



MEASUREMENT REPORT

FCC ID : WIYV3CT335001
IC ID : 27350-V3CT335001
APPLICANT : CASTLES TECHNOLOGY CO., LTD.

Application Type : Certification
Product : POS Terminal
Model No. : V3CT3

Trademark : 

FCC Classification : (DTS) Digital Transmission System

FCC Rule Part(s) : Part 15.247

ISED Standard : RSS-247 Issue 2

Test Procedure(s) : ANSI C63.10-2013

Received Date : November 28, 2022

Test Date : November 29 ~ December 8, 2022

Tested By : 
(Peter Syu)

Reviewed By : 
(Paddy Chen)

Approved By : 
(Chenz Ker)



The test results only relate 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. 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
2211TW8702-U2	1.0	Original Report	2022-12-21	

CONTENTS

Description	Page
§2.1033 General Information	5
1. INTRODUCTION	6
1.1. Scope.....	6
1.2. MRT Test Location	6
2. PRODUCT INFORMATION	7
2.1. Equipment Description	7
2.2. Working Frequencies for this Report	8
2.3. Test Mode	9
2.4. Test Software	9
2.5. Applied Standards.....	9
2.6. Test Configuration.....	10
2.7. EMI Suppression Device(s)/Modifications	10
2.8. Labeling Requirements	10
3. DESCRIPTION of TEST.....	11
3.1. Evaluation Procedure	11
3.2. AC Line Conducted Emissions	11
3.3. Radiated Emissions	12
4. ANTENNA REQUIREMENTS.....	13
5. TEST EQUIPMENT CALIBRATION DATE	14
6. MEASUREMENT UNCERTAINTY.....	15
7. TEST RESULT	16
7.1. Summary.....	16
7.2. 6dB Bandwidth Measurement	17
7.2.1. Test Limit.....	17
7.2.2. Test Procedure used	17
7.2.3. Test Setting	17
7.2.4. Test Setup	17
7.2.5. Test Result	18
7.3. Output Power Measurement.....	24
7.3.1. Test Limit.....	24
7.3.2. Test Procedure Used.....	24
7.3.3. Test Setting	24
7.3.4. Test Setup	24
7.3.5. Test Result of Output Power	25
7.4. Power Spectral Density Measurement	26
7.4.1. Test Limit.....	26
7.4.2. Test Procedure Used.....	26
7.4.3. Test Setting	26
7.4.4. Test Setup	26
7.4.5. Test Result	27

7.5.	Out-of-Band Spurious Emissions Emissions Measurement	30
7.5.1.	Test Limit	30
7.5.2.	Test Procedure Used	30
7.5.3.	Test Settling	30
7.5.4.	Test Setup	31
7.5.5.	Test Result	32
7.6.	Radiated Spurious Emission Measurement	38
7.6.1.	Test Limit	38
7.6.2.	Test Procedure Used	39
7.6.3.	Test Setting	40
7.6.4.	Test Setup	41
7.6.5.	Test Result	43
7.7.	Radiated Restricted Band Edge Measurement	67
7.7.1.	Test Limit	67
7.7.2.	Test Procedure Used	68
7.7.3.	Test Setting	68
7.7.4.	Test Setup	69
7.7.5.	Test Result	70
7.8.	AC Conducted Emissions Measurement	94
7.8.1.	Test Limit	94
7.8.2.	Test Setup	94
7.8.3.	Test Result	95
8.	CONCLUSION	99

§2.1033 General Information

Applicant	CASTLES TECHNOLOGY CO., LTD.
Applicant Address	6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT, NEW TAIPEI CITY 23143, TAIWAN (R. O. C.)
Manufacturer	CASTLES TECHNOLOGY CO., LTD.
Manufacturer Address	6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT, NEW TAIPEI CITY 23143, TAIWAN (R. O. C.)
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
ISED Standard	RSS-247 Issue 2
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 Taiwan, EU and TELEC Rules.

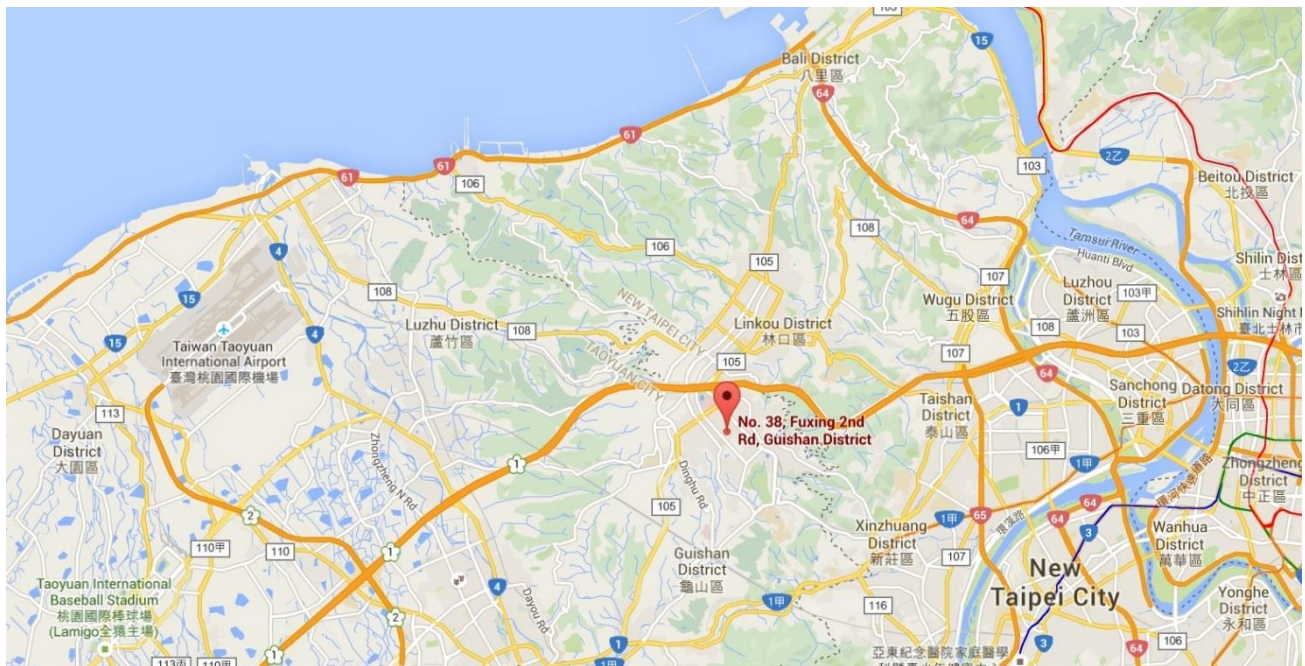
1. INTRODUCTION

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 Industry Canada 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. Equipment Description

Product Name	POS Terminal
Model No.	V3CT3
Trade Mark	
Wi-Fi Specification	802.11b/g/n (1TX / 1RX)
Frequency Range	<u>2.4GHz:</u> For 802.11b/g/n-HT20: 2412 ~ 2462 MHz
Type of Modulation	802.11b: DSSS, DBPSK, DQPSK, CCK 802.11g/n-20: OFDM, BPSK, QPSK, 16QAM, 64QAM
Accessory	
Power Adapter	Brand Name: CASTLES TECHNOLOGY Model: PW04-945A Input: AC 100-240V~0.5A, 50-60Hz Output: DC 9V-4.5A 40.5W

2.2. Working Frequencies for this Report

802.11b/g/n-20

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	--	--

Duty Cycle

Test Mode	Duty Cycle
802.11b	99.70%
802.11g	96.64%
802.11 n-HT20	97.04%

2.3. Test Mode

Test Mode	Mode 1: Transmit by 802.11b
	Mode 2: Transmit by 802.11g
	Mode 3: Transmit by 802.11n-20
	Mode 4: Receiver by 802.11n-20

Note:

1. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.

2.4. Test Software

The test utility software used during testing was “Wi-Fi Test Mode”.

2.5. 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 558074 D01v05r02
- RSS-247 Issue 2
- RSS-GEN Issue 5
- ANSI C63.10-2013

2.6. Test Configuration

This 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.

2.7. EMI Suppression Device(s)/Modifications

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

2.8. 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 for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 558074 D01v05 were used in the measurement of the device.

Deviation from measurement procedure.....None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 9'x4'x3' 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, 50Ω/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 which 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.

Line conducted emissions test results are shown in Section 7.8.

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, which 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.

Radiated emissions test results are shown in Section 7.6 & 7.7 .

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 **POS Terminal**, is permanently attached.
- There are no provisions for connection to an external antenna.

Conclusion:

The EUT unit complies with the requirement of §15.203 , §RSS-GEN 6.8

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	ARISTOTLE	RFA-25-JP322-70-110	Dipole	2.67dBi

5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions – SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Two-Line V-Network	R&S	ENV216	MRTTWA00019	1 year	2023/3/7
Cable	Rosnol	N1C50-RG400- B1C50-500CM	MRTTWE00013	1 year	2023/6/19
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2023/3/9

Radiated Emissions – AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00001	1 year	2022/12/30
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2023/3/9
Active Loop Antenna	Schwarzbeck	FMZB 1519B	MRTTWA00002	1 year	2023/5/24
Broadband Horn antenna	SCHWARZBECK	BBHA 9120D	MRTTWA00003	1 year	2023/3/30
Breitband Hornantenna	Schwarzbeck	BBHA 9170	MRTTWA00004	1 year	2023/3/29
Broadband Amplifier	Schwarzbeck	BBV 9721	MRTTWA00006	1 year	2023/3/30
Broadband Preamplifier	SCHWARZBECK	BBV 9718	MRTTWA00005	1 year	2023/3/30
Cable	HUBERSUHNER	SF106	MRTTWE00010	1 year	2023/5/23
Cable	Rosnol	K1K50-UP0264- K1K50-4M	MRTTWE00012	1 year	2023/6/19

Conducted Test Equipment – SR5

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2023/10/5
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2023/7/19
USB Wideband Power Sensor	KEYSIGHT	U2021XA	MRTTWA00015	1 year	2023/3/16

Test Software

Software	Version	Function
e3	9.160520a	EMI Test Software
EMI	V3	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 $k = 2$.

Conducted Emission- Power Line
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 0.15MHz~30MHz: $\pm 2.53\text{dB}$
Radiated Spurious Emission
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 9kHz~30MHz: $\pm 3.92\text{dB}$ 30MHz~1GHz: $\pm 4.25\text{dB}$ 1GHz~18GHz: $\pm 4.40\text{dB}$ 18GHz~40GHz: $\pm 4.45\text{dB}$
Frequency Error
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 78.4\text{Hz}$
Conducted Power
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% ($U=2U_c(y)$): $\pm 0.82^\circ\text{C}/ \pm 3\%$
DC Voltage
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 0.3\%$

7. TEST RESULT

7.1. Summary

Product Name: POS Terminal

FCC Classification: (DTS) Digital Transmission System

FCC Part Section(s)	ISED Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	RSS-247 5.2 (a)/ RSS-Gen 6.7	6dB Bandwidth	$\geq 500\text{kHz}$	Conducted	Pass	Section 7.2
15.247(b)(3)	RSS-247 5.4 (d)	Output Power	$\leq 30.00\text{dBm}$		Pass	Section 7.3
15.247(e)	RSS-247 5.2 (b)	Power Spectral Density	$\leq 8.00\text{dBm}/3\text{kHz}$		Pass	Section 7.4
15.247(d)	RSS-247 5.5	Out-of-Band Emissions	Conducted $\geq 20\text{dBc}$		Pass	Section 7.5
15.205 15.209	RSS-247 5.5	Spurious Emission	$< \text{FCC 15.209 limits}$	Radiated	Pass	Section 7.6
15.205 15.209	RSS-247 5.5	Band Edge Measurement	$\leq 74\text{dBuV/m(Peak)}$ $\leq 54\text{dBuV/m(Average)}$		Pass	Section 7.7
15.207	RSS-Gen 8.8	AC Conducted Emissions 150kHz - 30MHz	$< \text{FCC 15.207 limits}$	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) 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.
- 3) 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.
- 4) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.

7.2. 6dB Bandwidth Measurement

7.2.1. Test Limit

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

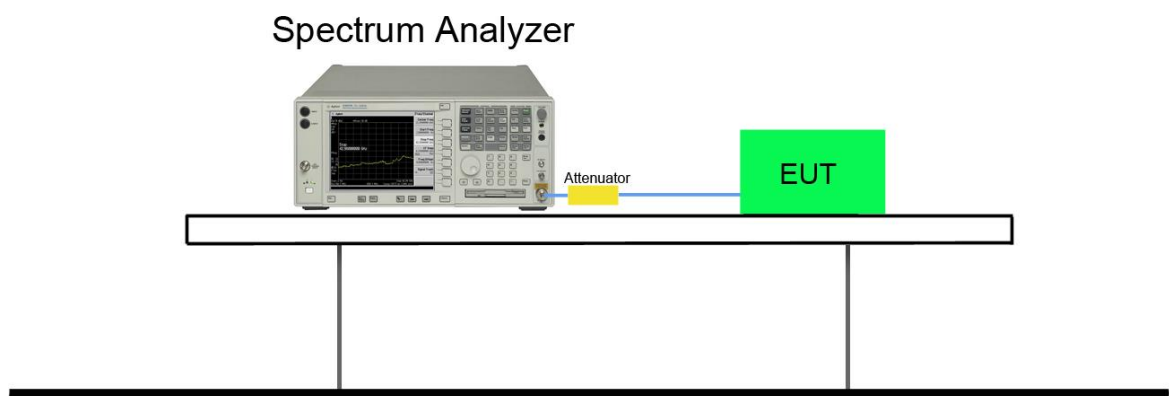
7.2.2. Test Procedure used

ANSI C63.10 - 2013 - Section 6.9.3, 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

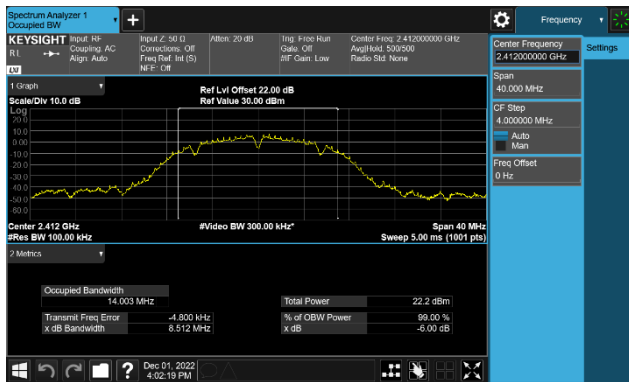


7.2.5. Test Result

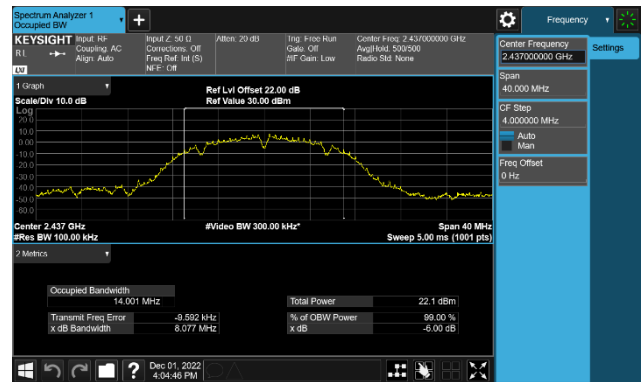
6dB Bandwidth

Test Mode	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	2412	8.512	≥ 0.5	Pass
802.11b	06	2437	8.077	≥ 0.5	Pass
802.11b	11	2462	9.070	≥ 0.5	Pass
802.11g	01	2412	15.130	≥ 0.5	Pass
802.11g	06	2437	15.110	≥ 0.5	Pass
802.11g	11	2462	15.090	≥ 0.5	Pass
802.11n-20M	01	2412	15.130	≥ 0.5	Pass
802.11n-20M	06	2437	15.090	≥ 0.5	Pass
802.11n-20M	11	2462	15.100	≥ 0.5	Pass

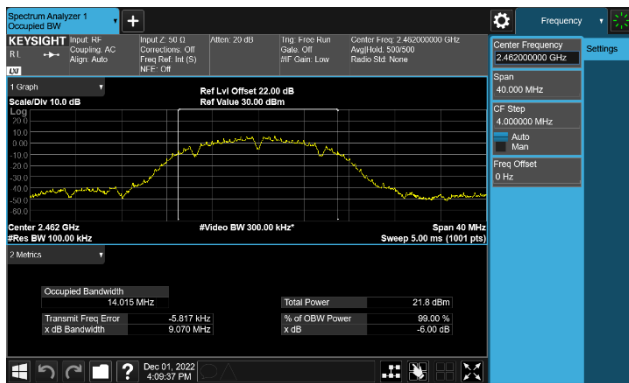
802.11 b CH01 (2412MHz)



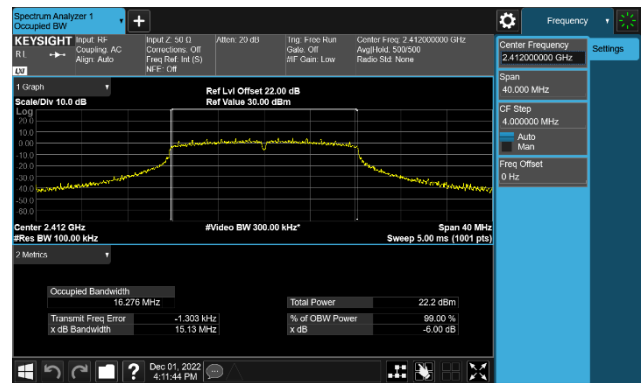
802.11 b CH06 (2437MHz)



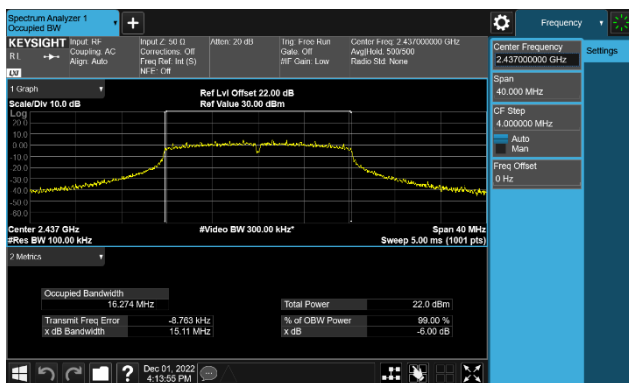
802.11 b CH11 (2462MHz)



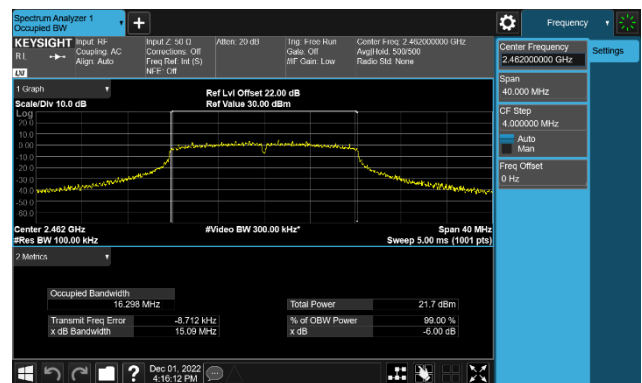
802.11 g CH01 (2412MHz)



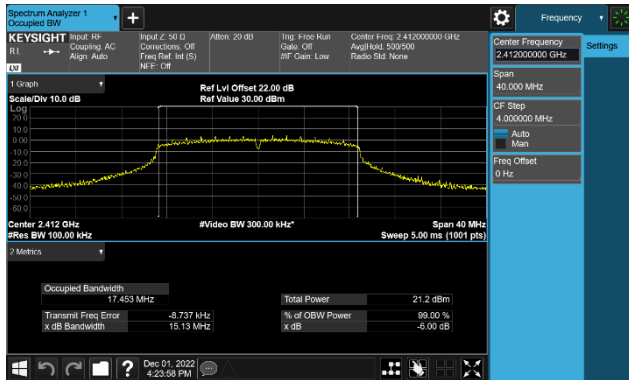
802.11 g CH06 (2437MHz)



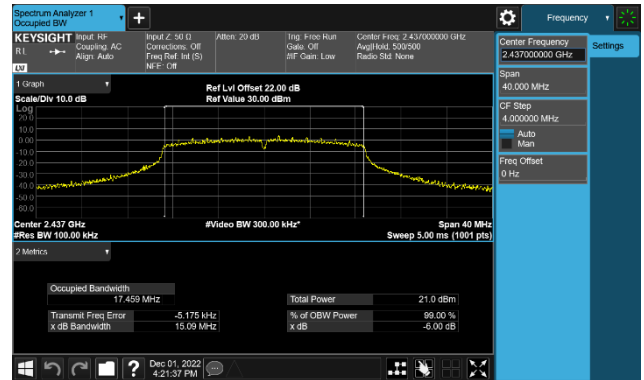
802.11 g CH11 (2462MHz)



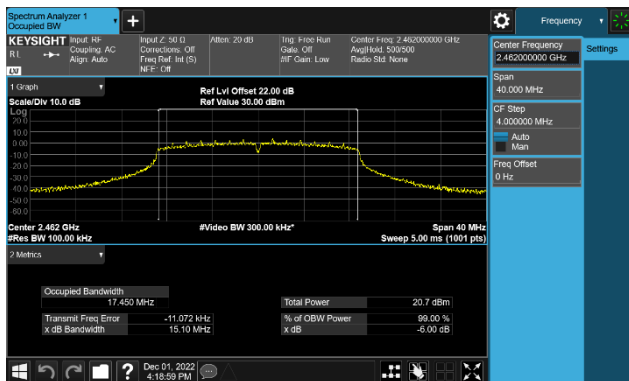
802.11 n-20M CH01 (2412MHz)



802.11 n-20M CH06 (2437MHz)



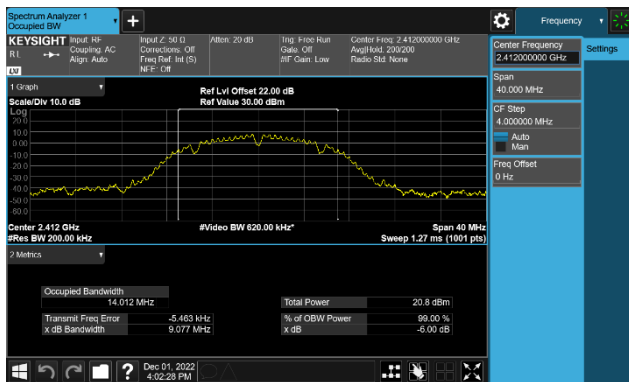
802.11 n-20M CH11 (2462MHz)



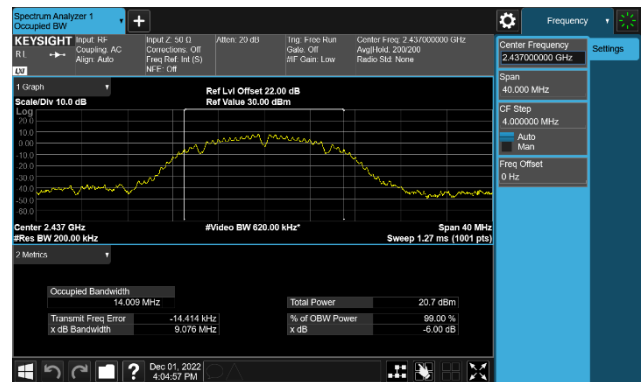
99% Bandwidth

Test Mode	Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	2412	14.012	≥ 0.5	Pass
802.11b	06	2437	14.009	≥ 0.5	Pass
802.11b	11	2462	14.018	≥ 0.5	Pass
802.11g	01	2412	16.273	≥ 0.5	Pass
802.11g	06	2437	16.313	≥ 0.5	Pass
802.11g	11	2462	16.305	≥ 0.5	Pass
802.11n-20M	01	2412	17.433	≥ 0.5	Pass
802.11n-20M	06	2437	17.438	≥ 0.5	Pass
802.11n-20M	11	2462	17.440	≥ 0.5	Pass

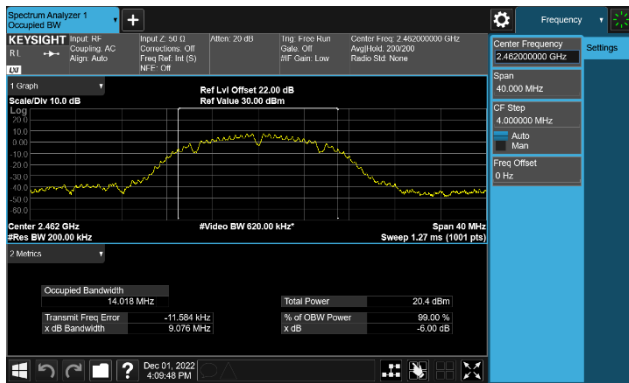
802.11 b CH01 (2412MHz)



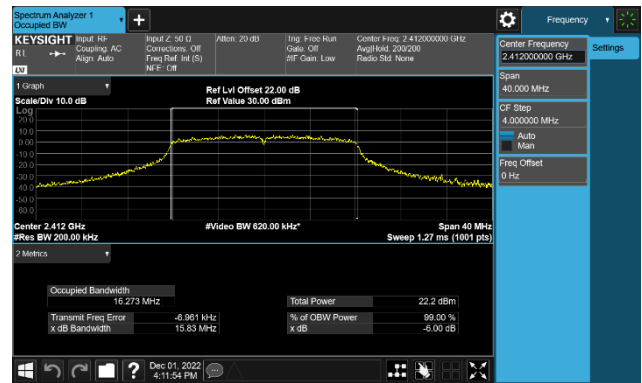
802.11 b CH06 (2437MHz)



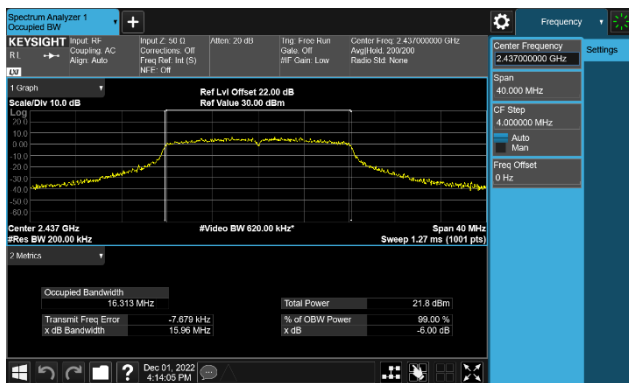
802.11 b CH11 (2462MHz)



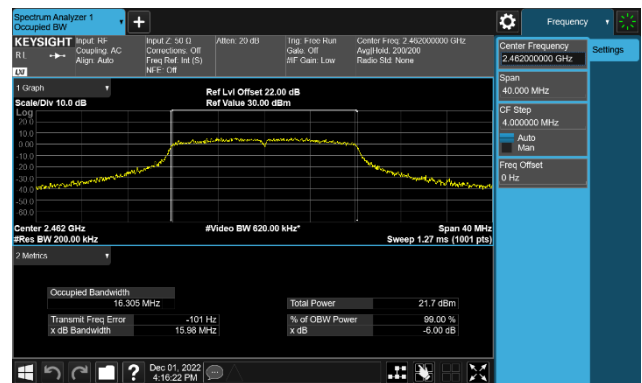
802.11 g CH01 (2412MHz)



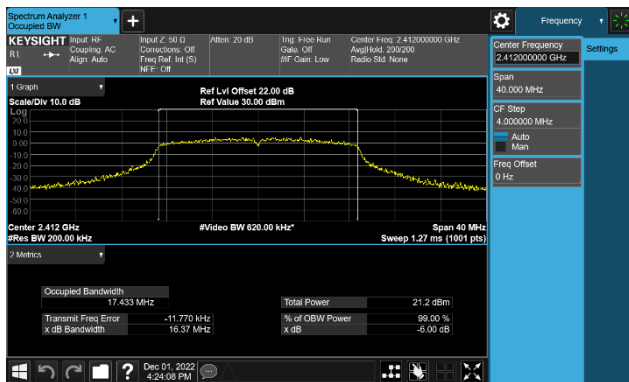
802.11 g CH06 (2437MHz)



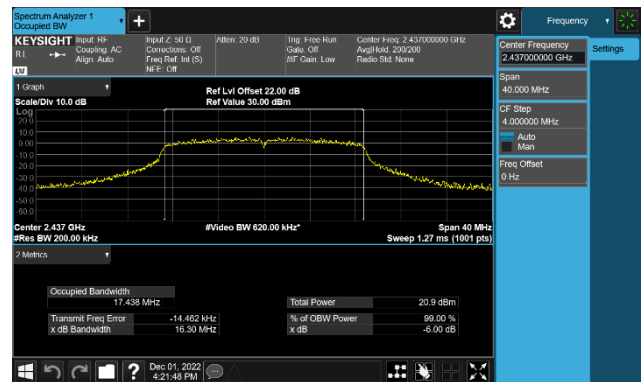
802.11 g CH11 (2462MHz)



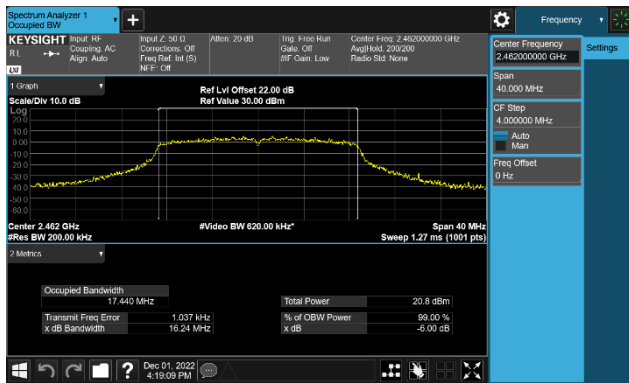
802.11 n-20M CH01 (2412MHz)



802.11 n-20M CH06 (2437MHz)



802.11 n-20M CH11 (2462MHz)



7.3. Output Power Measurement

7.3.1. Test Limit

The maximum conducted output power shall be exceeded 1 Watt (30dBm) and the E.I.R.P shall not exceed 4 Watt (36dBm).

7.3.2. Test Procedure Used

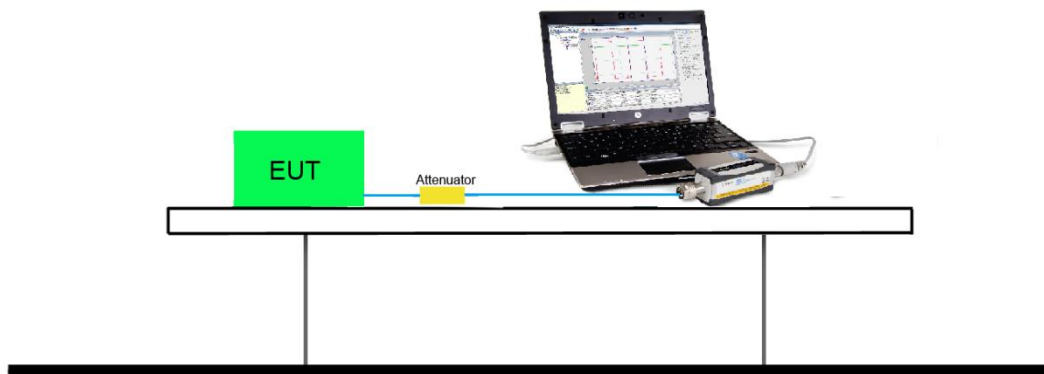
ANSI C63.10 - 2013 - Section 11.9.2.3.2

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 of Output Power

Model	Rate	Ch.	Freq. (MHz)	Peak Power (dBm)	Power Limit (dBm)
802.11b	1M	1	2412	18.46	30.00
	1M	6	2437	18.33	30.00
	1M	11	2462	18.38	30.00
802.11g	6M	1	2412	24.41	30.00
	6M	6	2437	24.19	30.00
	6M	11	2462	24.13	30.00
802.11n-HT20	MCS0	1	2412	23.68	30.00
	MCS0	6	2437	23.50	30.00
	MCS0	11	2462	23.42	30.00

Note: Output power = Reading value on power meter + cable loss °

7.4. Power Spectral Density Measurement

7.4.1. Test Limit

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

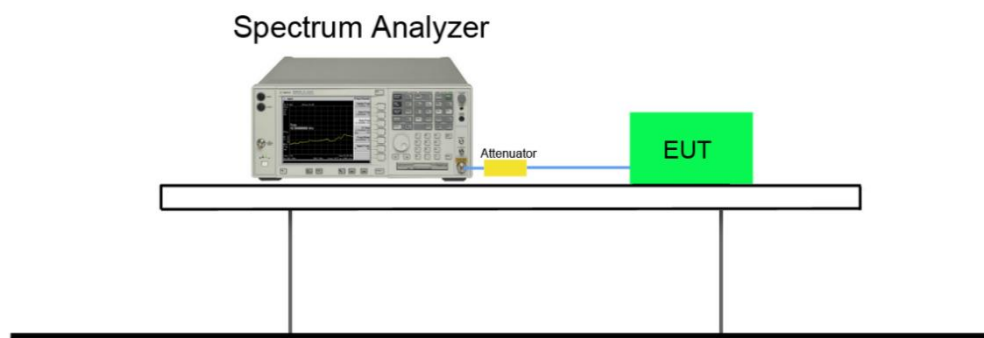
7.4.2. Test Procedure Used

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. If measured value exceeds requirement specified by regulatory agency, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

7.4.4. Test Setup



7.4.5. Test Result

Test Mode	Channel No.	Freq. (MHz)	PSD (dBm)	Limit (dBm)	Result
11b	1	2412	-3.92	≤ 8	Pass
11b	6	2437	-5.44	≤ 8	Pass
11b	11	2462	-5.53	≤ 8	Pass
11g	1	2412	-6.45	≤ 8	Pass
11g	6	2437	-7.34	≤ 8	Pass
11g	11	2462	-7.42	≤ 8	Pass
11n-20M	1	2412	-7.37	≤ 8	Pass
11n-20M	6	2437	-8.48	≤ 8	Pass
11n-20M	11	2462	-8.77	≤ 8	Pass

802.11 b CH01 (2412MHz)



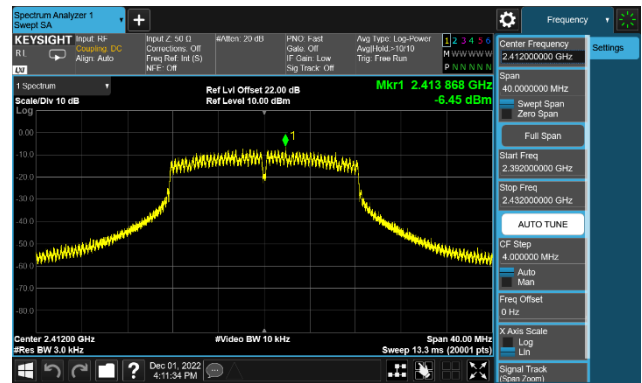
802.11 b CH06 (2437MHz)



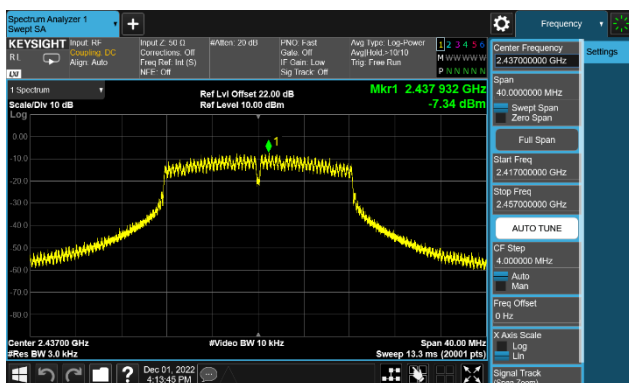
802.11 b CH11 (2462MHz)



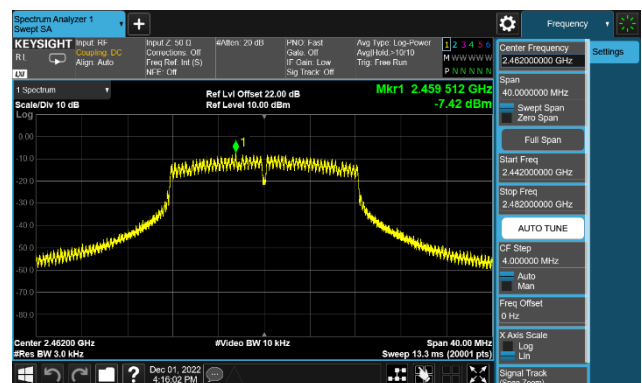
802.11 g CH01 (2412MHz)



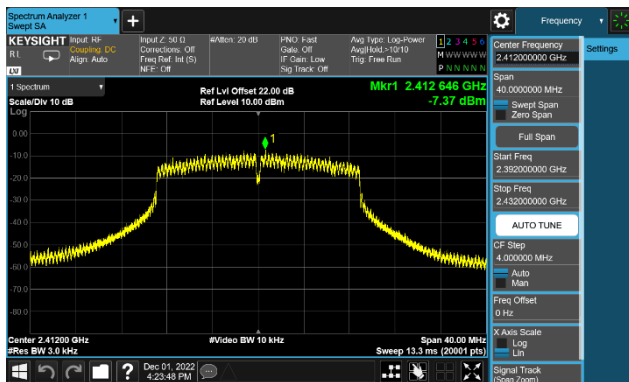
802.11 g CH06 (2437MHz)



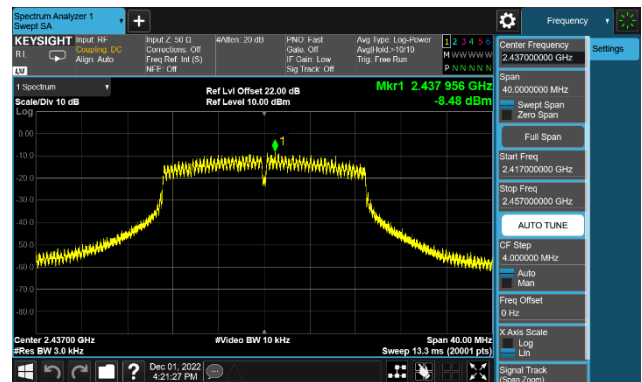
802.11 g CH11 (2462MHz)



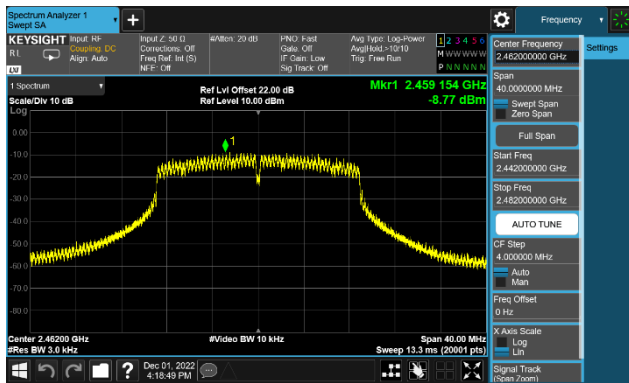
802.11 n-20M CH01 (2412MHz)



802.11 n-20M CH06 (2437MHz)



802.11 n-20M CH11 (2462MHz)



7.5. Out-of-Band Spurious Emissions Emissions Measurement

7.5.1. Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on RF conducted measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

7.5.2. Test Procedure Used

ANSI C63.10-2013 - Section 11.11

7.5.3. Test Setting

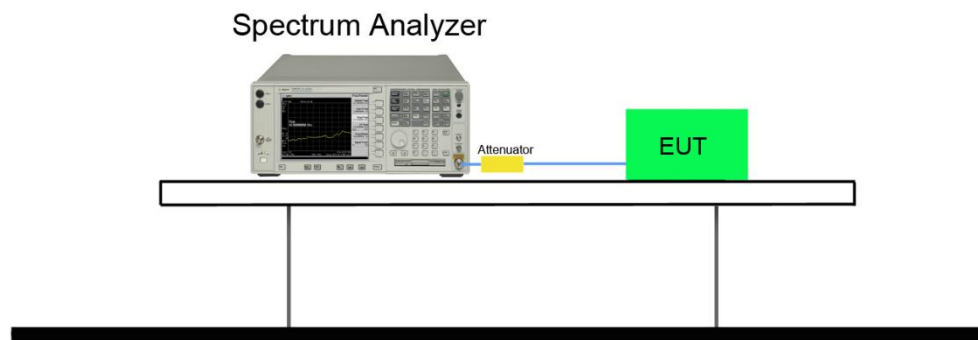
Reference level measurement

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

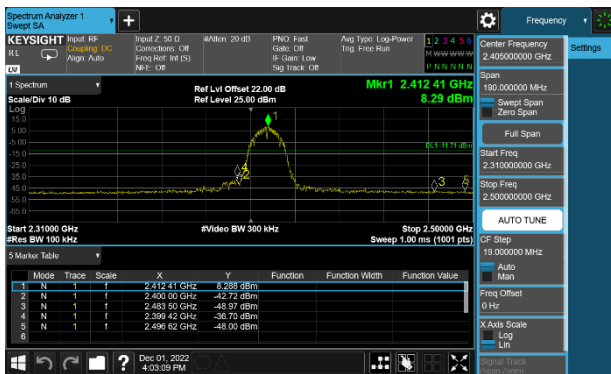
7.5.4. Test Setup



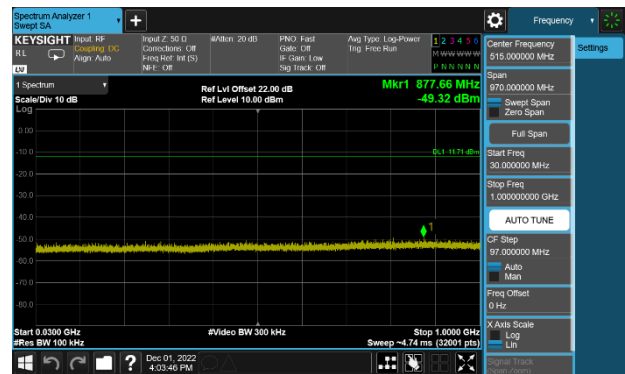
7.5.5. Test Result

Test Mode	Channel No.	Frequency (MHz)	Limit	Result
802.11b	01	2412	20dBc	Pass
802.11b	06	2437	20dBc	Pass
802.11b	11	2462	20dBc	Pass
802.11g	01	2412	20dBc	Pass
802.11g	06	2437	20dBc	Pass
802.11g	11	2462	20dBc	Pass
802.11n-20M	01	2412	20dBc	Pass
802.11n-20M	06	2437	20dBc	Pass
802.11n-20M	11	2462	20dBc	Pass

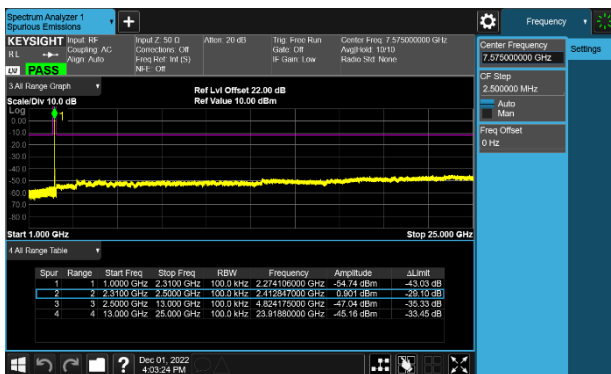
802.11 b CH01 (2412MHz)



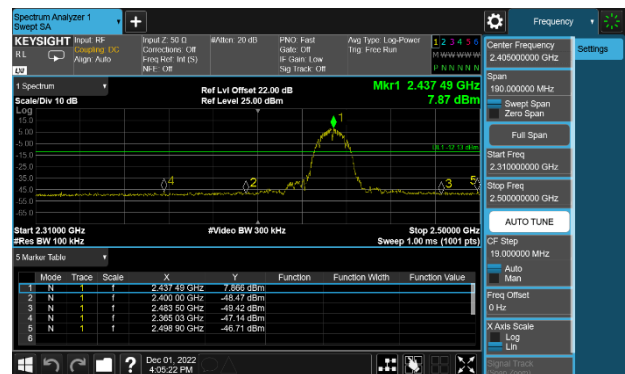
802.11 b CH01 (2412MHz)



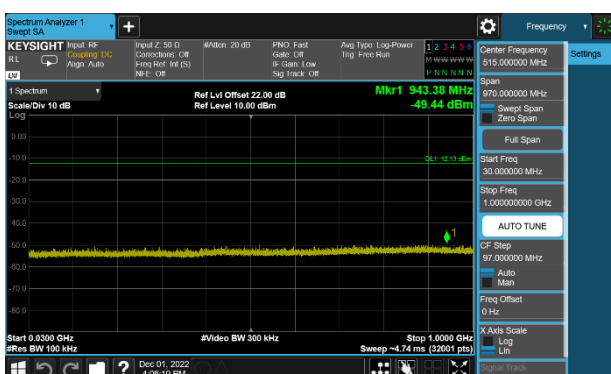
802.11 b CH01 (2412MHz)



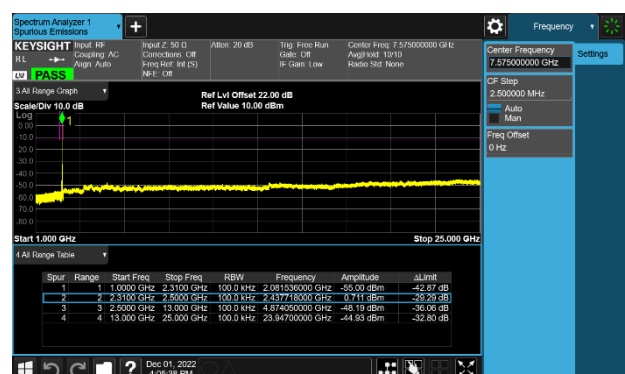
802.11 b CH06 (2437MHz)



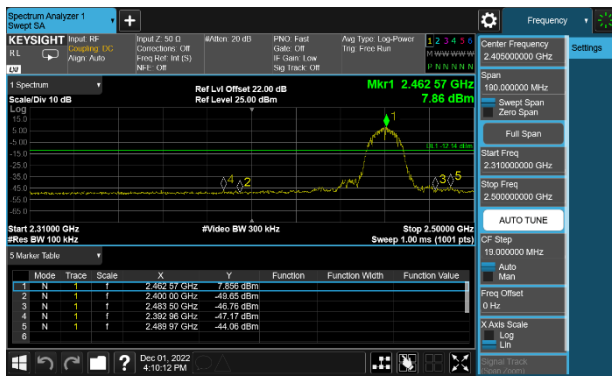
802.11 b CH06 (2437MHz)



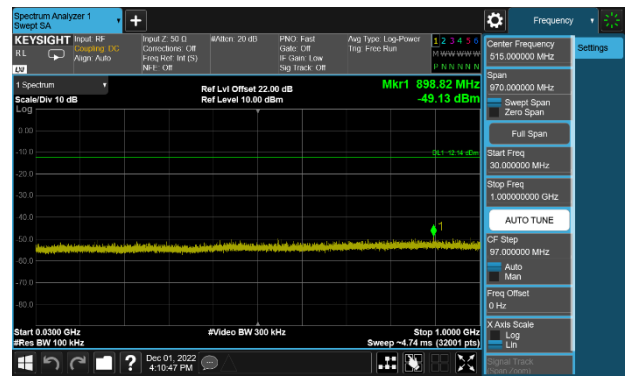
802.11 b CH06 (2437MHz)



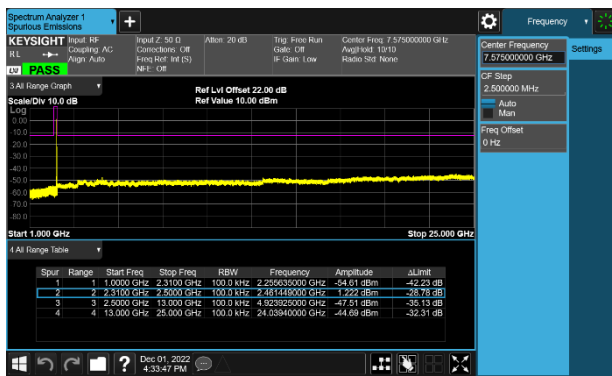
802.11 b CH11 (2462MHz)



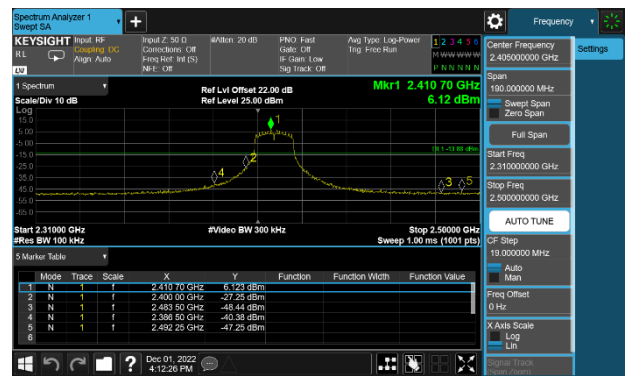
802.11 b CH11 (2462MHz)



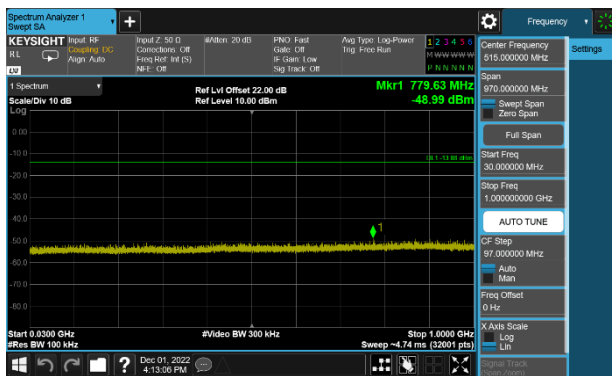
802.11 b CH11 (2462MHz)



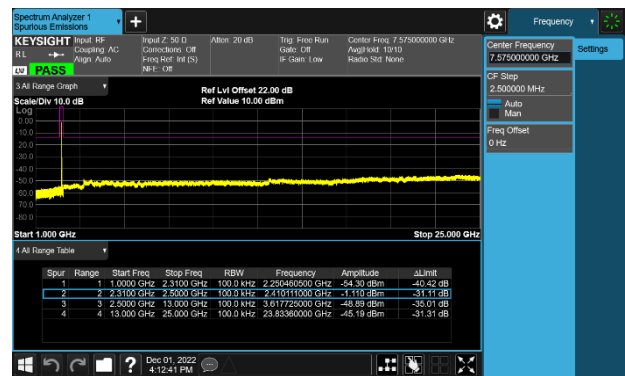
802.11 g CH01 (2412MHz)



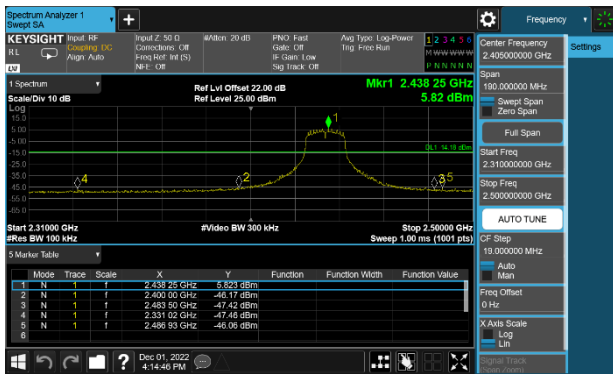
802.11 g CH01 (2412MHz)



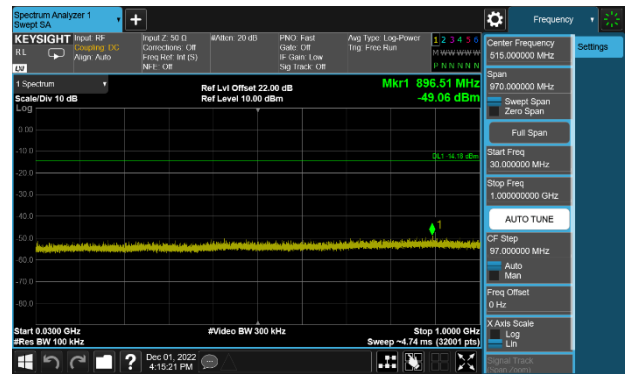
802.11 g CH01 (2412MHz)



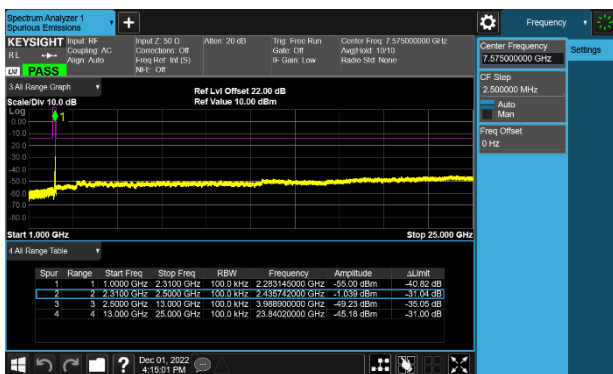
802.11 g CH06 (2437MHz)



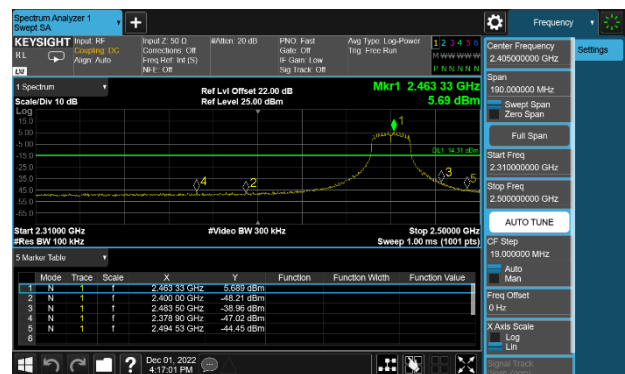
802.11 g CH06 (2437MHz)



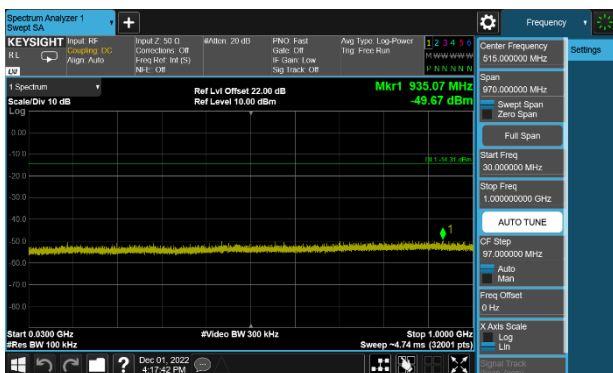
802.11 g CH06 (2437MHz)



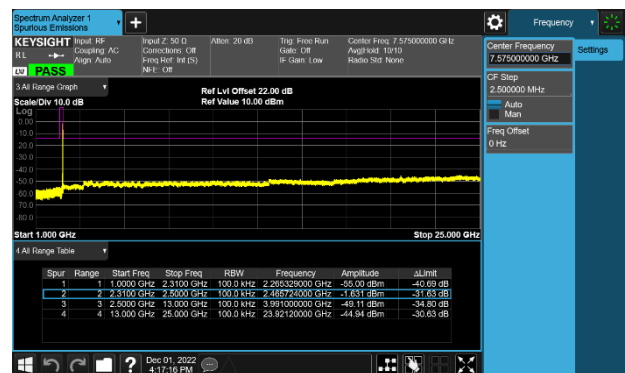
802.11 g CH11 (2462MHz)



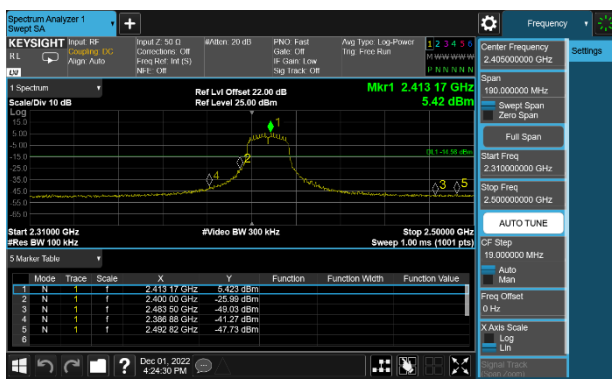
802.11 g CH11 (2462MHz)



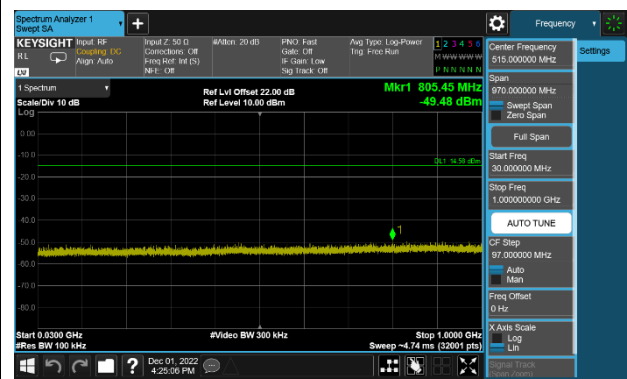
802.11 g CH11 (2462MHz)



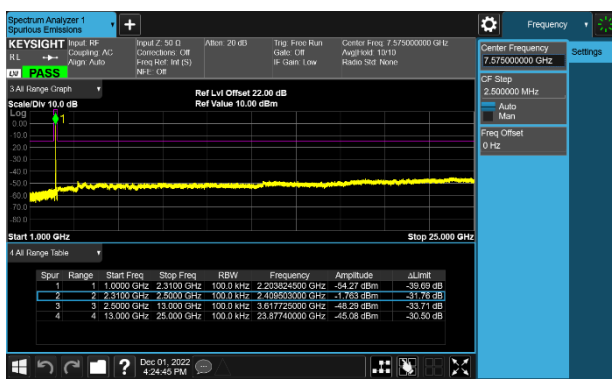
802.11 n20 CH01 (2412MHz)



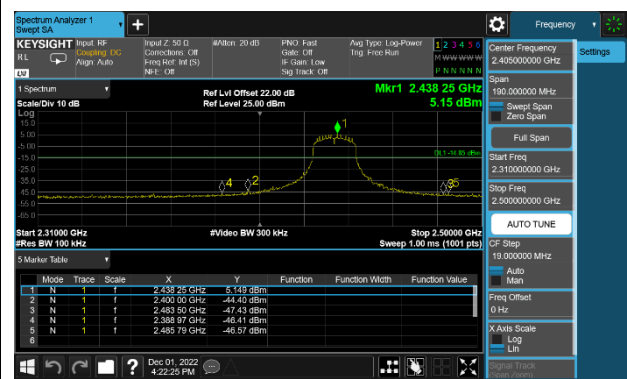
802.11 n20 CH01 (2412MHz)



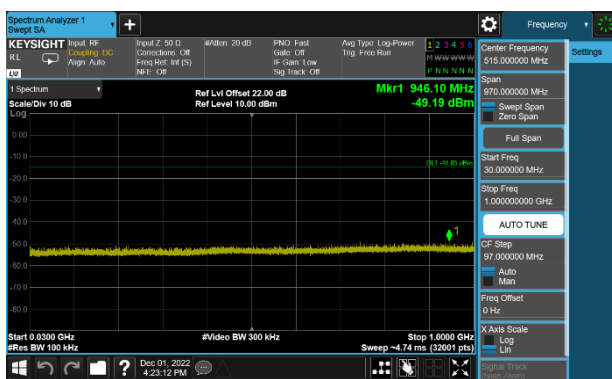
802.11 n20 CH01 (2412MHz)



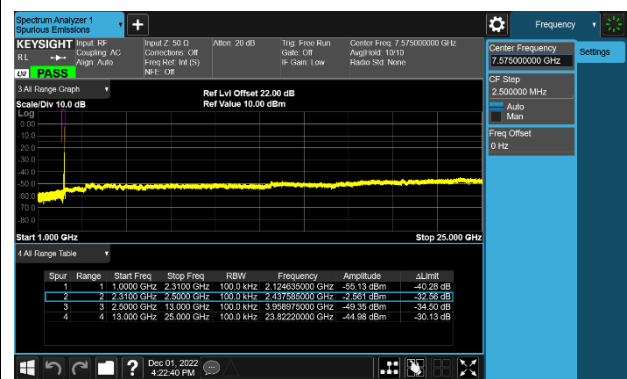
802.11 n20 CH06 (2437MHz)



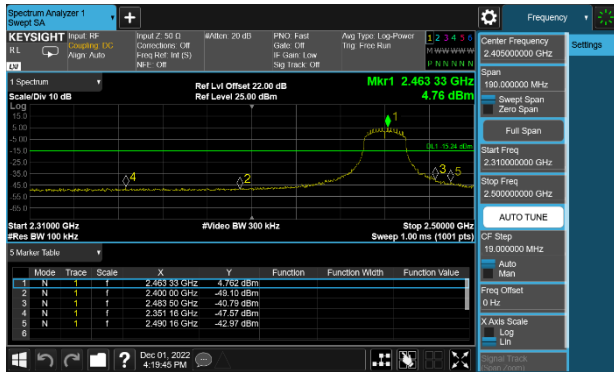
802.11 n20 CH06 (2437MHz)



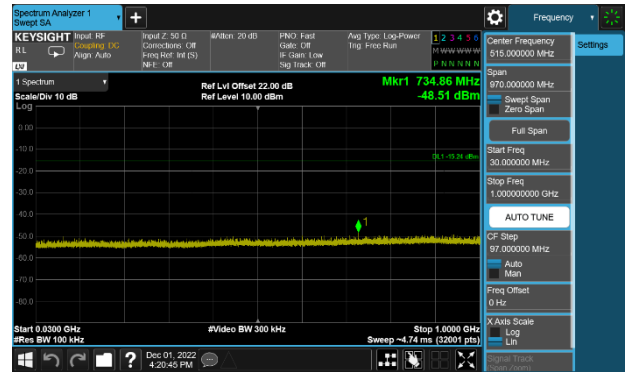
802.11 n20 CH06 (2437MHz)



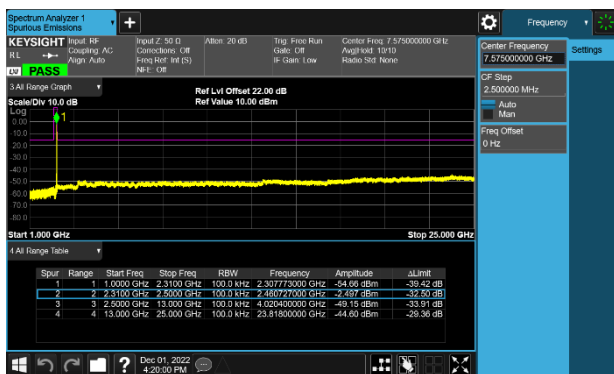
802.11 n20 CH11 (2462MHz)



802.11 n20 CH11 (2462MHz)



802.11 n20 CH11 (2462MHz)



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 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209 / RSS-Gen Section 8.9		
Frequency [MHz]	Field Strength [V/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

All out of band emissions appearing in a restricted band as specified in Section 8.10 of the RSS-GEN Issue 5 must not exceed the limits shown in Table per Section 8.9.

RSS-Gen Section 8.9		
Frequency [MHz]	Field Strength [μA/m]	Measured Distance [Meters]
0.009 - 0.490	6.37/F (kHz)	300
0.490 - 1.705	63.7/F (kHz)	30
1.705 - 30	0.08	30
Frequency [MHz]	Field Strength [μV/m]	Measured Distance [Meters]
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

7.6.2. Test Procedure Used

ANSI C63.10 - 2013 - Section 11.11 & 11.12

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
> 1000 MHz	1 MHz

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

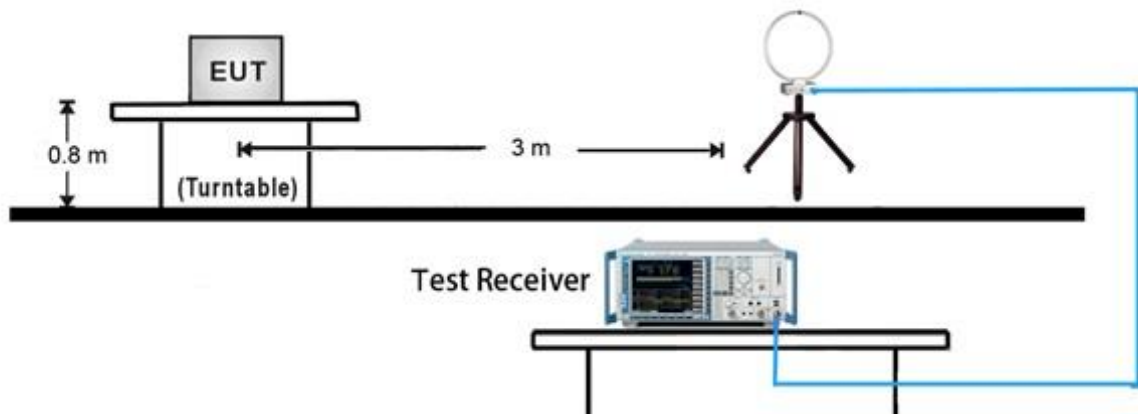
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

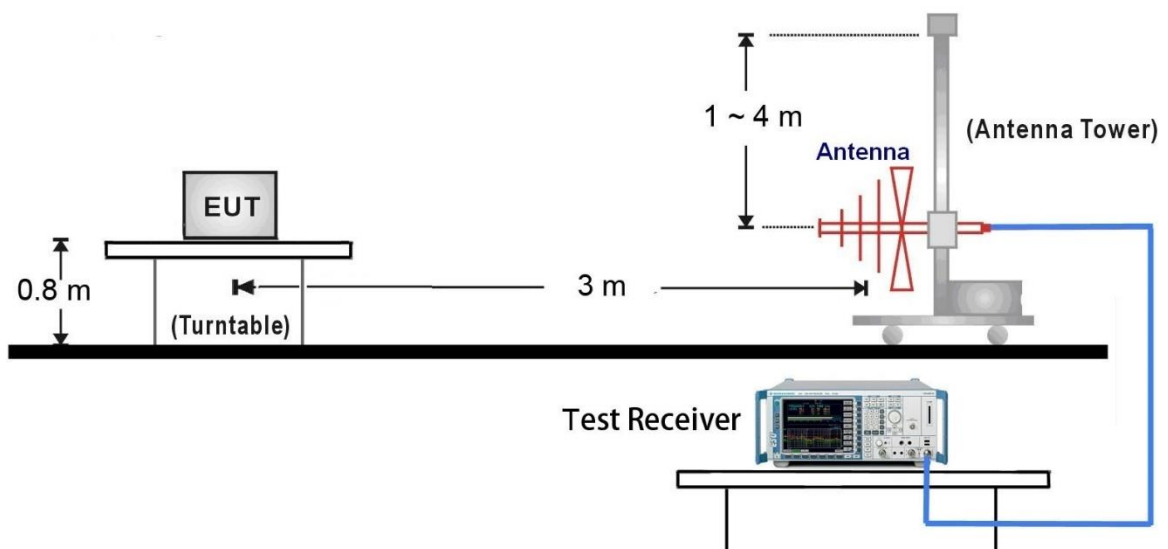
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$. T is the minimum transmission duration.
4.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

7.6.4. Test Setup

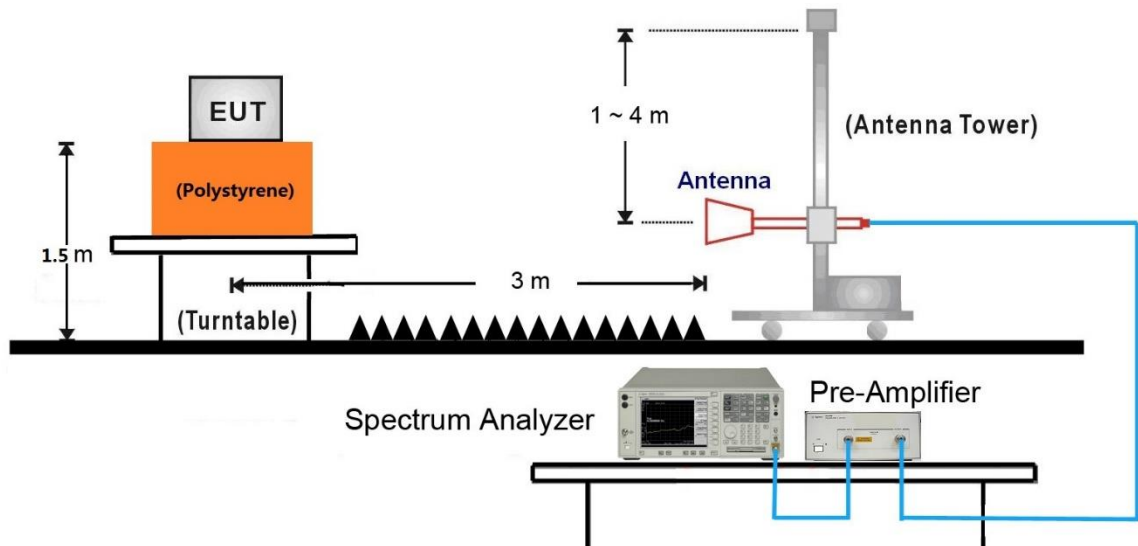
9kHz ~ 30MHz Test Setup:



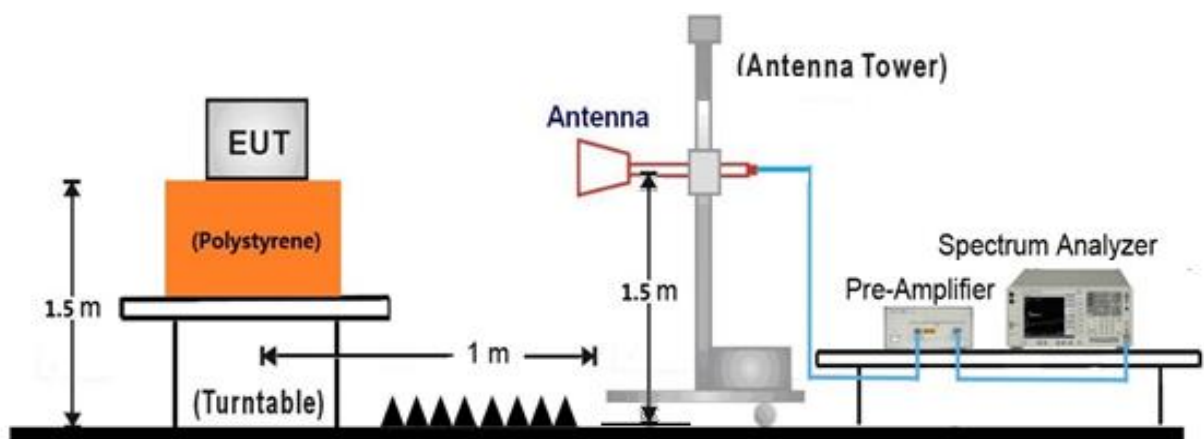
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:

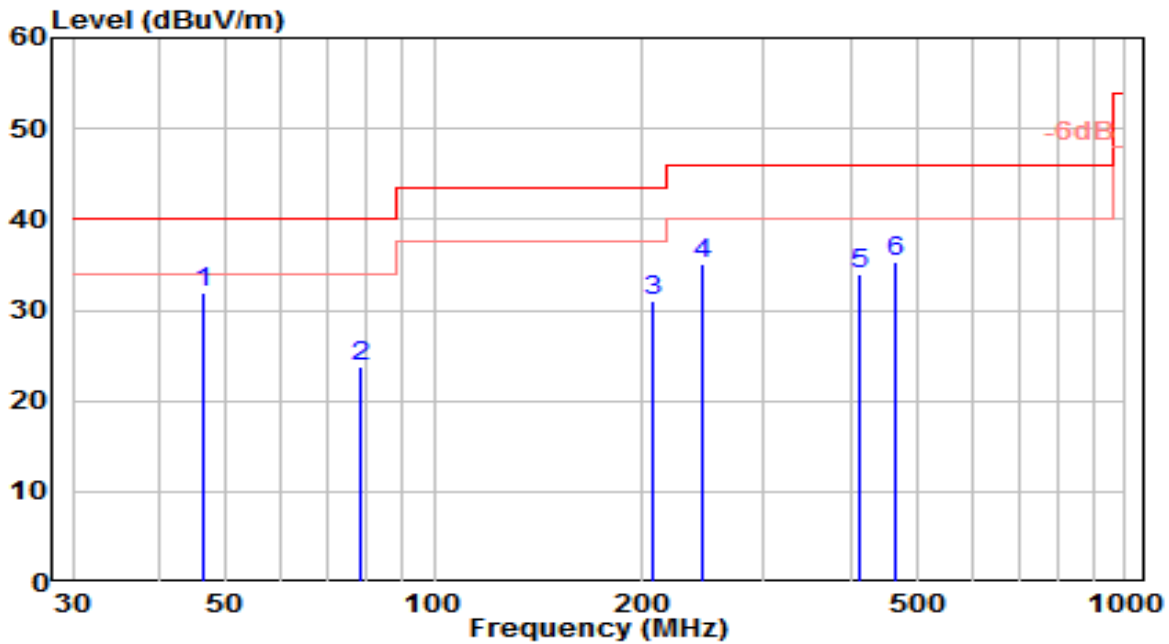


18GHz ~ 25GHz Test Setup:



7.6.5. Test Result

EUT	POS Terminal	Date of Test	2022-12-01
Factor	VULB 9162	Temp. / Humidity	24°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

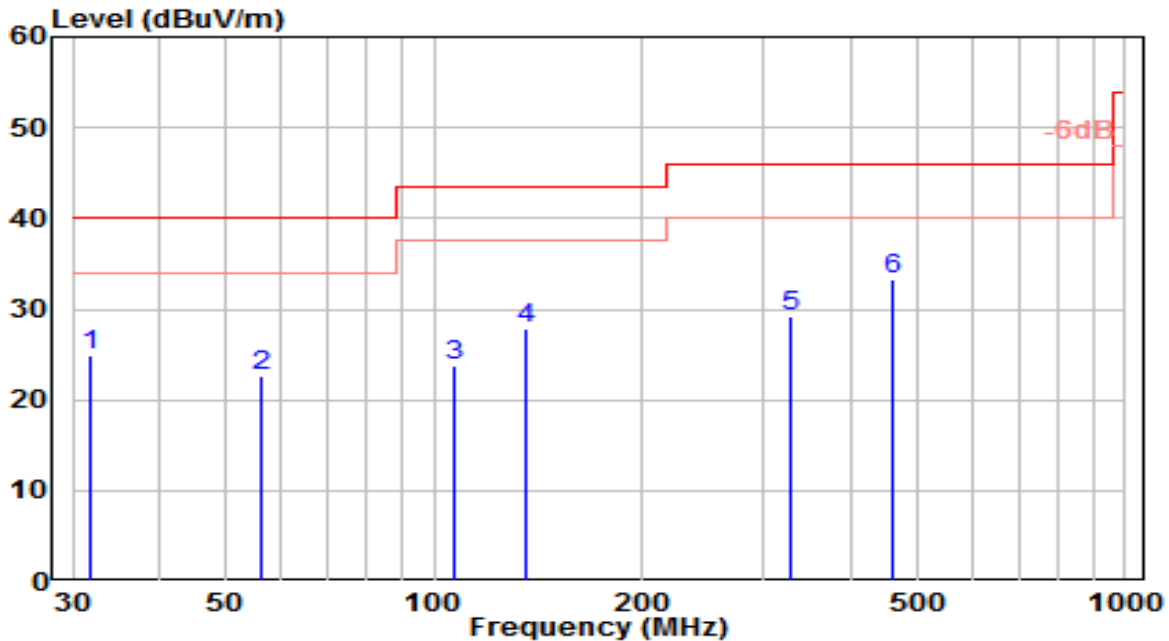


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	46.490	10.69	21.35	32.03	-7.97	40.00	100	QP
2		78.500	9.22	14.54	23.76	-16.24	40.00	100	QP
3		206.540	12.32	18.71	31.03	-12.47	43.50	100	QP
4		244.370	14.52	20.64	35.16	-10.84	46.00	100	QP
5		414.120	9.62	24.38	34.00	-12.00	46.00	100	QP
6		465.530	10.15	25.10	35.25	-10.75	46.00	100	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 amplitude of radiated emissions (frequency range from9kHz to 30MHz) is that proximity to ambient noise ,which also are attenuated more than 20dB below the permissible value. Therefore, the data is not presented in the report.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	POS Terminal	Date of Test	2022-12-01
Factor	VULB 9162	Temp. / Humidity	24°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

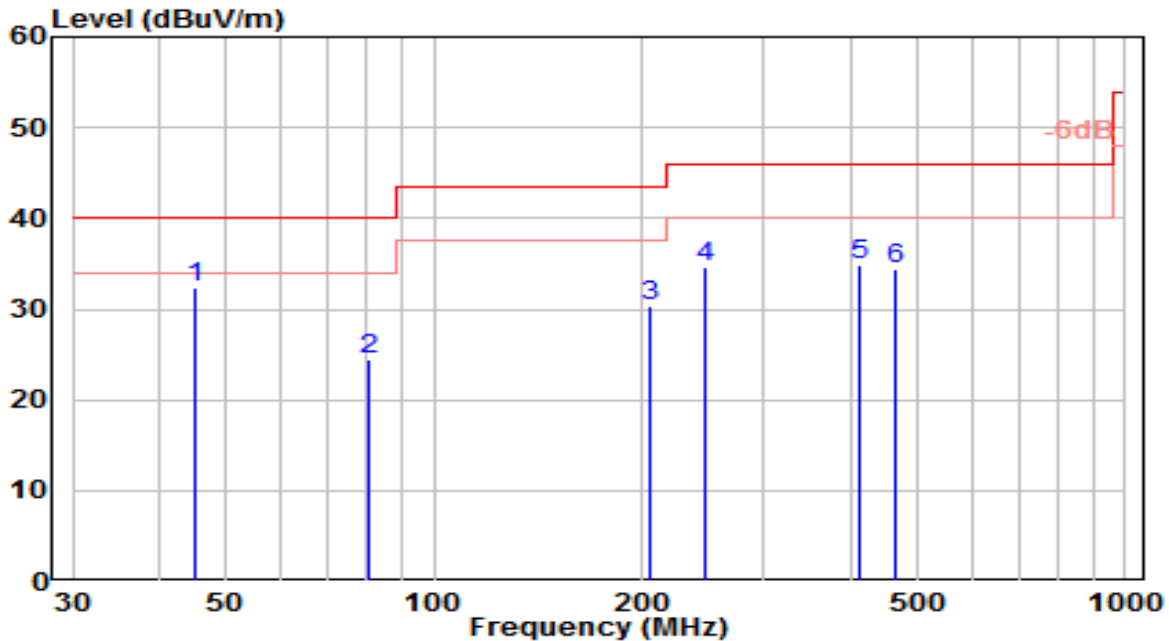


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	31.940	7.32	17.51	24.83	-15.17	40.00	100	280	QP
2	56.190	2.05	20.50	22.54	-17.46	40.00	100	0	QP
3	106.630	4.88	18.97	23.85	-19.65	43.50	100	320	QP
4	135.730	11.95	15.81	27.76	-15.74	43.50	100	290	QP
5	326.820	6.88	22.37	29.25	-16.75	46.00	100	70	QP
6	* 461.650	8.24	25.00	33.24	-12.76	46.00	100	275	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 amplitude of radiated emissions (frequency range from9kHz to 30MHz) is that proximity to ambient noise ,which also are attenuated more than 20dB below the permissible value. Therefore, the data is not presented in the report.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	POS Terminal	Date of Test	2022-12-01
Factor	VULB 9162	Temp. / Humidity	24°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11n-20MHz_RX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

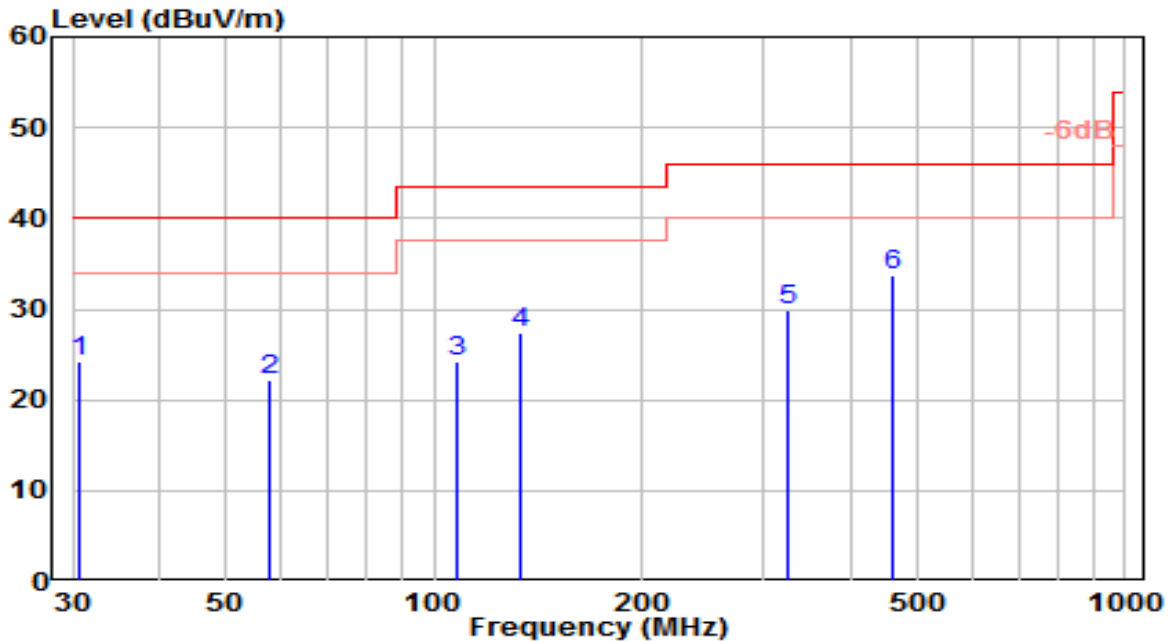


No		Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	45.213	11.14	21.31	32.45	-7.55	40.00	100	100	QP
2		80.249	10.06	14.33	24.39	-15.61	40.00	100	75	QP
3		204.865	11.62	18.72	30.34	-13.16	43.50	100	0	QP
4		246.111	14.01	20.73	34.74	-11.26	46.00	100	290	QP
5		412.488	10.47	24.37	34.84	-11.16	46.00	100	305	QP
6		464.112	9.36	25.07	34.43	-11.57	46.00	100	310	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 amplitude of radiated emissions (frequency range from 9kHz to 30MHz) is that proximity to ambient noise ,which also are attenuated more than 20dB below the permissible value. Therefore, the data is not presented in the report.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	POS Terminal	Date of Test	2022-12-01
Factor	VULB 9162	Temp. / Humidity	24°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11n-20MHz_RX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

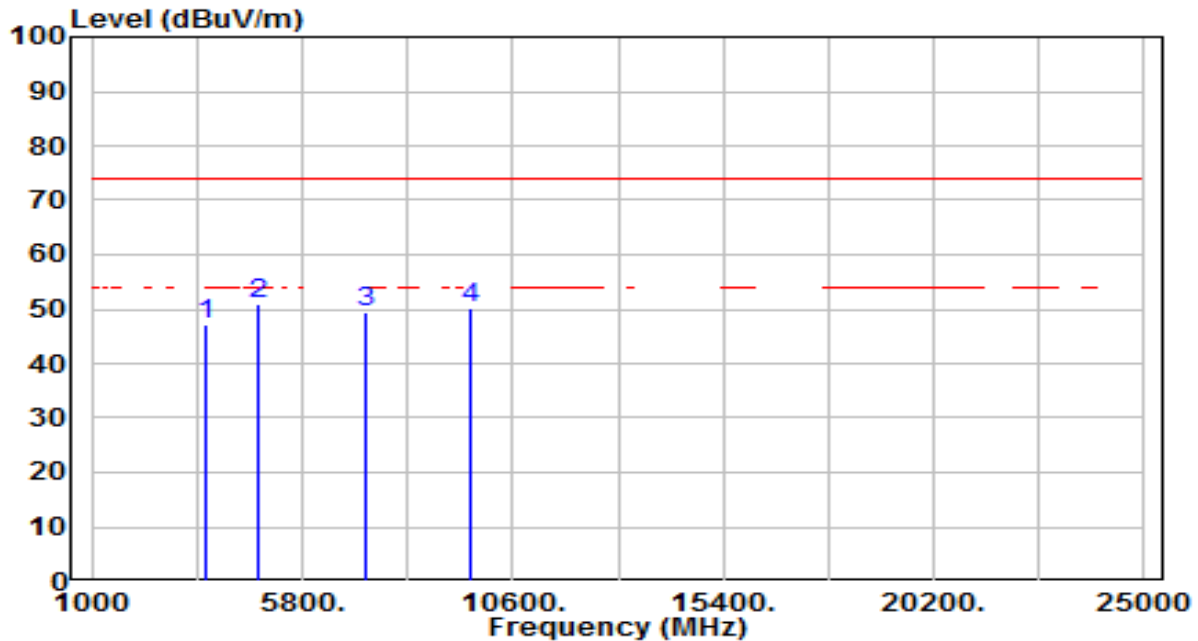


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	30.715	6.99	17.19	24.18	-15.82	40.00	100	280	QP
2	57.826	1.94	20.24	22.18	-17.82	40.00	100	0	QP
3	108.088	5.41	18.90	24.31	-19.19	43.50	100	320	QP
4	133.856	11.41	15.93	27.34	-16.16	43.50	100	290	QP
5	325.471	7.56	22.33	29.89	-16.11	46.00	100	70	QP
6	* 460.496	8.75	24.97	33.71	-12.29	46.00	100	275	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 amplitude of radiated emissions (frequency range from9kHz to 30MHz) is that proximity to ambient noise ,which also are attenuated more than 20dB below the permissible value. Therefore, the data is not presented in the report.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

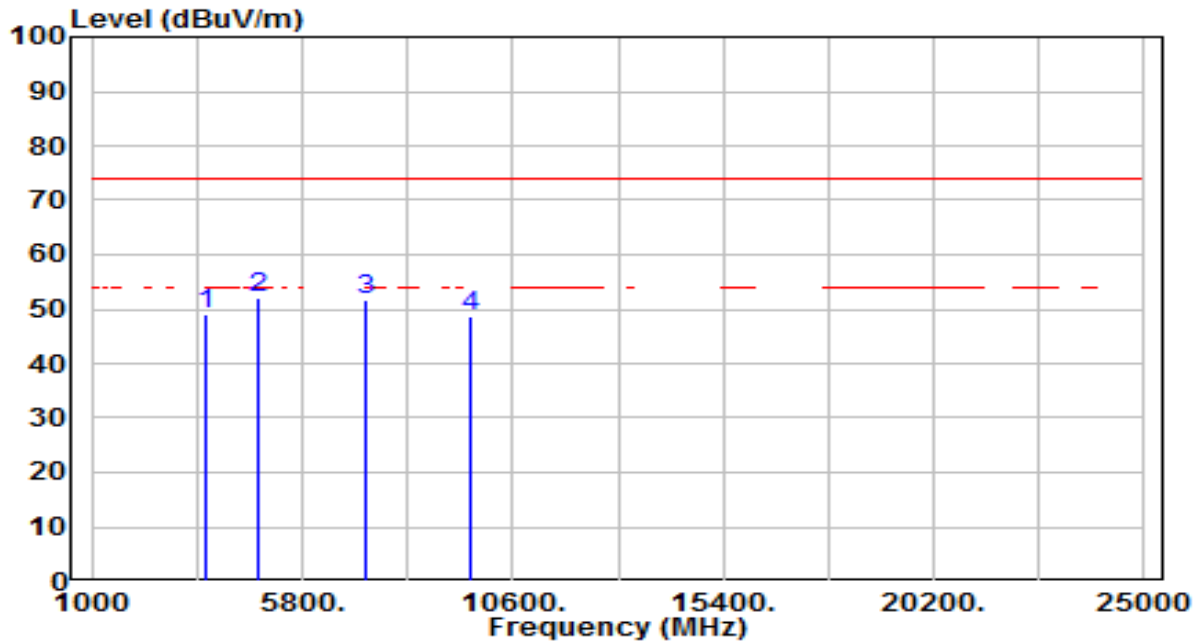


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3618.000	47.16	0.04	47.20	-26.80	74.00	100	360	Peak
2	* 4824.000	47.41	3.65	51.06	-22.94	74.00	100	360	Peak
3	7236.000	37.77	11.80	49.57	-24.43	74.00	100	360	Peak
4	9648.000	34.38	15.77	50.14	-23.86	74.00	100	360	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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

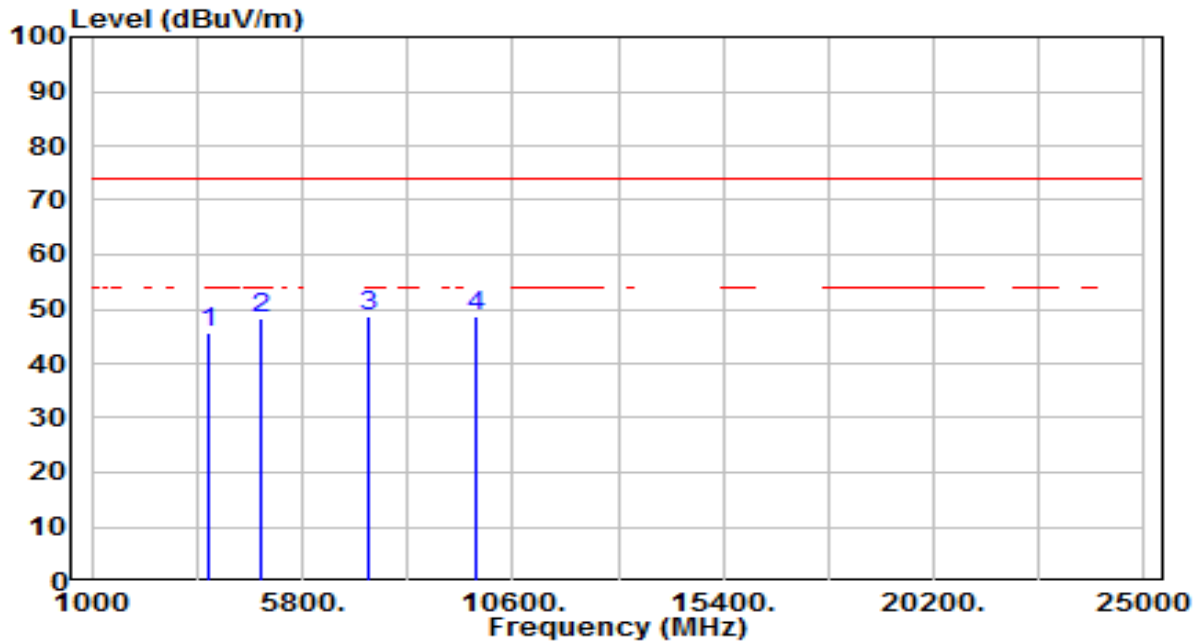


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3618.000	49.00	0.04	49.04	-24.96	74.00	100	360	Peak
2	* 4824.000	48.57	3.65	52.22	-21.78	74.00	100	360	Peak
3	7236.000	39.93	11.80	51.74	-22.26	74.00	100	360	Peak
4	9648.000	33.08	15.77	48.85	-25.15	74.00	100	360	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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11b_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

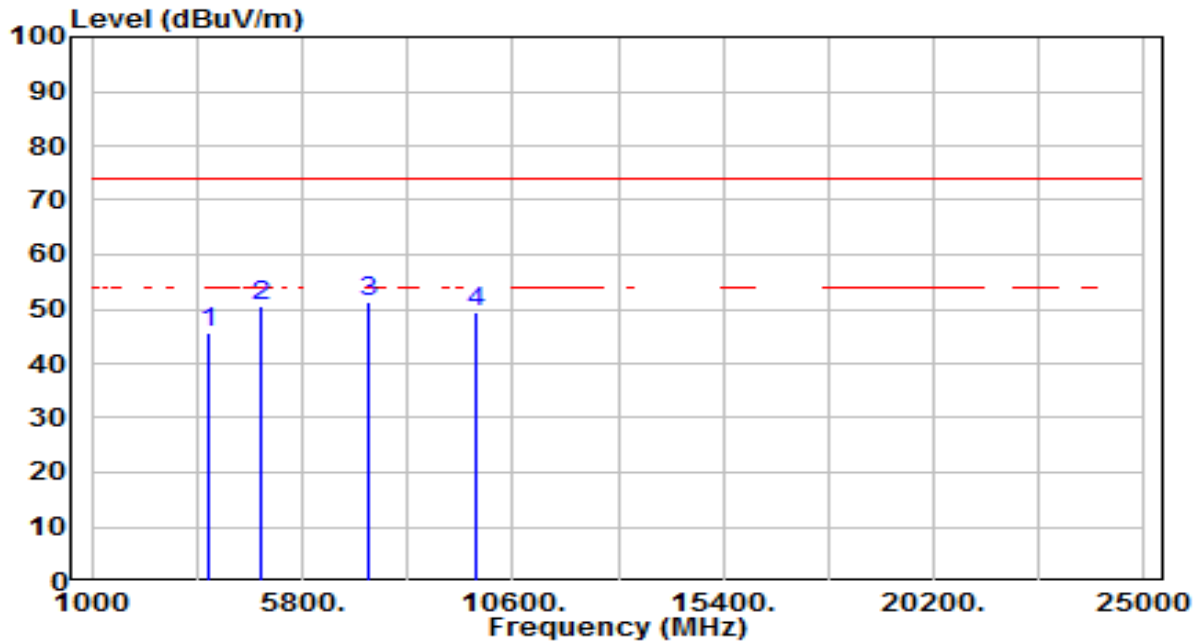


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3655.188	45.57	0.14	45.71	-28.29	74.00	100	360	Peak
2	4874.000	44.62	3.74	48.35	-25.65	74.00	100	360	Peak
3	7311.000	36.50	12.11	48.61	-25.39	74.00	100	360	Peak
4	* 9748.000	32.88	15.95	48.83	-25.17	74.00	100	360	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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11b_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

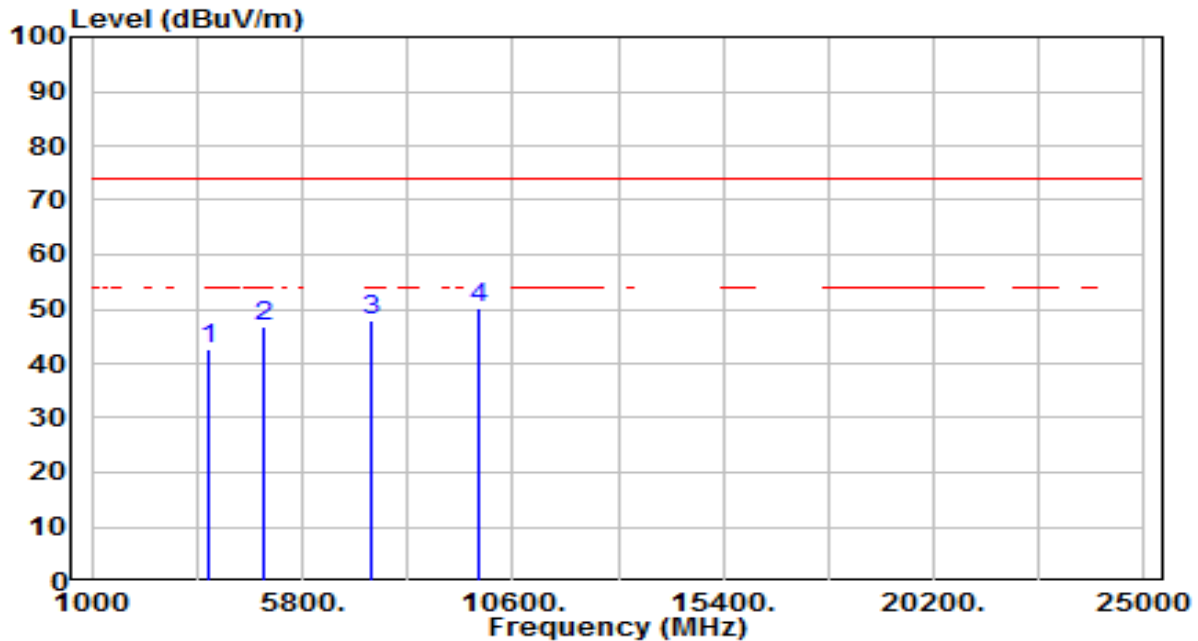


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3655.719	45.49	0.14	45.63	-28.37	74.00	100	360	Peak
2	4874.000	46.88	3.74	50.62	-23.38	74.00	100	360	Peak
3	* 7311.000	39.37	12.11	51.48	-22.52	74.00	100	360	Peak
4	9748.000	33.66	15.95	49.61	-24.39	74.00	100	360	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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

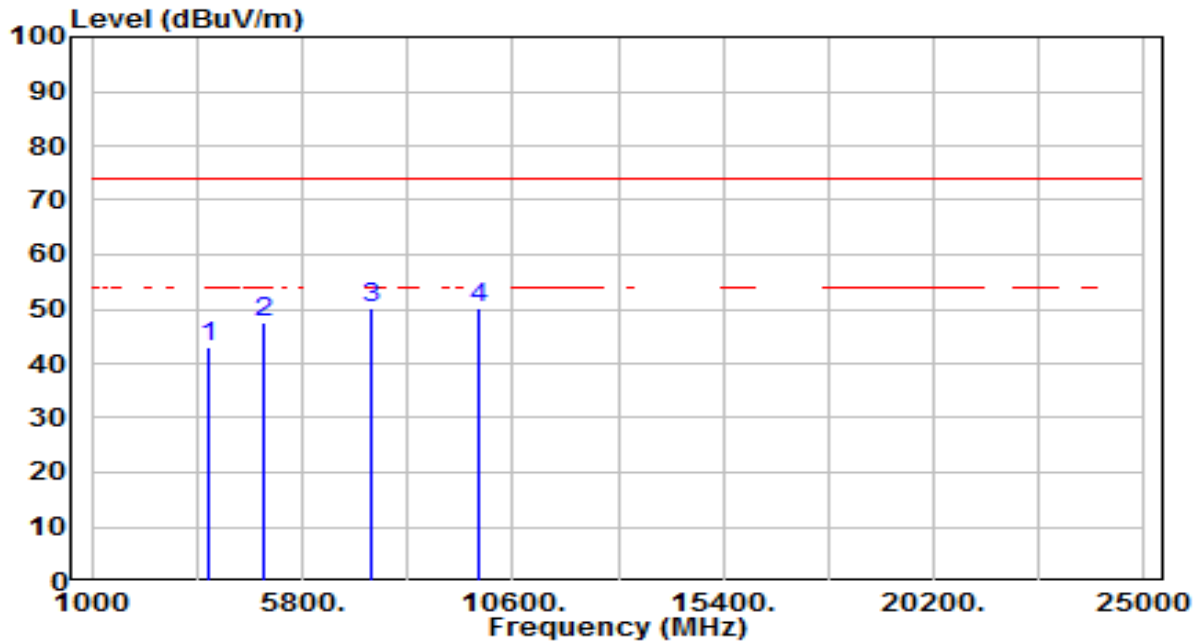


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3692.906	42.37	0.24	42.61	-31.39	74.00	100	360	Peak
2	4924.000	42.86	3.83	46.69	-27.31	74.00	100	360	Peak
3	7386.000	35.45	12.42	47.87	-26.13	74.00	100	360	Peak
4	* 9848.000	33.96	16.14	50.09	-23.91	74.00	100	360	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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

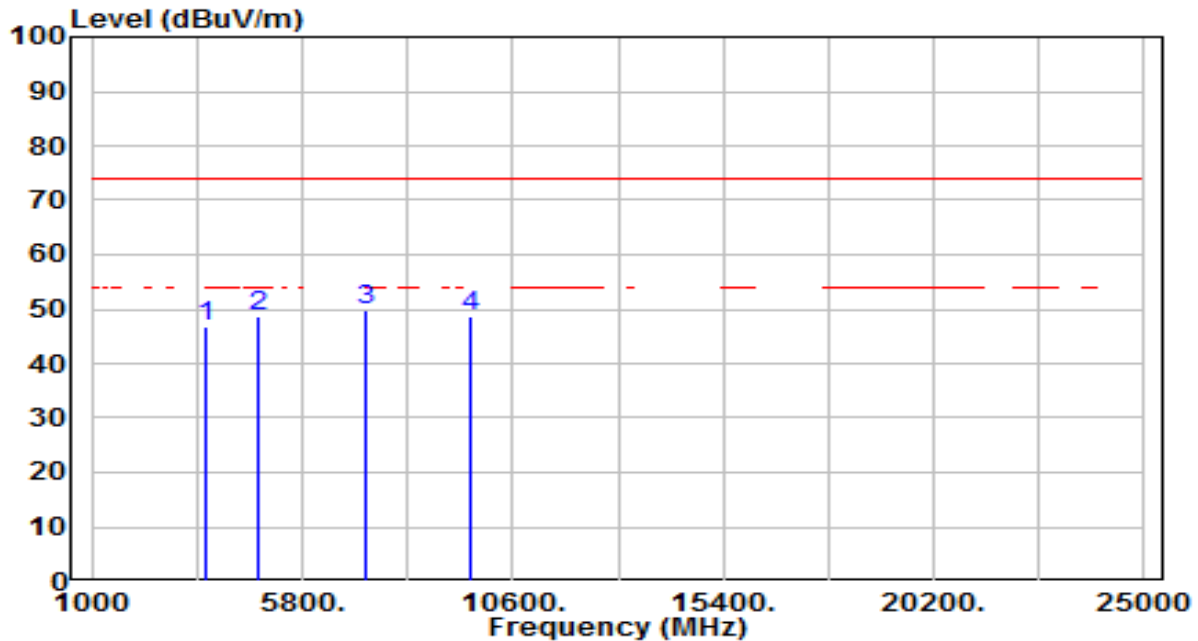


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3692.906	42.84	0.24	43.08	-30.92	74.00	100	360	Peak
2	4924.000	43.86	3.83	47.69	-26.31	74.00	100	360	Peak
3	7386.000	37.80	12.42	50.23	-23.77	74.00	100	360	Peak
4	* 9848.000	34.19	16.14	50.33	-23.67	74.00	100	360	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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

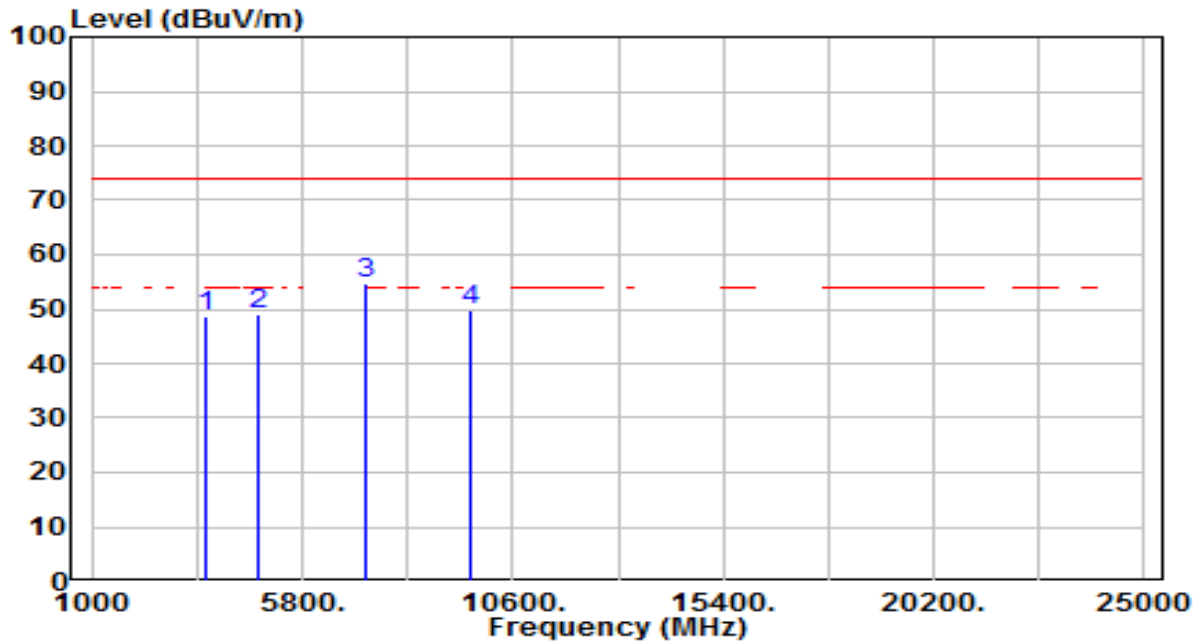


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3618.531	46.62	0.04	46.67	-27.33	74.00	100	360	Peak
2	4824.000	44.90	3.65	48.55	-25.45	74.00	100	360	Peak
3	* 7236.000	38.19	11.80	50.00	-24.00	74.00	100	360	Peak
4	9648.000	32.90	15.77	48.67	-25.33	74.00	100	360	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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

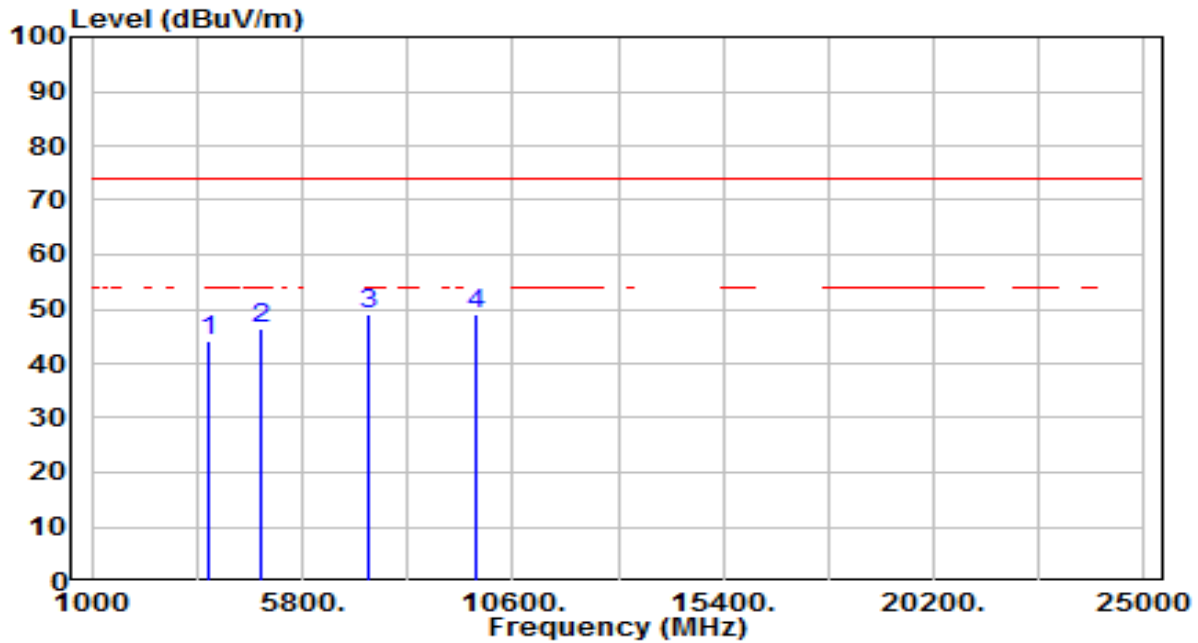


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3618.000	48.79	0.04	48.83	-25.17	74.00	100	360	Peak
2	4824.000	45.26	3.65	48.90	-25.10	74.00	100	360	Peak
3	* 7236.000	42.83	11.80	54.64	-19.36	74.00	100	360	Peak
4	9648.000	33.89	15.77	49.65	-24.35	74.00	100	360	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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11g_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

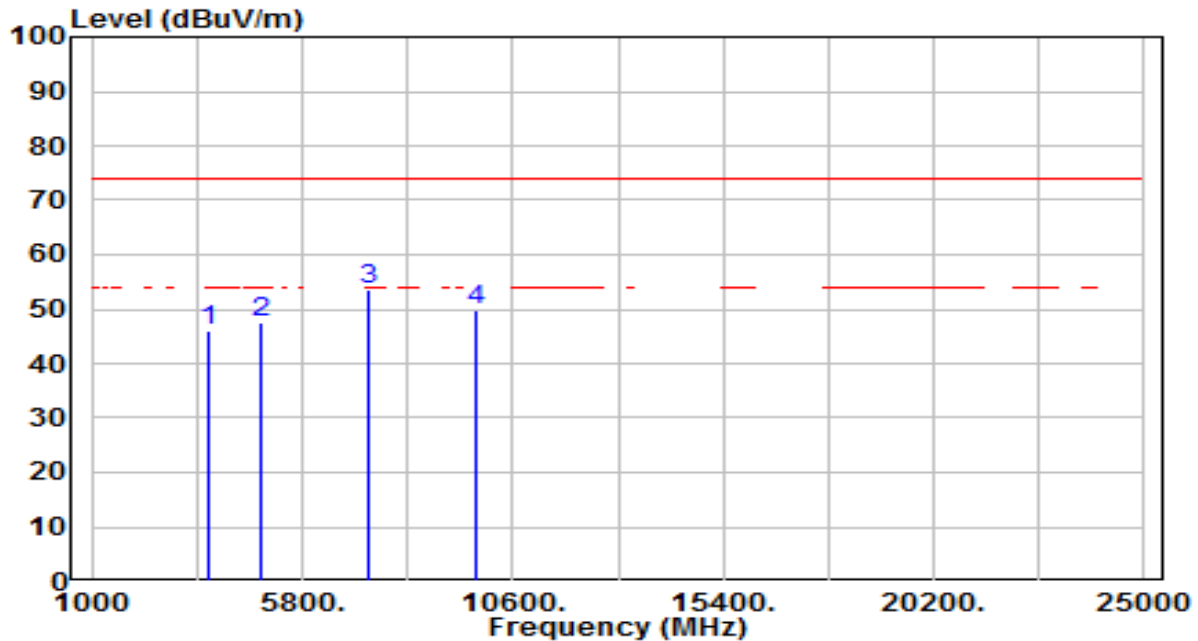


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3655.719	44.14	0.14	44.28	-29.72	74.00	100	360	Peak
2	4874.000	42.56	3.74	46.29	-27.71	74.00	100	360	Peak
3	* 7311.000	37.06	12.11	49.18	-24.82	74.00	100	360	Peak
4	9748.000	33.22	15.95	49.17	-24.83	74.00	100	360	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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11g_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

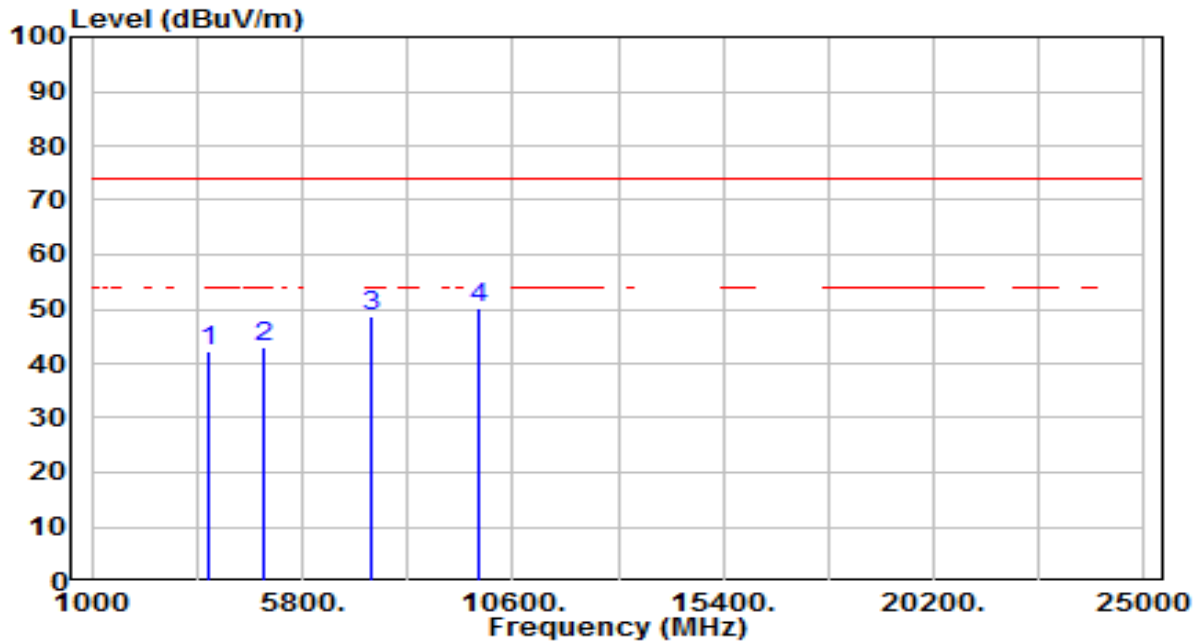


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3655.188	45.74	0.14	45.88	-28.12	74.00	100	360	Peak
2	4874.000	43.70	3.74	47.44	-26.56	74.00	100	360	Peak
3	* 7311.000	41.63	12.11	53.75	-20.25	74.00	100	360	Peak
4	9748.000	33.97	15.95	49.92	-24.08	74.00	100	360	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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

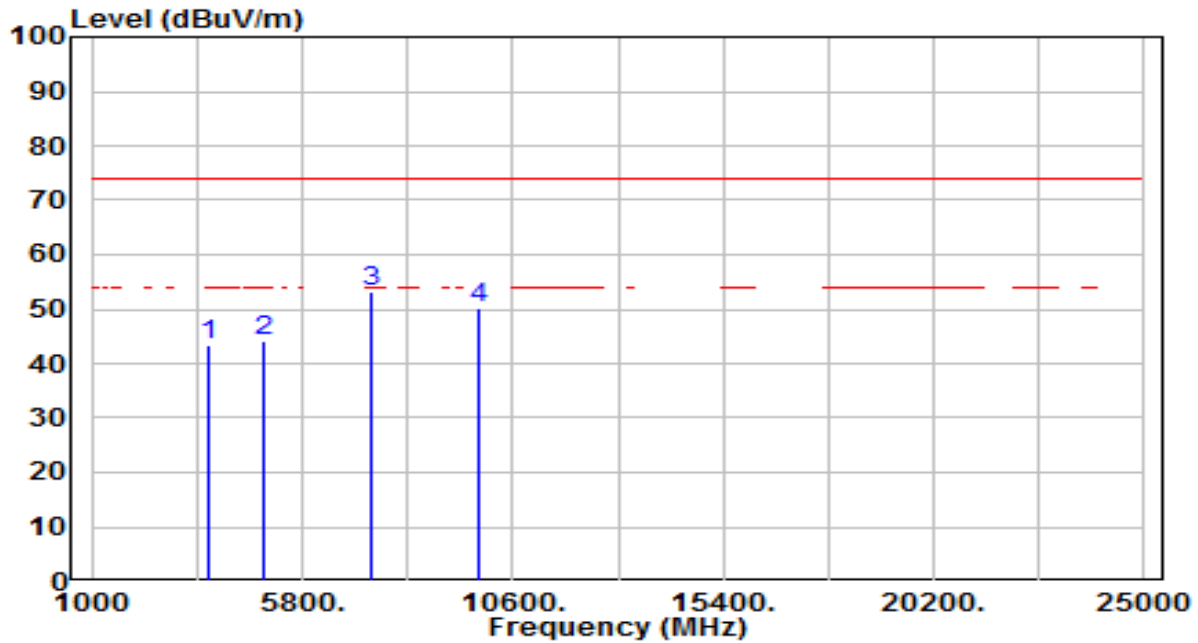


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3693.438	41.92	0.24	42.16	-31.84	74.00	100	360	Peak
2	4924.000	39.16	3.83	42.99	-31.01	74.00	100	360	Peak
3	7386.000	36.31	12.42	48.73	-25.27	74.00	100	360	Peak
4	* 9848.000	33.98	16.14	50.12	-23.88	74.00	100	360	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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

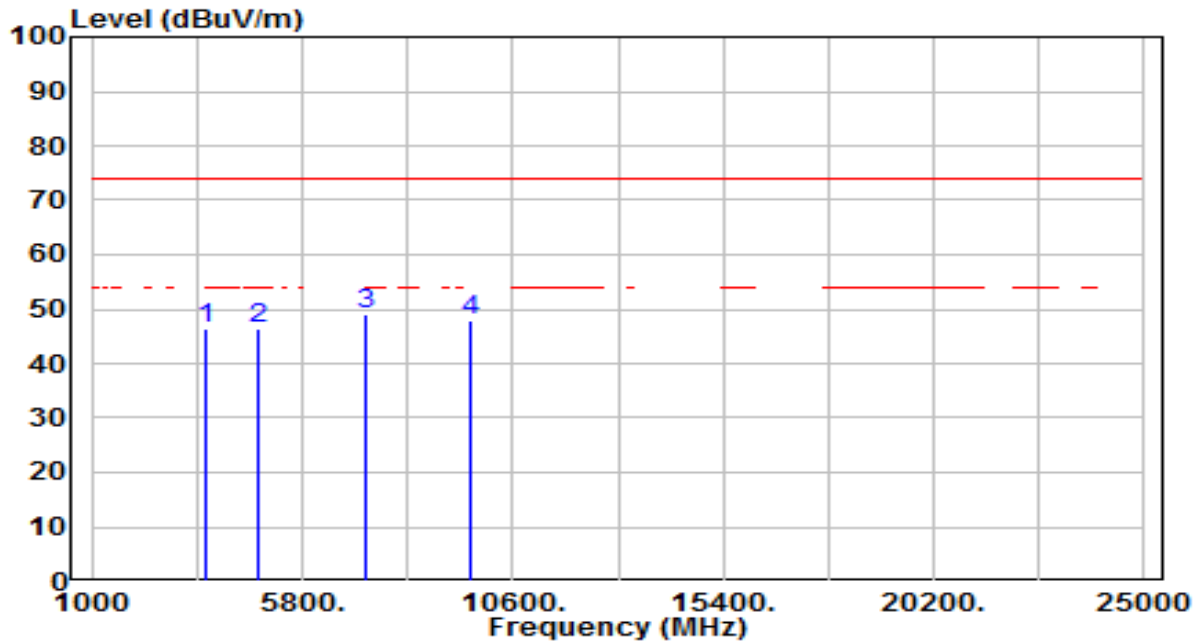


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3692.906	43.17	0.24	43.41	-30.59	74.00	100	360	Peak
2	4924.000	40.49	3.83	44.32	-29.68	74.00	100	360	Peak
3	* 7386.000	40.75	12.42	53.17	-20.83	74.00	100	360	Peak
4	9848.000	34.02	16.14	50.16	-23.84	74.00	100	360	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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

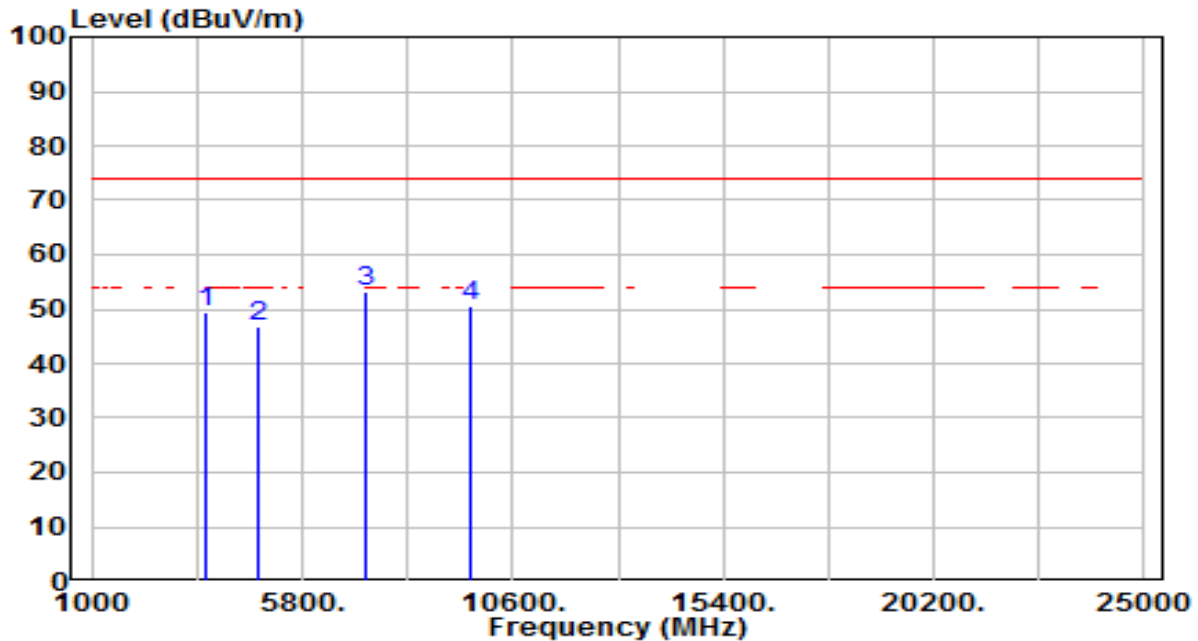


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3618.000	46.34	0.04	46.38	-27.62	74.00	100	360	Peak
2	4824.000	42.94	3.65	46.58	-27.42	74.00	100	360	Peak
3	* 7236.000	37.30	11.80	49.11	-24.89	74.00	100	360	Peak
4	9648.000	32.16	15.77	47.93	-26.07	74.00	100	360	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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

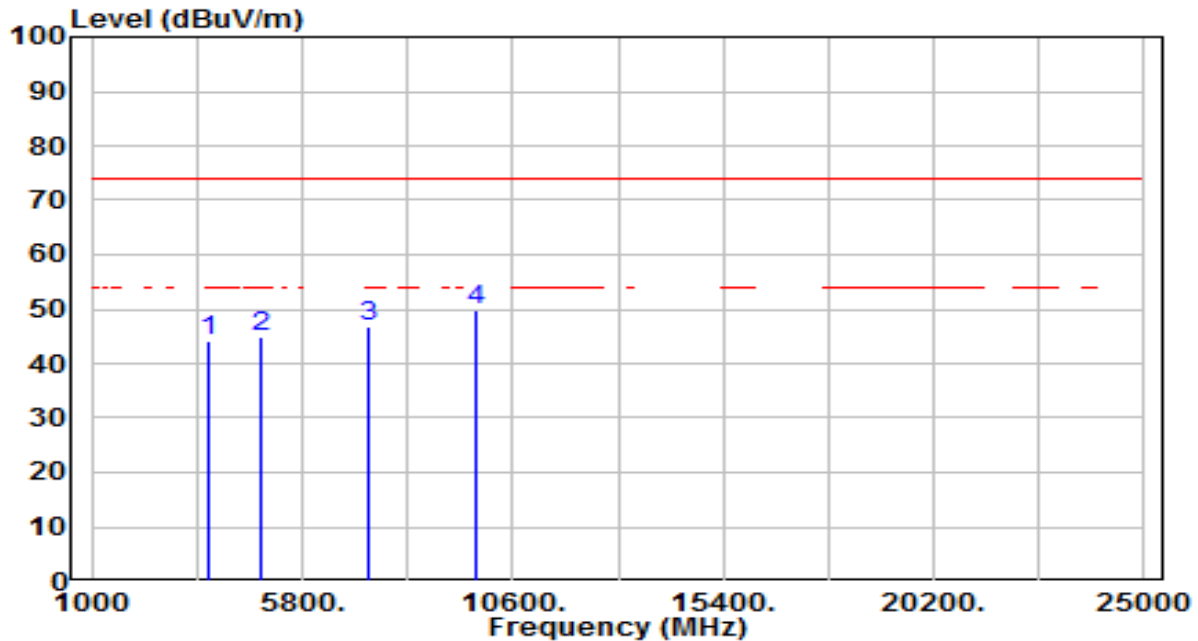


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3618.000	49.33	0.04	49.37	-24.63	74.00	100	360	Peak
2	4824.000	43.16	3.65	46.81	-27.19	74.00	100	360	Peak
3	* 7236.000	41.43	11.80	53.23	-20.77	74.00	100	360	Peak
4	9648.000	34.66	15.77	50.43	-23.57	74.00	100	360	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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

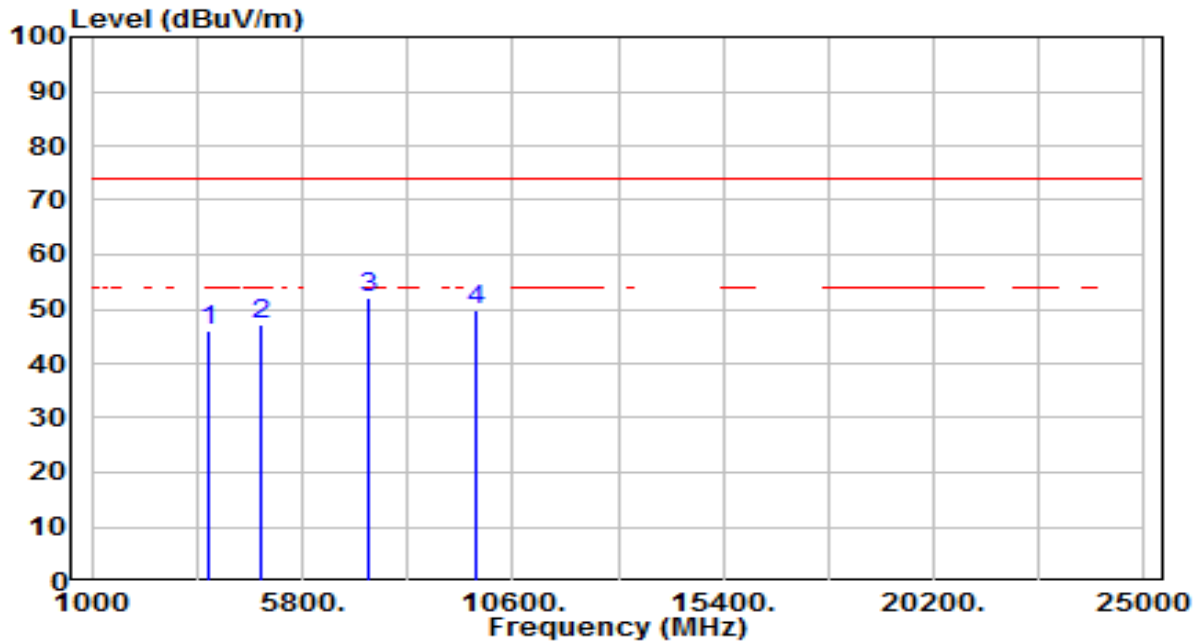


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3655.719	44.17	0.14	44.31	-29.69	74.00	100	360	Peak
2	4874.000	41.02	3.74	44.76	-29.24	74.00	100	360	Peak
3	7311.000	34.84	12.11	46.95	-27.05	74.00	100	360	Peak
4	* 9748.000	33.71	15.95	49.66	-24.34	74.00	100	360	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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

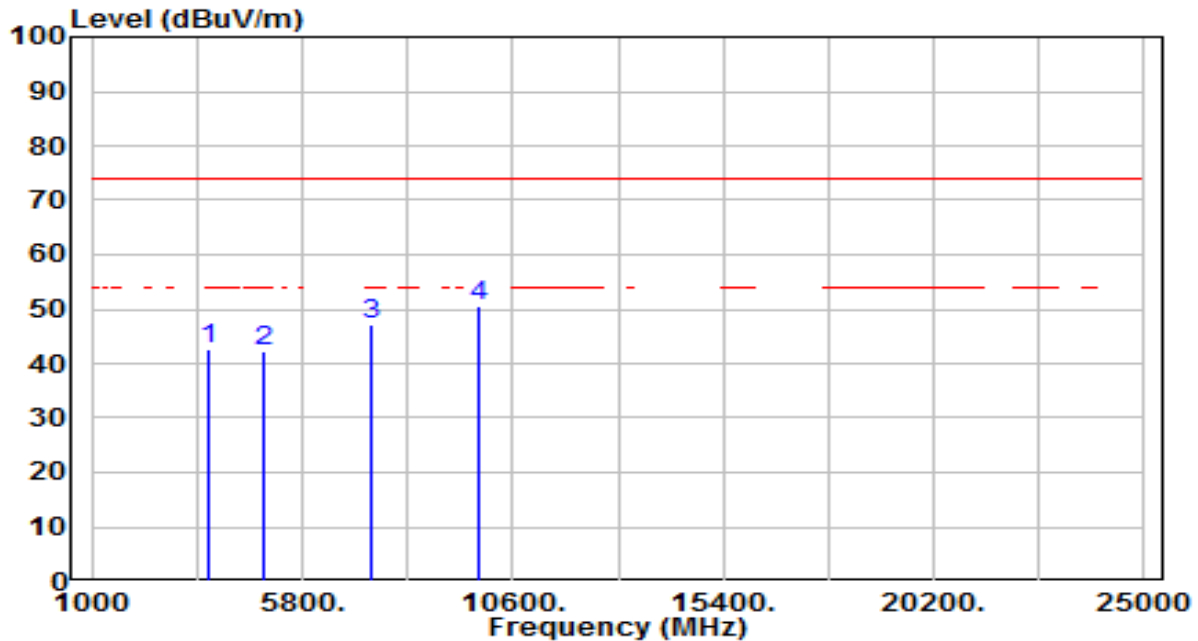


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3655.188	46.00	0.14	46.14	-27.86	74.00	100	360	Peak
2	4874.000	43.51	3.74	47.25	-26.75	74.00	100	360	Peak
3	* 7311.000	39.95	12.11	52.06	-21.94	74.00	100	360	Peak
4	9748.000	33.79	15.95	49.74	-24.26	74.00	100	360	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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

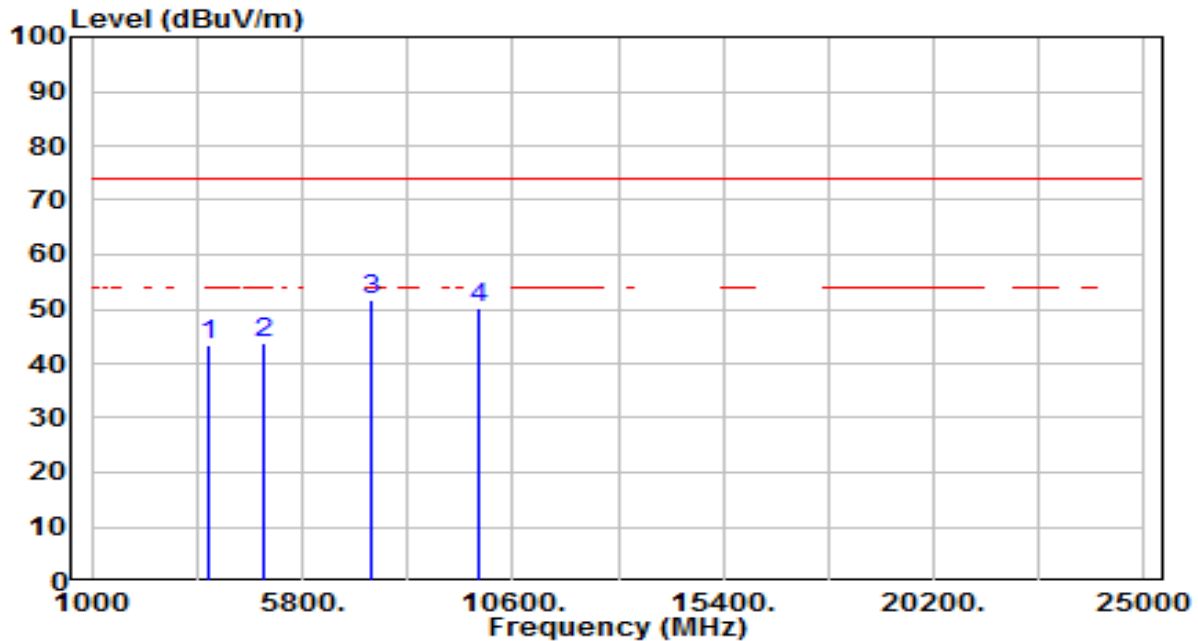


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3692.906	42.28	0.24	42.52	-31.48	74.00	100	360	Peak
2	4924.000	38.51	3.83	42.34	-31.66	74.00	100	360	Peak
3	7386.000	34.68	12.42	47.11	-26.89	74.00	100	360	Peak
4	* 9848.000	34.59	16.14	50.73	-23.27	74.00	100	360	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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

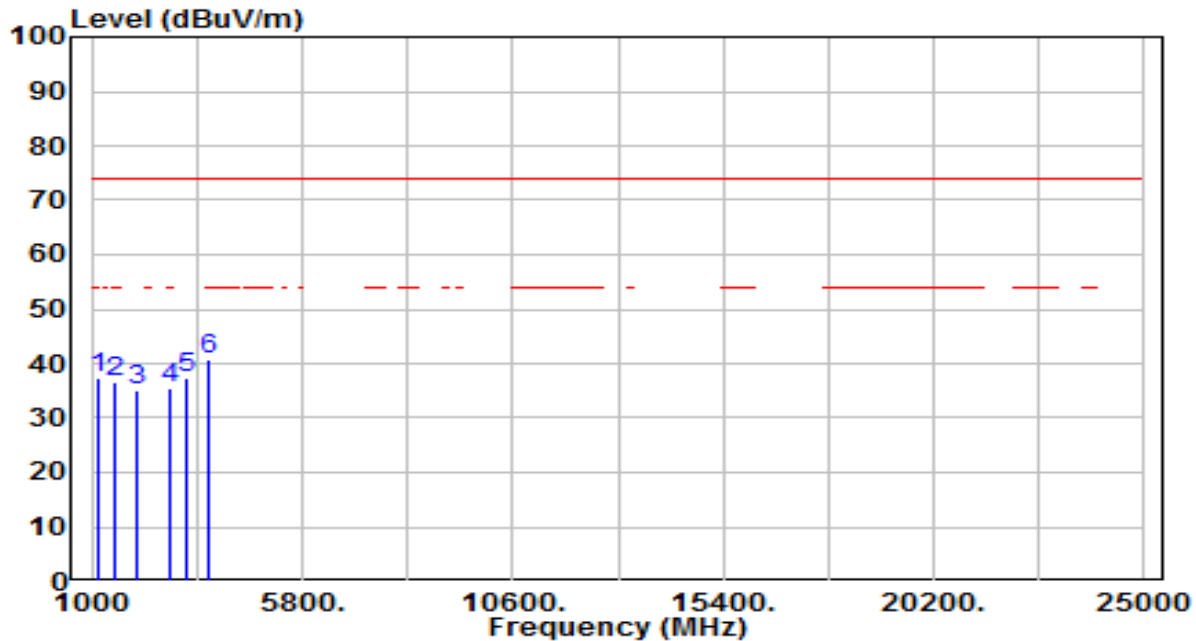


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3692.906	43.00	0.24	43.24	-30.76	74.00	100	360	Peak
2	4924.000	40.05	3.83	43.88	-30.12	74.00	100	360	Peak
3	* 7386.000	39.39	12.42	51.82	-22.18	74.00	100	360	Peak
4	9848.000	34.08	16.14	50.21	-23.79	74.00	100	360	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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11n-20MHz_RX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

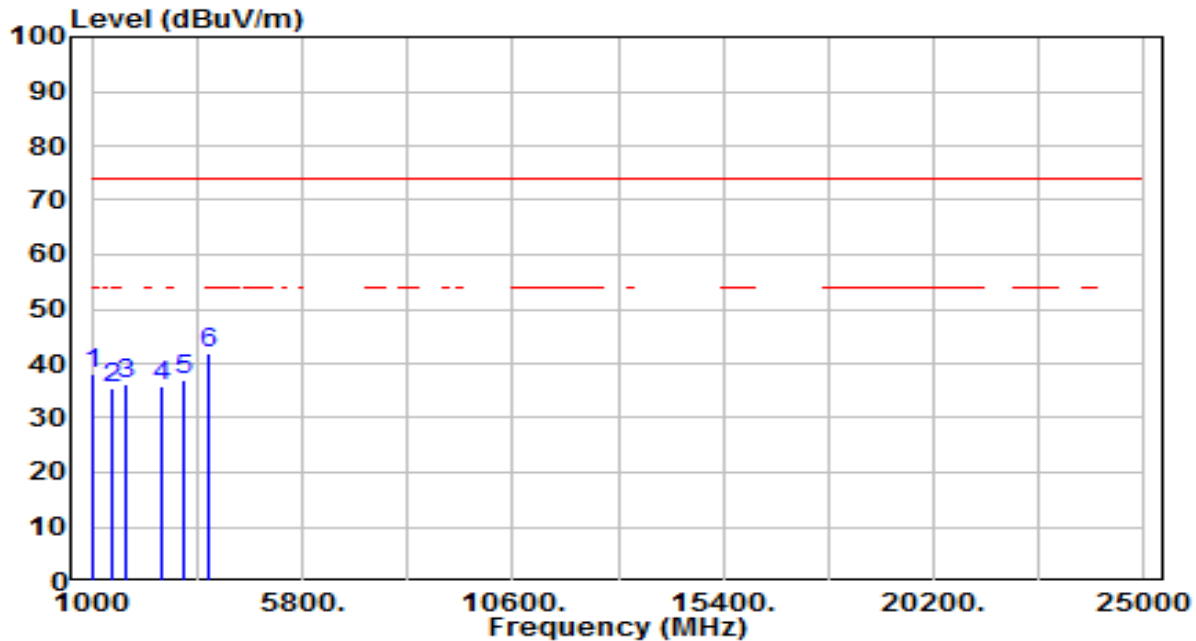


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	1128.563	42.96	-5.74	37.22	-36.78	74.00	100	360	Peak
2	1539.750	40.68	-4.13	36.55	-37.45	74.00	100	360	Peak
3	2051.344	38.07	-3.11	34.96	-39.04	74.00	100	360	Peak
4	2760.031	37.13	-1.82	35.31	-38.69	74.00	100	360	Peak
5	3147.313	38.72	-1.45	37.28	-36.72	74.00	100	360	Peak
6	* 3692.906	40.49	0.24	40.72	-33.28	74.00	100	360	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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11n-20MHz_RX_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	1043.031	44.16	-6.09	38.07	-35.93	74.00	100	360	Peak
2	1450.500	39.94	-4.40	35.53	-38.47	74.00	100	360	Peak
3	1762.344	39.79	-3.71	36.08	-37.92	74.00	100	360	Peak
4	2575.688	37.67	-1.73	35.94	-38.06	74.00	100	360	Peak
5	3091.531	38.44	-1.63	36.80	-37.20	74.00	100	360	Peak
6	* 3692.906	41.47	0.24	41.71	-32.29	74.00	100	360	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

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

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/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

All out of band emissions appearing in a restricted band as specified in Section 8.10 of the RSS-Gen must not exceed the limits shown in Table per Section 8.9.

RSS-Gen Section 8.9		
Frequency [MHz]	Field Strength [μA/m]	Measured Distance [Meters]
0.009 - 0.490	6.37/F (kHz)	300
0.490 - 1.705	63.7/F (kHz)	30
1.705 - 30	0.08	30
Frequency [MHz]	Field Strength [μV/m]	Measured Distance [Meters]
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

7.7.2. Test Procedure Used

ANSI C63.10- 2013 Section 6.3 & 6.6 & 11.13

7.7.3. Test Setting

Peak Field Strength Measurements

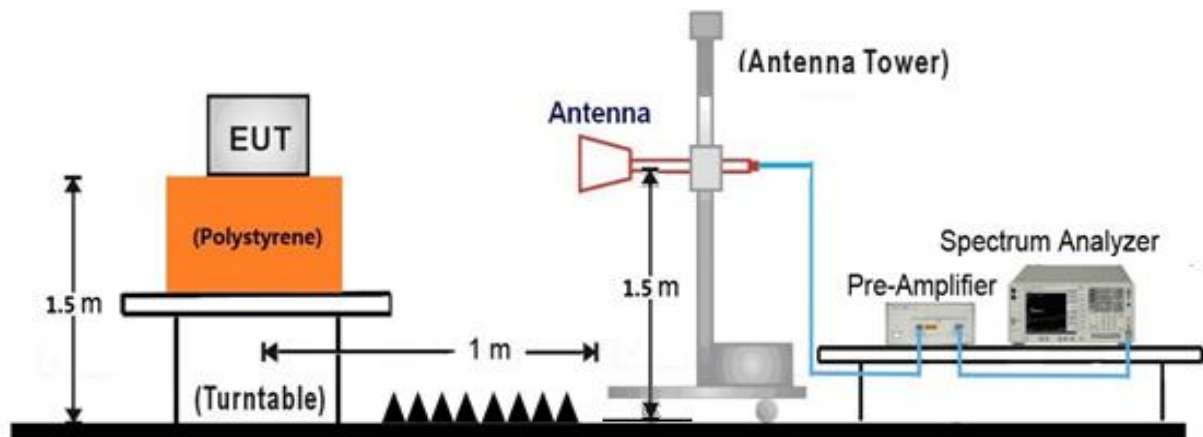
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. $VBW \geq 1/T$
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

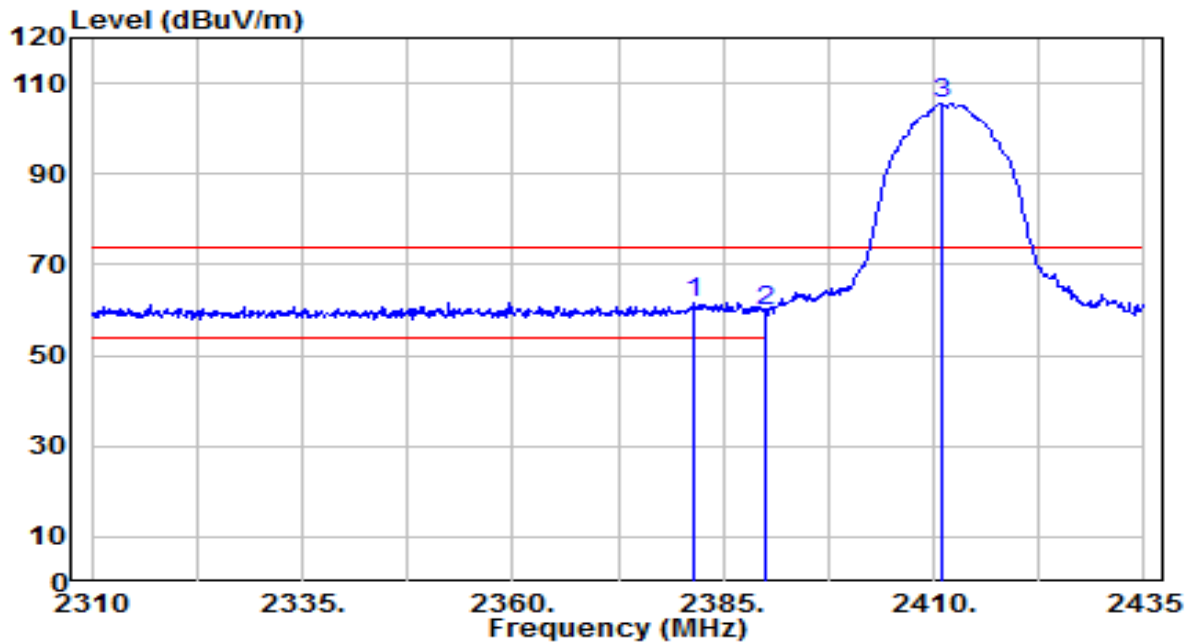
7.7.4. Test Setup

1GHz ~ 18GHz Test Setup:



7.7.5. Test Result

EUT	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

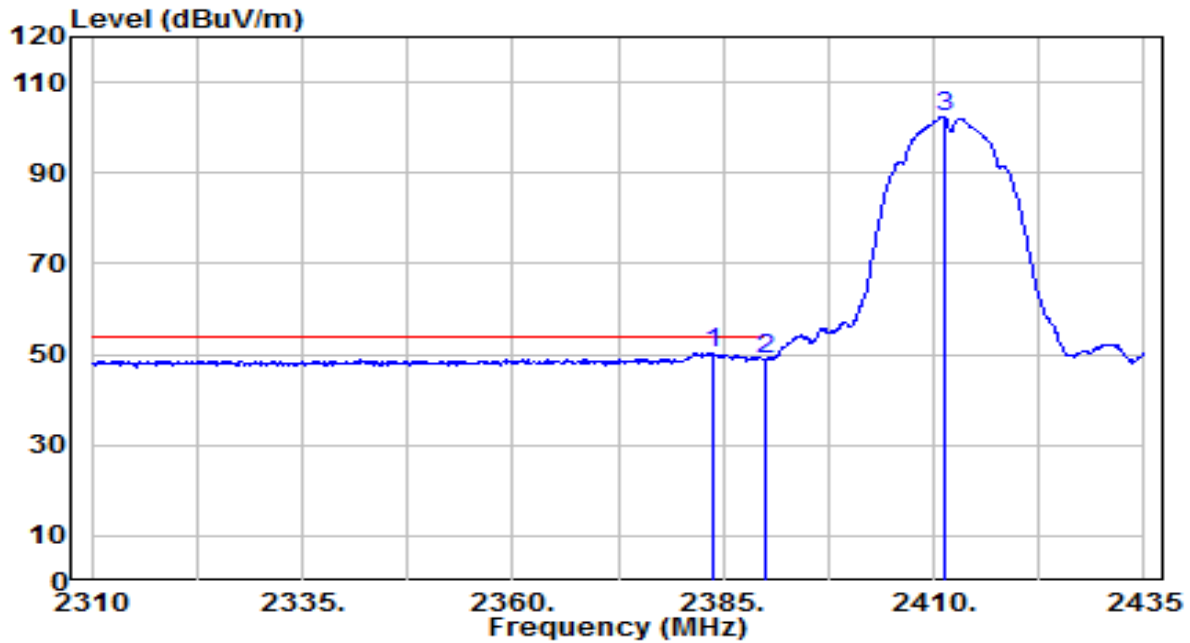


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2381.500	29.50	32.25	61.76	-12.24	74.00	120	75	Peak
2	2390.000	27.64	32.28	59.92	-14.08	74.00	120	75	Peak
3	2411.000	73.15	32.36	105.51	N/A	N/A	120	75	Peak

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

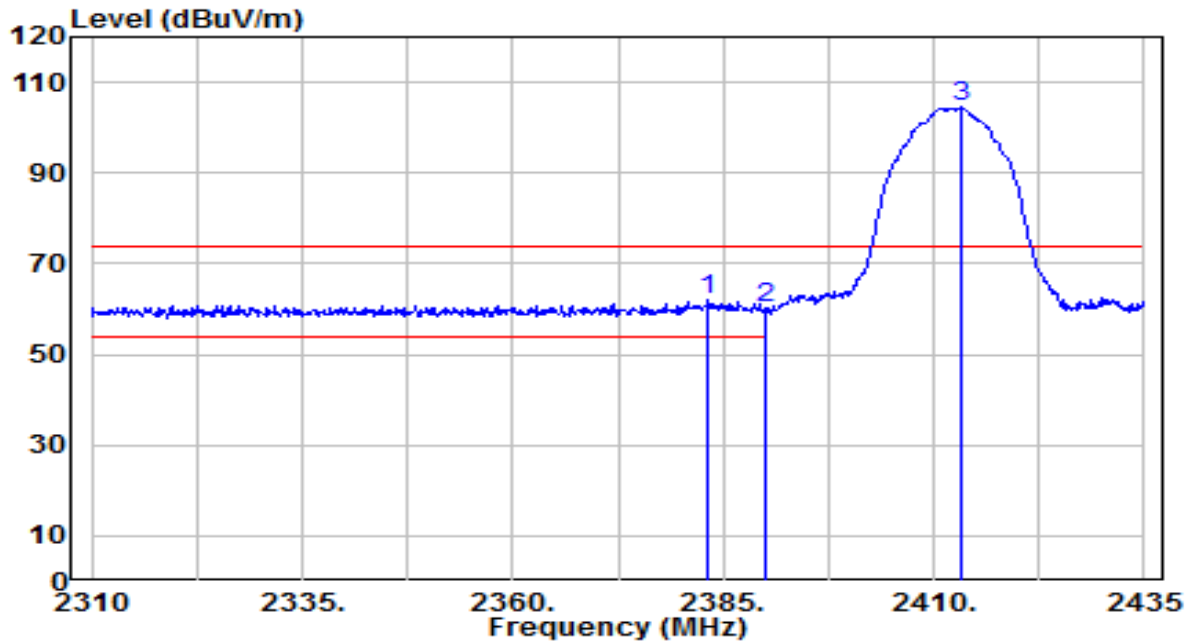


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2383.750	18.11	32.26	50.37	-3.63	54.00	120	75	Average
2	2390.000	16.49	32.28	48.78	-5.22	54.00	120	75	Average
3	2411.250	70.02	32.36	102.38	N/A	N/A	120	75	Average

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

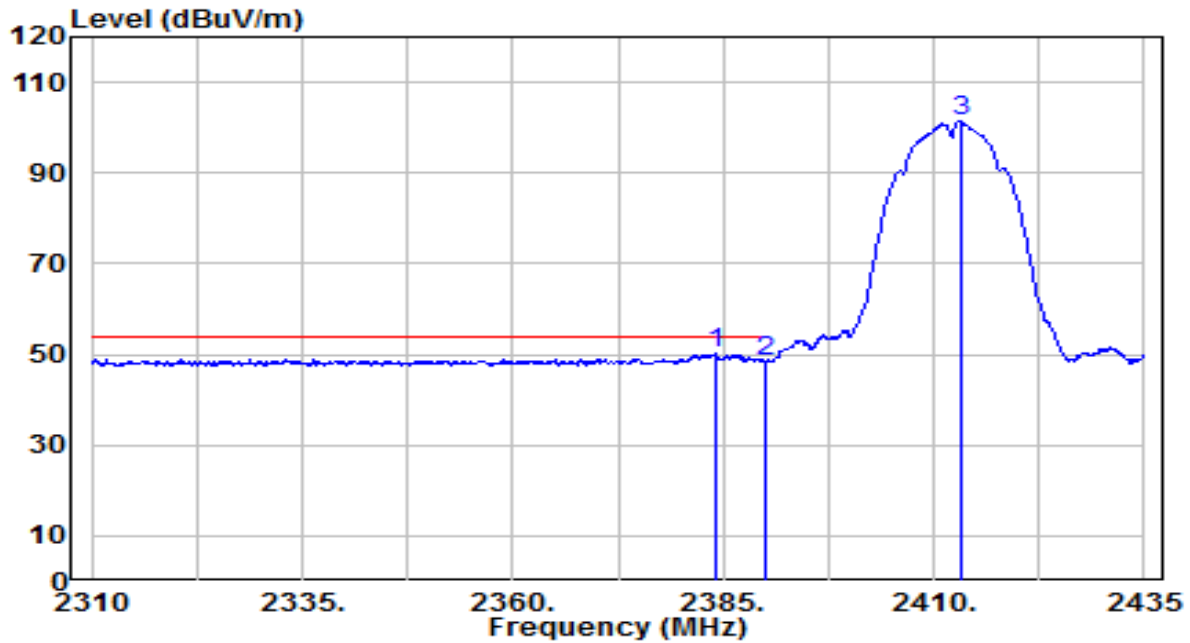


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2383.250	29.59	32.26	61.85	-12.15	74.00	110	65	Peak
2		2390.000	27.73	32.28	60.01	-13.99	74.00	110	65	Peak
3		2413.125	72.07	32.37	104.44	N/A	N/A	110	65	Peak

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

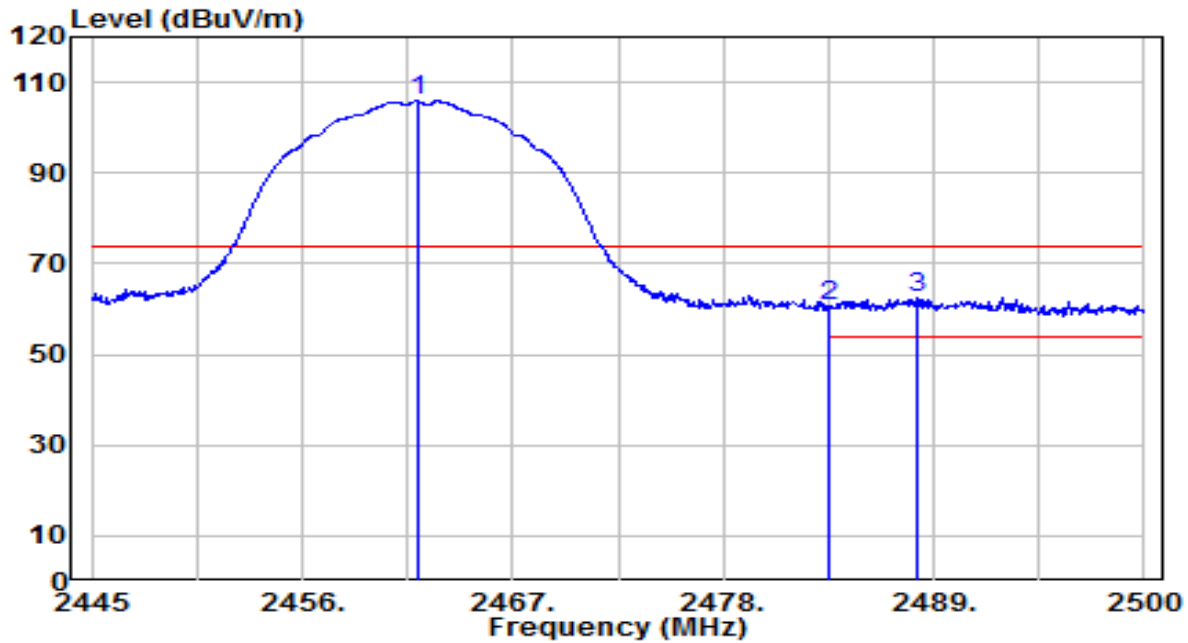


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2384.000	17.81	32.26	50.07	-3.93	54.00	110	65	Average
2		2390.000	16.20	32.28	48.49	-5.51	54.00	110	65	Average
3		2413.125	69.05	32.37	101.42	N/A	N/A	110	65	Average

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

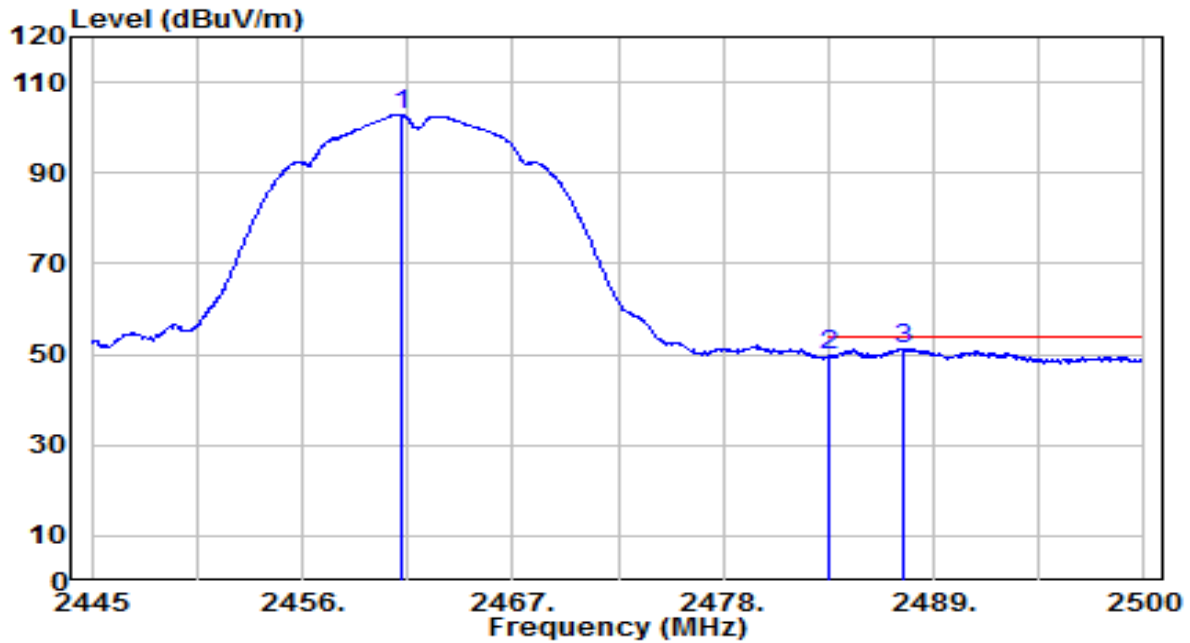


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2461.995	73.27	32.54	105.82	N/A	N/A	115	70	Peak
2	2483.500	27.84	32.62	60.46	-13.54	74.00	115	70	Peak
3	* 2488.120	29.92	32.64	62.56	-11.44	74.00	115	70	Peak

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

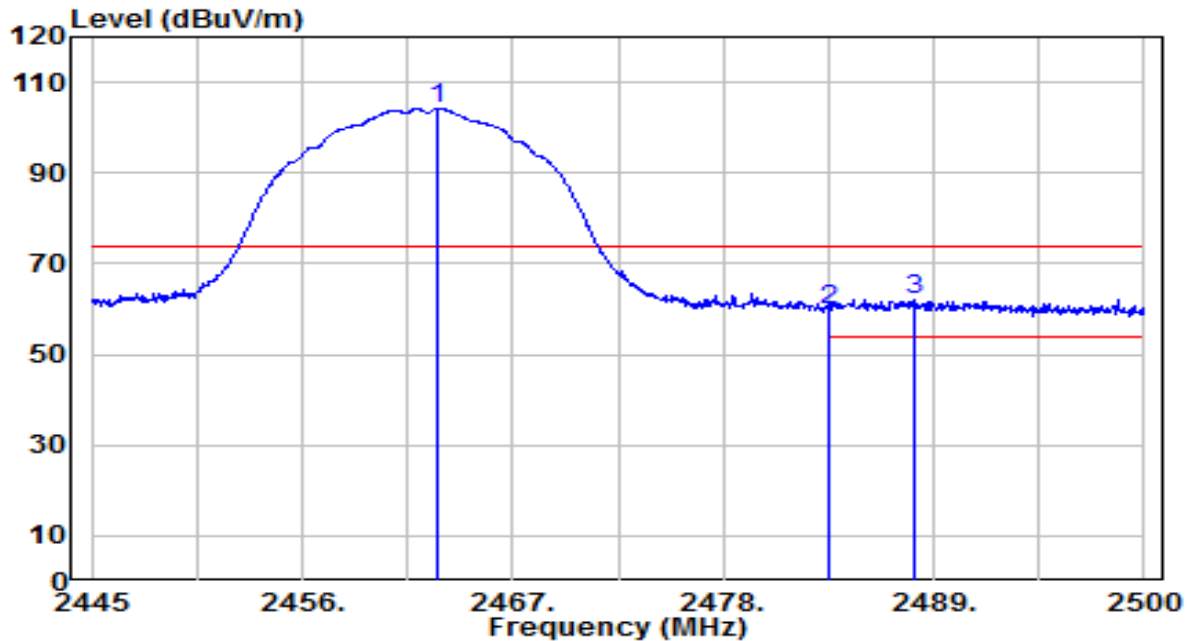


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2461.170	70.33	32.54	102.87	N/A	N/A	115	70	Average
2	2483.500	16.99	32.62	49.61	-4.39	54.00	115	70	Average
3	* 2487.350	18.66	32.63	51.30	-2.70	54.00	115	70	Average

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

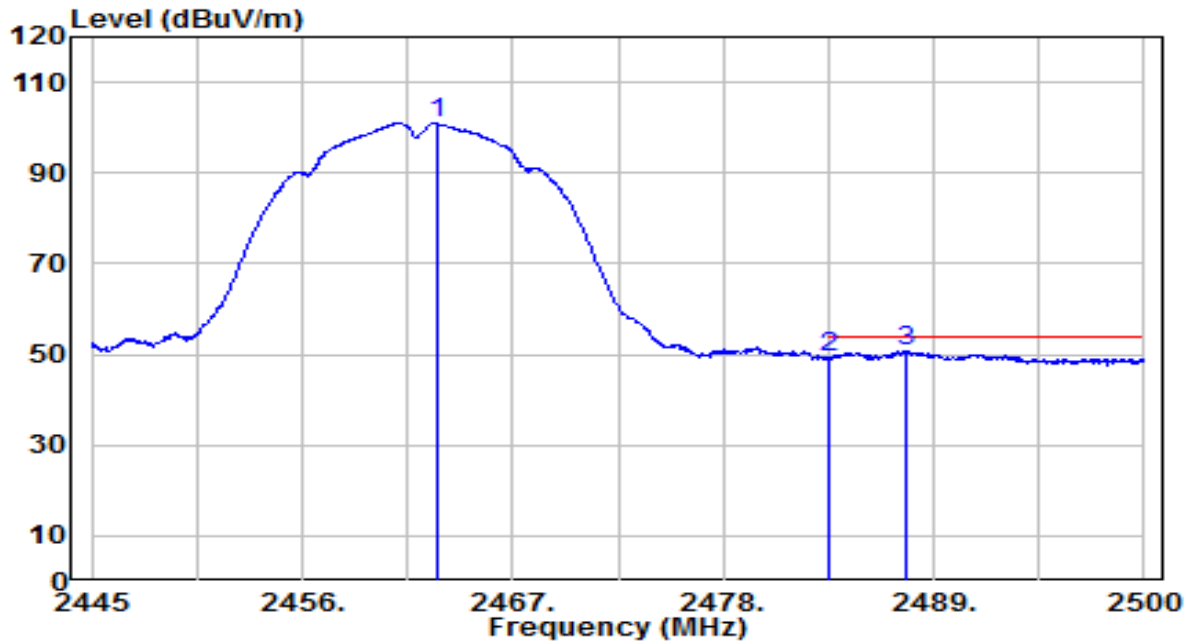


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2463.095	71.62	32.55	104.17	N/A	N/A	145	65	Peak
2	2483.500	27.36	32.62	59.98	-14.02	74.00	145	65	Peak
3	* 2487.955	29.62	32.64	62.26	-11.74	74.00	145	65	Peak

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

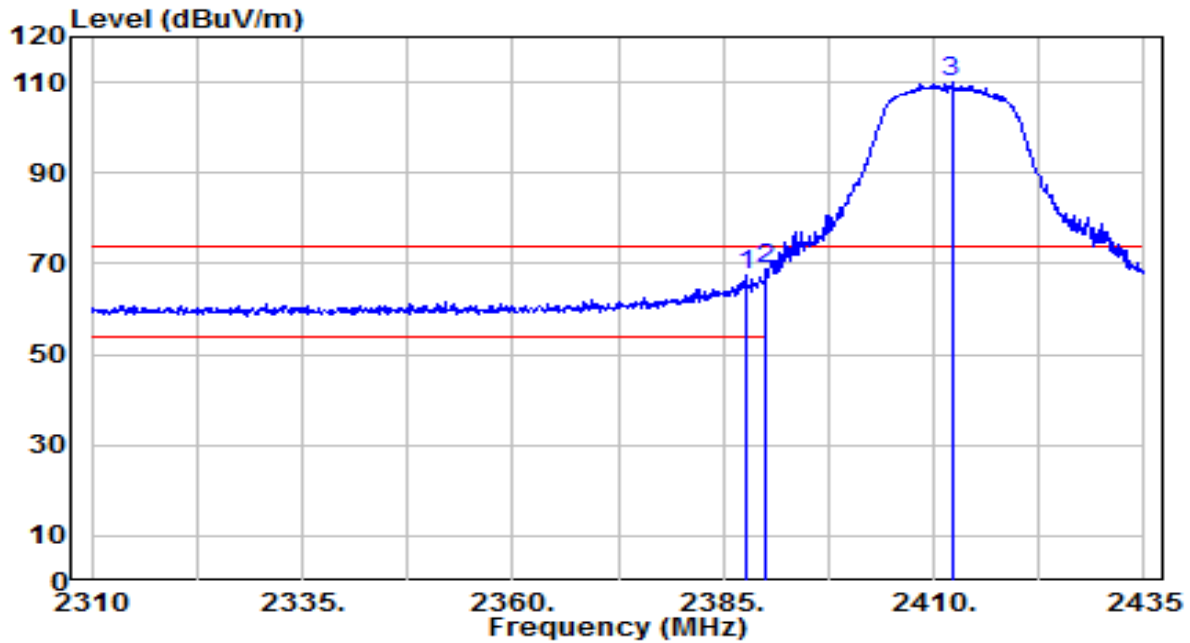


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2463.040	68.50	32.55	101.04	N/A	N/A	145	65	Average
2	2483.500	16.63	32.62	49.25	-4.75	54.00	145	65	Average
3	* 2487.625	18.09	32.64	50.73	-3.27	54.00	145	65	Average

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

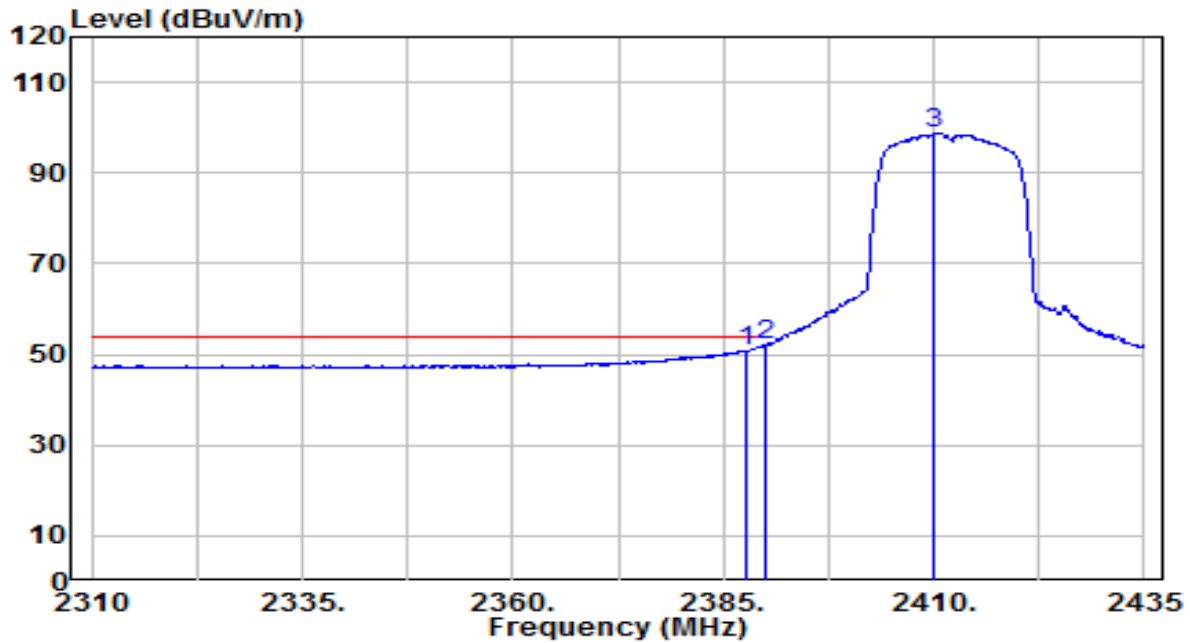


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2387.625	35.00	32.28	67.27	-6.73	74.00	120	75	Peak
2	* 2390.000	36.77	32.28	69.06	-4.94	74.00	120	75	Peak
3	2412.125	77.70	32.36	110.06	N/A	N/A	120	75	Peak

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

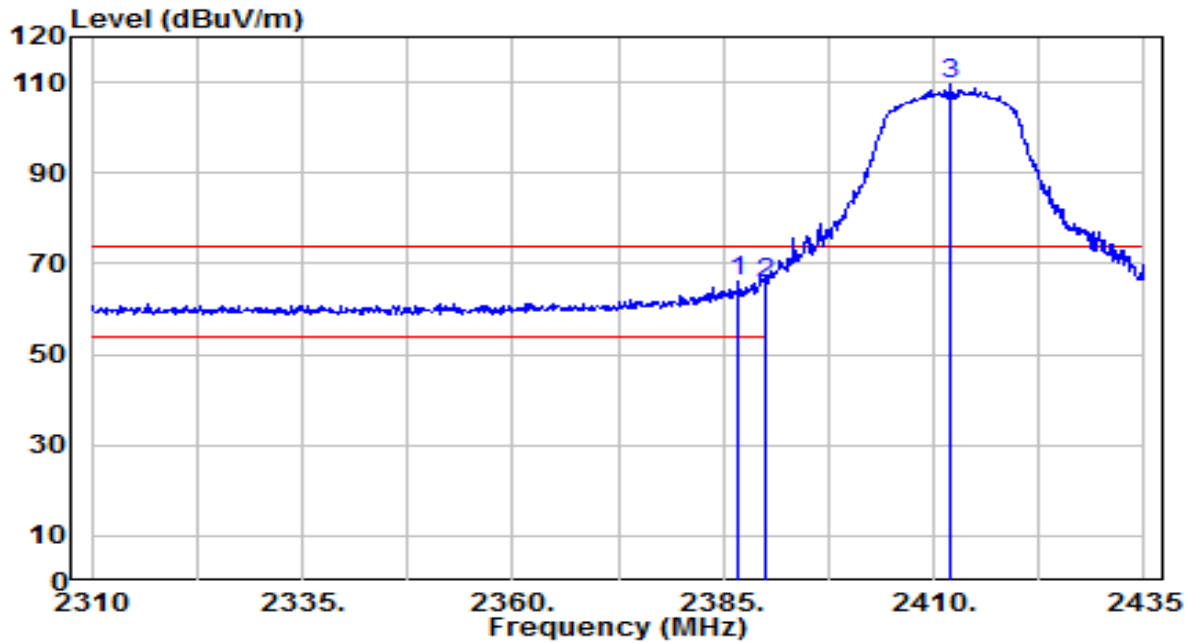


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2387.625	18.63	32.28	50.91	-3.09	54.00	120	75	Average
2	* 2390.000	19.57	32.28	51.85	-2.15	54.00	120	75	Average
3	2410.000	66.42	32.36	98.77	N/A	N/A	120	75	Average

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

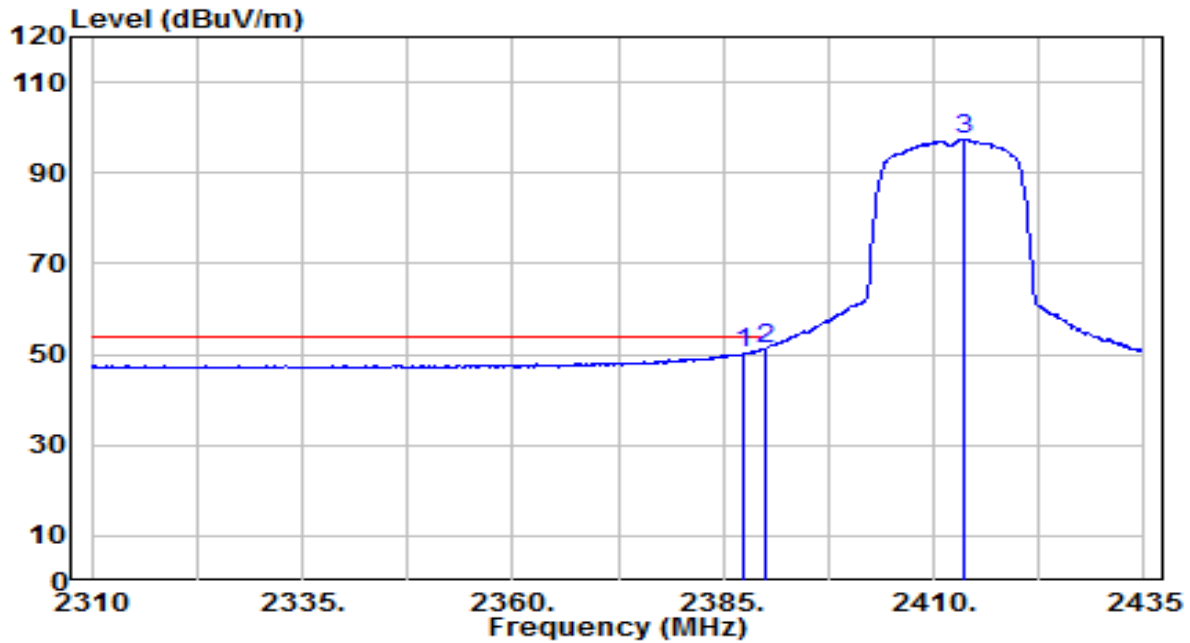


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2386.875	33.63	32.27	65.90	-8.10	74.00	110	65	Peak
2		2390.000	33.33	32.28	65.61	-8.39	74.00	110	65	Peak
3		2412.000	77.00	32.36	109.37	N/A	N/A	110	65	Peak

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

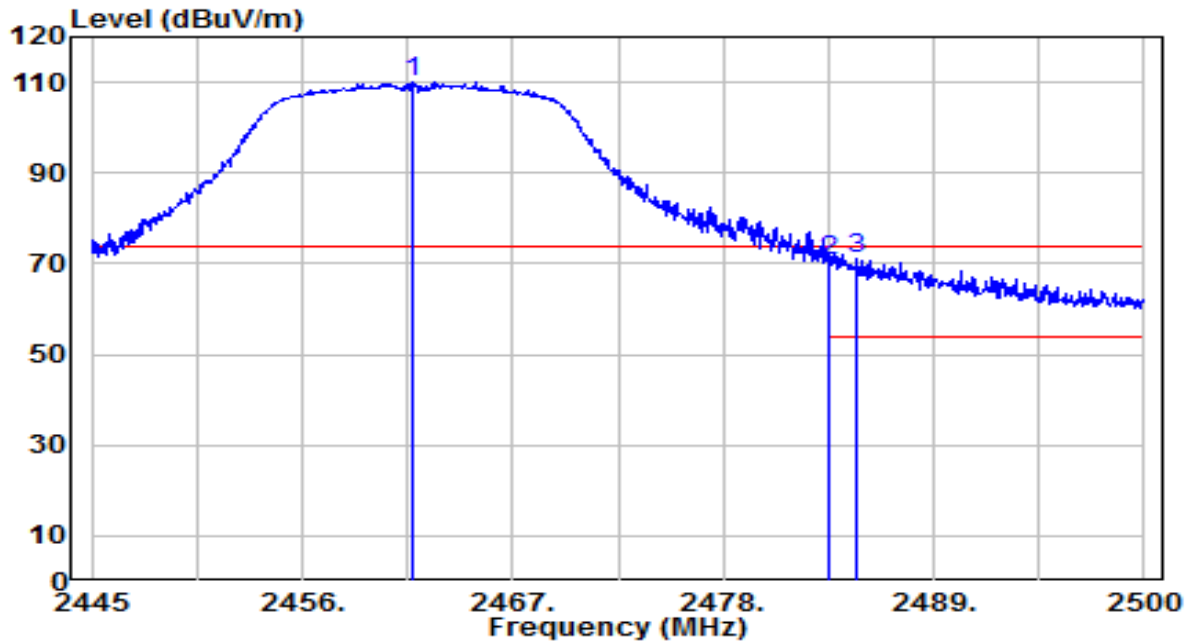


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2387.500	18.13	32.28	50.41	-3.59	54.00	110	65	Average
2	* 2390.000	18.92	32.28	51.20	-2.80	54.00	110	65	Average
3	2413.500	64.99	32.37	97.35	N/A	N/A	110	65	Average

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

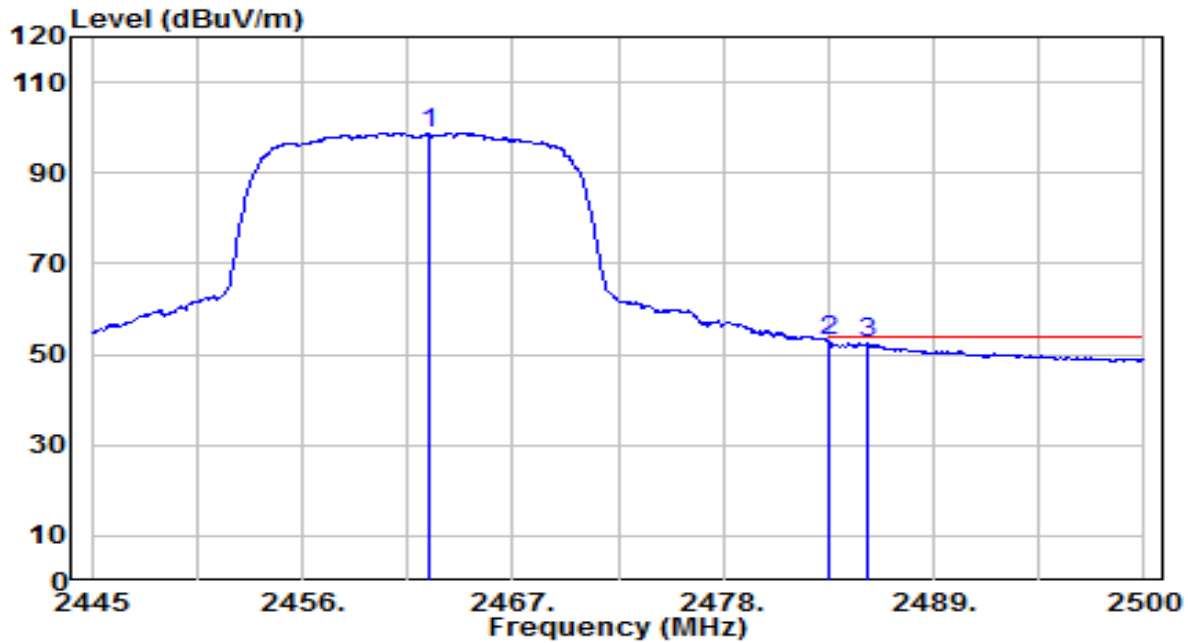


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2461.720	77.62	32.54	110.16	N/A	N/A	115	70	Peak
2	2483.500	37.83	32.62	70.45	-3.55	74.00	115	70	Peak
3	* 2484.985	38.29	32.63	70.92	-3.08	74.00	115	70	Peak

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

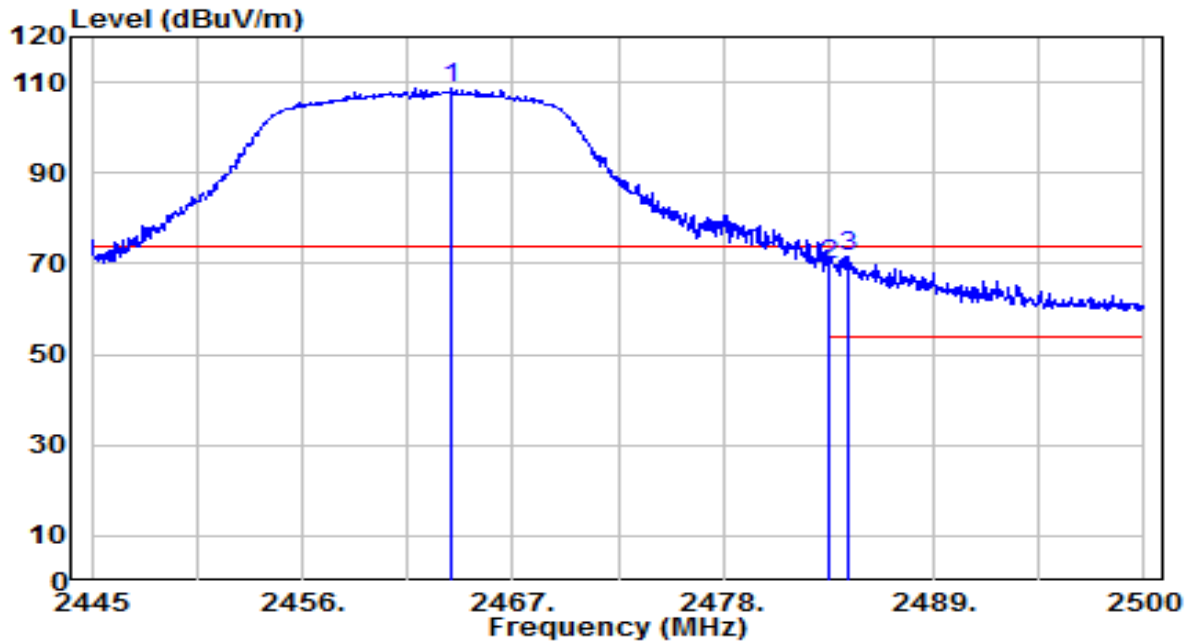


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2462.655	66.40	32.55	98.94	N/A	N/A	115	70	Average
2	* 2483.500	20.49	32.62	53.11	-0.89	54.00	115	70	Average
3	2485.480	19.73	32.63	52.36	-1.64	54.00	115	70	Average

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

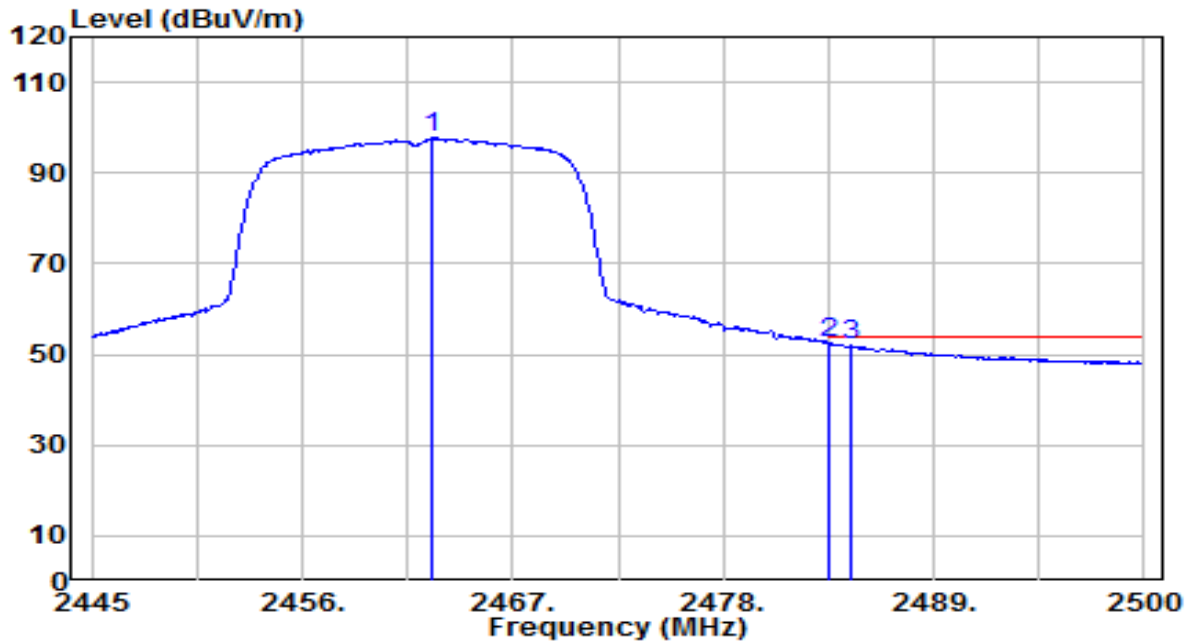


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2463.810	76.15	32.55	108.70	N/A	N/A	145	65	Peak
2	2483.500	37.13	32.62	69.75	-4.25	74.00	145	65	Peak
3	* 2484.545	38.96	32.62	71.58	-2.42	74.00	145	65	Peak

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

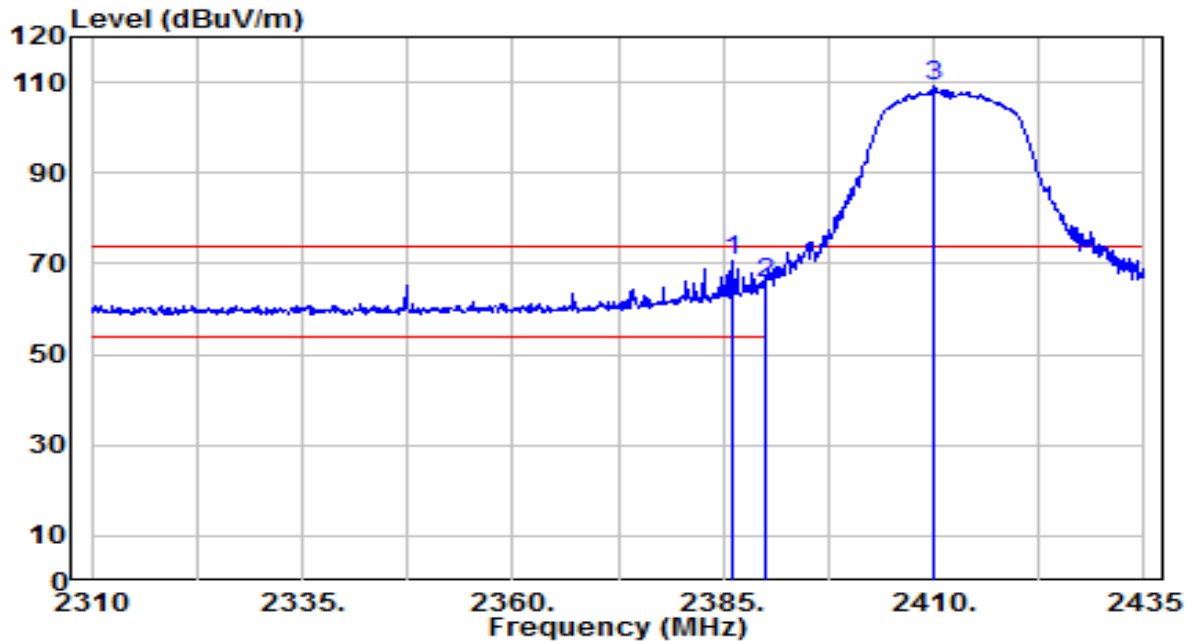


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2462.765	65.19	32.55	97.73	N/A	N/A	145	65	Average
2	* 2483.500	20.07	32.62	52.69	-1.31	54.00	145	65	Average
3	2484.655	19.23	32.62	51.85	-2.15	54.00	145	65	Average

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

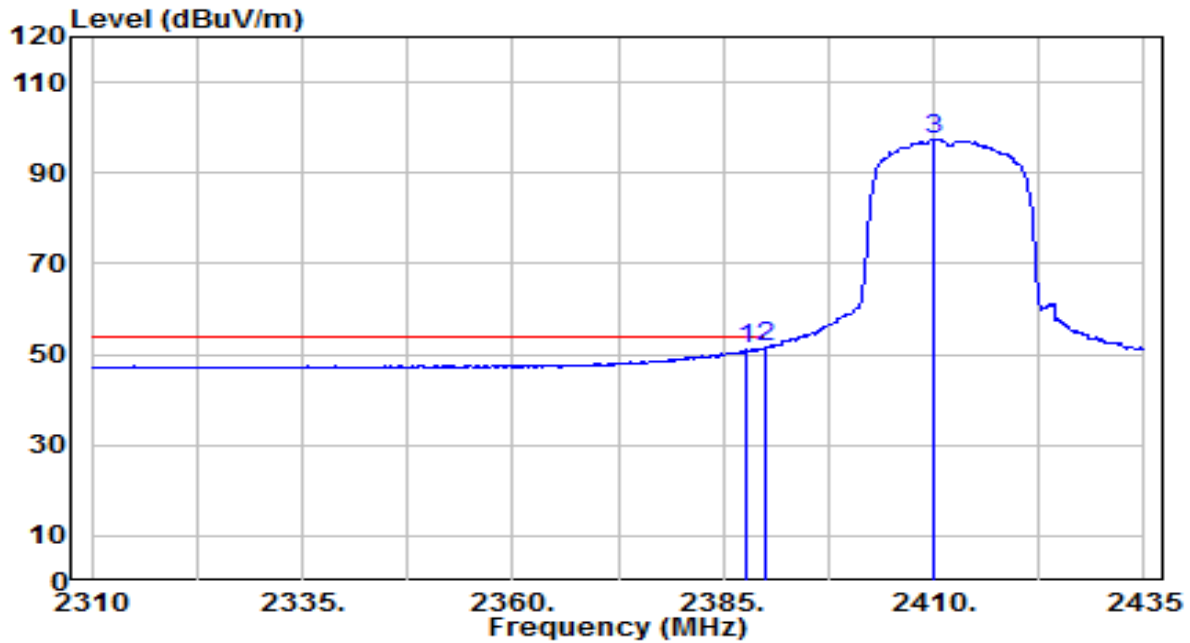


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2386.250	38.38	32.27	70.65	-3.35	74.00	120	75	Peak
2		2390.000	33.19	32.28	65.47	-8.53	74.00	120	75	Peak
3		2409.875	76.87	32.36	109.23	N/A	N/A	120	75	Peak

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

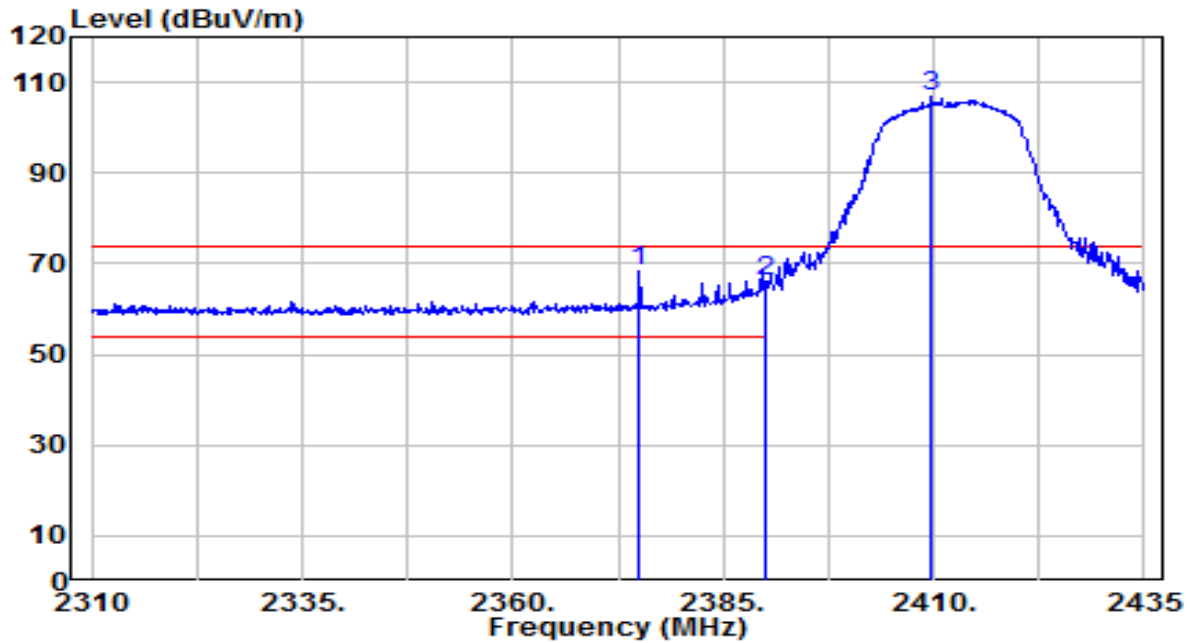


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2387.750	18.73	32.28	51.00	-3.00	54.00	120	75	Average
2	* 2390.000	19.28	32.28	51.57	-2.43	54.00	120	75	Average
3	2410.000	65.11	32.36	97.47	N/A	N/A	120	75	Average

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

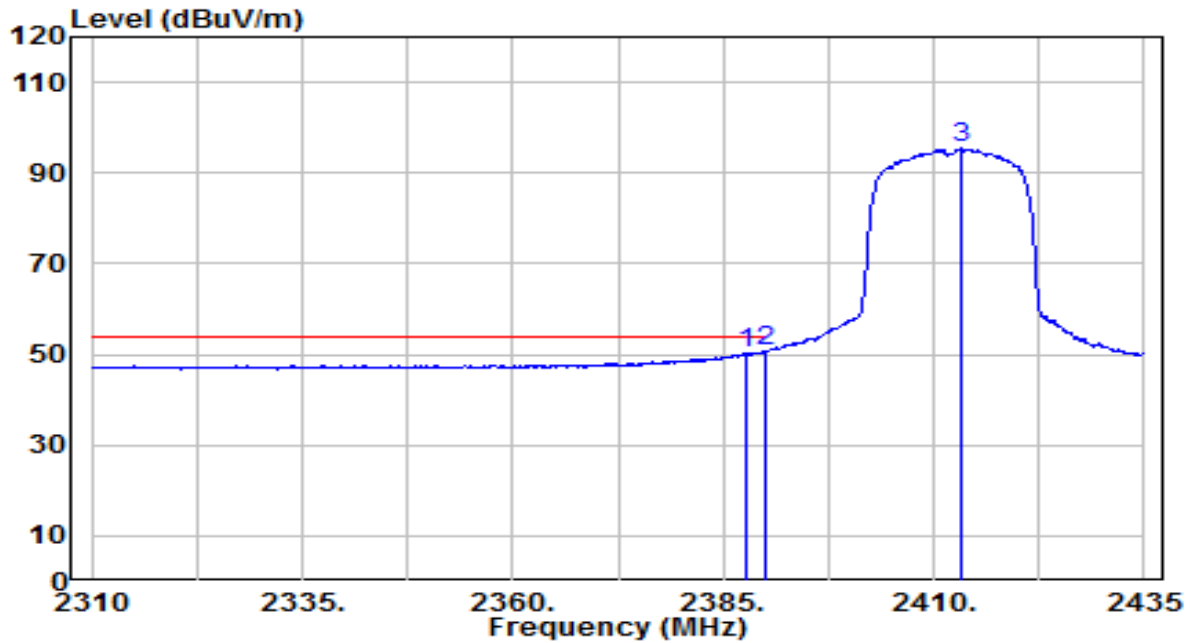


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2375.000	36.06	32.23	68.29	-5.71	74.00	110	65	Peak
2	2390.000	33.63	32.28	65.92	-8.08	74.00	110	65	Peak
3	2409.750	74.61	32.36	106.96	N/A	N/A	110	65	Peak

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

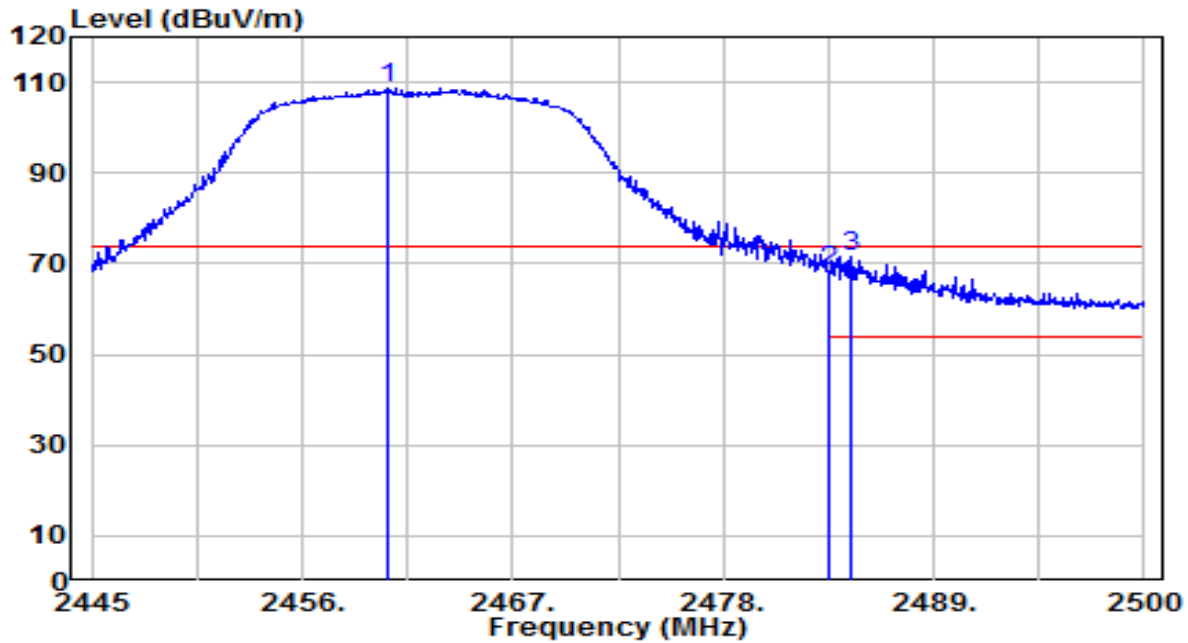


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2387.750	18.09	32.28	50.37	-3.63	54.00	110	65	Average
2	* 2390.000	18.21	32.28	50.49	-3.51	54.00	110	65	Average
3	2413.375	62.98	32.37	95.35	N/A	N/A	110	65	Average

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

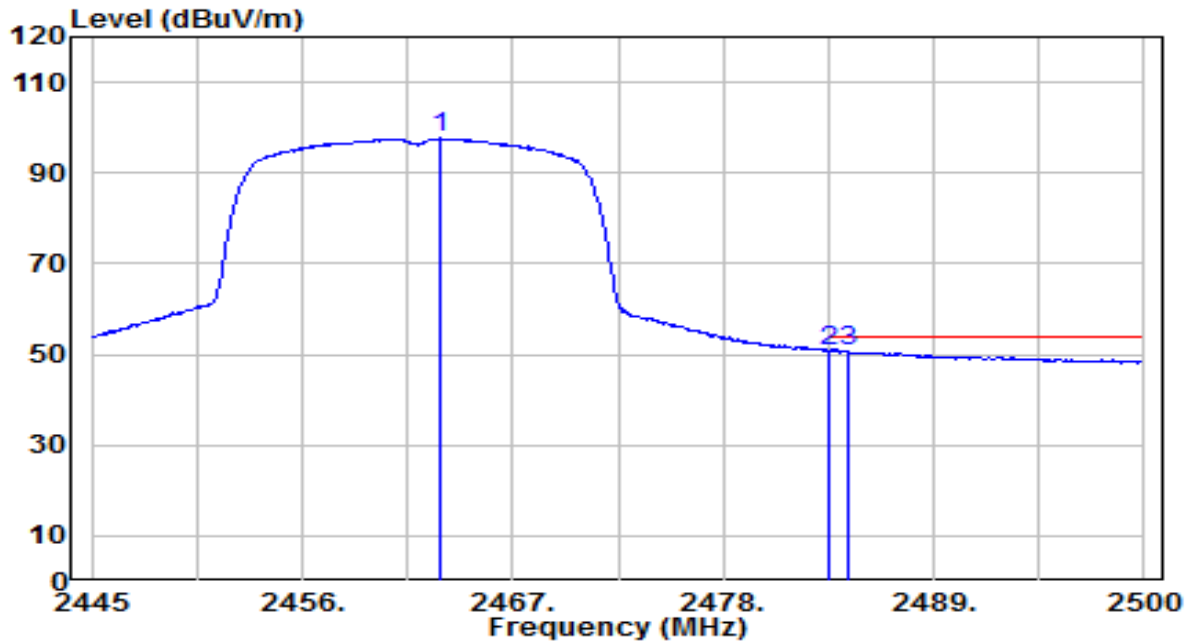


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2460.455	76.09	32.54	108.63	N/A	N/A	115	70	Peak
2	2483.500	35.94	32.62	68.56	-5.44	74.00	115	70	Peak
3	* 2484.655	38.97	32.62	71.59	-2.41	74.00	115	70	Peak

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

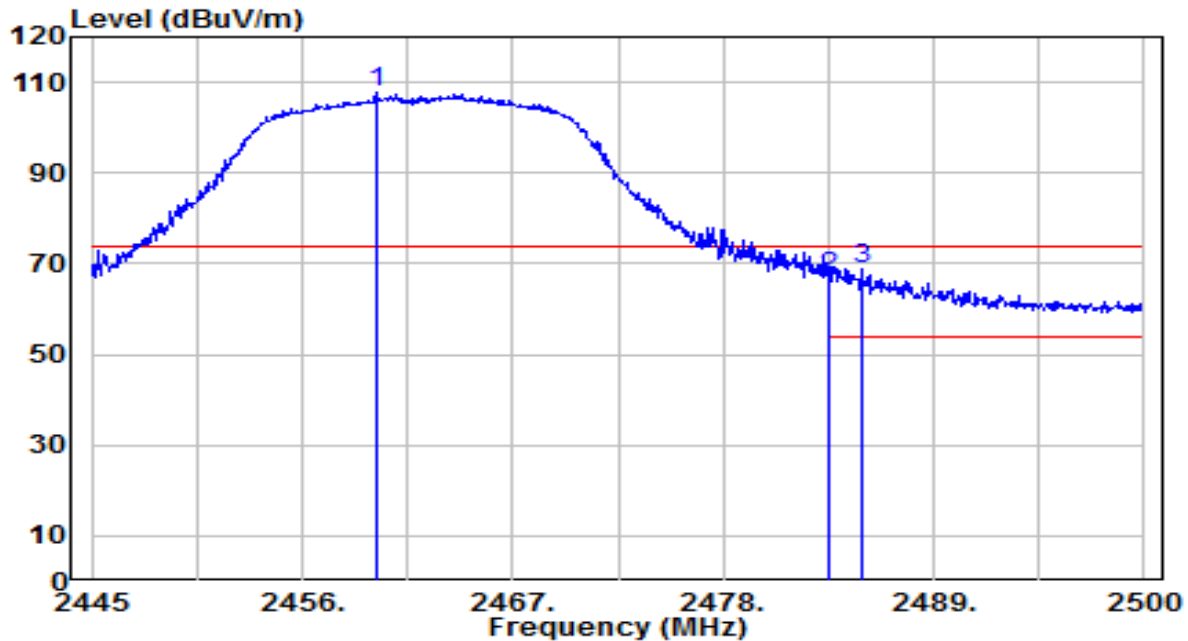


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2463.260	65.05	32.55	97.60	N/A	N/A	115	70	Average
2	* 2483.500	18.04	32.62	50.66	-3.34	54.00	115	70	Average
3	2484.600	17.98	32.62	50.60	-3.40	54.00	115	70	Average

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

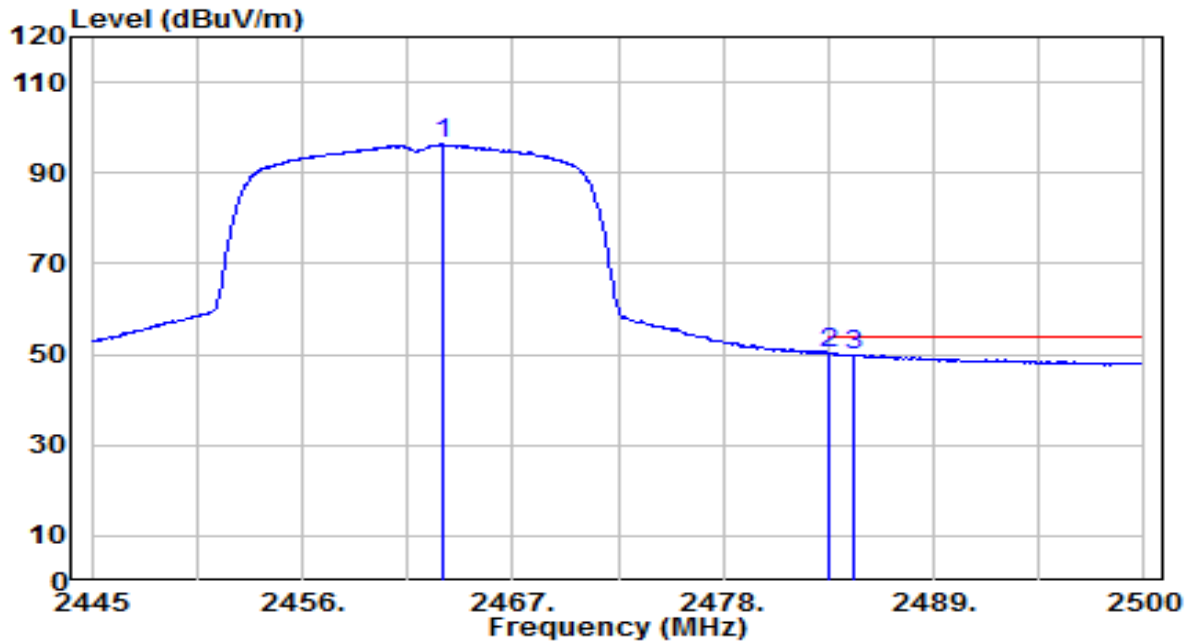


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2459.850	75.45	32.54	107.98	N/A	N/A	145	65	Peak
2	2483.500	34.59	32.62	67.21	-6.79	74.00	145	65	Peak
3	* 2485.205	36.36	32.63	68.99	-5.01	74.00	145	65	Peak

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	POS Terminal	Date of Test	2022-12-01
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11n-20MHz_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	63.71	32.55	96.26	N/A	N/A	145	65	Average
2	* 2483.500	17.58	32.62	50.21	-3.79	54.00	145	65	Average
3	2484.765	17.35	32.63	49.98	-4.02	54.00	145	65	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

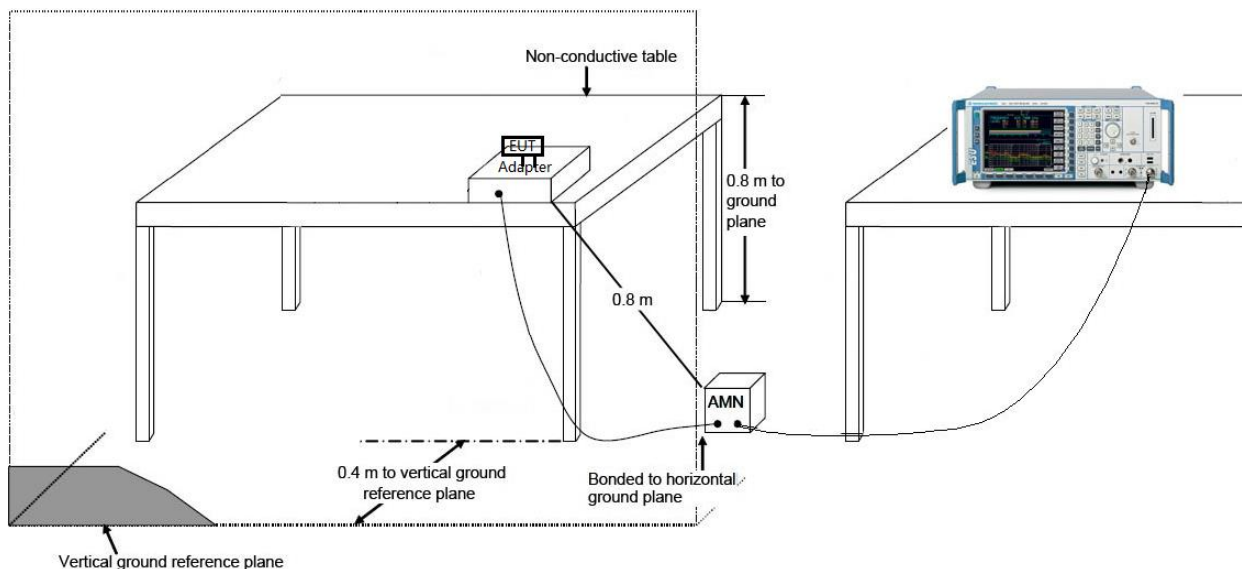
7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 / RSS-Gen Limits		
Frequency (MHz)	QP (dB μ V)	Average (dB μ V)
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.

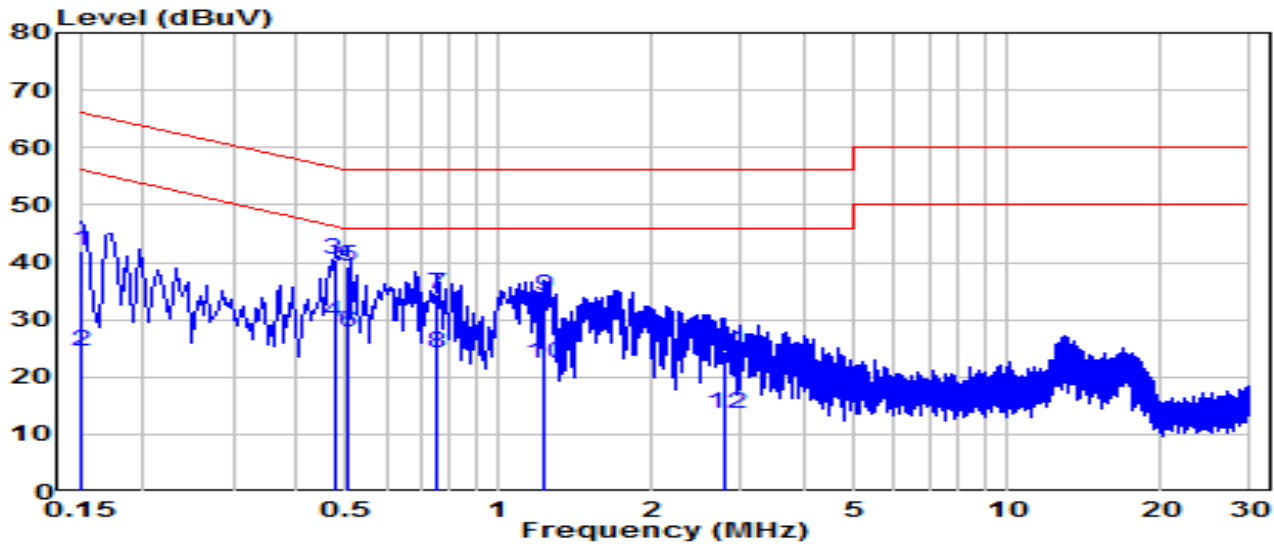
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



7.8.3. Test Result

EUT	POS Terminal	Date of Test	2022-12-05
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	23.5°C /66%
Polarity	Line1	Site / Test Engineer	SR2 / Amber
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

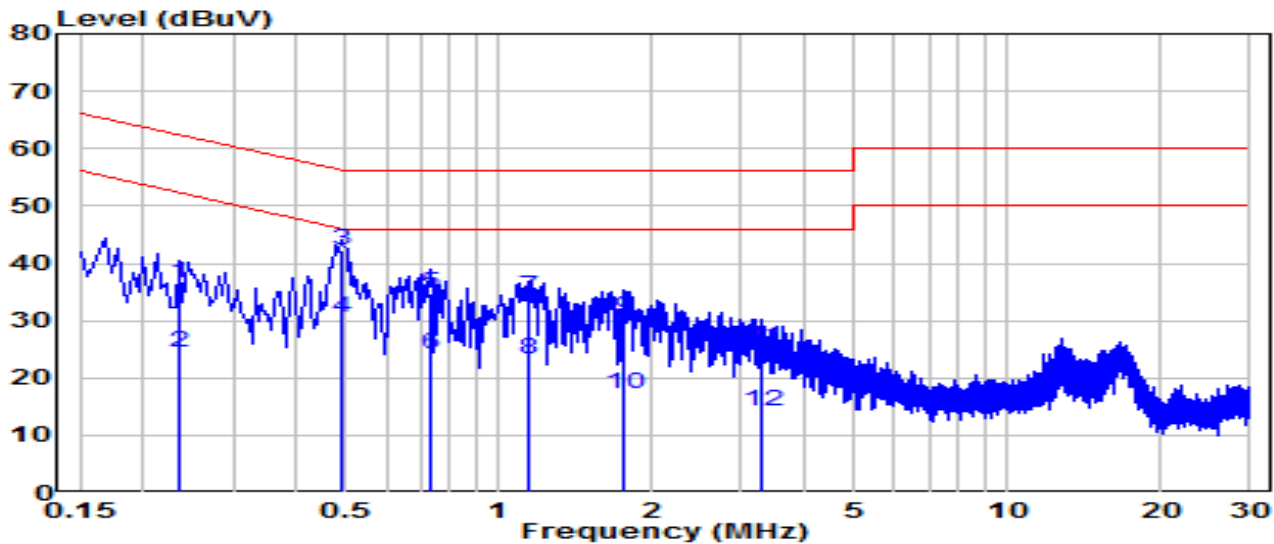


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.150	32.24	9.62	41.86	-24.14	66.00	QP
2	0.150	14.92	9.62	24.54	-31.46	56.00	Average
3	* 0.474	30.81	9.64	40.45	-15.99	56.44	QP
4	* 0.474	20.09	9.64	29.73	-16.71	46.44	Average
5	0.505	29.68	9.64	39.32	-16.68	56.00	QP
6	0.505	18.00	9.64	27.64	-18.36	46.00	Average
7	0.757	24.90	9.66	34.56	-21.44	56.00	QP
8	0.757	14.62	9.66	24.27	-21.73	46.00	Average
9	1.234	24.39	9.67	34.07	-21.93	56.00	QP
10	1.234	12.70	9.67	22.37	-23.63	46.00	Average
11	2.791	14.76	9.71	24.47	-31.53	56.00	QP
12	2.791	3.77	9.71	13.48	-32.52	46.00	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	POS Terminal	Date of Test	2022-12-05
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	23.5°C / 66%
Polarity	Neutral	Site / Test Engineer	SR2 / Amber
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

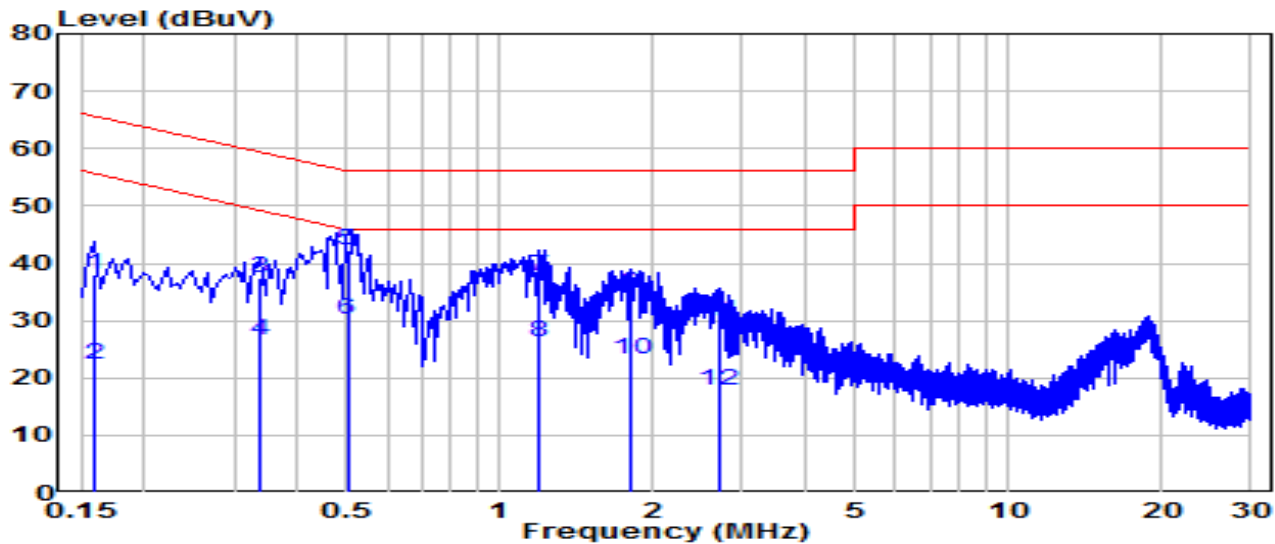


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.235	27.05	9.62	36.68	-25.57	62.25	QP
2	0.235	14.83	9.62	24.45	-27.80	52.25	Average
3	*	0.487	9.64	42.12	-14.09	56.21	QP
4	*	0.487	9.64	30.56	-15.65	46.21	Average
5	0.730	25.18	9.65	34.84	-21.16	56.00	QP
6	0.730	14.53	9.65	24.19	-21.81	46.00	Average
7	1.149	24.30	9.67	33.97	-22.03	56.00	QP
8	1.149	13.55	9.67	23.22	-22.78	46.00	Average
9	1.770	20.71	9.69	30.40	-25.60	56.00	QP
10	1.770	7.63	9.69	17.32	-28.68	46.00	Average
11	3.304	15.62	9.72	25.34	-30.66	56.00	QP
12	3.304	4.61	9.72	14.32	-31.68	46.00	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	POS Terminal	Date of Test	2022-12-05
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	23.5°C /66%
Polarity	Line1	Site / Test Engineer	SR2 / Amber
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 240V/60Hz

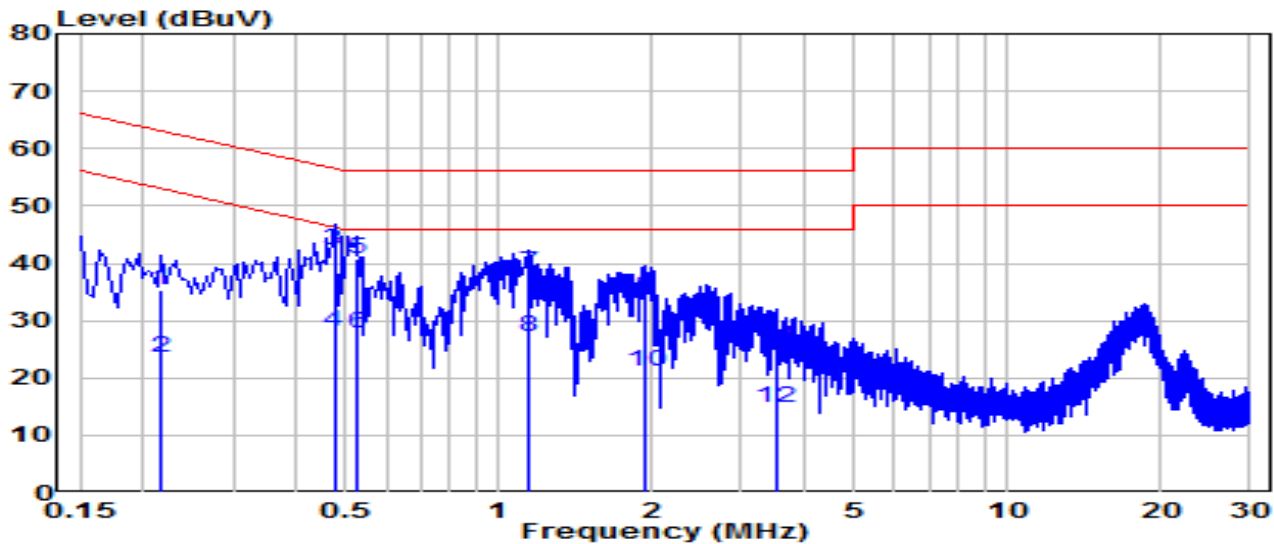


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1		0.159	28.28	9.62	37.90	-27.62	65.52	QP
2		0.159	12.85	9.62	22.47	-33.04	55.52	Average
3		0.339	27.93	9.63	37.56	-21.67	59.23	QP
4		0.339	16.95	9.63	26.58	-22.65	49.23	Average
5	*	0.501	32.74	9.64	42.39	-13.61	56.00	QP
6	*	0.501	20.44	9.64	30.08	-15.92	46.00	Average
7		1.194	28.03	9.67	37.71	-18.29	56.00	QP
8		1.194	16.70	9.67	26.37	-19.63	46.00	Average
9		1.819	25.06	9.69	34.75	-21.25	56.00	QP
10		1.819	13.63	9.69	23.31	-22.69	46.00	Average
11		2.688	20.17	9.70	29.87	-26.13	56.00	QP
12		2.688	8.16	9.70	17.86	-28.14	46.00	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	POS Terminal	Date of Test	2022-12-05
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	23.5°C / 66%
Polarity	Neutral	Site / Test Engineer	SR2 / Amber
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 240V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1		0.217	25.66	9.62	35.28	-27.63	62.91	QP
2		0.217	13.81	9.62	23.44	-29.48	52.91	Average
3	*	0.474	32.77	9.64	42.41	-14.03	56.44	QP
4	*	0.474	18.30	9.64	27.94	-18.50	46.44	Average
5		0.528	31.20	9.64	40.84	-15.16	56.00	QP
6		0.528	18.04	9.64	27.68	-18.32	46.00	Average
7		1.140	28.69	9.67	38.37	-17.63	56.00	QP
8		1.140	17.38	9.67	27.05	-18.95	46.00	Average
9		1.936	24.32	9.69	34.01	-21.99	56.00	QP
10		1.936	11.59	9.69	21.28	-24.72	46.00	Average
11		3.498	15.58	9.72	25.30	-30.70	56.00	QP
12		3.498	4.94	9.72	14.66	-31.34	46.00	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 **POS Terminal**, is in compliance with Part 15C & IC RSS-247 of the FCC Rules & IC Rules.

_____ The End _____