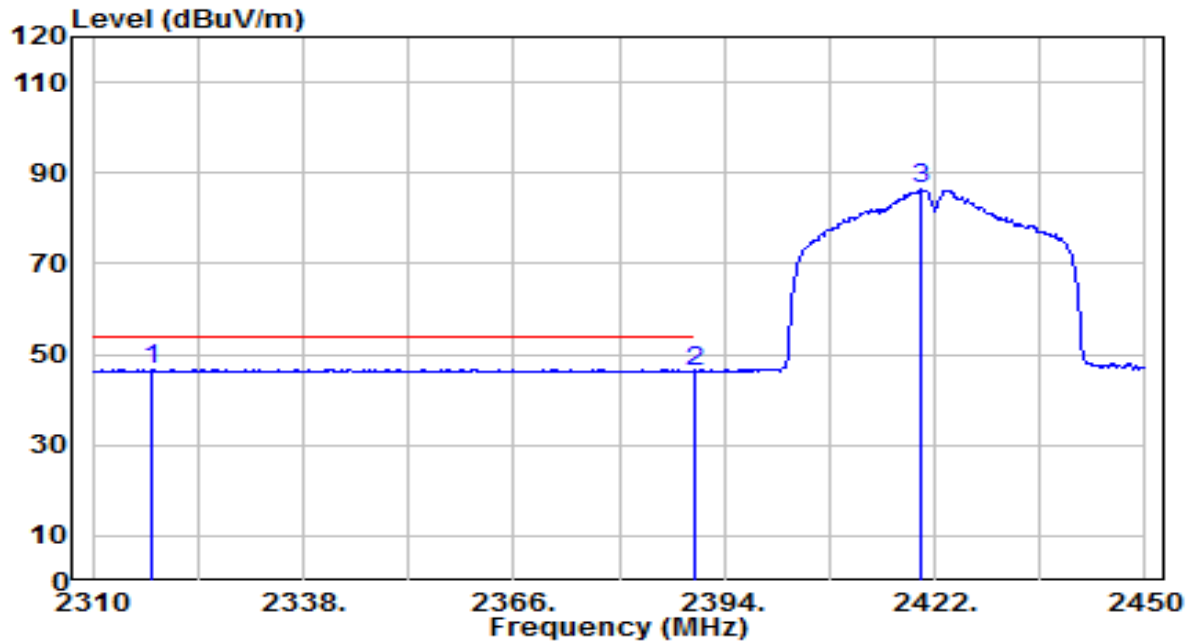


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2358.720	28.20	31.83	60.03	-13.97	74.00	110	105	Peak
2		2390.000	25.93	31.95	57.88	-16.12	74.00	110	105	Peak
3		2419.900	64.58	32.06	96.64	N/A	N/A	110	105	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0+1	Test Voltage	AC 120V/60Hz

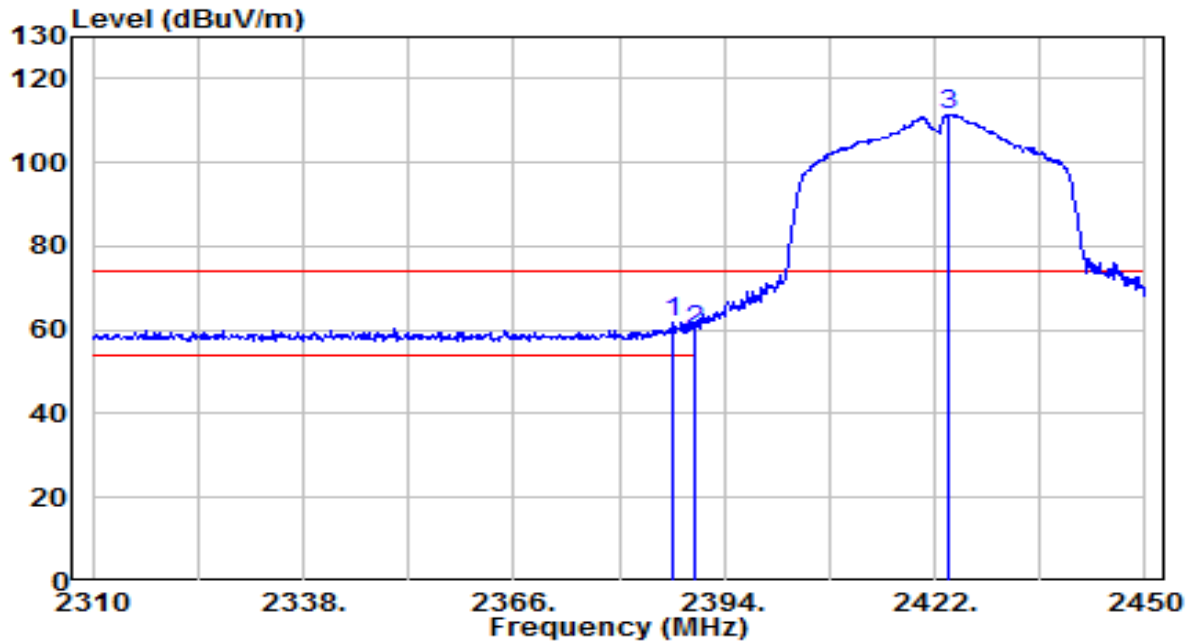


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2317.980	15.05	31.68	46.73	-7.27	54.00	110	105	Average
2		2390.000	14.40	31.95	46.34	-7.66	54.00	110	105	Average
3		2420.320	54.35	32.06	86.41	N/A	N/A	110	105	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0+1	Test Voltage	AC 120V/60Hz

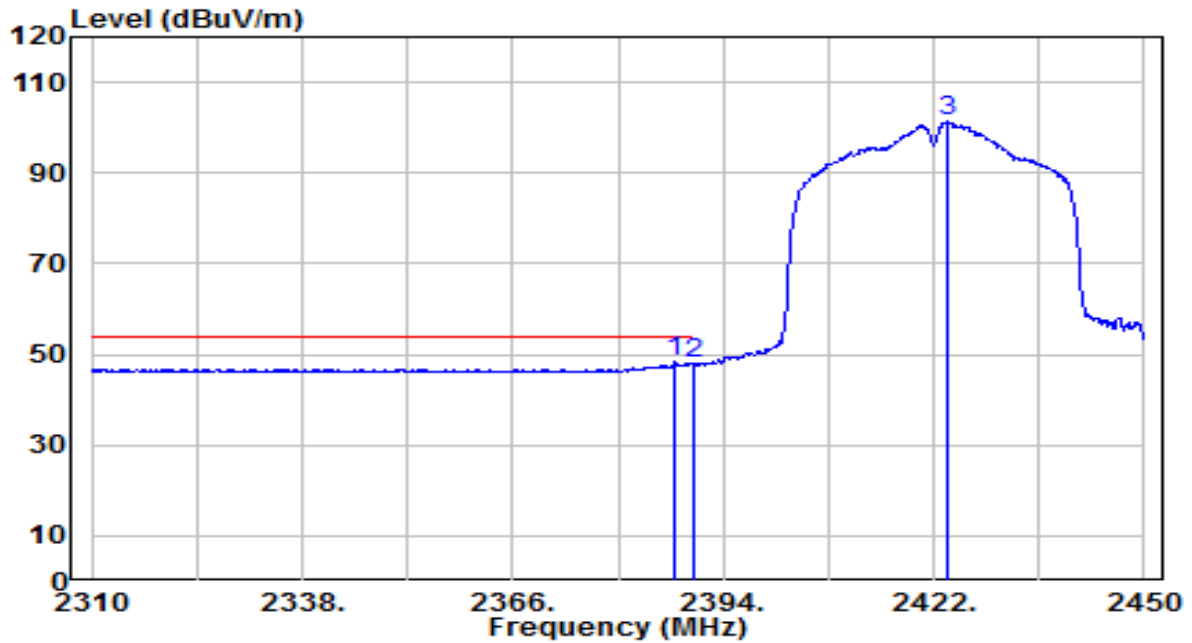


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2387.000	30.10	31.94	62.04	-11.96	74.00	160	225	Peak
2		2390.000	28.01	31.95	59.96	-14.04	74.00	160	225	Peak
3		2423.680	79.29	32.07	111.36	N/A	N/A	160	225	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0+1	Test Voltage	AC 120V/60Hz

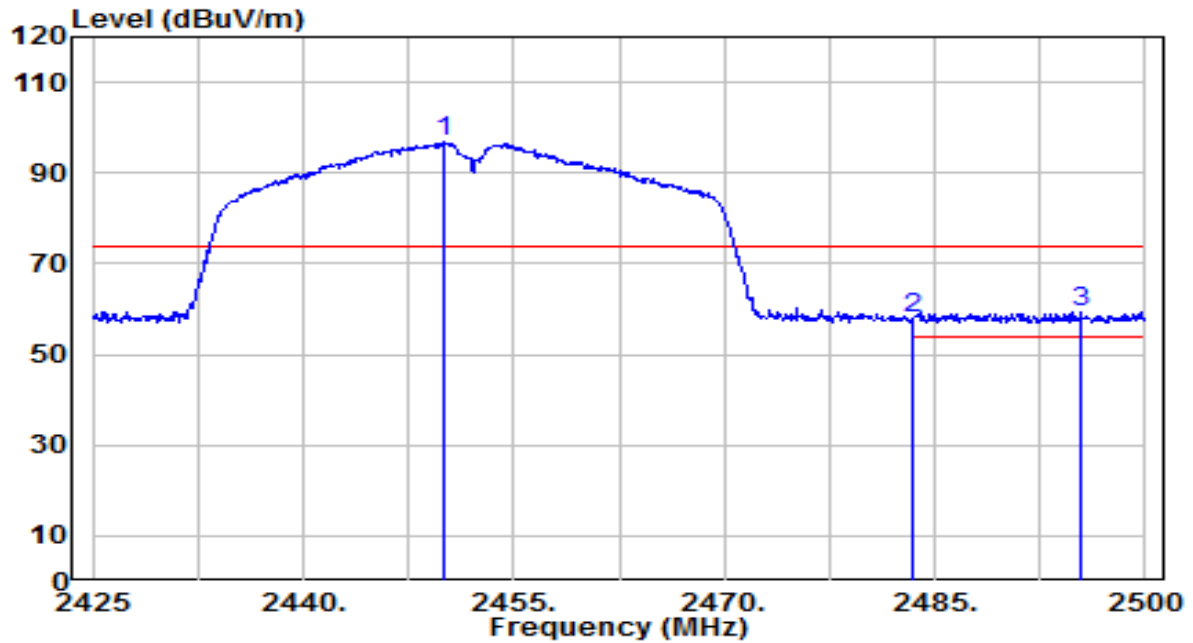


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2387.560	16.37	31.94	48.31	-5.69	54.00	160	225	Average
2		2390.000	16.07	31.95	48.02	-5.98	54.00	160	225	Average
3		2423.680	69.22	32.07	101.30	N/A	N/A	160	225	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 9_ANT 0+1	Test Voltage	AC 120V/60Hz

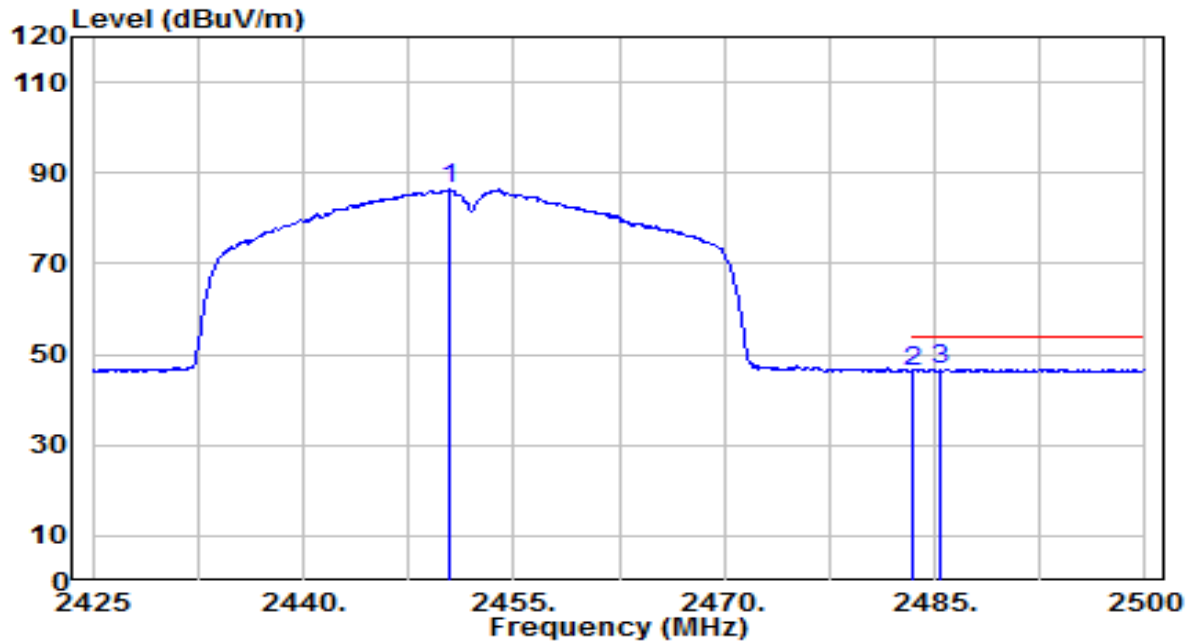


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2449.975	64.62	32.17	96.79	N/A	N/A	120	275	Peak
2	2483.500	25.65	32.30	57.95	-16.05	74.00	120	275	Peak
3	* 2495.425	27.18	32.34	59.52	-14.48	74.00	120	275	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 9_ANT 0+1	Test Voltage	AC 120V/60Hz

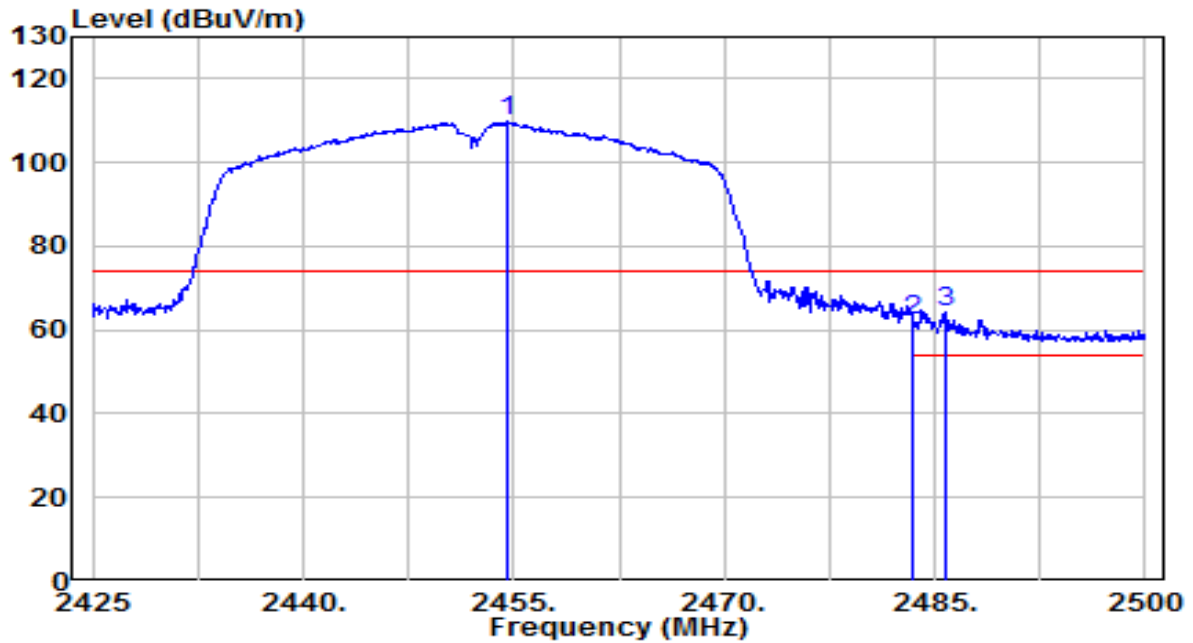


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2450.350	54.37	32.17	86.54	N/A	N/A	120	275	Average
2	2483.500	13.94	32.30	46.24	-7.76	54.00	120	275	Average
3	* 2485.450	14.45	32.31	46.76	-7.24	54.00	120	275	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 9_ANT 0+1	Test Voltage	AC 120V/60Hz

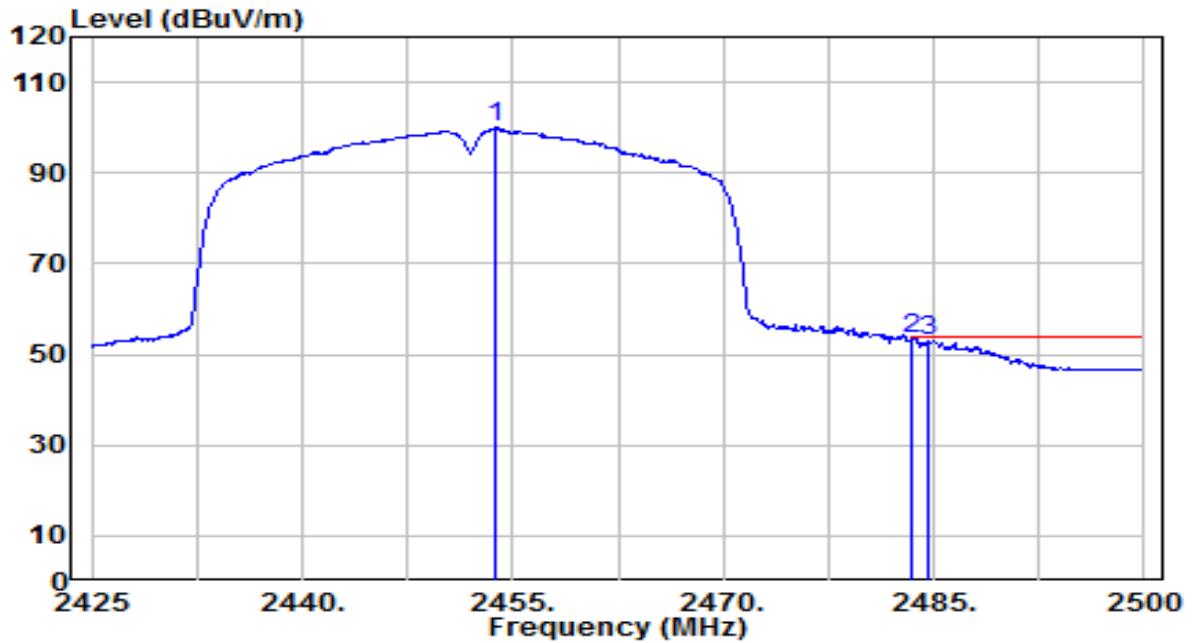


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2454.475	77.46	32.19	109.65	N/A	N/A	165	225	Peak
2	2483.500	30.04	32.30	62.33	-11.67	74.00	165	225	Peak
3	* 2485.750	31.73	32.31	64.04	-9.96	74.00	165	225	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	BBHA 9120D	Temp. / Humidity	25°C /60%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 9_ANT 0+1	Test Voltage	AC 120V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2453.725	67.76	32.19	99.95	N/A	N/A	165	225	Average
2	*	2483.500	21.19	32.30	53.49	-0.51	54.00	165	225	Average
3		2484.550	20.87	32.30	53.17	-0.83	54.00	165	225	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

7.8. AC Conducted Emissions Measurement

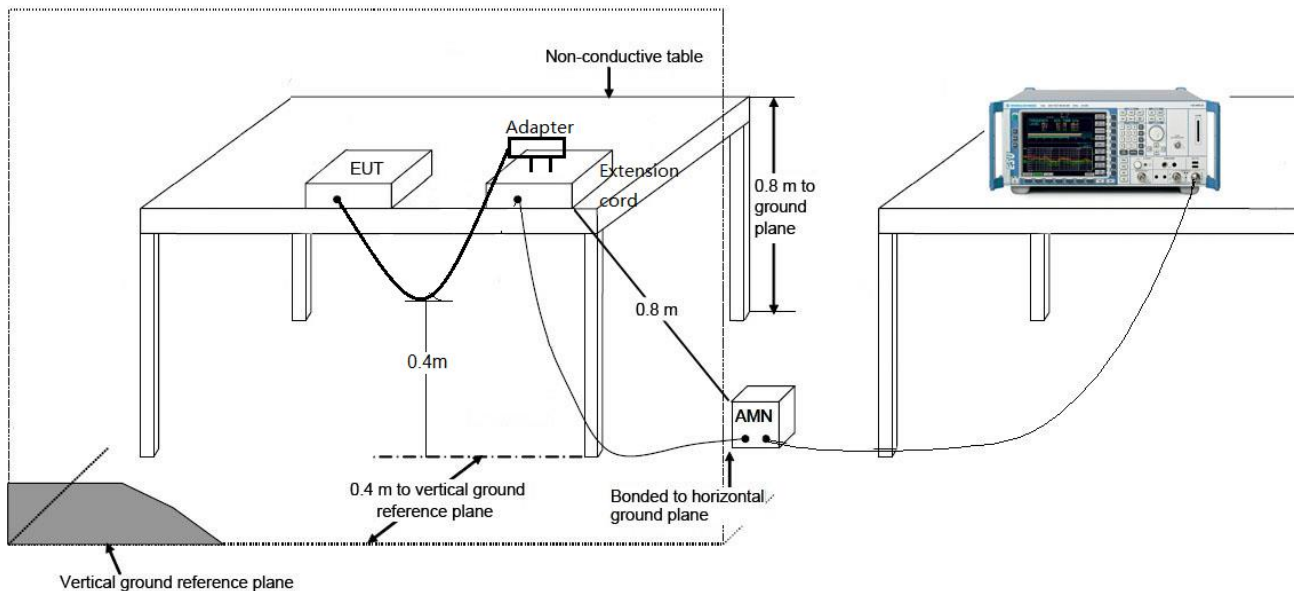
7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

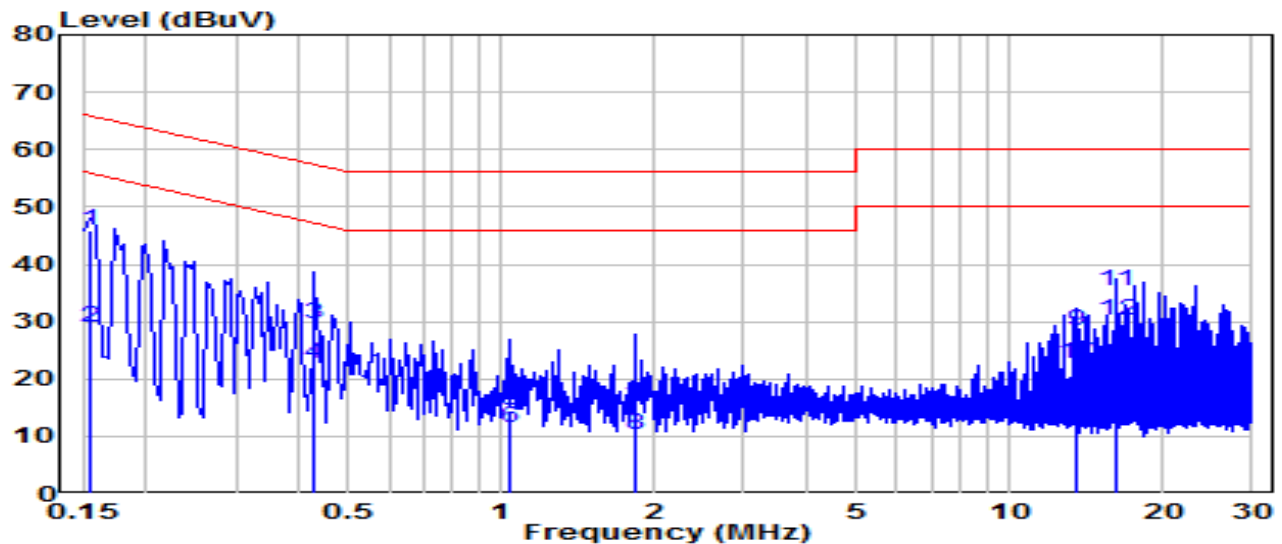
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



7.8.3.Test Result

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	23.8°C /59%
Polarity	Line1	Site / Test Engineer	SR2 / Ryan
Test Mode	802.11n-20MHz_TX_CH6_Ant 0+1	Test Voltage	AC 120V/60Hz

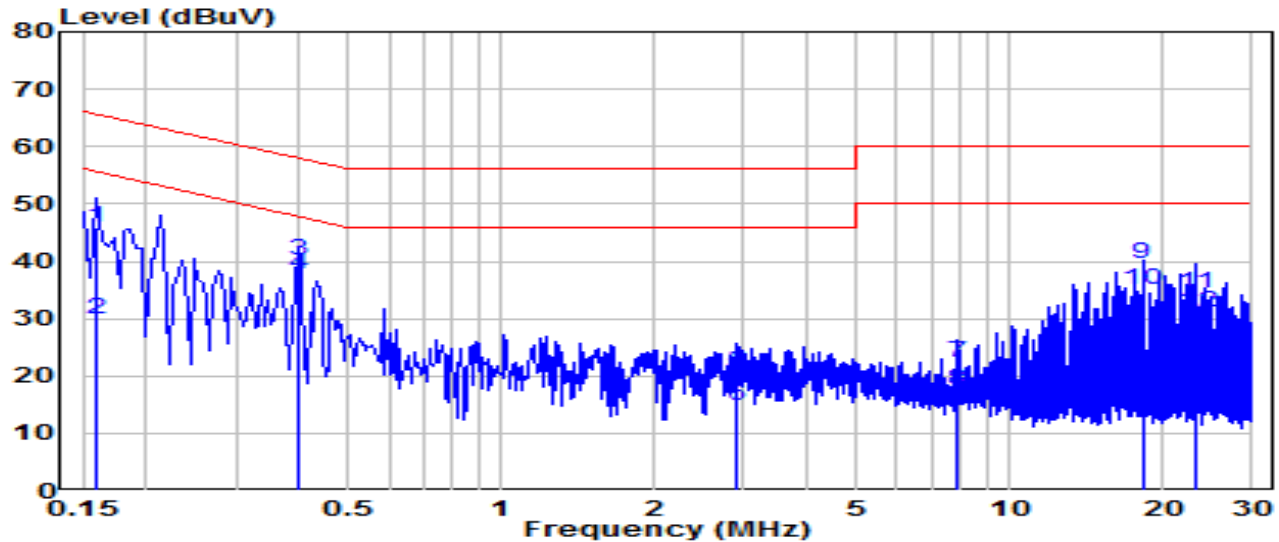


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	*	0.154	36.30	9.63	45.93	-19.83	65.75	QP
2	*	0.154	19.29	9.63	28.92	-26.83	55.75	Average
3		0.429	19.99	9.65	29.64	-27.63	57.27	QP
4		0.429	13.10	9.65	22.75	-24.52	47.27	Average
5		1.032	4.68	9.68	14.36	-41.64	56.00	QP
6		1.032	1.80	9.68	11.48	-34.52	46.00	Average
7		1.842	5.07	9.70	14.77	-41.23	56.00	QP
8		1.842	0.42	9.70	10.12	-35.88	46.00	Average
9		13.478	18.43	9.89	28.32	-31.68	60.00	QP
10		13.478	12.84	9.89	22.73	-27.27	50.00	Average
11		16.227	25.55	9.91	35.46	-24.54	60.00	QP
12		16.227	20.21	9.91	30.12	-19.88	50.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

EUT	4G LTE N300 Wi-Fi Router	Date of Test	2024-12-12
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	23.8°C /59%
Polarity	Neutral	Site / Test Engineer	SR2 / Ryan
Test Mode	802.11n-20MHz_TX_CH6_Ant 0+1	Test Voltage	AC 120V/60Hz



No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.159	36.19	9.63	45.82	-19.70	65.52	QP
2	0.159	20.17	9.63	29.80	-25.72	55.52	Average
3	* 0.397	30.37	9.64	40.02	-17.89	57.91	QP
4	* 0.397	27.99	9.64	37.63	-10.27	47.91	Average
5	2.890	10.91	9.72	20.63	-35.37	56.00	QP
6	2.890	5.21	9.72	14.93	-31.07	46.00	Average
7	7.921	12.52	9.84	22.35	-37.65	60.00	QP
8	7.921	7.64	9.84	17.47	-32.53	50.00	Average
9	18.243	29.49	9.98	39.47	-20.53	60.00	QP
10	18.243	24.91	9.98	34.88	-15.12	50.00	Average
11	23.125	24.53	10.01	34.54	-25.46	60.00	QP
12	23.125	21.07	10.01	31.08	-18.92	50.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

8. CONCLUSION

The data collected relate only the item(s) tested and show that the device is compliance with Part 15C of the FCC Rules.

Appendix A : Test Setup Photograph

Refer to “2410TWL802-UT” file.

Appendix B : External Photograph

Refer to “2410TWL802-UE” file.

Appendix C : Internal Photograph

Refer to “2410TWL802-UI” file.

_____ The End _____