



MEASUREMENT REPORT (C2PC for FCC, C2PC for ISED)

FCC ID : XBG-BA1GMNRCH12
IC : 21285-BA1GMNRCH12
Applicant : AVALUE TECHNOLOGY INCORPORATION
Application Type : Certification
Product : Intercom
Model Name : Monarch 12
Model Number : BUTTERFLYMX.M12.1
Trademark : 
FCC Classification : (DTS) Digital Transmission System
FCC Rule Part(s) : Part 15.247
ISED Standard : RSS-247 Issue 3
Test Procedure(s) : ANSI C63.10-2013
Received Date : December 05, 2023
Test Date : December 06~15, 2023

Tested By : 

(Kaunaz Lee)

Reviewed By : 
(Paddy Chen)

Approved By : 
(Chenz Ker)



The test results only relate to the tested samples.

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
2312TWN801-U4	1.0	Original Report	2024-02-19	

Note:

1. The original report was FCC: 2209TWI301-U4 and IC: 2209TWI301-C4 (Monarch 12 (BUTTERFLYMX.M12.1)). This time, the Power Adapter was added and the WLAN (BT/BLE & Wi-Fi 2.4G/5G) Antenna was changed, so the FCC C2PC & IC C2PC (Conducted Output Power, Spurious Emission & Band Edge, Conduction) is executed.
2. FCC Original Report Grant Date: 01/09/2023, FCC ID: XBG-BA1GMNRCH12.
3. IC Original Report Grant Date: 01/22/2023, IC: 21285-BA1GMNRCH12.

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§2.1033 General Information

Applicant	AVALUE TECHNOLOGY INCORPORATION
Applicant Address	7F, 228, Lian-cheng Road, Zhonghe Dist., New Taipei City 235, Taiwan
Manufacturer	ButterflyMX, inc.
Manufacturer Address	44 West 28th Street, 4th Floor New York, NY 10001
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 3
Test Device Serial No.	#1-1 ☐ Production ☒ Pre-Production ☐ Engineering

Test Facility / Accreditations

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

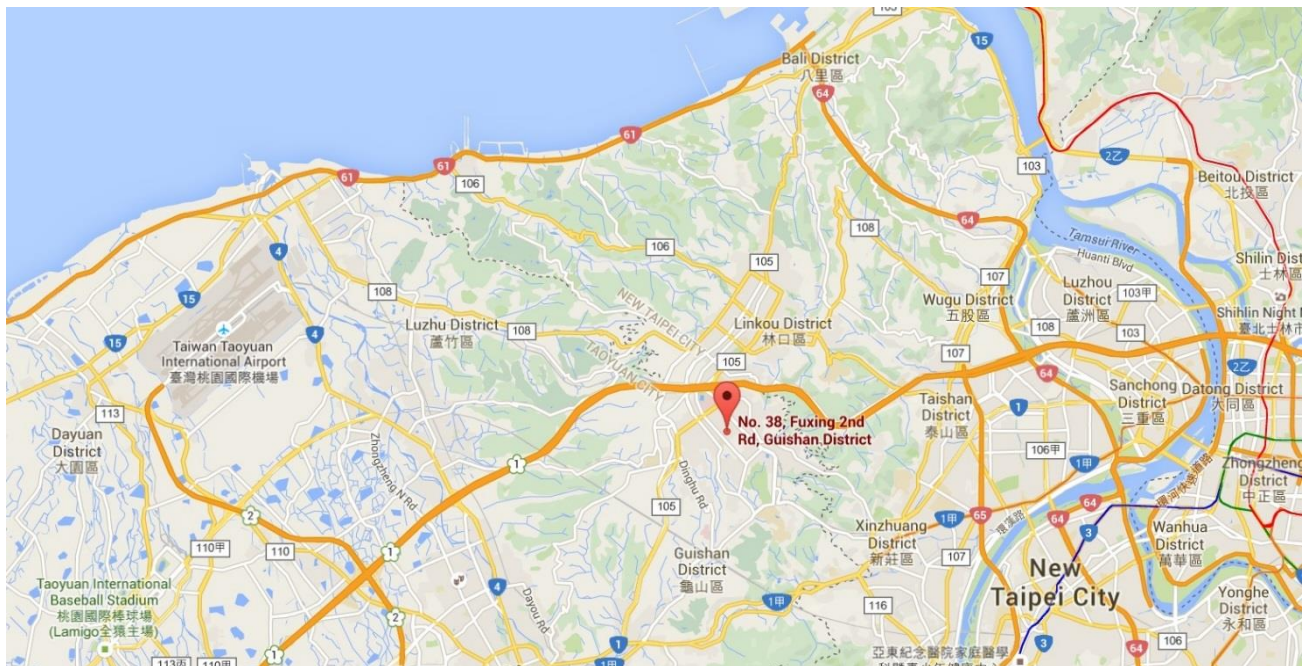
1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the 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	Intercom
Model Name	Monarch 12
Model Number	BUTTERFLYMX.M12.1
Trademark	
Supports Radios Spec.	WPAN: Bluetooth Dual Mode: V5.0 WLAN: 2.4G: 802.11b/g/n-20/n-40 5G: 802.11a/n-20/ac-20/n-40/ac-40/ac-80, Band 1,4
Wi-Fi Specification	802.11b/g/n (2TX / 2RX)
Frequency Range	2.4GHz: For 802.11b/g/n-HT20: 2412 ~ 2462 MHz For 802.1n-HT40: 2422 ~ 2452 MHz
Type of Modulation	802.11b: DSSS, DBPSK, DQPSK, CCK 802.11g/n-HT20: OFDM, BPSK, QPSK, 16QAM, 64QAM
Accessory	
Power Adapter #1	Brand Name: EDAC Model: EA10731F-240 Input: AC 100-240V~0.2A, 50-60Hz Output: DC 24.0V-2.08A
Power Adapter #2 (This time new addition)	Brand Name: EDAC Model: EA10681H-240 Input: AC 100-240V~2.0A, 50-60Hz Output: DC 24.0V-2.08A 50.0W DC Cable Out: Non-Shielded, 1.2m

2.2. Working Frequencies for this Report

802.11b/g/n-HT20

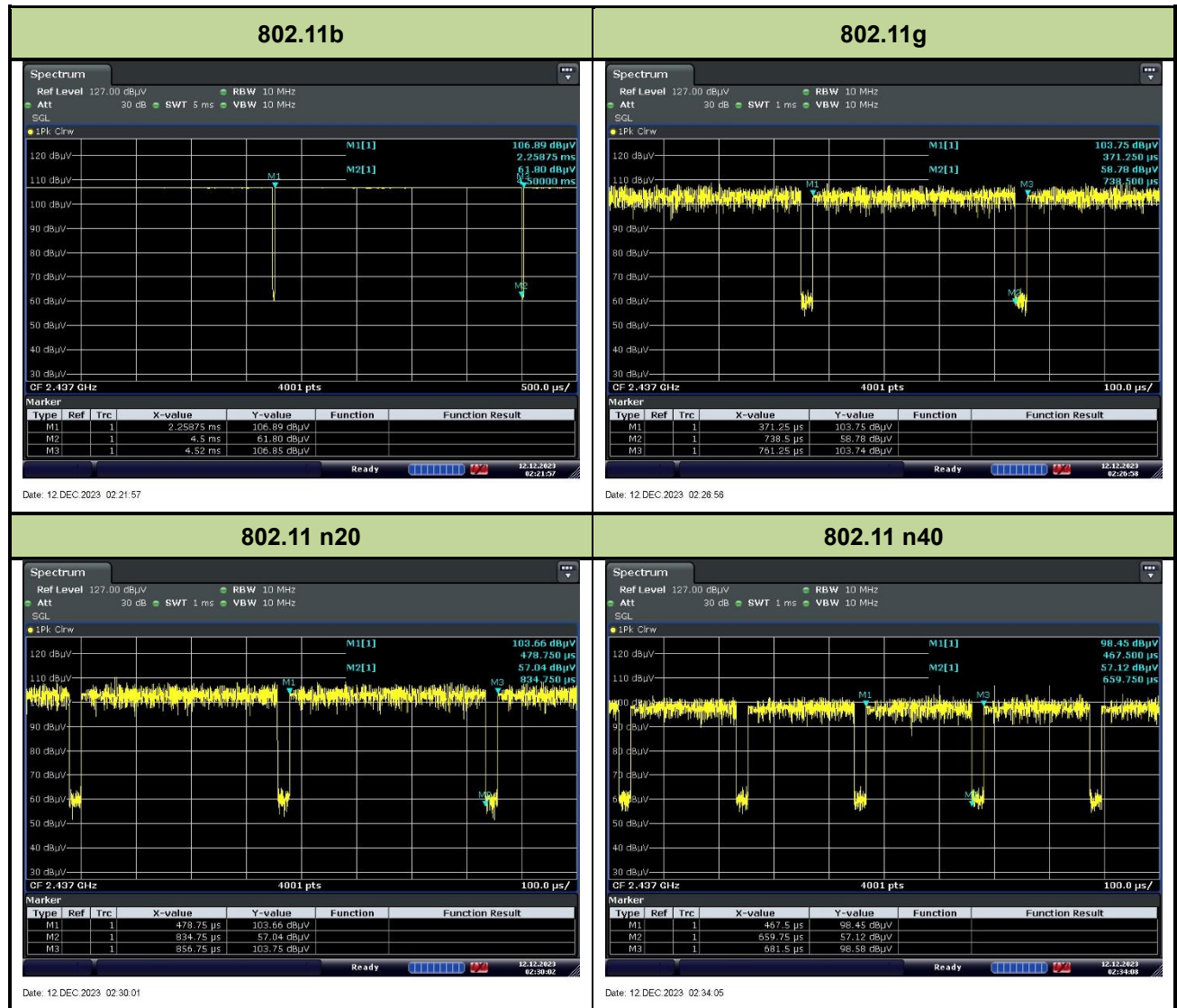
Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz	--	--

802.11n-HT40

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

Duty Cycle

Test Mode	Duty Cycle
802.11b	99.12%
802.11g	94.17%
802.11 n-HT20	94.18%
802.11 n-HT40	89.84%



2.3. Test Mode

Test Mode	Mode 1: Transmit by 802.11b
	Mode 2: Transmit by 802.11g
	Mode 3: Transmit by 802.11n-HT20
	Mode 4: Transmit by 802.11n-HT40
	Mode 5: Receiver by 802.11n-HT20

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 “putty”, the version is ver0.78”.

2.5. 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.

2.6. EMI Suppression Device(s)/Modifications

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

2.7. 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, 50 Ω /50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

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

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment 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 Intercom, is permanently attached.
- There are no provisions for connection to an external antenna.

Conclusion:

The EUT unit complies with the requirement of §15.203. Antenna List

No.	Manufacturer	Part No.	Antenna Type	Antenna Gain (dBi)		
				BT/BLE	Wi-Fi 2.4G	Wi-Fi 5G
1	INPAQ TECHNOLOGY CO., LTD. (This time new addition)	WA-P-LB-01-315 and WA-P-LB-02-996	PCB	4.45	Ant 0: 4.45 Ant 1: 4.35	Ant 0_B1: 7.26 Ant 1_B1: 7.77 Ant 0_B4: 8.26 Ant 1_B4: 7.06

5. TEST EQUIPMENT CALIBRATION DATE

Radiated Emissions – AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	MRTTWA00002	1 year	2024/5/22
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00001	1 year	2024/10/31
Broadband Hornantenna	SCHWARZBECK	BBHA 9120D	MRTTWA00003	1 year	2024/3/24
Broadband Preamplifier	SCHWARZBECK	BBV 9718	MRTTWA00005	1 year	2024/3/24
Breitband Hornantenna	SCHWARZBECK	BBHA 9170	MRTTWA00004	1 year	2024/3/20
Broadband Amplifier	SCHWARZBECK	BBV 9721	MRTTWA00006	1 year	2024/3/27
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2024/3/8
Signal Analyzer	R&S	FSV40	MRTTWA00007	1 year	2024/3/14
Antenna Cable	HUBERSUHNER	SF106	MRTTWE00010	1 year	2024/6/13
Cable	Rosnol	K1K50-UP0264- K1K50-4M	MRTTWE00012	1 year	2024/6/18
Temperature/Humidity Meter	TFA	35.1078.10.IT	MRTTWA00032	1 year	2024/6/4

Conducted Test Equipment – SR6

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
X-Series USB Peak and Average Power Sensor	KEYSIGHT	U2021XA	MRTTWA00014	1 year	2024/4/19
X-Series USB Peak and Average Power Sensor	KEYSIGHT	U2021XA	MRTTWA00015	1 year	2024/3/16
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2024/10/17
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2024/7/19
DIVA PLUS Funk-Wetterstation	TFA	35.1083	MRTTWA00050	1 year	2024/6/15

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: $\pm 2.53\text{dB}$
Conducted Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 0.84\text{dB}$
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: $\pm 4.45\text{dB}$

7. TEST RESULT

7.1. Summary

Product Name: Intercom

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)	6dB Bandwidth	$\geq 500\text{kHz}$	Conducted	N/A	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	$\leq 8.00\text{dBm/3kHz}$		N/A	Section 7.4
15.247(d)	RSS-247 5.5	Out-of-Band Emissions	Conducted $\geq 20\text{dBc}$		N/A	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.

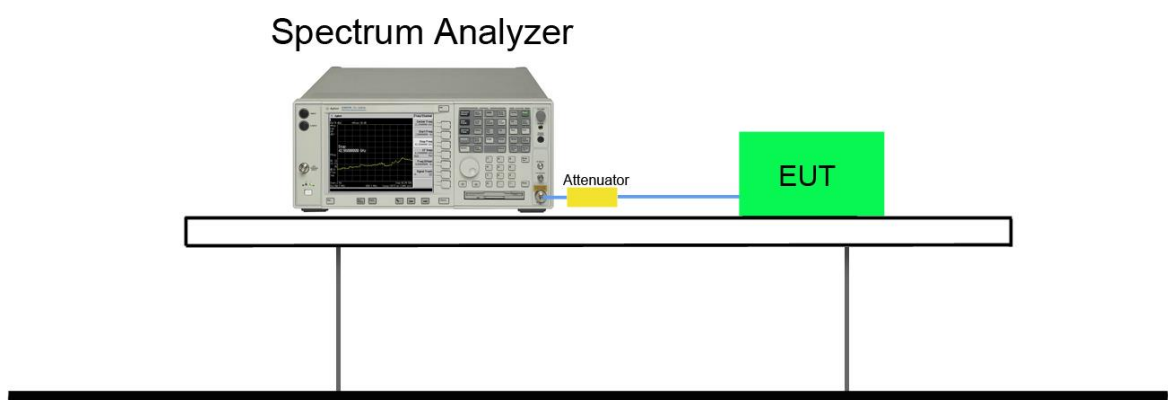
7.2.2. Test Procedure used

ANSI C63.10-2013 Section 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

Note 1: Reference Original Report Grant Date: 01/09/2023, FCC ID: XBG-BA1GMNRCH12.

Note 2: Reference Original Report Grant Date: 01/22/2023, IC: 21285-BA1GMNRCH12.

7.3. Output Power Measurement

7.3.1. Test Limit

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

7.3.2. Test Procedure Used

ANSI C63.10-2013 Section 11.9.2.3.2

7.3.3. Test Setting

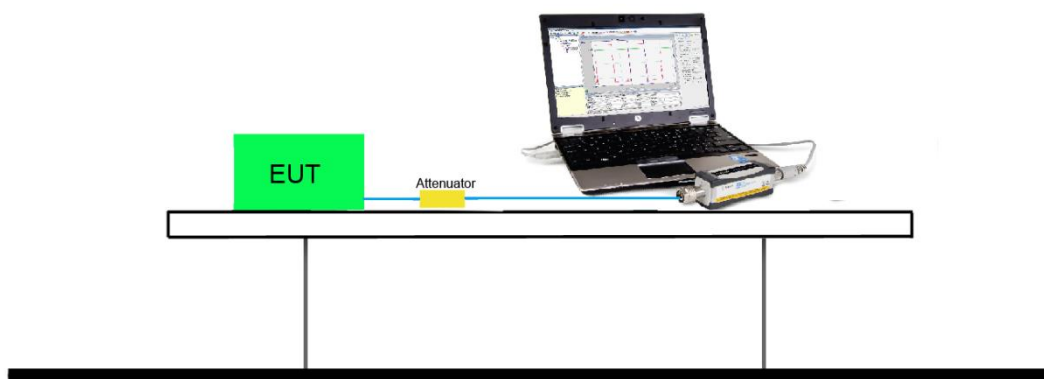
Peak Power Measurement

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

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. The trace was averaged over 100 traces to obtain the final measured average power.

7.3.4. Test Setup



7.3.5. Test Result of Output Power

Model	Rate	Ch.	Freq. (MHz)	Ant 0 Peak Power (dBm)	Ant 1 Peak Power (dBm)	Ant 0+1 Peak Power (dBm)	Power Limit (dBm)
802.11b	1M	1	2412	16.86	16.54	19.71	30.00
	1M	6	2437	16.80	16.45	19.64	30.00
	1M	11	2462	15.74	15.37	18.57	30.00
802.11g	6M	1	2412	25.33	25.09	28.22	30.00
	6M	6	2437	25.68	25.94	28.82	30.00
	6M	11	2462	26.05	25.92	29.00	30.00
802.11n- HT20	MCS0	1	2412	25.10	24.75	27.94	30.00
	MCS0	6	2437	25.88	26.03	28.97	30.00
	MCS0	11	2462	26.01	25.64	28.84	30.00
802.11n- HT40	MCS0	3	2422	23.23	22.83	26.04	30.00
	MCS0	6	2437	25.03	24.60	27.83	30.00
	MCS0	9	2452	23.13	22.92	26.04	30.00

Model	Rate	Ch.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 0+1 Average Power (dBm)	Power Limit (dBm)
802.11b	1M	1	2412	14.43	14.12	17.29	30.00
	1M	6	2437	14.41	14.01	17.22	30.00
	1M	11	2462	13.30	12.91	16.12	30.00
802.11g	6M	1	2412	16.11	16.03	19.08	30.00
	6M	6	2437	17.17	16.91	20.05	30.00
	6M	11	2462	16.94	16.56	19.76	30.00
802.11n- HT20	MCS0	1	2412	15.34	15.04	18.20	30.00
	MCS0	6	2437	16.04	16.18	19.12	30.00
	MCS0	11	2462	16.12	15.70	18.93	30.00
802.11n- HT40	MCS0	3	2422	13.45	13.21	16.34	30.00
	MCS0	6	2437	16.01	15.78	18.91	30.00
	MCS0	9	2452	14.24	13.71	16.99	30.00

Note: Output power = Reading value on power meter + duty cycle factor + 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

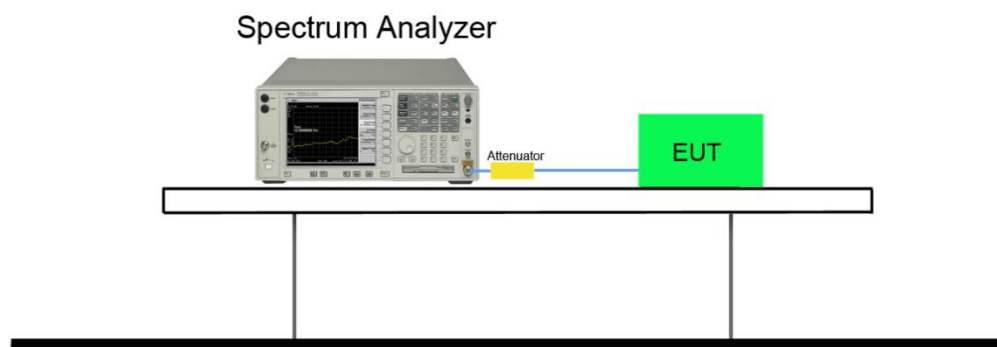
ANSI C63.10-2013 Section 11.10.5

7.4.3. Test Setting

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: 3 kHz.
- d) Set the VBW $\geq 3 \times$ RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.

7.4.4. Test Setup



7.4.5. Test Result

Note 1: Reference Original Report Grant Date: 01/09/2023, FCC ID: XBG-BA1GMNRCH12.

Note 2: Reference Original Report Grant Date: 01/22/2023, IC: 21285-BA1GMNRCH12.

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.

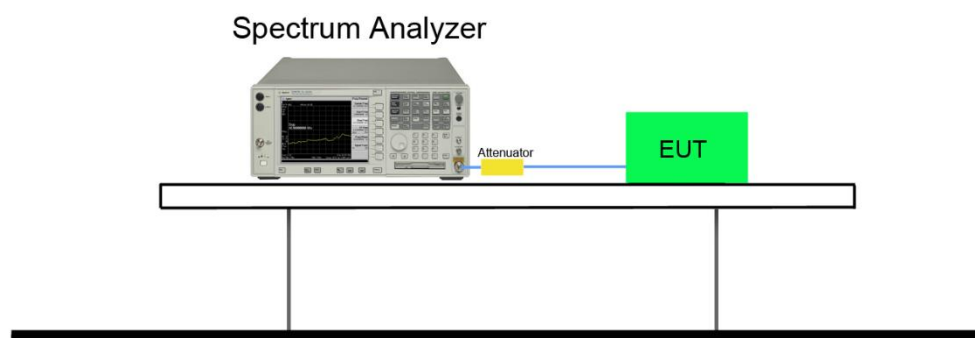
7.5.2. Test Procedure Used

ANSI C63.10-2013 Section 11.11

7.5.3. Test Setting

- (a) Set instrument center frequency to DTS channel center frequency
- (b) Set the span to ≥ 1.5 times the DTS bandwidth
- (c) Set the RBW = 100 kHz
- (d) Set the VBW $\geq 3 \times$ RBW
- (e) Detector = peak
- (f) Sweep time = auto couple
- (g) Trace mode = max hold
- (h) Allow trace to fully stabilize

7.5.4. Test Setup



7.5.5. Test Result

Note 1: Reference Original Report Grant Date: 01/09/2023, FCC ID: XBG-BA1GMNRCH12.

Note 2: Reference Original Report Grant Date: 01/22/2023, IC: 21285-BA1GMNRCH12.

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		
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

7.6.2. Test Procedure Used

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

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

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

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

7.6.3. Test Setting

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3MHz
4. Detector = peak

5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

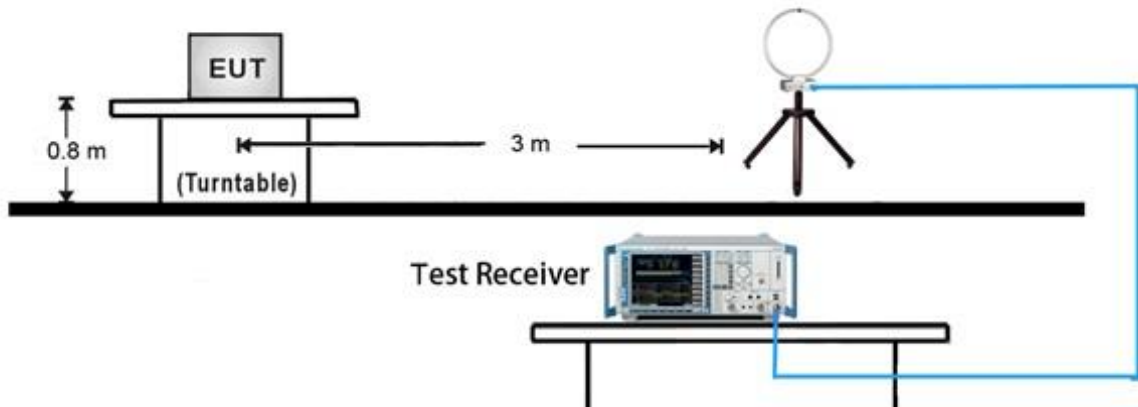
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

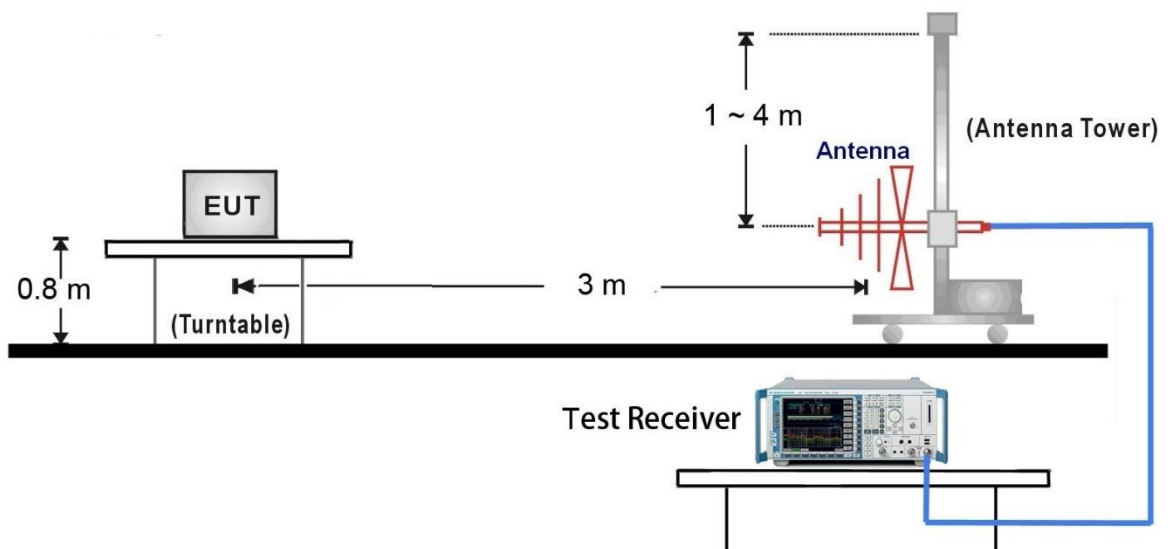
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq 1/T$
4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). 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

7.6.4. Test Setup

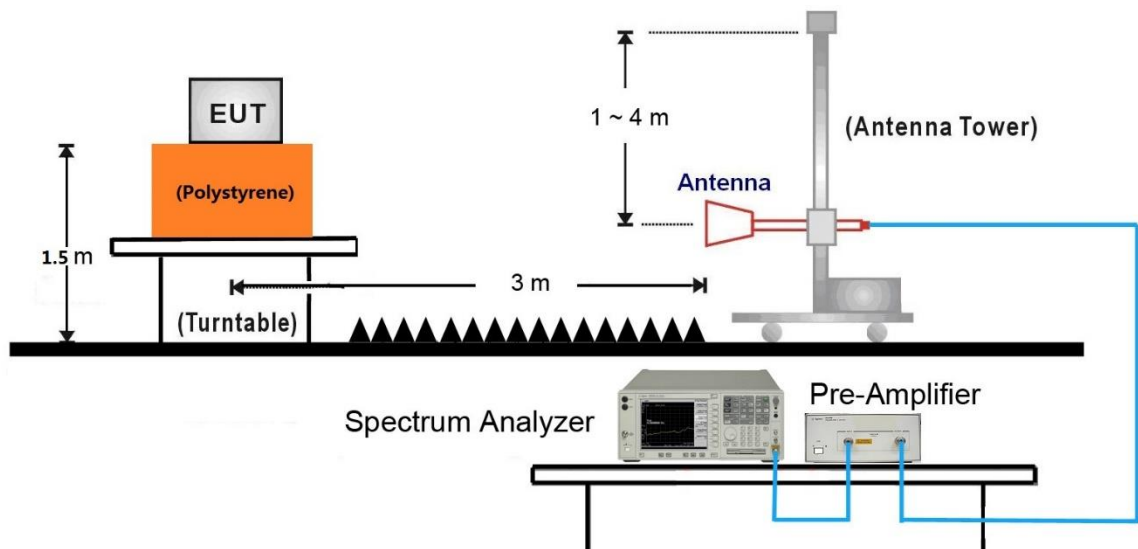
9kHz ~ 30MHz Test Setup:



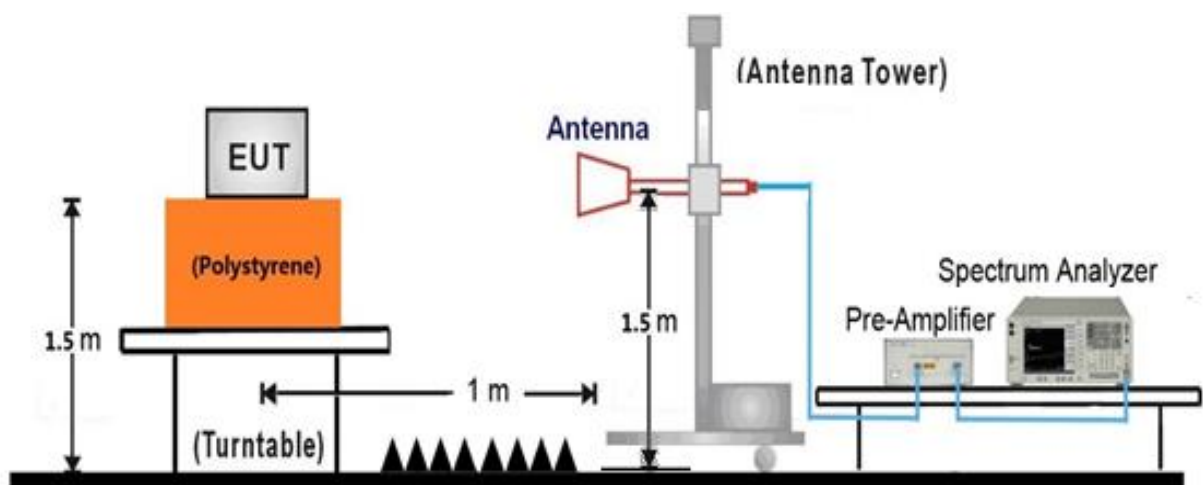
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:

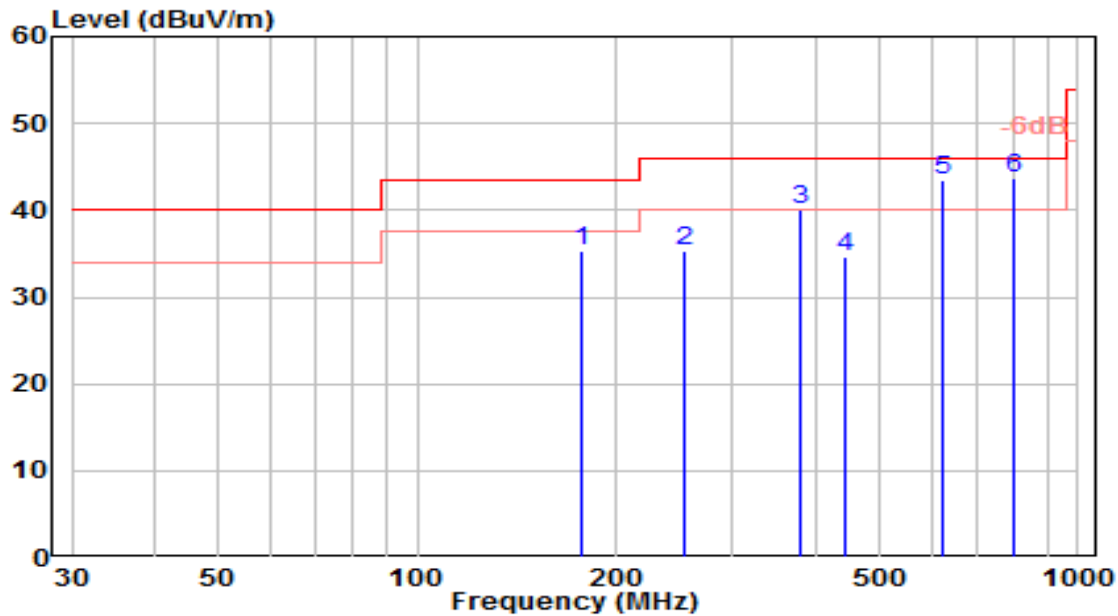


18GHz ~25GHz Test Setup:



7.6.5. Test Result

EUT	Intercom	Date of Test	2023-12-07
Factor	VULB 9162	Temp. / Humidity	24°C /59%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

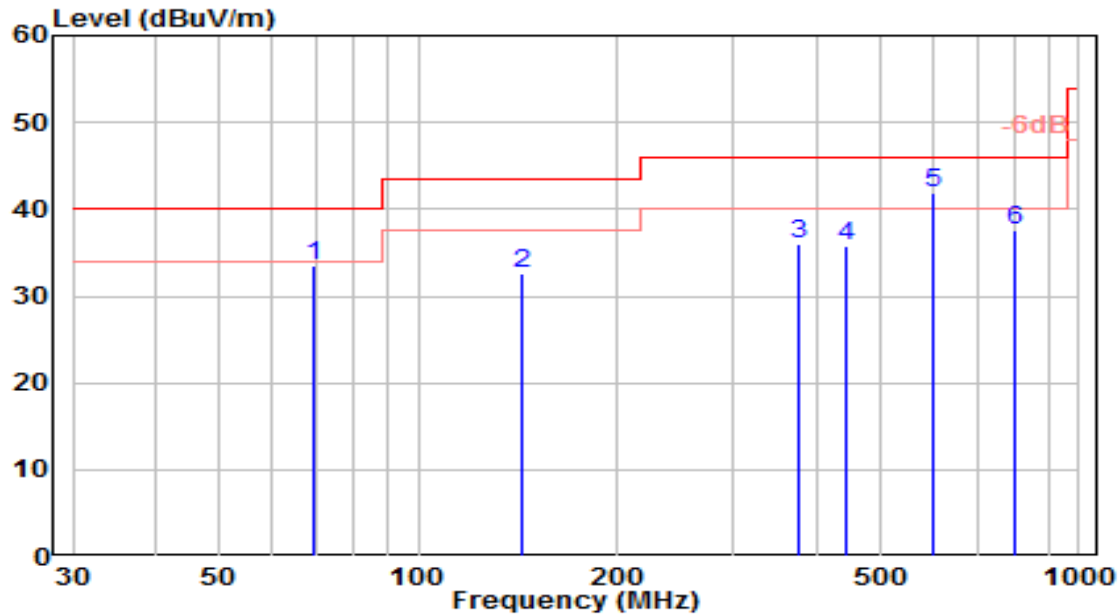


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	177.707	18.76	16.46	35.21	-8.29	43.50	150	60	QP
2	252.567	15.06	20.37	35.43	-10.57	46.00	100	65	QP
3	380.115	16.57	23.43	40.00	-6.00	46.00	100	30	QP
4	445.015	10.39	24.15	34.53	-11.47	46.00	150	250	QP
5	623.633	15.74	27.65	43.39	-2.61	46.00	100	245	QP
6	* 798.885	13.60	30.09	43.69	-2.31	46.00	100	245	QP

Note:

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

EUT	Intercom	Date of Test	2023-12-07
Factor	VULB 9162	Temp. / Humidity	24°C /59%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

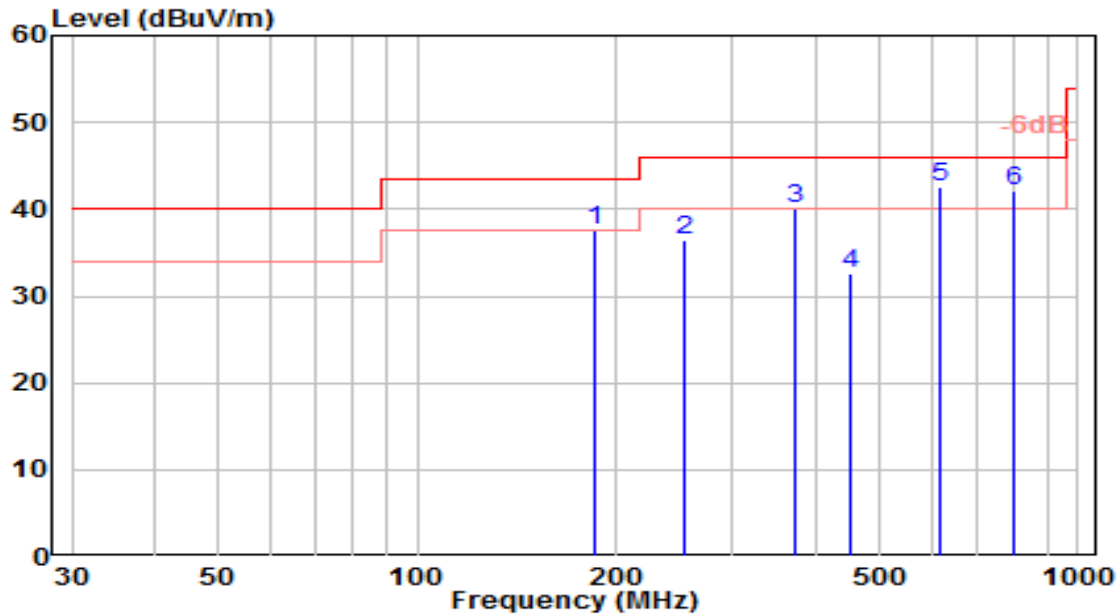


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	69.444	17.37	16.07	33.43	-6.57	40.00	100	320	QP
2	143.099	17.63	15.04	32.66	-10.84	43.50	100	10	QP
3	376.983	12.69	23.38	36.07	-9.93	46.00	150	270	QP
4	442.490	11.74	24.13	35.87	-10.13	46.00	100	190	QP
5	* 598.970	14.42	27.57	41.99	-4.01	46.00	150	175	QP
6	802.219	7.40	30.16	37.56	-8.44	46.00	100	220	QP

Note:

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

EUT	Intercom	Date of Test	2023-12-07
Factor	VULB 9162	Temp. / Humidity	24°C /59%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_RX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

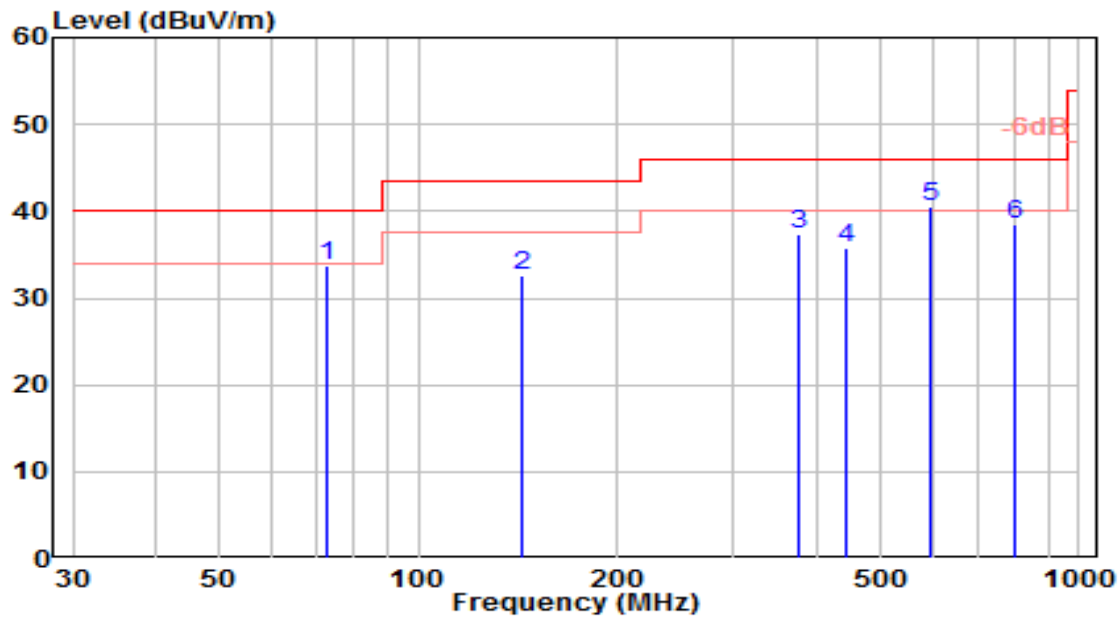


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	185.603	20.27	17.33	37.60	-5.90	43.50	150	60	QP
2	252.737	16.00	20.38	36.38	-9.62	46.00	100	65	QP
3	372.653	16.78	23.31	40.08	-5.92	46.00	100	30	QP
4	450.987	8.36	24.22	32.57	-13.43	46.00	150	250	QP
5	* 620.218	14.89	27.64	42.54	-3.46	46.00	100	245	QP
6	802.835	12.00	30.17	42.18	-3.82	46.00	100	245	QP

Note:

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

EUT	Intercom	Date of Test	2023-12-07
Factor	VULB 9162	Temp. / Humidity	24°C /59%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_RX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

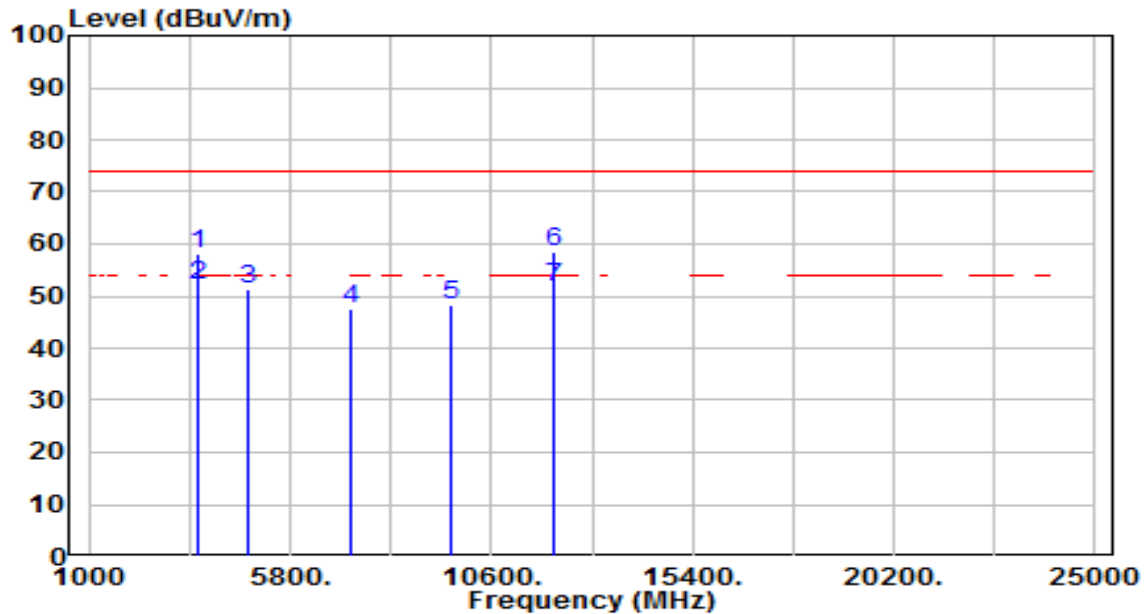


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	72.785	18.48	15.28	33.75	-6.25	40.00	100	320	QP
2	143.782	17.52	15.06	32.58	-10.92	43.50	100	10	QP
3	375.996	13.99	23.36	37.35	-8.65	46.00	150	270	QP
4	445.560	11.57	24.15	35.73	-10.27	46.00	100	190	QP
5	* 598.489	13.04	27.56	40.60	-5.40	46.00	150	175	QP
6	802.579	8.35	30.17	38.52	-7.48	46.00	100	220	QP

Note:

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

EUT	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

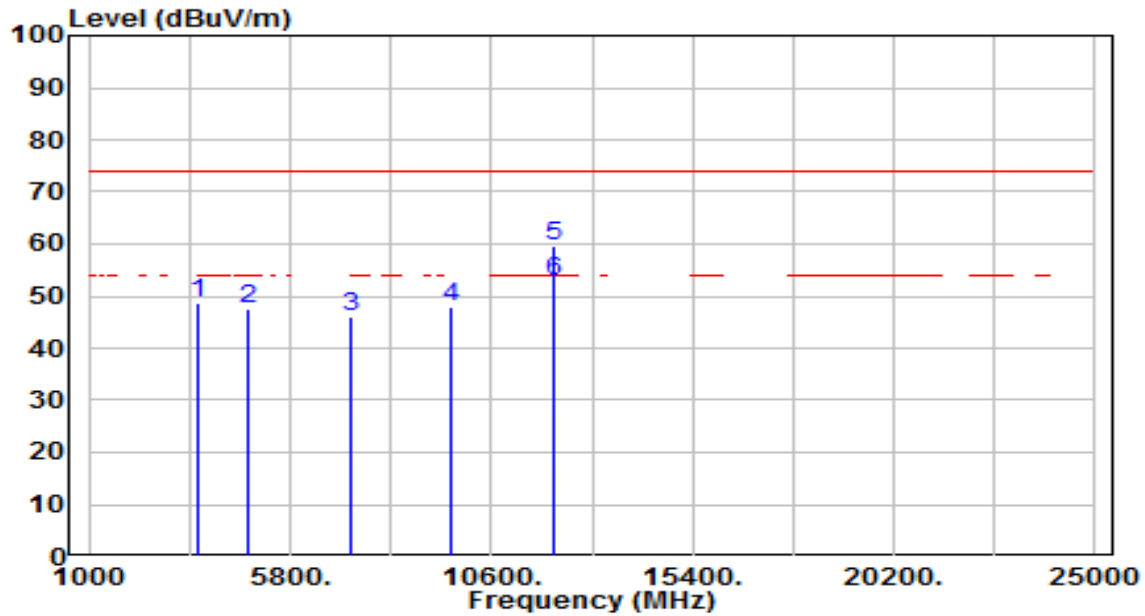


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3616.406	57.80	0.19	57.99	-16.01	74.00	187	172	Peak
2	* 3616.406	51.79	0.19	51.98	-2.02	54.00	187	172	Average
3	4824.000	47.53	3.91	51.45	-22.55	74.00	200	161	Peak
4	7236.000	35.49	11.94	47.43	-26.57	74.00	200	161	Peak
5	9648.000	32.70	15.79	48.49	-25.51	74.00	200	242	Peak
6	* 12060.000	39.55	18.96	58.51	-15.49	74.00	198	217	Peak
7	12060.000	32.90	18.96	51.86	-2.14	54.00	198	217	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

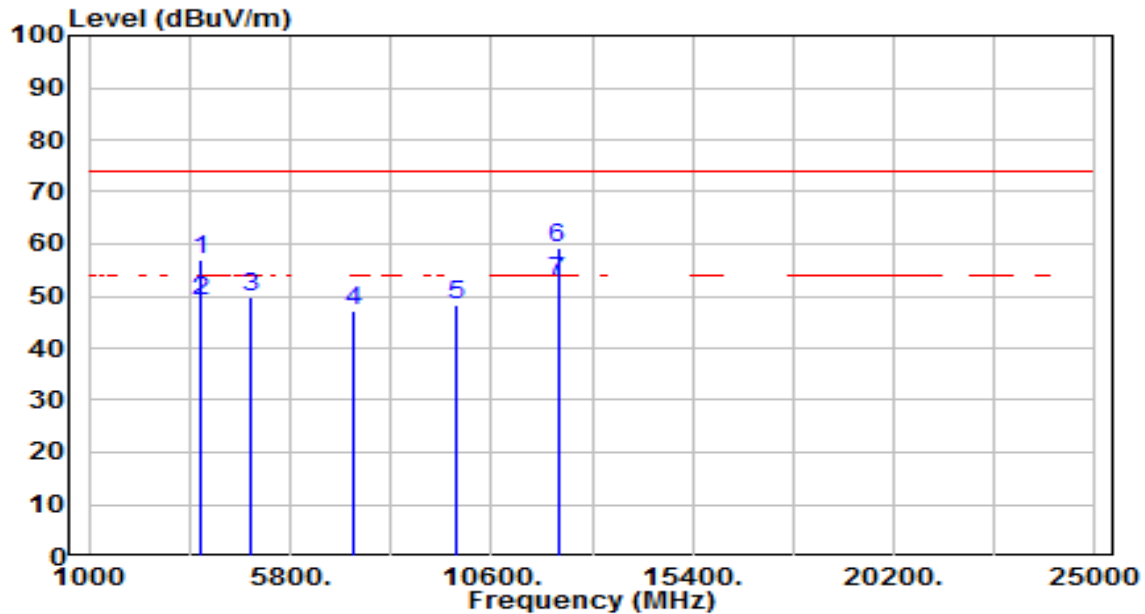


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3618.000	48.44	0.20	48.64	-25.36	74.00	200	192	Peak
2	4824.000	43.46	3.91	47.37	-26.63	74.00	200	360	Peak
3	7236.000	34.27	11.94	46.21	-27.79	74.00	200	156	Peak
4	9648.000	32.26	15.79	48.05	-25.95	74.00	200	167	Peak
5	* 12060.000	40.68	18.96	59.64	-14.36	74.00	223	211	Peak
6	* 12060.000	34.01	18.96	52.97	-1.03	54.00	223	211	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

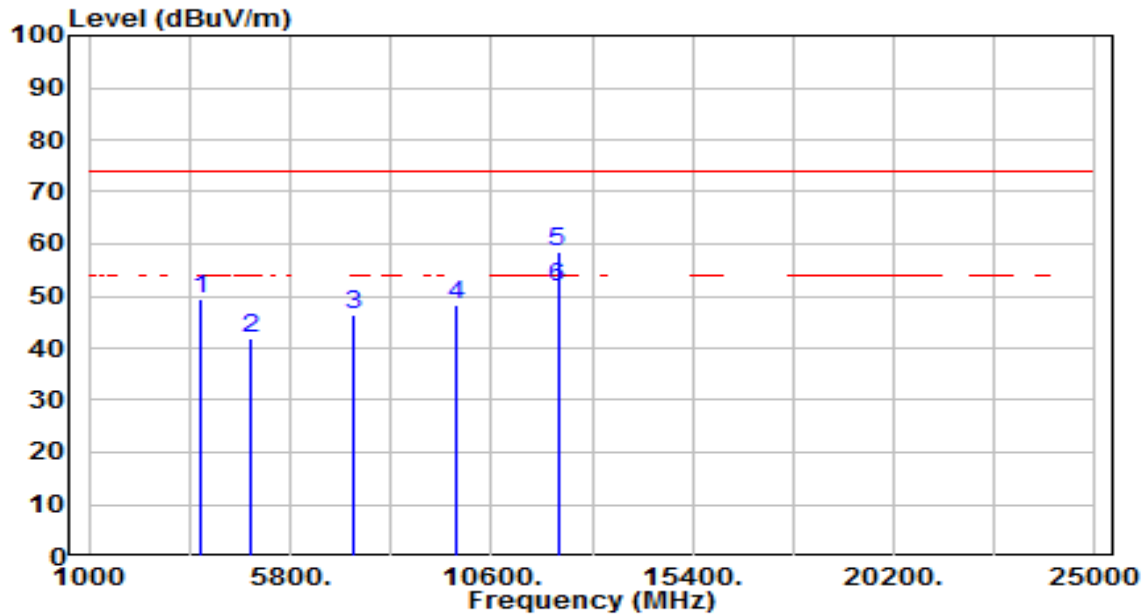


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3655.719	56.57	0.30	56.87	-17.13	74.00	215	182	Peak
2	3655.719	48.93	0.30	49.23	-4.77	54.00	215	182	Average
3	4874.000	45.91	4.02	49.93	-24.07	74.00	200	166	Peak
4	7311.000	34.83	12.20	47.03	-26.97	74.00	200	138	Peak
5	9748.000	32.43	16.01	48.44	-25.56	74.00	200	79	Peak
6	* 12185.000	40.23	18.86	59.09	-14.91	74.00	215	190	Peak
7	* 12185.000	33.90	18.86	52.76	-1.24	54.00	215	190	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

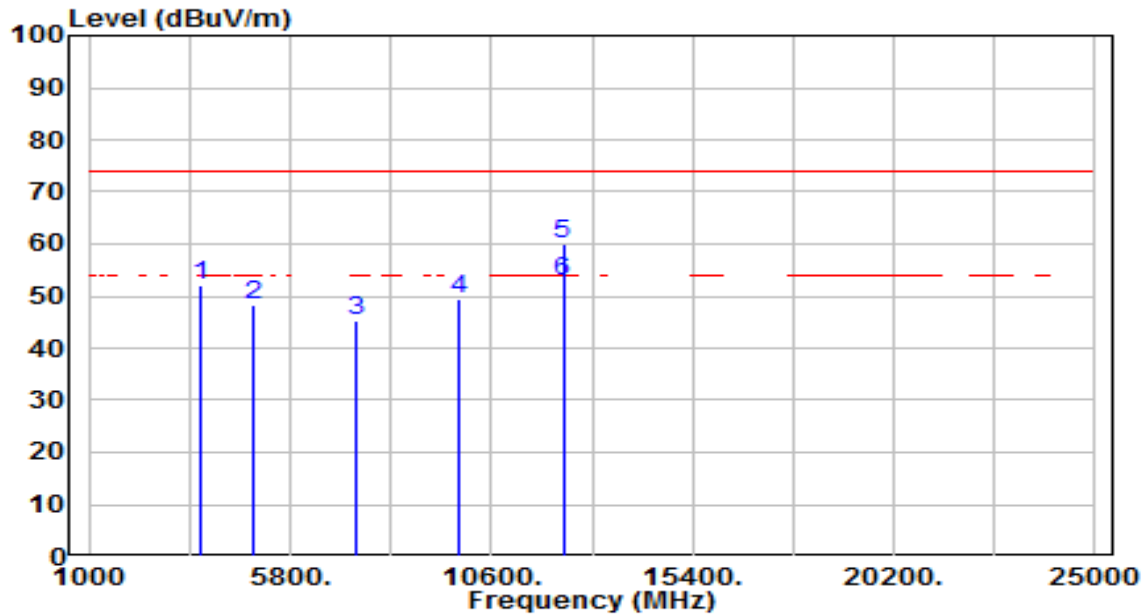


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3655.188	49.01	0.30	49.30	-24.70	74.00	200	197	Peak
2	4874.000	37.89	4.02	41.91	-32.09	74.00	200	360	Peak
3	7311.000	34.08	12.20	46.29	-27.71	74.00	200	208	Peak
4	9748.000	32.27	16.01	48.28	-25.72	74.00	200	190	Peak
5	* 12185.000	39.65	18.86	58.51	-15.49	74.00	197	209	Peak
6	* 12185.000	32.80	18.86	51.66	-2.34	54.00	197	209	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

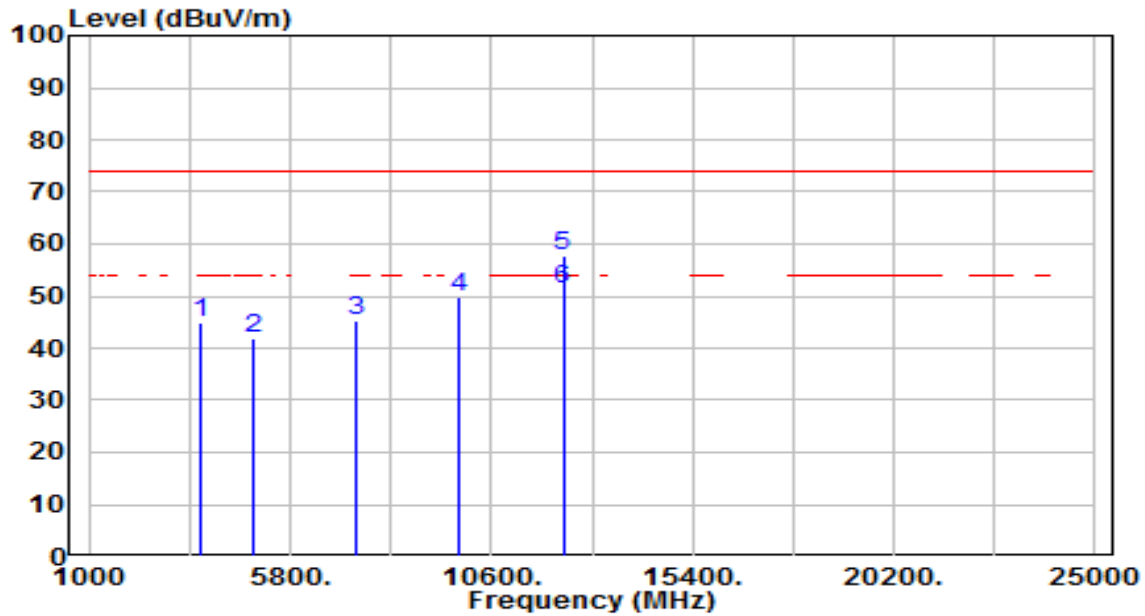


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3691.844	51.62	0.39	52.01	-21.99	74.00	200	207	Peak
2	4924.000	44.28	4.13	48.41	-25.59	74.00	200	164	Peak
3	7386.000	32.97	12.46	45.44	-28.56	74.00	200	360	Peak
4	9848.000	33.07	16.23	49.30	-24.70	74.00	200	44	Peak
5	* 12310.000	41.24	18.75	59.99	-14.01	74.00	228	188	Peak
6	* 12310.000	34.10	18.75	52.85	-1.15	54.00	228	188	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

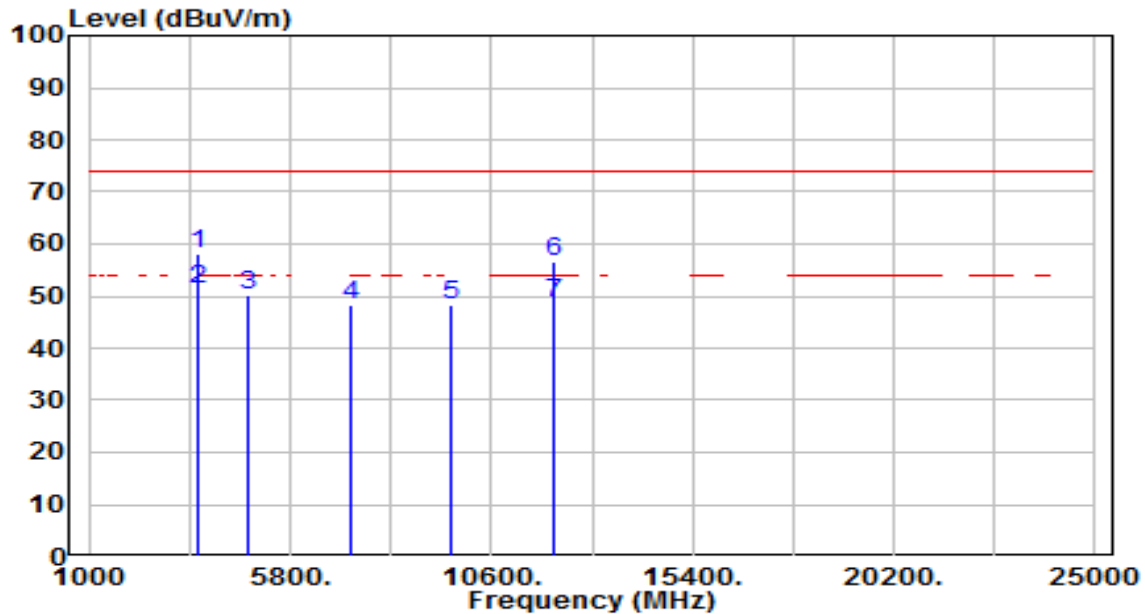


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3692.906	44.57	0.40	44.96	-29.04	74.00	200	192	Peak
2	4924.000	37.87	4.13	41.99	-32.01	74.00	200	360	Peak
3	7386.000	32.92	12.46	45.38	-28.62	74.00	200	241	Peak
4	9848.000	33.43	16.23	49.66	-24.34	74.00	200	139	Peak
5	* 12310.000	39.16	18.75	57.91	-16.09	74.00	225	204	Peak
6	* 12310.000	32.60	18.75	51.35	-2.65	54.00	225	204	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

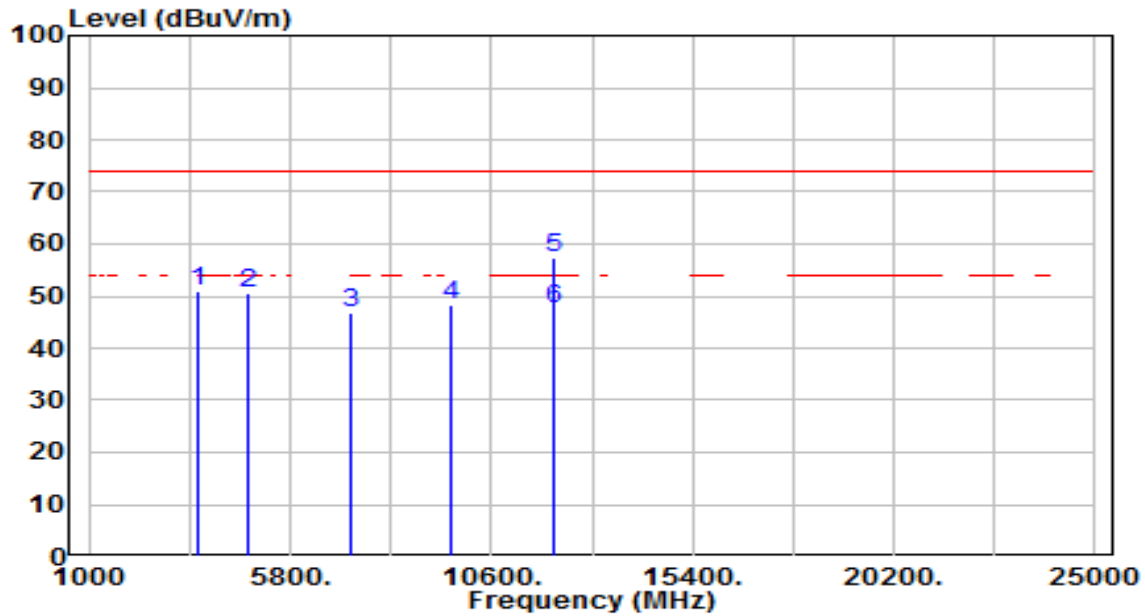


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	3616.406	57.88	0.19	58.07	-15.93	74.00	221	180	Peak
2	*	3616.406	51.17	0.19	51.36	-2.64	54.00	221	180	Average
3		4824.000	46.25	3.91	50.16	-23.84	74.00	200	218	Peak
4		7236.000	36.28	11.94	48.22	-25.78	74.00	200	154	Peak
5		9648.000	32.36	15.79	48.15	-25.85	74.00	200	179	Peak
6		12060.000	37.76	18.96	56.72	-17.28	74.00	151	172	Peak
7		12060.000	29.86	18.96	48.82	-5.18	54.00	151	172	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

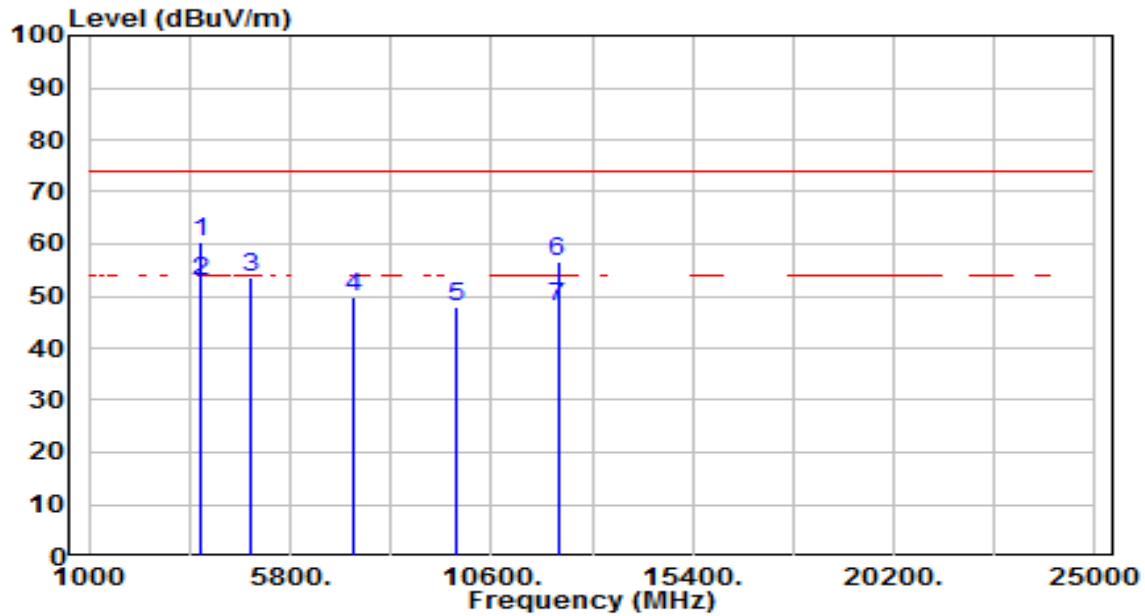


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3613.750	50.85	0.19	51.03	-22.97	74.00	200	181	Peak
2	4824.000	46.78	3.91	50.69	-23.31	74.00	200	360	Peak
3	7236.000	35.03	11.94	46.97	-27.03	74.00	200	64	Peak
4	9648.000	32.45	15.79	48.24	-25.76	74.00	200	287	Peak
5	* 12060.000	38.34	18.96	57.30	-16.70	74.00	189	209	Peak
6	* 12060.000	28.59	18.96	47.55	-6.45	54.00	189	209	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

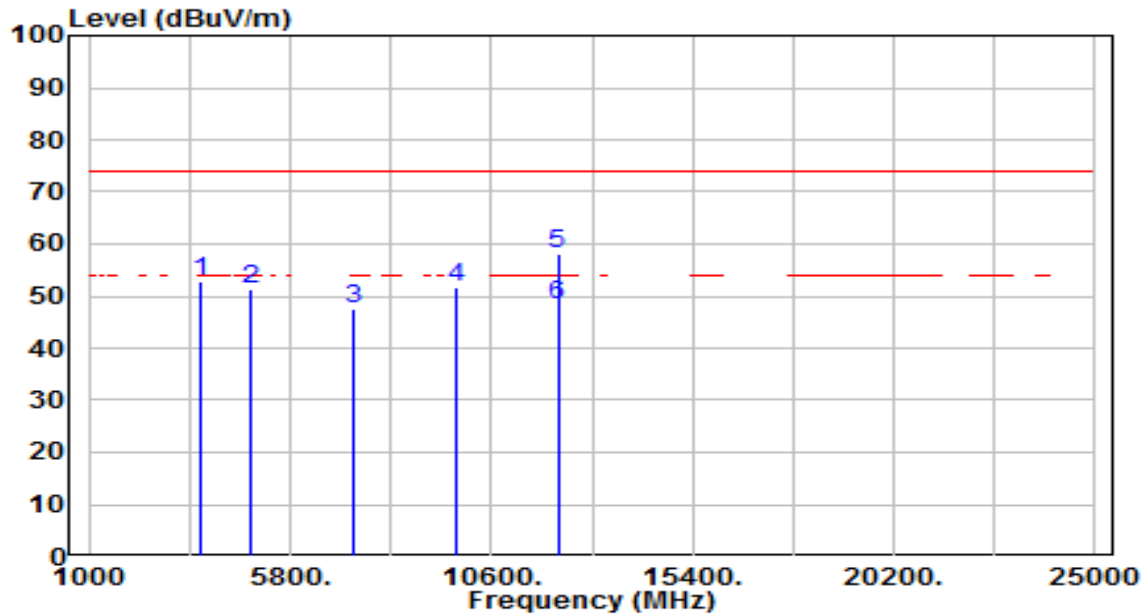


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	3648.813	60.11	0.28	60.39	-13.61	74.00	200	178	Peak
2	*	3648.813	52.60	0.28	52.88	-1.12	54.00	200	178	Average
3		4874.000	49.47	4.02	53.49	-20.51	74.00	200	157	Peak
4		7311.000	37.77	12.20	49.97	-24.03	74.00	200	164	Peak
5		9748.000	31.91	16.01	47.92	-26.08	74.00	200	316	Peak
6		12185.000	37.77	18.86	56.63	-17.37	74.00	219	170	Peak
7		12185.000	29.21	18.86	48.07	-5.93	54.00	219	170	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

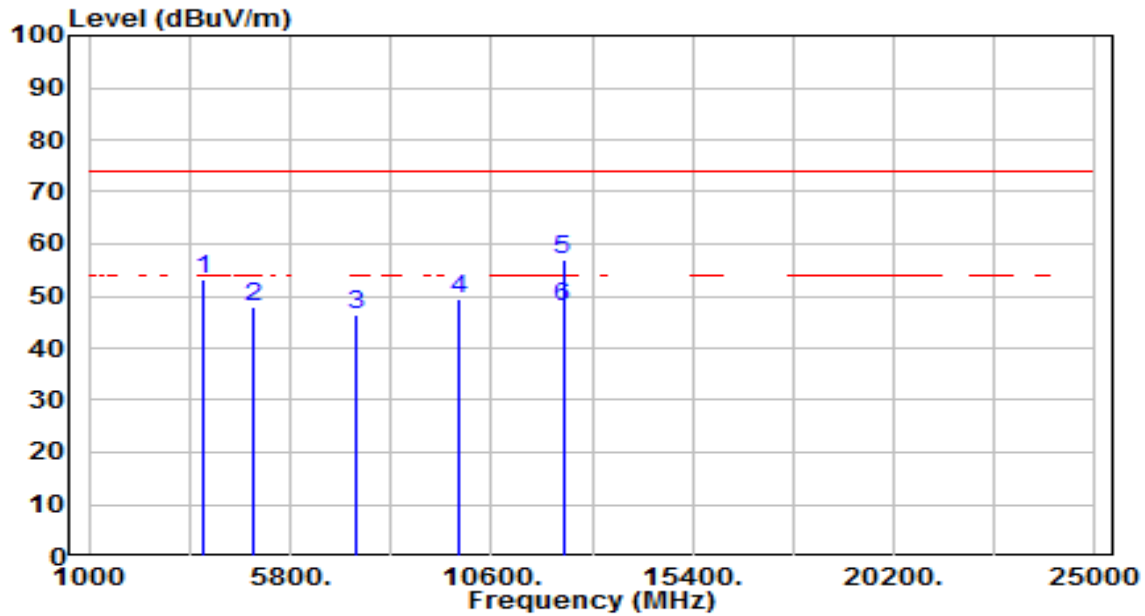


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3650.406	52.55	0.28	52.83	-21.17	74.00	200	193	Peak
2	4874.000	47.37	4.02	51.39	-22.61	74.00	200	360	Peak
3	7311.000	35.47	12.20	47.67	-26.33	74.00	200	189	Peak
4	9748.000	35.70	16.01	51.71	-22.29	74.00	200	154	Peak
5	* 12185.000	39.21	18.86	58.07	-15.93	74.00	204	207	Peak
6	* 12185.000	29.27	18.86	48.13	-5.87	54.00	204	207	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

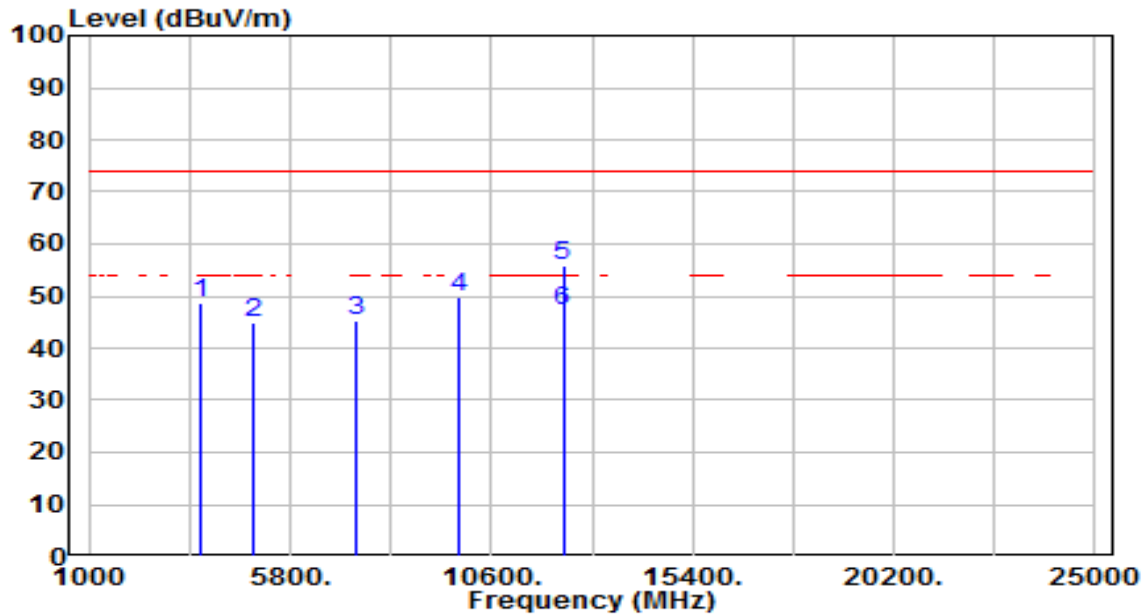


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3699.813	52.86	0.41	53.27	-20.73	74.00	200	181	Peak
2	4924.000	43.70	4.13	47.83	-26.17	74.00	200	216	Peak
3	7386.000	33.85	12.46	46.31	-27.69	74.00	200	160	Peak
4	9848.000	33.22	16.23	49.45	-24.55	74.00	200	199	Peak
5	* 12310.000	38.24	18.75	57.00	-17.00	74.00	201	188	Peak
6	* 12310.000	29.28	18.75	48.03	-5.97	54.00	201	188	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

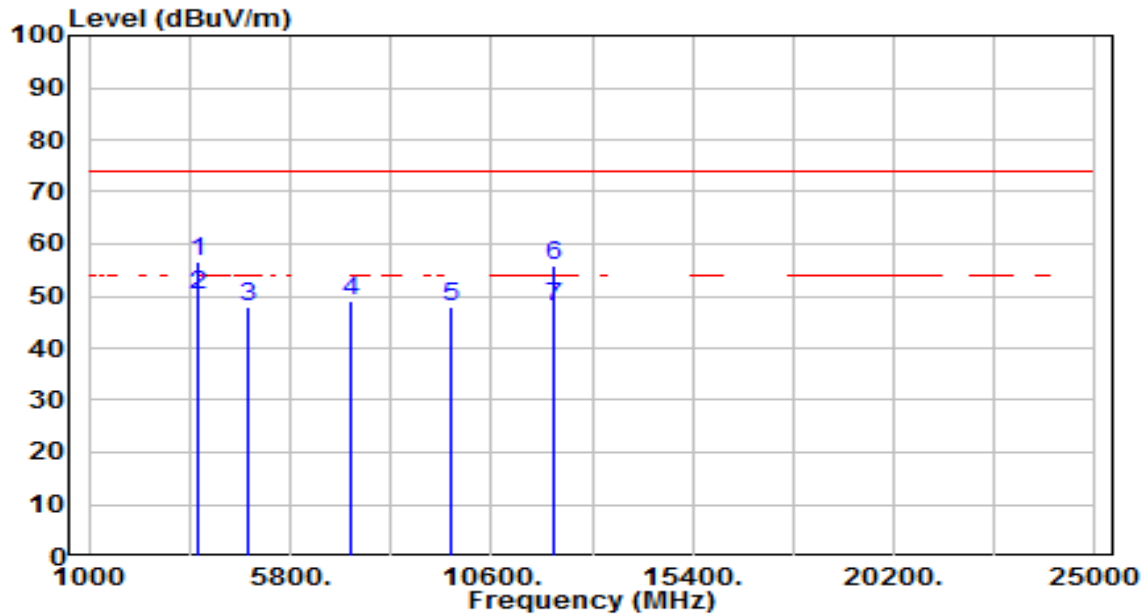


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3686.531	48.21	0.38	48.59	-25.41	74.00	200	154	Peak
2	4924.000	40.68	4.13	44.81	-29.19	74.00	200	360	Peak
3	7386.000	32.99	12.46	45.45	-28.55	74.00	200	118	Peak
4	9848.000	33.48	16.23	49.71	-24.29	74.00	200	122	Peak
5	* 12310.000	37.24	18.75	55.99	-18.01	74.00	217	205	Peak
6	* 12310.000	28.56	18.75	47.31	-6.69	54.00	217	205	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

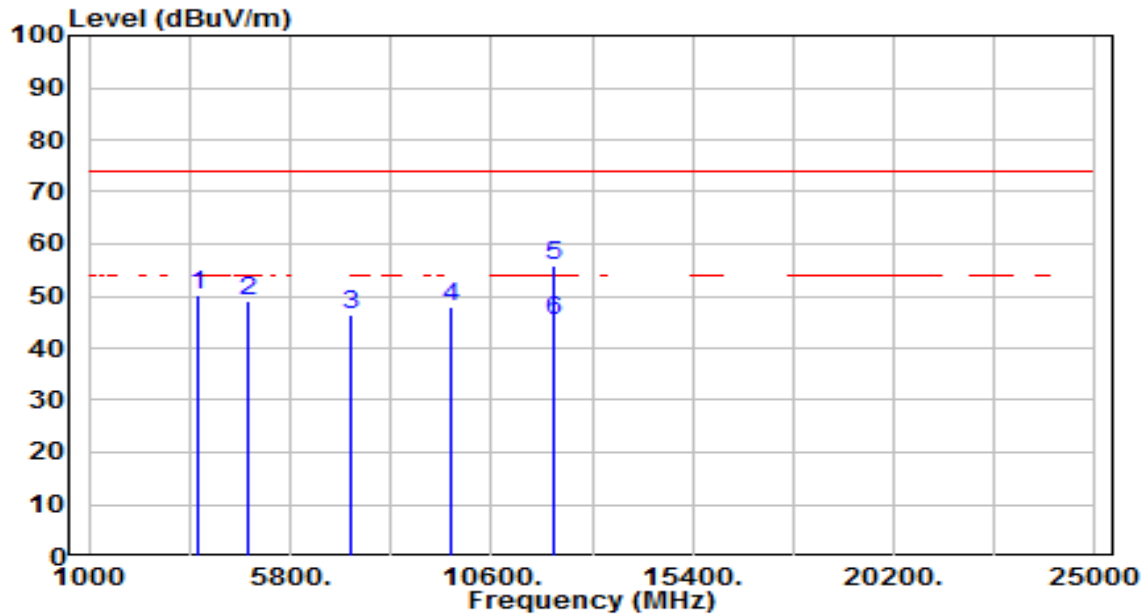


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	3609.500	56.47	0.18	56.65	-17.35	74.00	220	181	Peak
2	*	3609.500	50.14	0.18	50.32	-3.68	54.00	220	181	Average
3		4824.000	44.05	3.91	47.97	-26.03	74.00	200	199	Peak
4		7236.000	37.15	11.94	49.09	-24.91	74.00	200	171	Peak
5		9648.000	32.31	15.79	48.10	-25.90	74.00	200	234	Peak
6		12060.000	37.08	18.96	56.04	-17.96	74.00	185	213	Peak
7		12060.000	29.04	18.96	48.00	-6.00	54.00	185	213	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

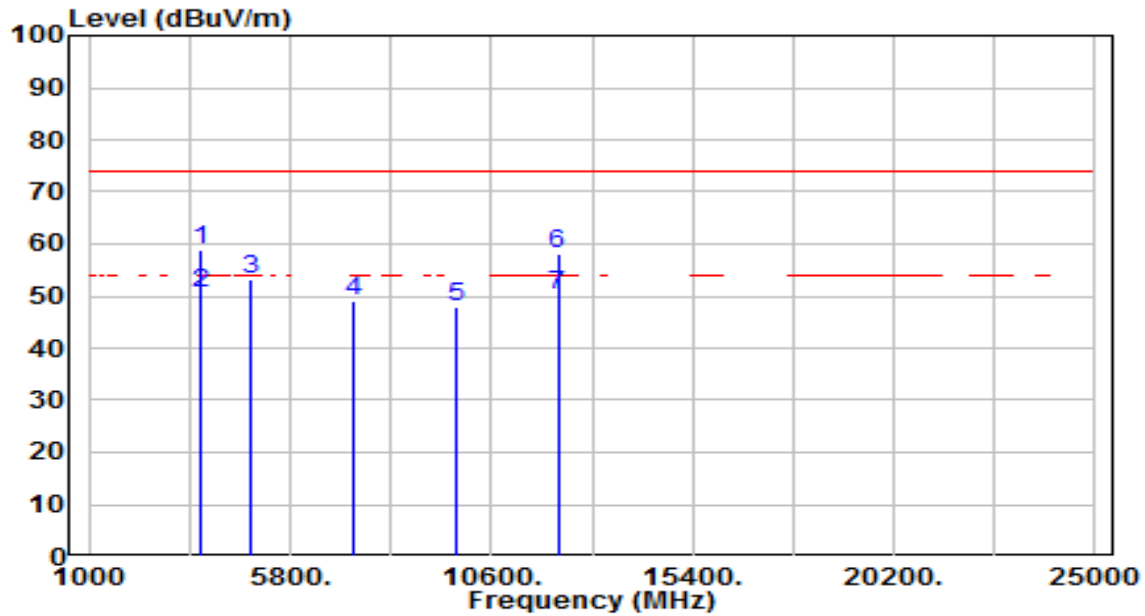


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3616.938	50.14	0.20	50.34	-23.66	74.00	200	196	Peak
2	4824.000	45.03	3.91	48.94	-25.06	74.00	200	360	Peak
3	7236.000	34.40	11.94	46.34	-27.66	74.00	200	16	Peak
4	9648.000	32.27	15.79	48.06	-25.94	74.00	200	340	Peak
5	* 12060.000	36.92	18.96	55.88	-18.12	74.00	204	217	Peak
6	* 12060.000	26.44	18.96	45.40	-8.60	54.00	204	217	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

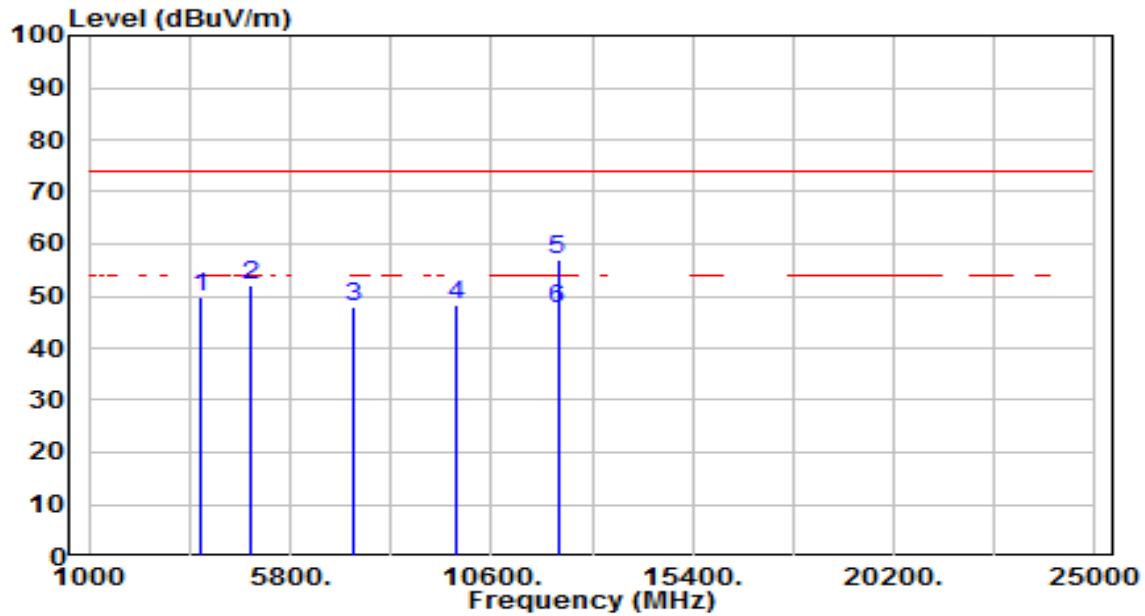


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	3648.281	58.52	0.28	58.80	-15.20	74.00	204	173	Peak
2	*	3648.281	50.11	0.28	50.39	-3.61	54.00	204	173	Average
3		4874.000	49.22	4.02	53.24	-20.76	74.00	200	155	Peak
4		7311.000	36.89	12.20	49.10	-24.90	74.00	200	134	Peak
5		9748.000	31.90	16.01	47.91	-26.09	74.00	200	264	Peak
6		12185.000	39.28	18.86	58.13	-15.87	74.00	220	166	Peak
7		12185.000	31.22	18.86	50.08	-3.92	54.00	220	166	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

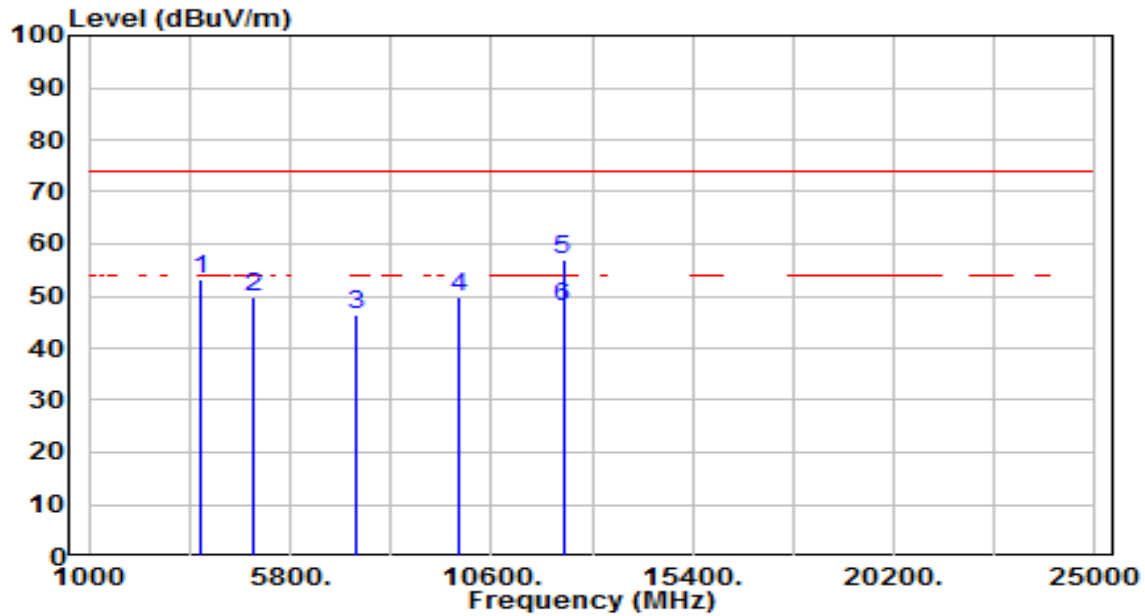


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3649.344	49.67	0.28	49.95	-24.05	74.00	200	192	Peak
2	4874.000	48.17	4.02	52.19	-21.81	74.00	200	360	Peak
3	7311.000	35.84	12.20	48.04	-25.96	74.00	200	150	Peak
4	9748.000	32.37	16.01	48.38	-25.62	74.00	200	301	Peak
5	* 12185.000	38.21	18.86	57.07	-16.93	74.00	205	217	Peak
6	* 12185.000	28.52	18.86	47.38	-6.62	54.00	205	217	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

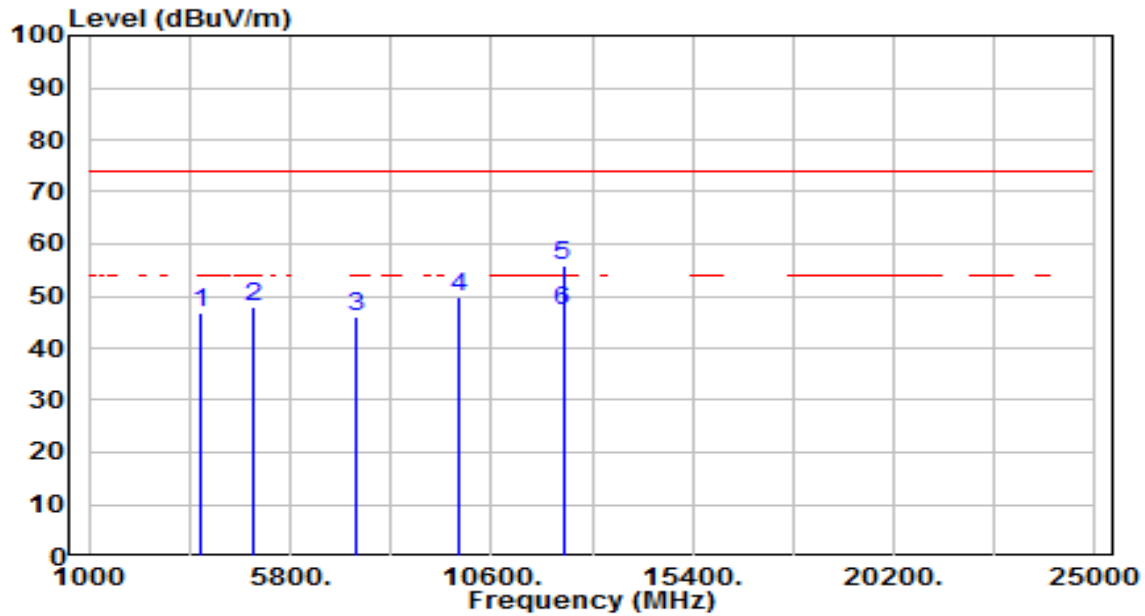


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3688.125	52.74	0.38	53.13	-20.87	74.00	200	183	Peak
2	4924.000	45.54	4.13	49.66	-24.34	74.00	200	165	Peak
3	7386.000	33.90	12.46	46.37	-27.63	74.00	200	126	Peak
4	9848.000	33.69	16.23	49.92	-24.08	74.00	200	320	Peak
5	* 12310.000	38.20	18.75	56.95	-17.05	74.00	214	172	Peak
6	* 12310.000	29.22	18.75	47.97	-6.03	54.00	214	172	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

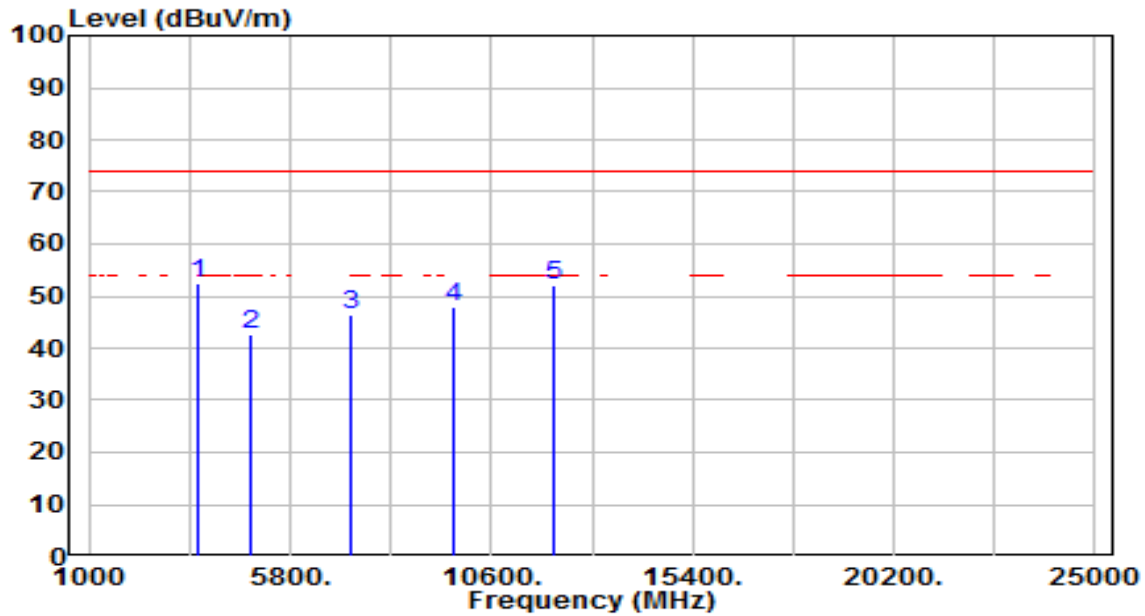


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3686.000	46.28	0.38	46.66	-27.34	74.00	200	193	Peak
2	4924.000	43.73	4.13	47.86	-26.14	74.00	200	360	Peak
3	7386.000	33.41	12.46	45.87	-28.13	74.00	200	168	Peak
4	9848.000	33.40	16.23	49.63	-24.37	74.00	200	90	Peak
5	* 12310.000	37.15	18.75	55.90	-18.10	74.00	204	207	Peak
6	* 12310.000	28.56	18.75	47.31	-6.69	54.00	204	207	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0+1	Test Voltage	AC 120V/60Hz

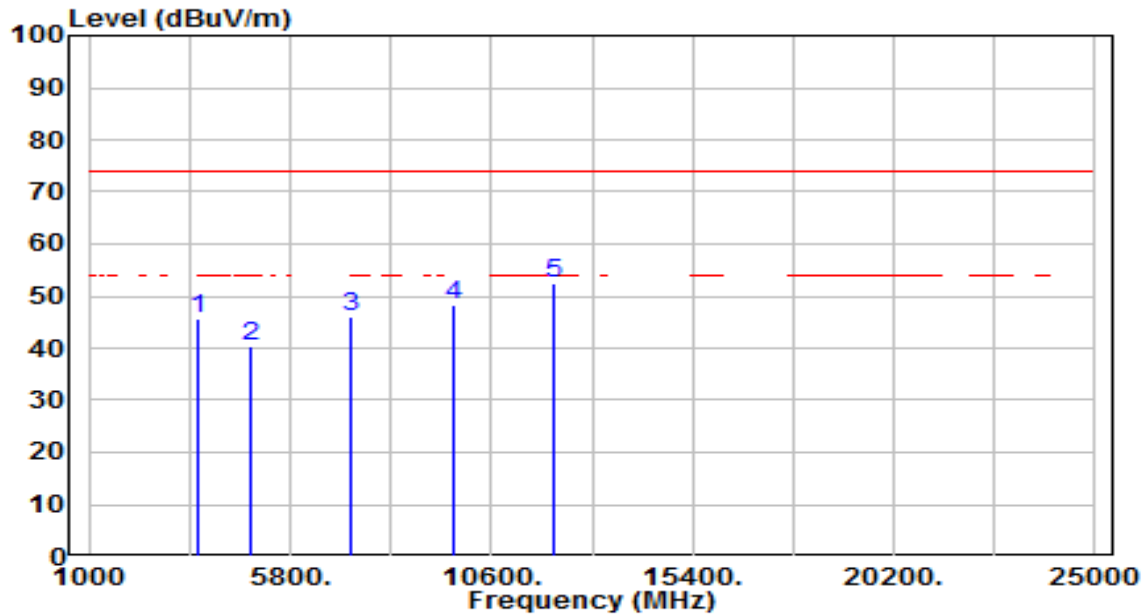


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	3617.469	52.43	0.20	52.62	-21.38	74.00	200	185	Peak
2		4844.000	38.70	3.96	42.66	-31.34	74.00	200	160	Peak
3		7266.000	34.52	12.04	46.56	-27.44	74.00	200	178	Peak
4		9688.000	31.91	15.88	47.79	-26.21	74.00	200	38	Peak
5		12110.000	33.14	18.92	52.06	-21.94	74.00	200	171	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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0+1	Test Voltage	AC 120V/60Hz

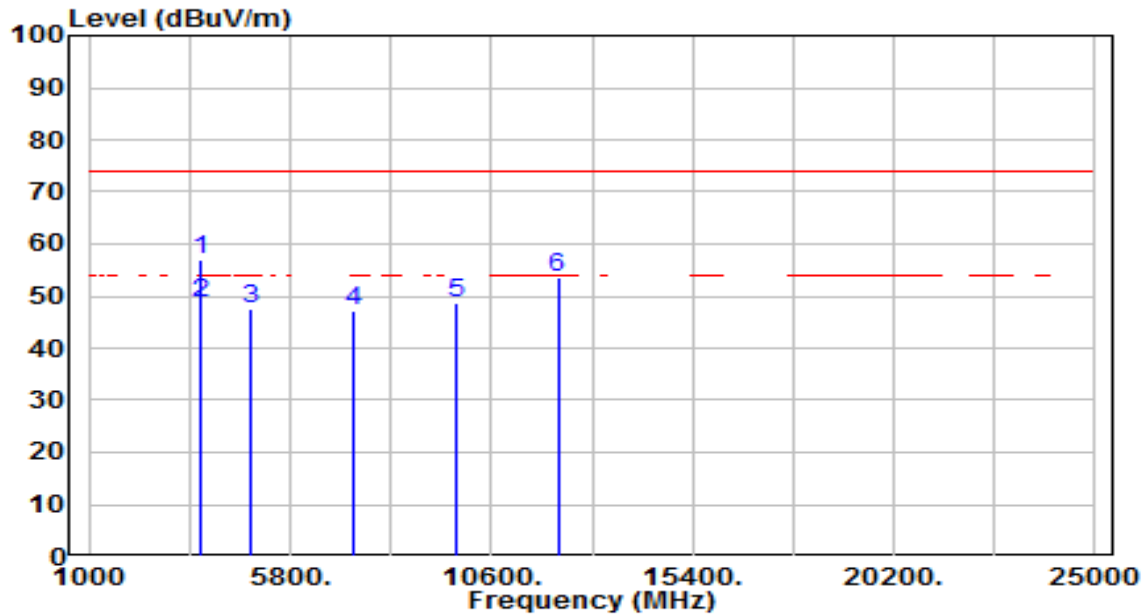


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3619.594	45.59	0.20	45.80	-28.20	74.00	200	179	Peak
2	4844.000	36.37	3.96	40.33	-33.67	74.00	200	360	Peak
3	7266.000	34.00	12.04	46.05	-27.95	74.00	200	6	Peak
4	9688.000	32.34	15.88	48.22	-25.78	74.00	200	201	Peak
5	* 12110.000	33.64	18.92	52.56	-21.44	74.00	200	208	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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

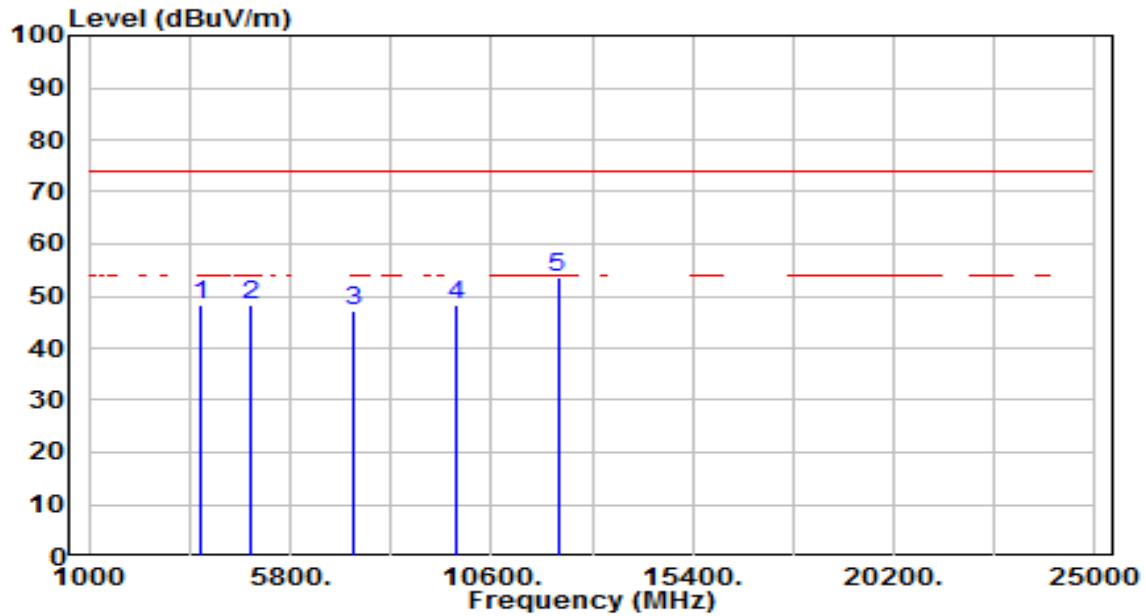


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	3638.719	56.88	0.25	57.13	-16.87	74.00	201	180	Peak
2	*	3638.719	48.24	0.25	48.49	-5.51	54.00	201	180	Average
3		4874.000	43.37	4.02	47.39	-26.61	74.00	200	152	Peak
4		7311.000	34.89	12.20	47.09	-26.91	74.00	200	126	Peak
5		9748.000	32.61	16.01	48.62	-25.38	74.00	200	211	Peak
6		12185.000	34.63	18.86	53.49	-20.51	74.00	200	190	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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

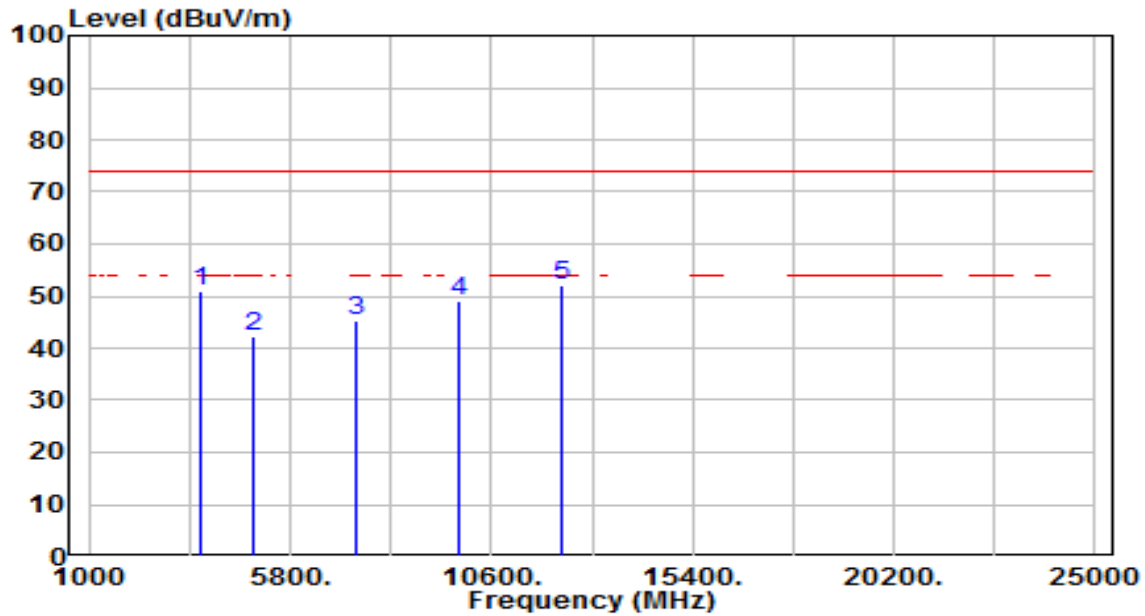


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3639.781	47.90	0.26	48.16	-25.84	74.00	200	164	Peak
2	4874.000	44.16	4.02	48.18	-25.82	74.00	200	360	Peak
3	7311.000	34.85	12.20	47.05	-26.95	74.00	200	189	Peak
4	9748.000	32.44	16.01	48.45	-25.55	74.00	200	270	Peak
5	* 12185.000	34.71	18.86	53.57	-20.43	74.00	200	210	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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 9_ANT 0+1	Test Voltage	AC 120V/60Hz

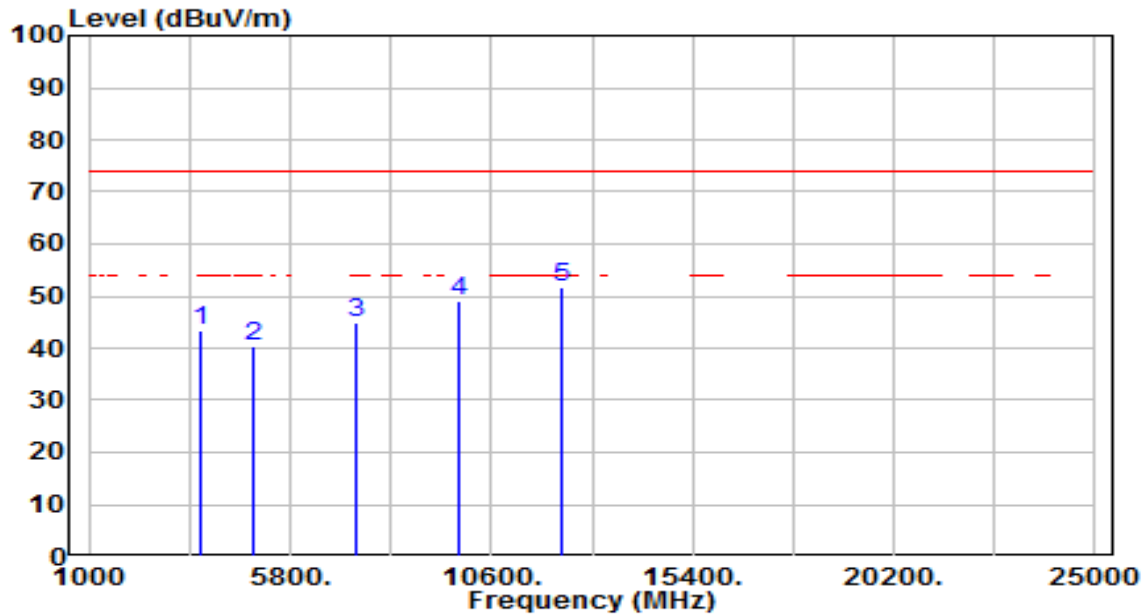


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3661.563	50.56	0.31	50.87	-23.13	74.00	200	181	Peak
2	4904.000	38.04	4.08	42.13	-31.87	74.00	200	152	Peak
3	7356.000	33.02	12.36	45.38	-28.62	74.00	200	239	Peak
4	9808.000	32.74	16.14	48.89	-25.11	74.00	200	156	Peak
5	* 12260.000	33.46	18.79	52.25	-21.75	74.00	200	170	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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 9_ANT 0+1	Test Voltage	AC 120V/60Hz

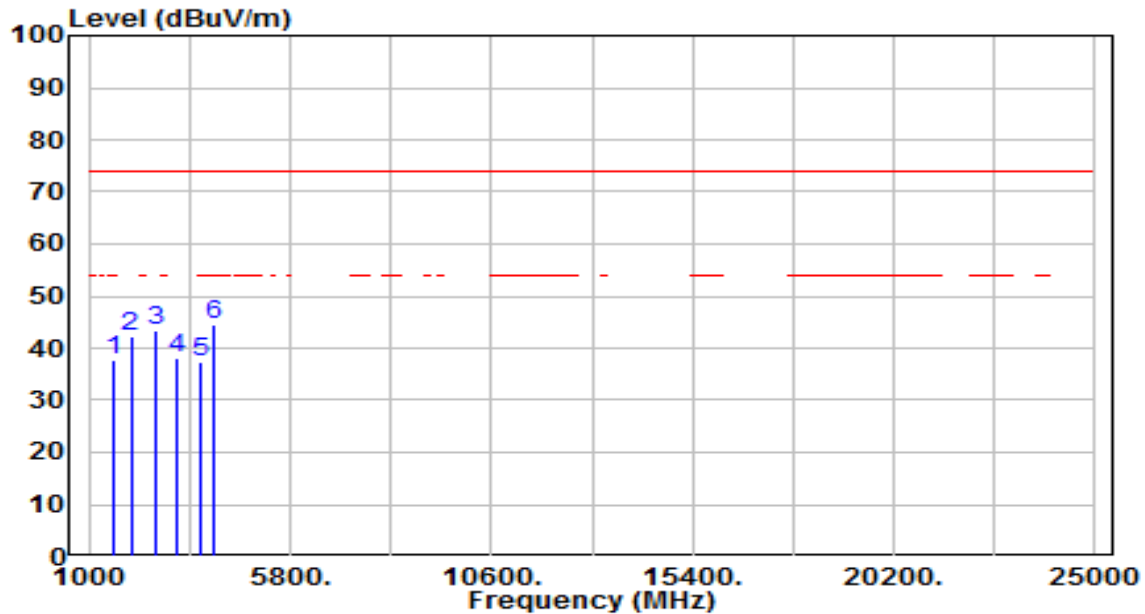


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3662.094	43.15	0.31	43.46	-30.54	74.00	200	192	Peak
2	4904.000	36.31	4.08	40.40	-33.60	74.00	200	360	Peak
3	7356.000	32.42	12.36	44.78	-29.22	74.00	200	63	Peak
4	9808.000	33.01	16.14	49.15	-24.85	74.00	200	49	Peak
5	* 12260.000	32.97	18.79	51.76	-22.24	74.00	200	216	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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_RX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

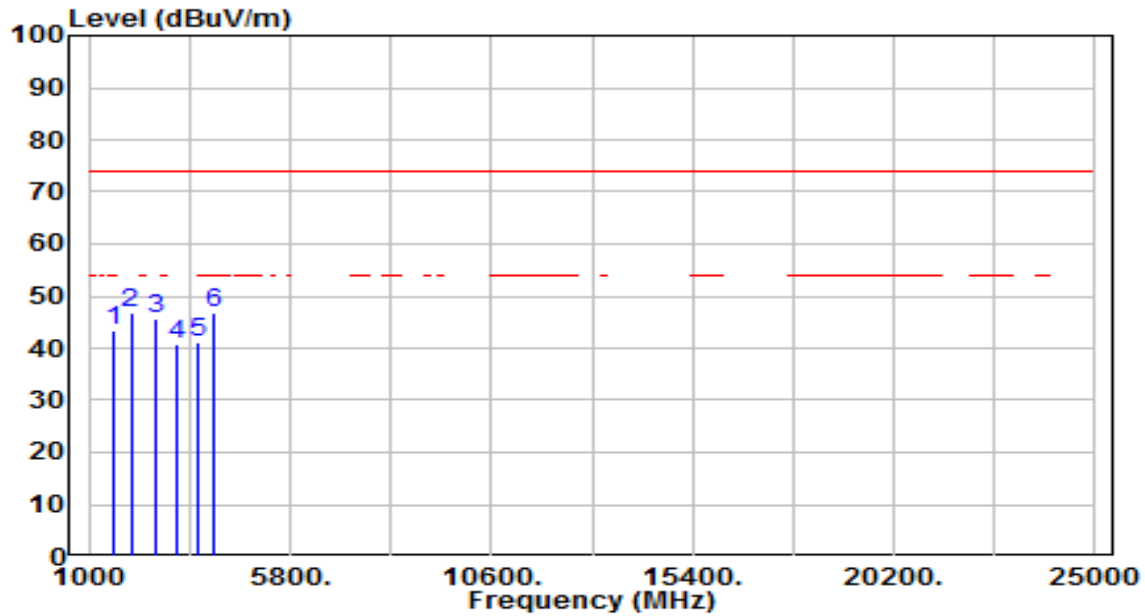


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	1562.063	41.74	-3.87	37.88	-36.12	74.00	200	100	Peak
2	1999.813	45.31	-3.00	42.31	-31.69	74.00	200	35	Peak
3	2602.781	44.77	-1.47	43.30	-30.70	74.00	200	250	Peak
4	3125.000	39.40	-1.25	38.15	-35.85	74.00	200	170	Peak
5	3646.156	37.09	0.27	37.36	-36.64	74.00	200	50	Peak
6	* 4000.500	43.34	1.20	44.54	-29.46	74.00	200	265	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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_RX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz



No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	1561.000	47.13	-3.87	43.26	-30.74	74.00	200	180	Peak
2	* 1999.813	49.95	-3.00	46.95	-27.05	74.00	200	185	Peak
3	2604.906	47.31	-1.47	45.84	-28.16	74.00	200	180	Peak
4	3122.344	41.98	-1.26	40.72	-33.28	74.00	200	195	Peak
5	3631.281	40.98	0.23	41.22	-32.78	74.00	200	135	Peak
6	3999.969	45.48	1.20	46.68	-27.32	74.00	200	135	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

7.7.2. Test Procedure Used

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

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

7.7.3. Test Setting

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3 * RBW
4. Detector = peak
5. Sweep time = auto couple

6. Trace mode = max hold
7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

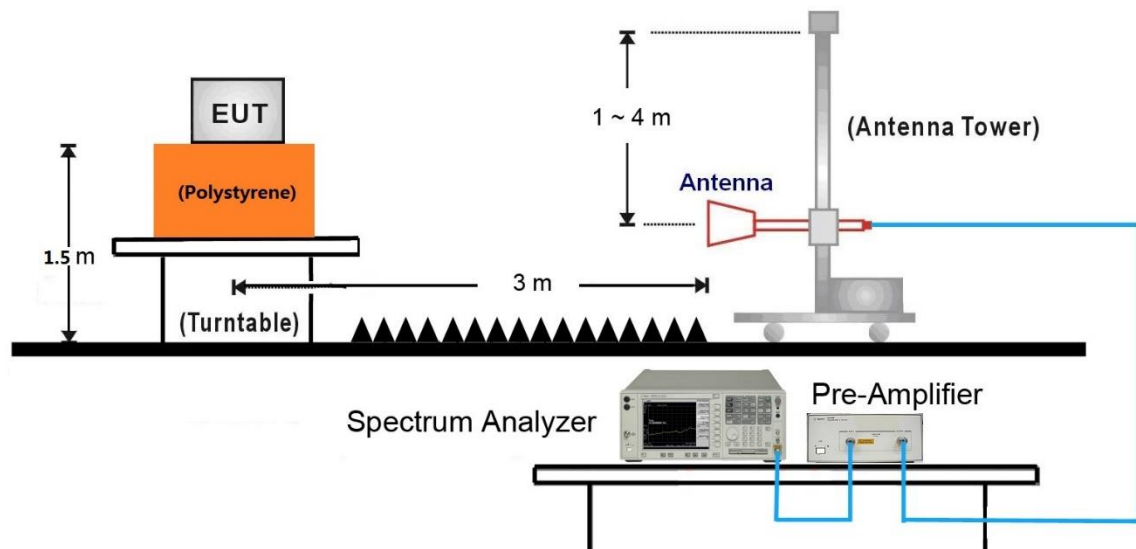
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

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. De 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

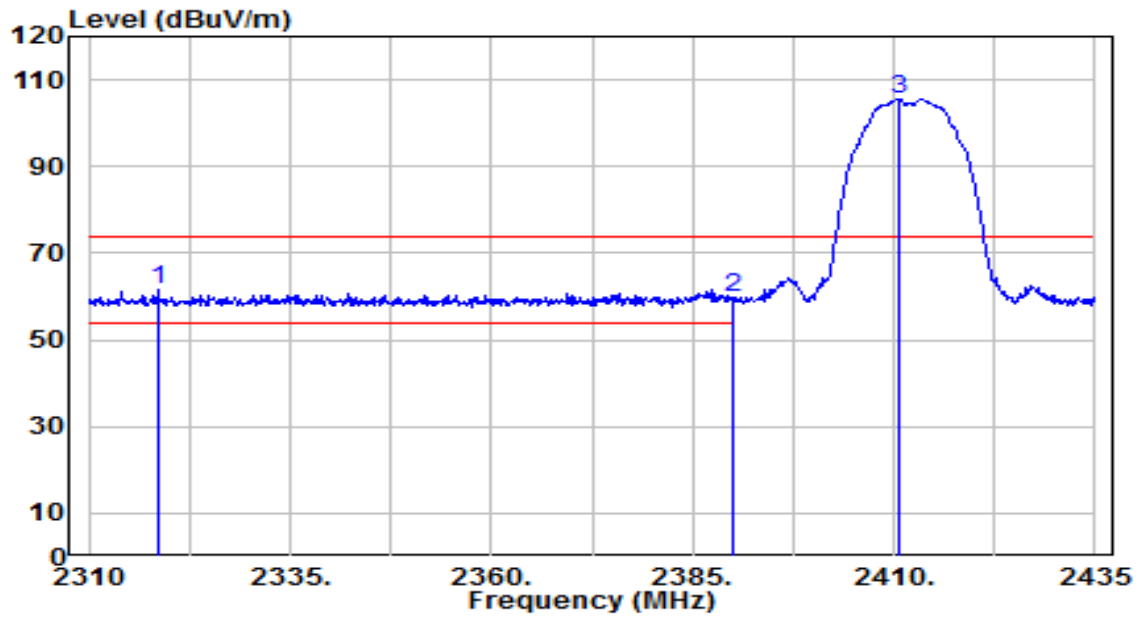
7.7.4. Test Setup

1GHz ~ 18GHz Test Setup:



7.7.5. Test Result

EUT	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

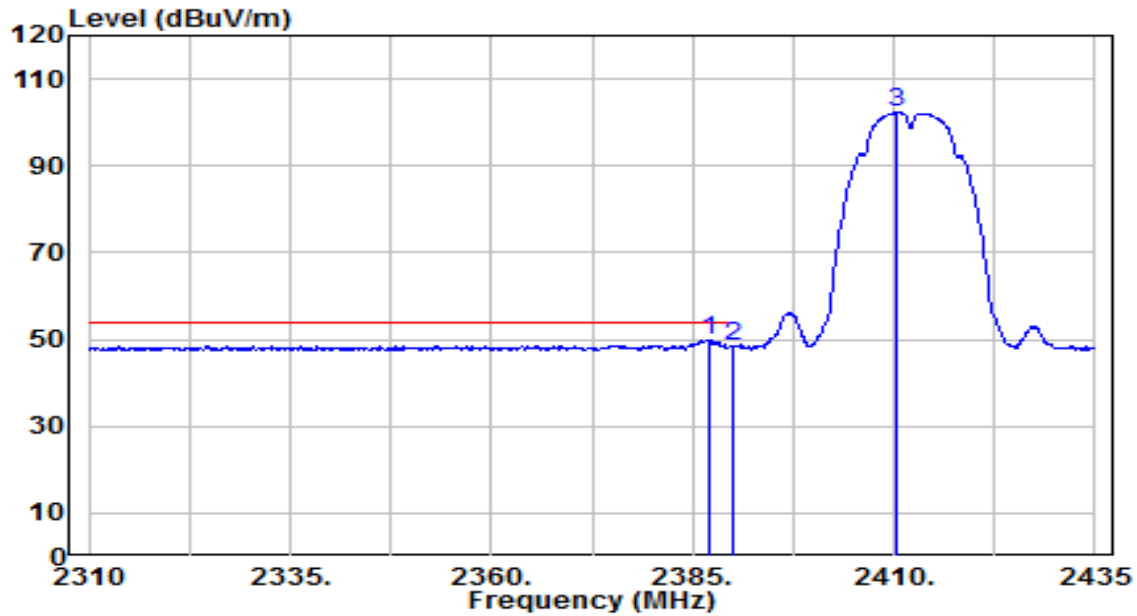


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2318.500	29.53	31.93	61.46	-12.54	74.00	155	195	Peak
2	2390.000	27.53	32.18	59.71	-14.29	74.00	155	195	Peak
3	2410.500	73.21	32.26	105.47	N/A	N/A	155	195	Peak

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

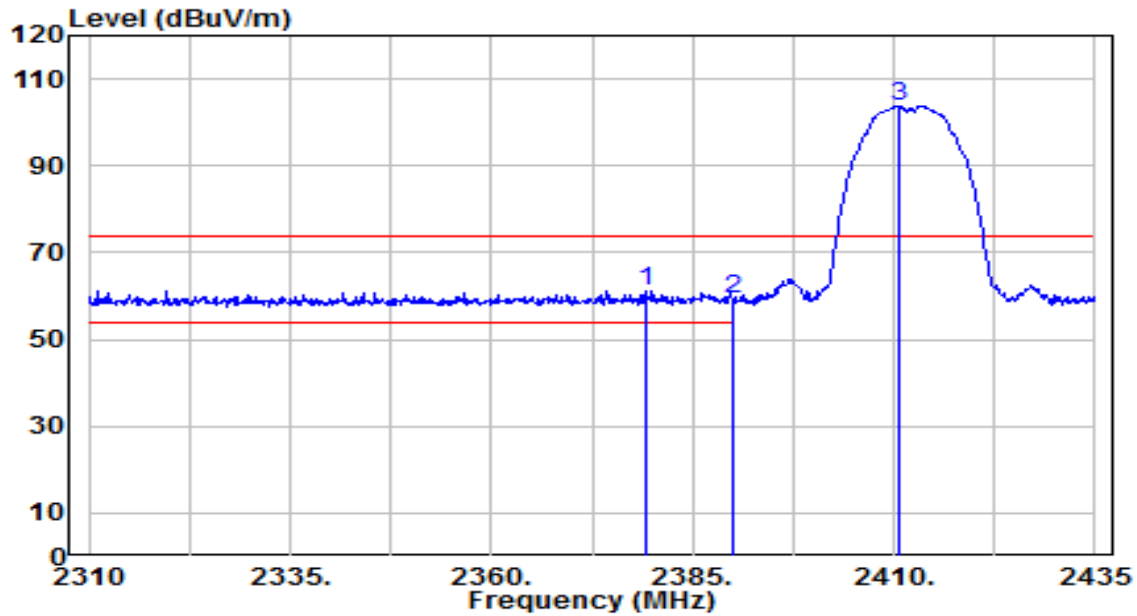


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2387.125	17.82	32.17	49.99	-4.01	54.00	155	195	Average
2		2390.000	16.29	32.18	48.48	-5.52	54.00	155	195	Average
3		2410.375	69.93	32.26	102.19	N/A	N/A	155	195	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

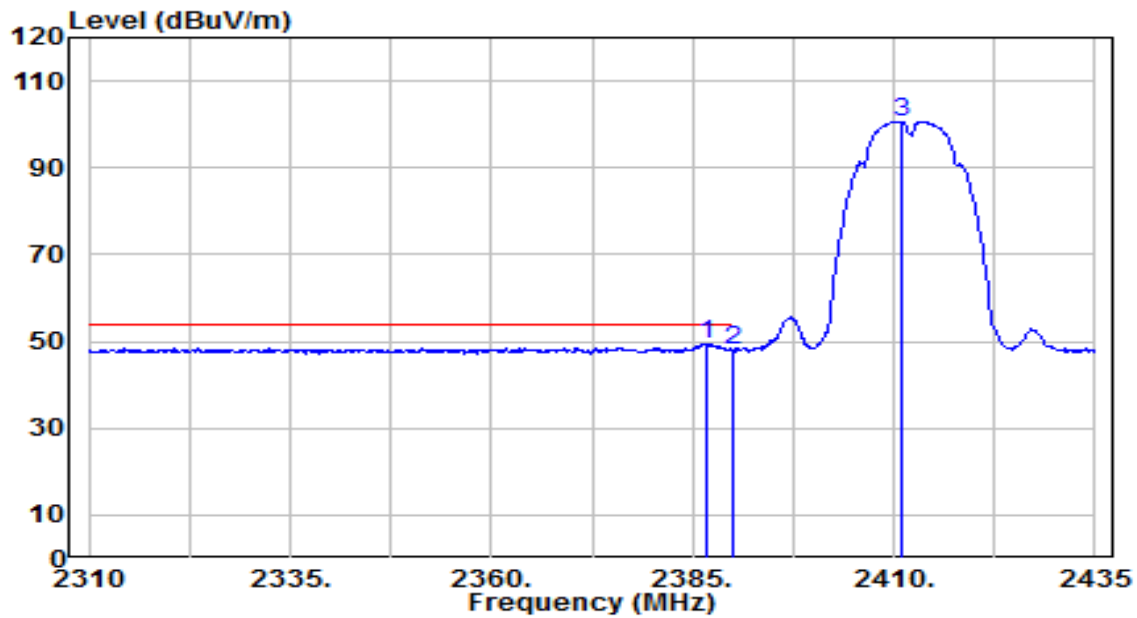


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2379.125	29.01	32.14	61.16	-12.84	74.00	215	175	Peak
2	2390.000	27.10	32.18	59.28	-14.72	74.00	215	175	Peak
3	2410.500	71.52	32.26	103.78	N/A	N/A	215	175	Peak

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

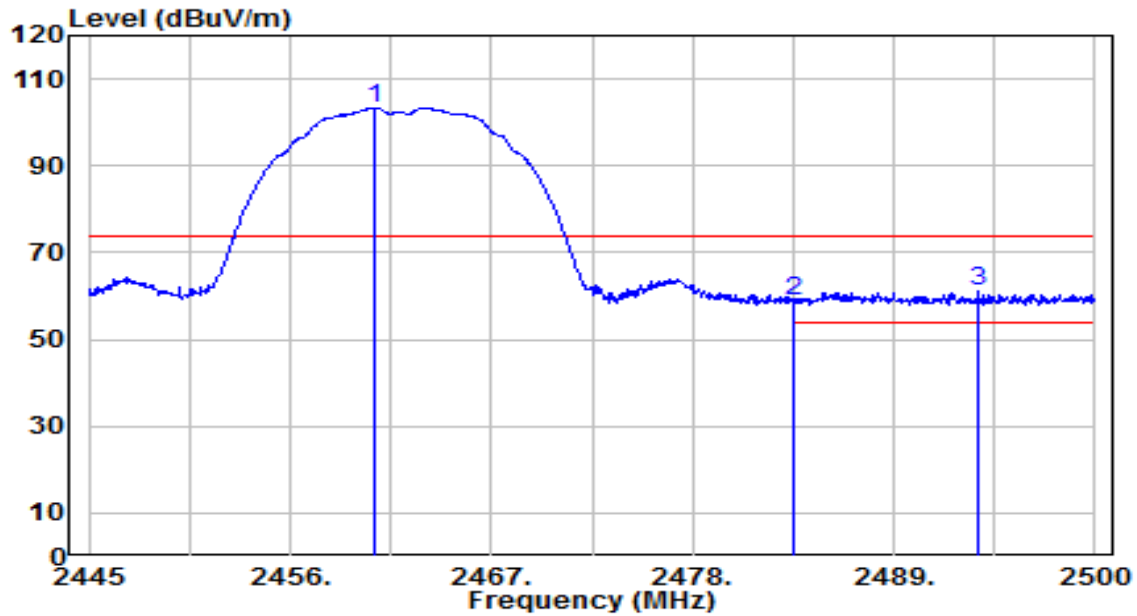


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2386.875	17.36	32.17	49.53	-4.47	54.00	215	175	Average
2		2390.000	15.89	32.18	48.08	-5.92	54.00	215	175	Average
3		2410.875	68.37	32.26	100.63	N/A	N/A	215	175	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

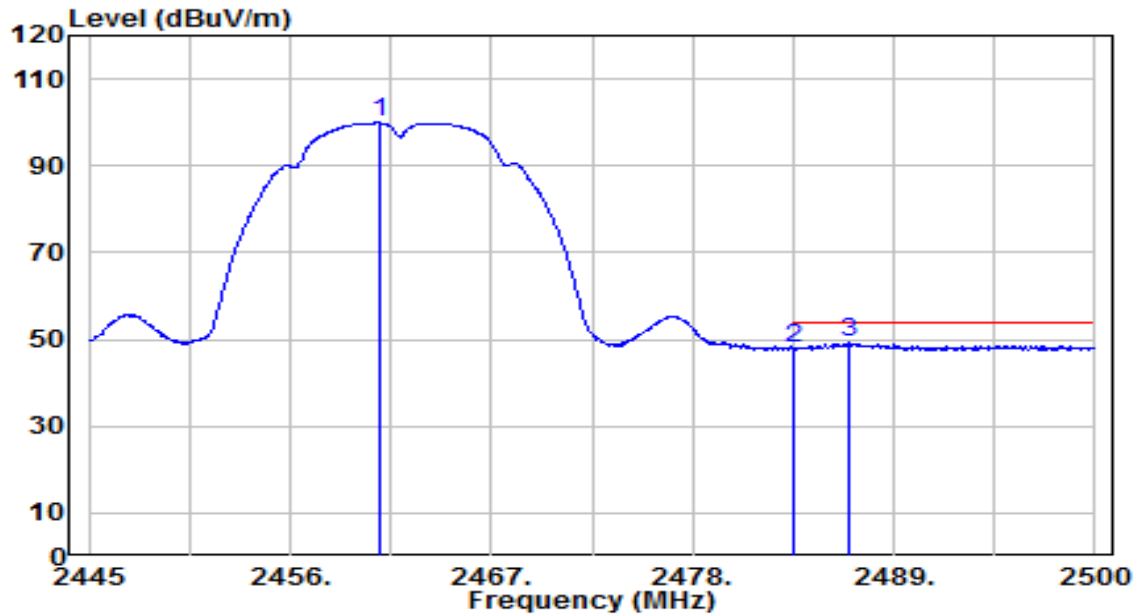


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2460.620	70.81	32.44	103.25	N/A	N/A	195	130	Peak
2	2483.500	26.57	32.52	59.09	-14.91	74.00	195	130	Peak
3	* 2493.620	28.79	32.56	61.35	-12.65	74.00	195	130	Peak

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

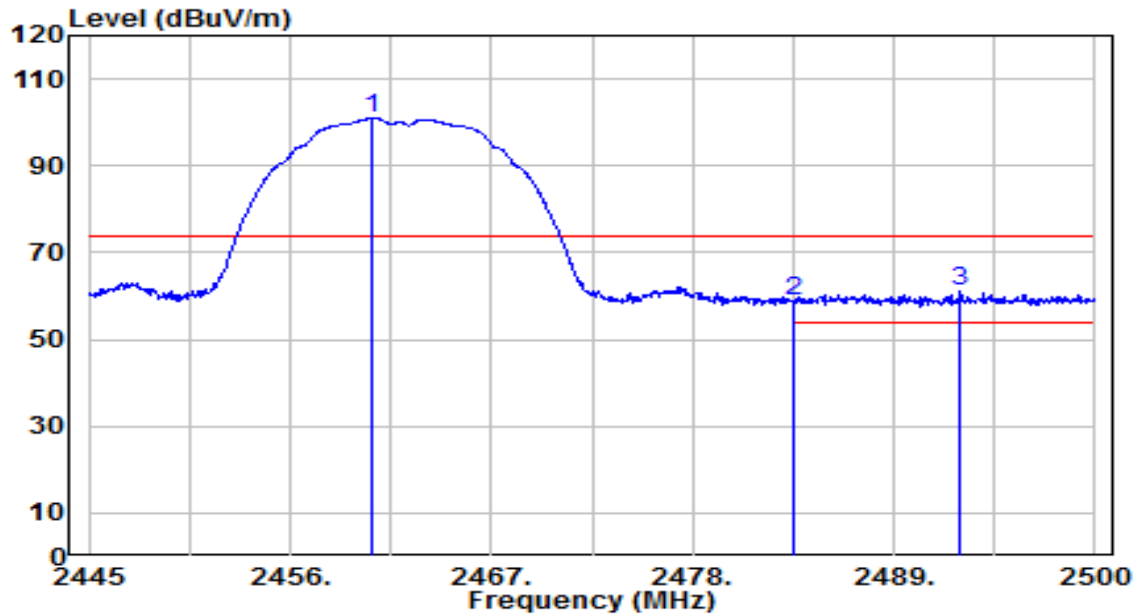


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2460.895	67.49	32.44	99.93	N/A	N/A	195	130	Average
2	2483.500	15.42	32.52	47.94	-6.06	54.00	195	130	Average
3	* 2486.580	16.92	32.53	49.45	-4.55	54.00	195	130	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

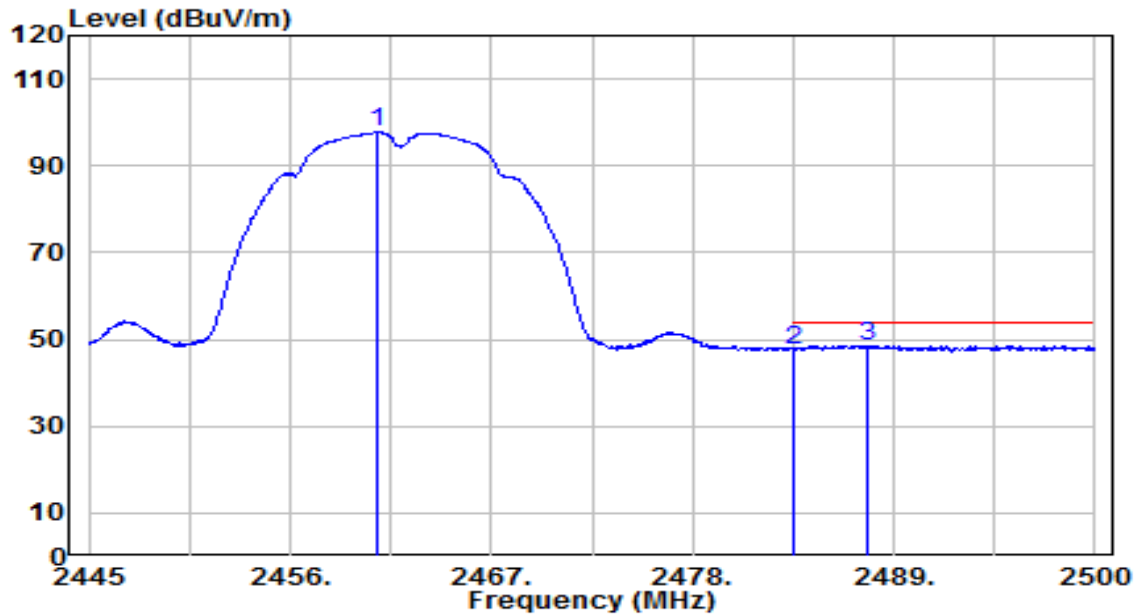


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2460.510	68.49	32.44	100.93	N/A	N/A	175	135	Peak
2	2483.500	26.18	32.52	58.70	-15.30	74.00	175	135	Peak
3	* 2492.630	28.79	32.55	61.34	-12.66	74.00	175	135	Peak

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

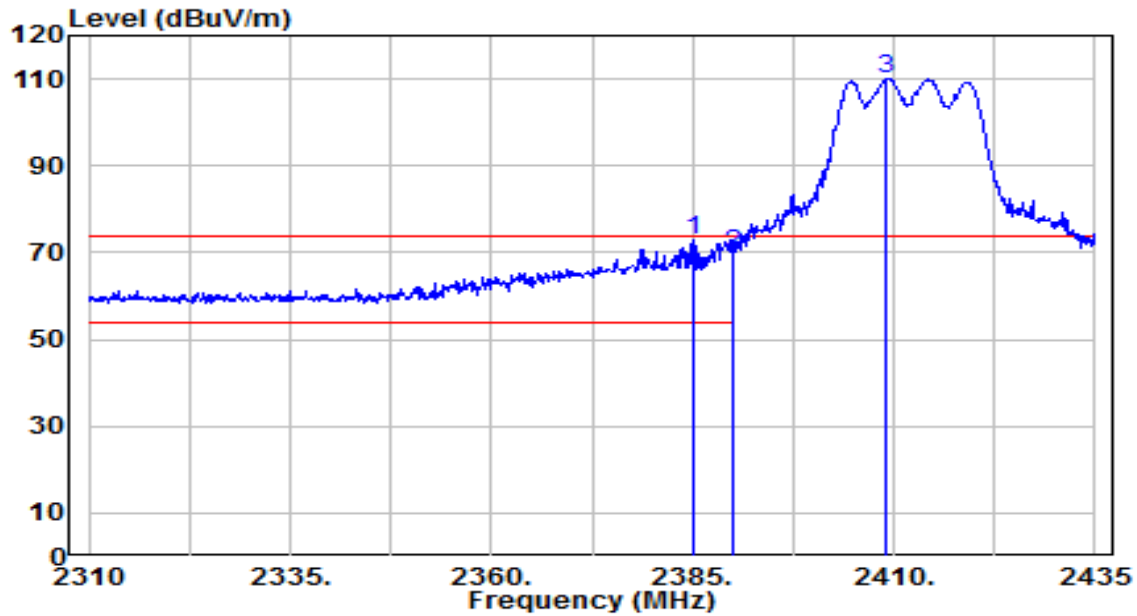


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2460.785	65.35	32.44	97.79	N/A	N/A	175	135	Average
2	2483.500	15.23	32.52	47.75	-6.25	54.00	175	135	Average
3	* 2487.625	16.08	32.54	48.62	-5.38	54.00	175	135	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

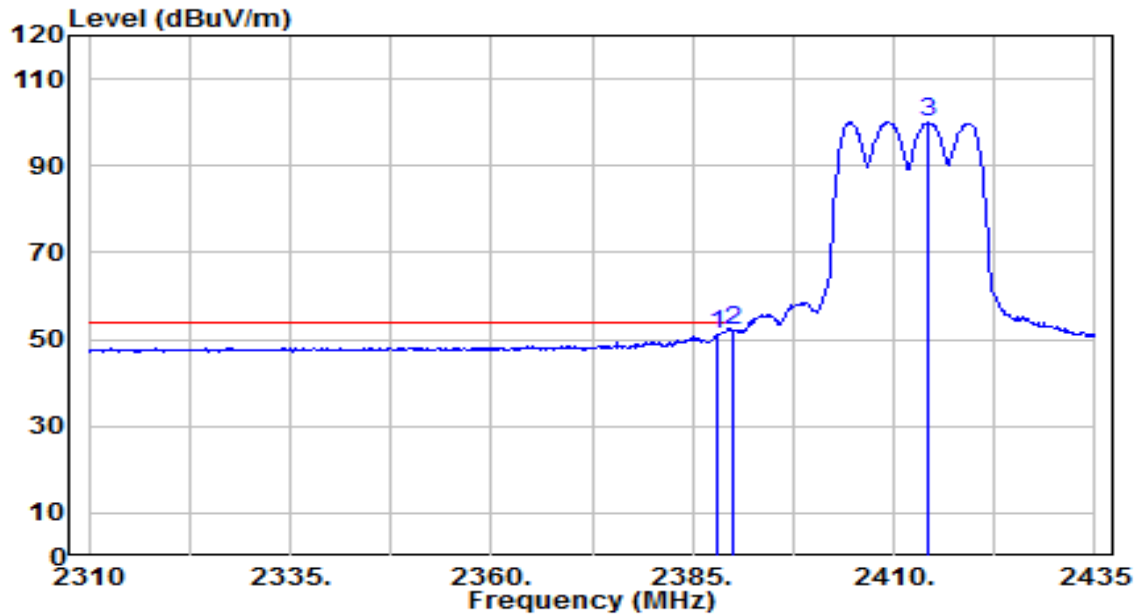


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2385.125	40.74	32.17	72.91	-1.09	74.00	155	195	Peak
2		2390.000	37.60	32.18	69.78	-4.22	74.00	155	195	Peak
3		2409.125	77.95	32.25	110.20	N/A	N/A	155	195	Peak

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

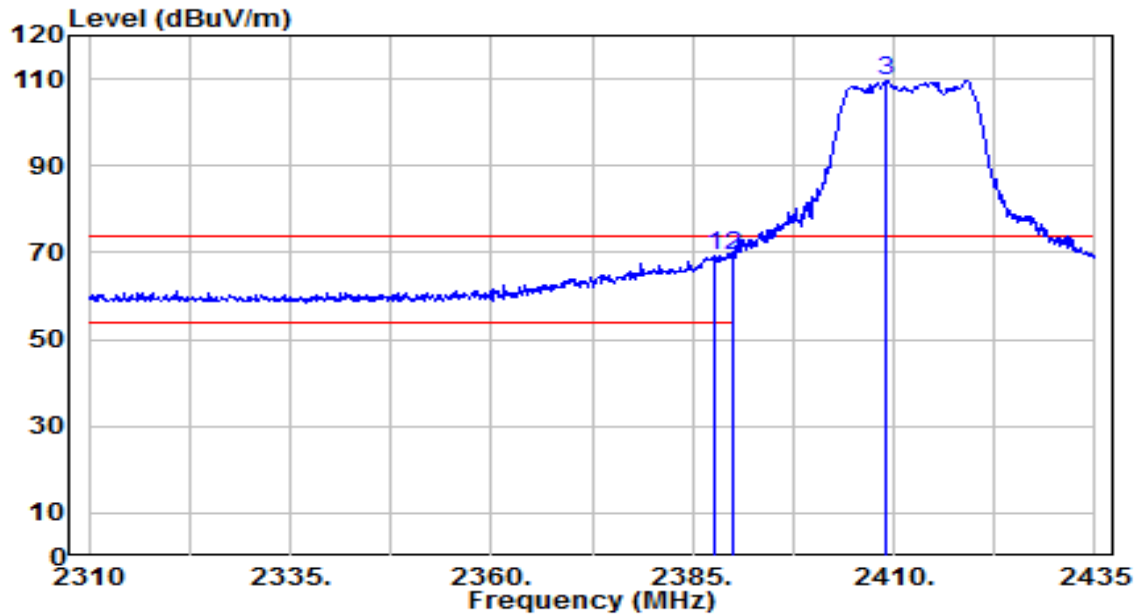


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2388.000	18.78	32.18	50.96	-3.04	54.00	155	195	Average
2	* 2390.000	19.96	32.18	52.15	-1.85	54.00	155	195	Average
3	2414.250	67.85	32.27	100.12	N/A	N/A	155	195	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

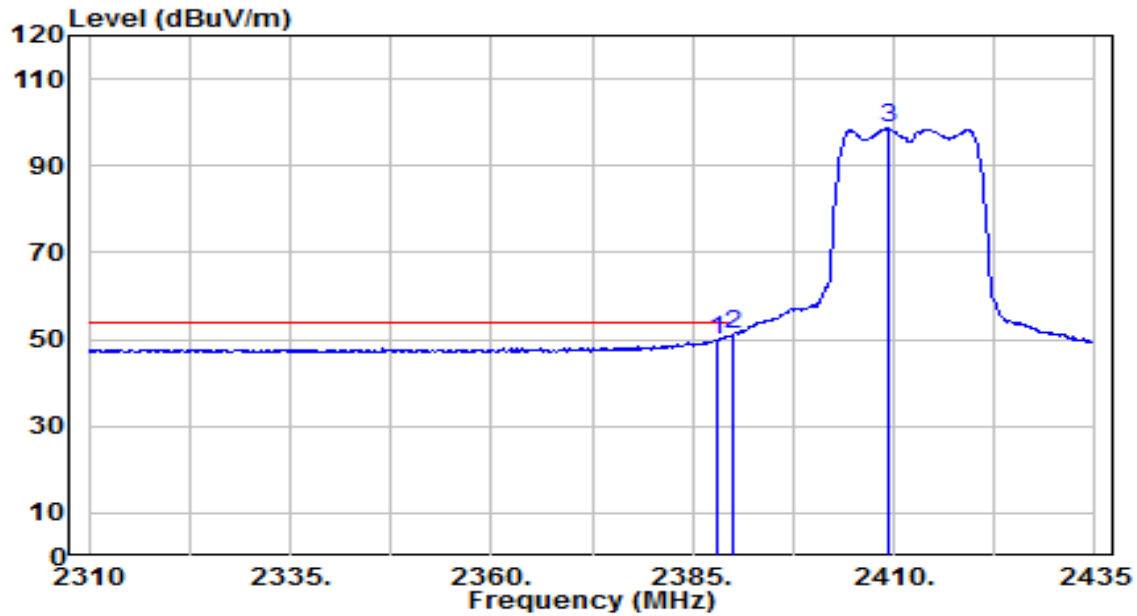


No		Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2387.875	37.18	32.18	69.36	-4.64	74.00	215	175	Peak
2		2390.000	37.04	32.18	69.22	-4.78	74.00	215	175	Peak
3		2409.125	77.48	32.25	109.73	N/A	N/A	215	175	Peak

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

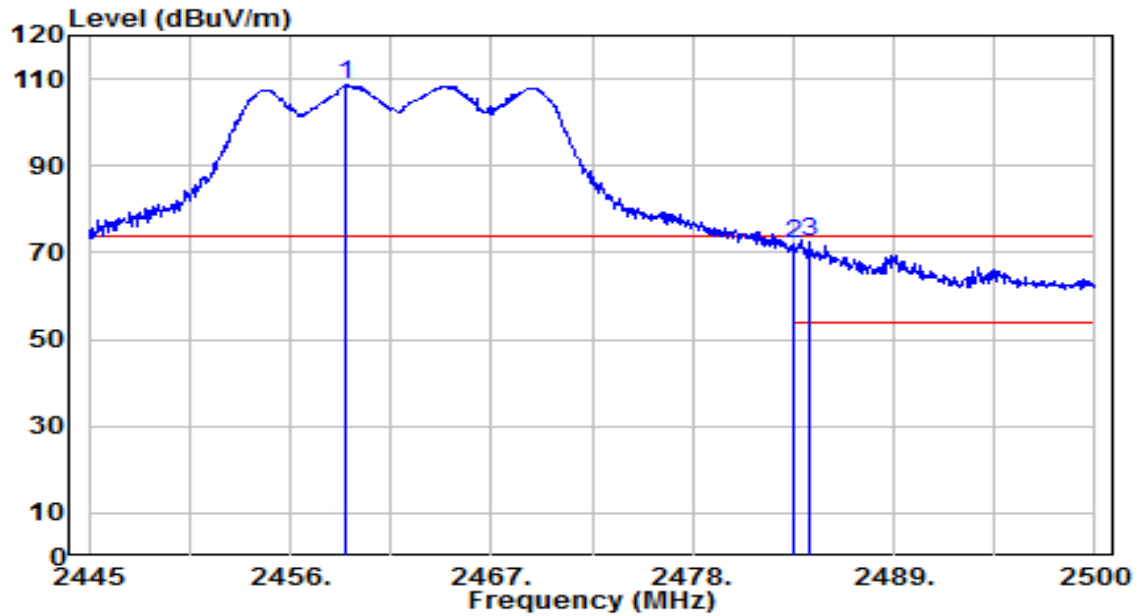


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2388.000	17.72	32.18	49.90	-4.10	54.00	215	175	Average
2	* 2390.000	18.85	32.18	51.03	-2.97	54.00	215	175	Average
3	2409.375	66.39	32.25	98.65	N/A	N/A	215	175	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

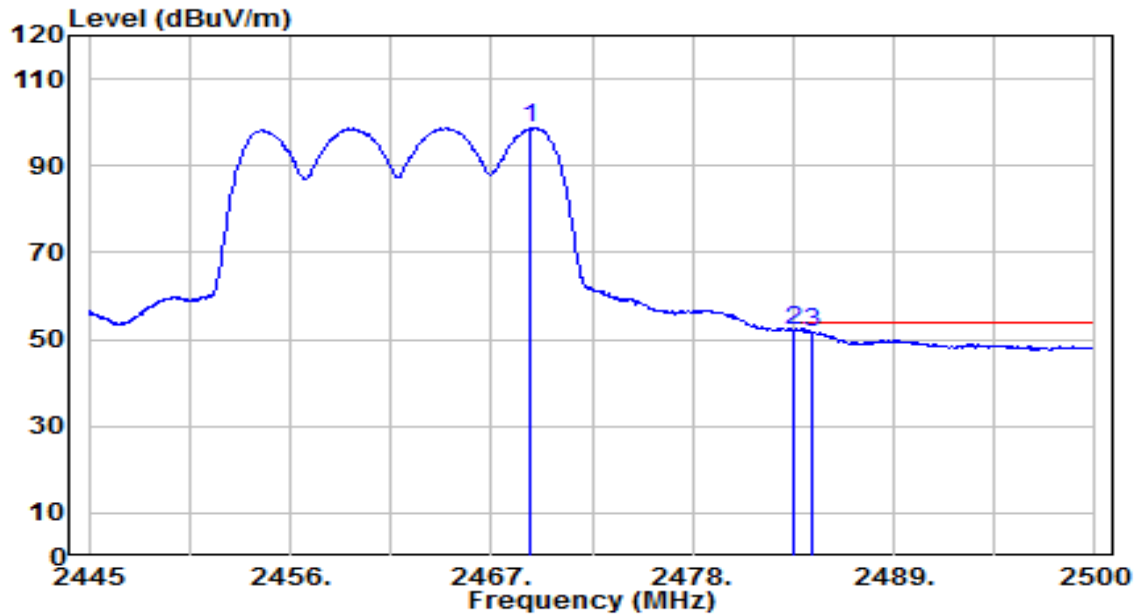


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2459.080	76.05	32.43	108.48	N/A	N/A	195	130	Peak
2	2483.500	39.29	32.52	71.81	-2.19	74.00	195	130	Peak
3	* 2484.325	40.15	32.52	72.67	-1.33	74.00	196	131	Peak

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

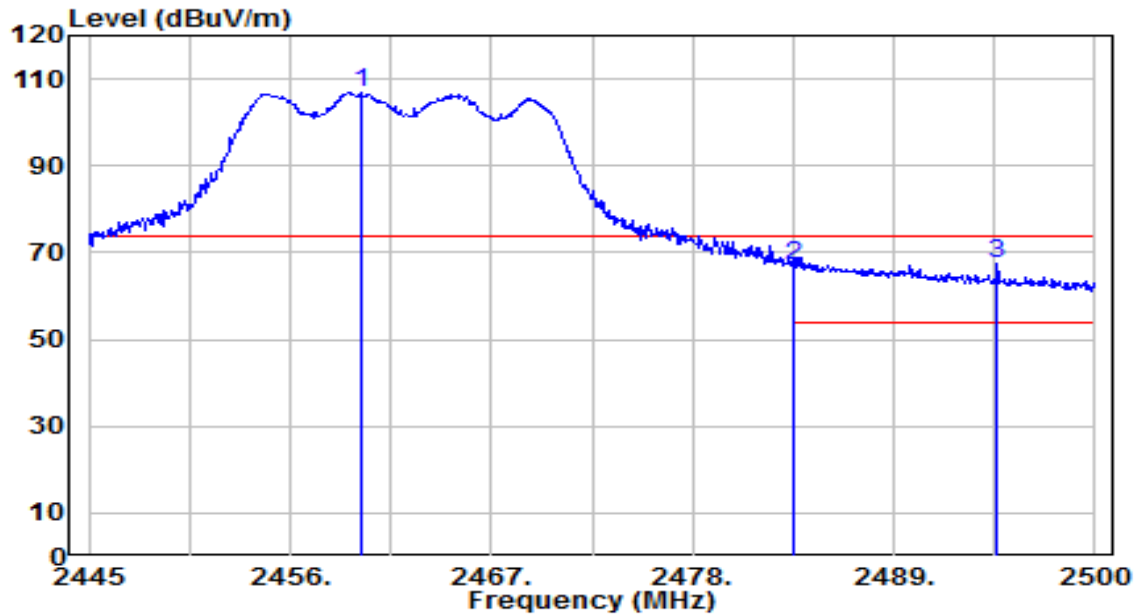


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2469.145	66.22	32.47	98.69	N/A	N/A	195	130	Average
2	* 2483.500	19.70	32.52	52.22	-1.78	54.00	195	130	Average
3	2484.545	19.16	32.52	51.69	-2.31	54.00	195	130	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

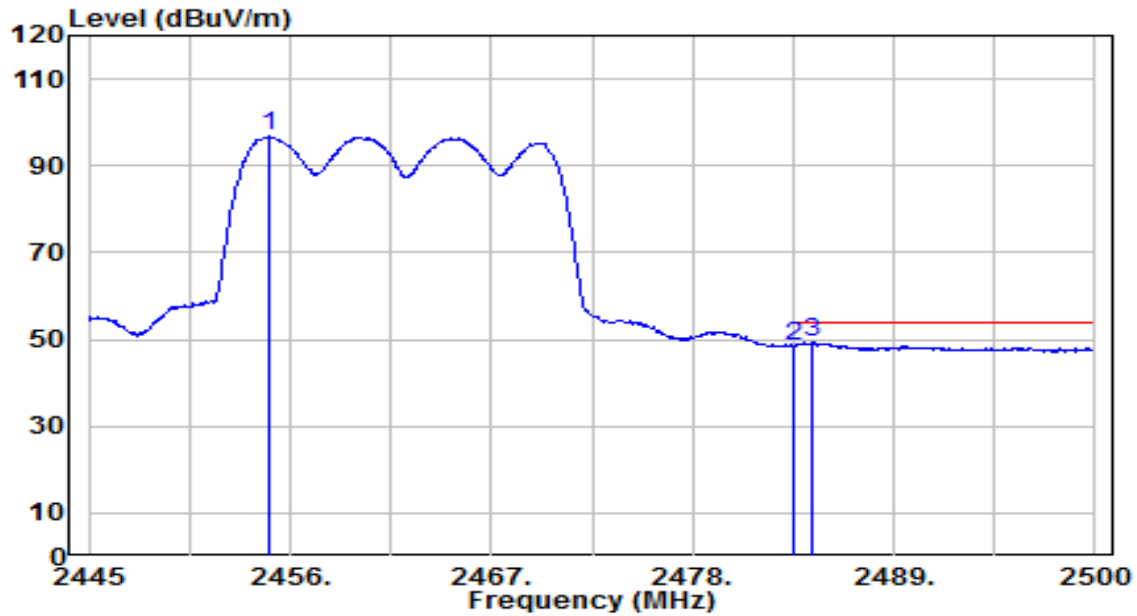


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2459.850	74.43	32.44	106.87	N/A	N/A	175	135	Peak
2	2483.500	34.29	32.52	66.81	-7.19	74.00	175	135	Peak
3	* 2494.665	35.07	32.56	67.63	-6.37	74.00	175	135	Peak

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

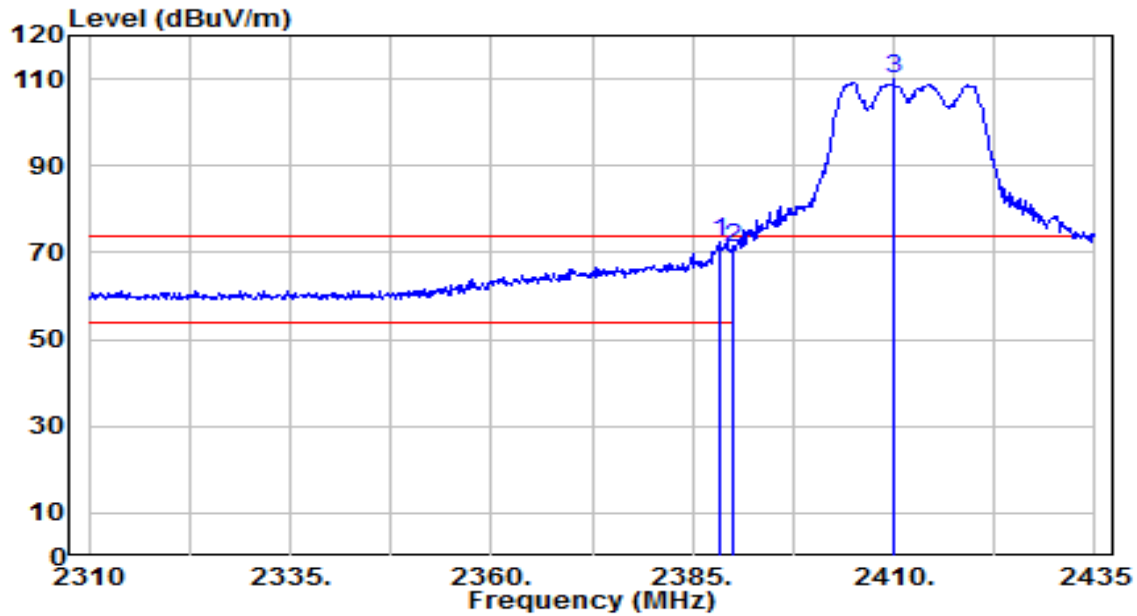


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2454.790	64.49	32.42	96.91	N/A	N/A	175	135	Average
2	2483.500	16.15	32.52	48.67	-5.33	54.00	175	135	Average
3	* 2484.600	16.76	32.52	49.28	-4.72	54.00	175	135	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

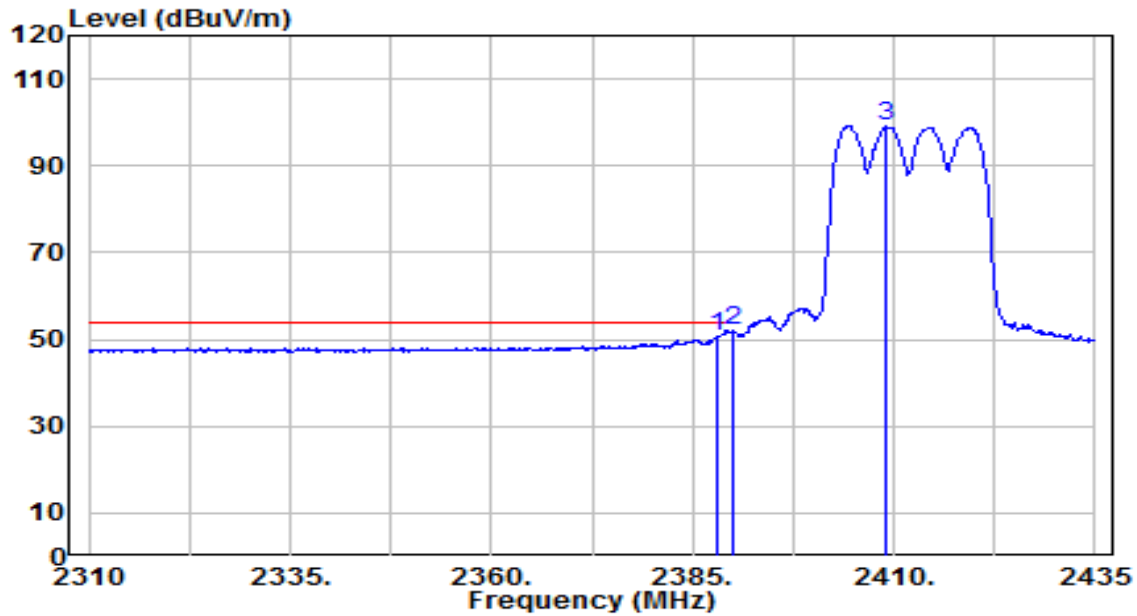


No		Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2388.375	40.45	32.18	72.63	-1.37	74.00	155	195	Peak
2		2390.000	39.08	32.18	71.26	-2.74	74.00	155	195	Peak
3		2410.000	77.87	32.26	110.13	N/A	N/A	155	195	Peak

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

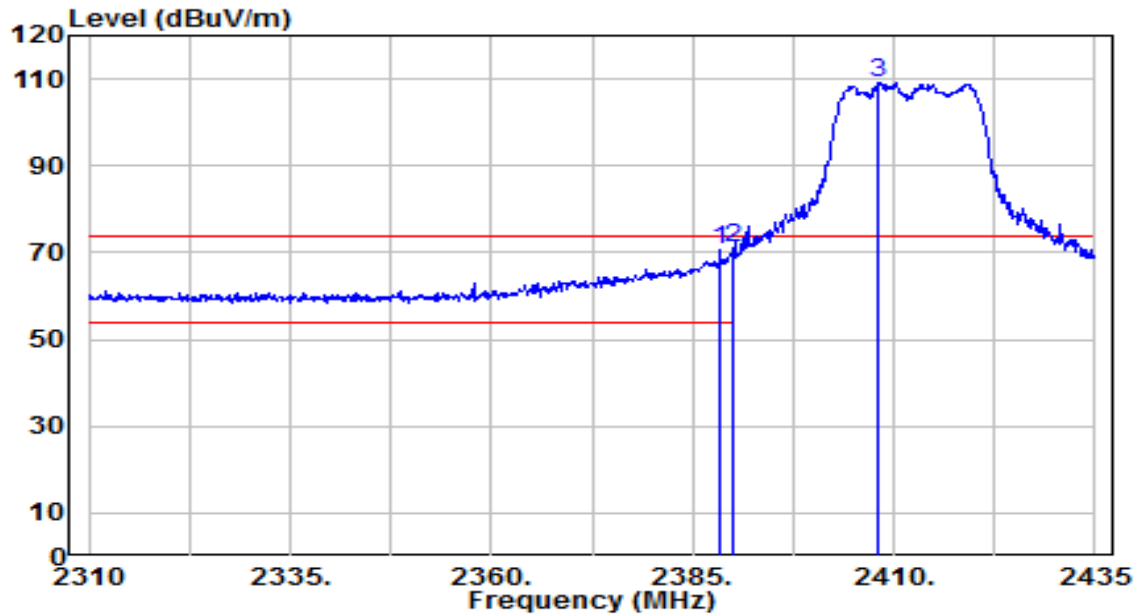


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2388.000	18.46	32.18	50.63	-3.37	54.00	155	195	Average
2	* 2390.000	19.71	32.18	51.90	-2.10	54.00	155	195	Average
3	2409.125	67.05	32.25	99.30	N/A	N/A	155	195	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

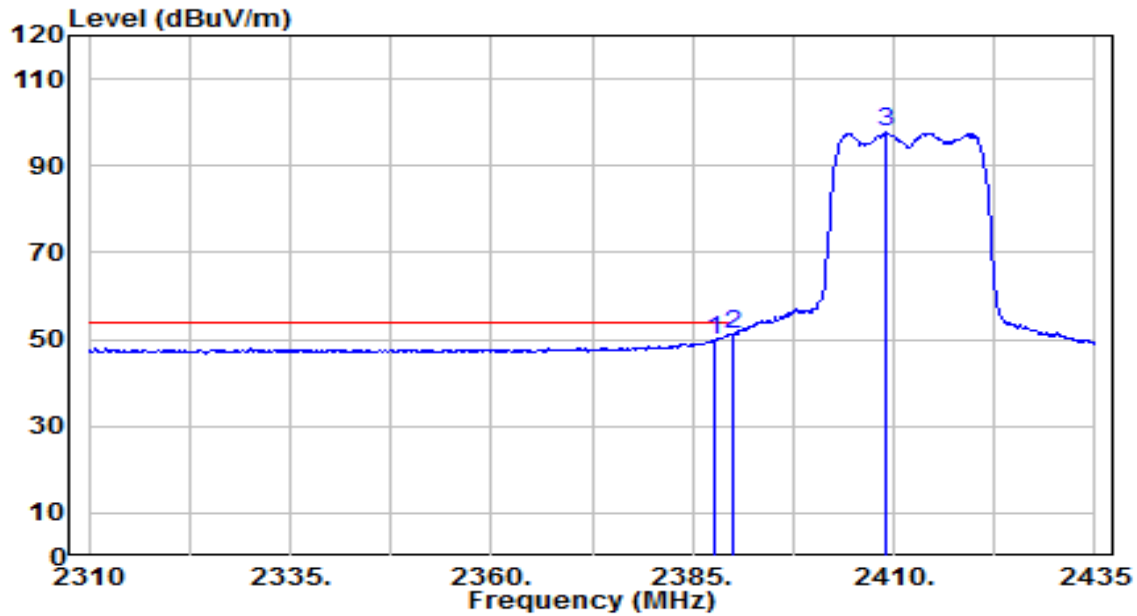


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2388.375	38.34	32.18	70.52	-3.48	74.00	215	175	Peak
2	* 2390.000	39.08	32.18	71.26	-2.74	74.00	215	175	Peak
3	2408.125	76.99	32.25	109.24	N/A	N/A	215	175	Peak

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

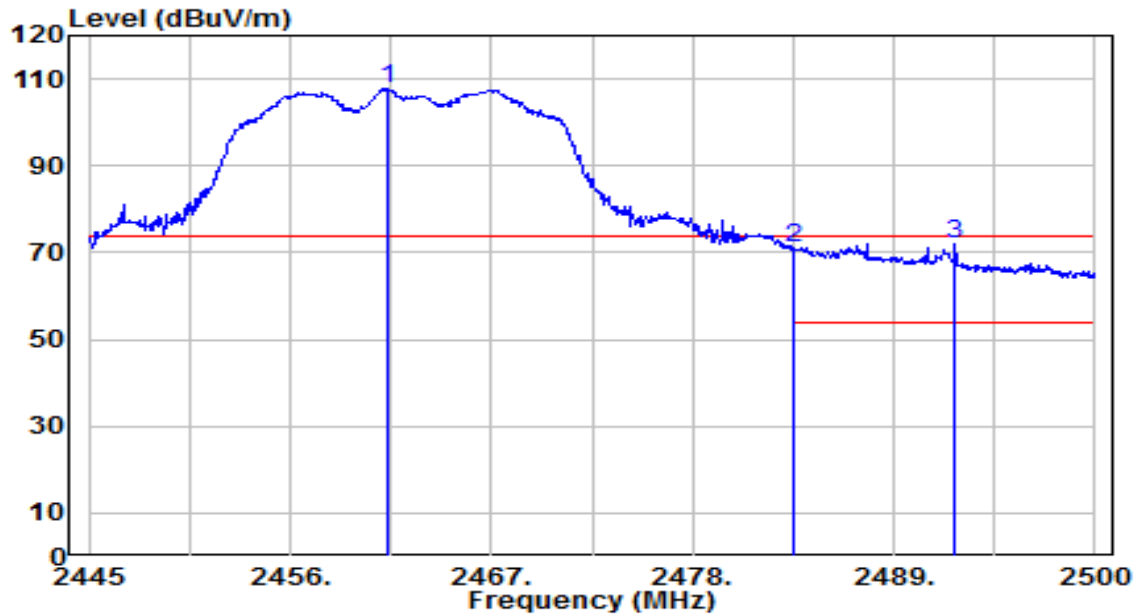


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2387.625	17.85	32.18	50.03	-3.97	54.00	215	175	Average
2	* 2390.000	19.06	32.18	51.24	-2.76	54.00	215	175	Average
3	2408.875	65.48	32.25	97.73	N/A	N/A	215	175	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

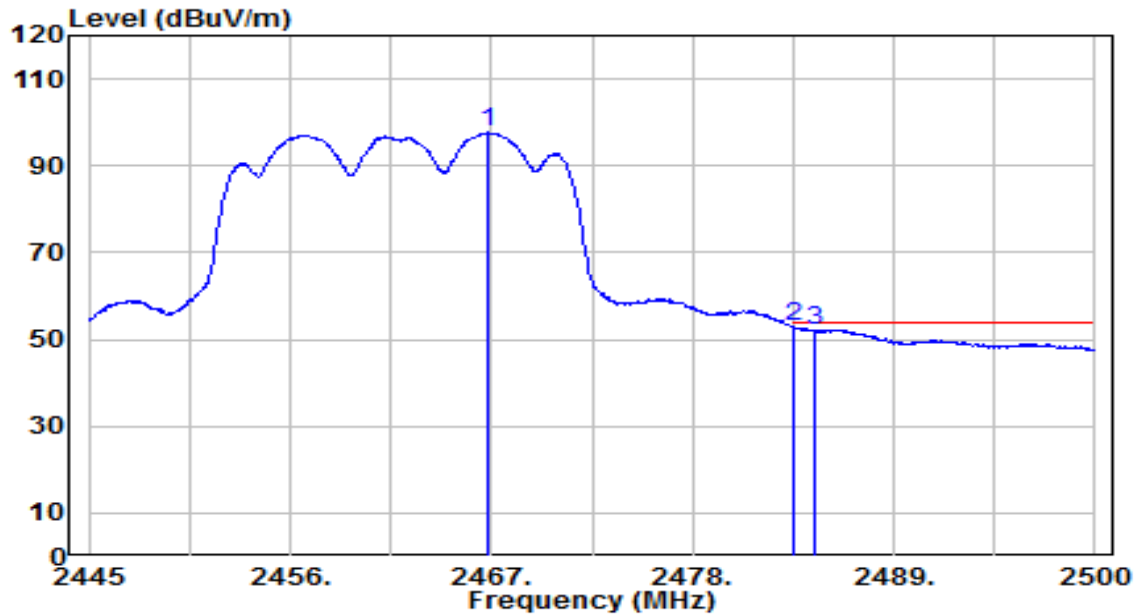


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2461.335	75.21	32.44	107.65	N/A	N/A	195	130	Peak
2	2483.500	38.46	32.52	70.98	-3.02	74.00	195	130	Peak
3	* 2492.355	39.46	32.55	72.01	-1.99	74.00	195	130	Peak

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

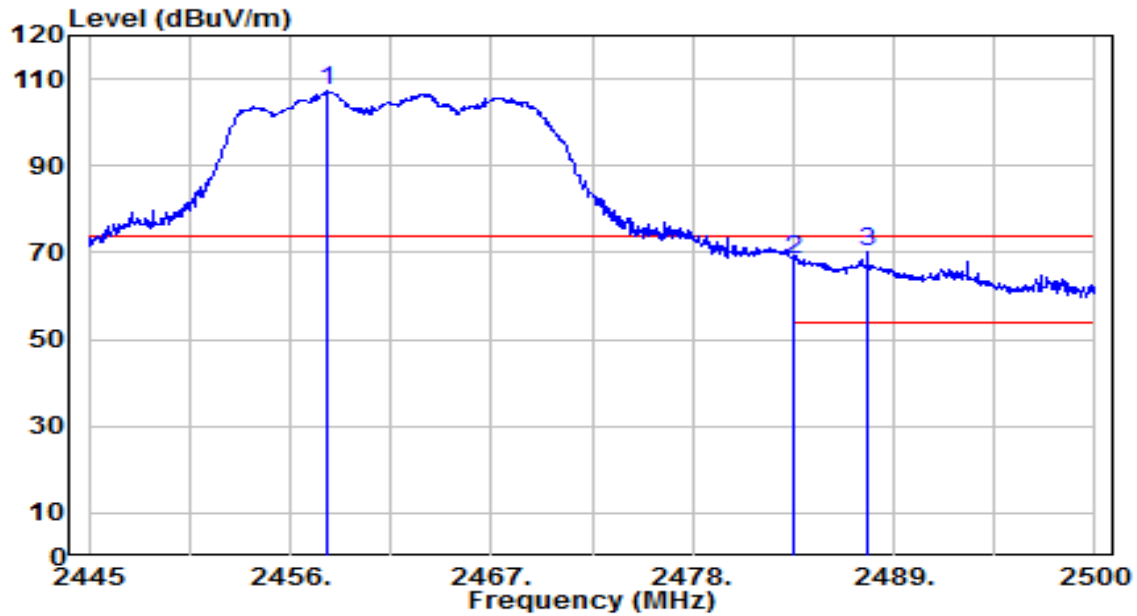


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2466.780	65.21	32.46	97.67	N/A	N/A	195	130	Average
2	* 2483.500	20.45	32.52	52.97	-1.03	54.00	195	130	Average
3	2484.710	19.66	32.52	52.19	-1.81	54.00	195	130	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

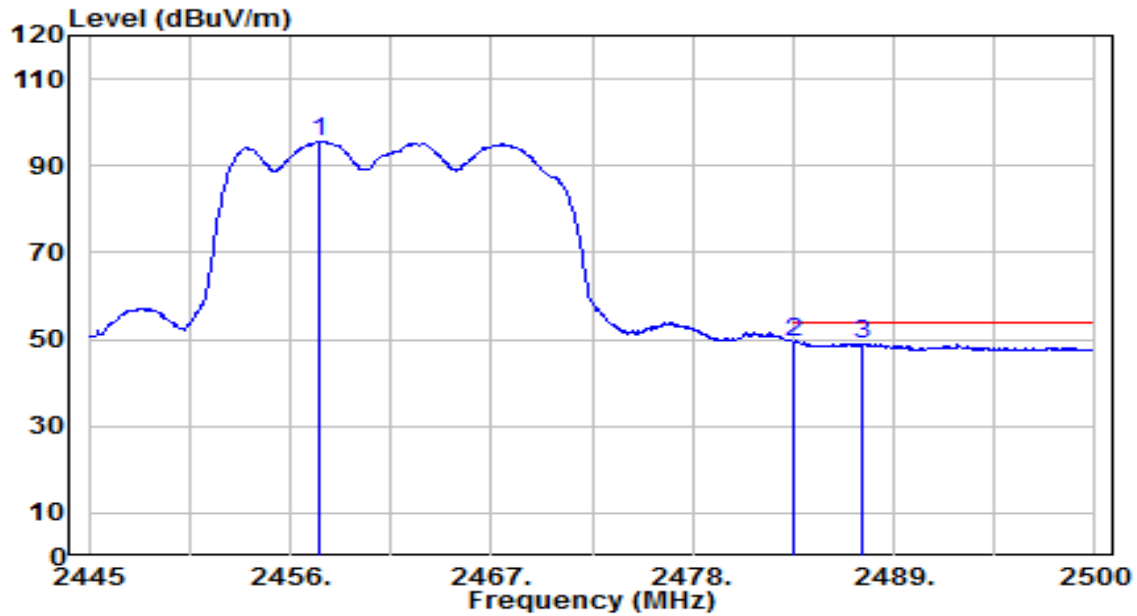


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2458.035	74.68	32.43	107.11	N/A	N/A	175	135	Peak
2	2483.500	36.06	32.52	68.58	-5.42	74.00	175	135	Peak
3	* 2487.570	37.87	32.54	70.41	-3.59	74.00	175	135	Peak

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

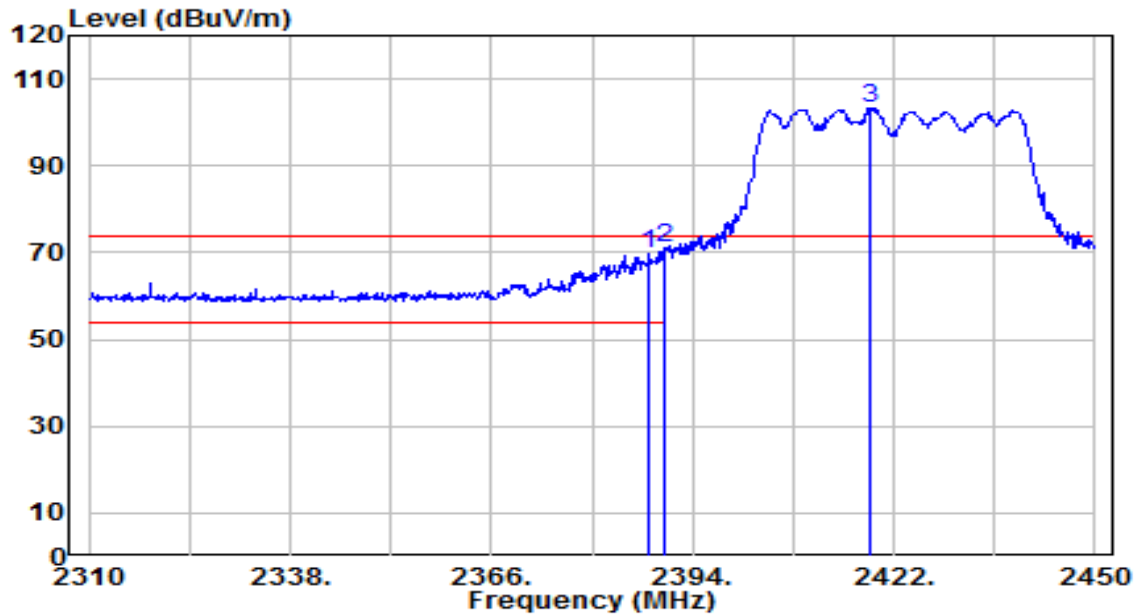


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2457.540	63.22	32.43	95.64	N/A	N/A	175	135	Average
2	* 2483.500	16.96	32.52	49.48	-4.52	54.00	175	135	Average
3	2487.240	16.50	32.53	49.04	-4.96	54.00	175	135	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0+1	Test Voltage	AC 120V/60Hz

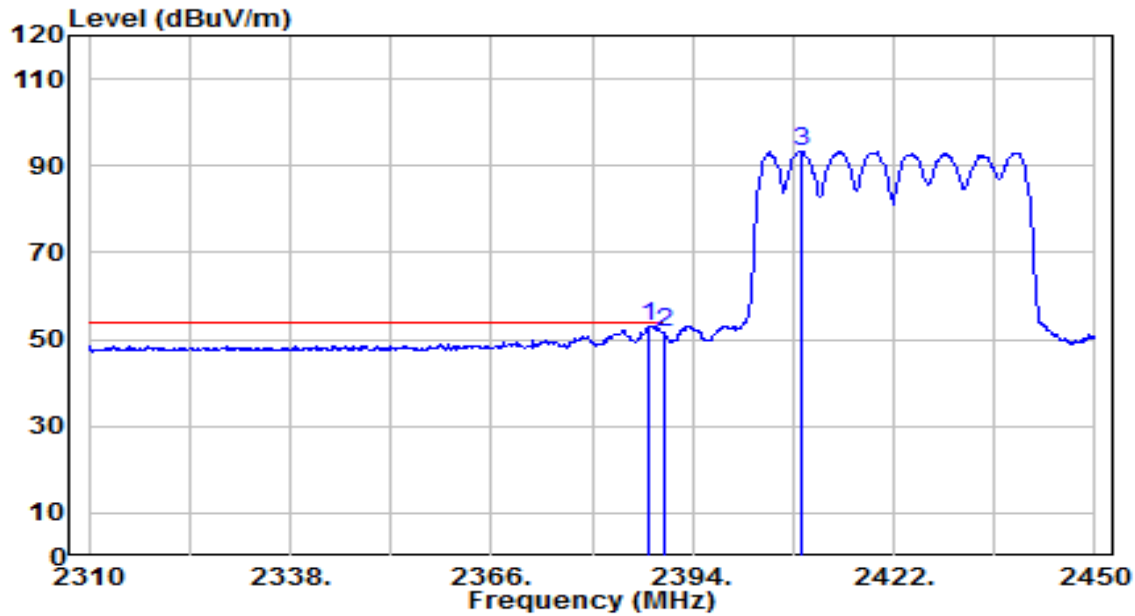


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2387.980	37.70	32.18	69.88	-4.12	74.00	155	195	Peak
2	* 2390.000	38.98	32.18	71.16	-2.84	74.00	155	195	Peak
3	2418.640	71.13	32.29	103.41	N/A	N/A	155	195	Peak

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0+1	Test Voltage	AC 120V/60Hz

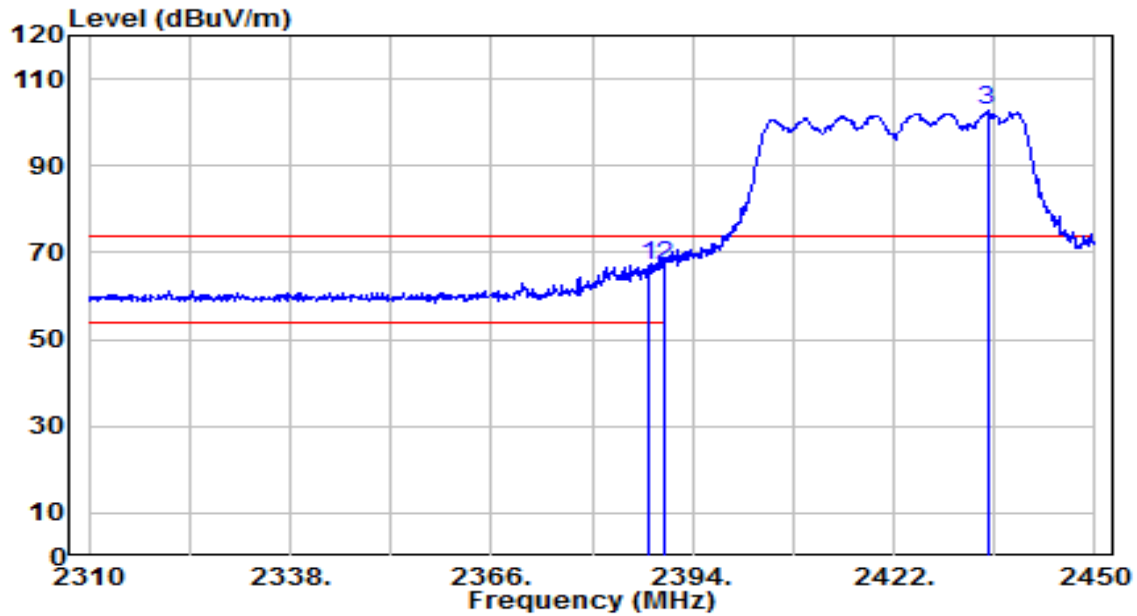


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2387.980	20.82	32.18	53.00	-1.00	54.00	155	195	Average
2		2390.000	19.23	32.18	51.42	-2.58	54.00	155	195	Average
3		2409.120	61.20	32.25	93.45	N/A	N/A	155	195	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0+1	Test Voltage	AC 120V/60Hz

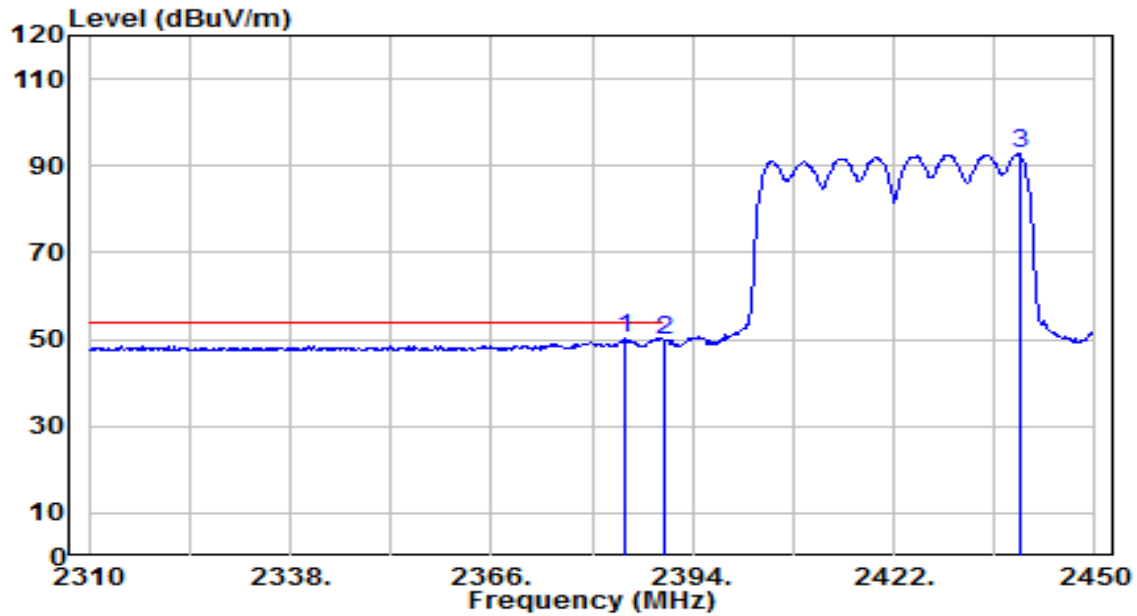


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2387.980	34.98	32.18	67.15	-6.85	74.00	215	175	Peak
2		2390.000	34.72	32.18	66.90	-7.10	74.00	215	175	Peak
3		2435.020	70.51	32.35	102.86	N/A	N/A	215	175	Peak

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0+1	Test Voltage	AC 120V/60Hz

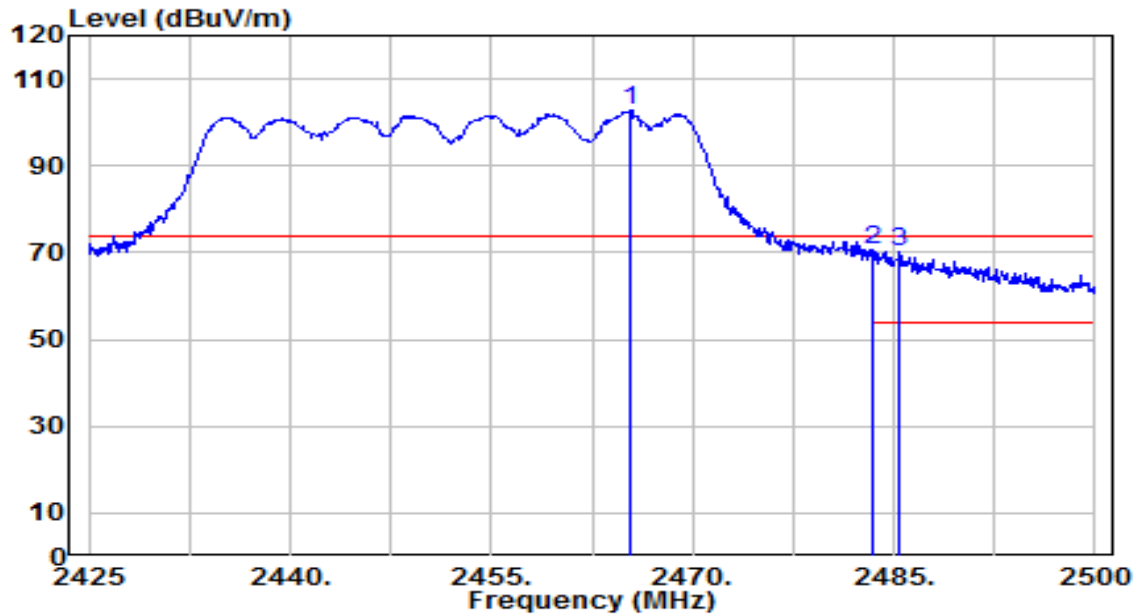


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2384.480	18.14	32.16	50.30	-3.70	54.00	215	175	Average
2		2390.000	17.70	32.18	49.89	-4.11	54.00	215	175	Average
3		2439.500	60.27	32.36	92.63	N/A	N/A	215	175	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 9_ANT 0+1	Test Voltage	AC 120V/60Hz

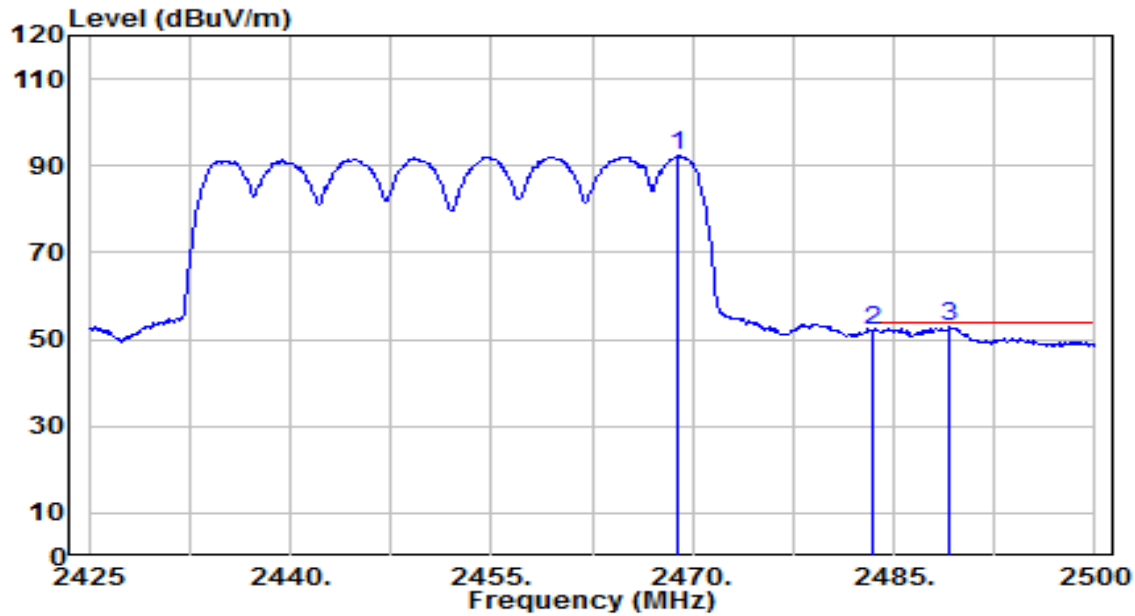


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2465.350	70.26	32.46	102.72	N/A	N/A	195	130	Peak
2	* 2483.500	38.31	32.52	70.83	-3.17	74.00	195	130	Peak
3	2485.450	37.75	32.53	70.28	-3.72	74.00	195	130	Peak

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 9_ANT 0+1	Test Voltage	AC 120V/60Hz

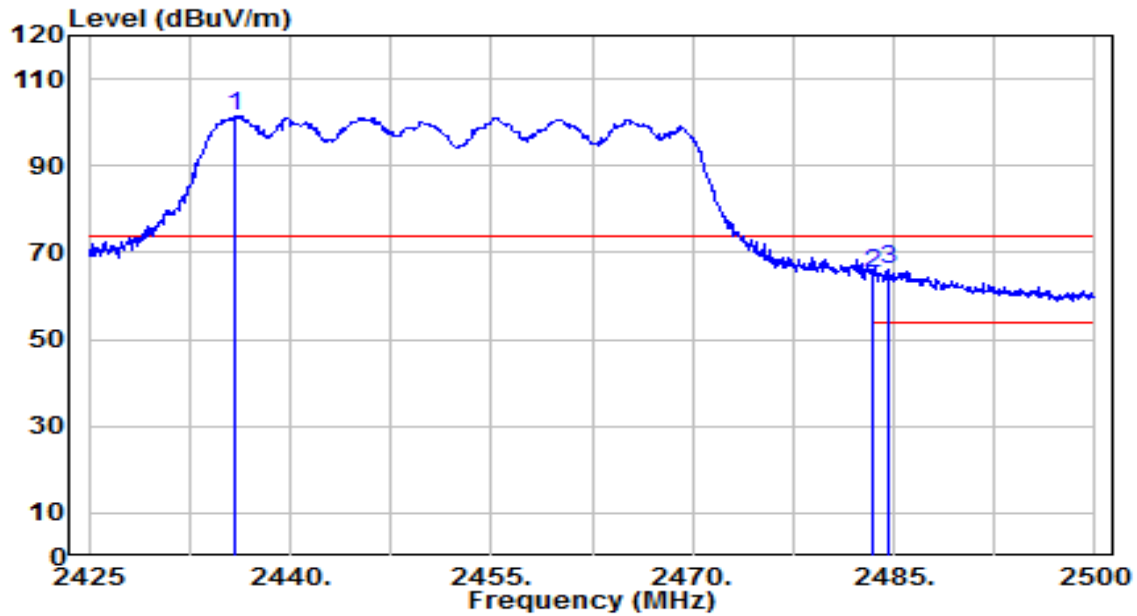


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2468.800	59.71	32.47	92.18	N/A	N/A	195	130	Average
2	2483.500	19.61	32.52	52.13	-1.87	54.00	195	130	Average
3	* 2489.125	20.38	32.54	52.92	-1.08	54.00	195	130	Average

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 9_ANT 0+1	Test Voltage	AC 120V/60Hz

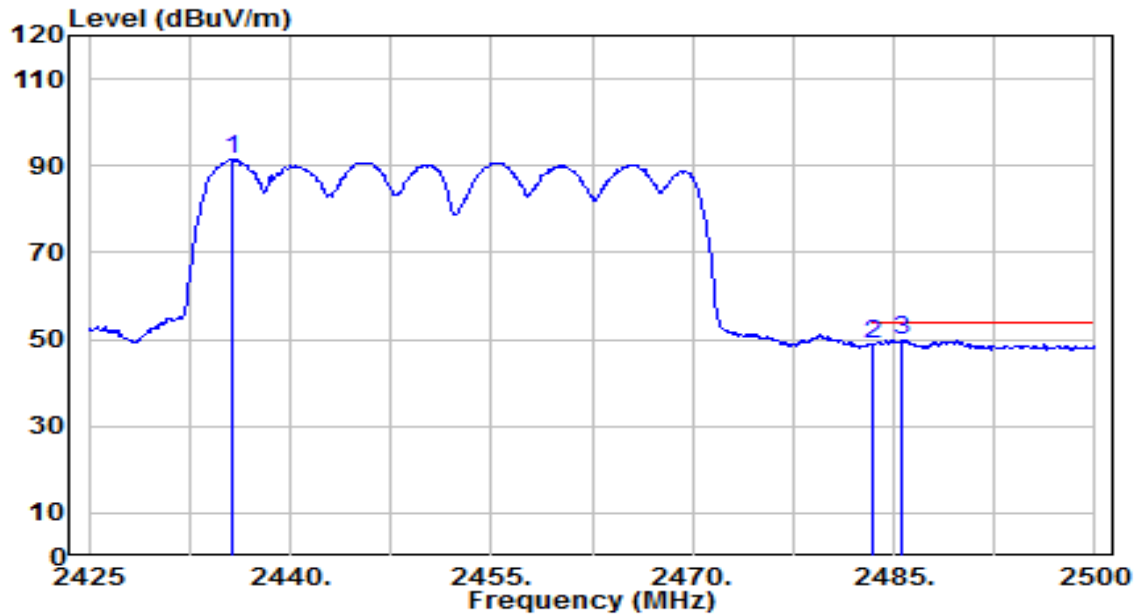


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2435.950	69.25	32.35	101.60	N/A	N/A	175	135	Peak
2	2483.500	32.82	32.52	65.34	-8.66	74.00	175	135	Peak
3	* 2484.700	33.62	32.52	66.14	-7.86	74.00	175	135	Peak

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	Intercom	Date of Test	2023-12-12
Factor	BBHA 9120D	Temp. / Humidity	23°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 9_ANT 0+1	Test Voltage	AC 120V/60Hz



No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2435.650	59.13	32.35	91.48	N/A	N/A	175	135	Average
2	2483.500	16.49	32.52	49.01	-4.99	54.00	175	135	Average
3	* 2485.675	17.45	32.53	49.98	-4.02	54.00	175	135	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

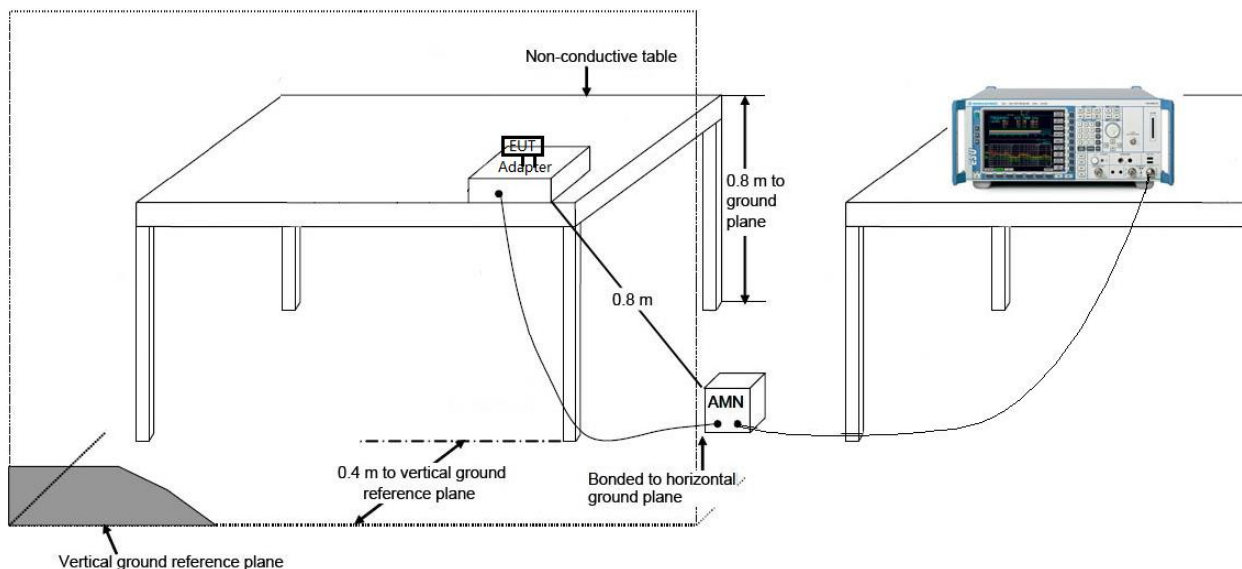
7.8.1. Test Limit

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.

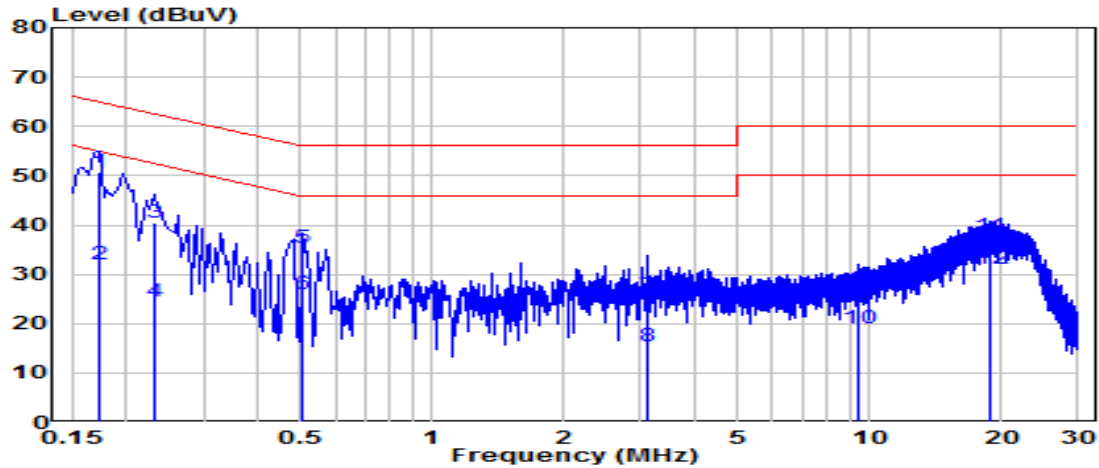
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



7.8.3. Test Result

EUT	Intercom	Date of Test	2023-12-06
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	22.2°C / 56%
Polarity	Line1	Site / Test Engineer	SR2 / Bob
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

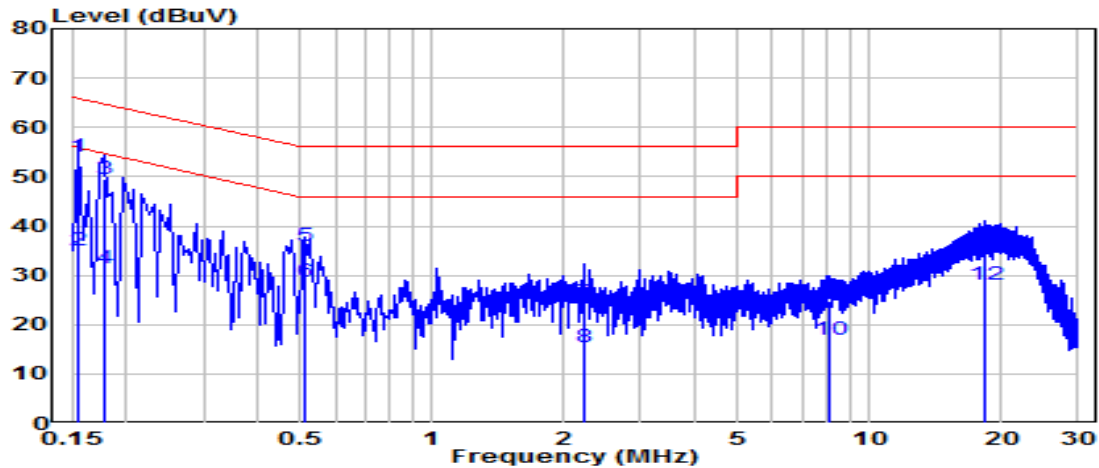


No		Frequency (MHz)	Reading (dBUV)	C.F (dB)	Measurement (dBUV)	Margin (dB)	Limit (dBUV)	Remark (QP/PK/AV)
1	*	0.172	41.24	9.62	50.86	-13.98	64.84	QP
2	*	0.172	22.53	9.62	32.15	-22.69	54.84	Average
3		0.231	30.70	9.62	40.33	-22.09	62.41	QP
4		0.231	14.81	9.62	24.43	-27.98	52.41	Average
5		0.505	25.59	9.64	35.23	-20.77	56.00	QP
6		0.505	16.19	9.64	25.83	-20.17	46.00	Average
7		3.111	16.01	9.71	25.72	-30.28	56.00	QP
8		3.111	5.55	9.71	15.26	-30.74	46.00	Average
9		9.451	16.93	9.85	26.77	-33.23	60.00	QP
10		9.451	9.18	9.85	19.03	-30.97	50.00	Average
11		18.895	27.81	9.92	37.73	-22.27	60.00	QP
12		18.895	21.27	9.92	31.19	-18.81	50.00	Average

Note:

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

EUT	Intercom	Date of Test	2023-12-06
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	22.2°C / 56%
Polarity	Neutral	Site / Test Engineer	SR2 / Bob
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

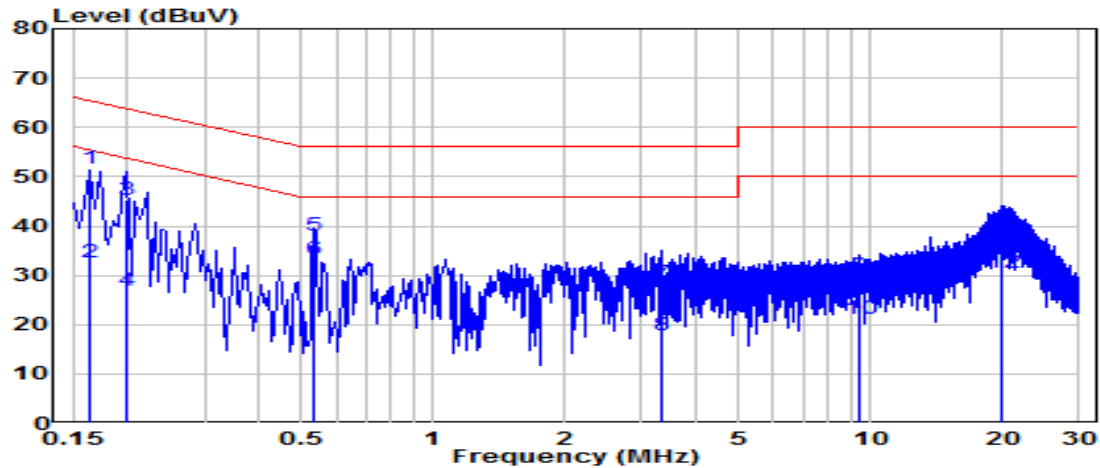


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	*	0.154	44.54	9.62	54.16	-11.59	65.75	QP
2	*	0.154	25.35	9.62	34.97	-20.78	55.75	Average
3		0.177	39.76	9.62	49.38	-15.24	64.63	QP
4		0.177	21.64	9.62	31.26	-23.36	54.63	Average
5		0.510	26.17	9.64	35.82	-20.18	56.00	QP
6		0.510	19.00	9.64	28.64	-17.36	46.00	Average
7		2.224	14.78	9.69	24.47	-31.53	56.00	QP
8		2.224	5.79	9.69	15.48	-30.52	46.00	Average
9		8.051	15.05	9.82	24.87	-35.13	60.00	QP
10		8.051	7.22	9.82	17.04	-32.96	50.00	Average
11		18.400	25.73	9.98	35.71	-24.29	60.00	QP
12		18.400	18.02	9.98	28.00	-22.00	50.00	Average

Note:

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

EUT	Intercom	Date of Test	2023-12-06
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	22.2°C /56%
Polarity	Line1	Site / Test Engineer	SR2 / Bob
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 240V/60Hz

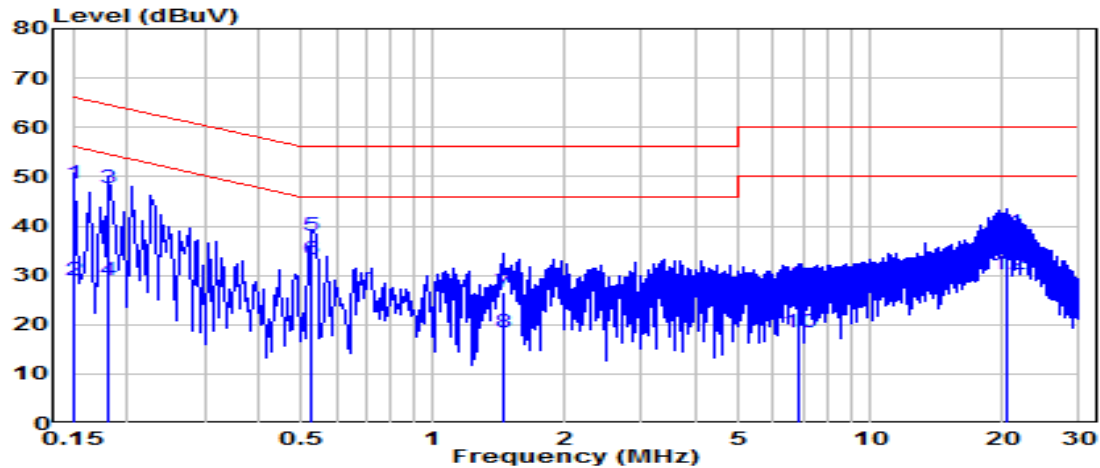


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.163	41.86	9.62	51.49	-13.80	65.28	QP
2	0.163	23.03	9.62	32.65	-22.64	55.28	Average
3	0.199	35.76	9.62	45.39	-18.25	63.63	QP
4	0.199	17.30	9.62	26.92	-26.71	53.63	Average
5	* 0.532	28.53	9.64	38.17	-17.83	56.00	QP
6	* 0.532	23.47	9.64	33.11	-12.89	46.00	Average
7	3.340	18.63	9.72	28.34	-27.66	56.00	QP
8	3.340	8.14	9.72	17.85	-28.15	46.00	Average
9	9.419	20.07	9.85	29.91	-30.09	60.00	QP
10	9.419	11.19	9.85	21.04	-28.96	50.00	Average
11	20.034	28.54	9.93	38.47	-21.53	60.00	QP
12	20.034	20.50	9.93	30.43	-19.57	50.00	Average

Note:

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

EUT	Intercom	Date of Test	2023-12-06
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	22.2°C /56%
Polarity	Neutral	Site / Test Engineer	SR2 / Bob
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 240V/60Hz



No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.150	39.06	9.62	48.68	-17.32	66.00	QP
2	0.150	19.35	9.62	28.97	-27.03	56.00	Average
3	0.181	38.18	9.62	47.80	-16.61	64.42	QP
4	0.181	19.42	9.62	29.04	-25.38	54.42	Average
5	* 0.528	28.44	9.64	38.09	-17.91	56.00	QP
6	* 0.528	23.60	9.64	33.24	-12.76	46.00	Average
7	1.441	16.76	9.68	26.44	-29.56	56.00	QP
8	1.441	8.66	9.68	18.34	-27.66	46.00	Average
9	6.850	18.23	9.79	28.02	-31.98	60.00	QP
10	6.850	8.60	9.79	18.40	-31.60	50.00	Average
11	20.425	28.65	10.00	38.65	-21.35	60.00	QP
12	20.425	20.20	10.00	30.21	-19.79	50.00	Average

Note:

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

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Intercom**, is in compliance with Part 15C & RSS-247 of the FCC & IC Rules.

Appendix A : Test Photograph

Refer to “2312TWN801 -UT” file.

Appendix B : External Photograph

Refer to “2312TWN801 -UE” file.

Appendix C : Internal Photograph

Refer to “2312TWN801 -UI” file.

————— The End —————