



MEASUREMENT REPORT (C2PC for FCC, C2PC for ISED)

FCC ID : XBG-BA1GMNRCH8
IC : 21285-BA1GMNRCH8
Applicant : AVALUE TECHNOLOGY INCORPORATION
Application Type : Certification
Product : Intercom
Model Name : Monarch 8
Model No. : BUTTERFLYMX.M8.1
Trade Mark : 
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 5, 2023
Test Date : December 6, 2023~ December 13, 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
2401TWN801-U4	1.0	Original Report	2024-02-19	

Note:

1. The original report was FCC: 2209TWI301-U13 and IC: 2209TWI301-C13 (Monarch 8 (ButterflyMX.M8.1). This time, the Power Adapter was added and the WLAN (BT/BLE & Wi-Fi 2.4G/5G) Antenna was changed, so the FCC C2PC & ISED C2PC (Conducted Output Power, Spurious Emission & Band Edge, Conduction) is executed.
2. FCC Original Report Grant Date: 01/09/2023, FCC ID: XBG-BA1GMNRCH8.
3. ISED Original Report Grant Date: 01/22/2023, IC: 21285-BA1GMNRCH8.

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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.

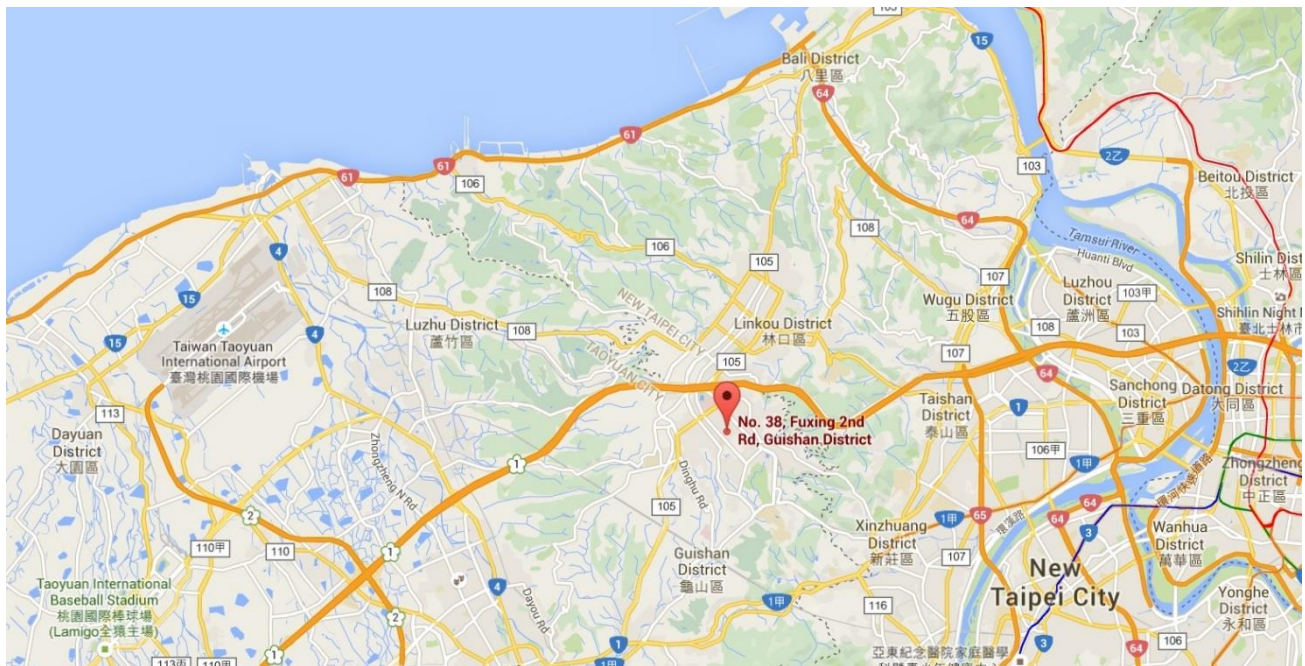
1. INTRODUCTION

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 8
Model No.	BUTTERFLYMX.M8.1
Trade Mark	
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
Accessories	
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

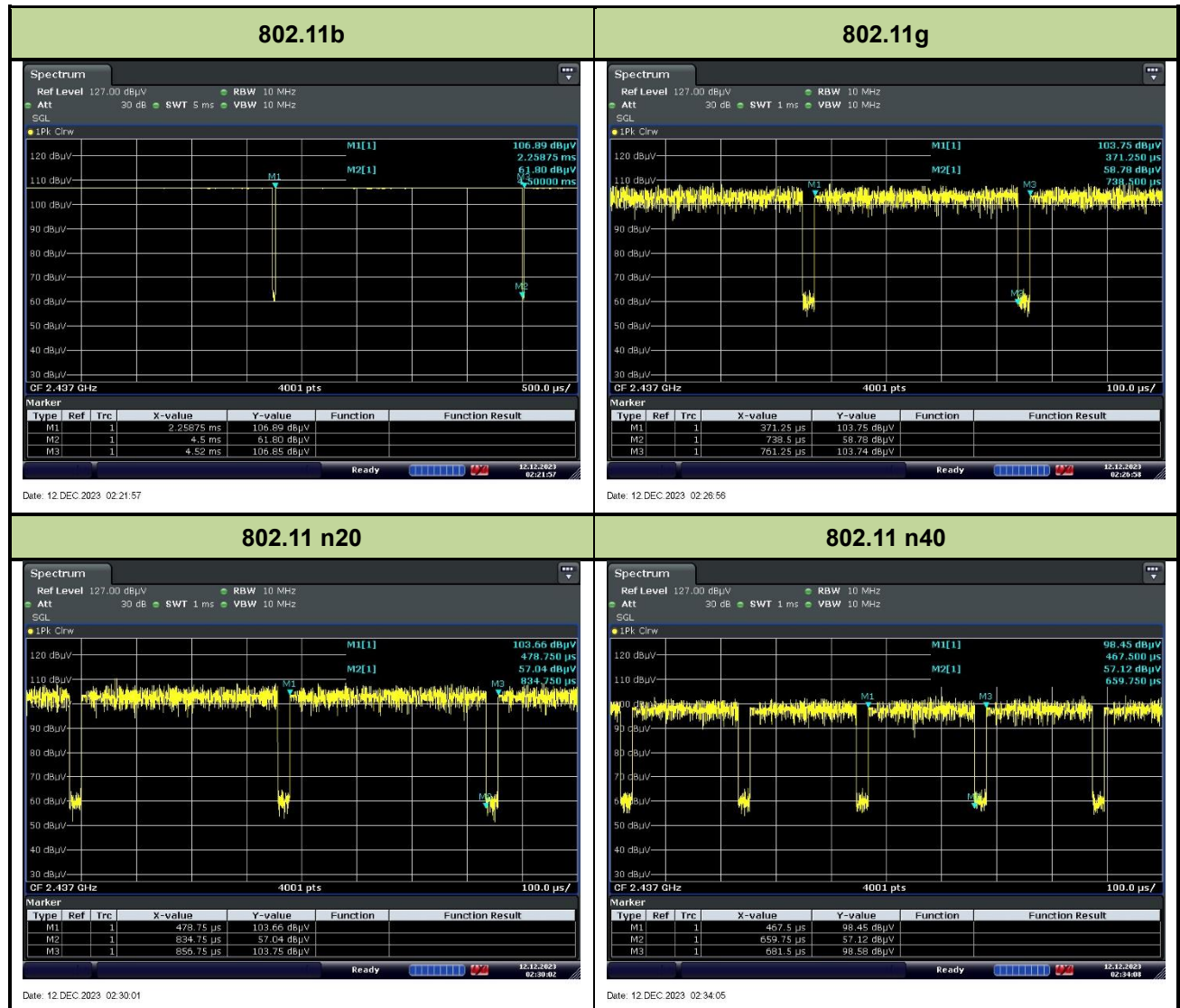
Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz	--	--

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-01-314 and WA-P-LB-02-995	PCB	2.30	Ant 0: 2.30 Ant 1: 1.52	Ant 0_B1: 6.77 Ant 1_B1: 6.33 Ant 0_B4: 8.52 Ant 1_B4: 7.02

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	RFSPIN	DRH18-E	MRTTWA00087	1 year	2024/5/17
Broadband Preamplifier	EMC Instruments corporation	EMC118A45SE	MRTTWA00088	1 year	2024/5/17
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	FSVA3044	MRTTWA00092	1 year	2024/6/29
Antenna Cable	HUBERSUHNER	SF106	MRTTWE00034	1 year	2024/6/26
Cable	HUBERSUHNER	EMC105-NM-NM-3000	MRTTWE00035	1 year	2024/6/26

Conducted Test Equipment – SR6

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2024/10/17
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2024/7/19
USB Wideband Power Sensor	KEYSIGHT	U2021XA	MRTTWA00015	1 year	2024/3/16

Test Software

Software	Version	Function
e3	9.160520a	EMI Test Software
EMI	V3	EMI Test Software

6. MEASUREMENT UNCERTAINTY

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

Conducted Emission- Power Line
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 0.15MHz~30MHz: $\pm 2.53\text{dB}$
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	$\leq 8.00\text{dBm}/3\text{kHz}$		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) All modes of operation and data rates were investigated. 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.

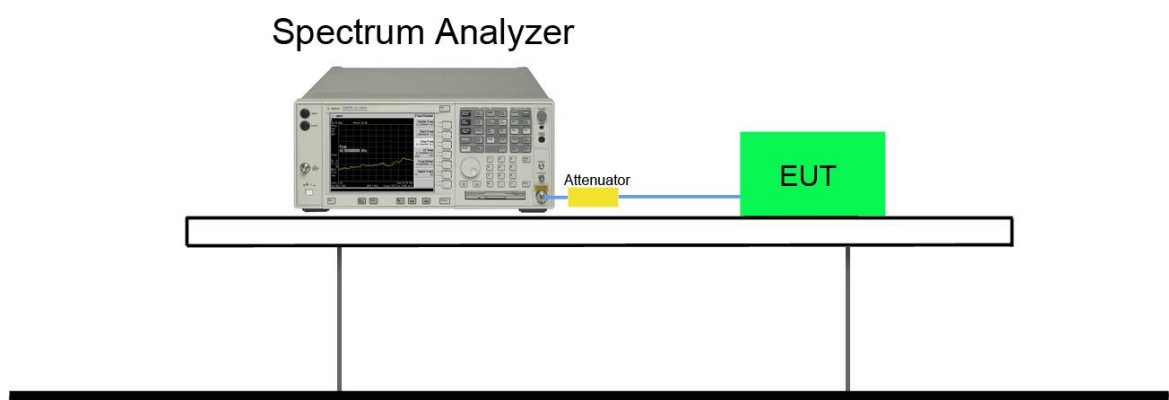
7.2.2. Test Procedure used

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-BA1GMNRCH8.

Note 2: Reference Original Report Grant Date: 01/22/2023, IC: 21285-BA1GMNRCH8.

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

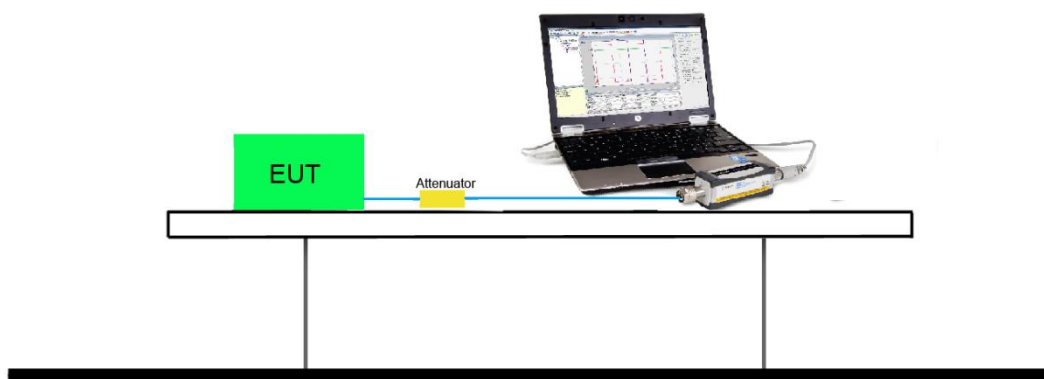
Peak Power Measurement

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	15.84	15.58	18.72	30.00
	1M	6	2437	14.86	14.38	17.64	30.00
	1M	11	2462	12.79	12.27	15.55	30.00
802.11g	6M	1	2412	25.34	25.15	28.26	30.00
	6M	6	2437	25.67	25.37	28.53	30.00
	6M	11	2462	25.99	25.06	28.56	30.00
802.11n- HT20	MCS0	1	2412	24.09	23.92	27.02	30.00
	MCS0	6	2437	25.98	25.87	28.94	30.00
	MCS0	11	2462	25.11	24.78	27.96	30.00
802.11n- HT40	MCS0	3	2422	21.17	20.78	23.99	30.00
	MCS0	6	2437	23.26	22.99	26.14	30.00
	MCS0	9	2452	23.20	22.96	26.09	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	13.44	13.11	16.29	30.00
	1M	6	2437	12.44	11.95	15.21	30.00
	1M	11	2462	10.30	9.86	13.10	30.00
802.11g	6M	1	2412	16.27	16.77	19.54	30.00
	6M	6	2437	16.31	16.00	19.17	30.00
	6M	11	2462	16.18	15.81	19.01	30.00
802.11n- HT20	MCS0	1	2412	14.30	14.35	17.34	30.00
	MCS0	6	2437	16.38	15.92	19.17	30.00
	MCS0	11	2462	15.18	14.97	18.09	30.00
802.11n- HT40	MCS0	3	2422	12.01	11.90	14.97	30.00
	MCS0	6	2437	14.03	13.60	16.83	30.00
	MCS0	9	2452	14.32	13.52	16.95	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

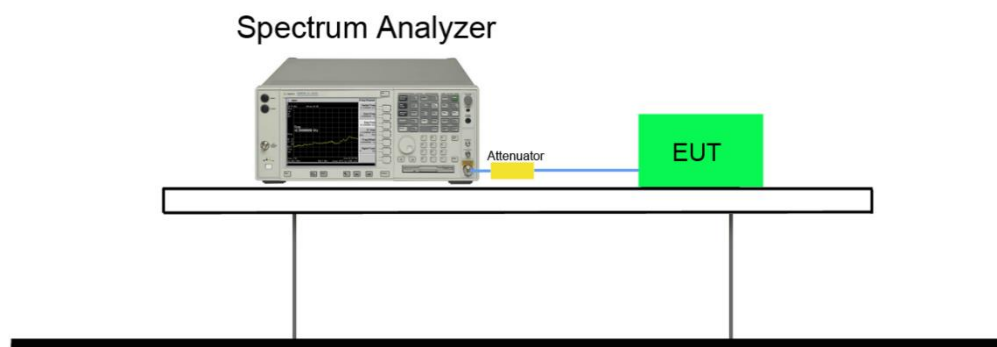
ANSI C63.10-2013 Section 11.10.5

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-BA1GMNRCH8.

Note 2: Reference Original Report Grant Date: 01/22/2023, IC: 21285-BA1GMNRCH8.

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.

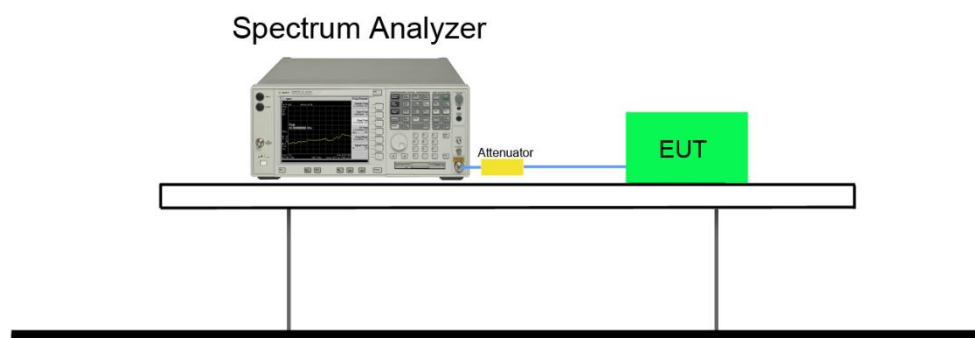
7.5.2. Test Procedure Used

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-BA1GMNRCH8.

Note 2: Reference Original Report Grant Date: 01/22/2023, IC: 21285-BA1GMNRCH8.

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

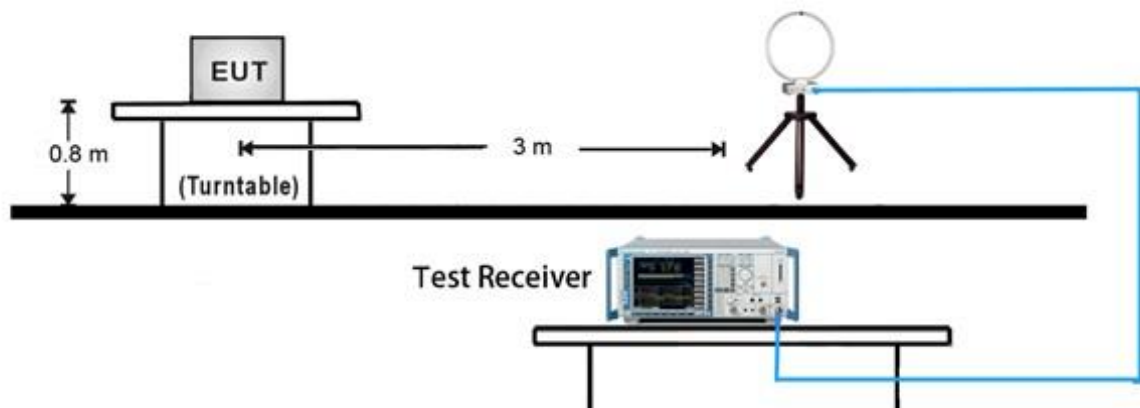
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

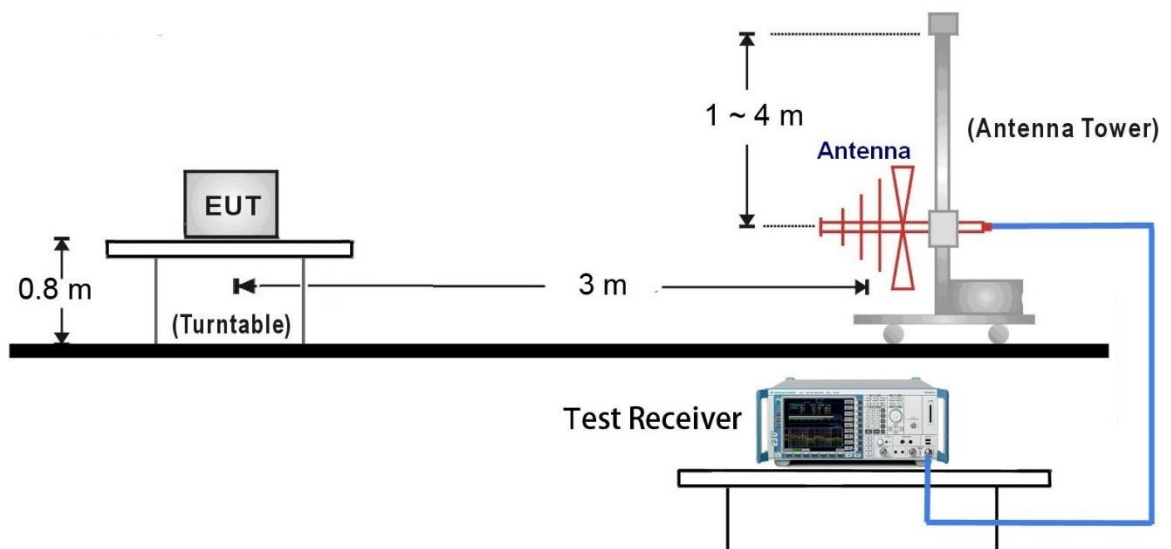
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq 1/T$
4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain).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

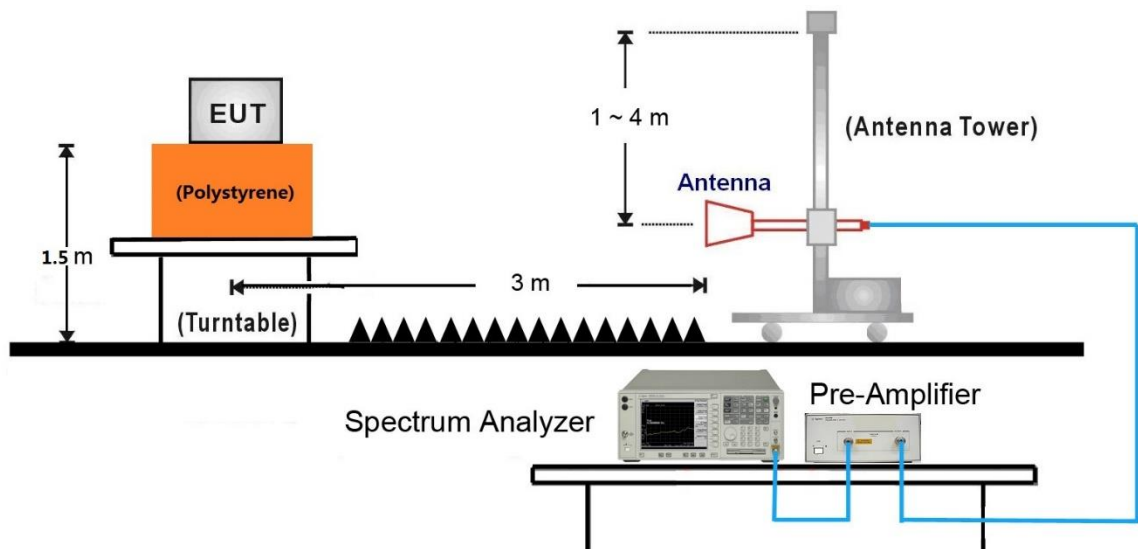
9kHz ~ 30MHz Test Setup:



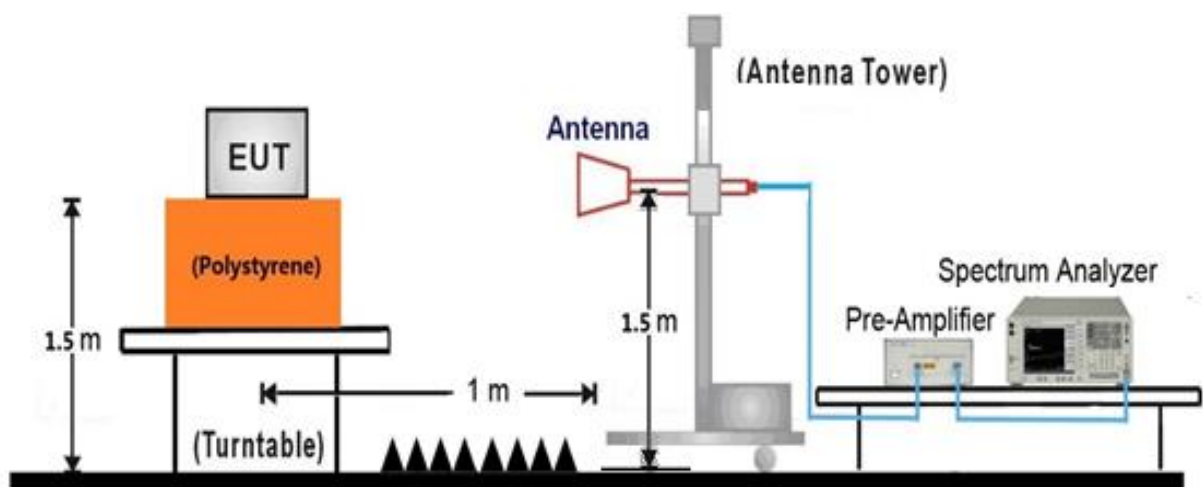
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:

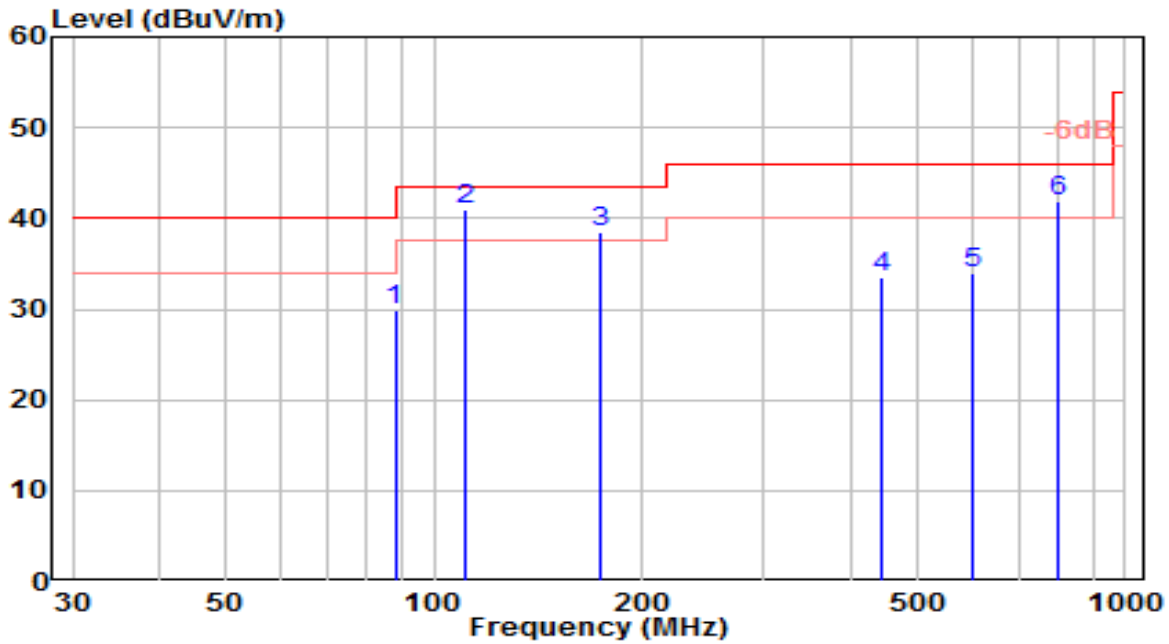


18GHz ~25GHz Test Setup:



7.6.5. Test Result

EUT	Intercom 8"	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

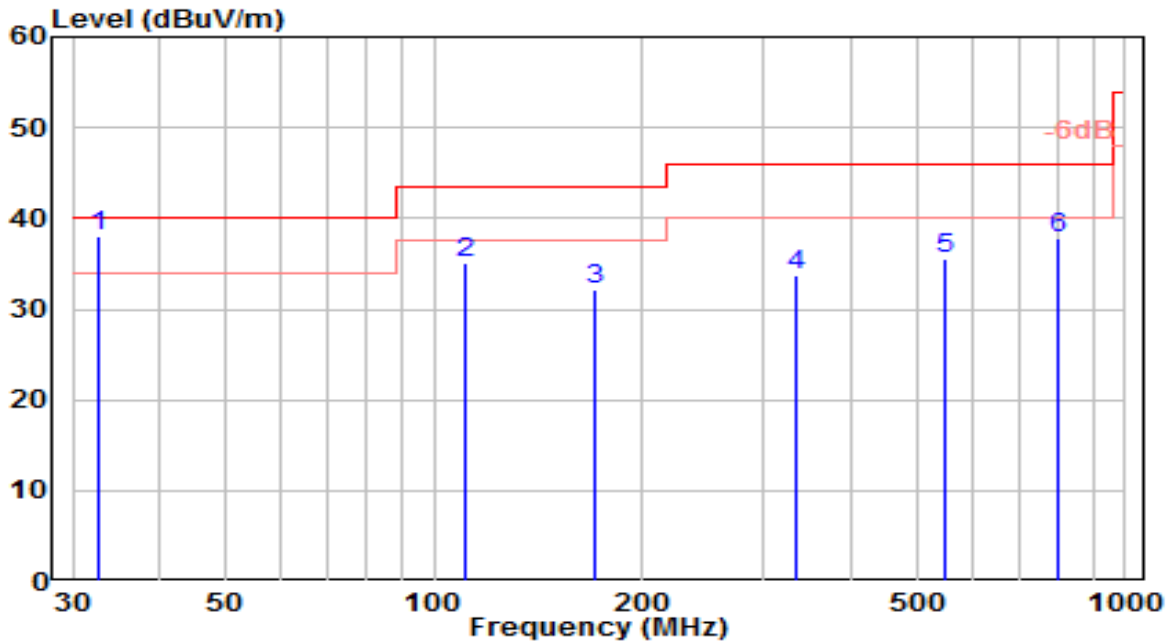


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	87.785	13.56	16.27	29.84	-10.16	40.00	150	250	QP
2	* 111.356	22.79	18.21	41.00	-2.50	43.50	150	60	QP
3	174.262	22.24	16.28	38.52	-4.98	43.50	150	60	QP
4	444.294	9.46	24.14	33.60	-12.40	46.00	150	150	QP
5	602.395	6.42	27.61	34.03	-11.97	46.00	150	120	QP
6	798.654	11.85	30.09	41.94	-4.06	46.00	100	180	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 8"	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

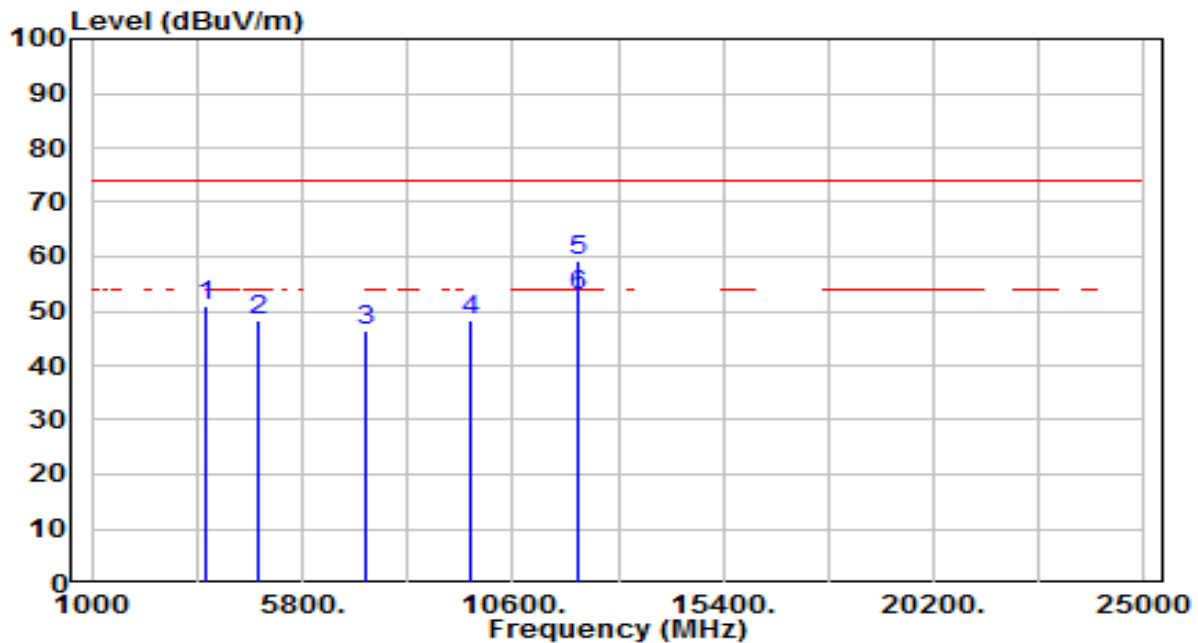


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	32.822	20.80	17.28	38.07	-1.93	40.00	100	250	QP
2		111.261	16.96	18.22	35.18	-8.32	43.50	100	340	QP
3		171.116	16.15	16.11	32.26	-11.24	43.50	100	20	QP
4		332.952	11.54	22.27	33.81	-12.19	46.00	150	190	QP
5		547.312	9.45	26.17	35.63	-10.37	46.00	100	270	QP
6		799.182	7.63	30.09	37.72	-8.28	46.00	100	230	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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

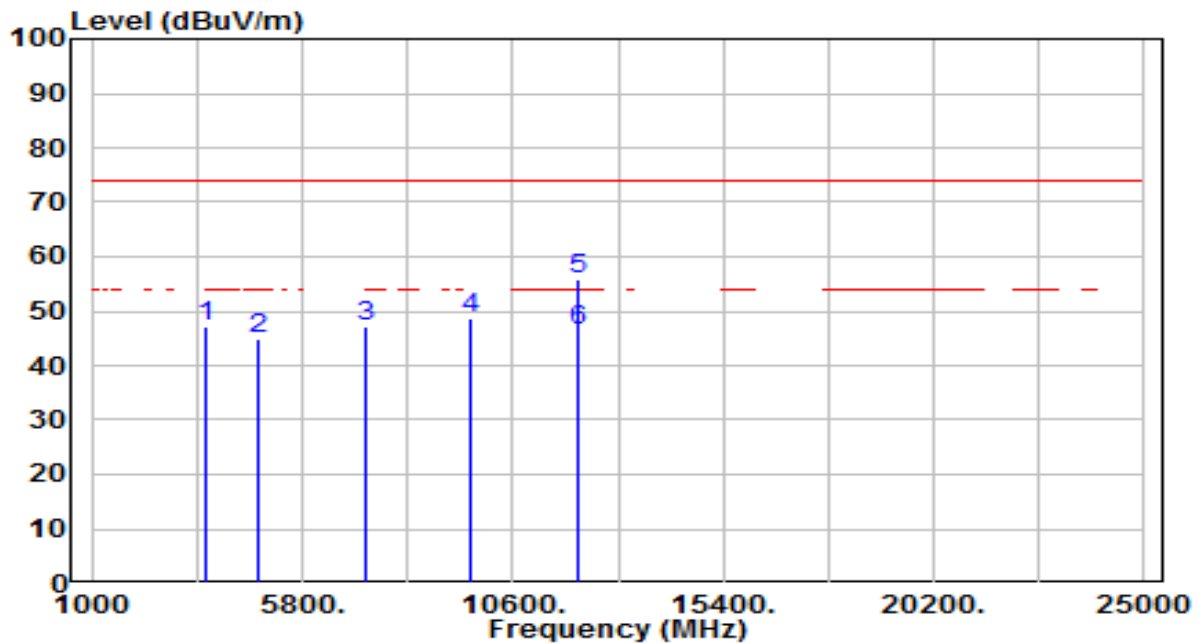


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3617.469	50.74	0.20	50.94	-23.06	74.00	200	180	Peak
2	4824.000	44.20	3.91	48.11	-25.89	74.00	200	200	Peak
3	7236.000	34.62	11.94	46.55	-27.45	74.00	200	112	Peak
4	9648.000	32.44	15.79	48.24	-25.76	74.00	200	64	Peak
5	* 12060.000	40.40	18.96	59.36	-14.64	74.00	218	130	Peak
6	* 12060.000	33.91	18.96	52.87	-1.13	54.00	218	130	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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

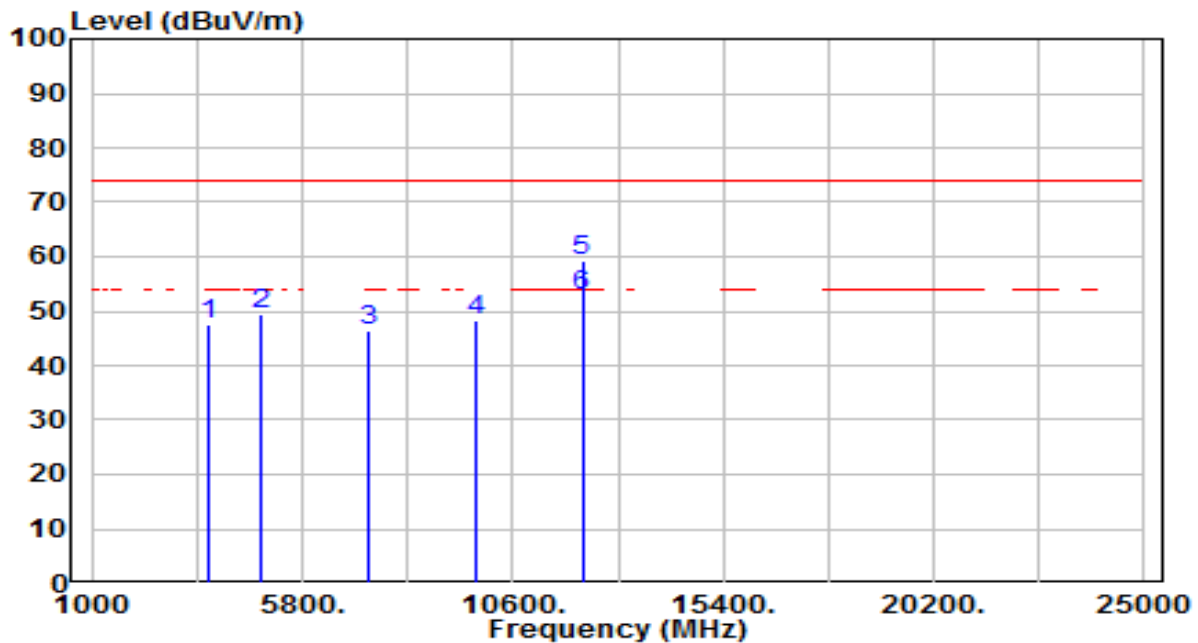


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3618.531	47.10	0.20	47.30	-26.70	74.00	200	168	Peak
2	4824.000	41.18	3.91	45.09	-28.91	74.00	200	360	Peak
3	7236.000	35.21	11.94	47.15	-26.85	74.00	200	221	Peak
4	9648.000	32.93	15.79	48.73	-25.27	74.00	200	50	Peak
5	* 12060.000	36.90	18.96	55.86	-18.14	74.00	198	223	Peak
6	* 12060.000	27.30	18.96	46.26	-7.74	54.00	198	223	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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

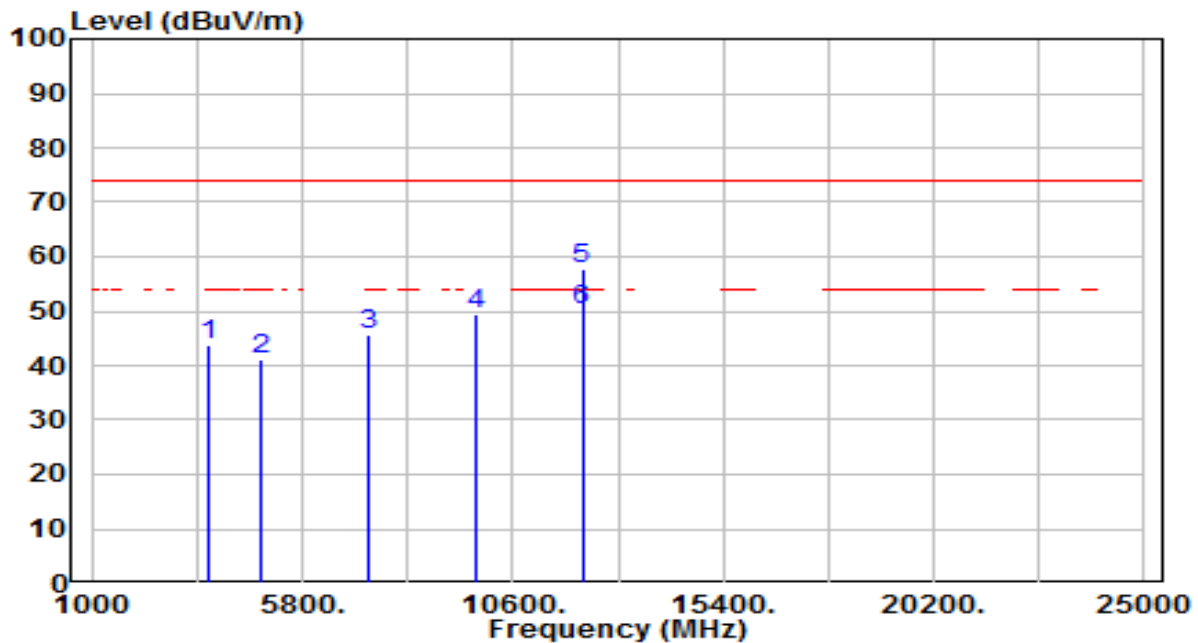


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3655.188	47.15	0.30	47.45	-26.55	74.00	200	223	Peak
2	4874.000	45.26	4.02	49.28	-24.72	74.00	200	208	Peak
3	7311.000	34.22	12.20	46.42	-27.58	74.00	200	238	Peak
4	9748.000	32.26	16.01	48.27	-25.73	74.00	200	194	Peak
5	* 12185.000	40.40	18.86	59.26	-14.74	74.00	208	118	Peak
6	* 12185.000	34.10	18.86	52.96	-1.04	54.00	208	118	Average

Note:

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

EUT	Intercom 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

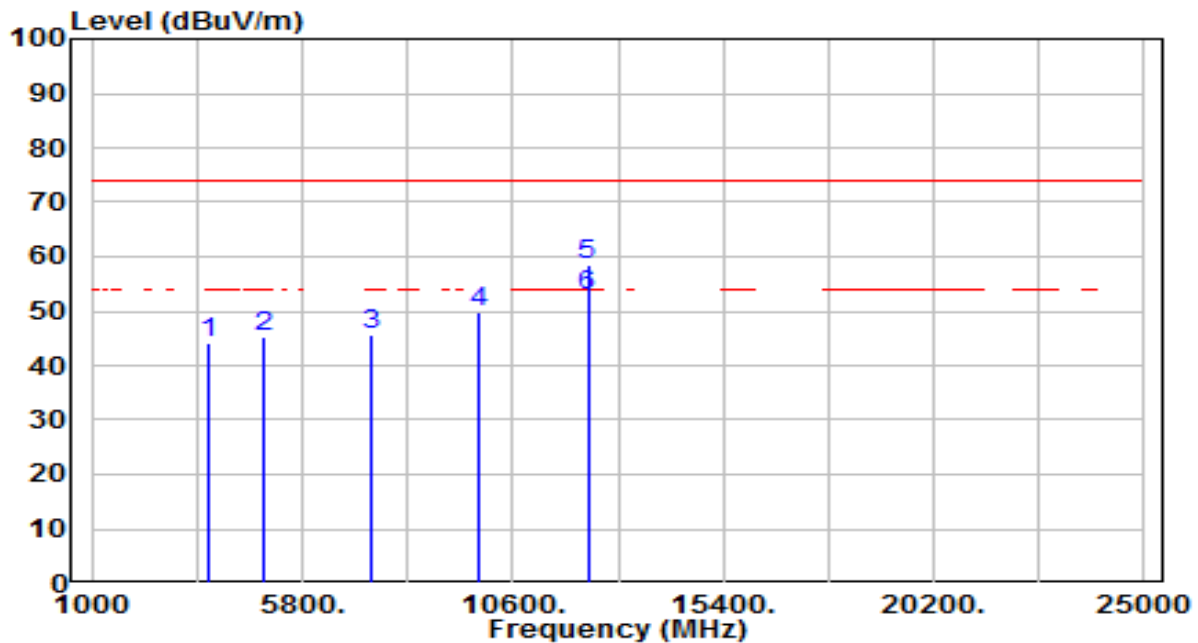


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3655.719	43.31	0.30	43.60	-30.40	74.00	200	193	Peak
2	4874.000	37.22	4.02	41.24	-32.76	74.00	200	360	Peak
3	7311.000	33.48	12.20	45.68	-28.32	74.00	200	211	Peak
4	9748.000	33.34	16.01	49.35	-24.65	74.00	200	233	Peak
5	* 12185.000	38.89	18.86	57.75	-16.25	74.00	146	143	Peak
6	* 12185.000	31.20	18.86	50.06	-3.94	54.00	146	143	Average

Note:

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

EUT	Intercom 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

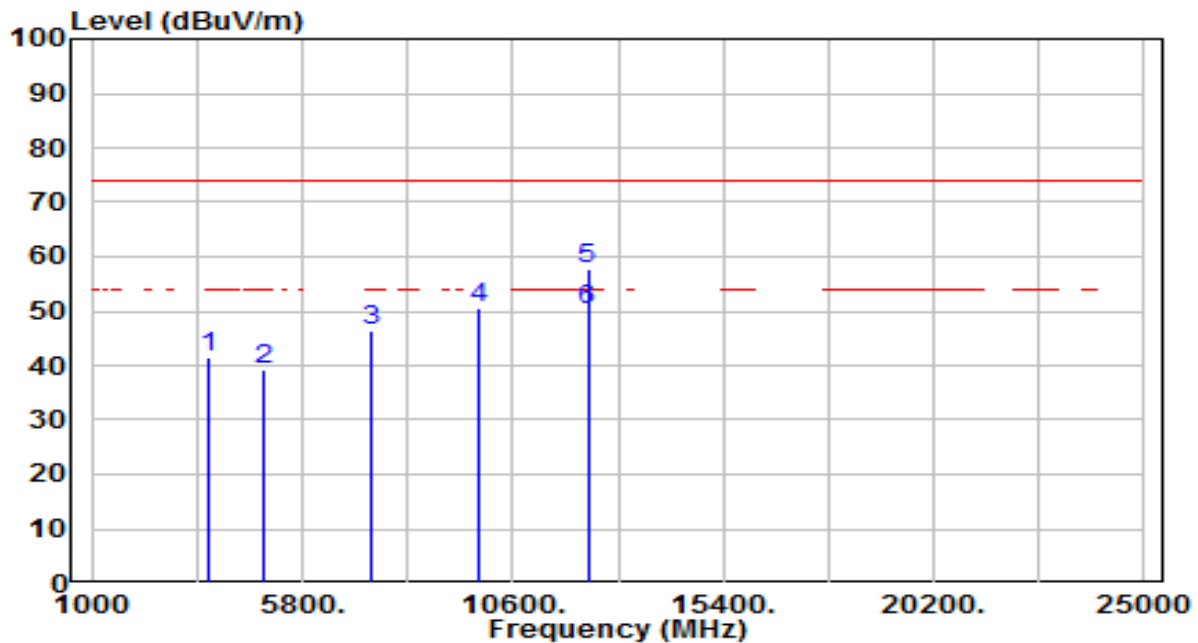


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3692.906	43.60	0.40	44.00	-30.00	74.00	200	173	Peak
2	4924.000	41.09	4.13	45.22	-28.78	74.00	200	173	Peak
3	7386.000	33.34	12.46	45.81	-28.19	74.00	200	24	Peak
4	9848.000	33.76	16.23	49.99	-24.01	74.00	200	155	Peak
5 *	12310.000	39.90	18.75	58.65	-15.35	74.00	220	116	Peak
6 *	12310.000	33.90	18.75	52.65	-1.35	54.00	220	116	Average

Note:

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

EUT	Intercom 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

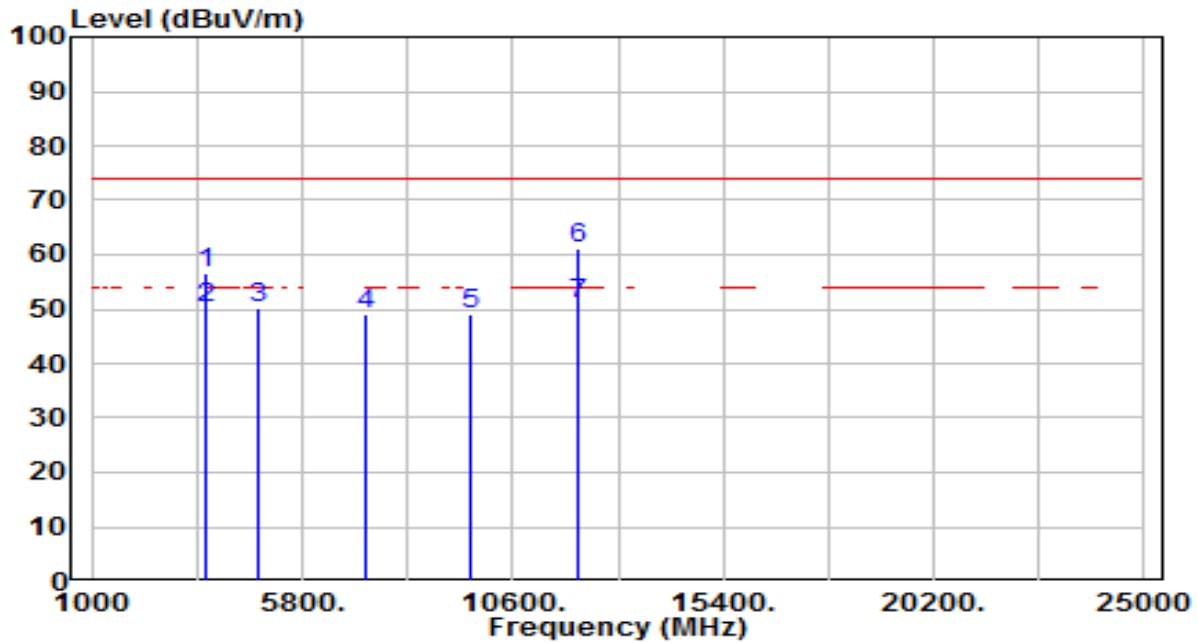


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3692.375	41.03	0.39	41.43	-32.57	74.00	200	191	Peak
2	4924.000	35.02	4.13	39.15	-34.85	74.00	200	360	Peak
3	7386.000	34.12	12.46	46.59	-27.41	74.00	200	191	Peak
4	9848.000	34.28	16.23	50.50	-23.50	74.00	200	347	Peak
5	* 12310.000	38.80	18.75	57.55	-16.45	74.00	162	148	Peak
6	* 12310.000	31.60	18.75	50.35	-3.65	54.00	162	148	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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

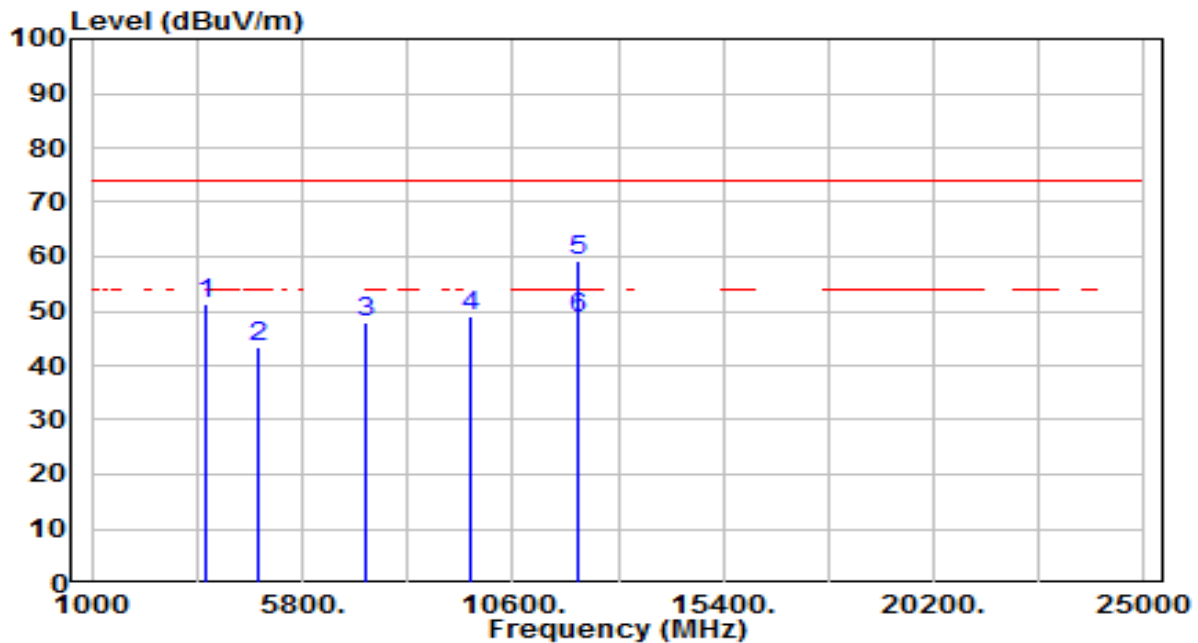


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3615.875	56.55	0.19	56.74	-17.26	74.00	186	184	Peak
2	3615.875	49.87	0.19	50.06	-3.94	54.00	186	184	Average
3	4824.000	46.18	3.91	50.10	-23.90	74.00	200	178	Peak
4	7236.000	37.12	11.94	49.06	-24.94	74.00	200	160	Peak
5	9648.000	33.16	15.79	48.96	-25.04	74.00	200	232	Peak
6	* 12060.000	42.10	18.96	61.06	-12.94	74.00	189	110	Peak
7	* 12060.000	31.95	18.96	50.91	-3.09	54.00	189	110	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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

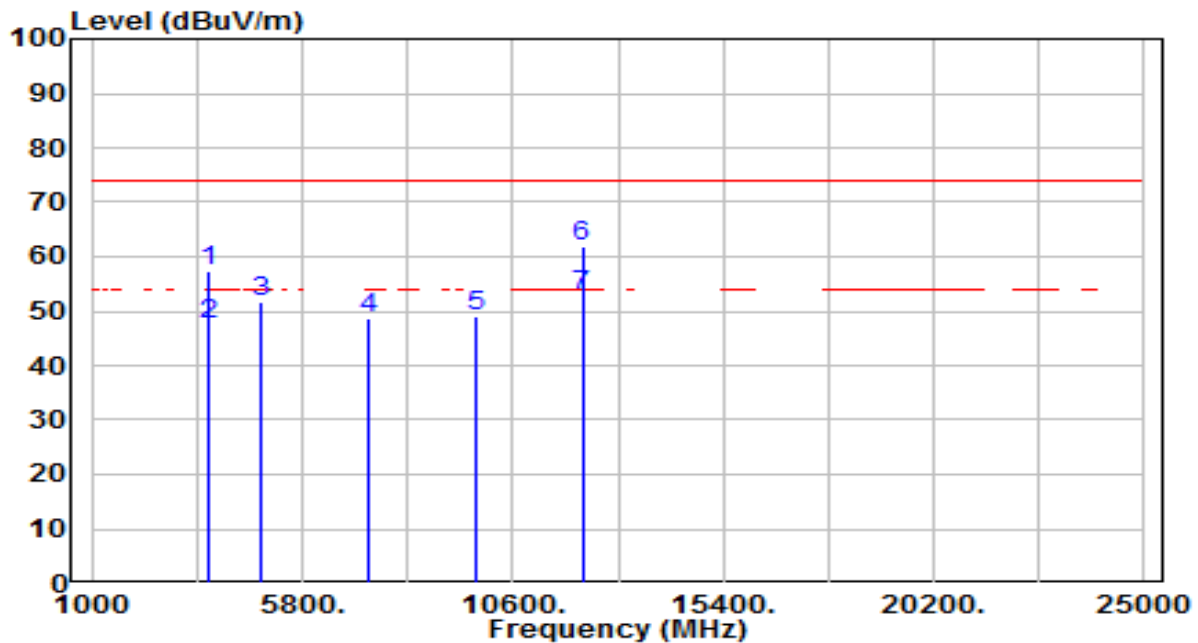


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3610.031	51.22	0.18	51.40	-22.60	74.00	200	171	Peak
2	4824.000	39.31	3.91	43.22	-30.78	74.00	200	360	Peak
3	7236.000	35.94	11.94	47.88	-26.12	74.00	200	214	Peak
4	9648.000	33.21	15.79	49.00	-25.00	74.00	200	182	Peak
5	* 12060.000	40.33	18.96	59.29	-14.71	74.00	204	224	Peak
6	* 12060.000	29.87	18.96	48.83	-5.17	54.00	204	224	Average

Note:

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

EUT	Intercom 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

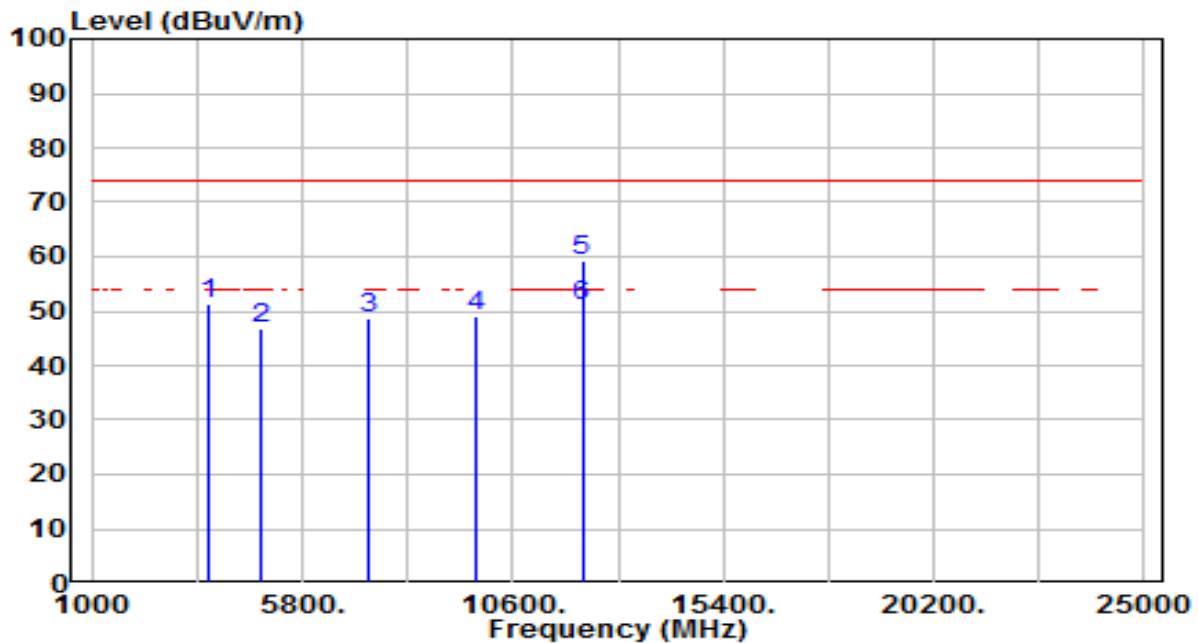


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3652.531	57.07	0.29	57.36	-16.64	74.00	200	178	Peak
2	3652.531	47.32	0.29	47.61	-6.39	54.00	200	178	Average
3	4874.000	47.74	4.02	51.76	-22.24	74.00	200	210	Peak
4	7311.000	36.40	12.20	48.60	-25.40	74.00	200	185	Peak
5	9748.000	33.03	16.01	49.05	-24.95	74.00	200	297	Peak
6	* 12185.000	43.16	18.86	62.02	-11.98	74.00	211	122	Peak
7	* 12185.000	33.95	18.86	52.81	-1.19	54.00	211	122	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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

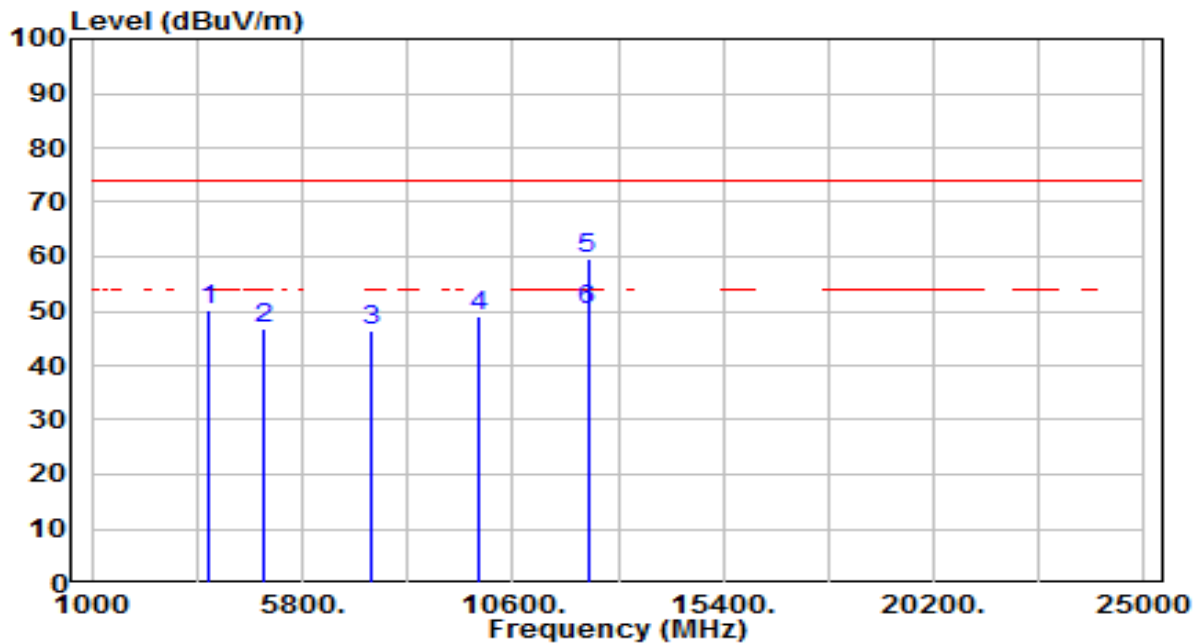


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3651.469	51.20	0.29	51.49	-22.51	74.00	200	186	Peak
2	4874.000	42.62	4.02	46.64	-27.36	74.00	200	360	Peak
3	7311.000	36.55	12.20	48.75	-25.25	74.00	200	204	Peak
4	9748.000	33.09	16.01	49.10	-24.90	74.00	200	132	Peak
5	* 12185.000	40.21	18.86	59.07	-14.93	74.00	143	146	Peak
6	* 12185.000	31.90	18.86	50.76	-3.24	54.00	143	146	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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

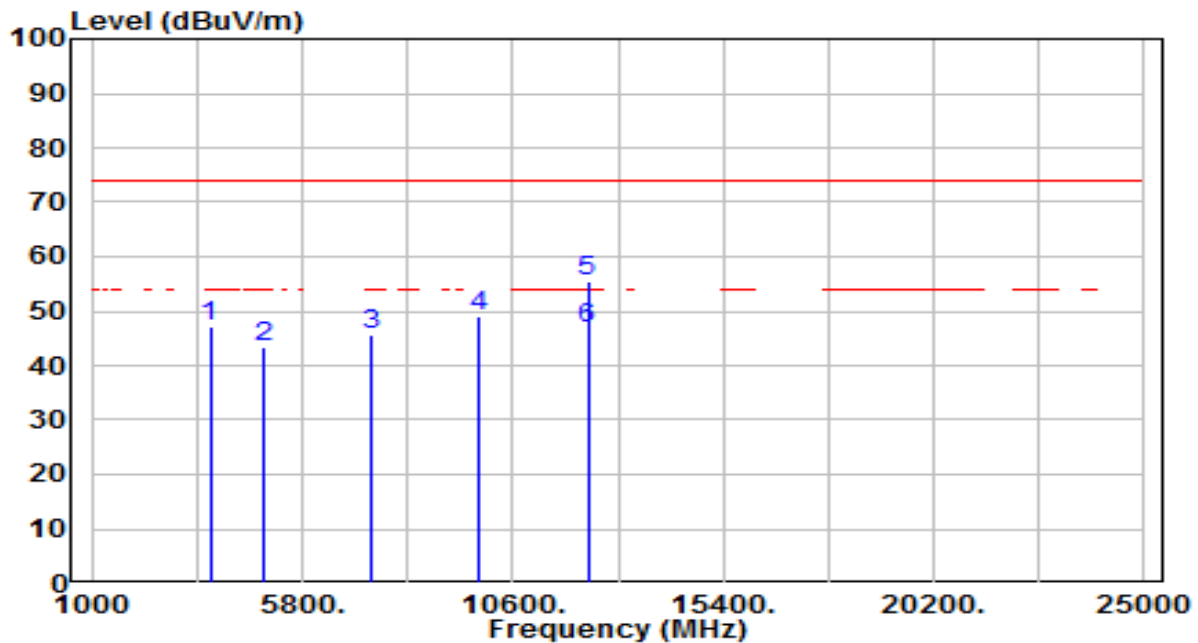


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3693.969	49.86	0.40	50.26	-23.74	74.00	200	180	Peak
2	4924.000	42.73	4.13	46.86	-27.14	74.00	200	209	Peak
3	7386.000	34.05	12.46	46.51	-27.49	74.00	200	180	Peak
4	9848.000	32.94	16.23	49.16	-24.84	74.00	200	190	Peak
5 *	12310.000	40.72	18.75	59.47	-14.53	74.00	218	112	Peak
6 *	12310.000	31.40	18.75	50.15	-3.85	54.00	218	112	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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

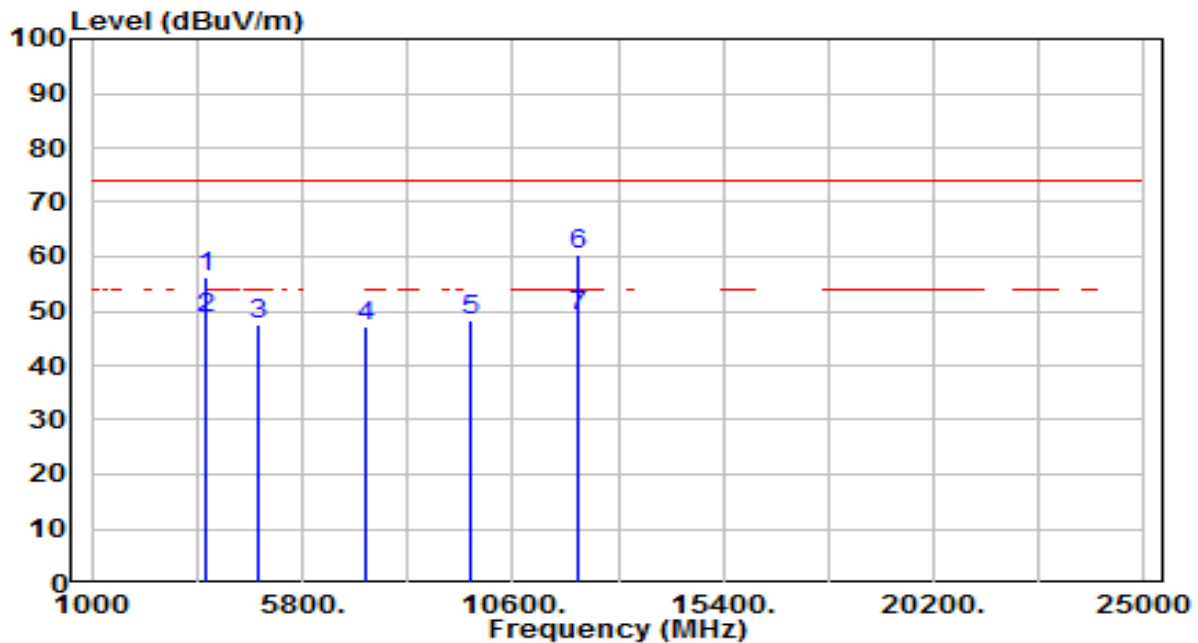


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3695.031	46.82	0.40	47.22	-26.78	74.00	200	175	Peak
2	4924.000	39.45	4.13	43.58	-30.42	74.00	200	360	Peak
3	7386.000	33.14	12.46	45.61	-28.39	74.00	200	225	Peak
4	9848.000	32.95	16.23	49.18	-24.82	74.00	200	98	Peak
5	* 12310.000	36.82	18.75	55.58	-18.42	74.00	142	144	Peak
6	* 12310.000	27.90	18.75	46.65	-7.35	54.00	142	144	Average

Note:

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

EUT	Intercom 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

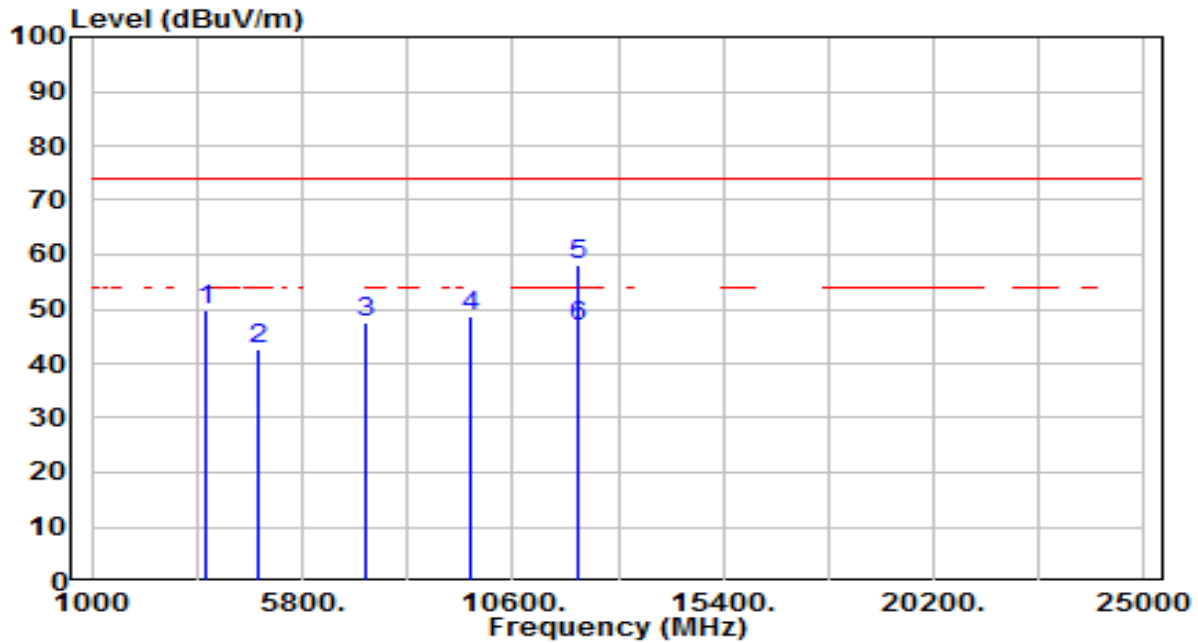


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3613.750	55.93	0.19	56.12	-17.88	74.00	185	182	Peak
2	3613.750	48.50	0.19	48.69	-5.31	54.00	185	182	Average
3	4824.000	43.64	3.91	47.55	-26.45	74.00	200	204	Peak
4	7236.000	35.33	11.94	47.27	-26.73	74.00	200	154	Peak
5	9648.000	32.57	15.79	48.37	-25.63	74.00	200	93	Peak
6	* 12060.000	41.51	18.96	60.47	-13.53	74.00	188	118	Peak
7	* 12060.000	30.28	18.96	49.24	-4.76	54.00	188	118	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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

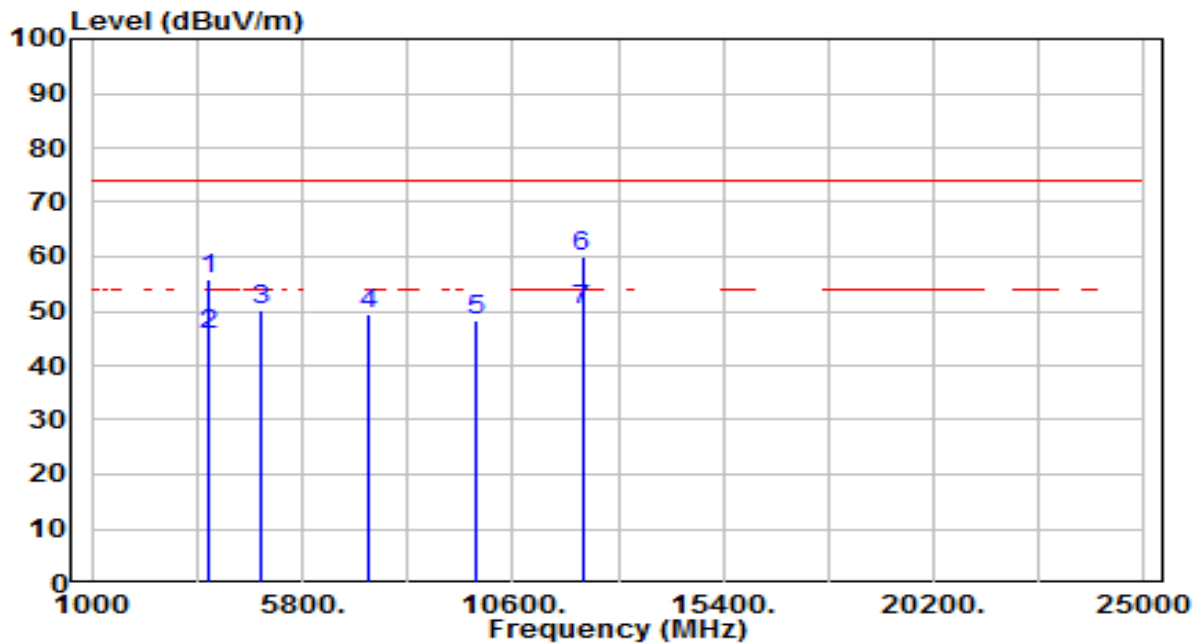


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3613.750	49.63	0.19	49.81	-24.19	74.00	200	165	Peak
2	4824.000	38.68	3.91	42.60	-31.40	74.00	200	360	Peak
3	7236.000	35.51	11.94	47.45	-26.55	74.00	200	208	Peak
4	9648.000	32.98	15.79	48.77	-25.23	74.00	200	344	Peak
5	* 12060.000	38.97	18.96	57.93	-16.07	74.00	205	219	Peak
6	* 12060.000	27.90	18.96	46.86	-7.14	54.00	205	219	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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

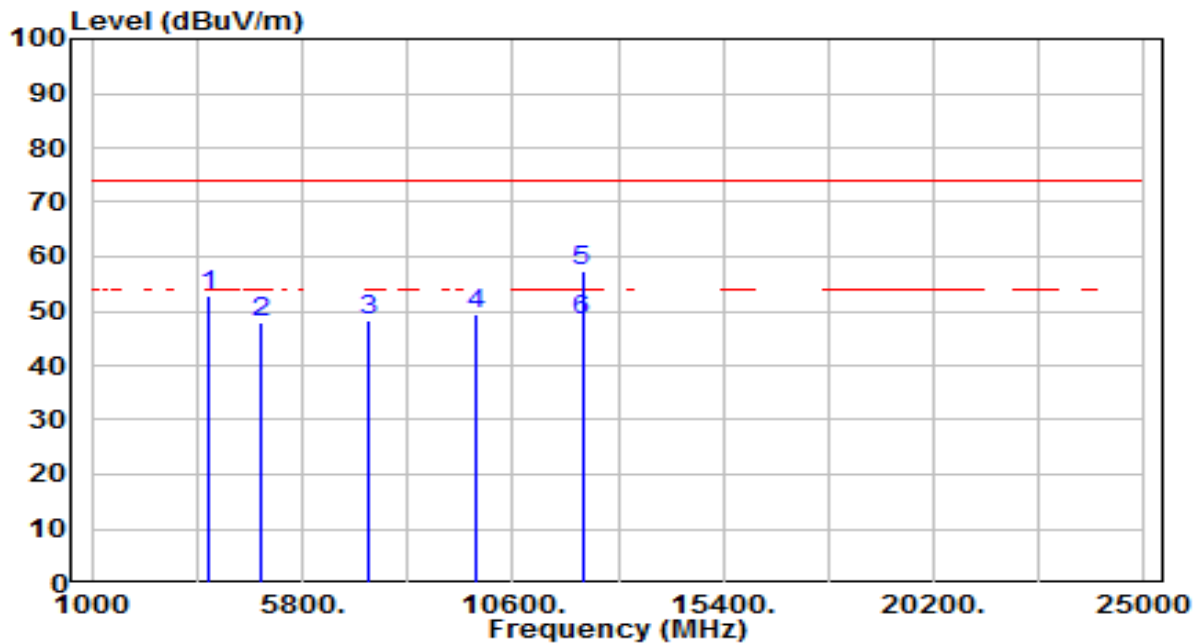


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3653.594	55.48	0.29	55.77	-18.23	74.00	201	188	Peak
2	3653.594	45.23	0.29	45.52	-8.48	54.00	201	188	Average
3	4874.000	46.12	4.02	50.15	-23.85	74.00	200	210	Peak
4	7311.000	37.26	12.20	49.47	-24.53	74.00	200	163	Peak
5	9748.000	32.14	16.01	48.15	-25.85	74.00	200	267	Peak
6	* 12185.000	41.25	18.86	60.11	-13.89	74.00	220	127	Peak
7	* 12185.000	31.28	18.86	50.14	-3.86	54.00	220	127	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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

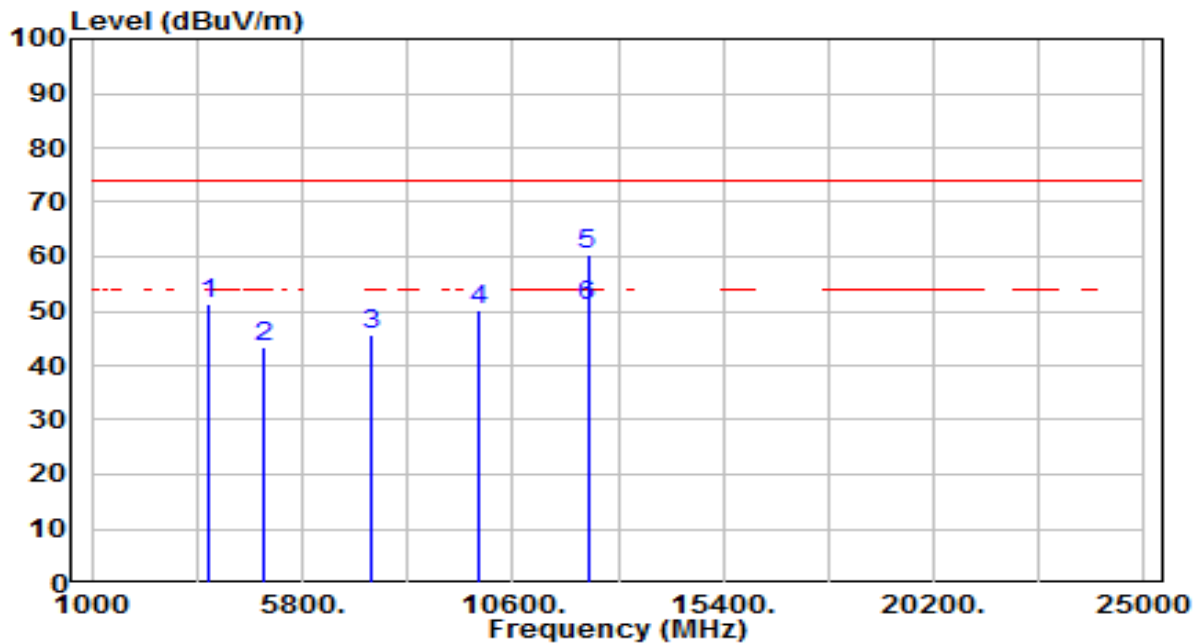


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3647.219	52.44	0.28	52.71	-21.29	74.00	200	173	Peak
2	4874.000	43.83	4.02	47.85	-26.15	74.00	200	360	Peak
3	7311.000	36.16	12.20	48.36	-25.64	74.00	200	190	Peak
4	9748.000	33.57	16.01	49.58	-24.42	74.00	200	212	Peak
5	* 12185.000	38.63	18.86	57.49	-16.51	74.00	145	141	Peak
6	* 12185.000	29.56	18.86	48.42	-5.58	54.00	145	141	Average

Note:

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

EUT	Intercom 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

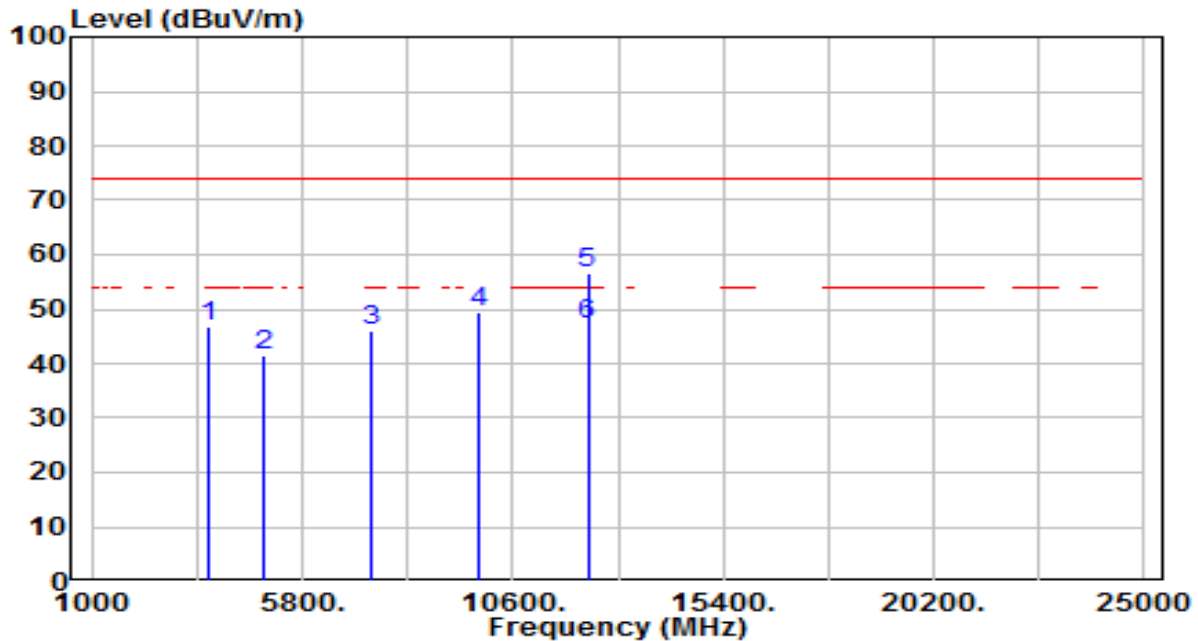


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3691.844	50.77	0.39	51.16	-22.84	74.00	200	178	Peak
2	4924.000	39.20	4.13	43.33	-30.67	74.00	200	210	Peak
3	7386.000	33.08	12.46	45.54	-28.46	74.00	200	136	Peak
4	9848.000	33.92	16.23	50.15	-23.85	74.00	200	214	Peak
5 *	12310.000	41.77	18.75	60.52	-13.48	74.00	221	118	Peak
6 *	12310.000	32.10	18.75	50.85	-3.15	54.00	221	118	Average

Note:

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

EUT	Intercom 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

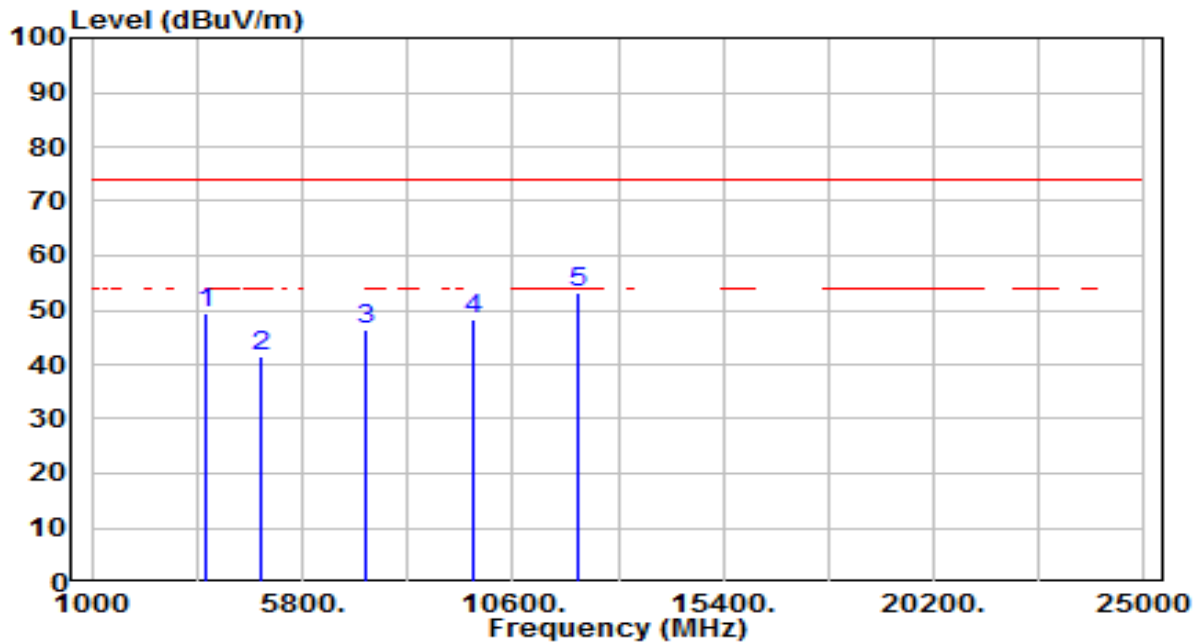


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3684.938	46.37	0.37	46.75	-27.25	74.00	200	173	Peak
2	4924.000	37.45	4.13	41.57	-32.43	74.00	200	360	Peak
3	7386.000	33.66	12.46	46.12	-27.88	74.00	200	355	Peak
4	9848.000	33.22	16.23	49.45	-24.55	74.00	200	37	Peak
5	* 12310.000	37.83	18.75	56.59	-17.41	74.00	144	141	Peak
6	* 12310.000	28.44	18.75	47.19	-6.81	54.00	144	141	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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0+1	Test Voltage	AC 120V/60Hz

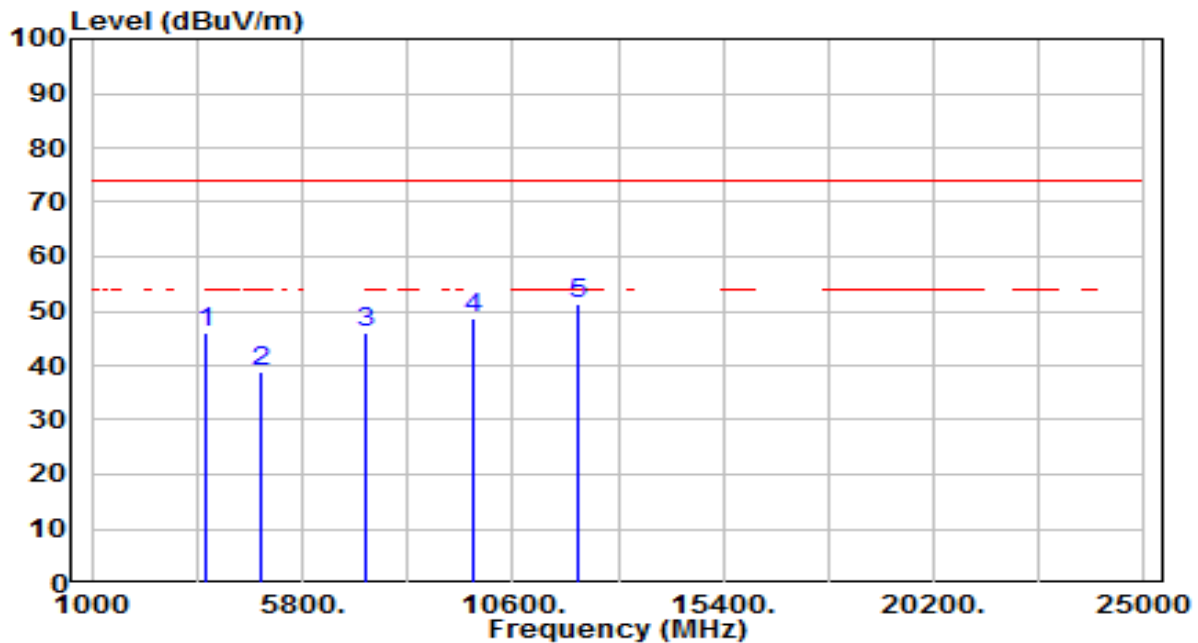


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3618.531	49.41	0.20	49.61	-24.39	74.00	200	189	Peak
2	4844.000	37.61	3.96	41.57	-32.43	74.00	200	211	Peak
3	7266.000	34.25	12.04	46.29	-27.71	74.00	200	132	Peak
4	9688.000	32.35	15.88	48.22	-25.78	74.00	200	46	Peak
5	* 12110.000	34.24	18.92	53.16	-20.84	74.00	200	114	Peak

Note:

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

EUT	Intercom 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0+1	Test Voltage	AC 120V/60Hz

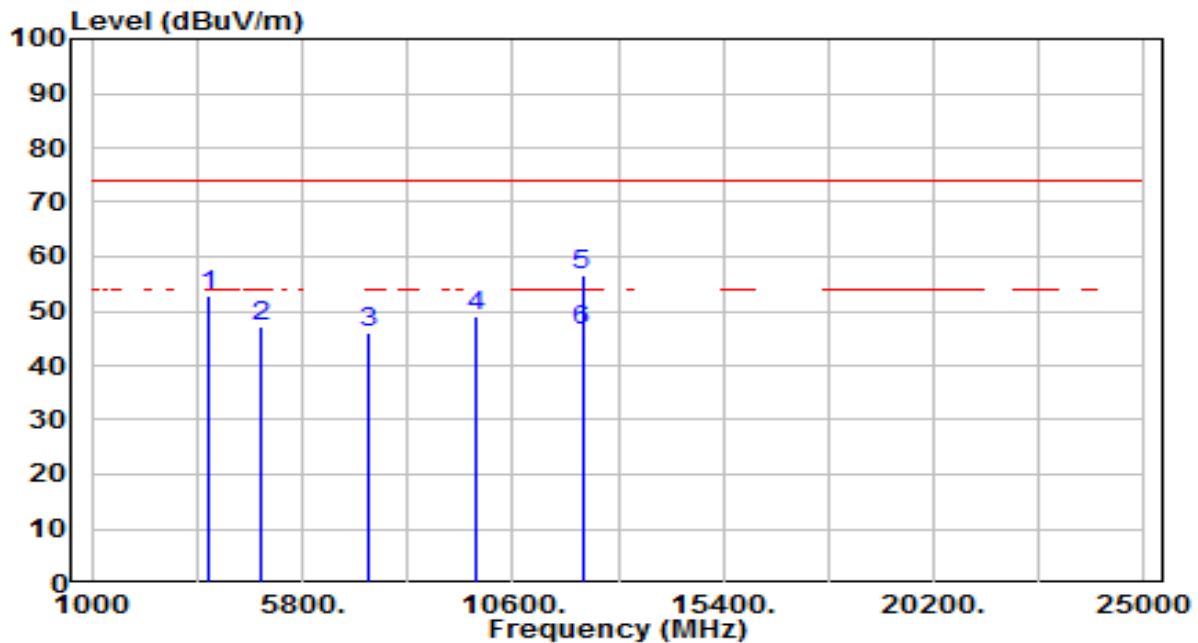


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3618.531	45.70	0.20	45.91	-28.09	74.00	200	169	Peak
2	4844.000	35.08	3.96	39.04	-34.96	74.00	200	360	Peak
3	7266.000	33.93	12.04	45.97	-28.03	74.00	200	212	Peak
4	9688.000	32.64	15.88	48.52	-25.48	74.00	200	56	Peak
5	* 12110.000	32.39	18.92	51.30	-22.70	74.00	200	144	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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

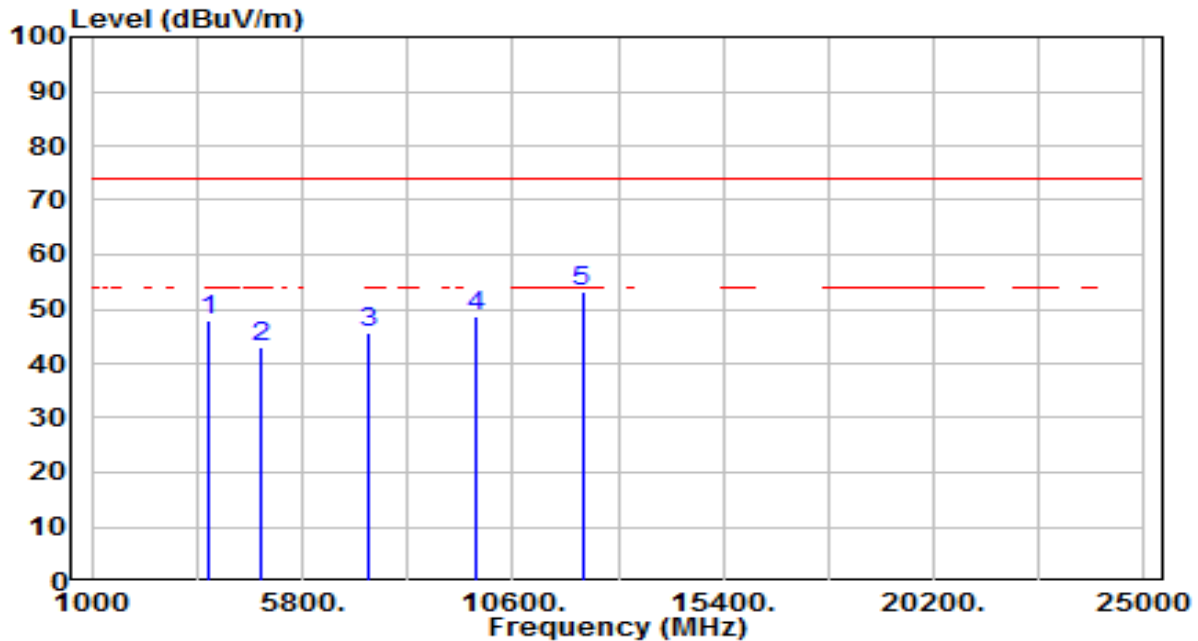


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3639.250	52.70	0.25	52.96	-21.04	74.00	200	168	Peak
2	4874.000	43.06	4.02	47.08	-26.92	74.00	200	208	Peak
3	7311.000	33.83	12.20	46.03	-27.97	74.00	200	157	Peak
4	9748.000	32.86	16.01	48.87	-25.13	74.00	200	0	Peak
5	* 12185.000	37.64	18.86	56.49	-17.51	74.00	218	118	Peak
6	* 12185.000	27.50	18.86	46.36	-7.64	54.00	218	118	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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 6_ANT 0+1	Test Voltage	AC 120V/60Hz

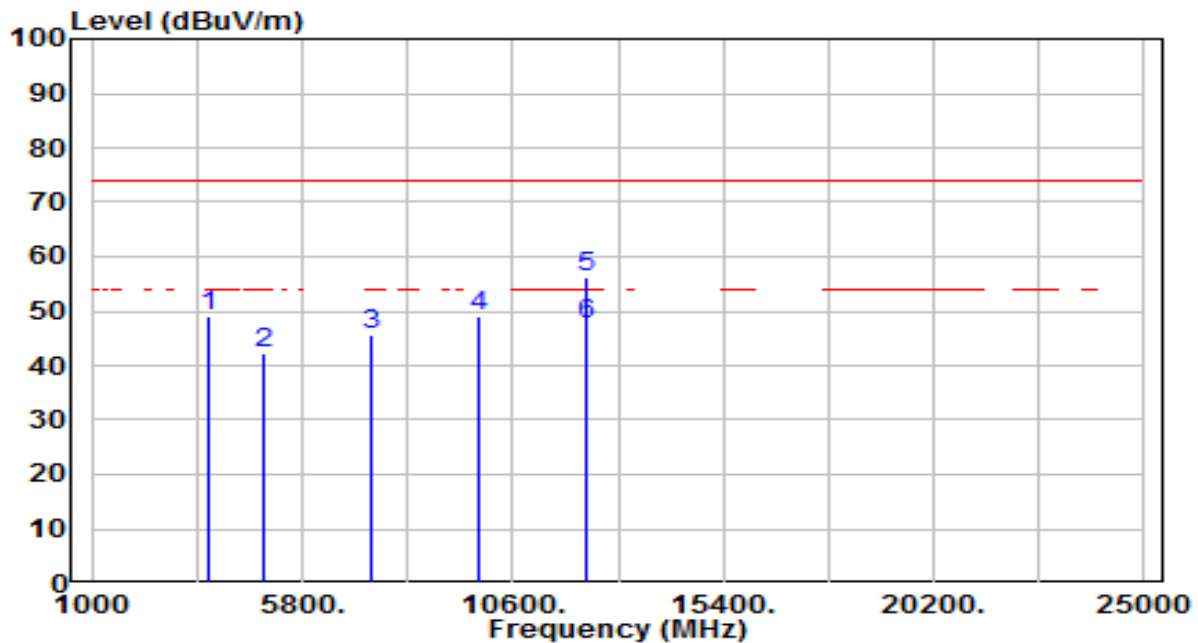


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3642.969	47.85	0.26	48.11	-25.89	74.00	200	176	Peak
2	4874.000	38.87	4.02	42.89	-31.11	74.00	200	360	Peak
3	7311.000	33.63	12.20	45.83	-28.17	74.00	200	187	Peak
4	9748.000	32.83	16.01	48.84	-25.16	74.00	200	280	Peak
5	* 12185.000	34.53	18.86	53.39	-20.61	74.00	200	140	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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 9_ANT 0+1	Test Voltage	AC 120V/60Hz

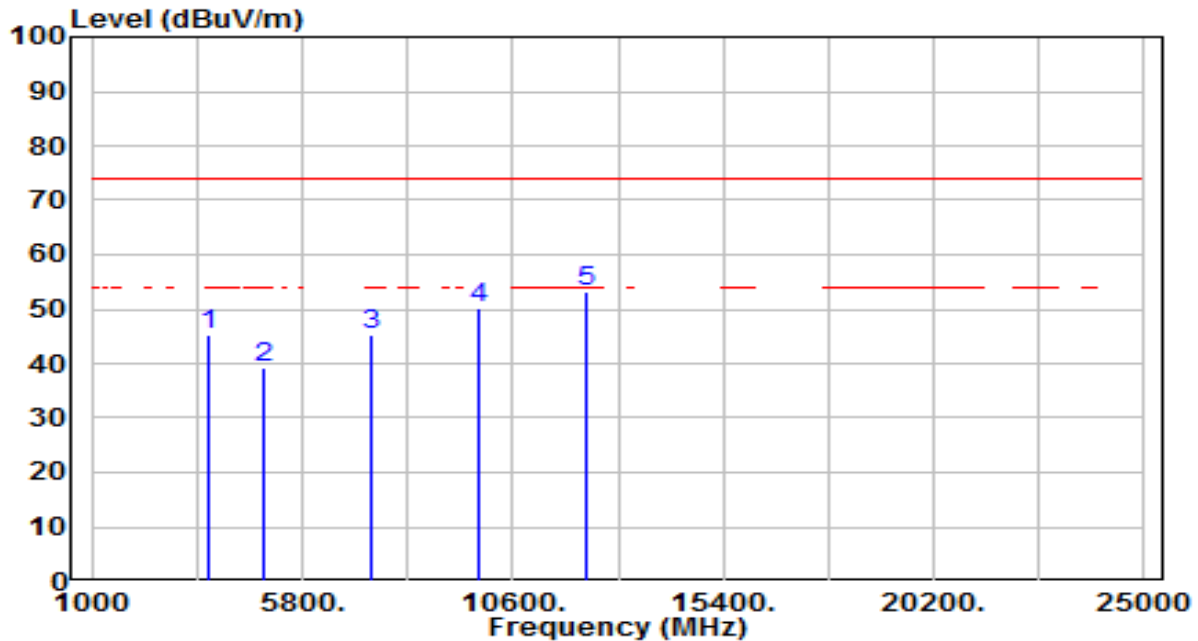


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	3661.031	48.61	0.31	48.93	-25.07	74.00	200	174	Peak
2	4904.000	38.04	4.08	42.12	-31.88	74.00	200	213	Peak
3	7356.000	33.41	12.36	45.77	-28.23	74.00	200	306	Peak
4	9808.000	32.89	16.14	49.03	-24.97	74.00	200	131	Peak
5	* 12260.000	37.35	18.79	56.14	-17.86	74.00	215	110	Peak
6	* 12260.000	28.70	18.79	47.49	-6.51	54.00	215	110	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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	23°C /62%
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	3691.313	44.84	0.39	45.23	-28.77	74.00	200	176	Peak
2	4904.000	35.18	4.08	39.27	-34.73	74.00	200	360	Peak
3	7356.000	32.81	12.36	45.17	-28.83	74.00	200	108	Peak
4	9808.000	33.91	16.14	50.05	-23.95	74.00	200	294	Peak
5 *	12260.000	34.50	18.79	53.30	-20.70	74.00	200	140	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

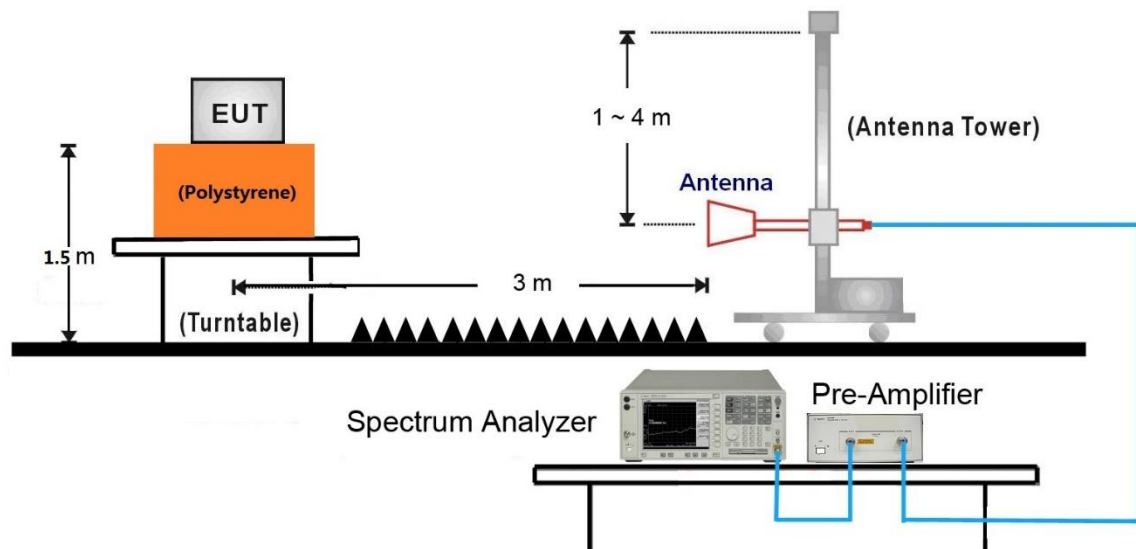
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

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

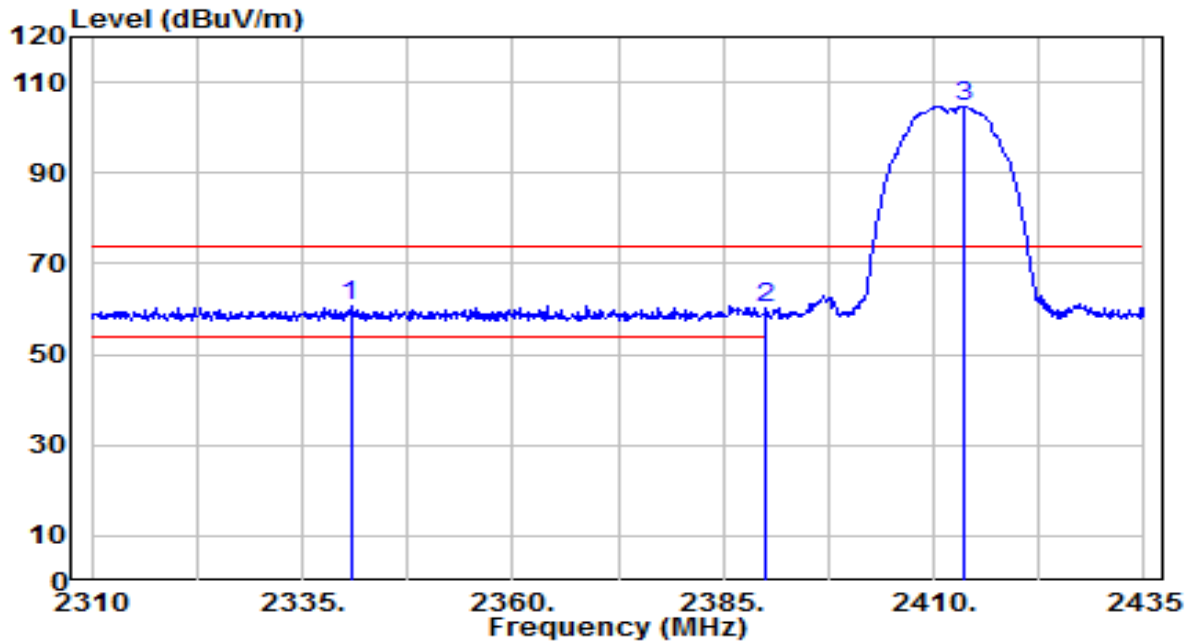
7.7.4. Test Setup

1GHz ~ 18GHz Test Setup:



7.7.5. Test Result

EUT	Intercom 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

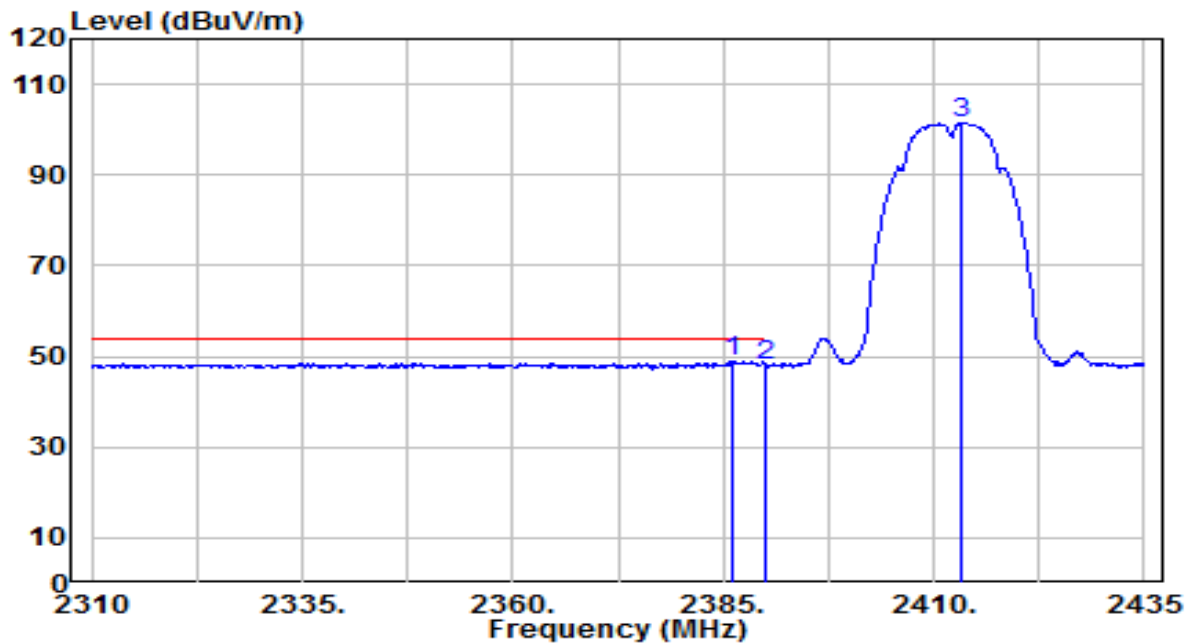


No		Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2340.750	28.88	32.01	60.88	-13.12	74.00	225	180	Peak
2		2390.000	27.88	32.18	60.07	-13.93	74.00	225	180	Peak
3		2413.500	72.53	32.27	104.79	N/A	N/A	225	180	Peak

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

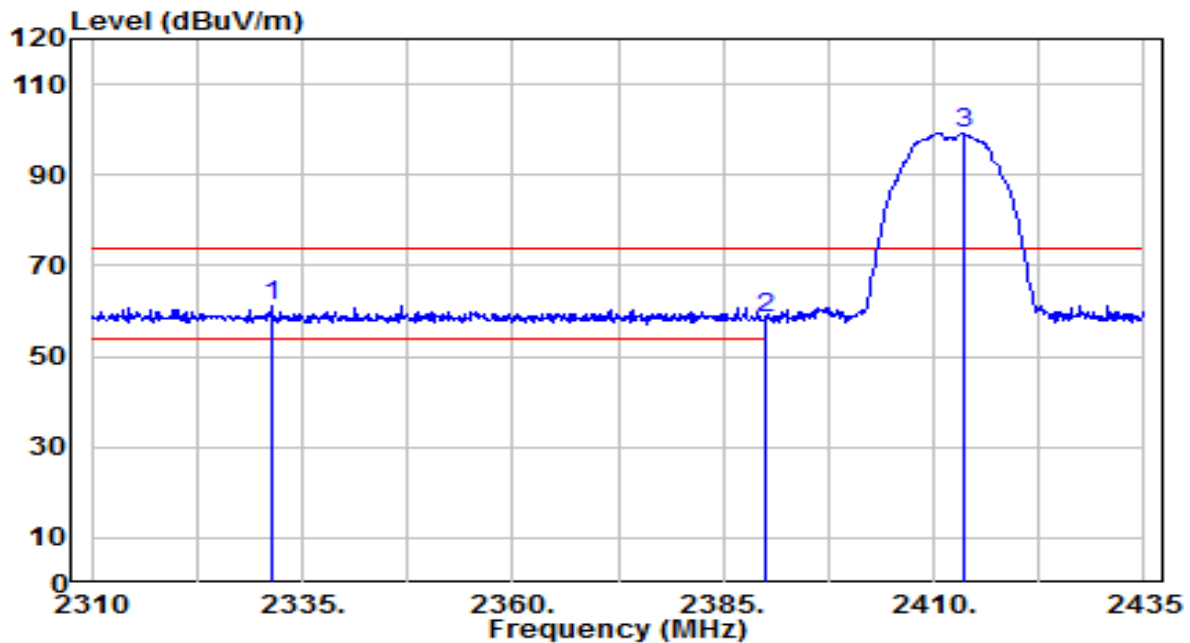


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2386.250	16.79	32.17	48.96	-5.04	54.00	225	180	Average
2		2390.000	15.90	32.18	48.08	-5.92	54.00	225	180	Average
3		2413.375	69.26	32.27	101.53	N/A	N/A	225	180	Average

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

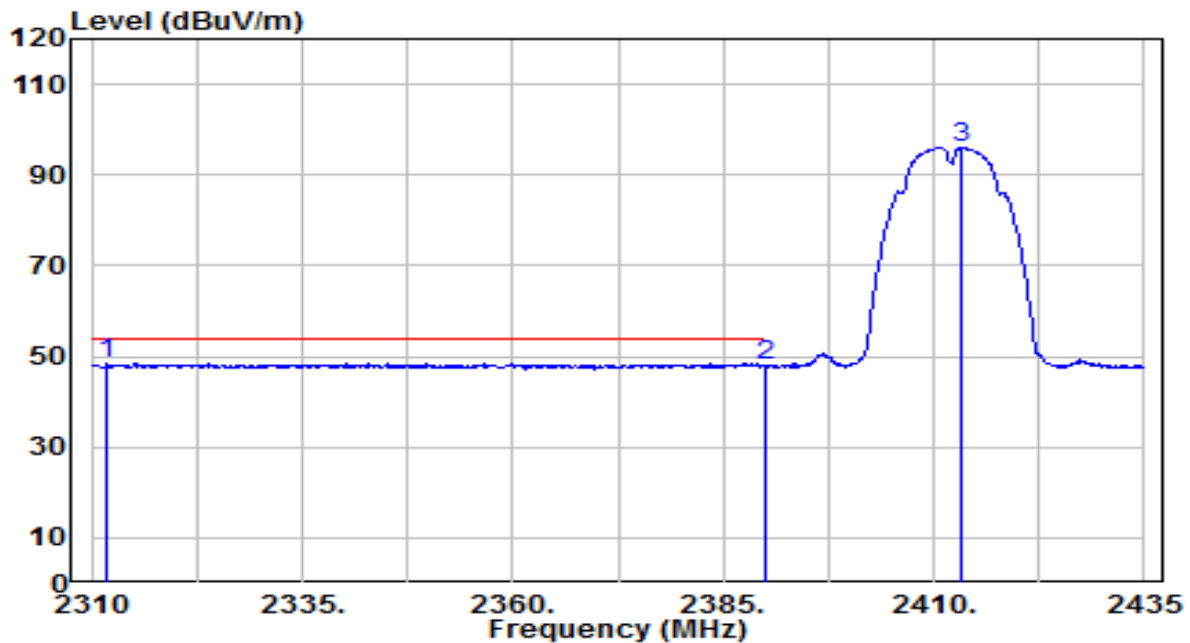


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2331.375	29.30	31.97	61.27	-12.73	74.00	150	200	Peak
2		2390.000	26.12	32.18	58.31	-15.69	74.00	150	200	Peak
3		2413.500	66.81	32.27	99.08	N/A	N/A	150	200	Peak

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

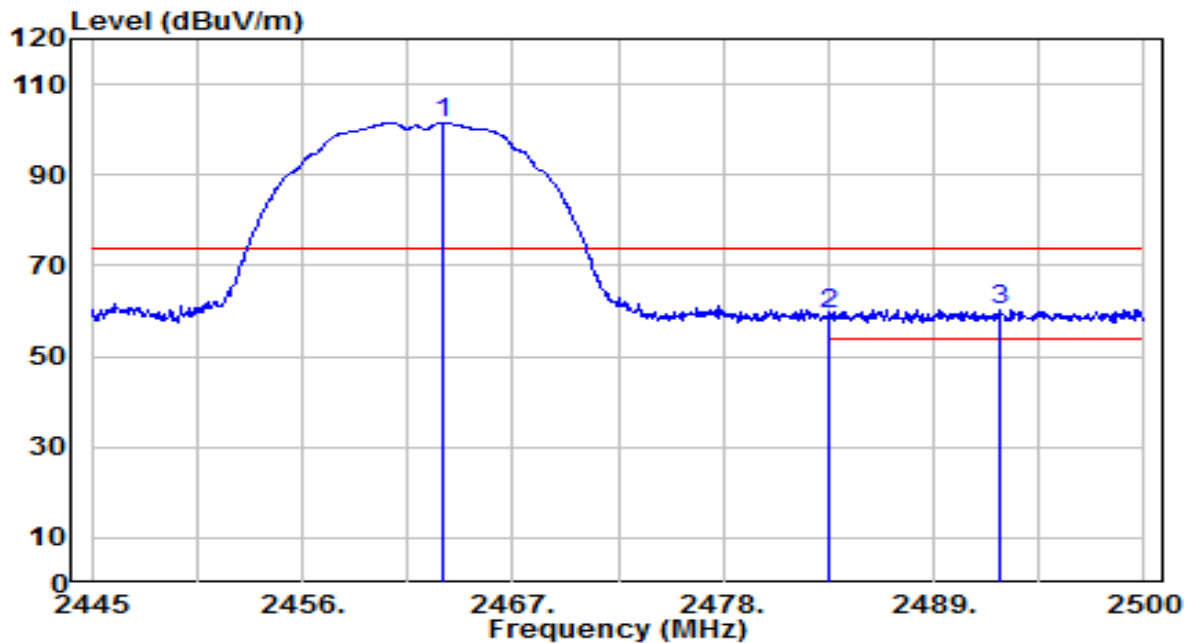


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2311.750	16.56	31.90	48.46	-5.54	54.00	150	200	Average
2		2390.000	15.84	32.18	48.02	-5.98	54.00	150	200	Average
3		2413.250	63.64	32.27	95.91	N/A	N/A	150	200	Average

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

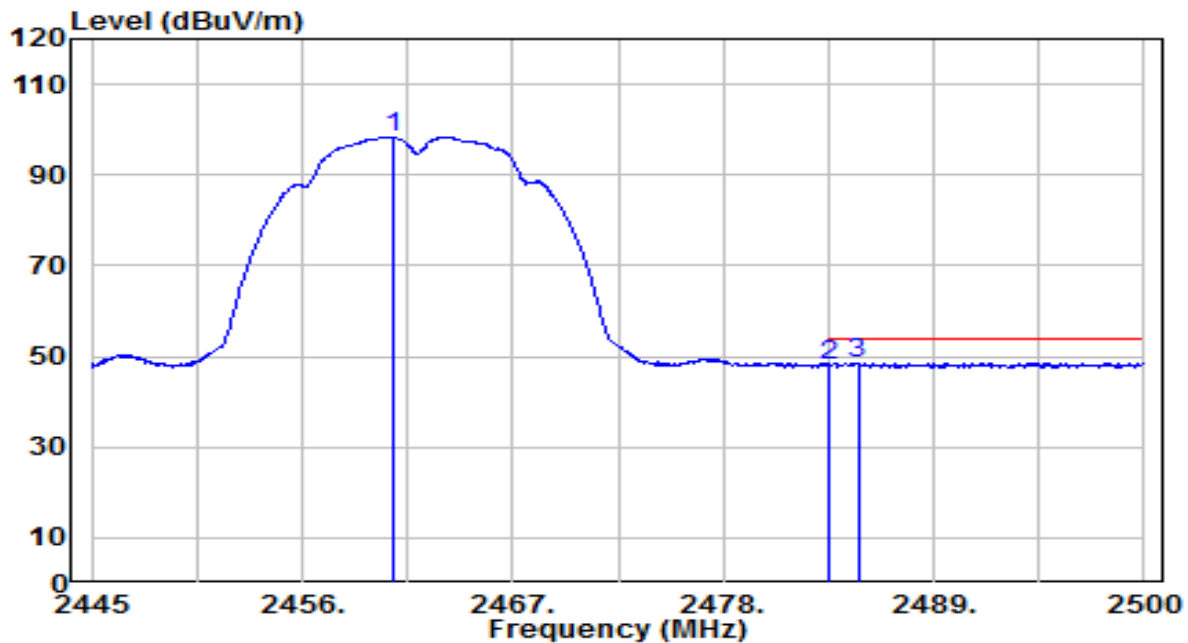


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2463.370	69.01	32.45	101.46	N/A	N/A	220	175	Peak
2	2483.500	26.70	32.52	59.22	-14.78	74.00	220	175	Peak
3	* 2492.520	27.81	32.55	60.36	-13.64	74.00	220	175	Peak

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

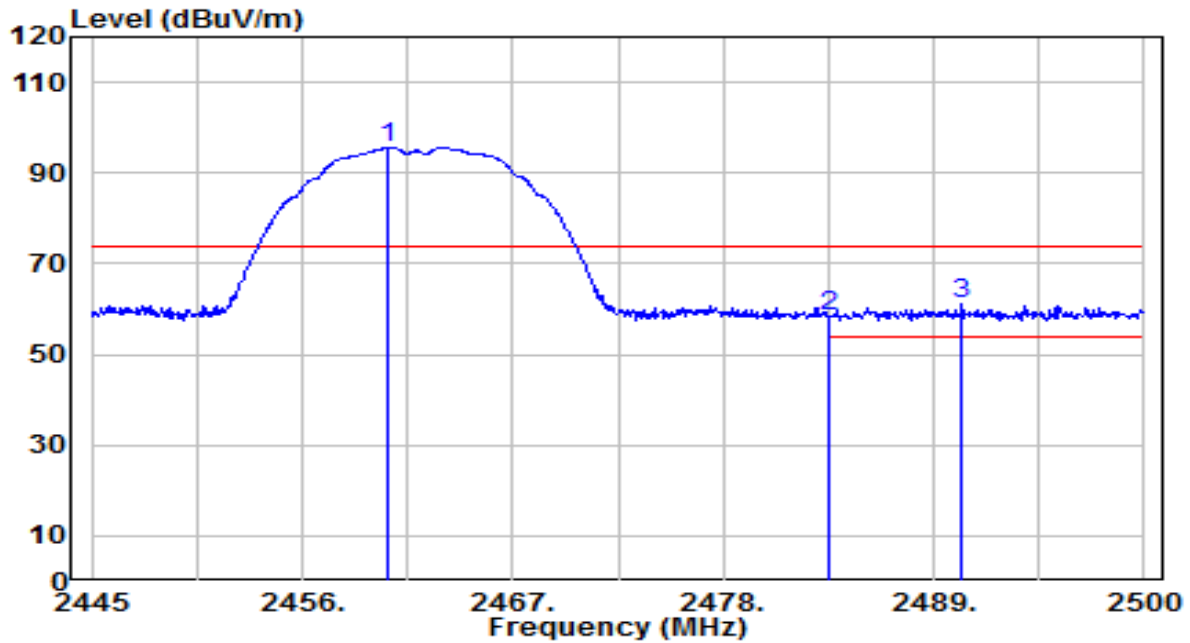


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2460.730	65.87	32.44	98.31	N/A	N/A	220	175	Average
2	2483.500	15.58	32.52	48.10	-5.90	54.00	220	175	Average
3	* 2485.040	16.09	32.53	48.62	-5.38	54.00	220	175	Average

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

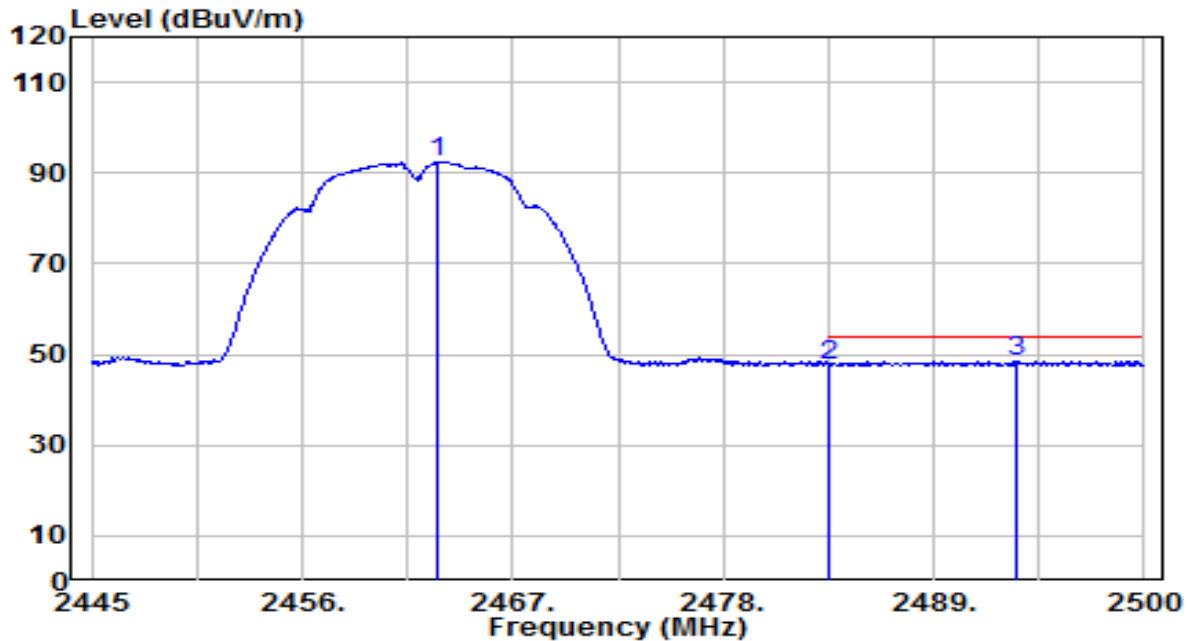


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2460.455	63.12	32.44	95.56	N/A	N/A	135	205	Peak
2	2483.500	25.91	32.52	58.43	-15.57	74.00	135	205	Peak
3	* 2490.485	28.42	32.55	60.97	-13.03	74.00	135	205	Peak

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11b_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

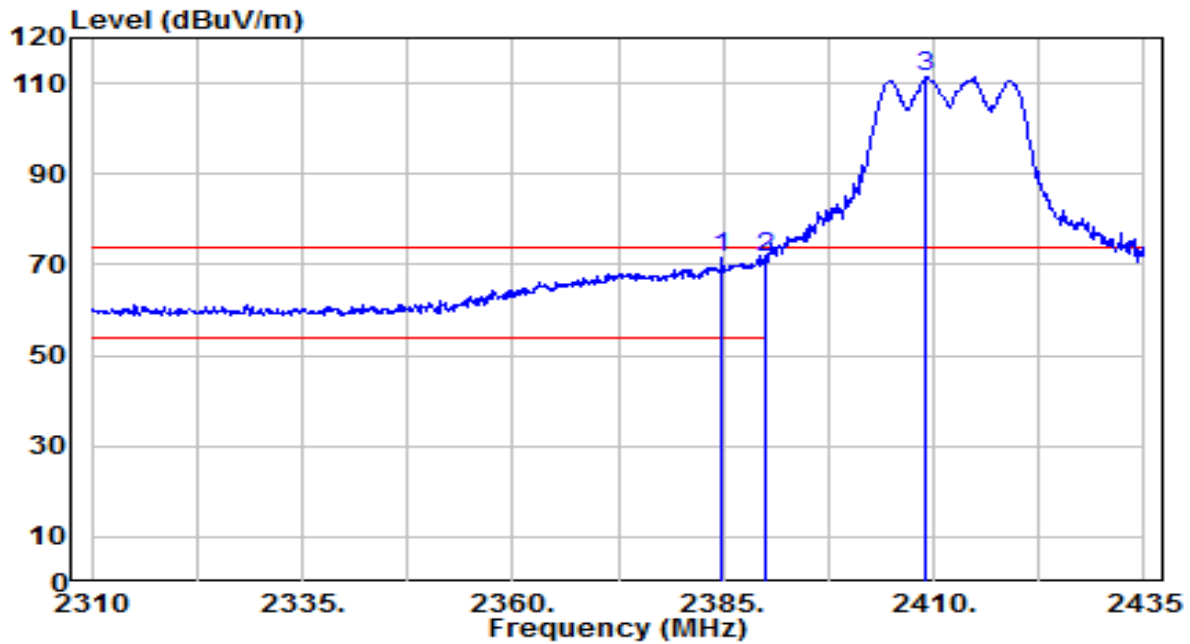


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2463.095	59.85	32.45	92.30	N/A	N/A	135	205	Average
2	2483.500	15.25	32.52	47.77	-6.23	54.00	135	205	Average
3	* 2493.290	15.95	32.56	48.51	-5.49	54.00	135	205	Average

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

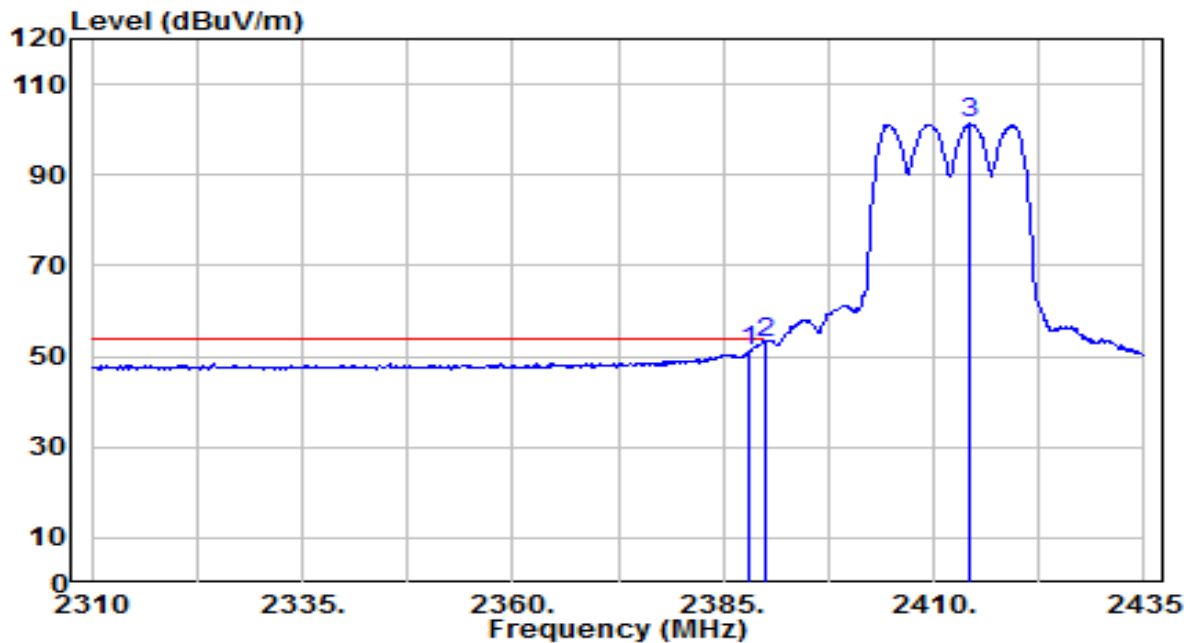


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2384.875	39.26	32.17	71.43	-2.57	74.00	225	180	Peak
2	* 2390.000	39.29	32.18	71.47	-2.53	74.00	225	180	Peak
3	2409.000	79.01	32.25	111.27	N/A	N/A	225	180	Peak

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

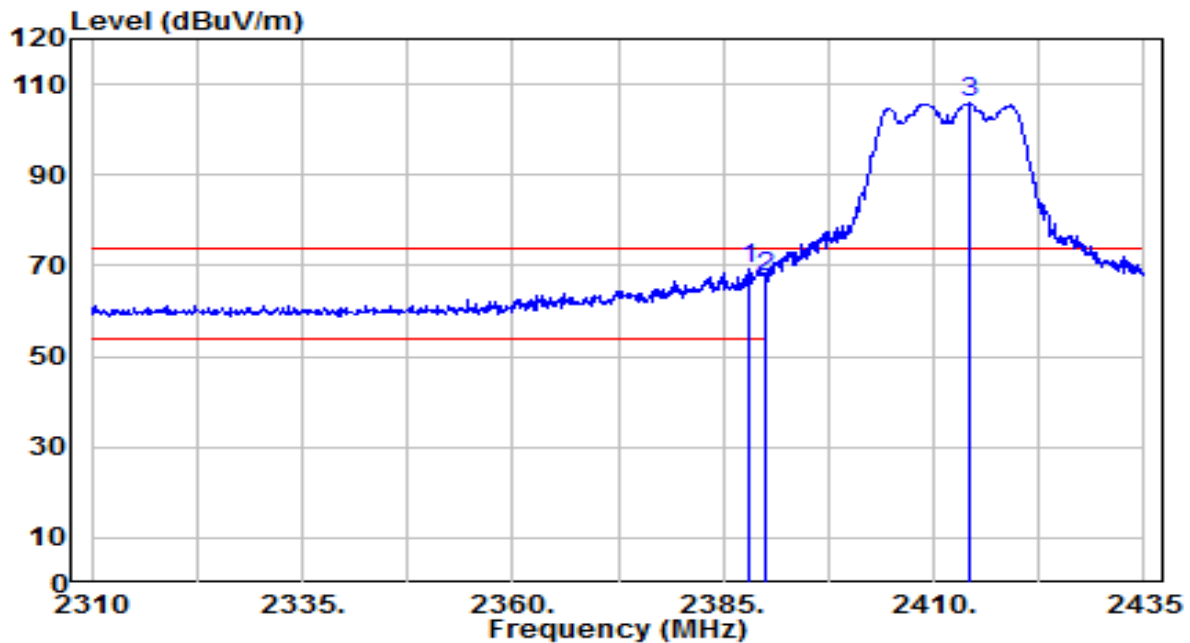


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2388.000	18.77	32.18	50.95	-3.05	54.00	225	180	Average
2	* 2390.000	20.81	32.18	53.00	-1.00	54.00	225	180	Average
3	2414.125	69.00	32.27	101.27	N/A	N/A	225	180	Average

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

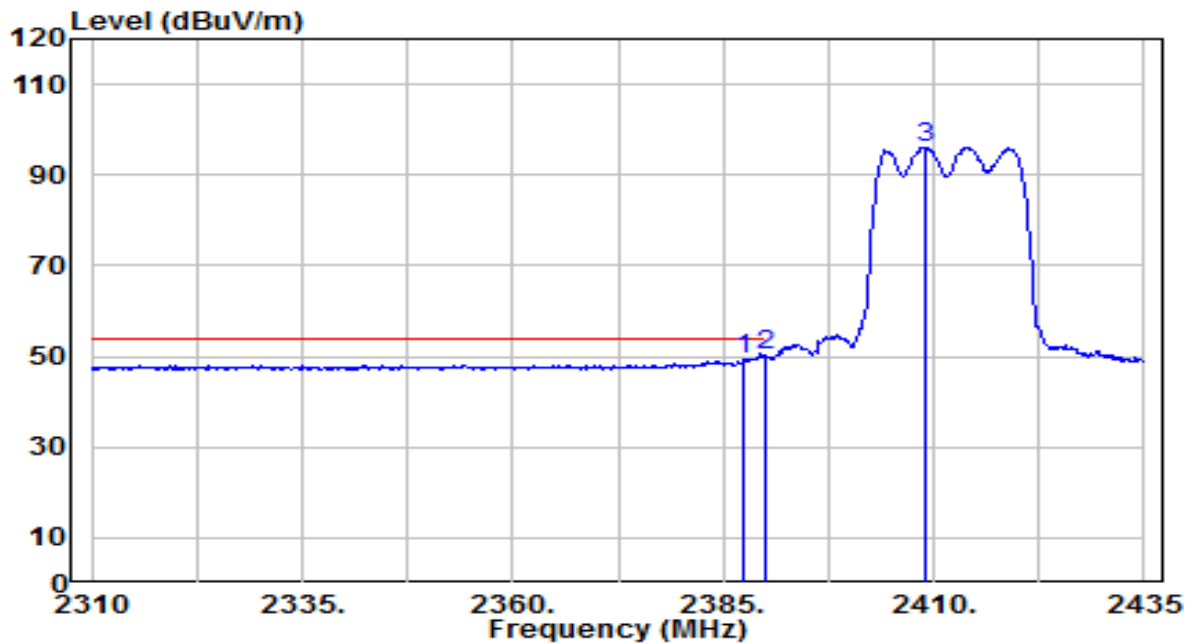


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2388.000	37.30	32.18	69.48	-4.52	74.00	150	200	Peak
2		2390.000	35.23	32.18	67.41	-6.59	74.00	150	200	Peak
3		2414.125	73.55	32.27	105.82	N/A	N/A	150	200	Peak

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

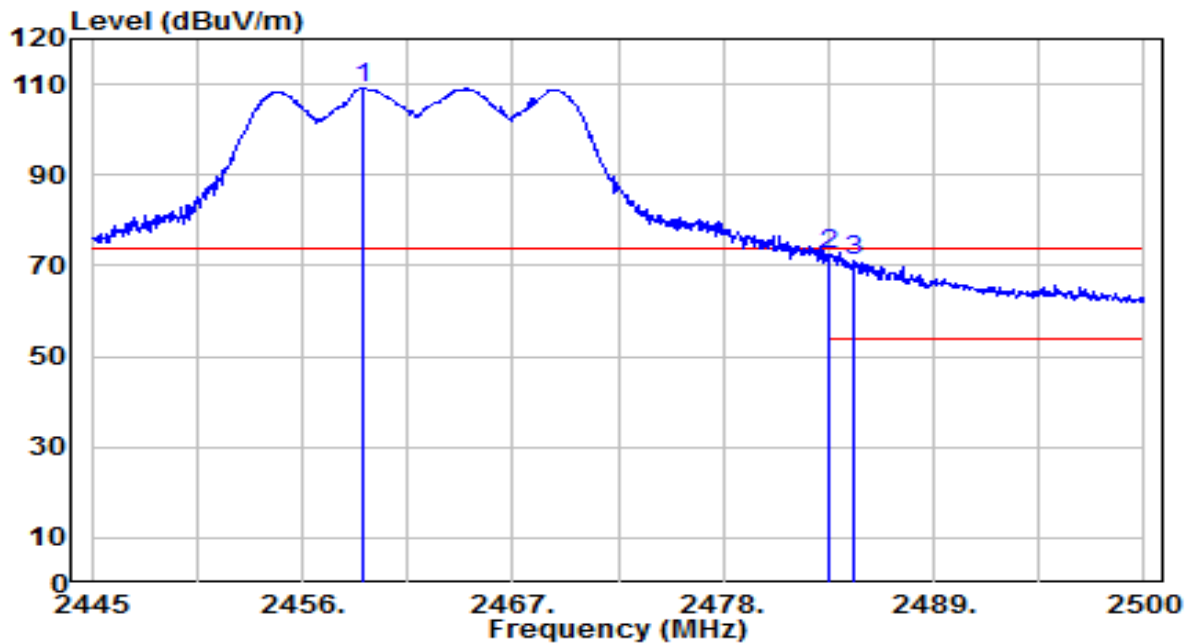


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2387.500	17.19	32.18	49.37	-4.63	54.00	150	200	Average
2	* 2390.000	17.98	32.18	50.16	-3.84	54.00	150	200	Average
3	2409.125	63.97	32.25	96.22	N/A	N/A	150	200	Average

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

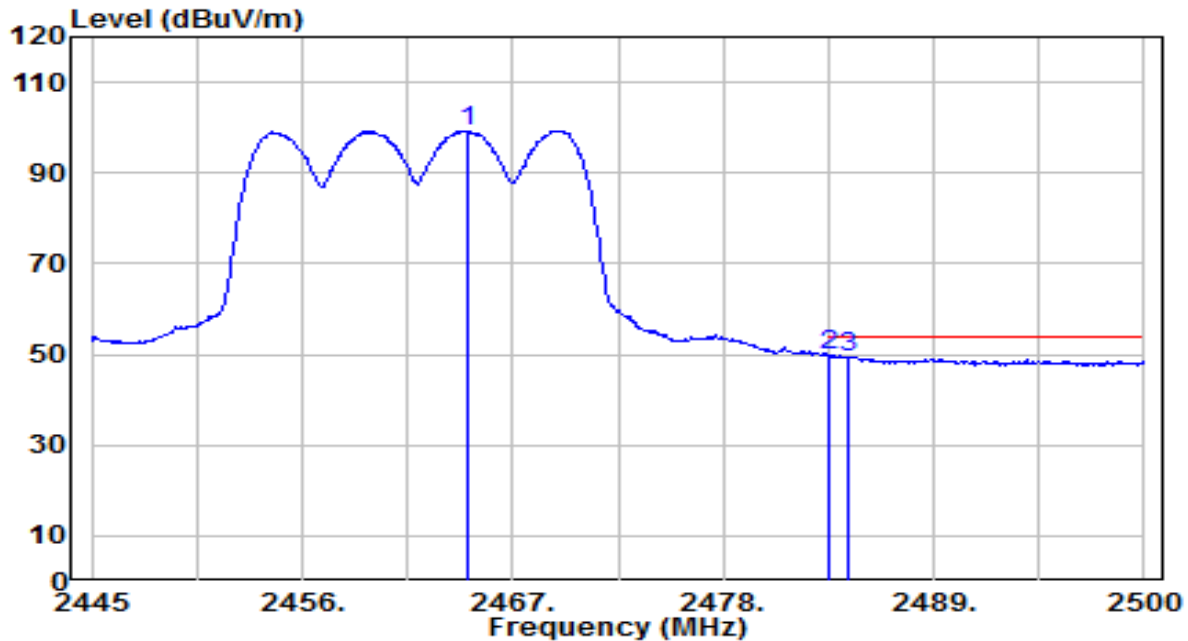


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2459.135	76.69	32.43	109.12	N/A	N/A	220	175	Peak
2	* 2483.500	40.09	32.52	72.61	-1.39	74.00	220	175	Peak
3	2484.820	38.47	32.53	71.00	-3.00	74.00	220	175	Peak

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

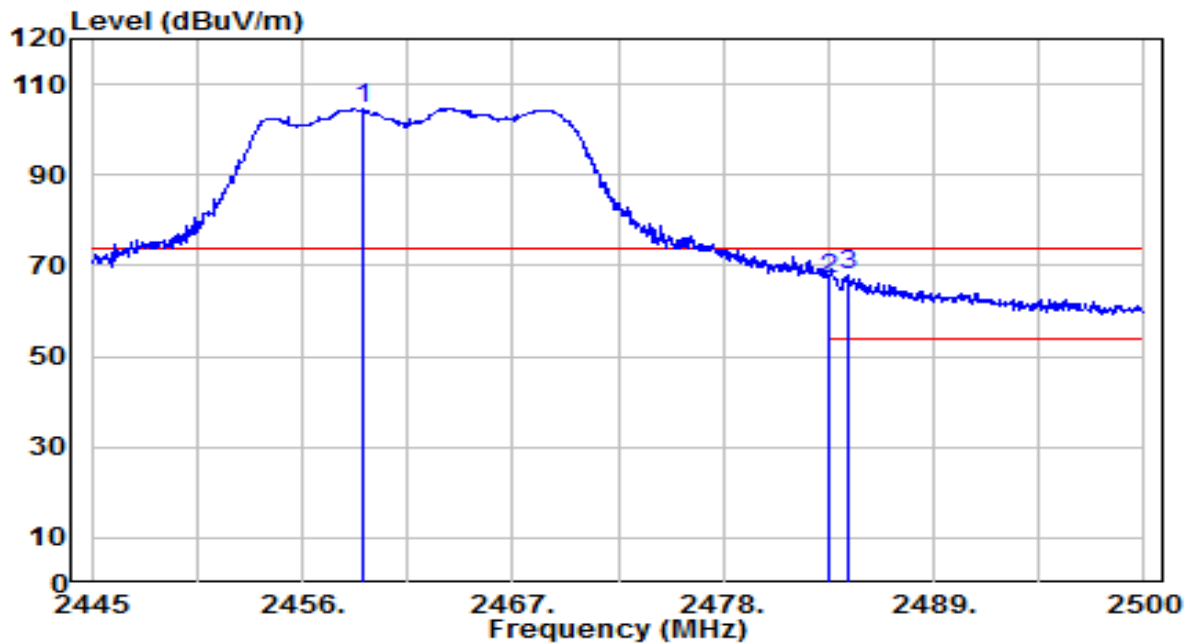


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2464.635	66.94	32.45	99.39	N/A	N/A	220	175	Average
2	* 2483.500	17.23	32.52	49.75	-4.25	54.00	220	175	Average
3	2484.545	16.77	32.52	49.30	-4.70	54.00	220	175	Average

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

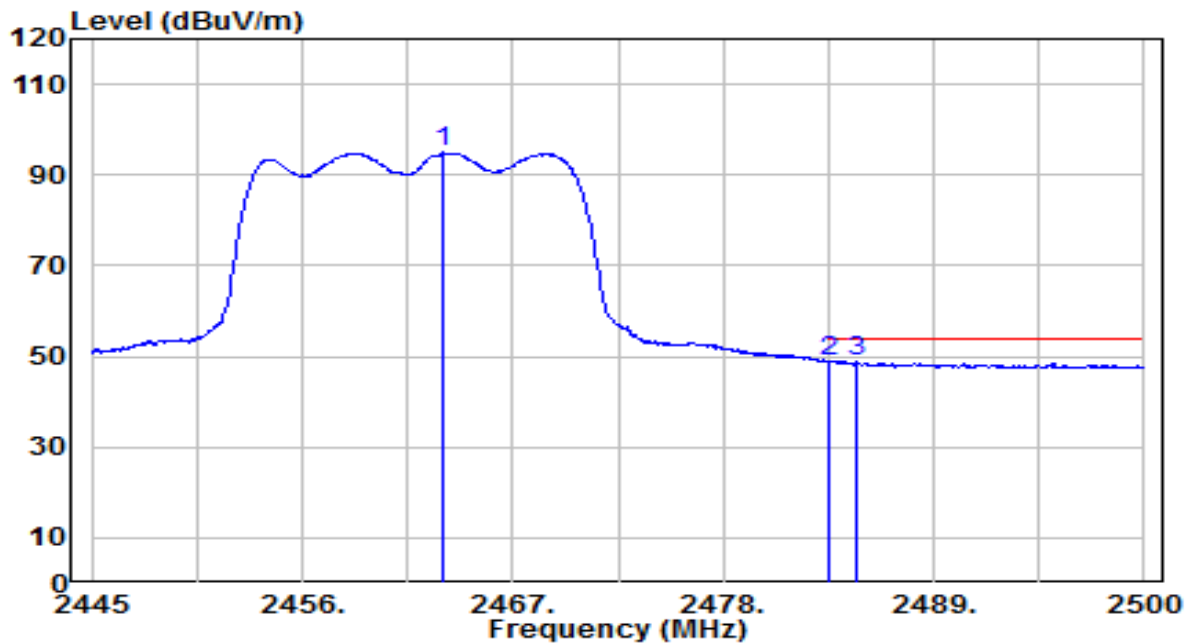


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2459.190	72.23	32.43	104.67	N/A	N/A	135	205	Peak
2	2483.500	34.62	32.52	67.14	-6.86	74.00	135	205	Peak
3	* 2484.600	35.55	32.52	68.08	-5.92	74.00	135	205	Peak

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11g_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

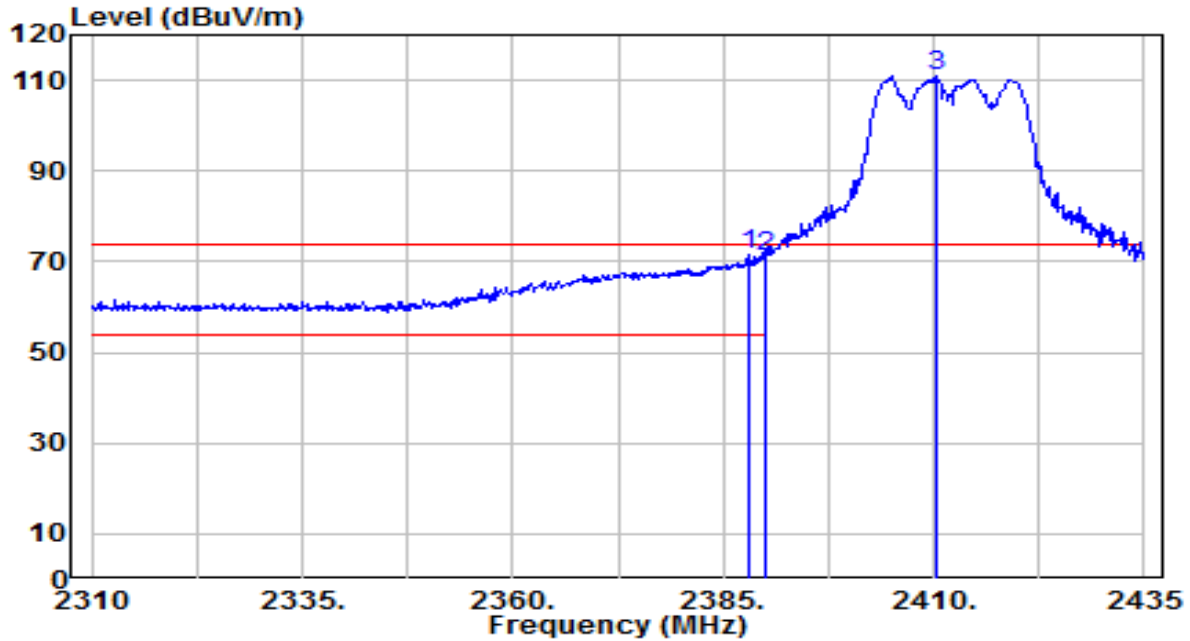


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2463.370	62.42	32.45	94.87	N/A	N/A	135	205	Average
2	* 2483.500	16.37	32.52	48.89	-5.11	54.00	135	205	Average
3	2484.985	16.17	32.53	48.70	-5.30	54.00	135	205	Average

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

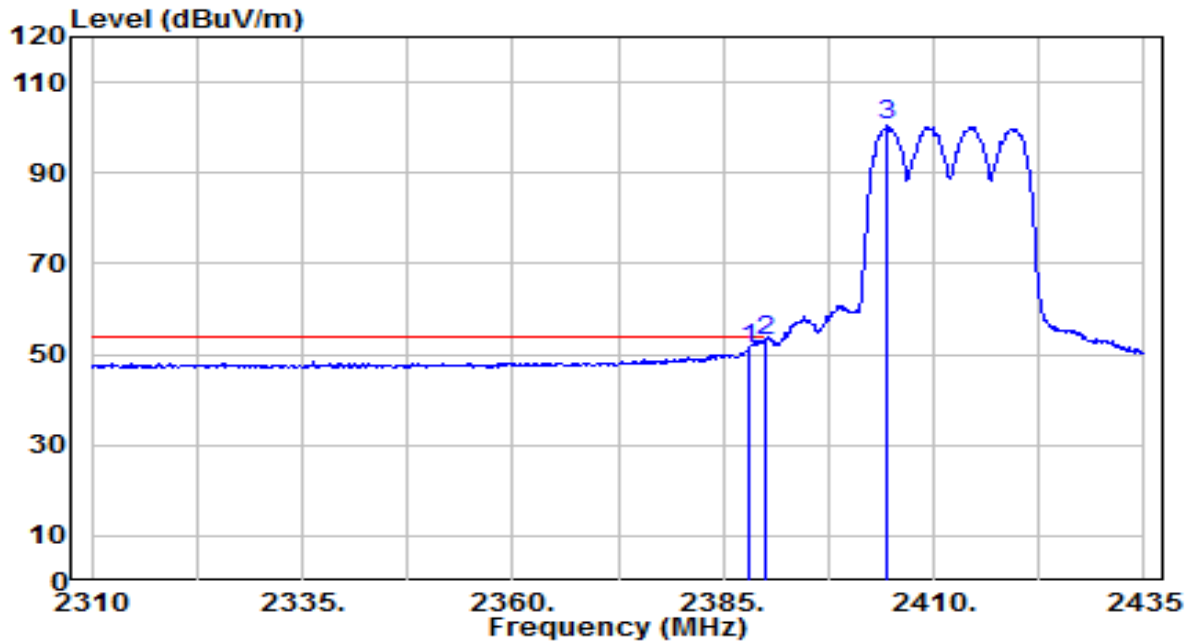


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2388.000	39.19	32.18	71.37	-2.63	74.00	225	180	Peak
2		2390.000	39.04	32.18	71.23	-2.77	74.00	225	180	Peak
3		2410.375	78.79	32.26	111.05	N/A	N/A	225	180	Peak

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

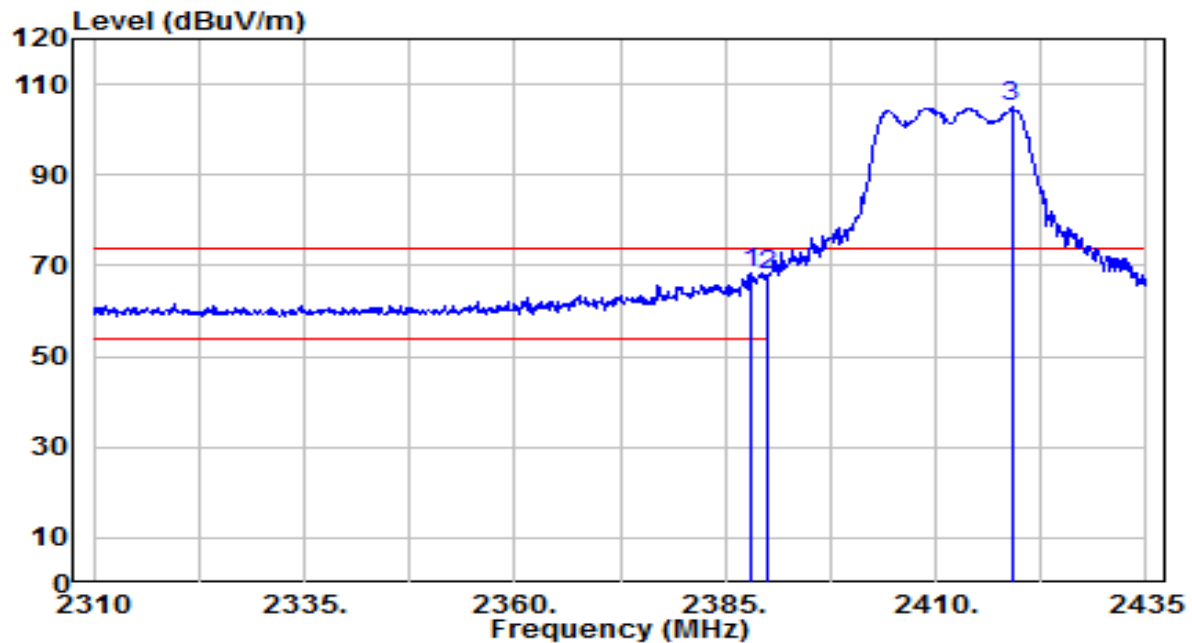


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2388.000	18.96	32.18	51.14	-2.86	54.00	225	180	Average
2	* 2390.000	20.75	32.18	52.93	-1.07	54.00	225	180	Average
3	2404.500	68.30	32.24	100.54	N/A	N/A	225	180	Average

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

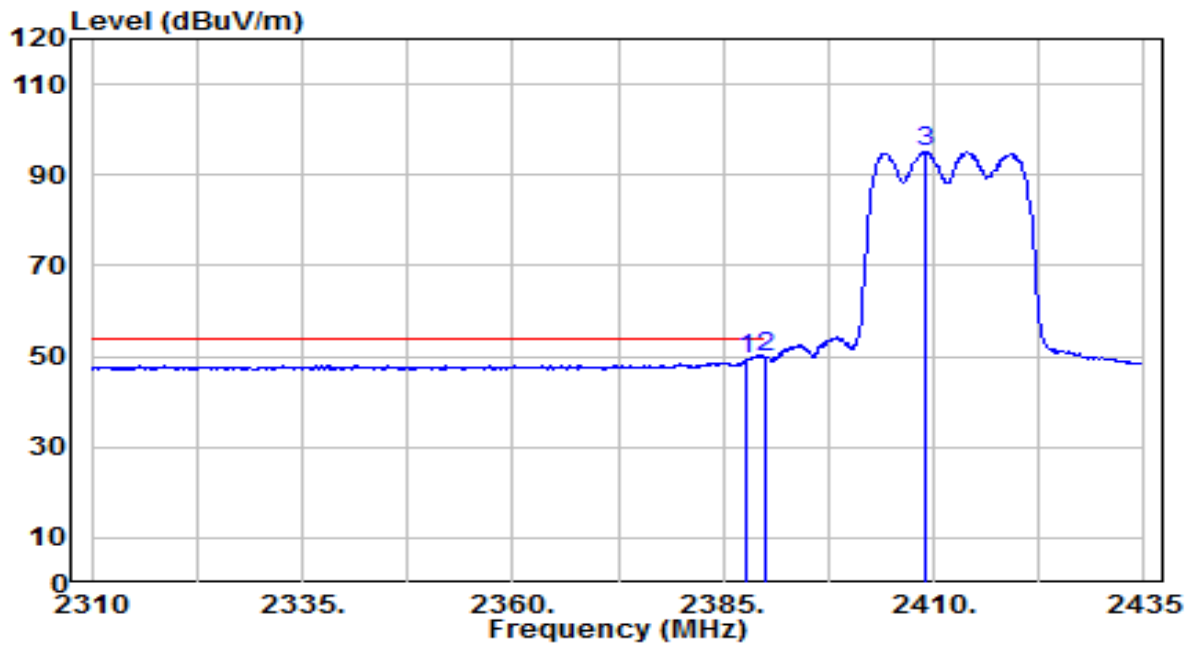


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2388.000	36.31	32.18	68.48	-5.52	74.00	150	200	Peak
2		2390.000	35.55	32.18	67.73	-6.27	74.00	150	200	Peak
3		2419.000	72.62	32.29	104.91	N/A	N/A	150	200	Peak

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0+1	Test Voltage	AC 120V/60Hz

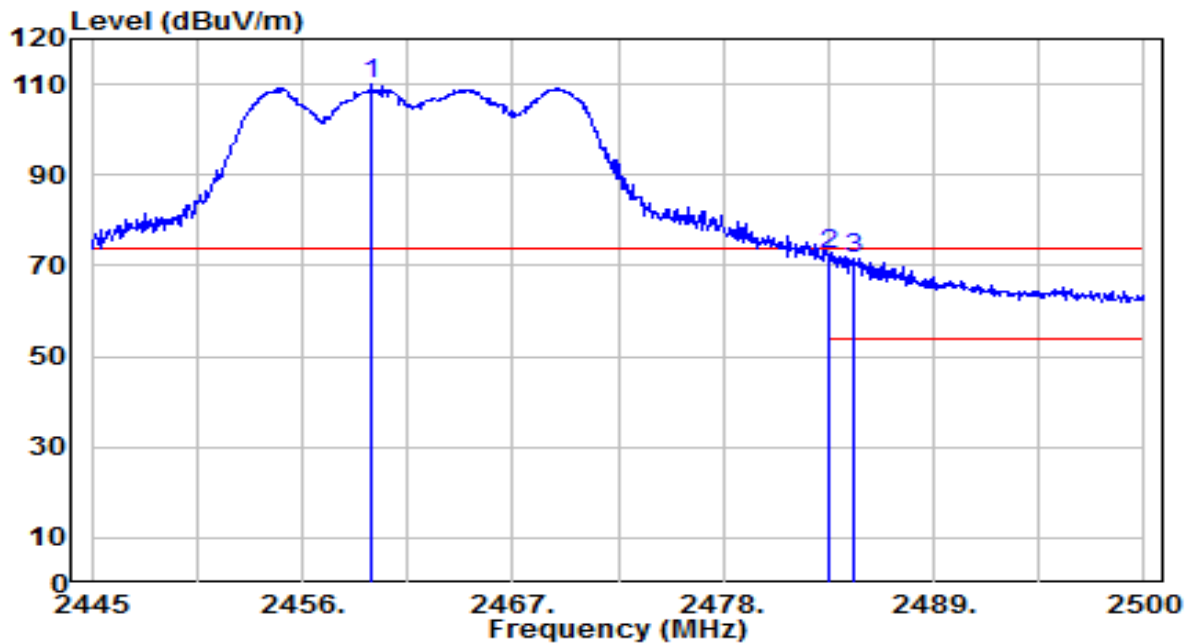


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2387.750	17.40	32.18	49.57	-4.43	54.00	150	200	Average
2	* 2390.000	17.56	32.18	49.74	-4.26	54.00	150	200	Average
3	2408.875	62.86	32.25	95.11	N/A	N/A	150	200	Average

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

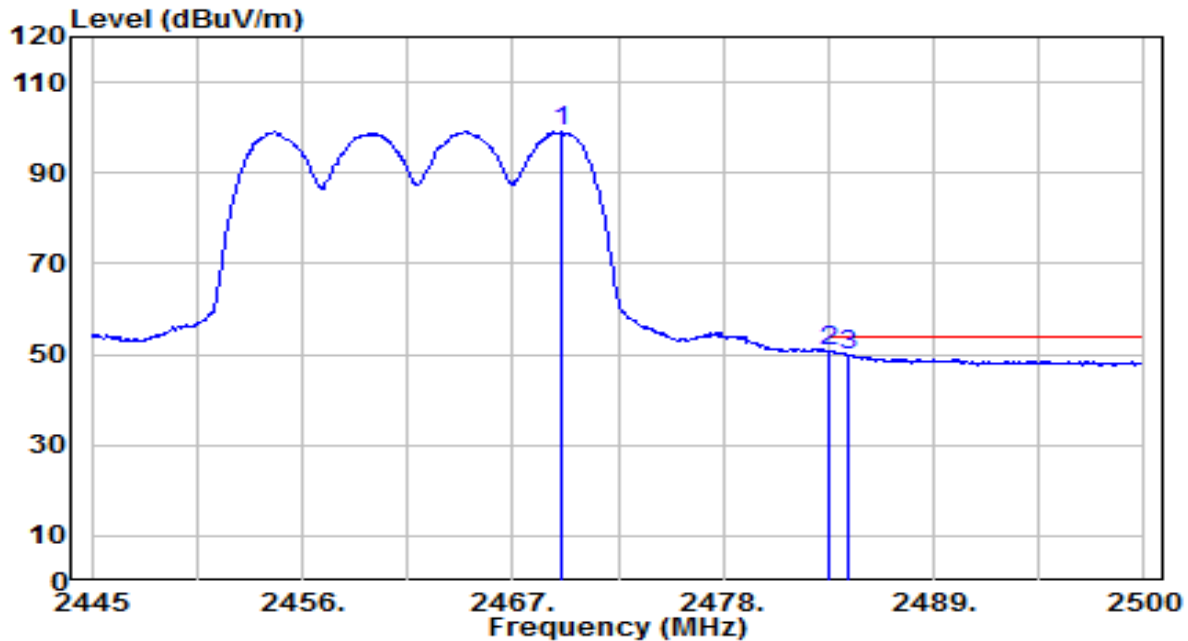


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2459.630	77.39	32.43	109.83	N/A	N/A	220	175	Peak
2	* 2483.500	40.12	32.52	72.64	-1.36	74.00	220	175	Peak
3	2484.820	39.18	32.53	71.71	-2.29	74.00	220	175	Peak

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

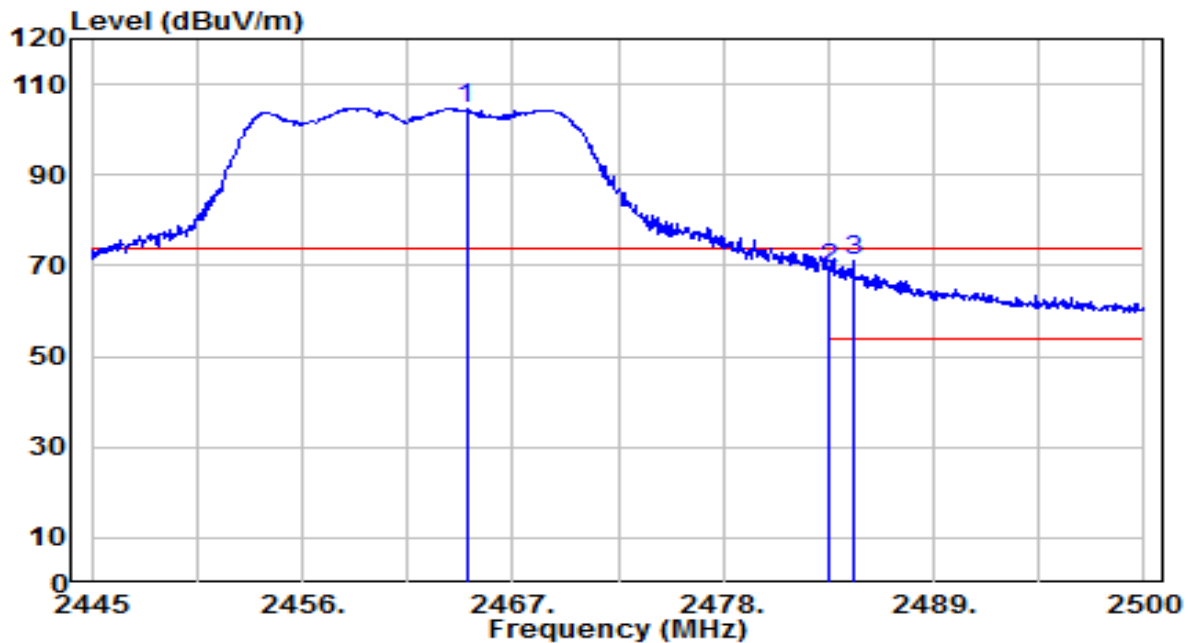


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2469.530	66.61	32.47	99.08	N/A	N/A	220	175	Average
2	* 2483.500	18.28	32.52	50.81	-3.19	54.00	220	175	Average
3	2484.600	17.36	32.52	49.89	-4.11	54.00	220	175	Average

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

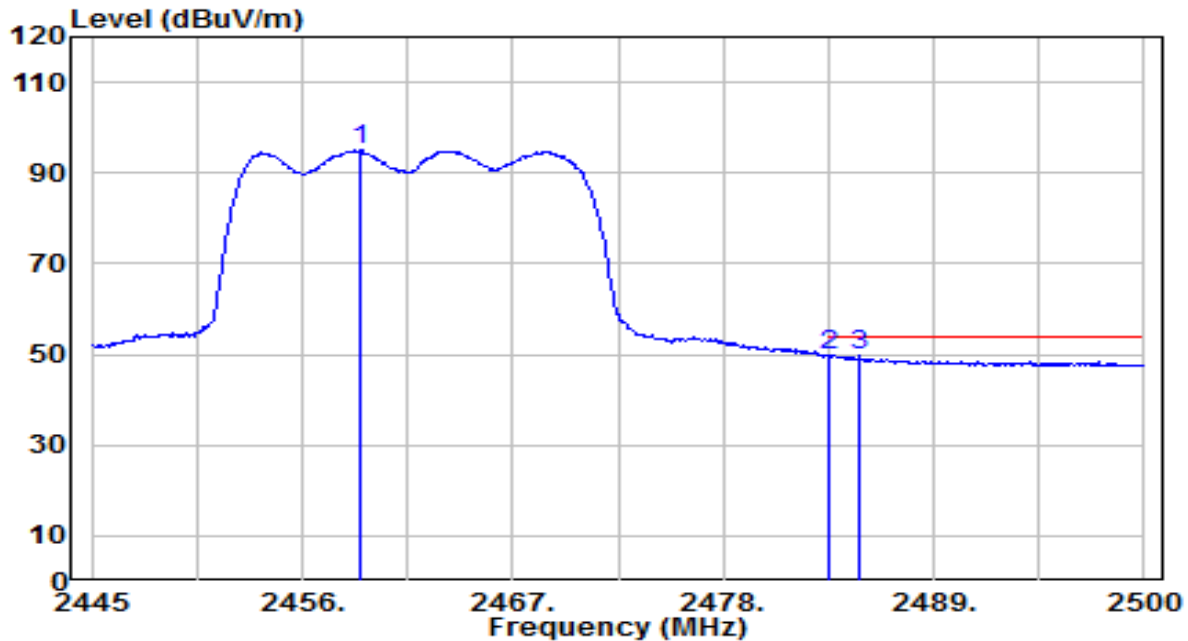


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2464.580	72.29	32.45	104.75	N/A	N/A	135	205	Peak
2	2483.500	36.58	32.52	69.10	-4.90	74.00	135	205	Peak
3	* 2484.820	38.75	32.53	71.27	-2.73	74.00	135	205	Peak

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0+1	Test Voltage	AC 120V/60Hz

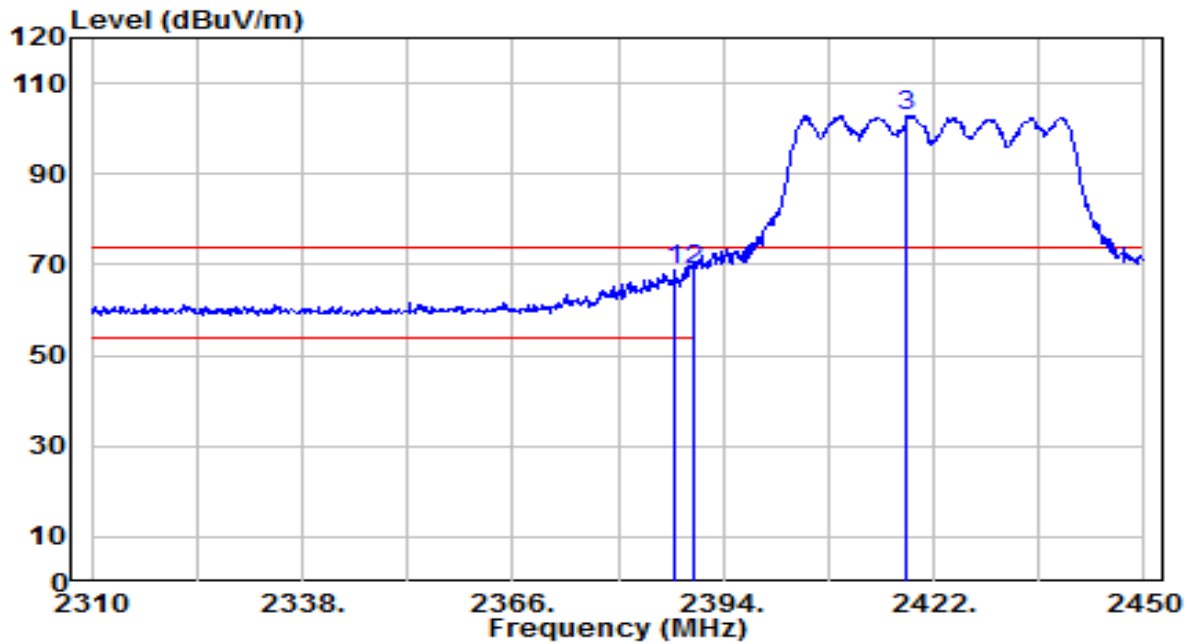


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2459.025	62.53	32.43	94.96	N/A	N/A	135	205	Average
2	2483.500	17.15	32.52	49.67	-4.33	54.00	135	205	Average
3	* 2485.150	17.18	32.53	49.71	-4.29	54.00	135	205	Average

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0+1	Test Voltage	AC 120V/60Hz

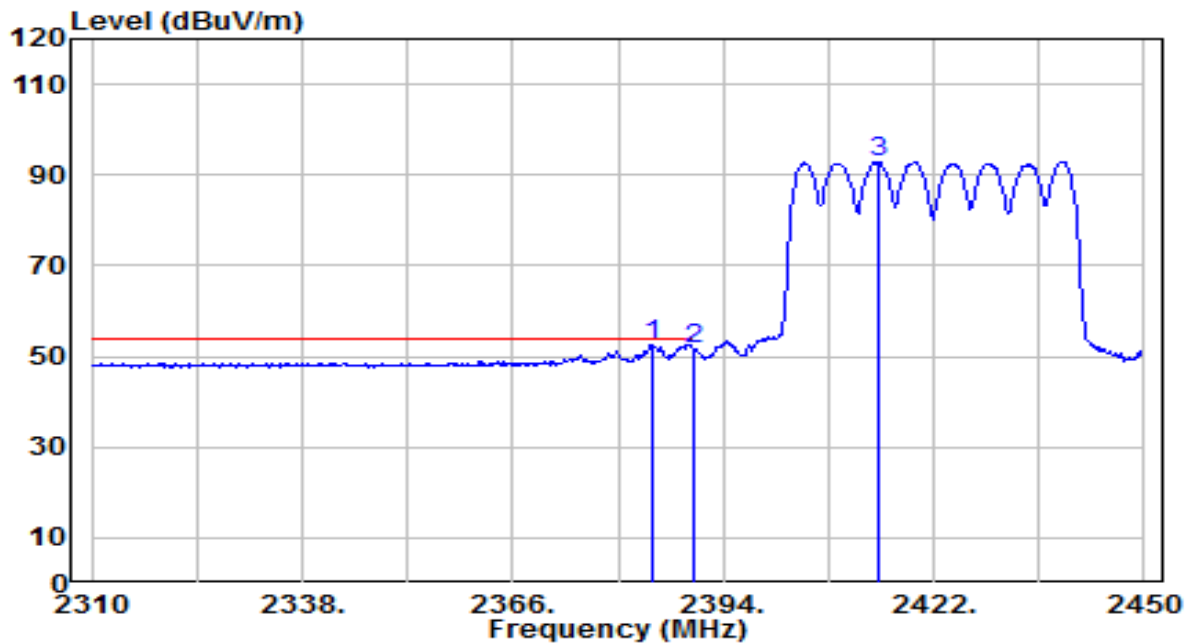


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2387.560	36.59	32.18	68.76	-5.24	74.00	225	180	Peak
2	* 2390.000	36.80	32.18	68.98	-5.02	74.00	225	180	Peak
3	2418.500	70.55	32.29	102.84	N/A	N/A	225	180	Peak

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0+1	Test Voltage	AC 120V/60Hz

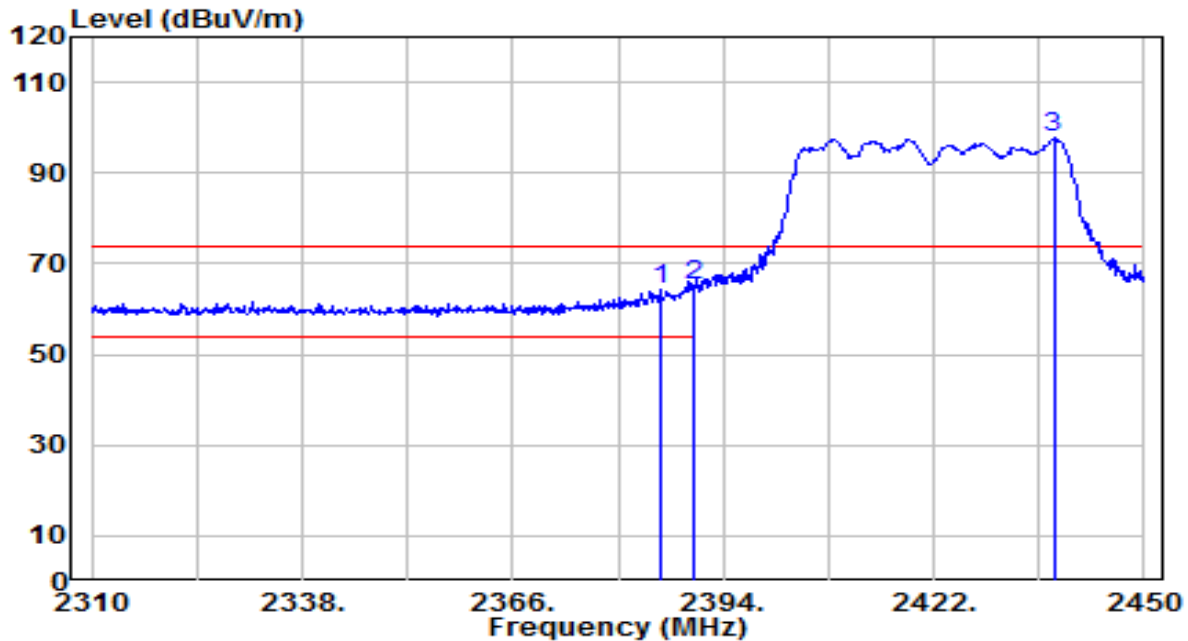


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2384.760	20.58	32.17	52.75	-1.25	54.00	225	180	Average
2		2390.000	19.61	32.18	51.80	-2.20	54.00	225	180	Average
3		2414.580	60.58	32.27	92.85	N/A	N/A	225	180	Average

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0+1	Test Voltage	AC 120V/60Hz

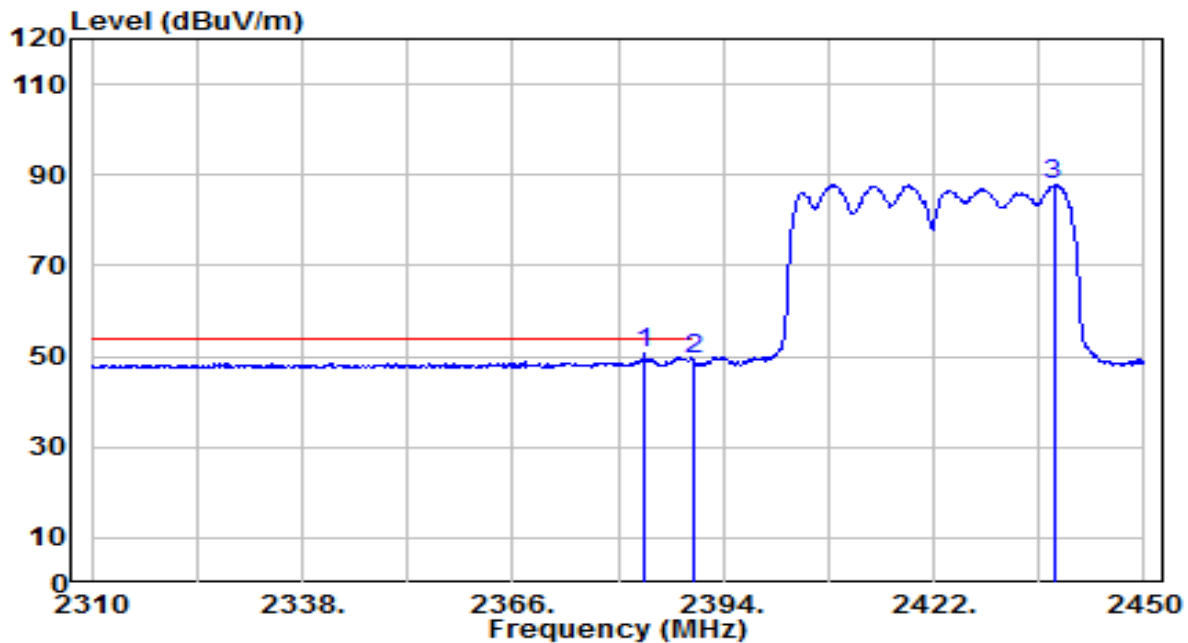


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2385.600	32.07	32.17	64.24	-9.76	74.00	150	200	Peak
2	* 2390.000	33.01	32.18	65.20	-8.80	74.00	150	200	Peak
3	2437.960	65.39	32.36	97.74	N/A	N/A	150	200	Peak

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 3_ANT 0+1	Test Voltage	AC 120V/60Hz

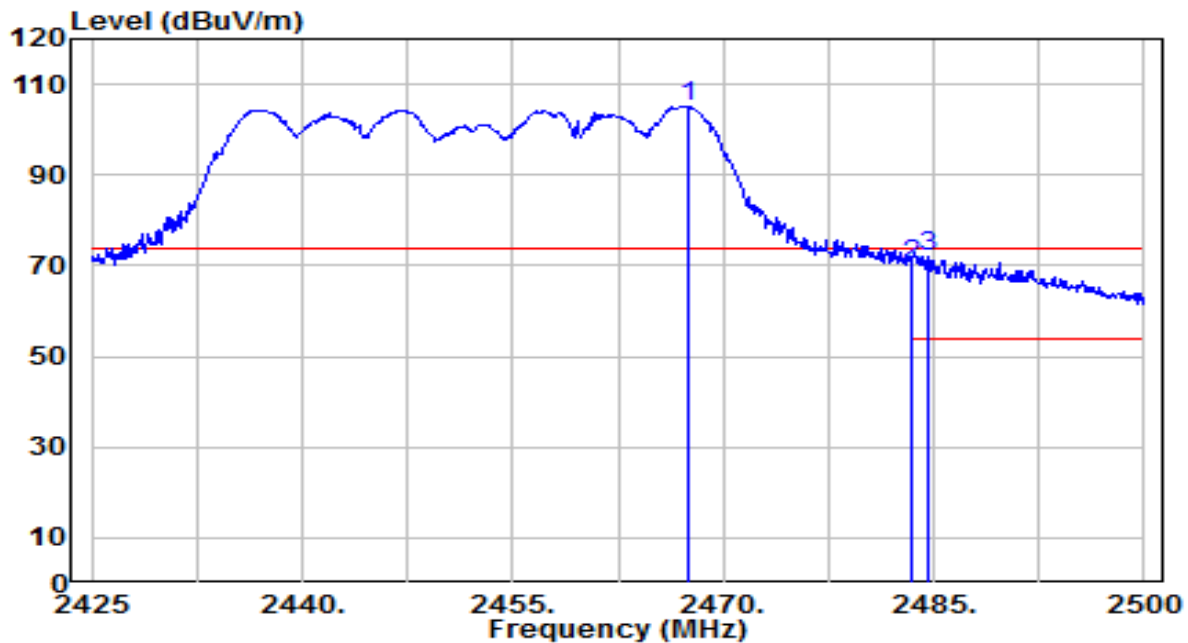


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2383.500	18.34	32.16	50.50	-3.50	54.00	150	200	Average
2		2390.000	17.01	32.18	49.19	-4.81	54.00	150	200	Average
3		2437.960	55.51	32.36	87.86	N/A	N/A	150	200	Average

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 9_ANT 0+1	Test Voltage	AC 120V/60Hz

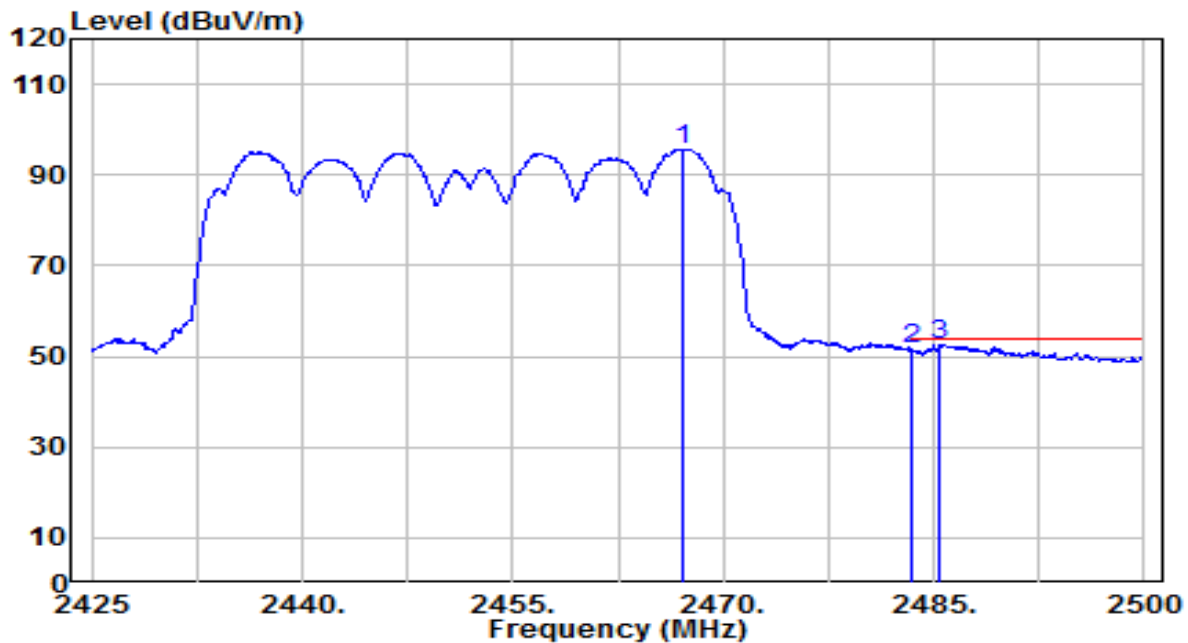


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2467.450	72.56	32.46	105.02	N/A	N/A	220	175	Peak
2	2483.500	37.68	32.52	70.20	-3.80	74.00	220	175	Peak
3	* 2484.625	39.54	32.52	72.06	-1.94	74.00	220	175	Peak

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 9_ANT 0+1	Test Voltage	AC 120V/60Hz

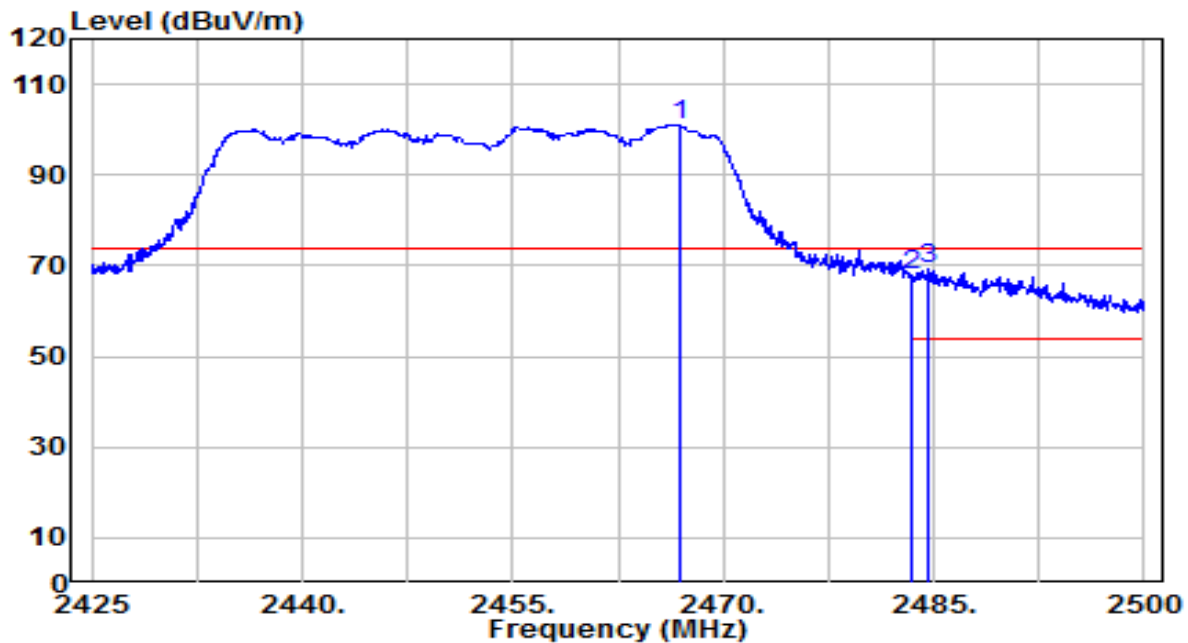


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2467.075	63.30	32.46	95.76	N/A	N/A	220	175	Average
2	2483.500	19.24	32.52	51.76	-2.24	54.00	220	175	Average
3	* 2485.375	20.19	32.53	52.72	-1.28	54.00	220	175	Average

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11n-40MHz_TX_CH 9_ANT 0+1	Test Voltage	AC 120V/60Hz

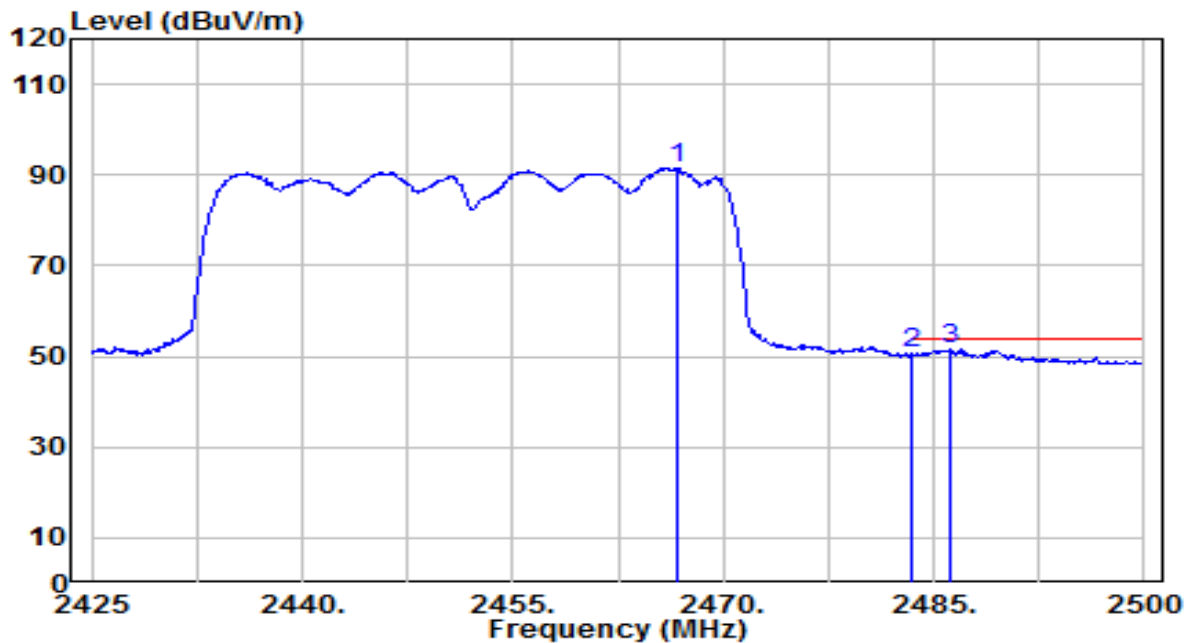


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2466.850	68.62	32.46	101.09	N/A	N/A	135	205	Peak
2	2483.500	35.54	32.52	68.06	-5.94	74.00	135	205	Peak
3	* 2484.625	36.87	32.52	69.40	-4.60	74.00	135	205	Peak

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 8"	Date of Test	2023-12-13
Factor	BBHA 9120D	Temp. / Humidity	23°C /62%
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	2466.775	59.03	32.46	91.49	N/A	N/A	135	205	Average
2	2483.500	18.00	32.52	50.52	-3.48	54.00	135	205	Average
3	* 2486.200	19.27	32.53	51.80	-2.20	54.00	135	205	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

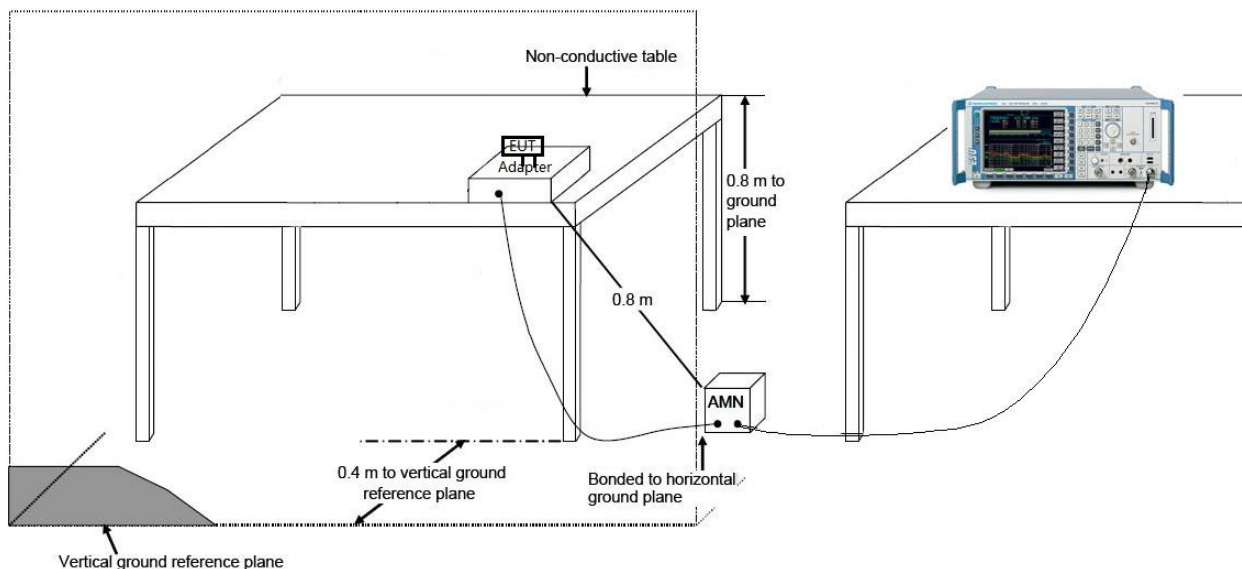
7.8.1. Test Limit

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.

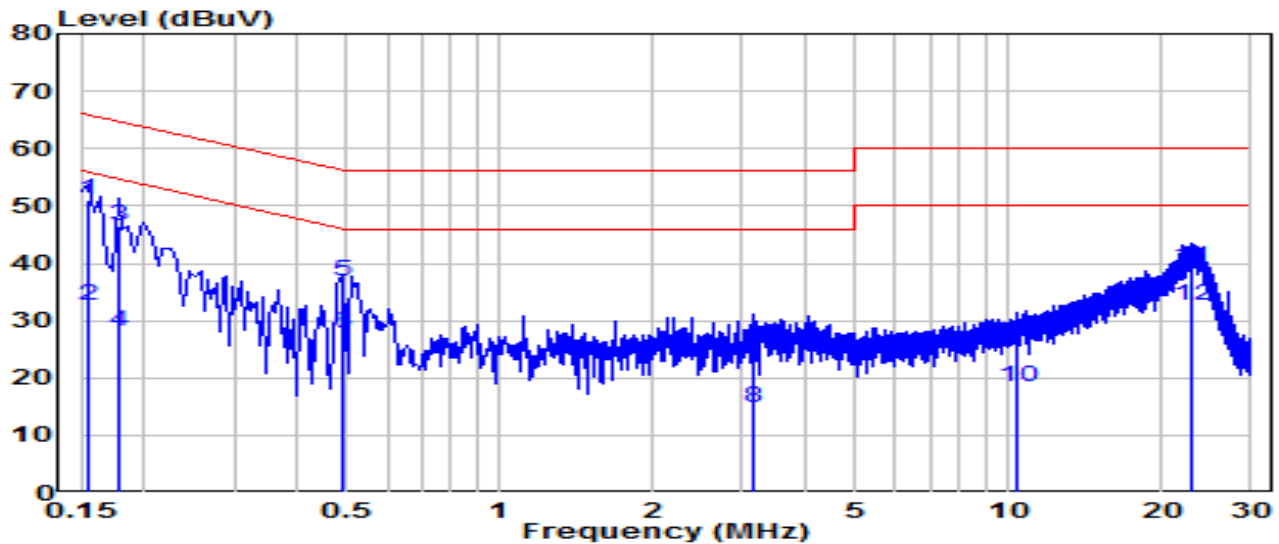
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



7.8.3. Test Result

EUT	Intercom 8"	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

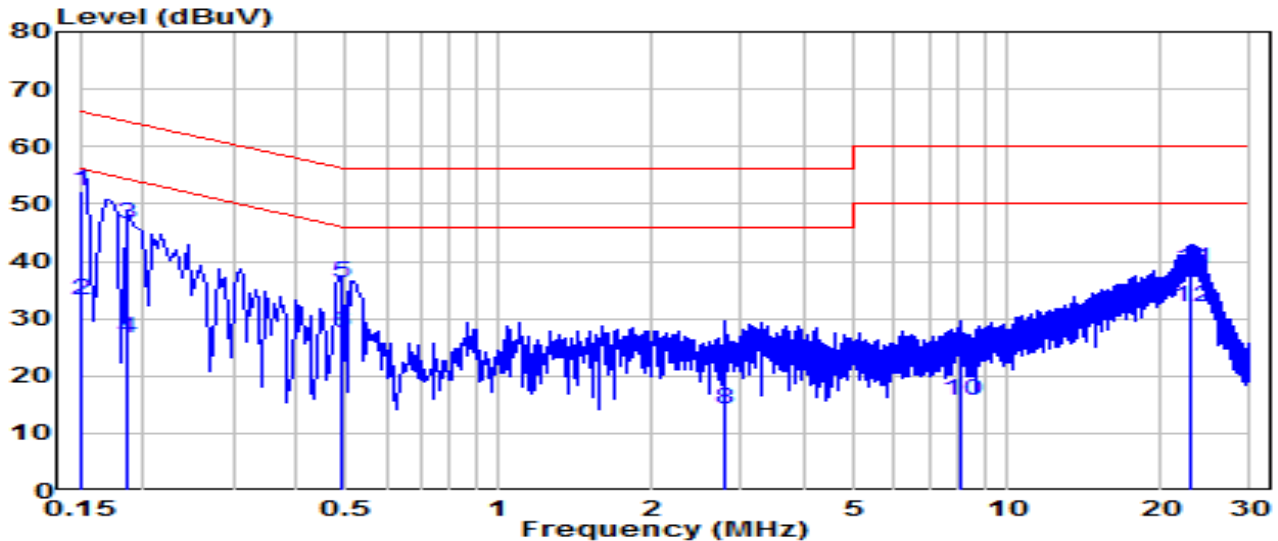


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	*	0.154	41.34	9.62	50.96	-14.79	65.75	QP
2	*	0.154	23.07	9.62	32.69	-23.06	55.75	Average
3		0.177	36.82	9.62	46.44	-18.18	64.63	QP
4		0.177	18.35	9.62	27.97	-26.65	54.63	Average
5		0.492	27.12	9.64	36.76	-19.38	56.13	QP
6		0.492	18.17	9.64	27.82	-18.32	46.13	Average
7		3.156	15.11	9.71	24.82	-31.18	56.00	QP
8		3.156	5.12	9.71	14.83	-31.17	46.00	Average
9		10.341	16.55	9.86	26.41	-33.59	60.00	QP
10		10.341	8.45	9.86	18.32	-31.68	50.00	Average
11		22.877	29.22	9.92	39.14	-20.86	60.00	QP
12		22.877	22.75	9.92	32.67	-17.33	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 8"	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

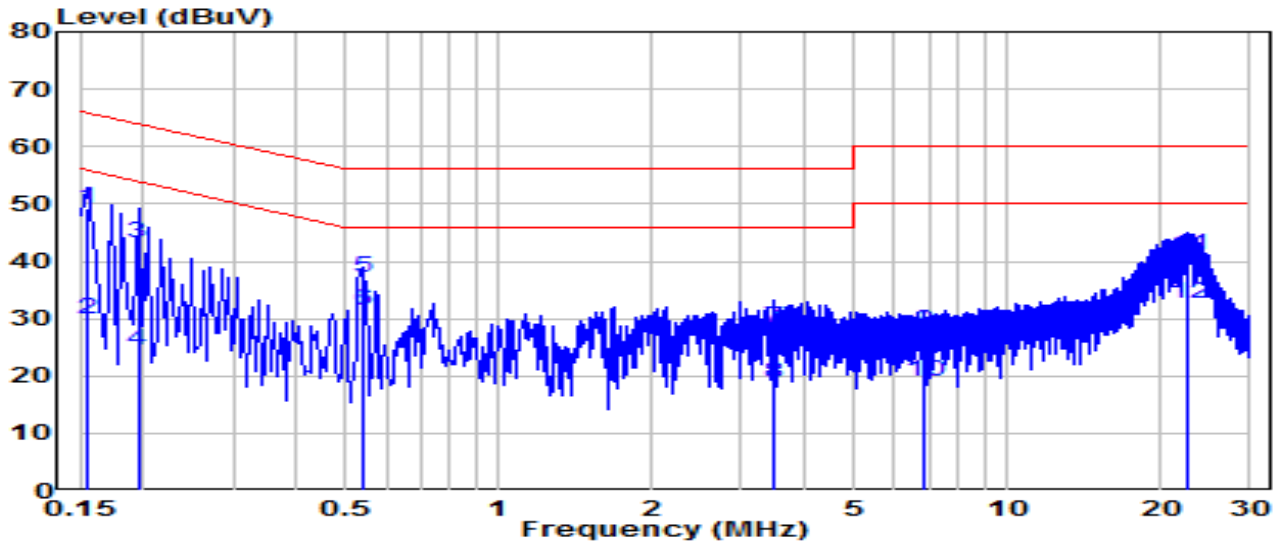


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	*	0.150	42.75	9.62	52.37	-13.63	66.00	QP
2	*	0.150	23.63	9.62	33.25	-22.75	56.00	Average
3		0.186	36.98	9.62	46.60	-17.61	64.21	QP
4		0.186	17.01	9.62	26.63	-27.59	54.21	Average
5		0.492	26.63	9.64	36.27	-19.86	56.13	QP
6		0.492	17.90	9.64	27.54	-18.60	46.13	Average
7		2.773	12.18	9.71	21.88	-34.12	56.00	QP
8		2.773	4.35	9.71	14.06	-31.94	46.00	Average
9		8.101	13.88	9.82	23.71	-36.29	60.00	QP
10		8.101	5.86	9.82	15.68	-34.32	50.00	Average
11		23.084	28.72	10.01	38.73	-21.27	60.00	QP
12		23.084	22.11	10.01	32.12	-17.88	50.00	Average

Note:

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

EUT	Intercom 8"	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

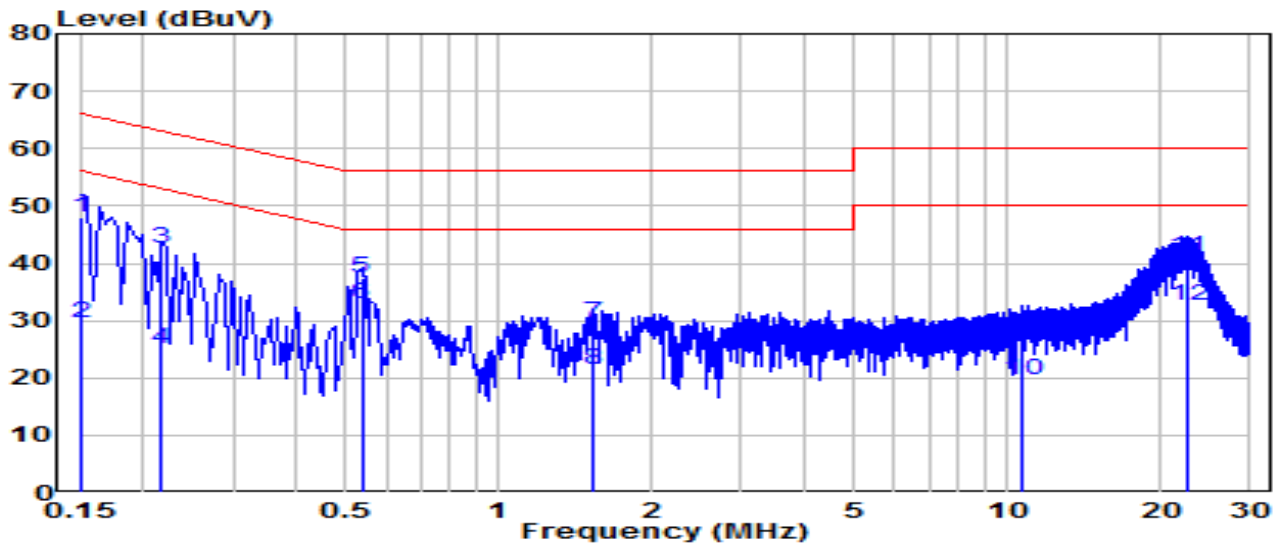


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.154	39.55	9.62	49.17	-16.58	65.75	QP
2	0.154	20.40	9.62	30.02	-25.74	55.75	Average
3	0.195	33.55	9.62	43.17	-20.65	63.82	QP
4	0.195	14.98	9.62	24.60	-29.22	53.82	Average
5	* 0.541	27.63	9.64	37.27	-18.73	56.00	QP
6	* 0.541	21.67	9.64	31.31	-14.69	46.00	Average
7	3.475	18.78	9.72	28.50	-27.50	56.00	QP
8	3.475	8.96	9.72	18.68	-27.32	46.00	Average
9	6.877	17.85	9.79	27.63	-32.37	60.00	QP
10	6.877	9.30	9.79	19.09	-30.91	50.00	Average
11	22.756	31.15	9.92	41.07	-18.93	60.00	QP
12	22.756	22.80	9.92	32.72	-17.28	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 8"	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	38.44	9.62	48.06	-17.94	66.00	QP
2		0.150	20.03	9.62	29.65	-26.35	56.00	Average
3		0.217	32.95	9.62	42.58	-20.34	62.91	QP
4		0.217	15.49	9.62	25.11	-27.80	52.91	Average
5	*	0.537	27.92	9.64	37.57	-18.43	56.00	QP
6	*	0.537	23.32	9.64	32.96	-13.04	46.00	Average
7		1.540	19.76	9.68	29.44	-26.56	56.00	QP
8		1.540	11.83	9.68	21.51	-24.49	46.00	Average
9		10.760	17.56	9.88	27.44	-32.56	60.00	QP
10		10.760	9.71	9.88	19.58	-30.42	50.00	Average
11		22.607	30.96	10.01	40.96	-19.04	60.00	QP
12		22.607	22.59	10.01	32.60	-17.40	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 “2401TWN801-UT” file.

Appendix B : External Photograph

Refer to “2401TWN801-UE” file.

Appendix C : Internal Photograph

Refer to “2401TWN801-UI” file.

————— The End —————