RF MEASUREMENT REPORT

FCC ID	:	2AXJ4P135
APPLICANT	:	TP-Link Corporation Limited
Application Type	:	Certification
Product	:	Smart Wi-Fi Lamp Dimmer
Model No.	:	Tapo P135
Brand Name	:	tp-link
FCC Classification	:	Digital Transmission System (DTS)
FCC Rule Part(s)	:	Part 15.247
Received Date	:	October 6 ,2022
Test Date	:	November 4~11 ,2022

Tested By : Owen Tsai
(Owen Tsai)

Reviewed By : Paddy Chen
(Paddy Chen)

Approved By : Chenz Ker
(Chenz Ker)

Testing Laboratory
3261

The test results relate only to the samples tested.
This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.
The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2210TW0105-U2	1.0	Original Report	2023-01-04	Valid

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General Information

Applicant	TP-Link Corporation Limited
Applicant Address	Room 901, 9/F., New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hongkong
Manufacturer	TP-Link Corporation Limited
Manufacturer Address	Room 901, 9/F., New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hongkong
Test Site	MRT Technology (Taiwan) Co., Ltd
Test Site Address	No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)
MRT FCC Registration No.	291082
FCC Rule Part(s)	Part 15.247

Test Facility / Accreditations

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

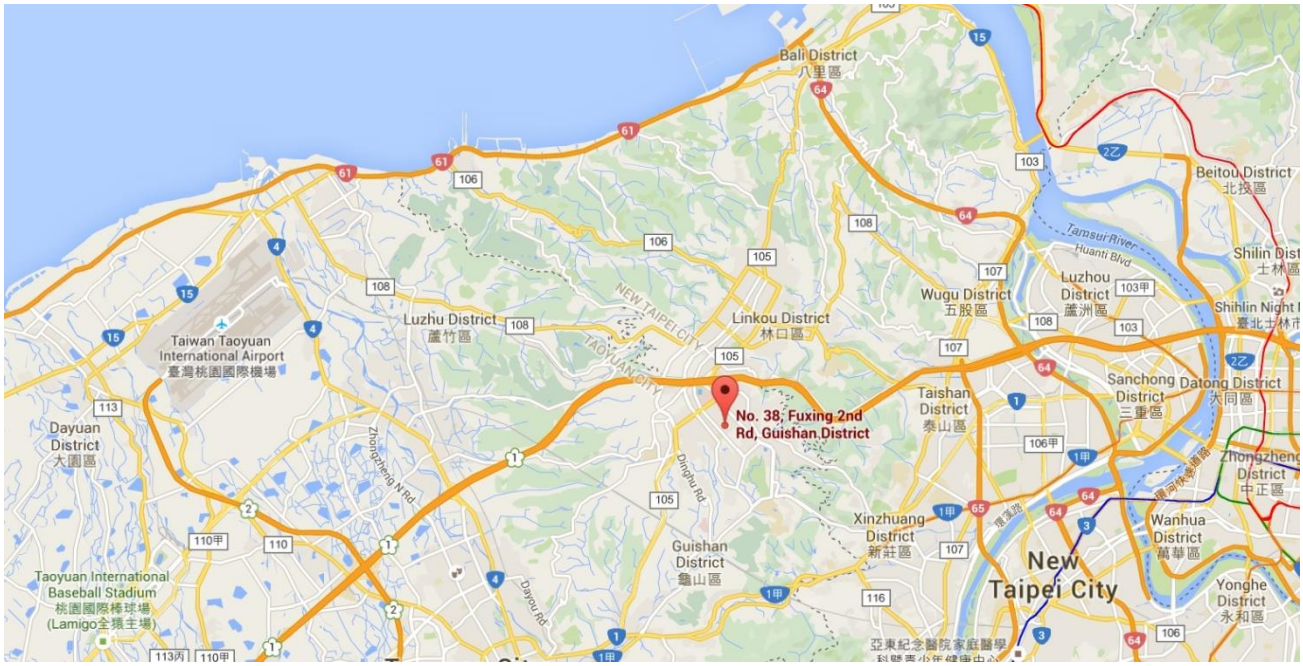
1. INTRODUCTION

1.1. Scope

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

1.2. MRT Test Location

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



2. PRODUCT INFORMATION

2.1. Feature of Equipment under Test

Product Name:	Smart Wi-Fi Lamp Dimmer
Model No.:	Tapo P135
Brand Name:	tp-link
Wi-Fi Specification:	802.11b/g/n
Bluetooth Specification	Bluetooth Single Mode: V4.2
EUT Identification No.:	#1-4 (Conducted) #1-3 (Radiated)
Working Voltage	AC100-120V ~ 50/60Hz

2.2. Product Specification Subjective to this Report

Frequency Range:	802.11b/g/n-HT20: 2412 ~ 2462MHz
Channel Number:	802.11b/g/n-HT20: 11
Type of Modulation:	802.11b: DSSS 802.11g/n: OFDM
Data Rate:	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 72.2Mbps
Antenna Type	PIFA
Antenna Gain	1.49dBi

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

2.3. Working Frequencies for this report

802.11b/g/n-HT20

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

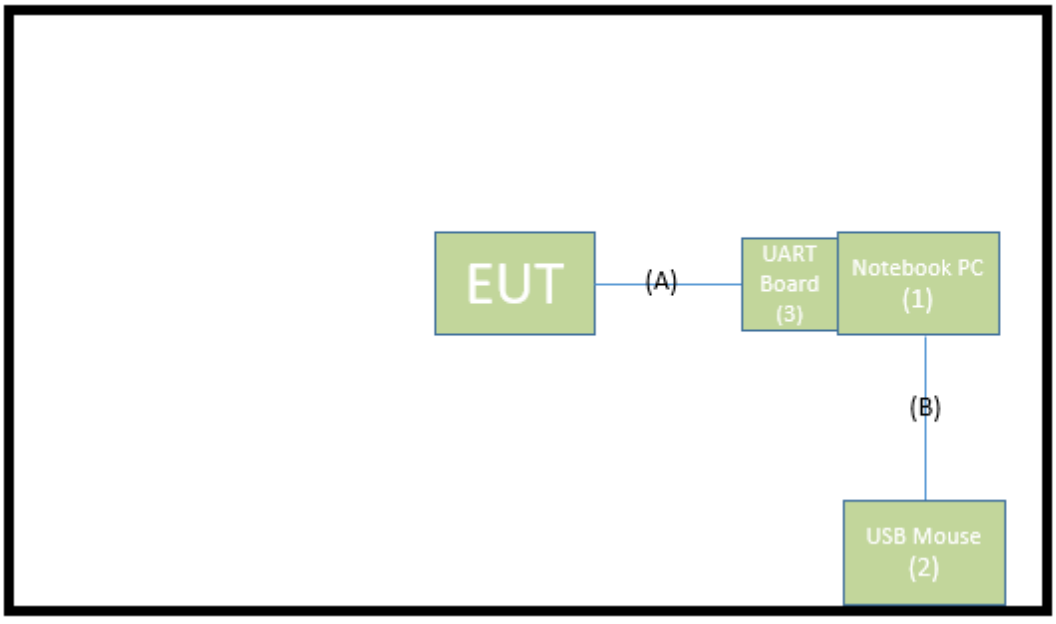
2.4. Test Mode

Test Mode	Mode 1: Transmit by 802.11b (1Mbps)
	Mode 2: Transmit by 802.11g (6Mbps)
	Mode 3: Transmit by 802.11n-HT20 (MCS0)

2.5. Configuration of Test System

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

Connection Diagram



Signal Cable Type		Signal Cable Description
A	Signal Cable	Non-Shielded, 1.0m
B	USB Mouse Cable	Shielded, 1.8m

2.6. Test System Details

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

No.	Product	Brand	Model No.	Serial No.	Power Cord
1	Notebook PC	Lenovo	T450	N/A	Non-shielded, 0.8m
2	USB Mouse	Logitech	M90	N/A	N/A
3	UART Board	WAVGAT	CH-670	N/A	N/A

2.7. Description of Test Software

The test utility software used during testing was “AmebaZ2_mptool”, the version is ver 1v3.
Note: Final power setting please refer to operational description.

2.8. Applied Standards

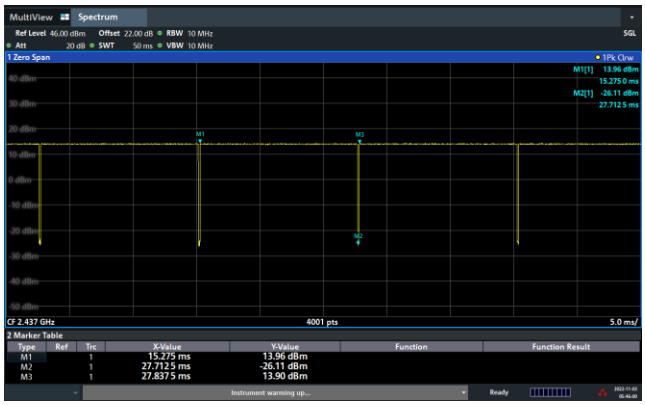
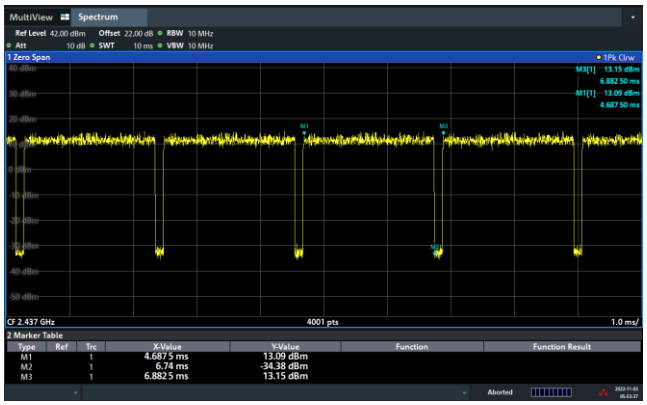
According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15.247
- KDB 558074 D01v05r02
- ANSI C63.10-2013

2.9. Duty Cycle

2.4GHz WLAN (DTS) operation is possible in 20MHzchannel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 10MHz, VBW = 10MHz. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Test Mode	Duty Cycle
802.11b	99.00%
802.11g	93.51%
802.11n-HT20	92.81%

Duty Cycle	
802.11b	802.11g
	
802.11n-HT20	
	

2.10. Test Configuration

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

2.11. EMI Suppression Device(s)/Modifications

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

2.12. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

3. DESCRIPTION of TEST

3.1. Evaluation Procedure

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

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.
The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.
Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst-case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.
An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

3.3. Radiated Emissions

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

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

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

4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

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

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

Conclusion:

The unit complies with the requirement of §15.203.

5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Two-Line V-Network	R&S	ENV216	MRTTWA00019	1 year	2023/3/7
Two-Line V-Network	R&S	ENV216	MRTTWA00020	1 year	2023/4/20
EMI Test Receiver	R&S	ESR3	MRTTWA00045	1 year	2023/5/9

Radiated Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00001	1 year	2022/12/4
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2023/3/9
Signal Analyzer	R&S	FSVA3044	MRTTWA00092	1 year	2023/6/23
Acitve Loop Antenna	Schwarzbeck	FMZB 1519B	MRTTWA00002	1 year	2023/5/24
Broadband Hornantenna	RFSPIN	DRH18-E	MRTTWA00087	1 year	2023/5/10
Breitband Hornantenna	Schwarzbeck	BBHA 9170	MRTTWA00004	1 year	2023/3/29
Broadband Preamplifier	EMC Instruments corporation	EMC118A45SE	MRTTWA00088	1 year	2023/5/9
Broadband Preamplifier	SCHWARZBECK	BBV 9718	MRTTWA00005	1 year	2023/3/30
Cable	HUBERSUHNER	SF106	MRTTWE00034	1 year	2023/6/27

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
X-Series USB Peak and Average Power Sensor	KEYSIGHT	U2021XA	MRTTWA00014	1 year	2023/4/20
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2023/10/5
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2023/7/19
Attenuator	WTI	218FS-20	MRTTWE00026	1 year	2022/11/18
Attenuator	WTI	218FS-10	MRTTWE00027	1 year	2023/6/15
Attenuator	WTI	218FS-06	MRTTWE00028	1 year	2023/6/15
Temperature & Humidity Chamber	TEN BILLION	TTH-B3UP	MRTTWA00036	1 year	2023/6/14
DIVA PLUS Funk-Wetterstation	TFA	35.1083	MRTTWA00050	1 year	2023/6/16

Software	Version	Function
e3	9.160520a	EMI Test Software

6. MEASUREMENT UNCERTAINTY

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

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

7. TEST RESULT

7.1. Summary

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

Notes:

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

7.2. 6dB Bandwidth Measurement

7.2.1.Test Limit

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

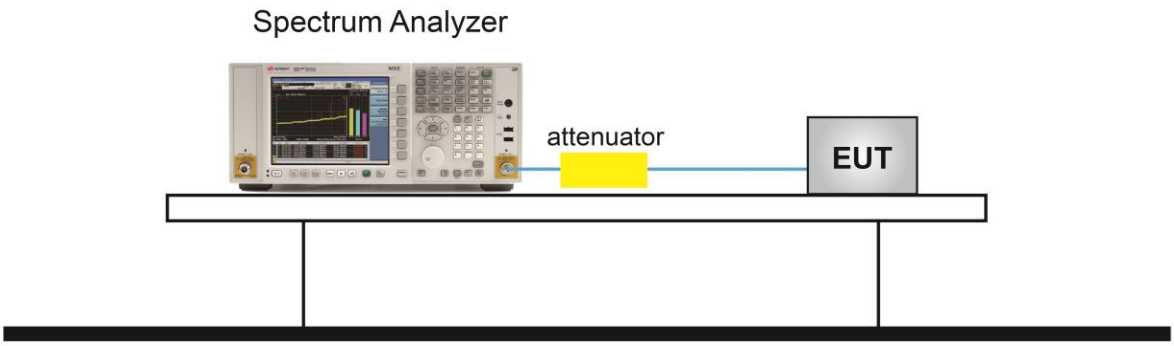
7.2.2.Test Procedure used

ANSI C63.10 2013 - Section 6.9.3, 11.8

7.2.3.Test Setting

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

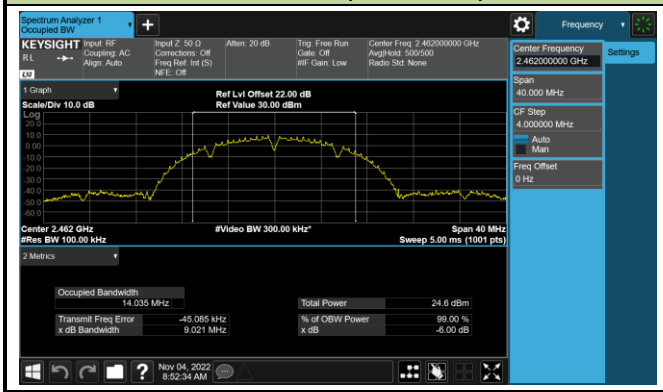
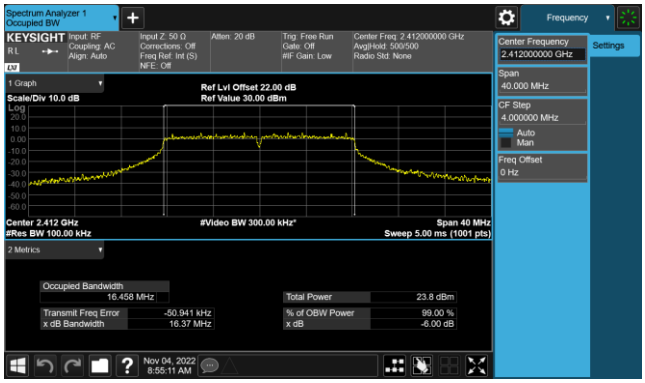
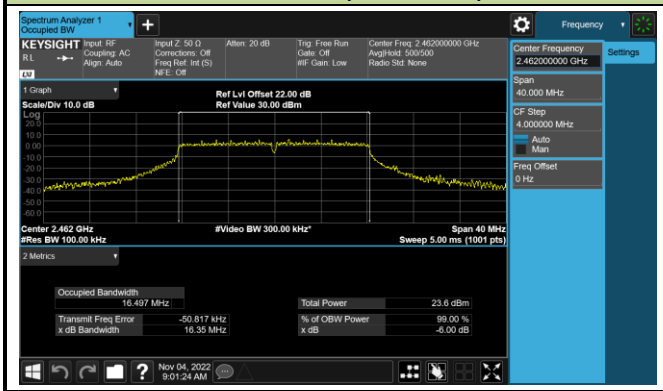
7.2.4.Test Setup

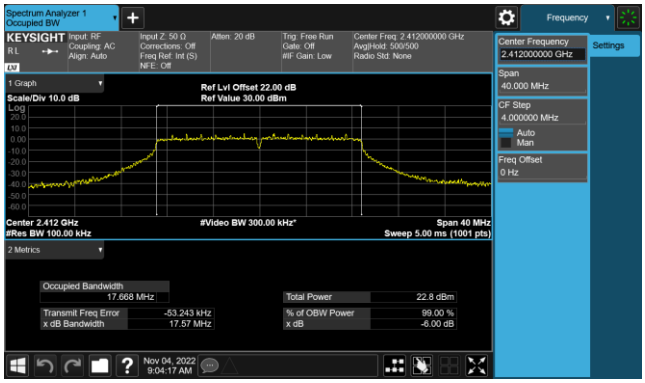
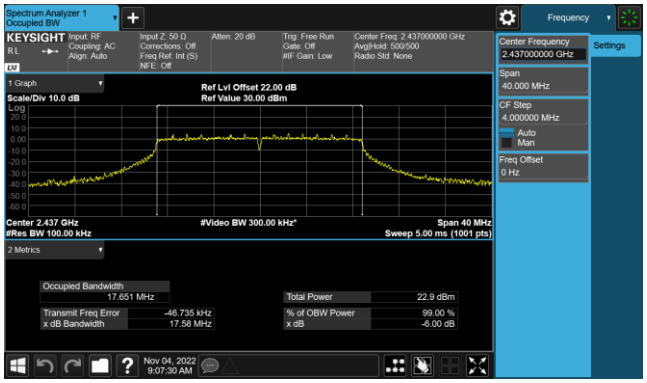
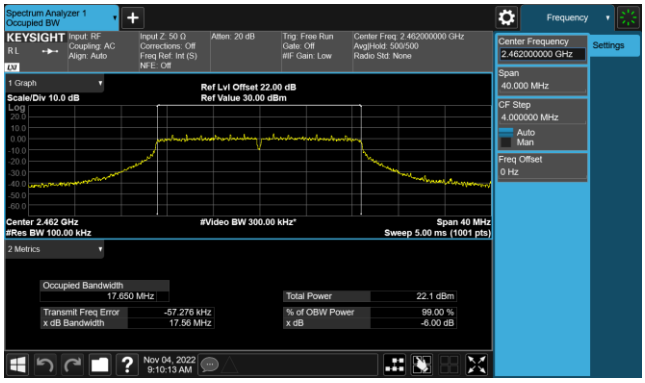


7.2.5.Test Result

Product	Smart Wi-Fi Lamp Dimmer	Temperature	25°C
Test Engineer	Jay	Relative Humidity	54%
Test Site	SR5	Test Date	2022/11/4

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	1Mbps	01	2412	9.049	≥ 0.5	Pass
802.11b	1Mbps	06	2437	8.562	≥ 0.5	Pass
802.11b	1Mbps	11	2462	9.021	≥ 0.5	Pass
802.11g	6Mbps	01	2412	16.370	≥ 0.5	Pass
802.11g	6Mbps	06	2437	16.370	≥ 0.5	Pass
802.11g	6Mbps	11	2462	16.350	≥ 0.5	Pass
802.11n-HT20	MCS0	01	2412	17.570	≥ 0.5	Pass
802.11n-HT20	MCS0	06	2437	17.580	≥ 0.5	Pass
802.11n-HT20	MCS0	11	2462	17.560	≥ 0.5	Pass

802.11b 6dB Bandwidth	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	
	
802.11g 6dB Bandwidth	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	
	

802.11n-HT20 6dB Bandwidth	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	
	

7.3. Output Power Measurement

7.3.1.Test Limit

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

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

7.3.2.Test Procedure Used

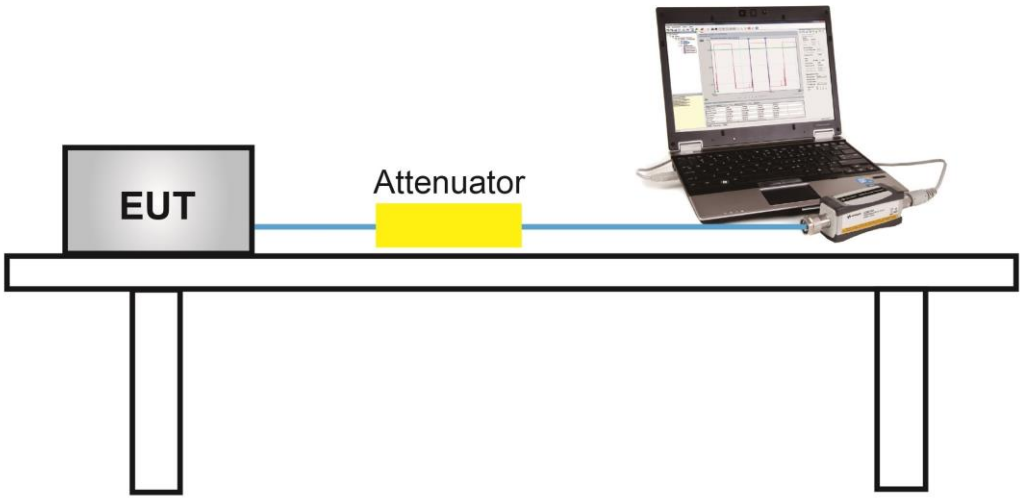
ANSI C63.10 -2013 - Section 11.9.2.3.2

7.3.3.Test Setting

Average Power Measurement

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

7.3.4.Test Setup



7.3.5.Test Result

Product	Smart Wi-Fi Lamp Dimmer	Temperature	25°C
Test Engineer	Jay	Relative Humidity	54%
Test Site	SR5	Test Date	2022/11/4

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)	Limit (dBm)	Result
802.11b	1Mbps	01	2412	18.34	≤ 30.00	Pass
802.11b	1Mbps	06	2437	18.28	≤ 30.00	Pass
802.11b	1Mbps	11	2462	18.38	≤ 30.00	Pass
802.11g	6Mbps	01	2412	18.32	≤ 30.00	Pass
802.11g	6Mbps	06	2437	18.35	≤ 30.00	Pass
802.11g	6Mbps	11	2462	18.24	≤ 30.00	Pass
802.11n-HT20	MCS0	01	2412	17.29	≤ 30.00	Pass
802.11n-HT20	MCS0	06	2437	17.36	≤ 30.00	Pass
802.11n-HT20	MCS0	11	2462	16.61	≤ 30.00	Pass

7.4. Power Spectral Density Measurement

7.4.1.Test Limit

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

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

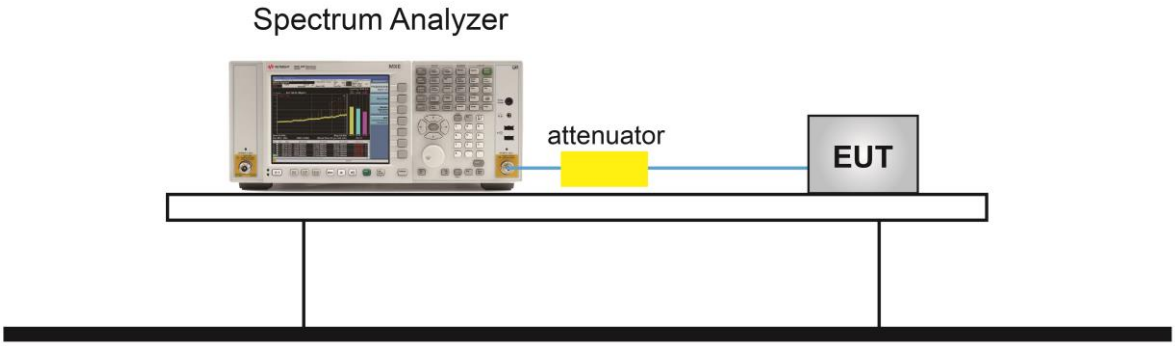
7.4.2.Test Procedure Used

ANSI C63.10 - 2013 Section 11.10.5

7.4.3.Test Setting

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

7.4.4.Test Setup



7.4.5.Test Result

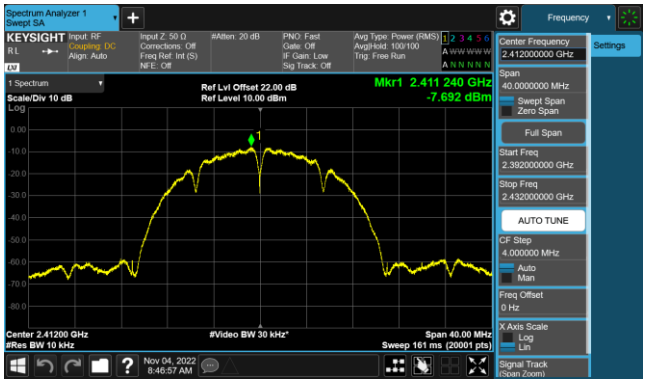
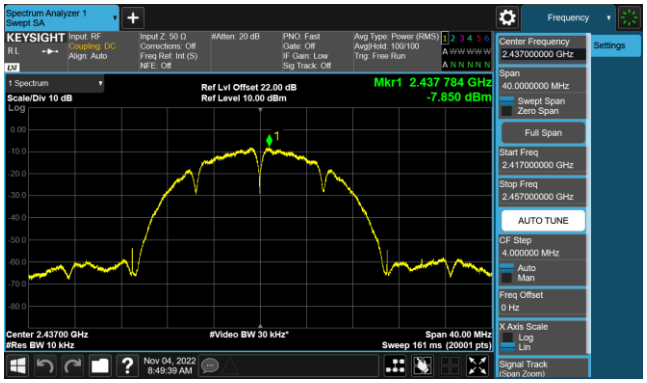
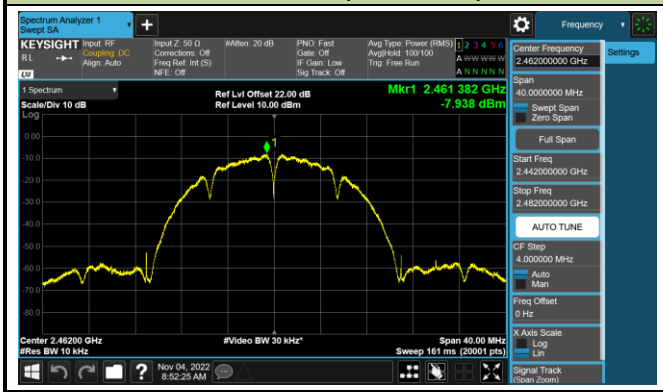
Product	Smart Wi-Fi Lamp Dimmer	Temperature	25°C
Test Engineer	Jay	Relative Humidity	54%
Test Site	SR5	Test Date	2022/11/4

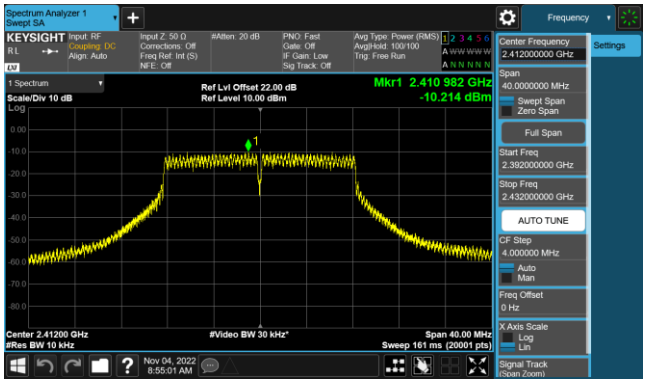
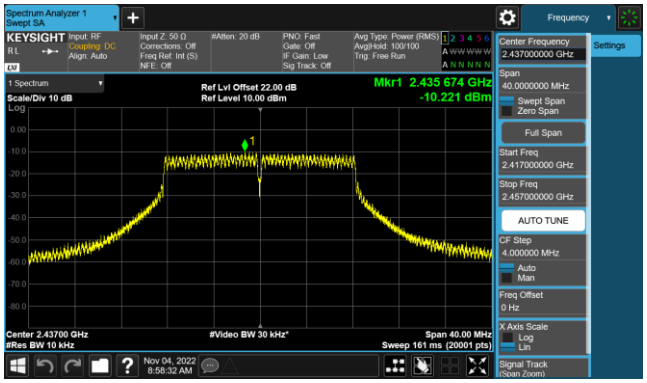
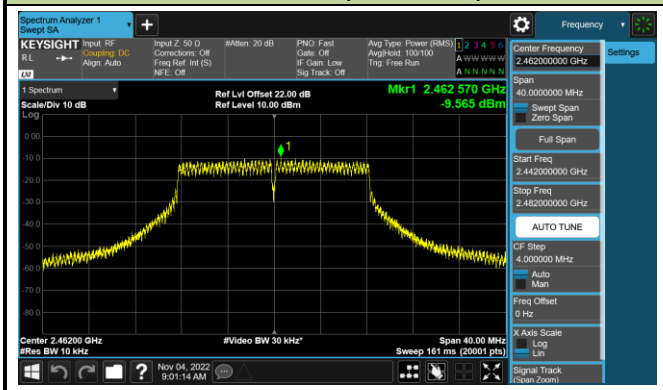
Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	PSD (dBm/ 10kHz)	Duty Cycle (%)	Total PSD (dBm/ 10kHz)	Limit (dBm/ 3kHz)	Result
802.11b	1Mbps	01	2412	-7.692	99.00%	-7.692	≤ 8.00	Pass
802.11b	1Mbps	06	2437	-7.850	99.00%	-7.850	≤ 8.00	Pass
802.11b	1Mbps	11	2462	-7.938	99.00%	-7.938	≤ 8.00	Pass
802.11g	6Mbps	01	2412	-10.214	93.51%	-9.923	≤ 8.00	Pass
802.11g	6Mbps	06	2437	-10.221	93.51%	-9.930	≤ 8.00	Pass
802.11g	6Mbps	11	2462	-9.565	93.51%	-9.274	≤ 8.00	Pass
802.11n-HT20	MCS0	01	2412	-11.035	92.81%	-10.711	≤ 8.00	Pass
802.11n-HT20	MCS0	06	2437	-11.068	92.81%	-10.744	≤ 8.00	Pass
802.11n-HT20	MCS0	11	2462	-10.989	92.81%	-10.665	≤ 8.00	Pass

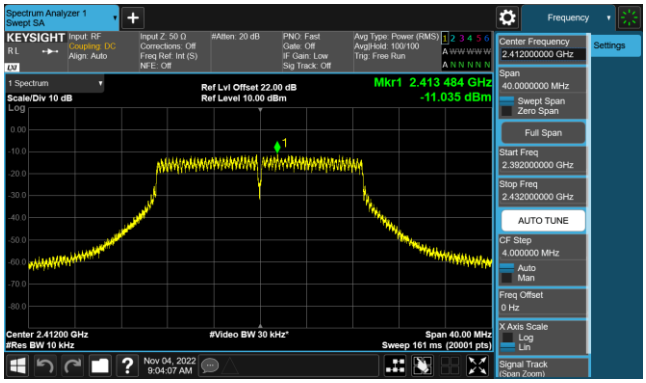
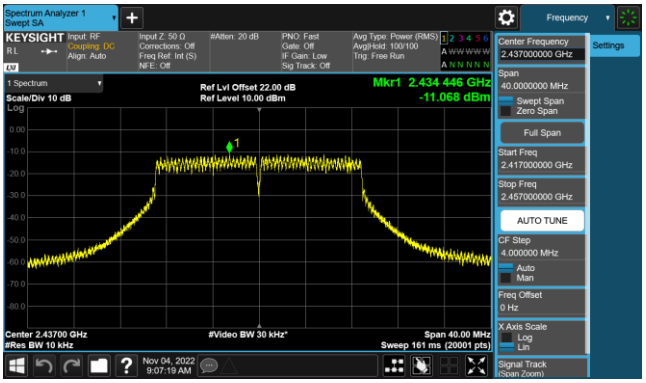
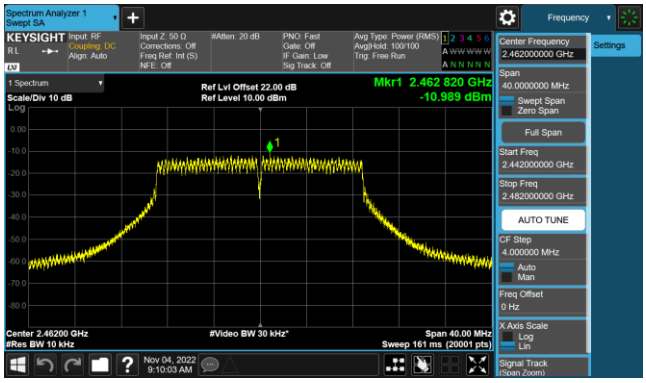
Note:

When EUT duty cycle ≥ 98%, Total AVGPSD = PSD.

When EUT duty cycle < 98%, Total AVGPSD = PSD + 10*log (1/Duty Cycle).

802.11b AVGPSD	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	
	

802.11g AVGPSD	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	
	

802.11n-HT20 AVGPSD	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	
	

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

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 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on RF conducted measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

7.5.2.Test Procedure Used

ANSI C63.10-2013 - Section 11.11

7.5.3.Test Setting

Reference level measurement

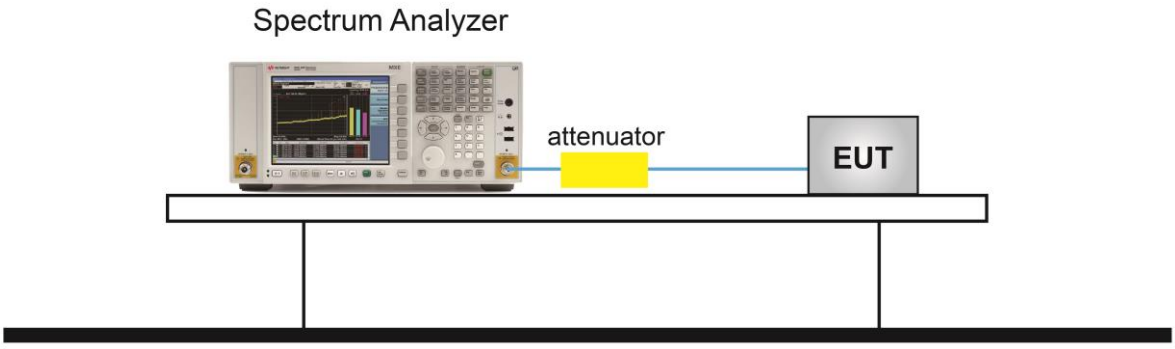
1. Set instrument center frequency to DTS channel center frequency
2. Set the span to ≥ 1.5 times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW ≥ 3 x RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

Emission level measurement

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

7. The trace was allowed to stabilize

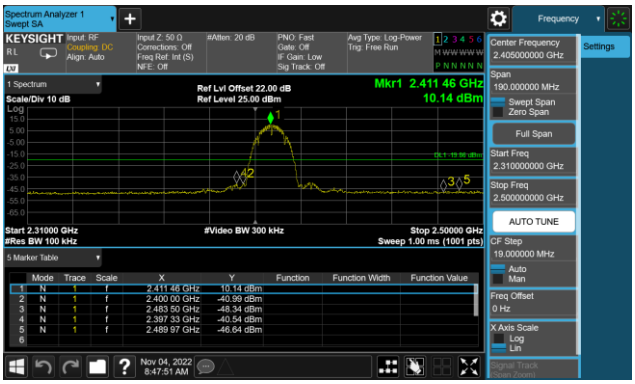
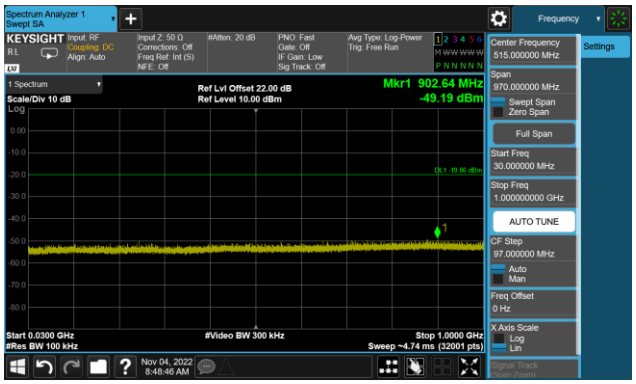
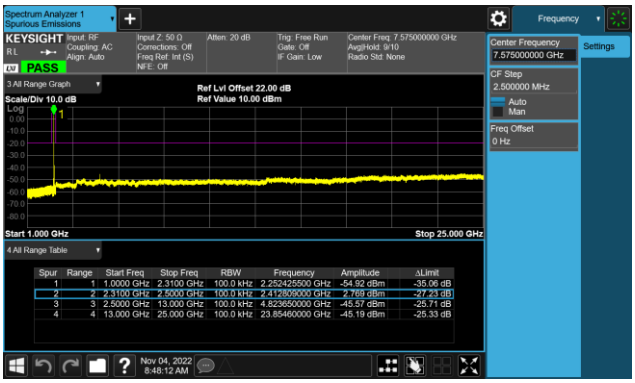
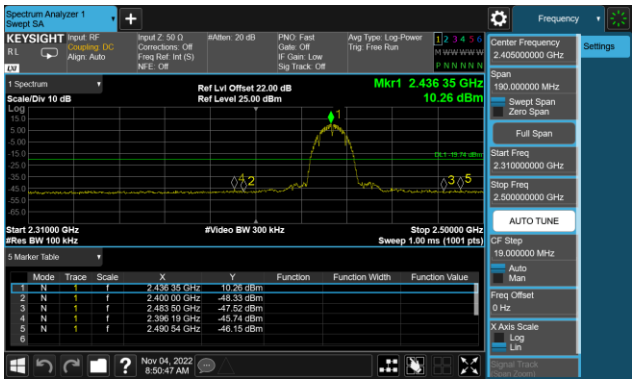
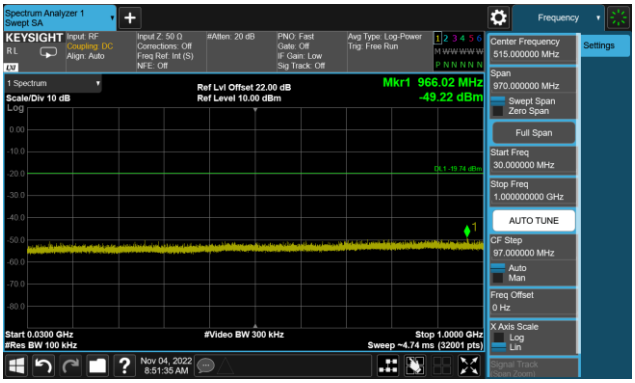
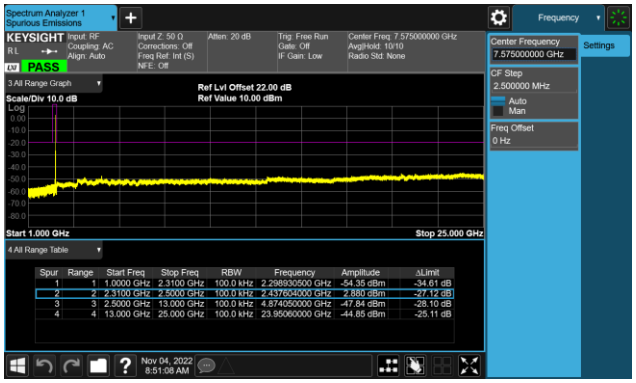
7.5.4.Test Setup

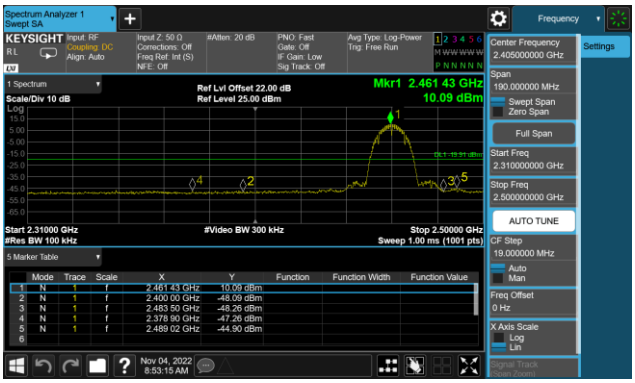
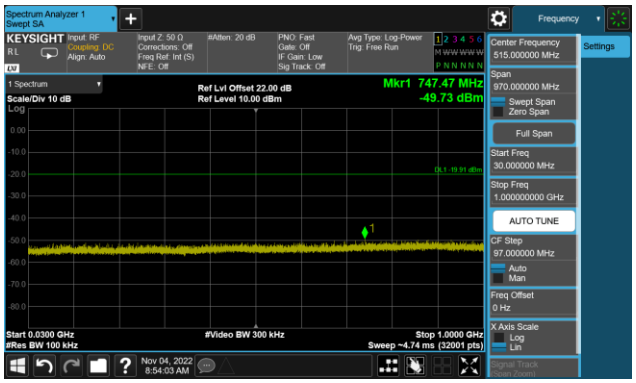
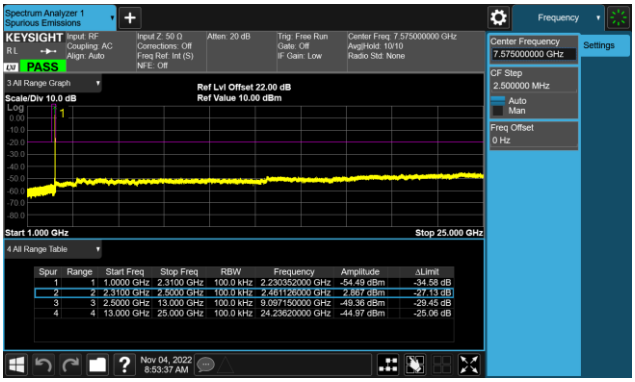
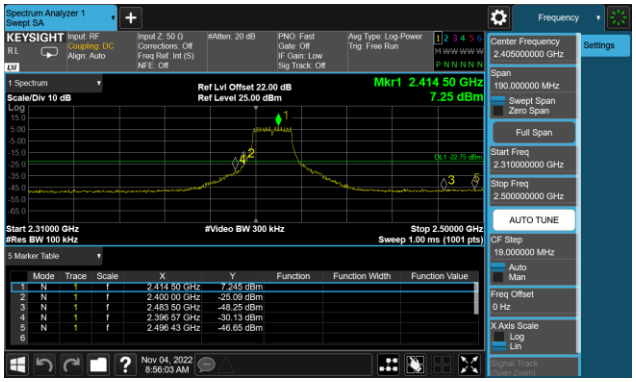
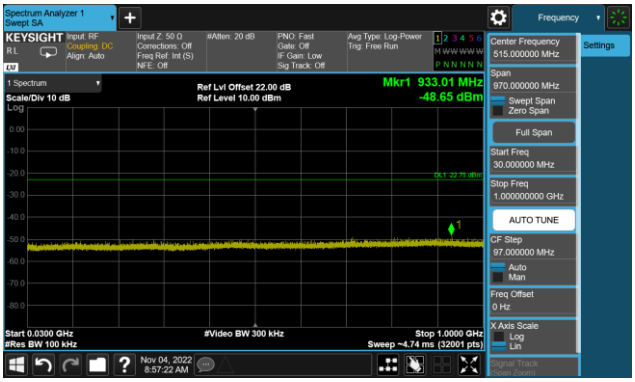
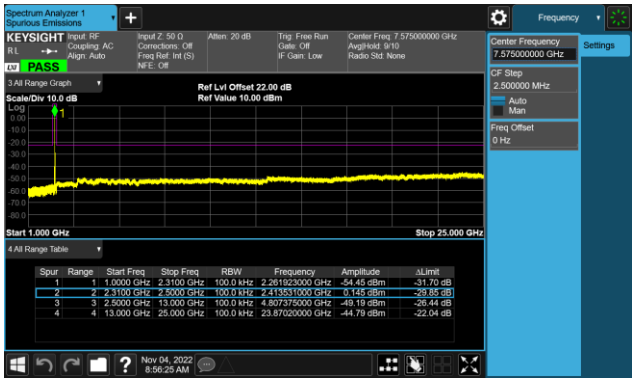


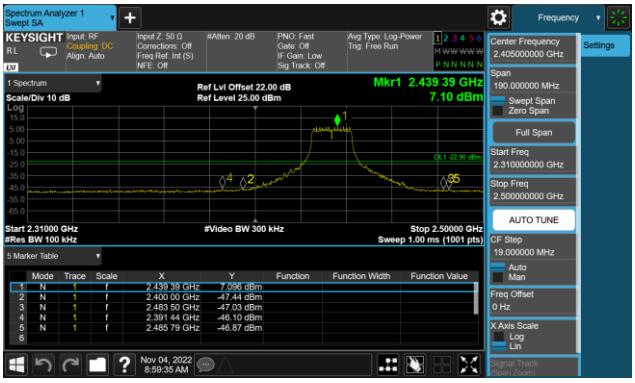
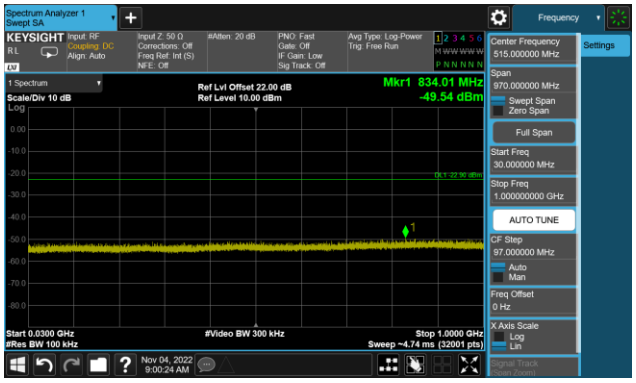
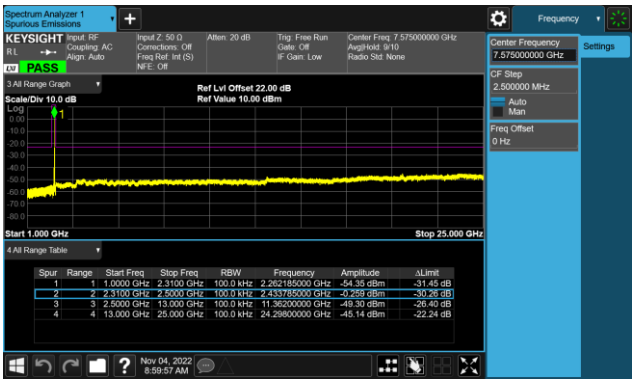
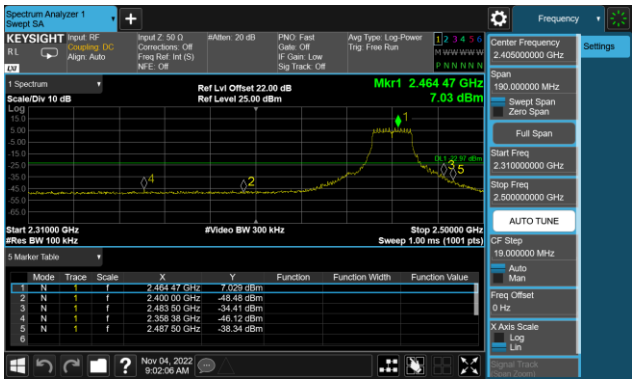
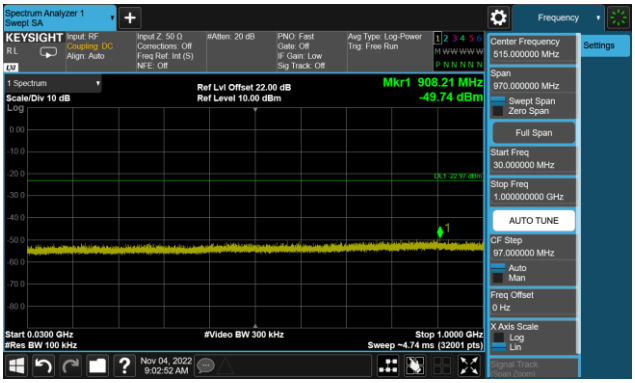
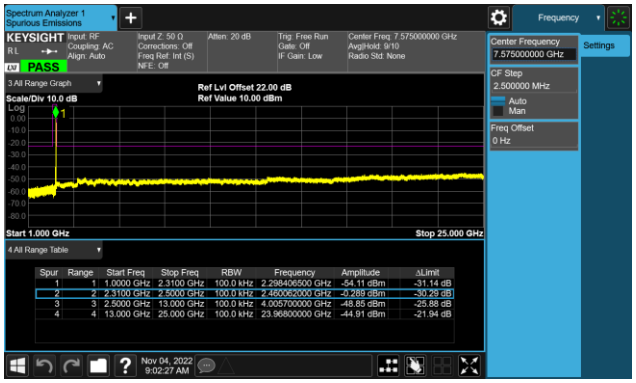
7.5.5.Test Result

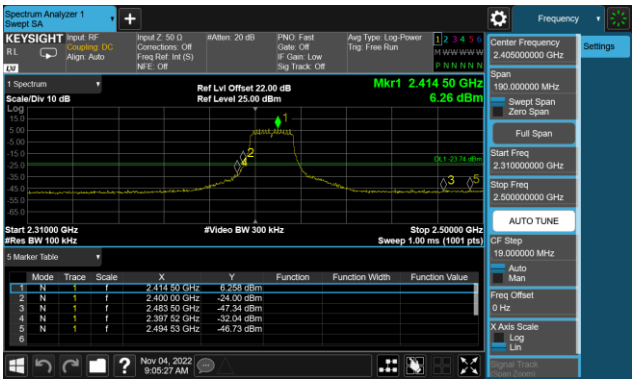
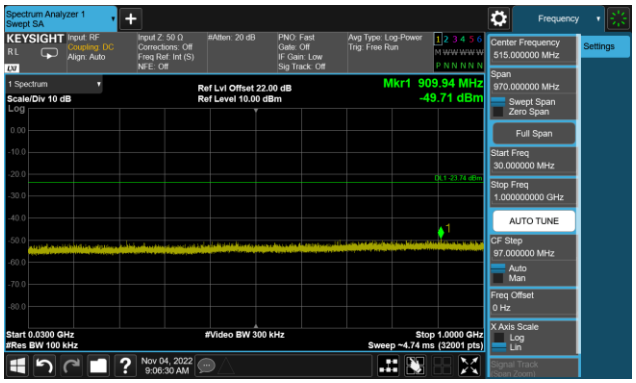
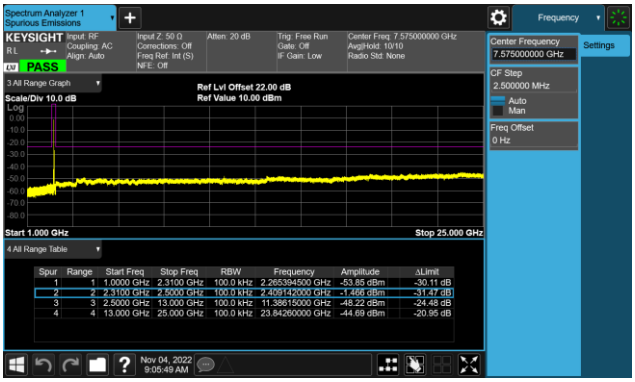
Product	Smart Wi-Fi Lamp Dimmer	Temperature	25°C
Test Engineer	Jay	Relative Humidity	54%
Test Site	SR5	Test Date	2022/11/4

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

Antenna 0	
802.11 b CH01 (2412MHz)	**802.11 b CH01 (2412MHz)**
	
802.11 b CH01 (2412MHz)	**802.11 b CH06 (2437MHz)**
	
802.11 b CH06 (2437MHz)	**802.11 b CH06 (2437MHz)**
	

802.11 b CH11 (2462MHz)	802.11 b CH11 (2462MHz)
	
802.11 b CH11 (2462MHz)	**802.11 g CH01 (2412MHz)**
	
802.11 g CH01 (2412MHz)	**802.11 g CH01 (2412MHz)**
	

802.11 g CH06 (2437MHz)	802.11 g CH06 (2437MHz)
	
802.11 g CH06 (2437MHz)	**802.11 g CH11 (2462MHz)**
	
802.11 g CH11 (2462MHz)	**802.11 g CH11 (2462MHz)**
	

802.11 n20 CH01 (2412MHz)	802.11 n20 CH01 (2412MHz)
	
802.11 n20 CH01 (2412MHz)	**802.11 n20 CH06 (2437MHz)**
	
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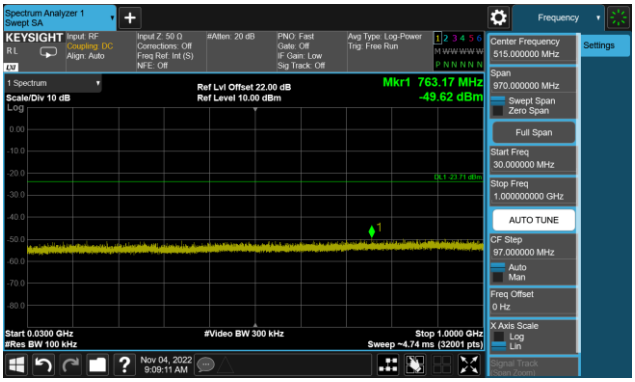
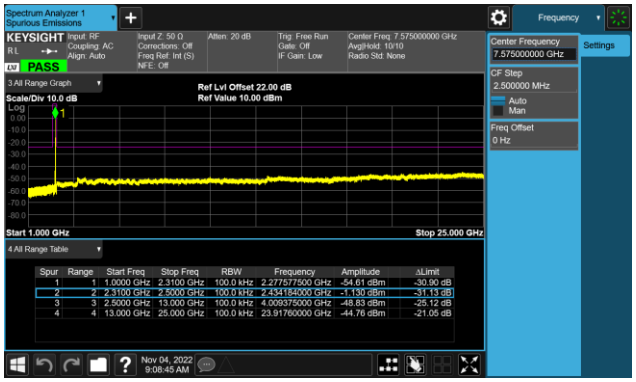
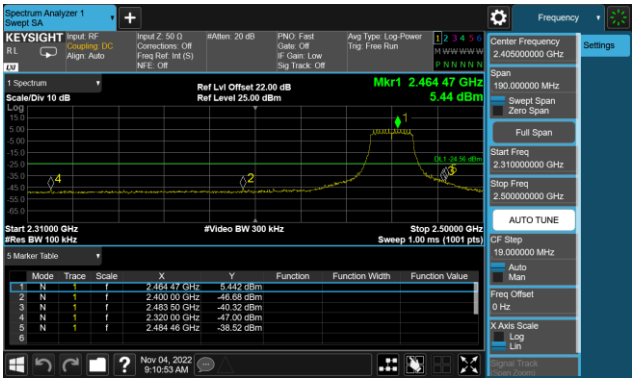
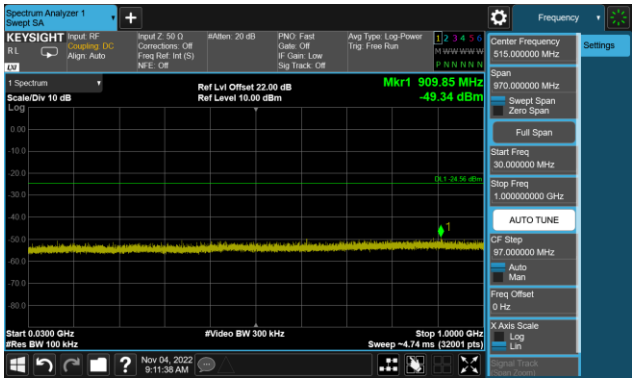
	

802.11 n20 CH11 (2462MHz)	802.11 n20 CH11 (2462MHz)
	
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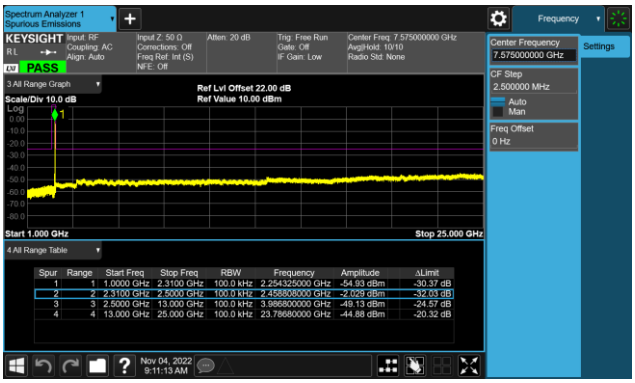
	

7.6. Radiated Spurious Emission Measurement

7.6.1.Test Limit

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

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

7.6.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

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

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

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

ANSI C63.10 - 2013 - Section 11.11 & 11.12

7.6.3.Test Setting

Table 1 - RBW as a function of frequency

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

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. Span was set greater than 1MHz

3. RBW = as specified in Table 1

4. Detector = CISPR quasi-peak

5. Sweep time = auto couple

6. Trace was allowed to stabilize

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. RBW = 1MHz

3. VBW = 3MHz

4. Detector = peak

5. Sweep time = auto couple

6. Trace mode = max hold

7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. RBW = 1MHz

3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.

If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.

4. Detector = Peak

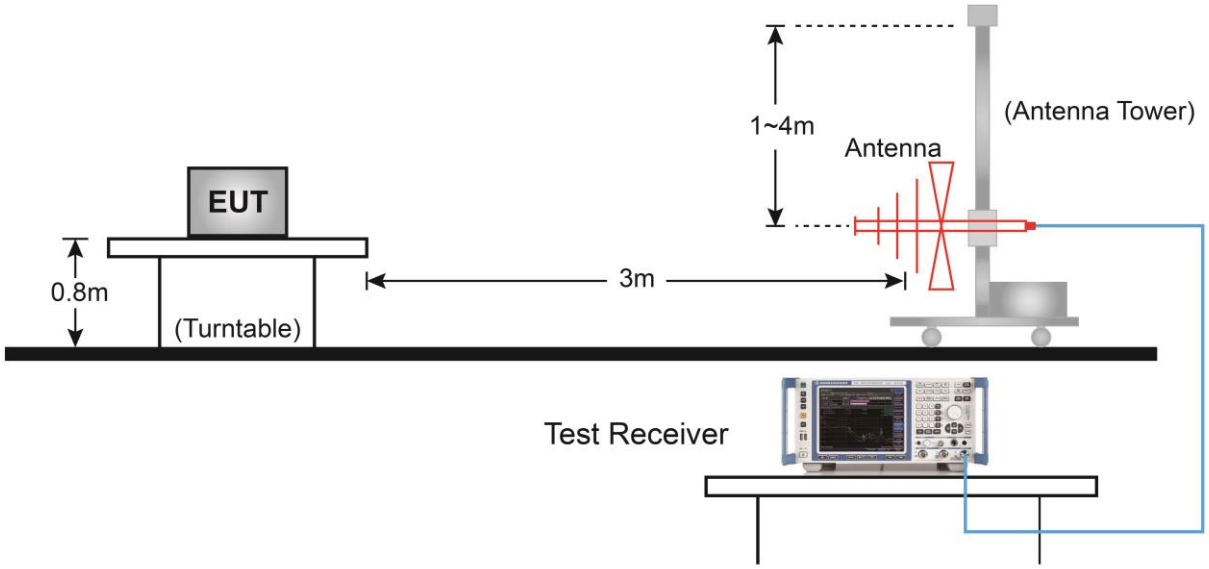
5. Sweep time = auto

6. Trace mode = max hold

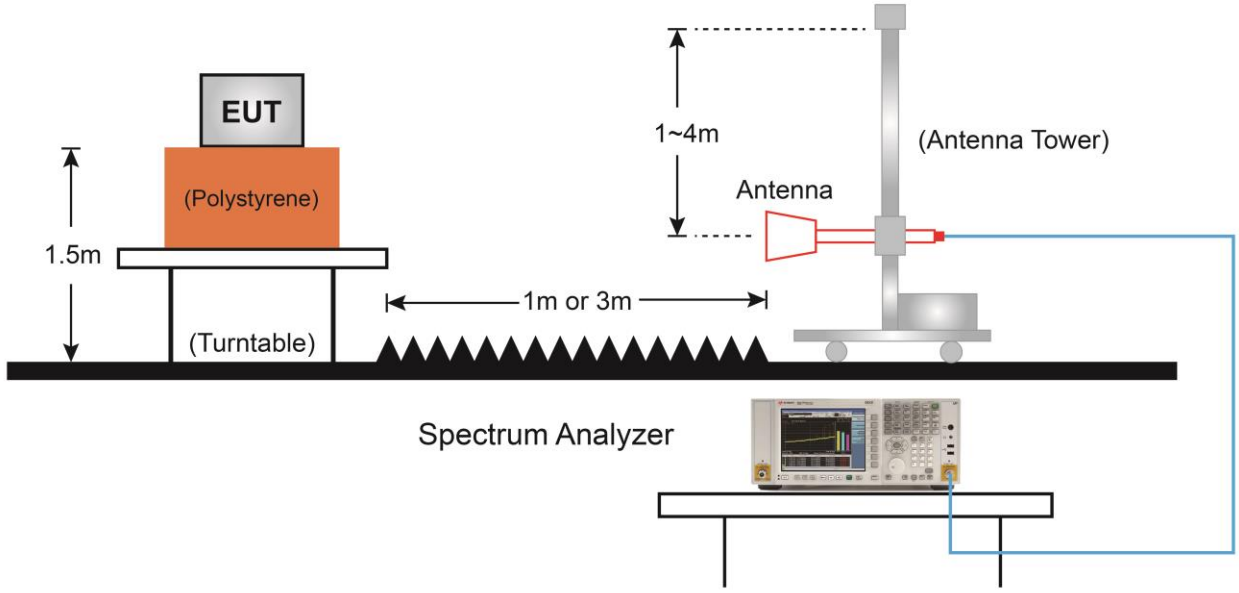
7. Trace was allowed to stabilize

7.6.4.Test Setup

Below 1GHz Test Setup:

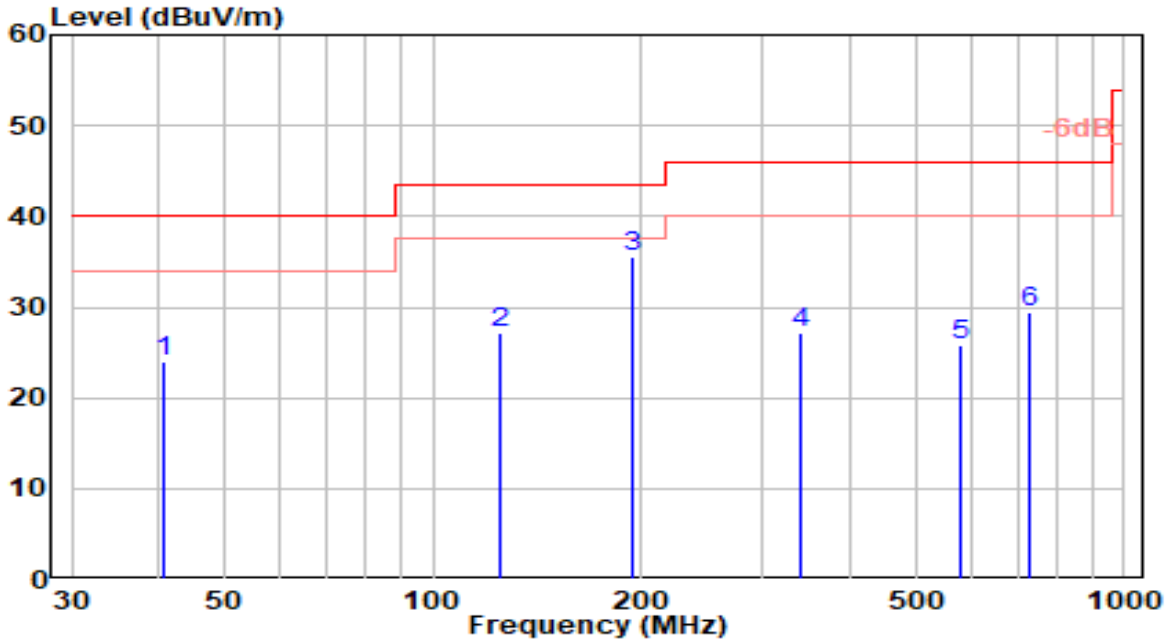


Above 1GHz Test Setup:



7.6.5.Test Result

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-11
Factor	VULB 9162	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Ares
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

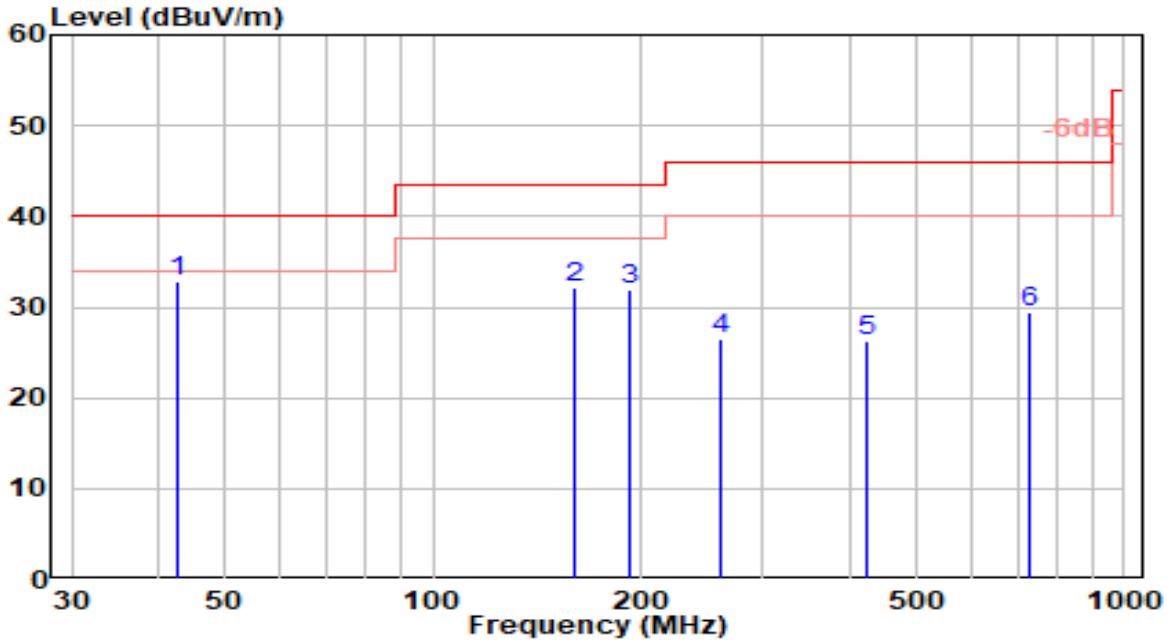


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		40.670	3.37	20.59	23.96	-16.04	40.00	100	335	QP
2		125.060	10.20	16.89	27.09	-16.41	43.50	100	290	QP
3	*	193.930	17.01	18.51	35.53	-7.97	43.50	100	290	QP
4		339.430	4.60	22.61	27.21	-18.79	46.00	100	310	QP
5		578.050	-1.29	27.13	25.84	-20.16	46.00	100	5	QP
6		730.340	0.07	29.34	29.41	-16.59	46.00	100	360	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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-11
Factor	VULB 9162	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Ares
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

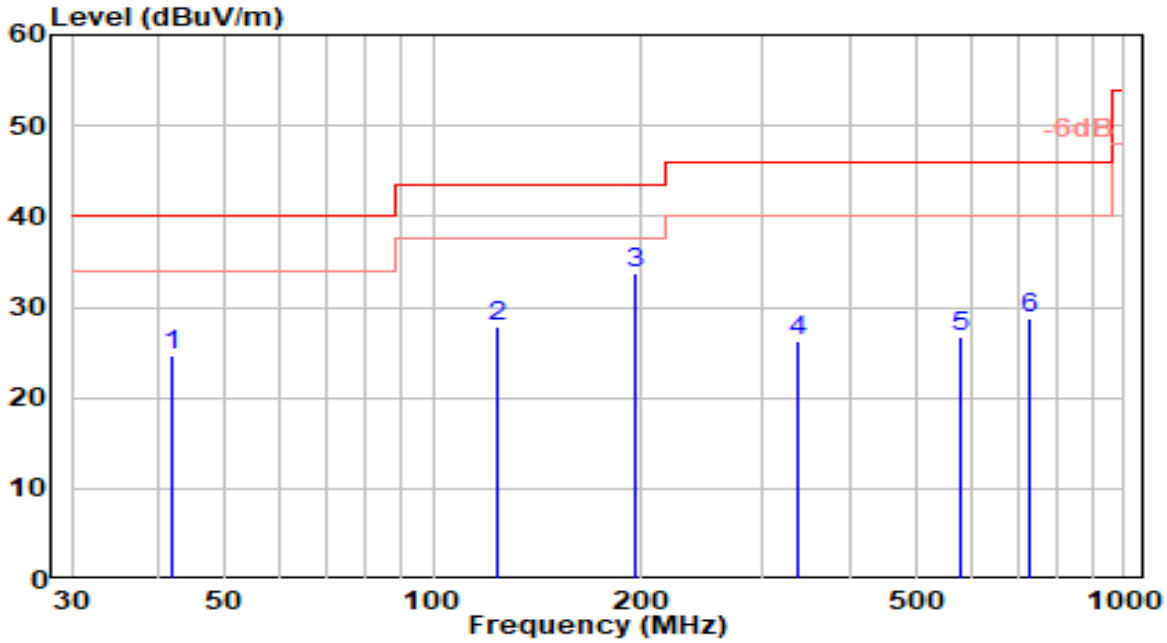


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	42.610	11.82	20.99	32.81	-7.19	40.00	100	140	QP
2		159.980	15.78	16.30	32.08	-11.42	43.50	100	120	QP
3		192.960	13.38	18.48	31.86	-11.64	43.50	100	95	QP
4		259.890	5.79	20.76	26.55	-19.45	46.00	100	0	QP
5		425.760	2.01	24.24	26.25	-19.75	46.00	100	45	QP
6		732.280	0.09	29.36	29.45	-16.55	46.00	100	0	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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-11
Factor	VULB 9162	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Ares
Test Mode	802.11n-20MHz_RX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

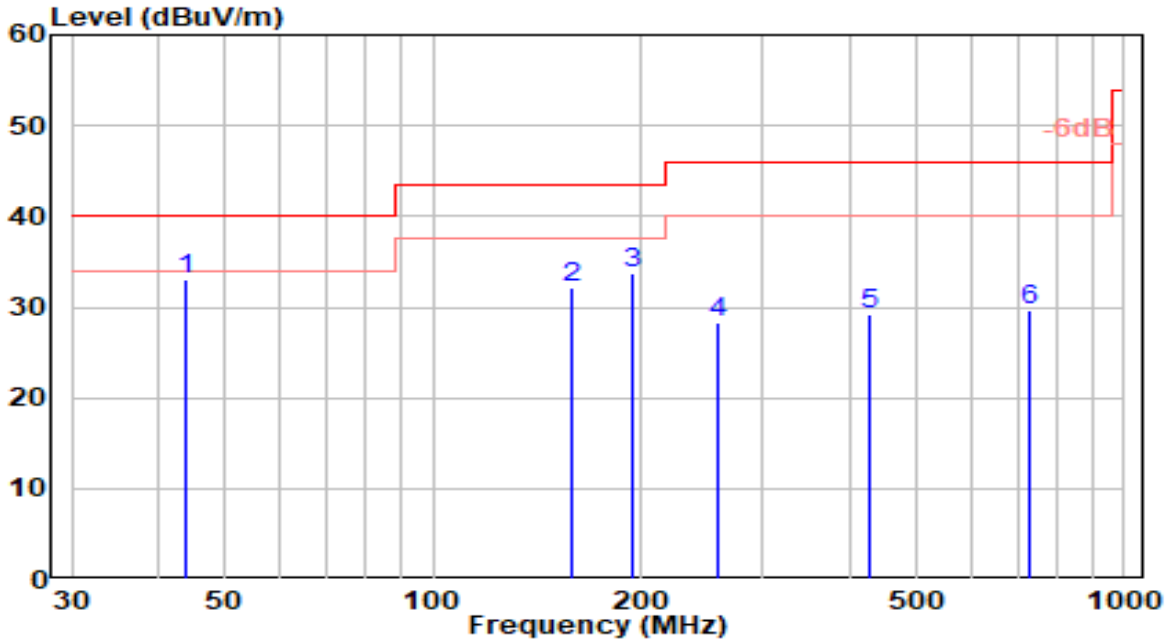


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		42.000	3.72	20.86	24.58	-15.42	40.00	100	35	QP
2		124.050	10.79	17.03	27.81	-15.69	43.50	100	350	QP
3	*	195.450	15.08	18.56	33.65	-9.85	43.50	100	350	QP
4		338.450	3.65	22.58	26.23	-19.77	46.00	100	10	QP
5		579.200	-0.50	27.16	26.66	-19.34	46.00	100	65	QP
6		729.670	-0.50	29.33	28.83	-17.17	46.00	100	60	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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-11
Factor	VULB 9162	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Ares
Test Mode	802.11n-20MHz_RX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

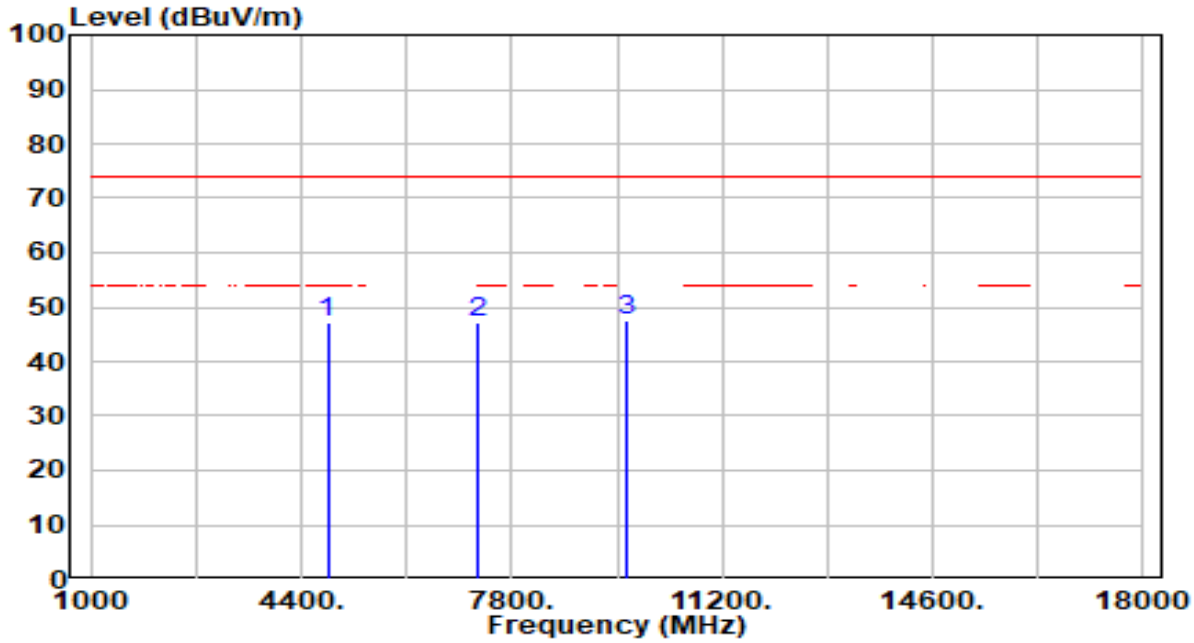


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	43.940	11.81	21.26	33.07	-6.93	40.00	100	200	QP
2		158.970	15.80	16.25	32.04	-11.46	43.50	100	180	QP
3		194.480	15.19	18.53	33.72	-9.78	43.50	100	155	QP
4		258.910	7.55	20.76	28.31	-17.69	46.00	100	60	QP
5		426.910	4.96	24.25	29.21	-16.79	46.00	100	105	QP
6		731.610	0.25	29.35	29.61	-16.39	46.00	100	60	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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

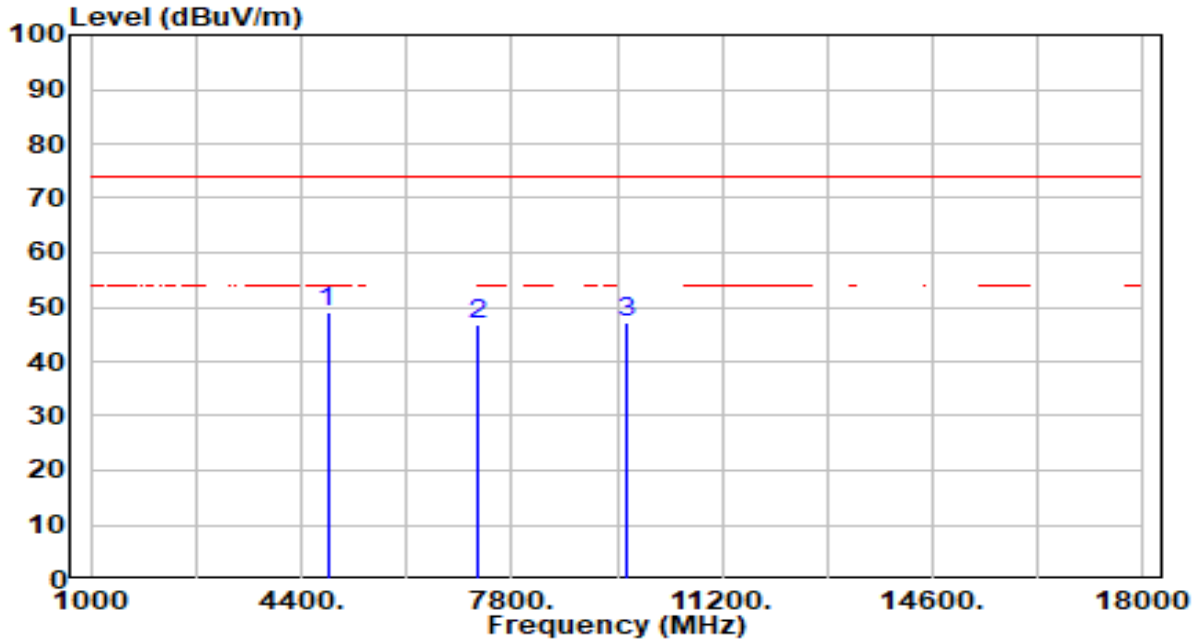


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4824.000	46.78	0.25	47.03	-26.97	74.00	150	360	Peak
2		7236.000	41.18	5.81	46.99	-27.01	74.00	150	360	Peak
3	*	9648.000	42.36	5.32	47.69	-26.31	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5 The magnitude of the radiated emission (frequency range from 18GHz to 25GHz) is close to the magnitude of the ambient noise, which is also attenuated by more than 20 dB than the allowable value. Therefore, this data is not presented in the report.

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

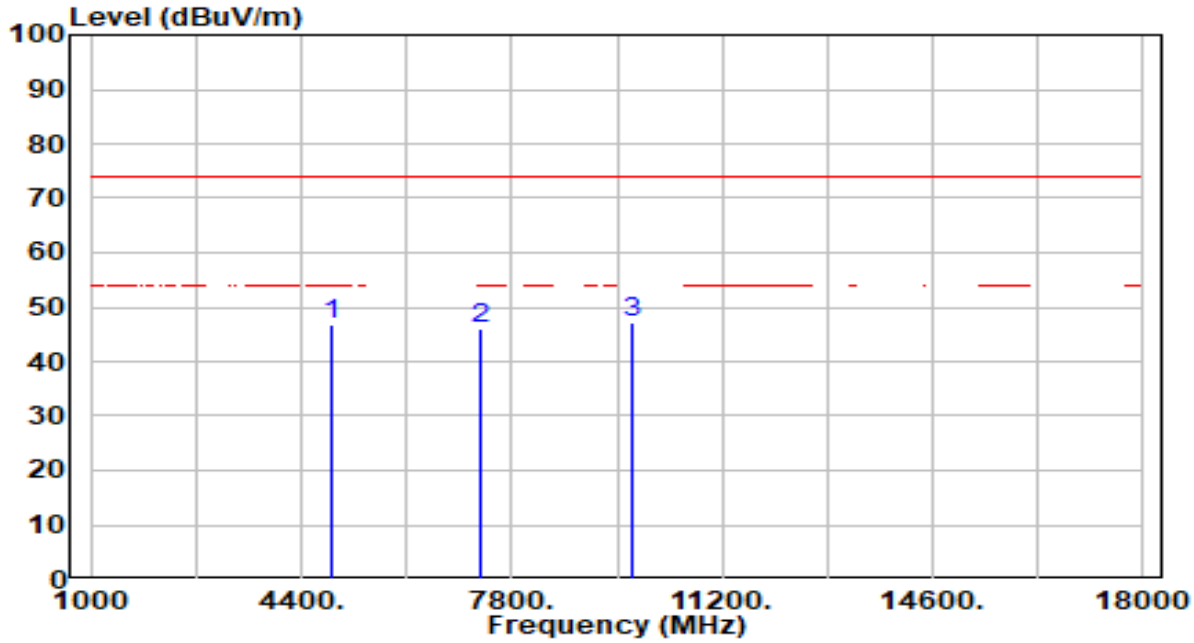


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4824.000	48.68	0.25	48.93	-25.07	74.00	150	360	Peak
2		7236.000	40.81	5.81	46.62	-27.38	74.00	150	360	Peak
3		9648.000	42.00	5.32	47.32	-26.68	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5 The magnitude of the radiated emission (frequency range from 18GHz to 25GHz) is close to the magnitude of the ambient noise, which is also attenuated by more than 20 dB than the allowable value. Therefore, this data is not presented in the report.

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

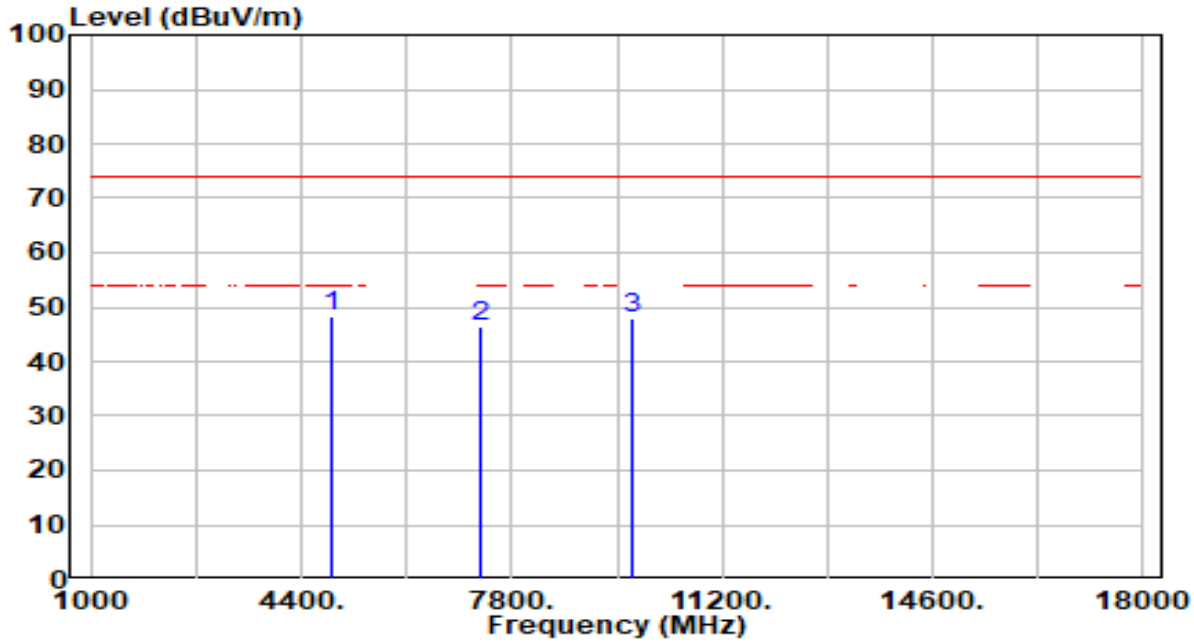


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4874.000	46.54	0.35	46.89	-27.11	74.00	150	360	Peak
2		7311.000	40.36	5.79	46.15	-27.85	74.00	150	360	Peak
3	*	9748.000	41.97	5.34	47.31	-26.69	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5 The magnitude of the radiated emission (frequency range from 18GHz to 25GHz) is close to the magnitude of the ambient noise, which is also attenuated by more than 20 dB than the allowable value. Therefore, this data is not presented in the report.

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

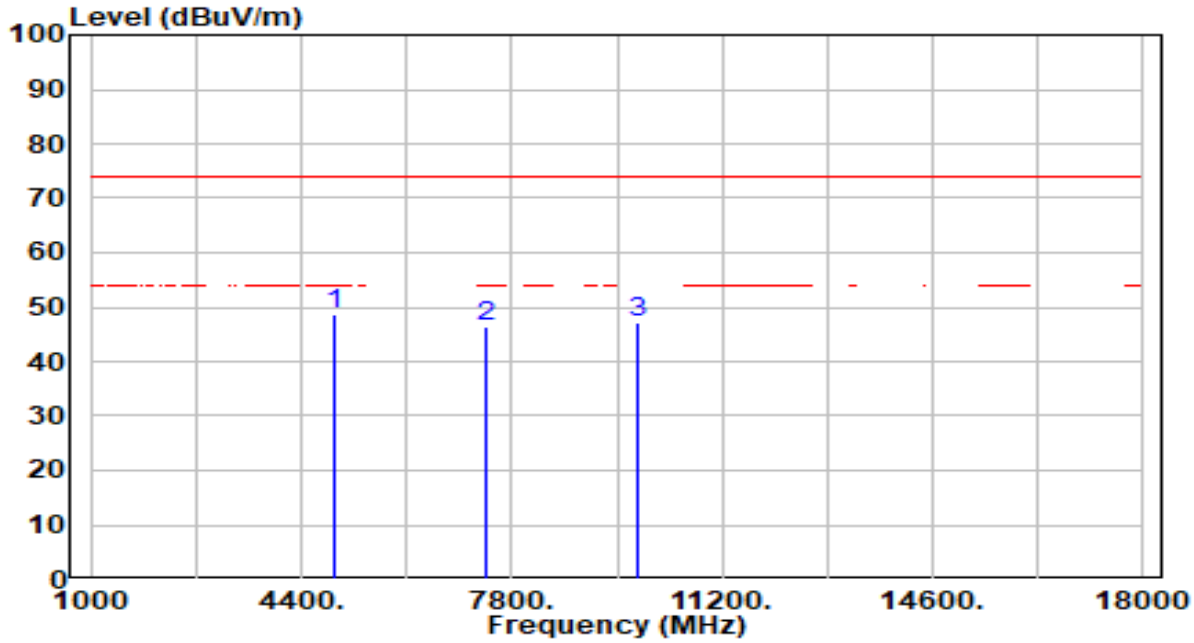


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4874.000	48.13	0.35	48.48	-25.52	74.00	150	360	Peak
2		7311.000	40.59	5.79	46.39	-27.61	74.00	150	360	Peak
3		9748.000	42.56	5.34	47.90	-26.10	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5 The magnitude of the radiated emission (frequency range from 18GHz to 25GHz) is close to the magnitude of the ambient noise, which is also attenuated by more than 20 dB than the allowable value. Therefore, this data is not presented in the report.

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

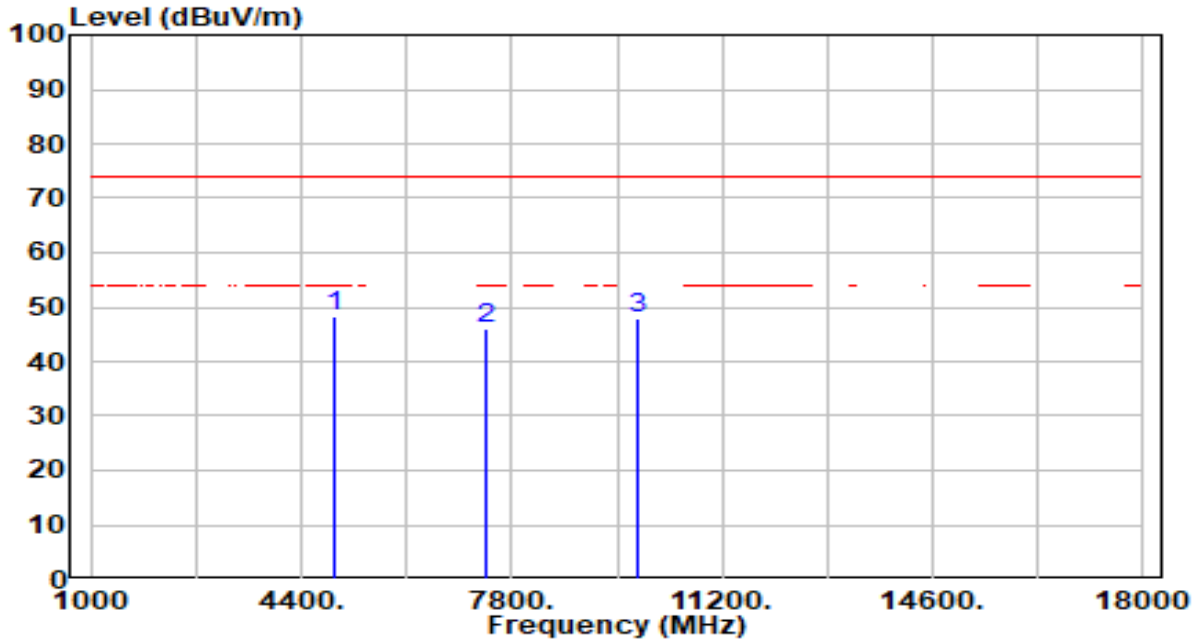


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4924.000	48.29	0.45	48.75	-25.25	74.00	150	360	Peak
2		7386.000	40.73	5.77	46.50	-27.50	74.00	150	360	Peak
3		9848.000	41.95	5.38	47.33	-26.67	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5 The magnitude of the radiated emission (frequency range from 18GHz to 25GHz) is close to the magnitude of the ambient noise, which is also attenuated by more than 20 dB than the allowable value. Therefore, this data is not presented in the report.

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

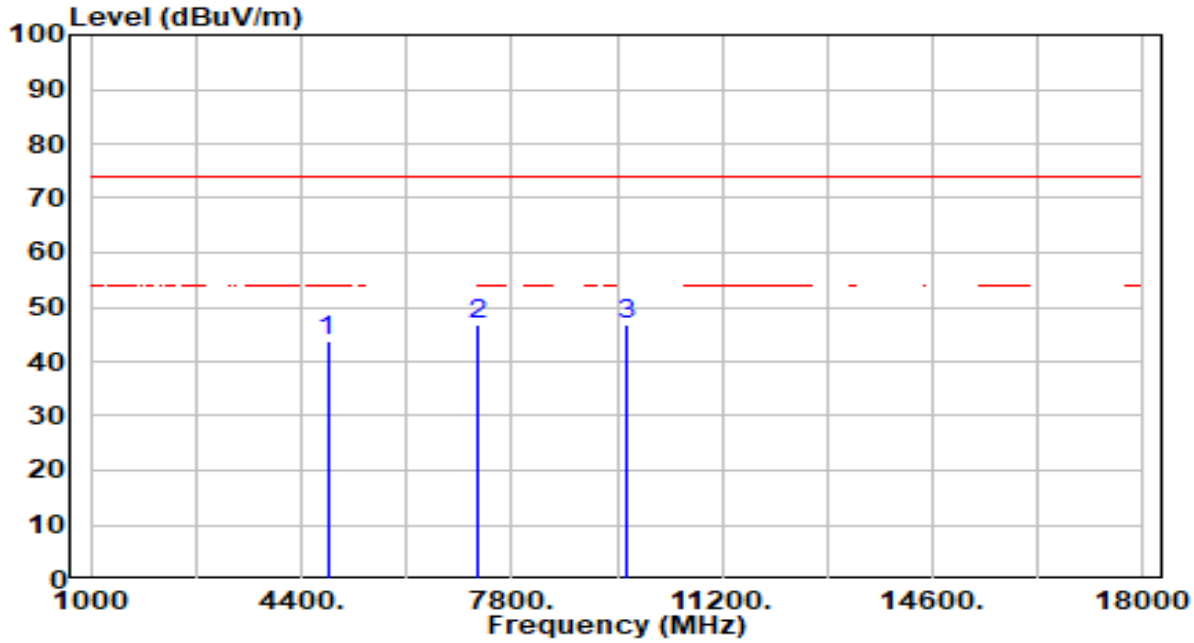


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4924.000	47.85	0.45	48.30	-25.70	74.00	150	360	Peak
2		7386.000	40.25	5.77	46.02	-27.98	74.00	150	360	Peak
3		9848.000	42.47	5.38	47.85	-26.15	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5 The magnitude of the radiated emission (frequency range from 18GHz to 25GHz) is close to the magnitude of the ambient noise, which is also attenuated by more than 20 dB than the allowable value. Therefore, this data is not presented in the report.

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

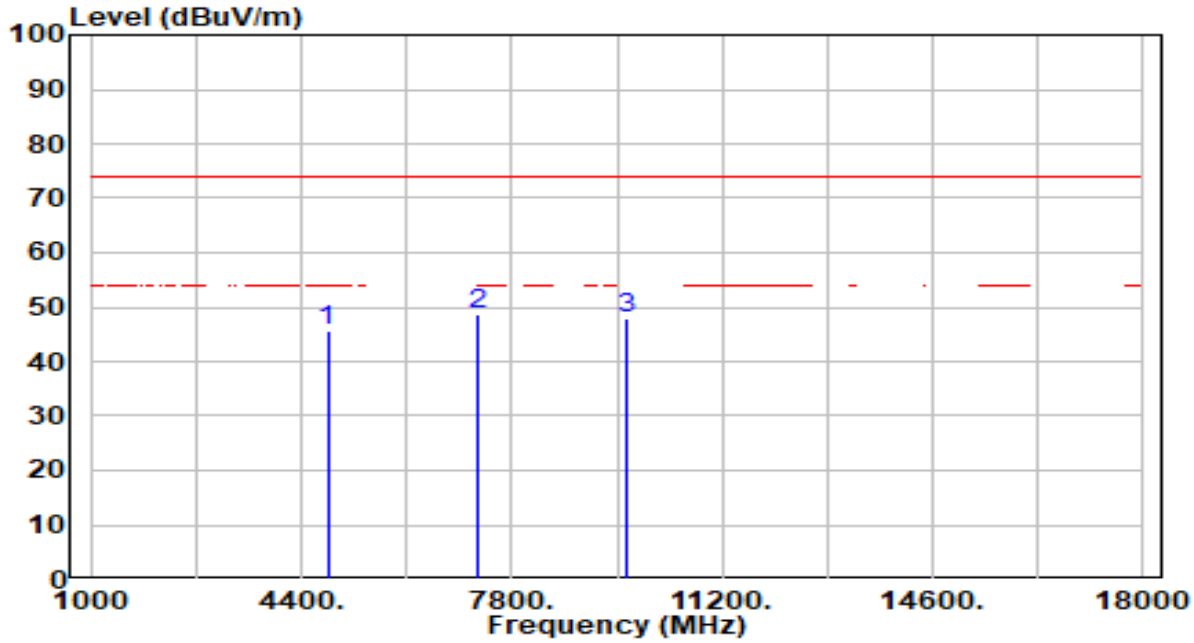


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4824.000	43.47	0.25	43.72	-30.28	74.00	150	360	Peak
2	*	7236.000	41.13	5.81	46.95	-27.05	74.00	150	360	Peak
3		9648.000	41.58	5.32	46.90	-27.10	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5 The magnitude of the radiated emission (frequency range from 18GHz to 25GHz) is close to the magnitude of the ambient noise, which is also attenuated by more than 20 dB than the allowable value. Therefore, this data is not presented in the report.

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

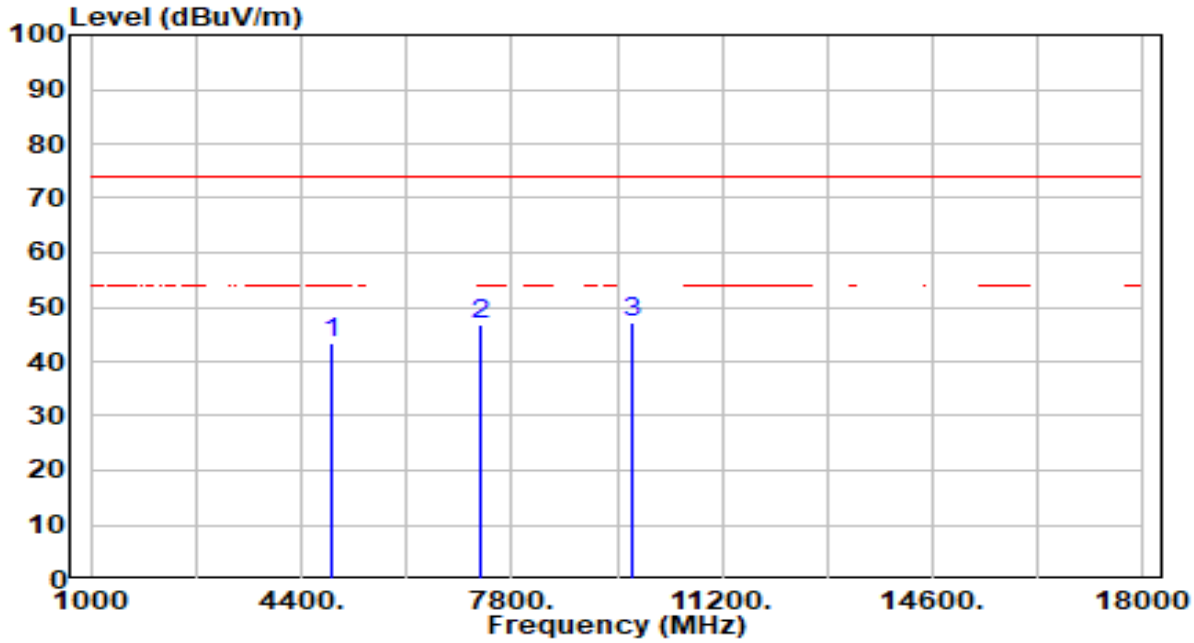


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4824.000	45.50	0.25	45.75	-28.25	74.00	150	360	Peak
2	*	7236.000	42.70	5.81	48.51	-25.49	74.00	150	360	Peak
3		9648.000	42.62	5.32	47.94	-26.06	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5 The magnitude of the radiated emission (frequency range from 18GHz to 25GHz) is close to the magnitude of the ambient noise, which is also attenuated by more than 20 dB than the allowable value. Therefore, this data is not presented in the report.

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

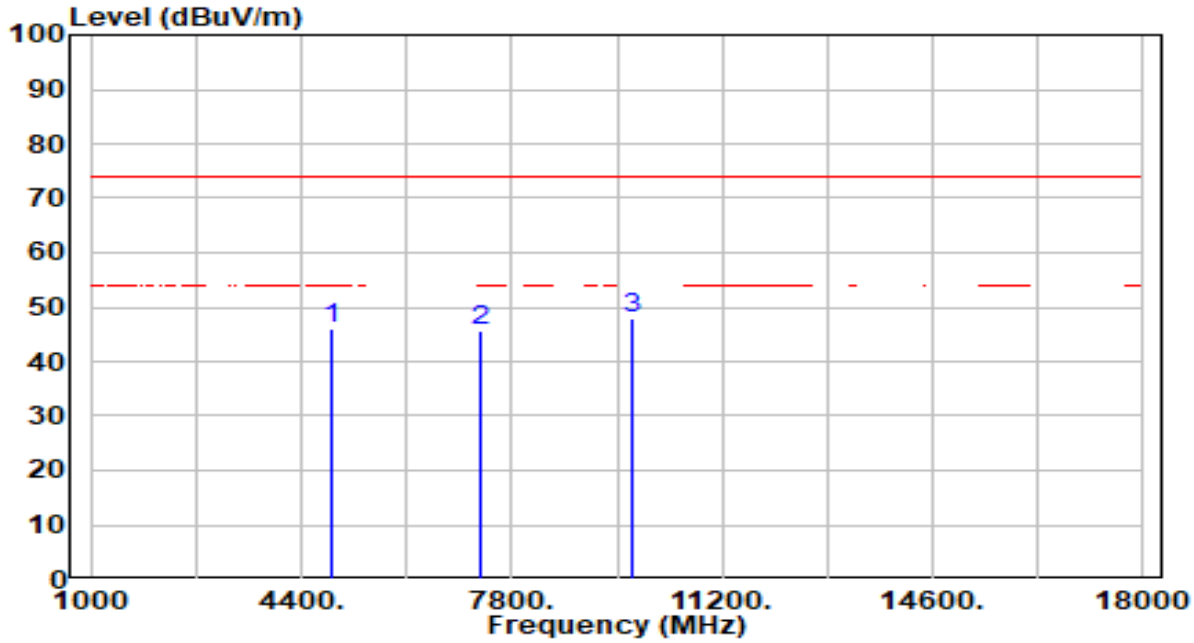


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4874.000	42.88	0.35	43.24	-30.76	74.00	150	360	Peak
2		7311.000	41.01	5.79	46.81	-27.19	74.00	150	360	Peak
3	*	9748.000	41.90	5.34	47.24	-26.76	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5 The magnitude of the radiated emission (frequency range from 18GHz to 25GHz) is close to the magnitude of the ambient noise, which is also attenuated by more than 20 dB than the allowable value. Therefore, this data is not presented in the report.

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

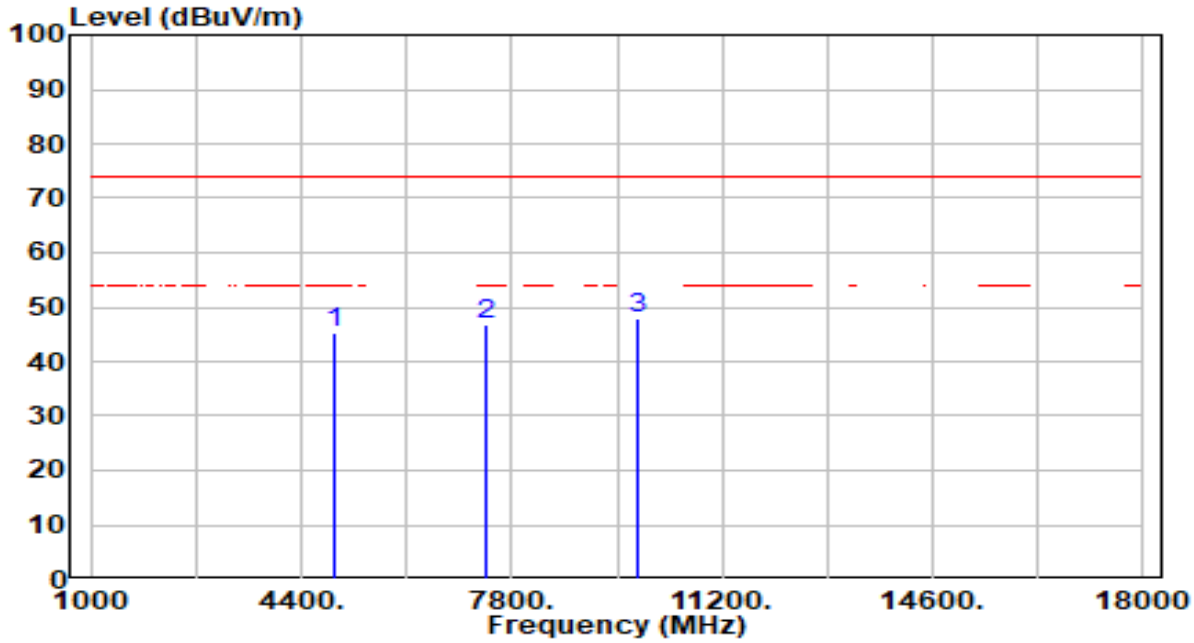


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4874.000	45.62	0.35	45.97	-28.03	74.00	150	360	Peak
2		7311.000	39.98	5.79	45.78	-28.22	74.00	150	360	Peak
3	*	9748.000	42.49	5.34	47.83	-26.17	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5 The magnitude of the radiated emission (frequency range from 18GHz to 25GHz) is close to the magnitude of the ambient noise, which is also attenuated by more than 20 dB than the allowable value. Therefore, this data is not presented in the report.

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

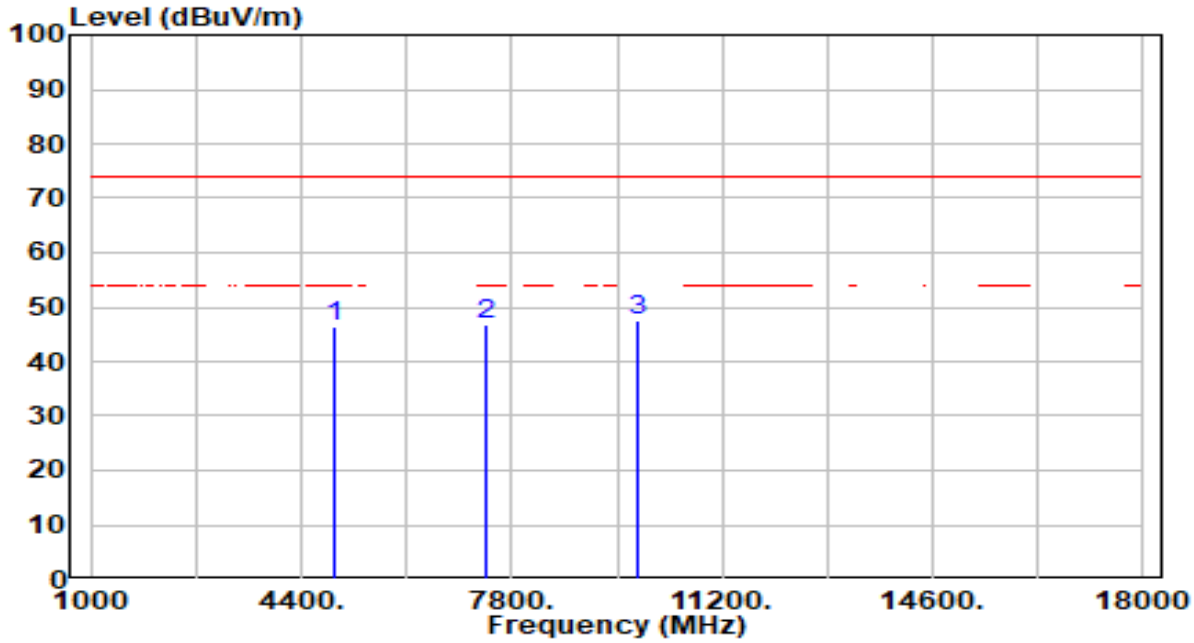


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4924.000	44.66	0.45	45.11	-28.89	74.00	150	360	Peak
2		7386.000	40.99	5.77	46.76	-27.24	74.00	150	360	Peak
3	*	9848.000	42.38	5.38	47.76	-26.24	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5 The magnitude of the radiated emission (frequency range from 18GHz to 25GHz) is close to the magnitude of the ambient noise, which is also attenuated by more than 20 dB than the allowable value. Therefore, this data is not presented in the report.

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

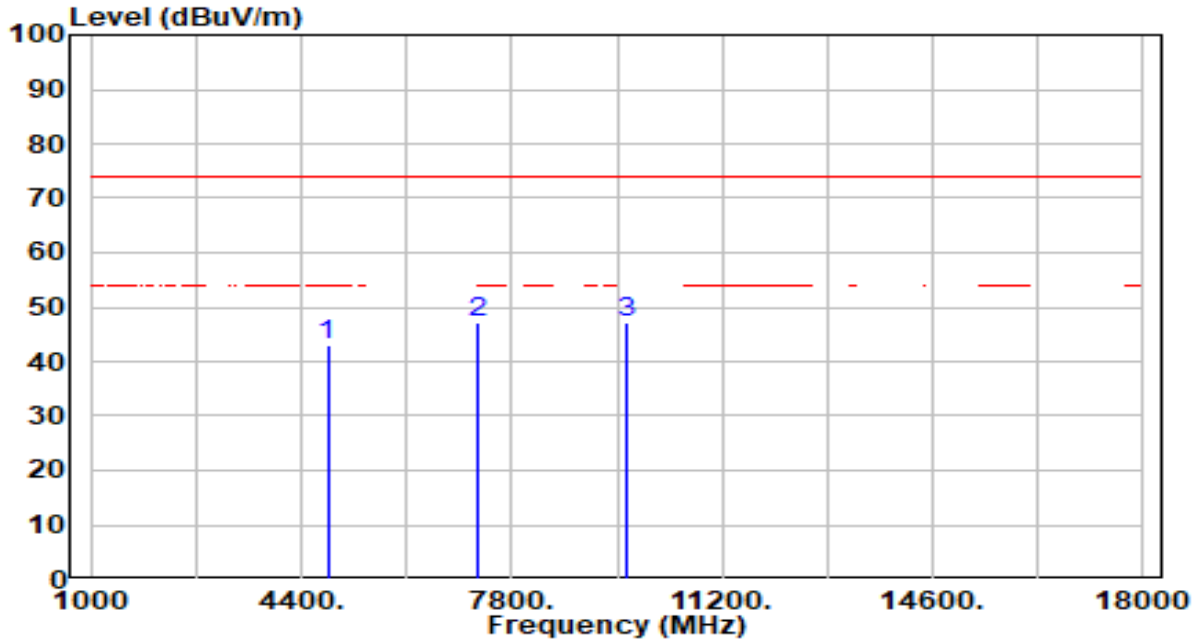


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4924.000	45.97	0.45	46.42	-27.58	74.00	150	360	Peak
2		7386.000	41.08	5.77	46.85	-27.15	74.00	150	360	Peak
3	*	9848.000	42.30	5.38	47.68	-26.32	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5 The magnitude of the radiated emission (frequency range from 18GHz to 25GHz) is close to the magnitude of the ambient noise, which is also attenuated by more than 20 dB than the allowable value. Therefore, this data is not presented in the report.

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

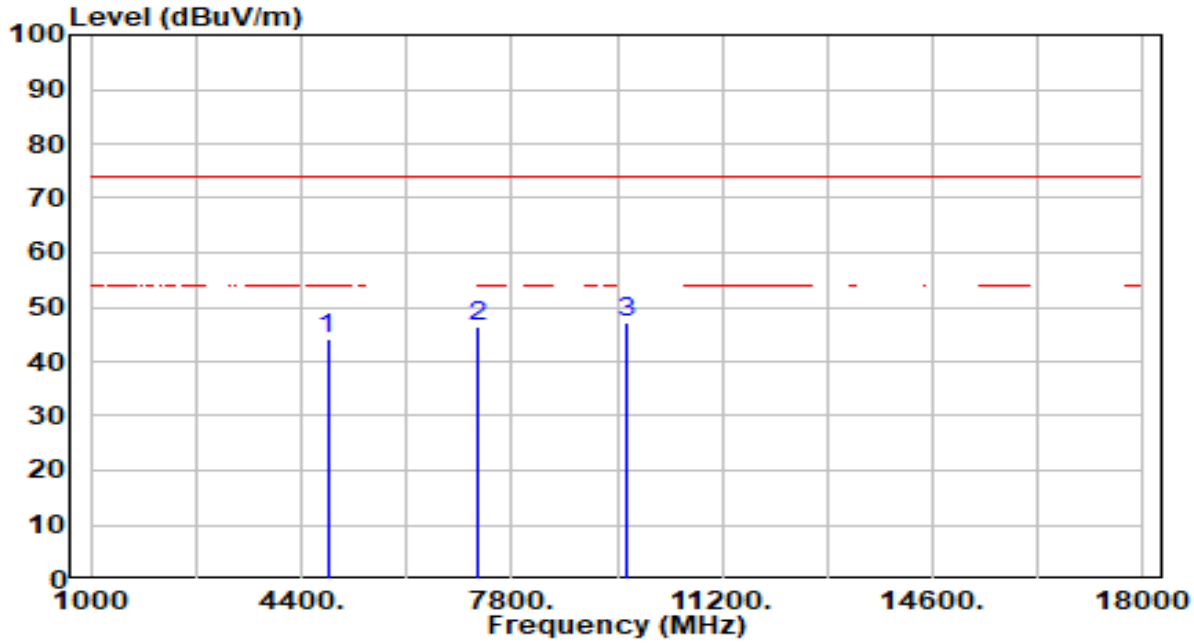


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4824.000	42.58	0.25	42.83	-31.17	74.00	150	360	Peak
2	*	7236.000	41.41	5.81	47.22	-26.78	74.00	150	360	Peak
3		9648.000	41.90	5.32	47.22	-26.78	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5 The magnitude of the radiated emission (frequency range from 18GHz to 25GHz) is close to the magnitude of the ambient noise, which is also attenuated by more than 20 dB than the allowable value. Therefore, this data is not presented in the report.

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

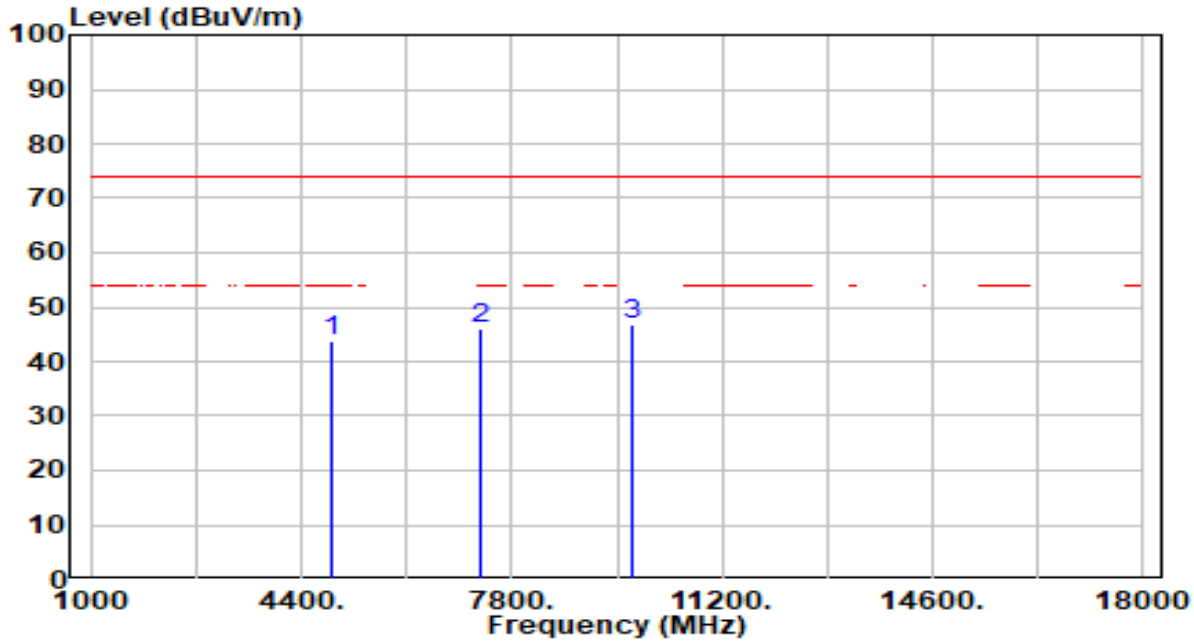


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4824.000	43.87	0.25	44.12	-29.88	74.00	150	360	Peak
2		7236.000	40.63	5.81	46.44	-27.56	74.00	150	360	Peak
3	*	9648.000	41.92	5.32	47.24	-26.76	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5 The magnitude of the radiated emission (frequency range from 18GHz to 25GHz) is close to the magnitude of the ambient noise, which is also attenuated by more than 20 dB than the allowable value. Therefore, this data is not presented in the report.

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

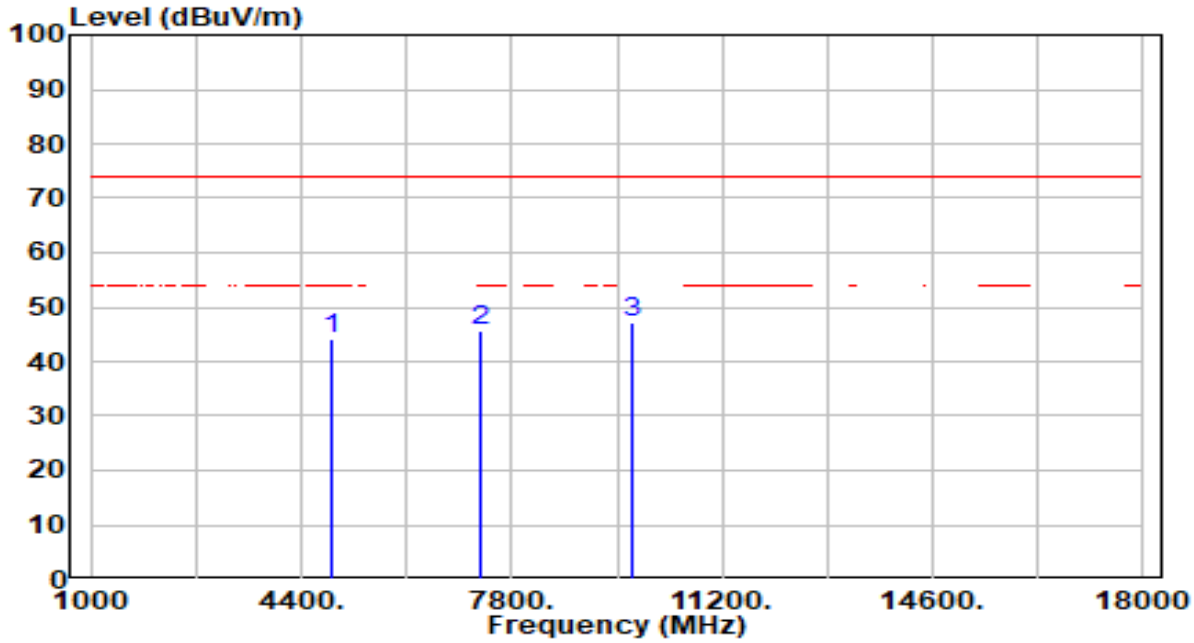


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4874.000	43.35	0.35	43.71	-30.29	74.00	150	360	Peak
2		7311.000	40.30	5.79	46.09	-27.91	74.00	150	360	Peak
3	*	9748.000	41.33	5.34	46.67	-27.33	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5 The magnitude of the radiated emission (frequency range from 18GHz to 25GHz) is close to the magnitude of the ambient noise, which is also attenuated by more than 20 dB than the allowable value. Therefore, this data is not presented in the report.

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

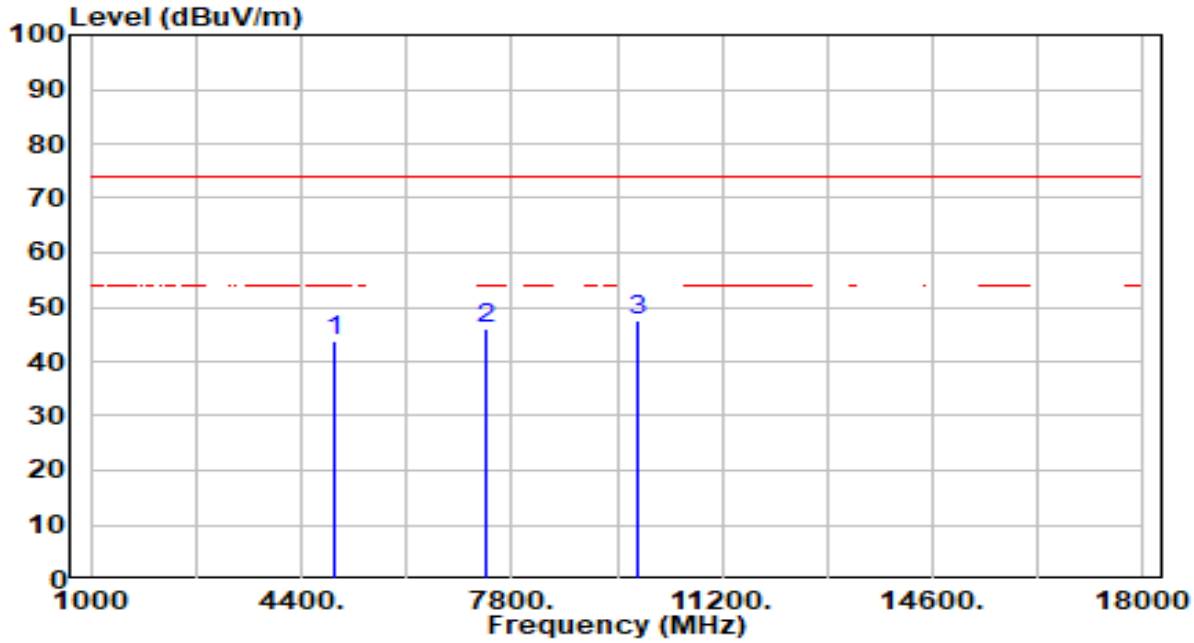


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4874.000	43.71	0.35	44.07	-29.93	74.00	150	360	Peak
2		7311.000	40.00	5.79	45.79	-28.21	74.00	150	360	Peak
3	*	9748.000	42.00	5.34	47.34	-26.66	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5 The magnitude of the radiated emission (frequency range from 18GHz to 25GHz) is close to the magnitude of the ambient noise, which is also attenuated by more than 20 dB than the allowable value. Therefore, this data is not presented in the report.

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

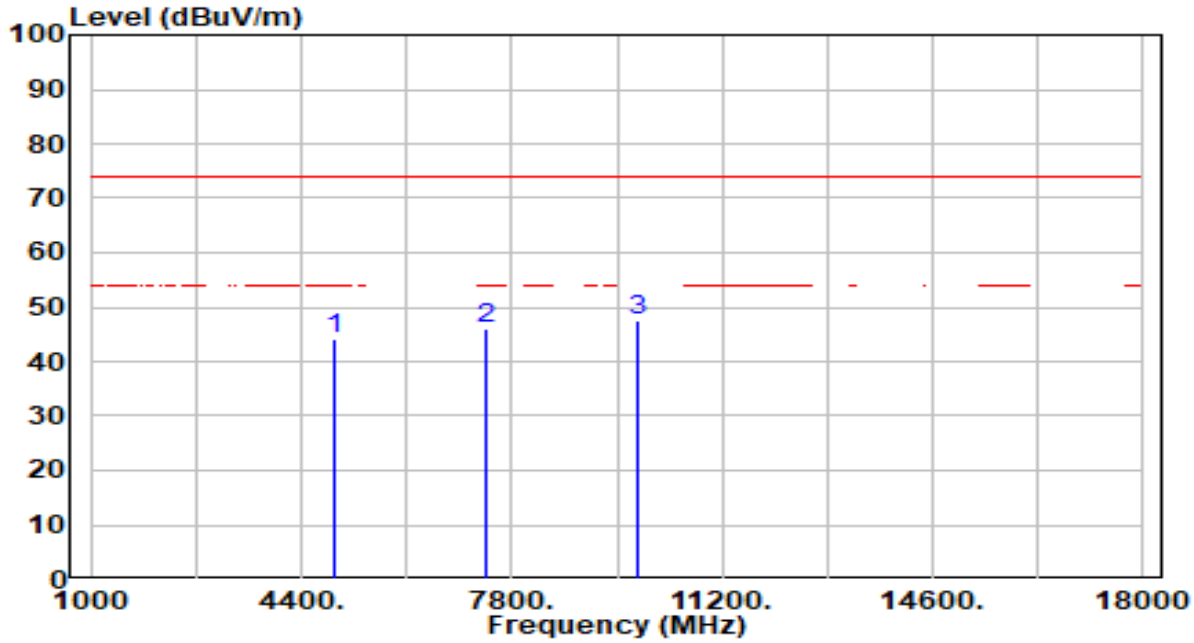


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4924.000	43.19	0.45	43.65	-30.35	74.00	150	360	Peak
2		7386.000	40.42	5.77	46.19	-27.81	74.00	150	360	Peak
3	*	9848.000	42.09	5.38	47.47	-26.53	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5 The magnitude of the radiated emission (frequency range from 18GHz to 25GHz) is close to the magnitude of the ambient noise, which is also attenuated by more than 20 dB than the allowable value. Therefore, this data is not presented in the report.

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

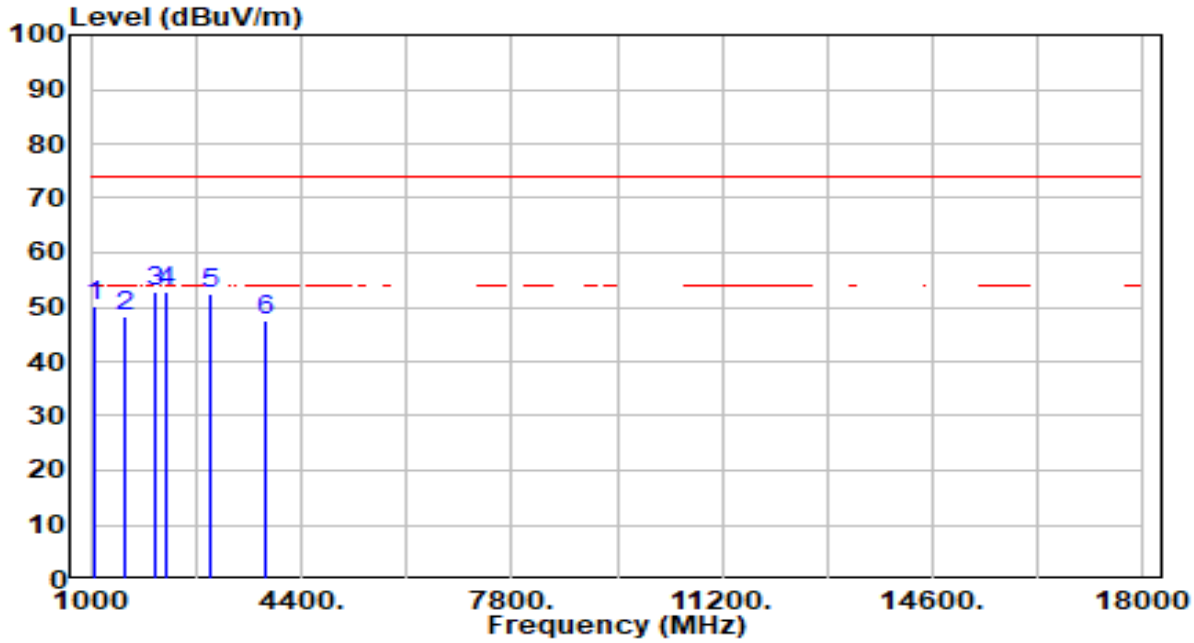


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4924.000	43.65	0.45	44.10	-29.90	74.00	150	360	Peak
2		7386.000	40.17	5.77	45.94	-28.06	74.00	150	360	Peak
3	*	9848.000	42.07	5.38	47.45	-26.55	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5 The magnitude of the radiated emission (frequency range from 18GHz to 25GHz) is close to the magnitude of the ambient noise, which is also attenuated by more than 20 dB than the allowable value. Therefore, this data is not presented in the report.

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_RX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

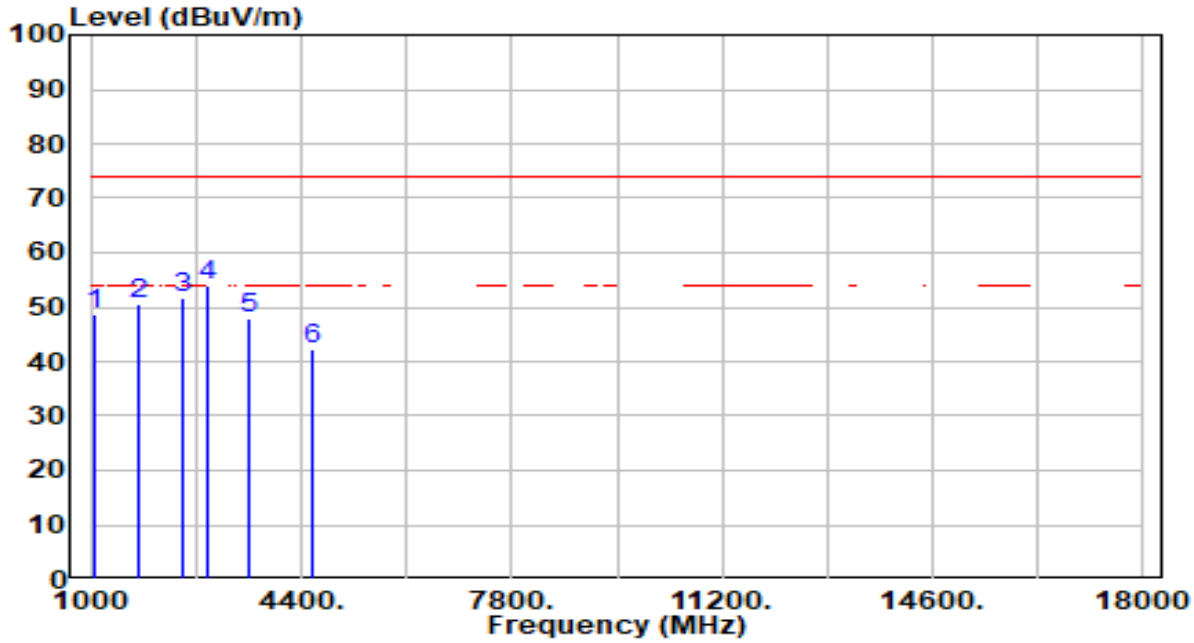


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		1052.330	57.74	-7.38	50.36	-23.64	74.00	150	360	Peak
2		1562.430	55.52	-7.11	48.41	-25.59	74.00	150	360	Peak
3	*	2038.660	58.48	-5.55	52.93	-21.07	74.00	150	360	Peak
4		2239.260	57.82	-5.06	52.76	-21.24	74.00	150	360	Peak
5		2922.850	55.52	-3.25	52.27	-21.73	74.00	150	360	Peak
6		3837.330	48.82	-1.18	47.64	-26.36	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5 The magnitude of the radiated emission (frequency range from 18GHz to 25GHz) is close to the magnitude of the ambient noise, which is also attenuated by more than 20 dB than the allowable value. Therefore, this data is not presented in the report.

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_RX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		1069.330	56.08	-7.40	48.69	-25.31	74.00	150	360	Peak
2		1783.430	57.69	-6.94	50.75	-23.25	74.00	150	360	Peak
3		2480.660	56.60	-4.80	51.81	-22.19	74.00	150	360	Peak
4	*	2902.260	57.16	-3.30	53.86	-20.14	74.00	150	360	Peak
5		3568.850	50.17	-2.14	48.02	-25.98	74.00	150	360	Peak
6		4585.330	42.31	0.03	42.34	-31.66	74.00	150	360	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5 The magnitude of the radiated emission (frequency range from 18GHz to 25GHz) is close to the magnitude of the ambient noise, which is also attenuated by more than 20 dB than the allowable value. Therefore, this data is not presented in the report.

7.7. Radiated Restricted Band Edge Measurement

7.7.1.Test Limit

For 15.205 requirement:

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

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

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

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

7.7.2.Test Procedure Used

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

7.7.3.Test Setting

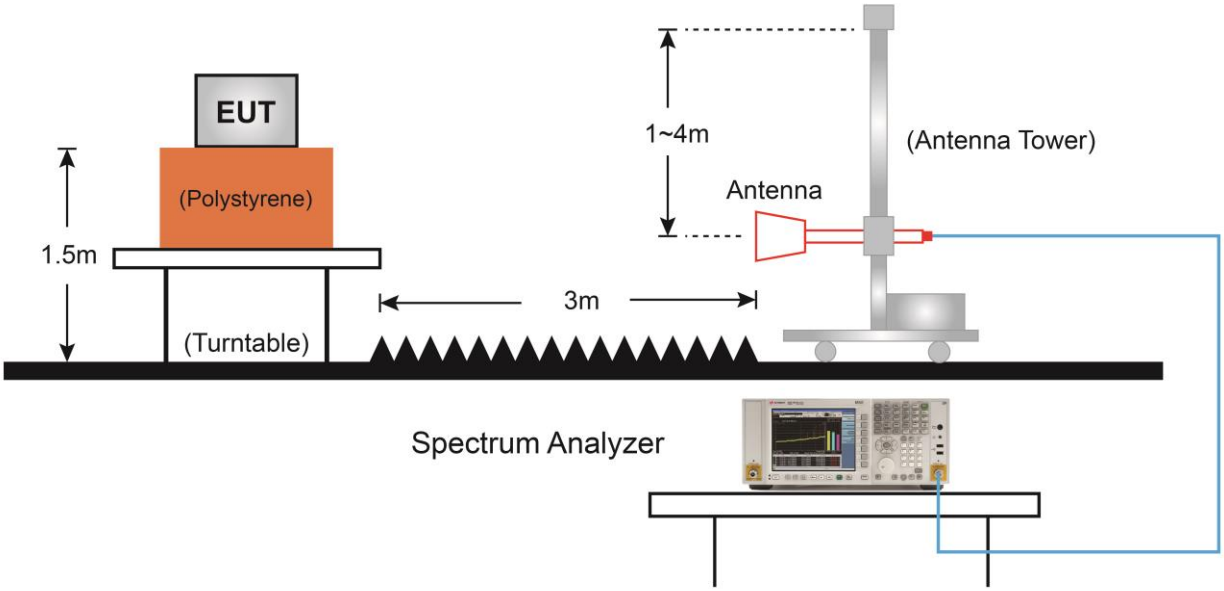
Peak Field Strength Measurements

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

Average Measurements above 1GHz (Method VB)

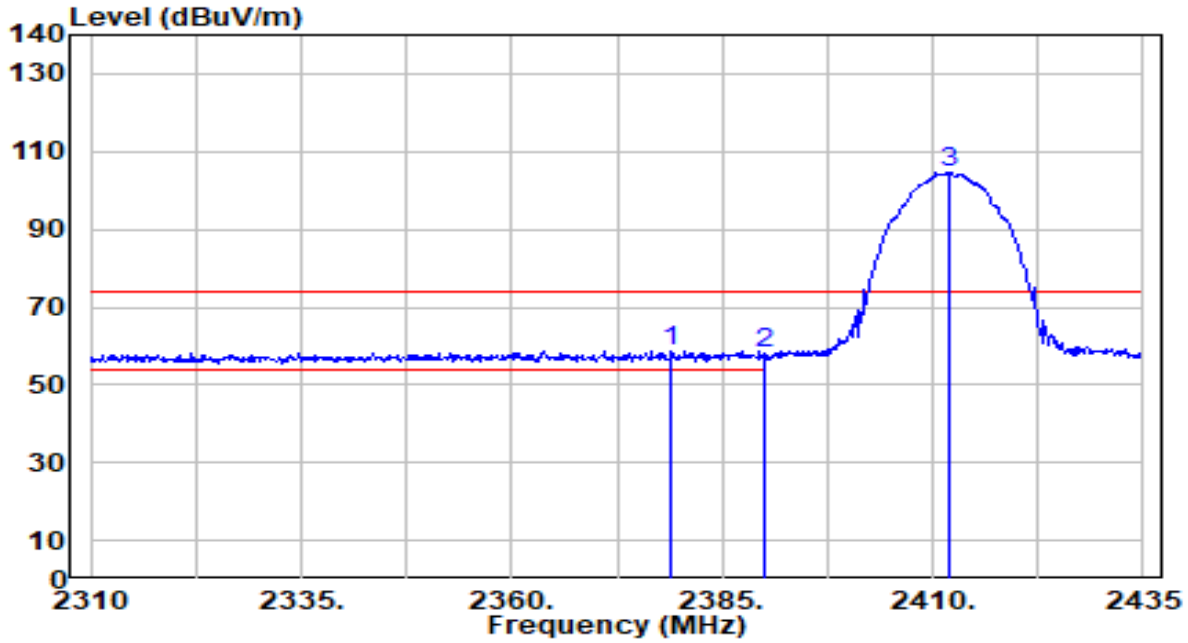
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW ≥ 1/T
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain).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

7.7.4.Test Setup



7.7.5.Test Result

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

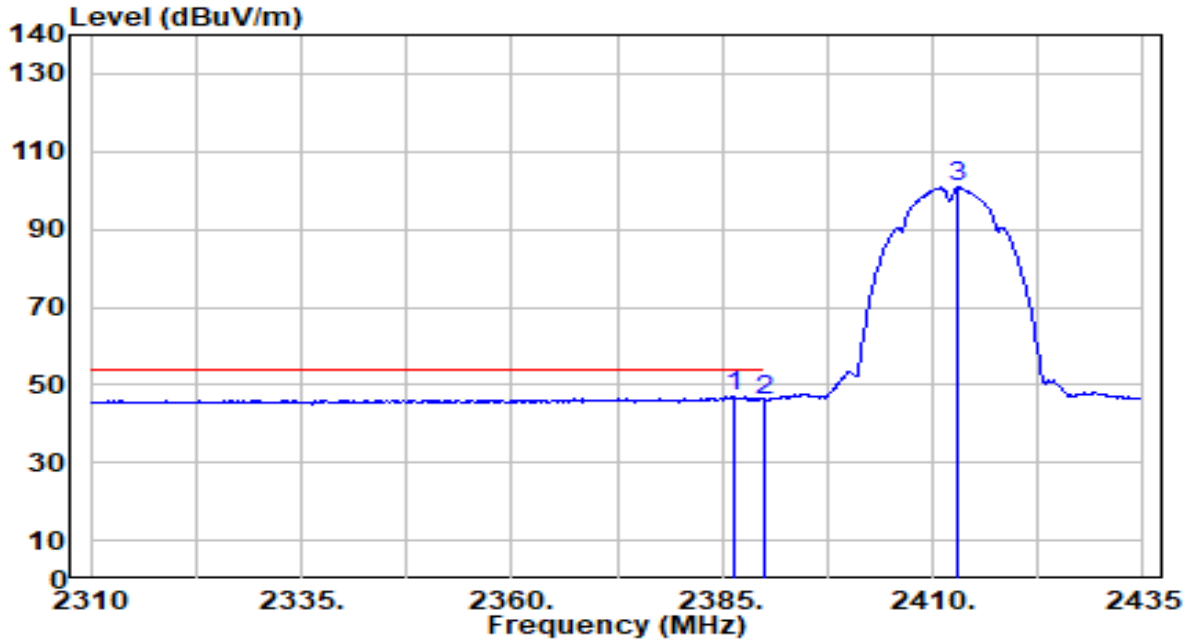


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2378.875	28.29	30.60	58.89	-15.11	74.00	100	155	Peak
2		2390.000	27.39	30.61	58.00	-16.00	74.00	100	155	Peak
3		2412.000	74.03	30.67	104.70	N/A	N/A	100	155	Peak

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

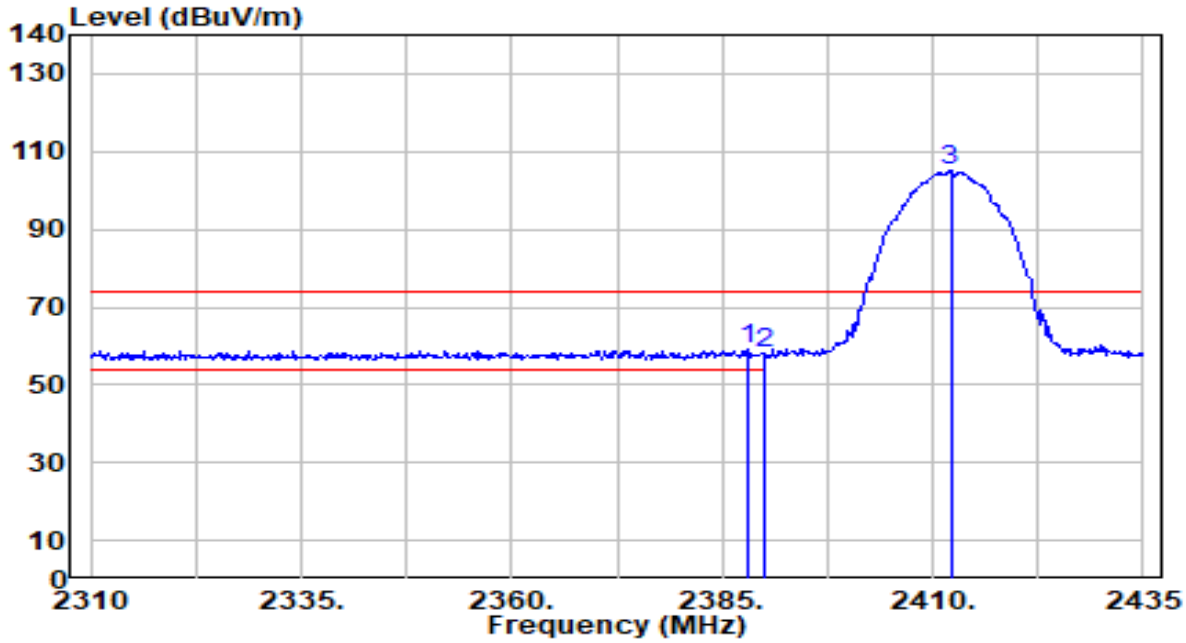


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2386.500	16.41	30.61	47.02	-6.98	54.00	100	155	Average
2		2390.000	15.37	30.61	45.99	-8.01	54.00	100	155	Average
3		2413.000	70.08	30.67	100.75	N/A	N/A	100	155	Average

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

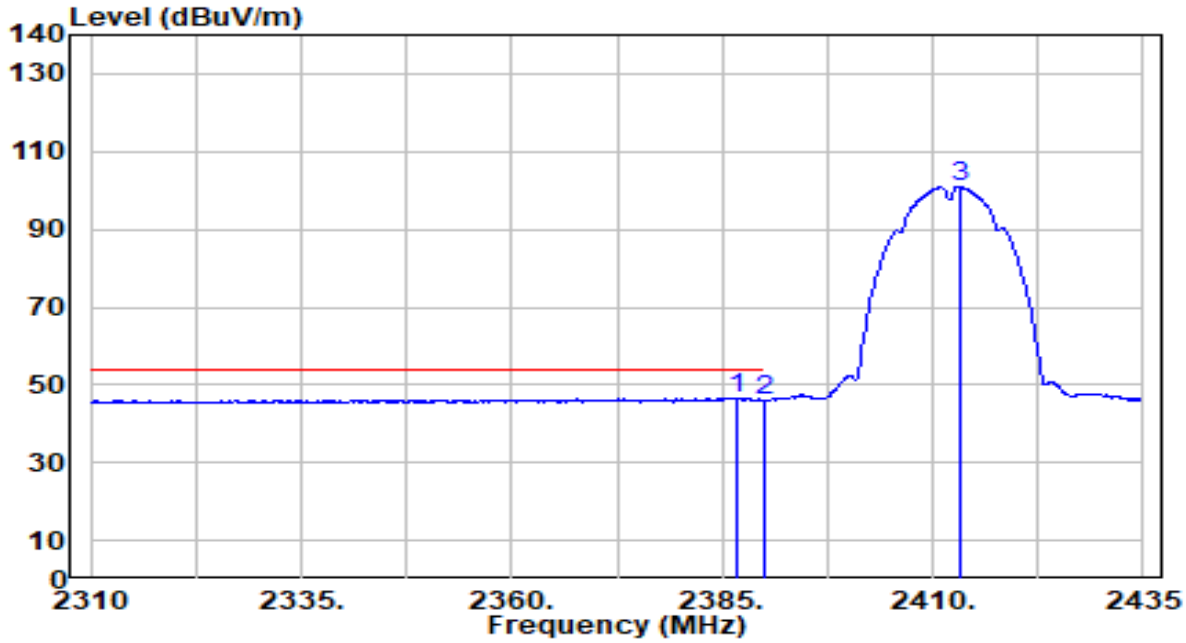


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2388.000	28.62	30.61	59.23	-14.77	74.00	100	350	Peak
2		2390.000	27.35	30.61	57.97	-16.03	74.00	100	350	Peak
3		2412.125	74.31	30.67	104.97	N/A	N/A	100	350	Peak

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

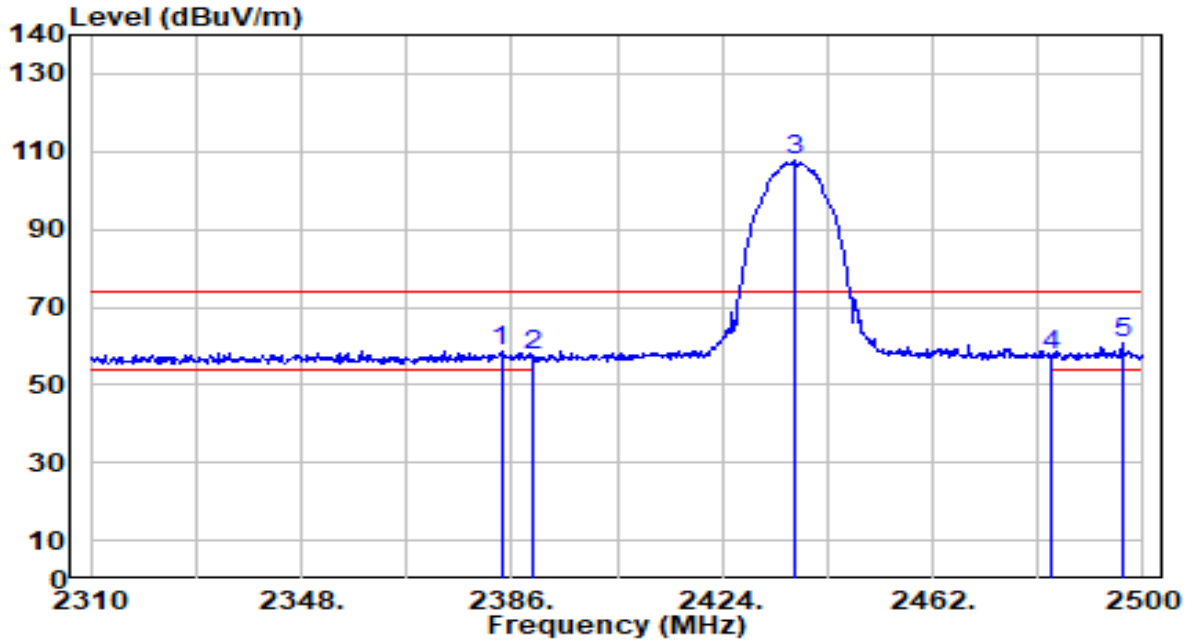


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2386.750	16.14	30.61	46.75	-7.25	54.00	100	350	Average
2		2390.000	15.23	30.61	45.85	-8.15	54.00	100	350	Average
3		2413.125	70.30	30.67	100.98	N/A	N/A	100	350	Average

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

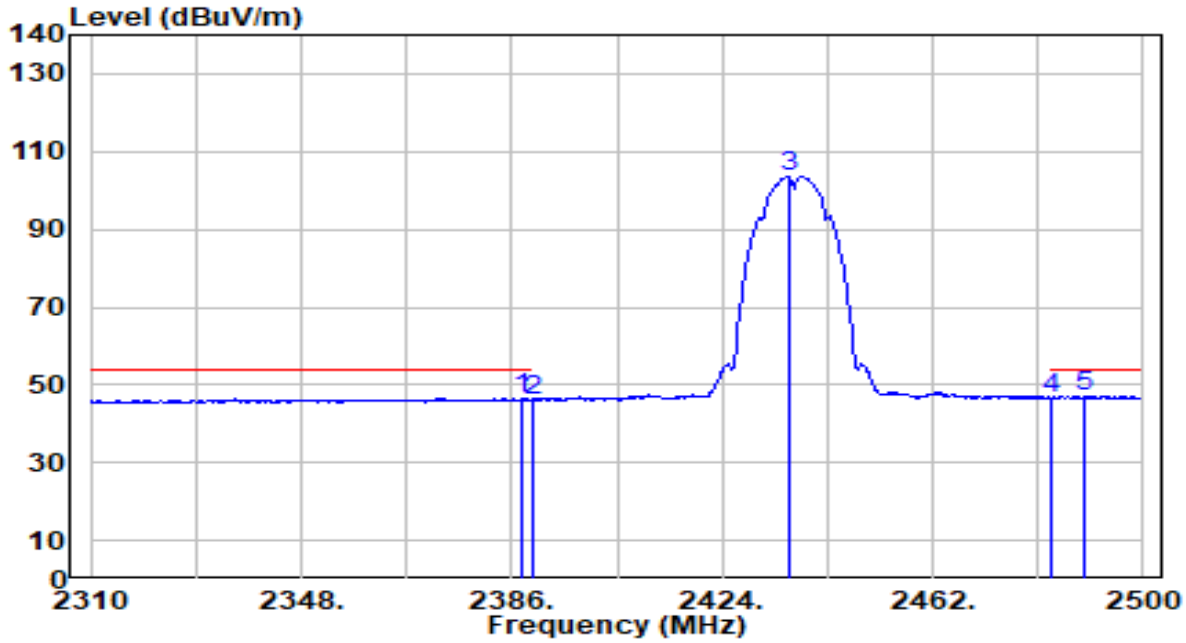


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2384.100	28.06	30.61	58.66	-15.34	74.00	105	160	Peak
2		2390.000	26.82	30.61	57.44	-16.56	74.00	105	160	Peak
3		2436.920	76.78	30.75	107.54	N/A	N/A	105	160	Peak
4		2483.500	26.60	30.91	57.51	-16.49	74.00	105	160	Peak
5	*	2496.200	29.62	30.96	60.58	-13.42	74.00	105	160	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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

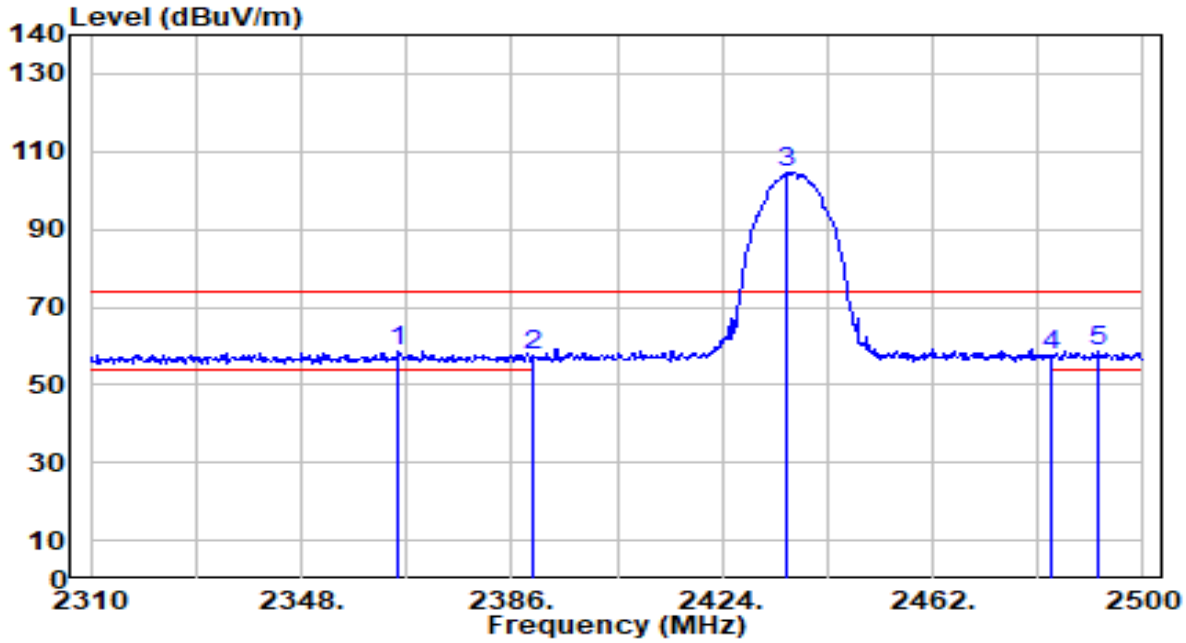


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2387.710	15.83	30.61	46.44	-7.56	54.00	105	160	Average
2		2390.000	15.47	30.61	46.08	-7.92	54.00	105	160	Average
3		2435.970	72.97	30.75	103.72	N/A	N/A	105	160	Average
4		2483.500	15.69	30.91	46.61	-7.39	54.00	105	160	Average
5	*	2489.170	16.09	30.93	47.02	-6.98	54.00	105	160	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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

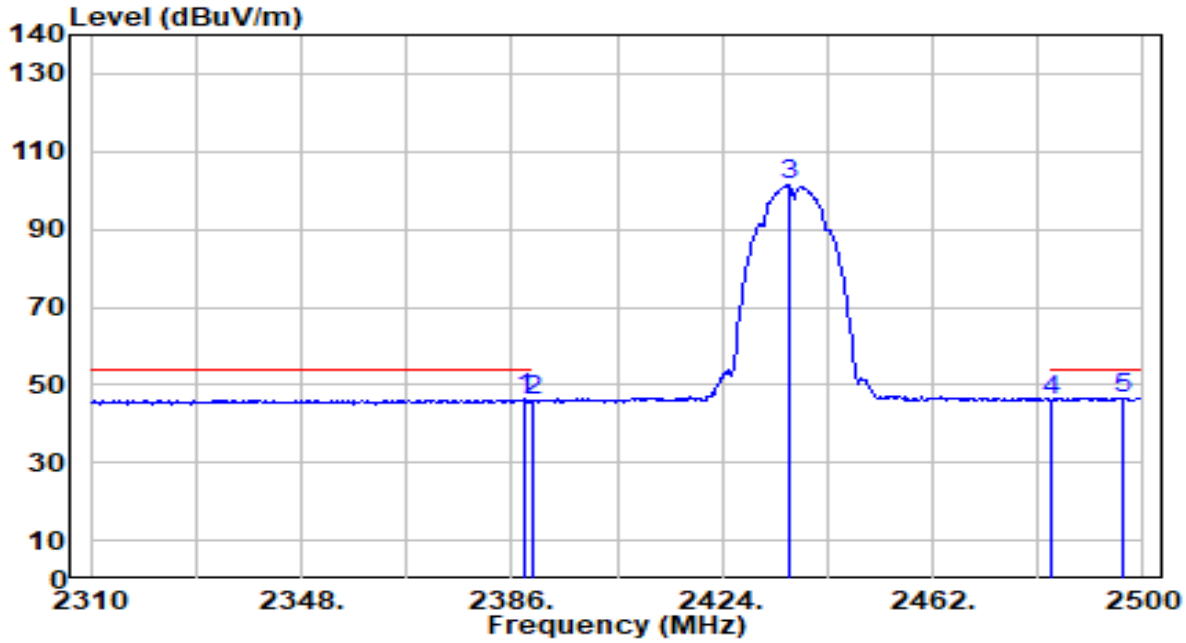


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2365.670	27.97	30.58	58.55	-15.45	74.00	115	315	Peak
2		2390.000	26.78	30.61	57.39	-16.61	74.00	115	315	Peak
3		2435.780	74.06	30.75	104.81	N/A	N/A	115	315	Peak
4		2483.500	26.58	30.91	57.50	-16.50	74.00	115	315	Peak
5		2491.640	27.49	30.94	58.43	-15.57	74.00	115	315	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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

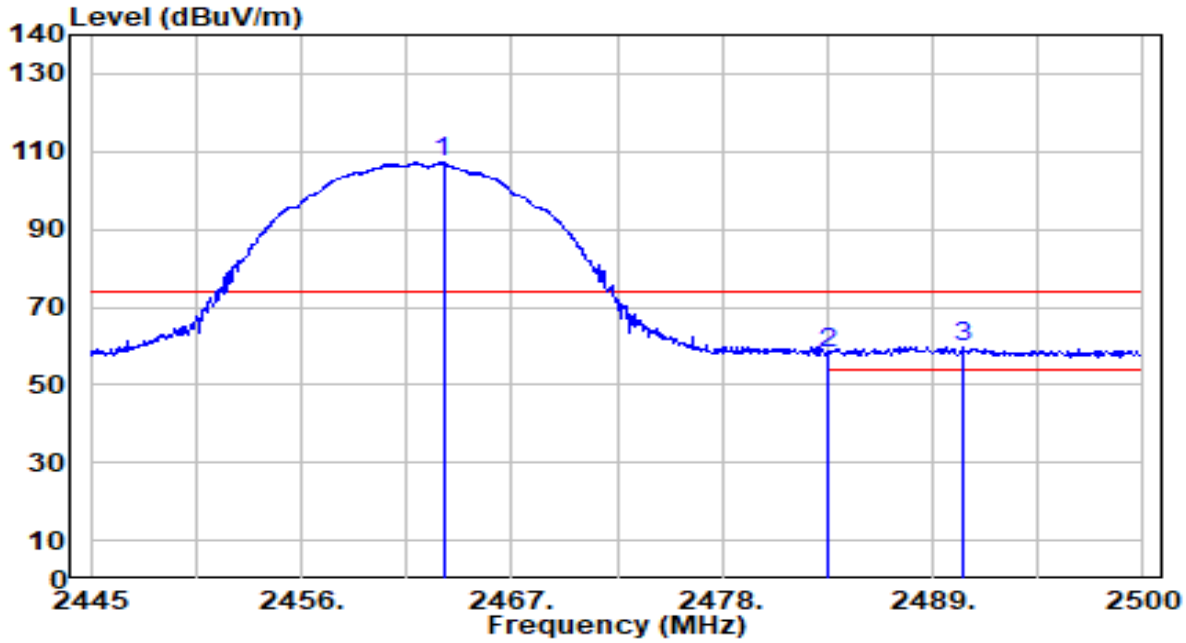


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2388.470	15.70	30.61	46.31	-7.69	54.00	115	315	Average
2		2390.000	15.16	30.61	45.77	-8.23	54.00	115	315	Average
3		2435.970	70.55	30.75	101.30	N/A	N/A	115	315	Average
4		2483.500	15.18	30.91	46.09	-7.91	54.00	115	315	Average
5	*	2496.390	15.64	30.96	46.60	-7.40	54.00	115	315	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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

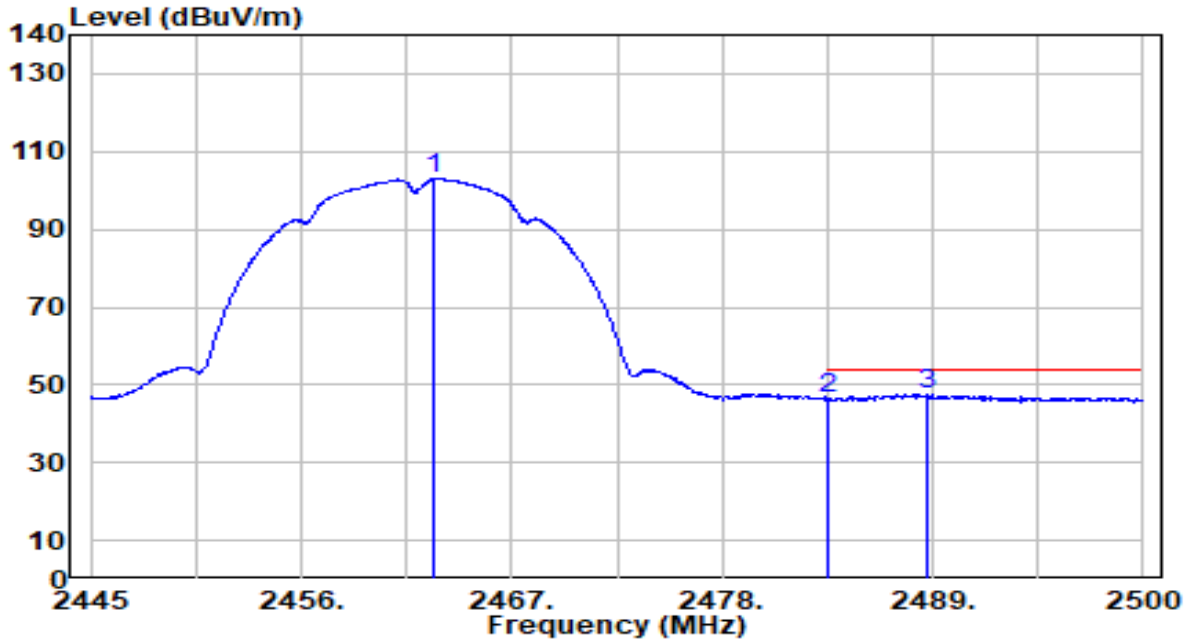


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2463.425	76.25	30.84	107.09	N/A	N/A	100	160	Peak
2		2483.500	27.33	30.91	58.24	-15.76	74.00	100	160	Peak
3	*	2490.595	28.71	30.94	59.65	-14.35	74.00	100	160	Peak

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

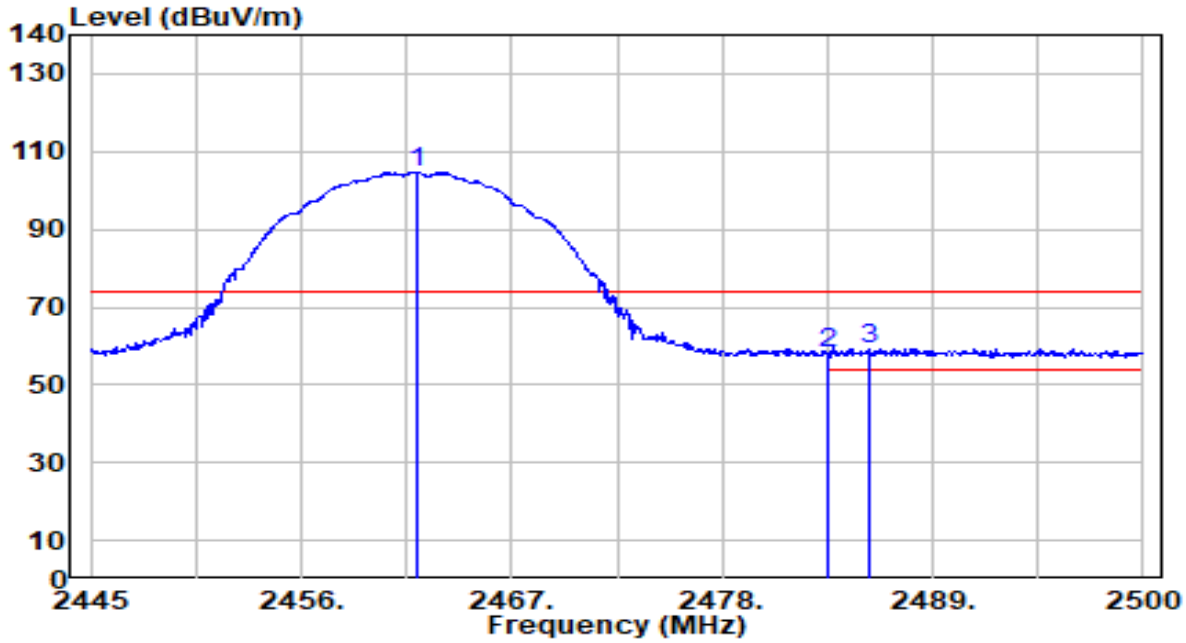


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2462.985	72.11	30.84	102.95	N/A	N/A	100	160	Average
2		2483.500	15.64	30.91	46.55	-7.45	54.00	100	160	Average
3	*	2488.670	16.57	30.93	47.50	-6.50	54.00	100	160	Average

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

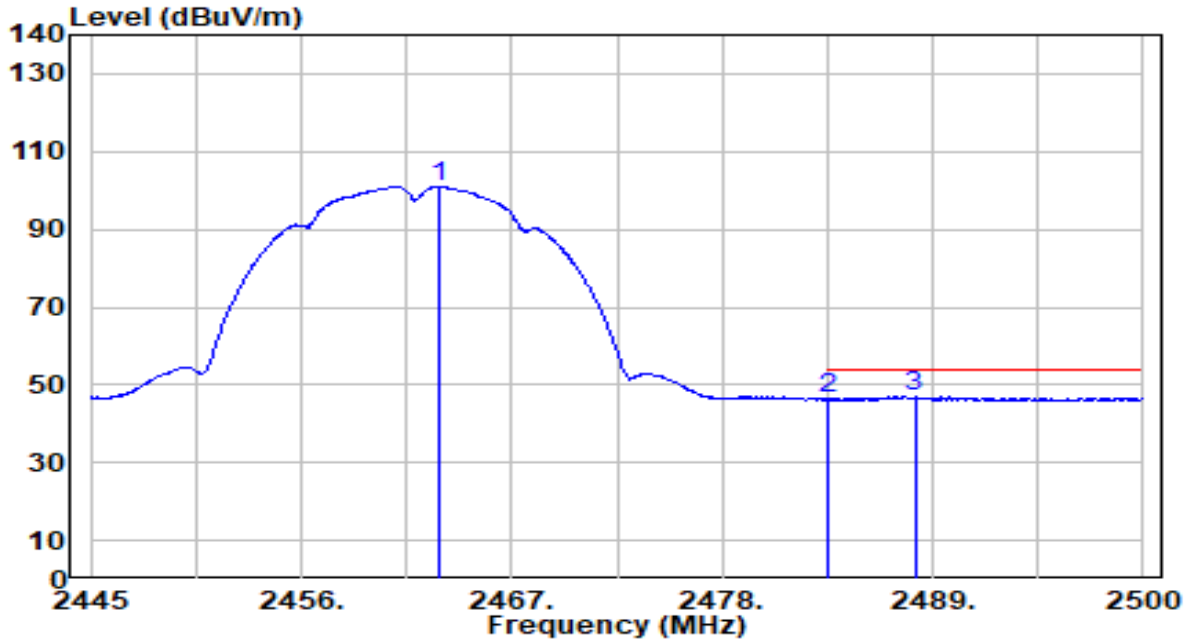


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2461.995	74.01	30.84	104.85	N/A	N/A	100	350	Peak
2		2483.500	27.00	30.91	57.92	-16.08	74.00	100	350	Peak
3	*	2485.700	28.49	30.92	59.41	-14.59	74.00	100	350	Peak

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11b_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

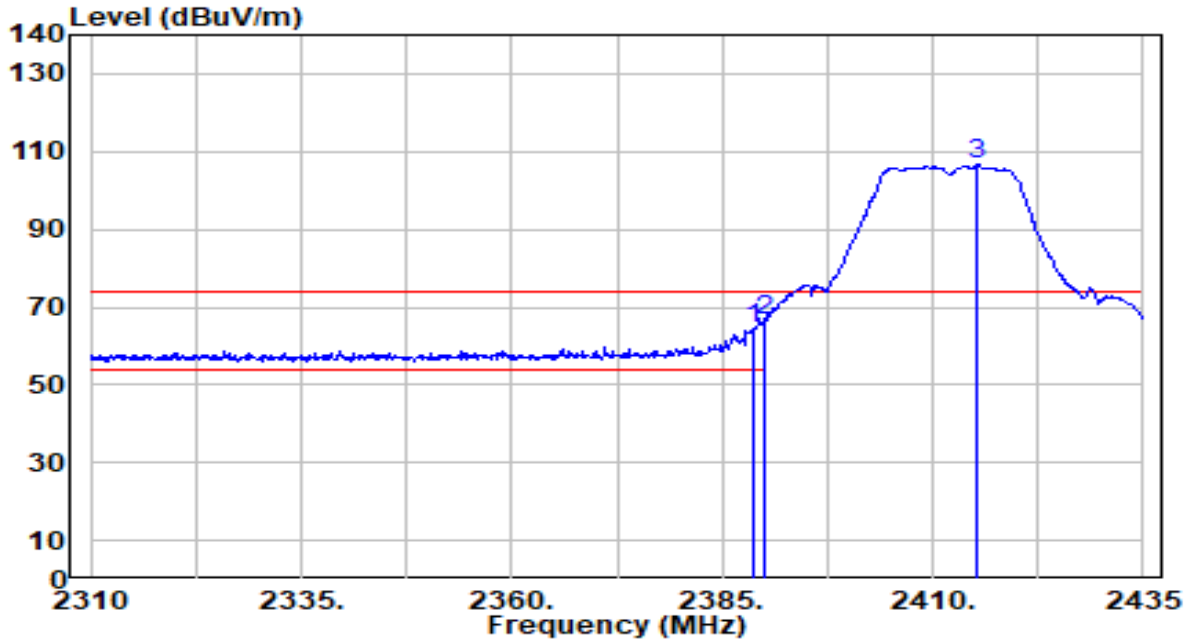


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2463.150	70.08	30.84	100.92	N/A	N/A	100	350	Average
2		2483.500	15.43	30.91	46.34	-7.66	54.00	100	350	Average
3	*	2488.065	16.02	30.93	46.95	-7.05	54.00	100	350	Average

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

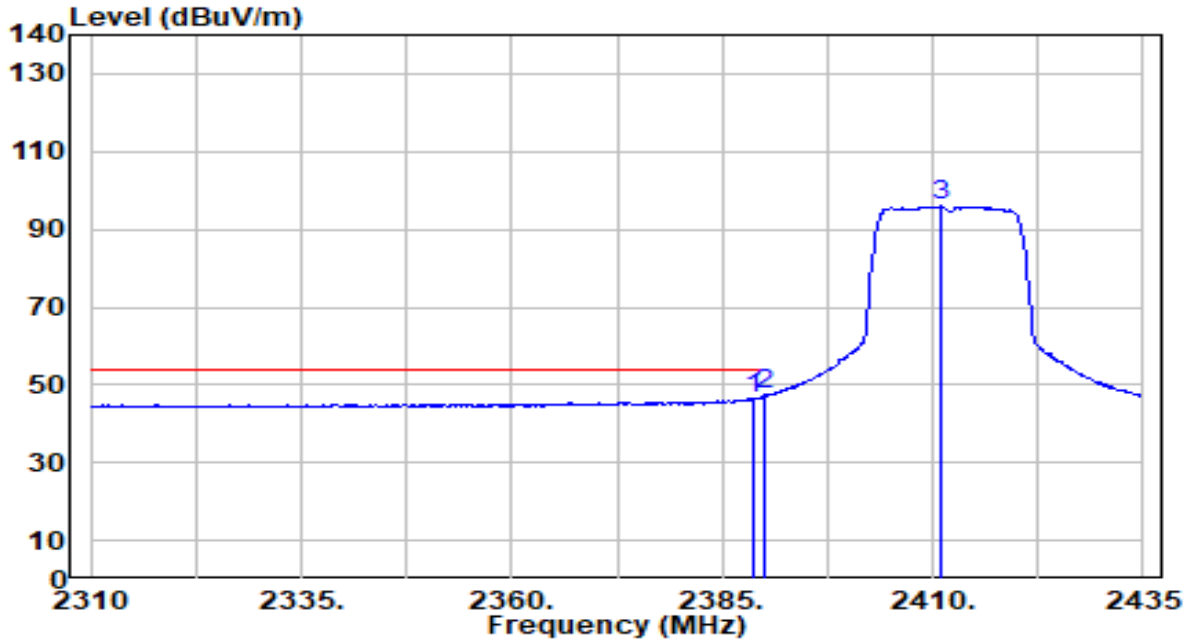


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2388.750	34.01	30.61	64.62	-9.38	74.00	100	155	Peak
2	*	2390.000	35.79	30.61	66.40	-7.60	74.00	100	155	Peak
3		2415.250	75.95	30.68	106.63	N/A	N/A	100	155	Peak

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

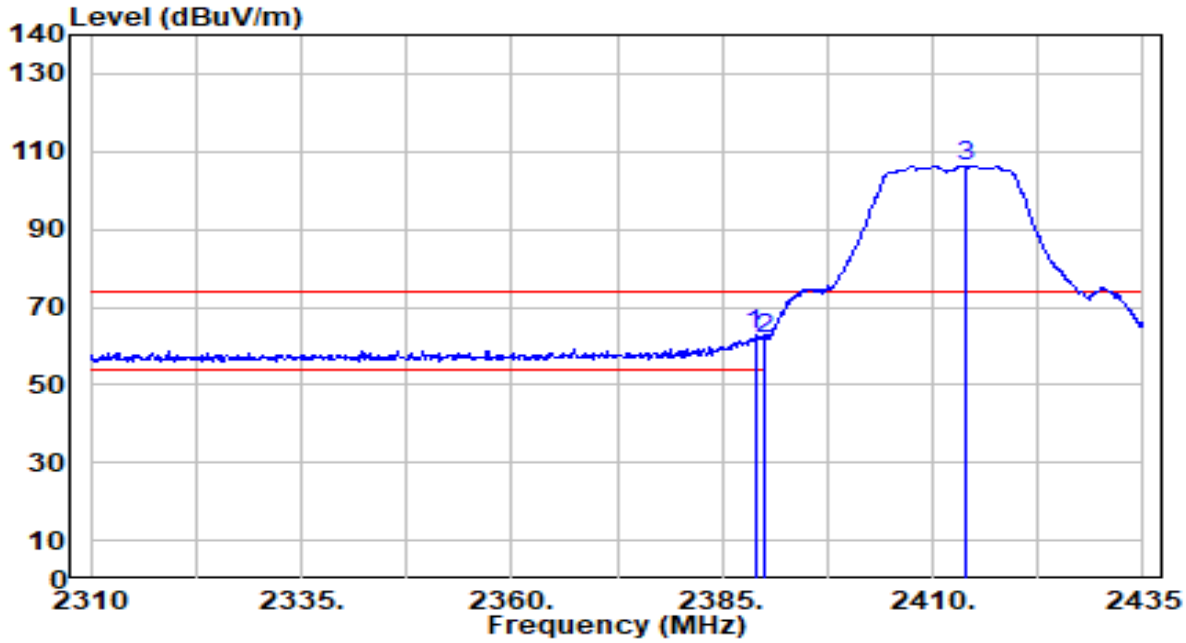


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2388.750	16.03	30.61	46.64	-7.36	54.00	100	155	Average
2	*	2390.000	16.73	30.61	47.35	-6.65	54.00	100	155	Average
3		2410.875	65.29	30.67	95.96	N/A	N/A	100	155	Average

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

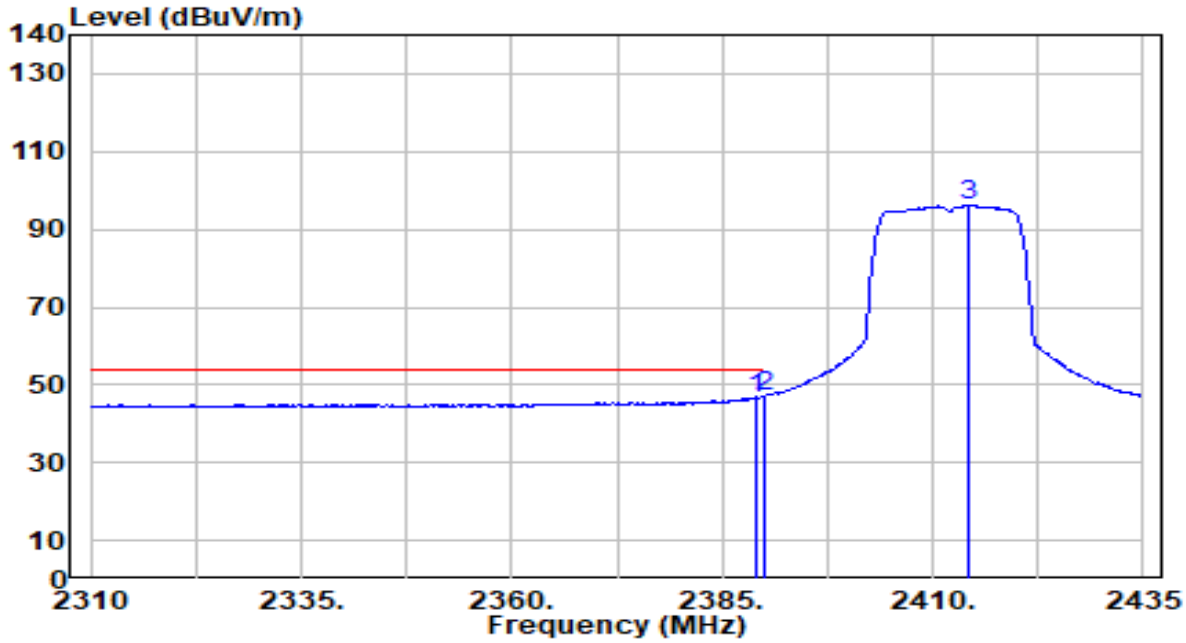


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2388.875	32.19	30.61	62.80	-11.20	74.00	100	350	Peak
2		2390.000	31.45	30.61	62.07	-11.93	74.00	100	350	Peak
3		2413.875	75.72	30.68	106.40	N/A	N/A	100	350	Peak

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

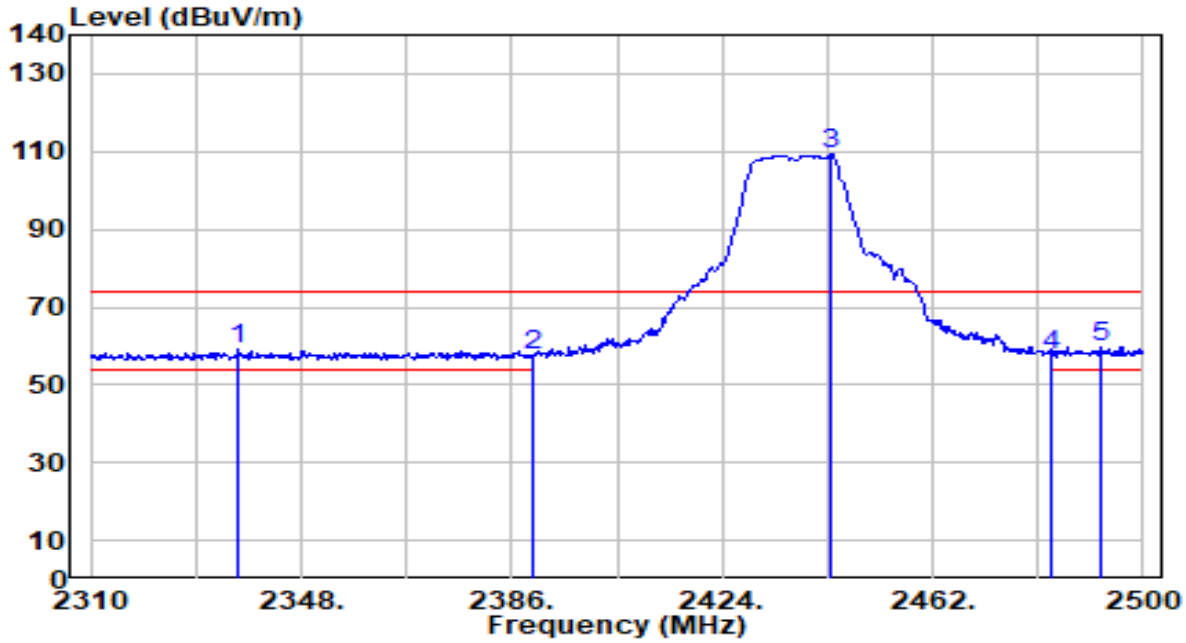


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2389.000	15.98	30.61	46.59	-7.41	54.00	100	350	Average
2	*	2390.000	16.51	30.61	47.13	-6.87	54.00	100	350	Average
3		2414.125	65.53	30.68	96.20	N/A	N/A	100	350	Average

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

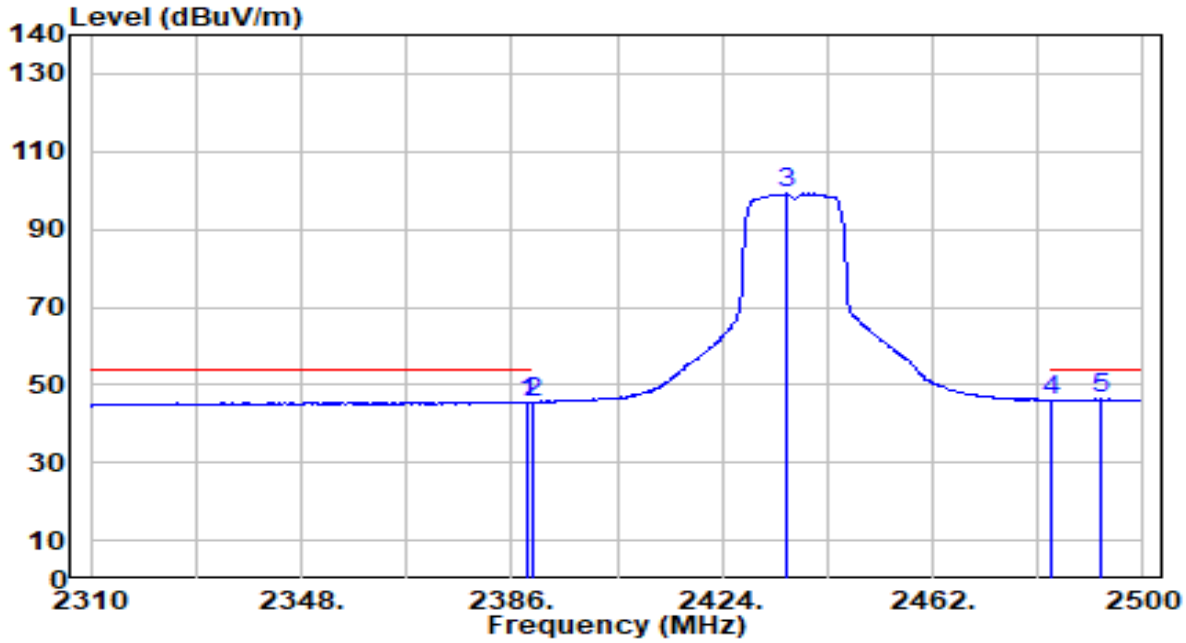


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2336.790	28.37	30.54	58.91	-15.09	74.00	105	160	Peak
2		2390.000	26.97	30.61	57.59	-16.41	74.00	105	160	Peak
3		2443.760	78.36	30.78	109.14	N/A	N/A	105	160	Peak
4		2483.500	26.50	30.91	57.41	-16.59	74.00	105	160	Peak
5	*	2492.400	28.89	30.94	59.83	-14.17	74.00	105	160	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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

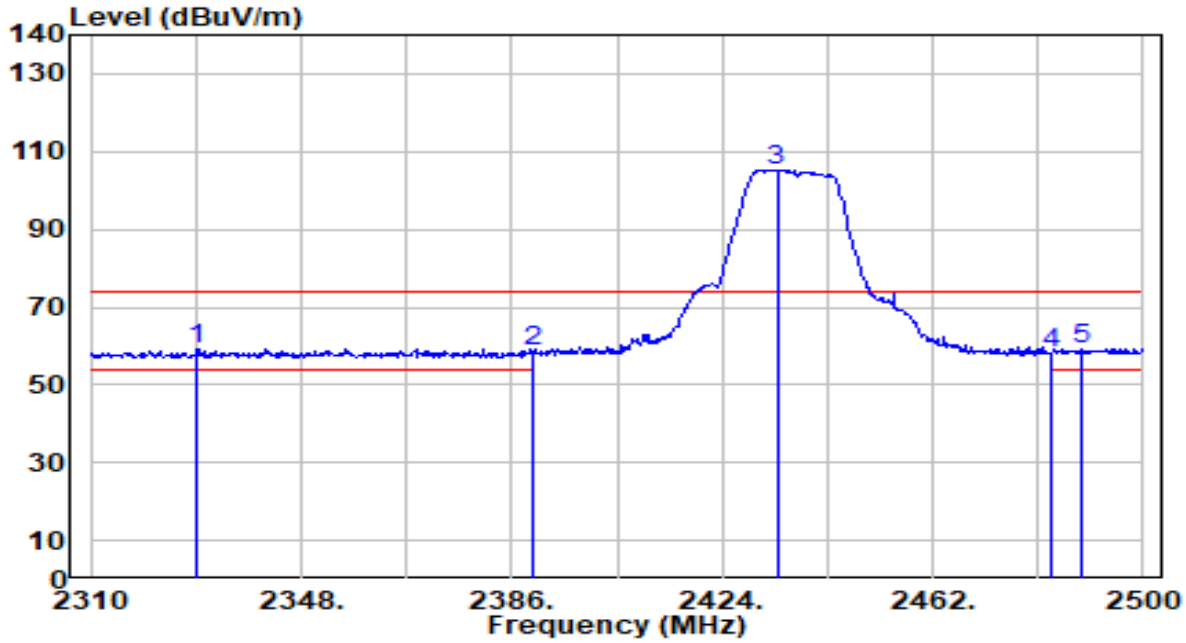


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2389.040	15.04	30.61	45.65	-8.35	54.00	105	160	Average
2		2390.000	14.96	30.61	45.57	-8.43	54.00	105	160	Average
3		2435.590	68.46	30.75	99.21	N/A	N/A	105	160	Average
4		2483.500	15.16	30.91	46.07	-7.93	54.00	105	160	Average
5	*	2492.590	15.52	30.94	46.47	-7.53	54.00	105	160	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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

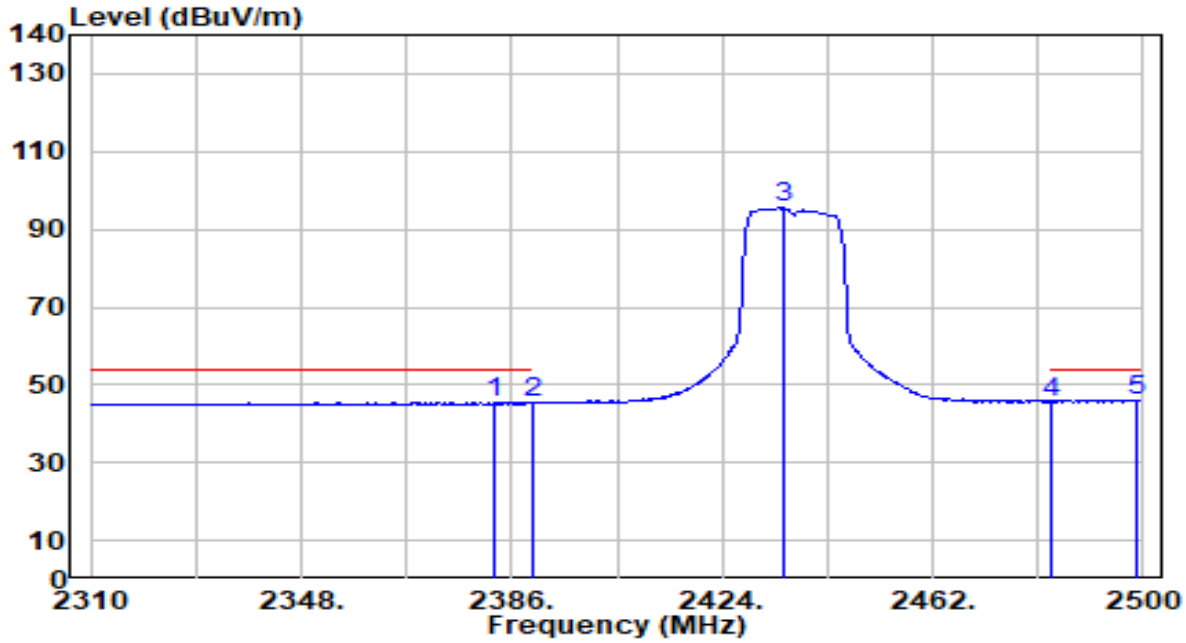


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2329.190	28.86	30.53	59.39	-14.61	74.00	115	315	Peak
2		2390.000	28.29	30.61	58.91	-15.09	74.00	115	315	Peak
3		2433.880	74.55	30.74	105.29	N/A	N/A	115	315	Peak
4		2483.500	27.43	30.91	58.34	-15.66	74.00	115	315	Peak
5		2488.790	28.43	30.93	59.36	-14.64	74.00	115	315	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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

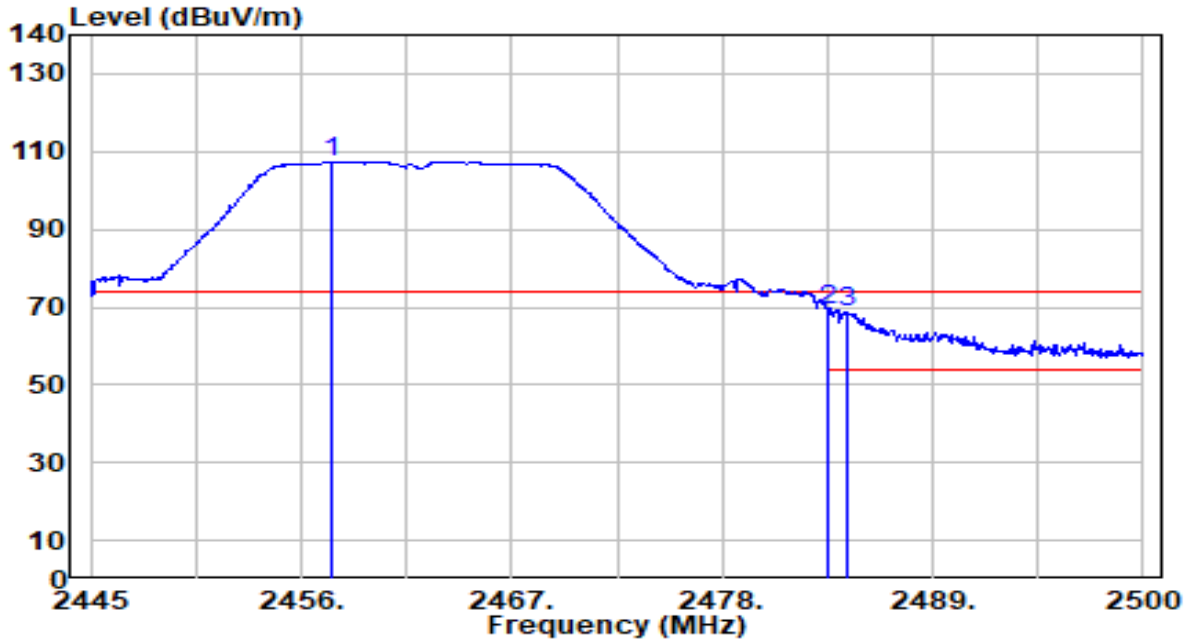


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2382.770	14.79	30.60	45.39	-8.61	54.00	115	315	Average
2		2390.000	14.99	30.61	45.60	-8.40	54.00	115	315	Average
3		2435.020	64.77	30.75	95.52	N/A	N/A	115	315	Average
4		2483.500	14.76	30.91	45.68	-8.32	54.00	115	315	Average
5	*	2498.860	15.13	30.97	46.10	-7.90	54.00	115	315	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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

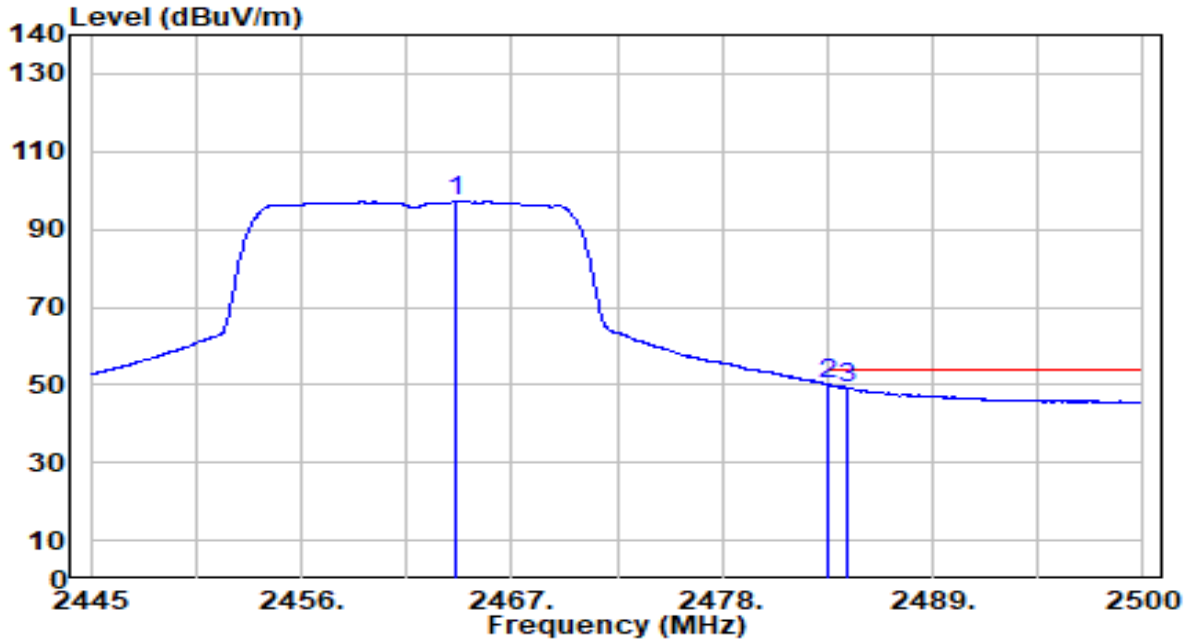


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2457.540	76.65	30.82	107.48	N/A	N/A	100	160	Peak
2	*	2483.500	38.50	30.91	69.42	-4.58	74.00	100	160	Peak
3		2484.545	37.66	30.92	68.57	-5.43	74.00	100	160	Peak

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

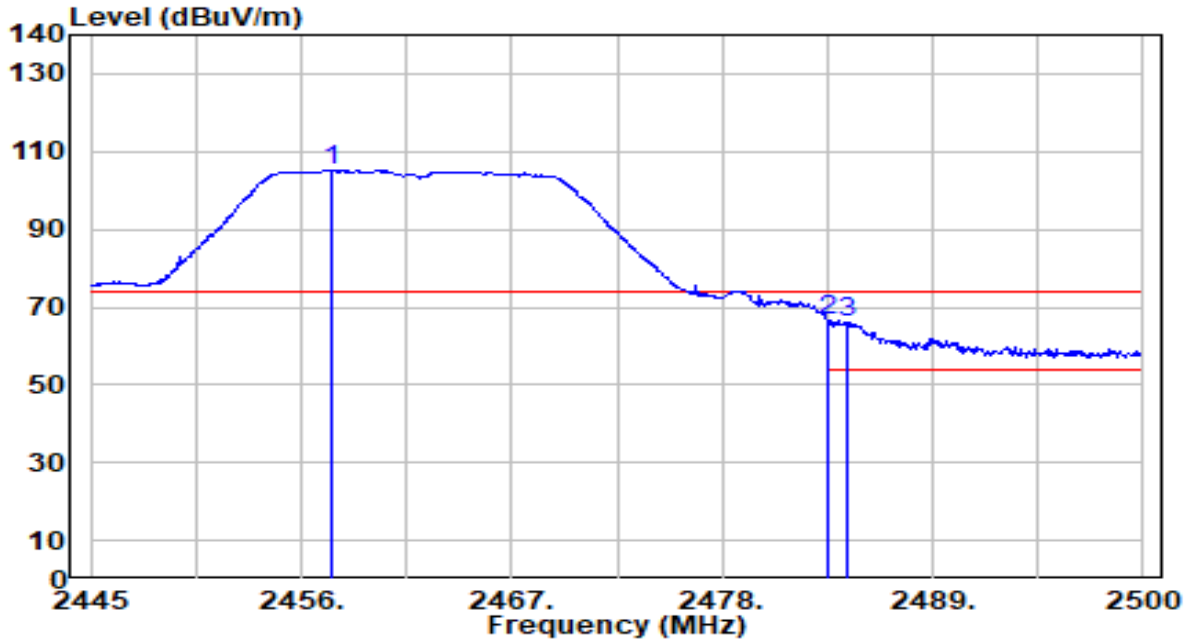


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2464.030	66.37	30.85	97.21	N/A	N/A	100	160	Average
2	*	2483.500	19.20	30.91	50.12	-3.88	54.00	100	160	Average
3		2484.490	18.23	30.92	49.15	-4.85	54.00	100	160	Average

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

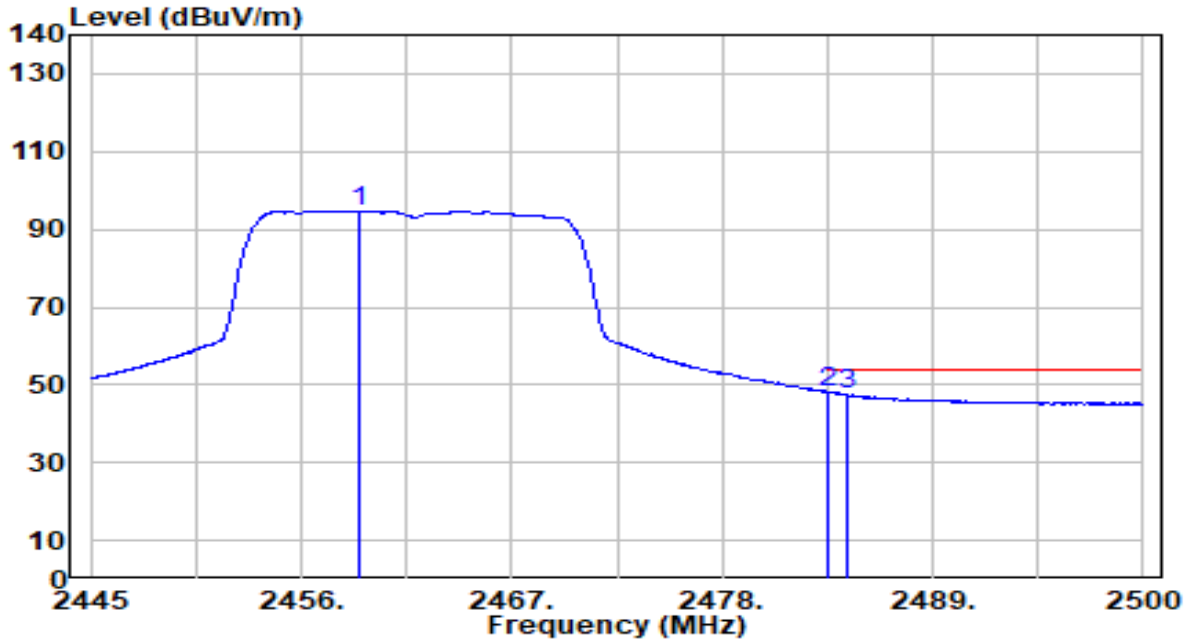


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2457.540	74.52	30.82	105.35	N/A	N/A	100	350	Peak
2	*	2483.500	35.87	30.91	66.78	-7.22	74.00	100	350	Peak
3		2484.545	35.11	30.92	66.03	-7.97	74.00	100	350	Peak

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11g_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

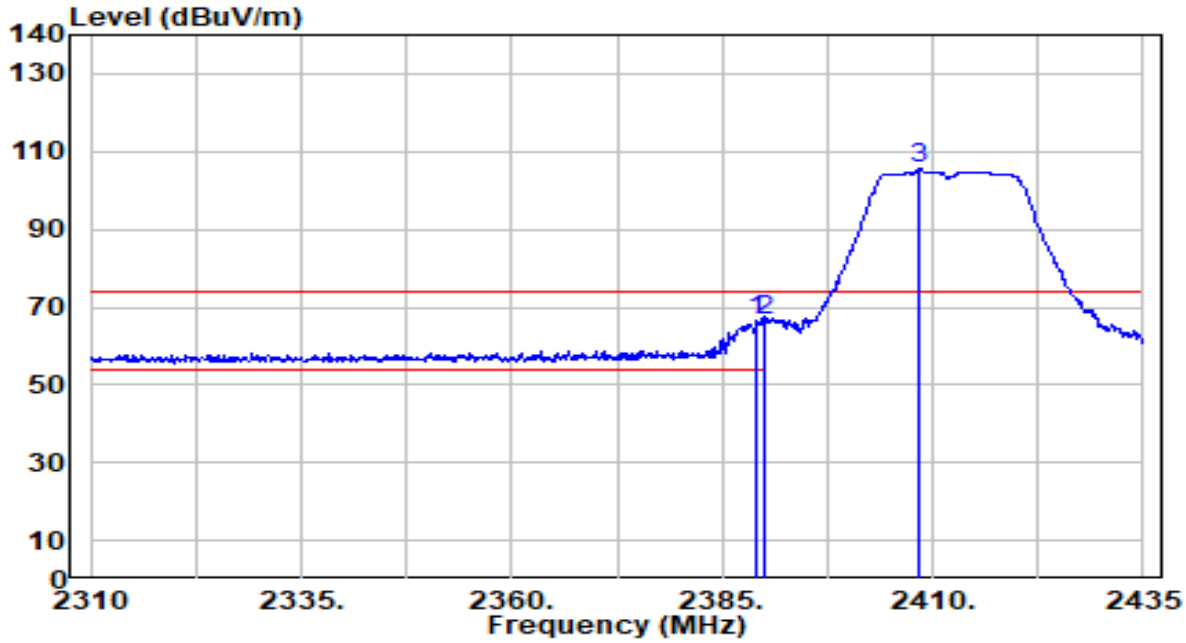


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2459.080	63.85	30.83	94.68	N/A	N/A	100	350	Average
2	*	2483.500	17.27	30.91	48.18	-5.82	54.00	100	350	Average
3		2484.490	16.68	30.92	47.60	-6.40	54.00	100	350	Average

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

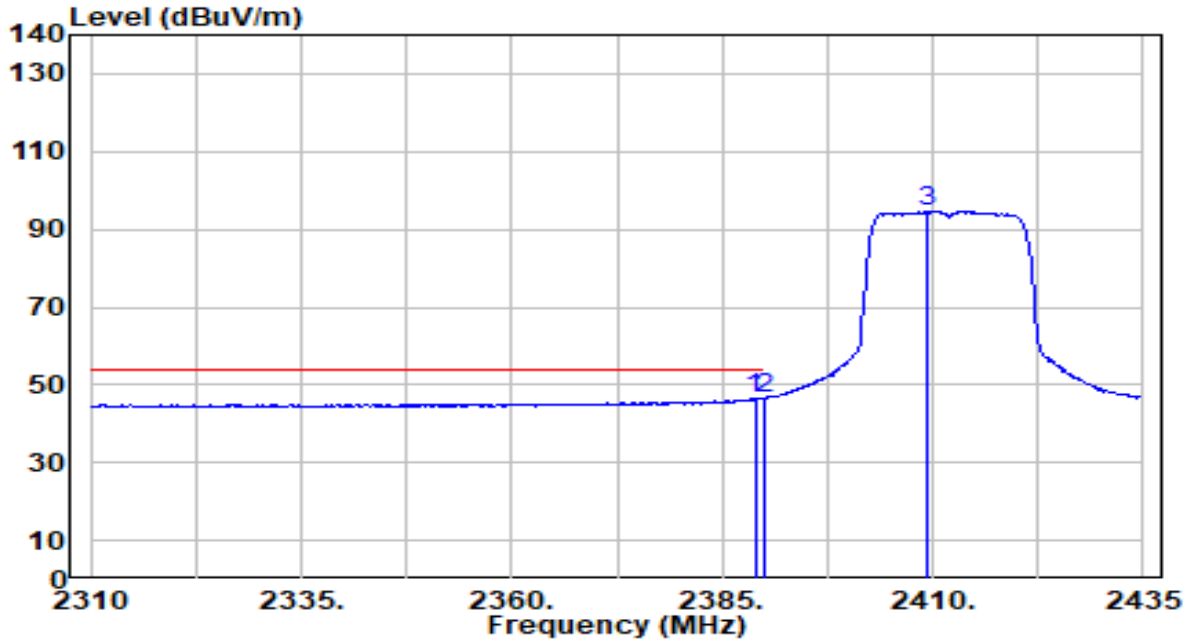


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2389.000	35.93	30.61	66.54	-7.46	74.00	100	155	Peak
2		2390.000	35.81	30.61	66.42	-7.58	74.00	100	155	Peak
3		2408.500	74.90	30.66	105.55	N/A	N/A	100	155	Peak

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

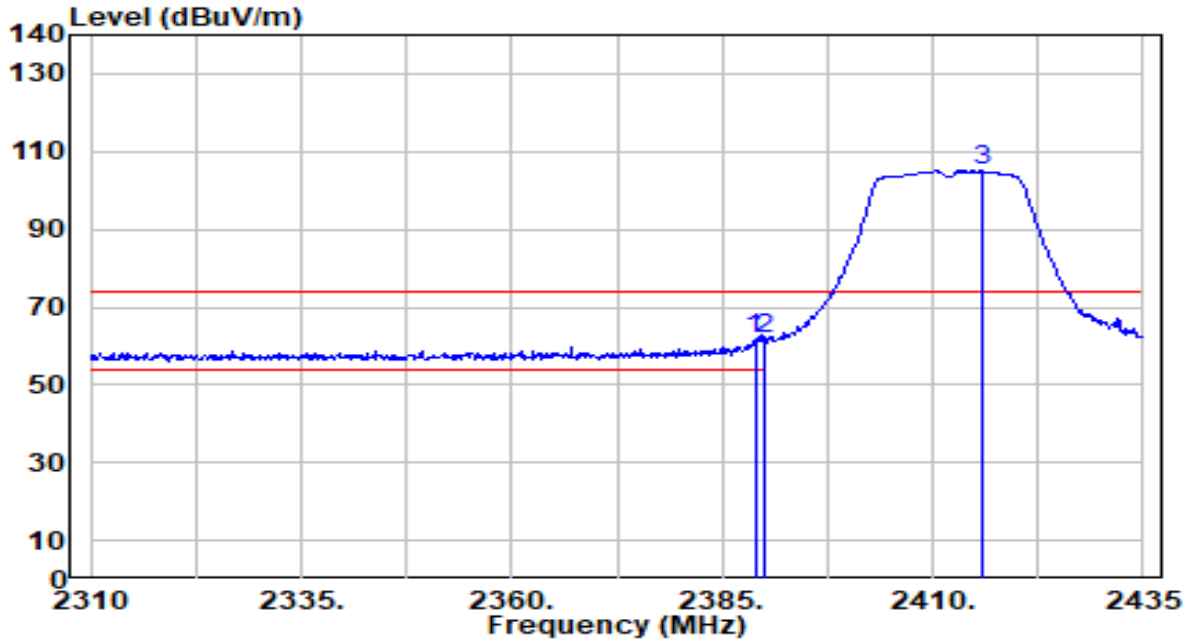


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2388.875	15.87	30.61	46.49	-7.51	54.00	100	155	Average
2	*	2390.000	15.94	30.61	46.55	-7.45	54.00	100	155	Average
3		2409.375	63.99	30.66	94.65	N/A	N/A	100	155	Average

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

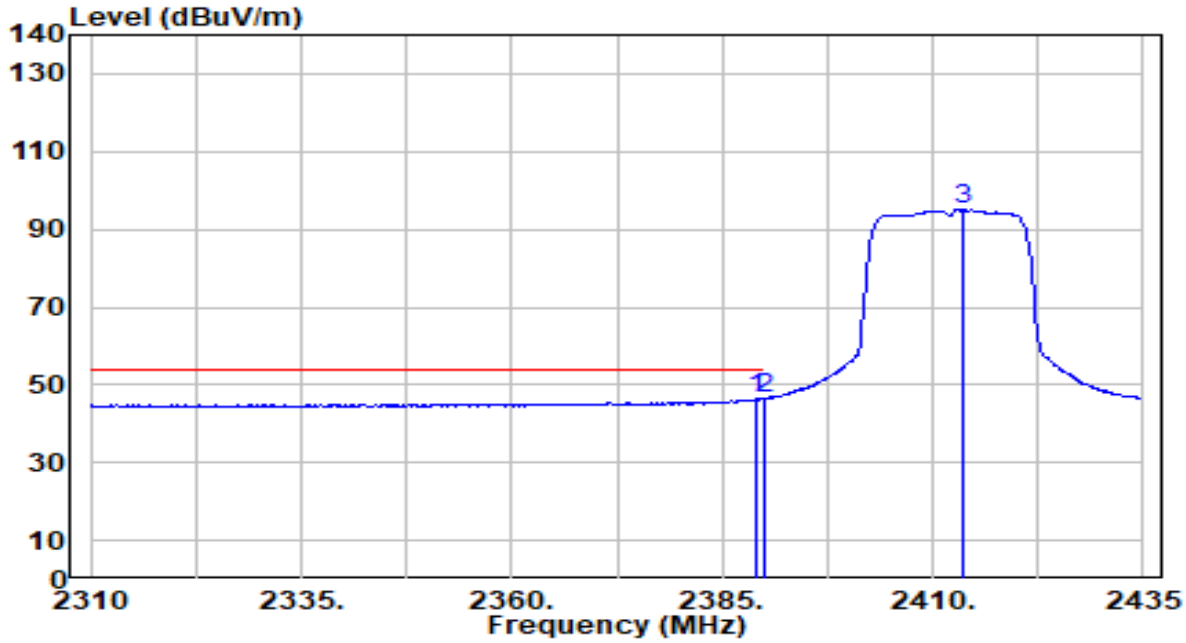


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2388.875	31.12	30.61	61.73	-12.27	74.00	100	350	Peak
2		2390.000	31.00	30.61	61.62	-12.38	74.00	100	350	Peak
3		2415.875	74.60	30.68	105.28	N/A	N/A	100	350	Peak

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 1_ANT 0	Test Voltage	AC 120V/60Hz

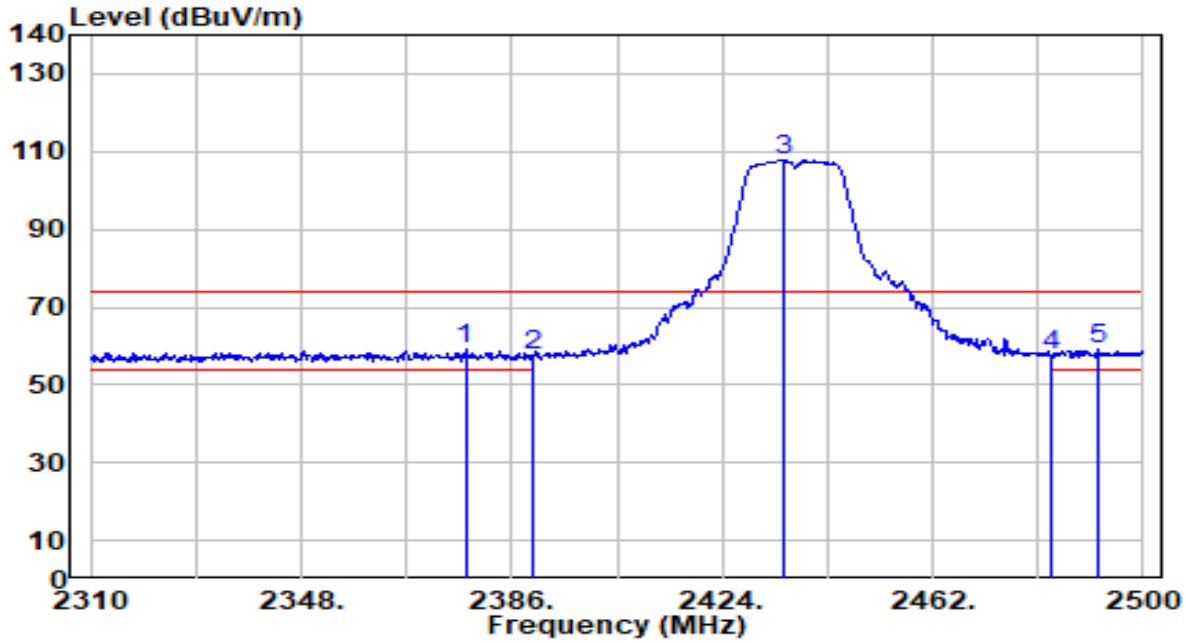


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2389.000	15.79	30.61	46.40	-7.60	54.00	100	350	Average
2	*	2390.000	15.92	30.61	46.53	-7.47	54.00	100	350	Average
3		2413.750	64.26	30.68	94.93	N/A	N/A	100	350	Average

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

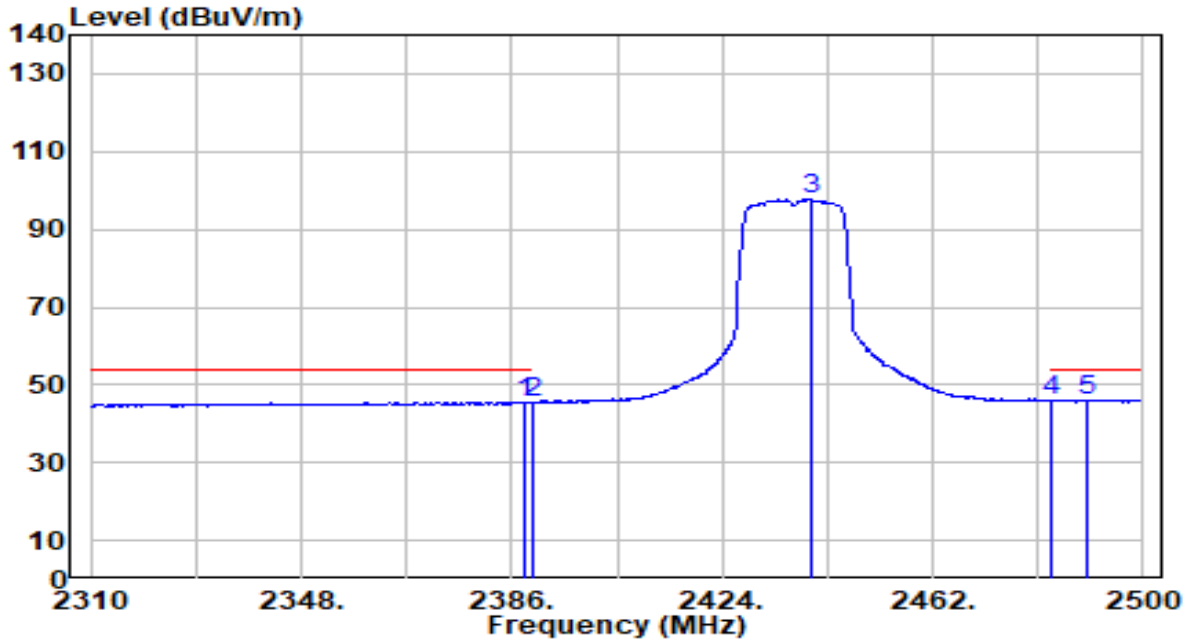


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2377.640	28.43	30.60	59.03	-14.97	74.00	105	160	Peak
2		2390.000	26.83	30.61	57.44	-16.56	74.00	105	160	Peak
3		2435.210	76.90	30.75	107.65	N/A	N/A	105	160	Peak
4		2483.500	26.66	30.91	57.58	-16.42	74.00	105	160	Peak
5		2492.020	28.07	30.94	59.01	-14.99	74.00	105	160	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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

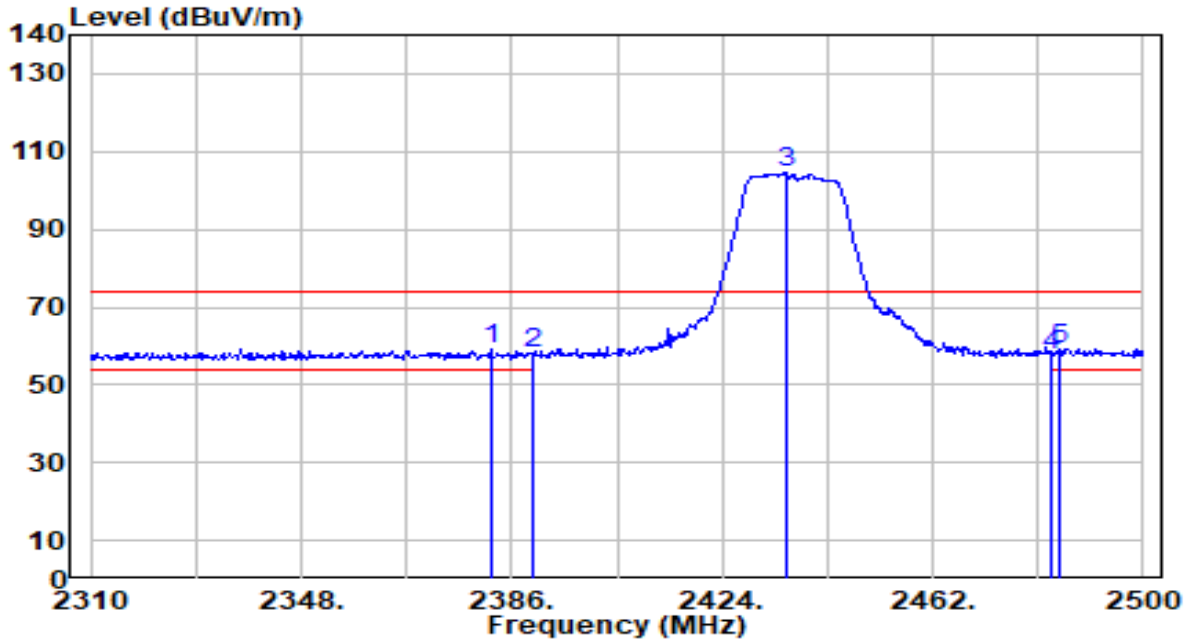


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2388.280	14.99	30.61	45.60	-8.40	54.00	105	160	Average
2		2390.000	14.79	30.61	45.41	-8.59	54.00	105	160	Average
3		2439.960	67.00	30.76	97.76	N/A	N/A	105	160	Average
4		2483.500	15.06	30.91	45.98	-8.02	54.00	105	160	Average
5	*	2489.740	15.16	30.93	46.09	-7.91	54.00	105	160	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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

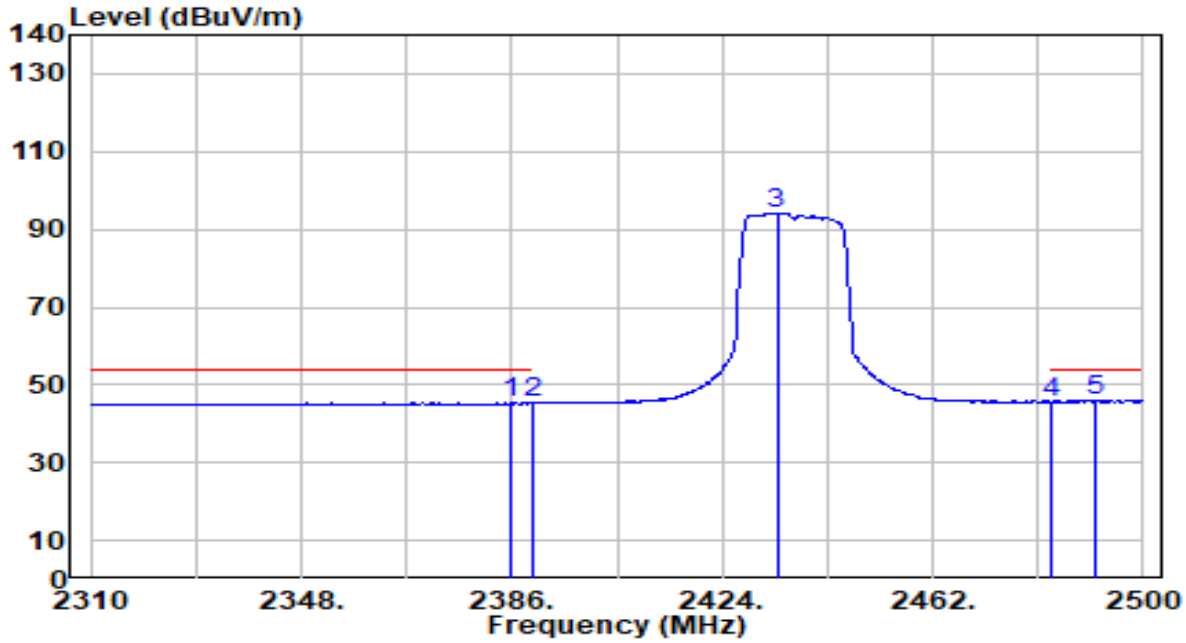


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2382.200	28.34	30.60	58.94	-15.06	74.00	115	315	Peak
2		2390.000	27.46	30.61	58.08	-15.92	74.00	115	315	Peak
3		2435.400	73.84	30.75	104.59	N/A	N/A	115	315	Peak
4		2483.500	26.91	30.91	57.82	-16.18	74.00	115	315	Peak
5	*	2484.800	28.47	30.92	59.39	-14.61	74.00	115	315	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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 6_ANT 0	Test Voltage	AC 120V/60Hz

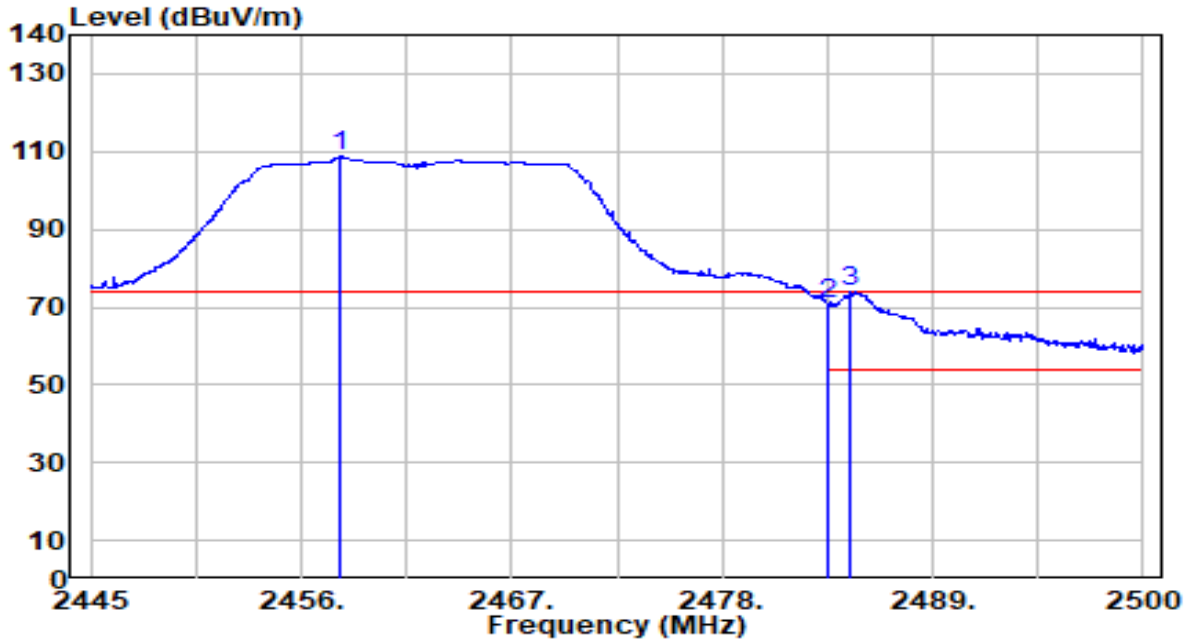


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2386.000	14.80	30.61	45.41	-8.59	54.00	115	315	Average
2		2390.000	14.76	30.61	45.37	-8.63	54.00	115	315	Average
3		2433.880	63.54	30.74	94.29	N/A	N/A	115	315	Average
4		2483.500	14.66	30.91	45.57	-8.43	54.00	115	315	Average
5	*	2491.260	15.10	30.94	46.04	-7.96	54.00	115	315	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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

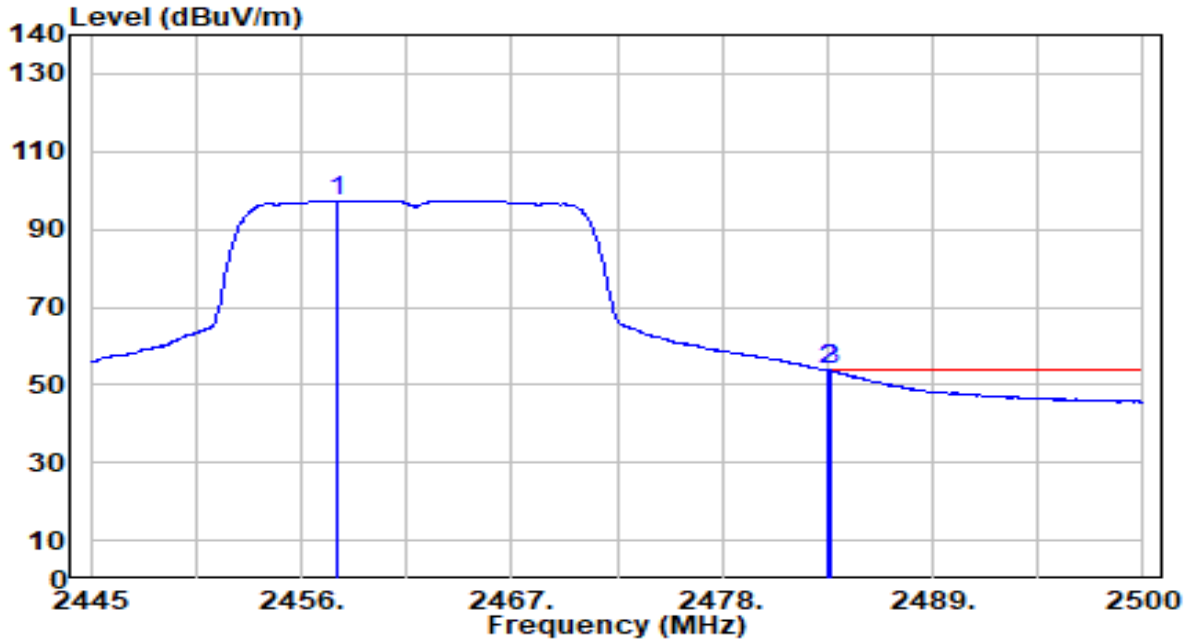


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2458.090	77.77	30.83	108.59	N/A	N/A	100	160	Peak
2		2483.500	39.72	30.91	70.63	-3.37	74.00	100	160	Peak
3	*	2484.710	42.99	30.92	73.90	-0.10	74.00	100	160	Peak

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

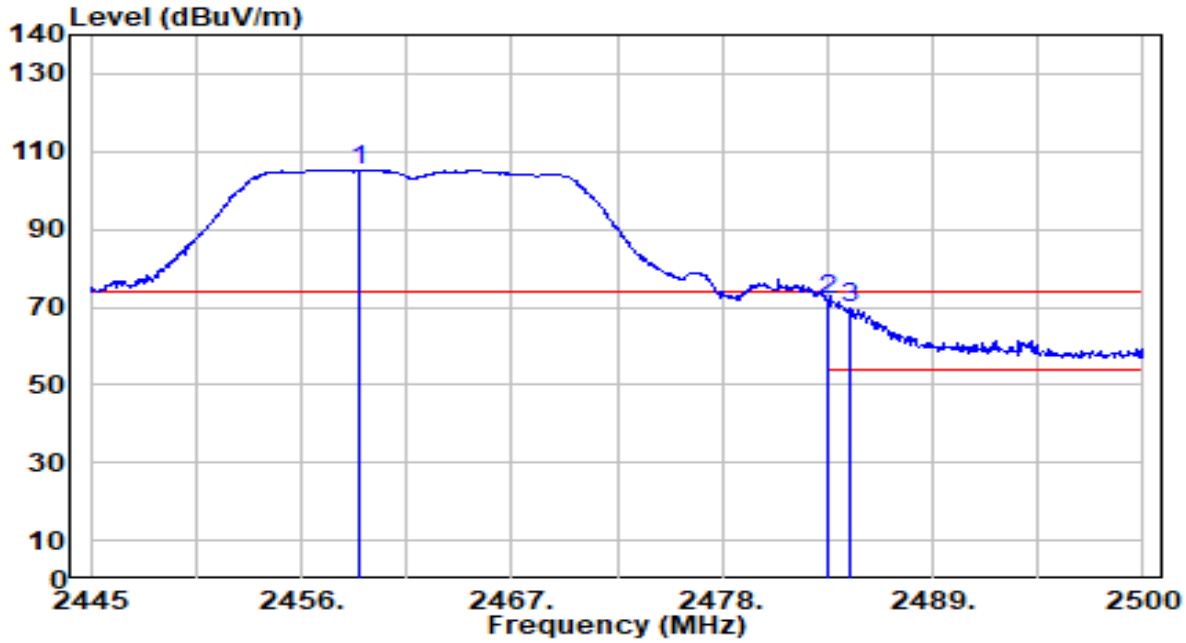


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2457.870	66.56	30.83	97.38	N/A	N/A	100	160	Average
2	*	2483.500	22.84	30.91	53.75	-0.25	54.00	100	160	Average
3		2483.665	22.81	30.91	53.73	-0.27	54.00	100	160	Average

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz

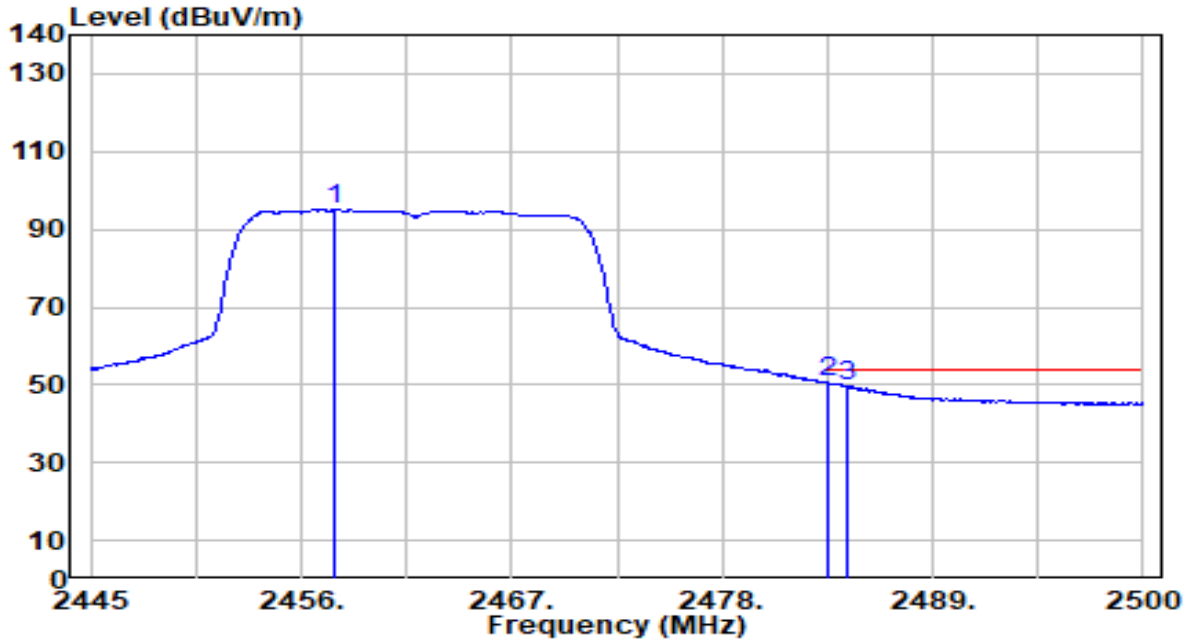


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2458.970	74.37	30.83	105.20	N/A	N/A	100	350	Peak
2	*	2483.500	41.07	30.91	71.98	-2.02	74.00	100	350	Peak
3		2484.655	38.76	30.92	69.68	-4.32	74.00	100	350	Peak

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-04
Factor	DRH18-E	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC2 / Jay
Test Mode	802.11n-20MHz_TX_CH 11_ANT 0	Test Voltage	AC 120V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2457.760	64.19	30.83	95.01	N/A	N/A	100	350	Average
2	*	2483.500	19.71	30.91	50.62	-3.38	54.00	100	350	Average
3		2484.490	18.68	30.92	49.59	-4.41	54.00	100	350	Average

Note:

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

7.8. AC Conducted Emissions Measurement

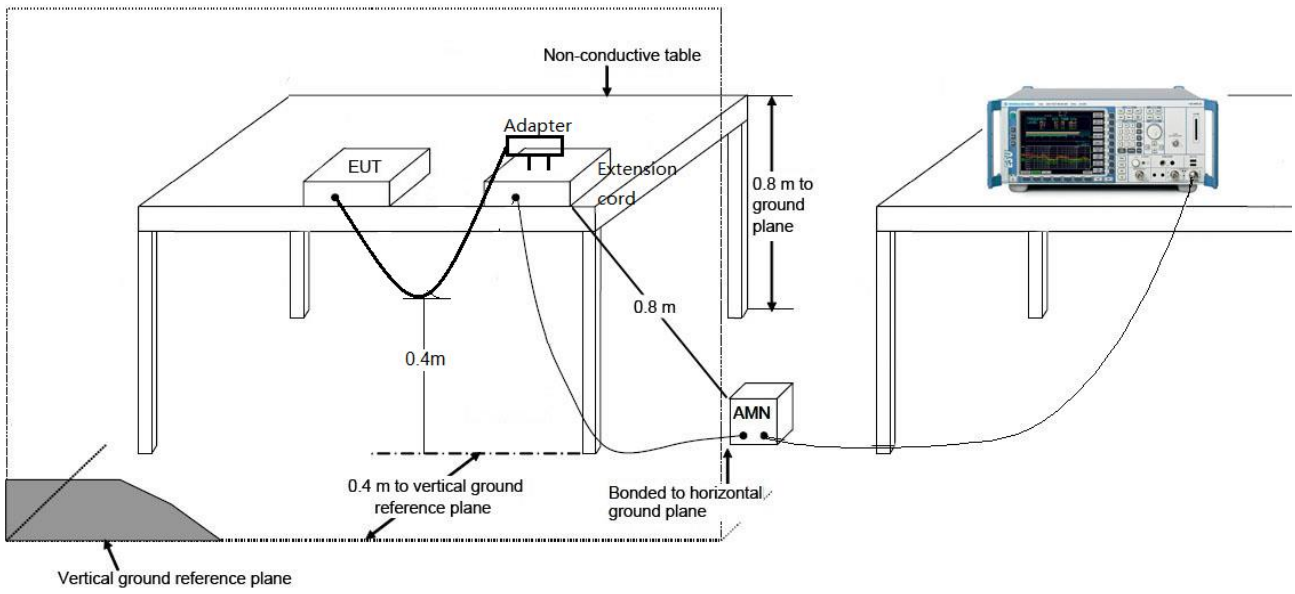
7.8.1.Test Limit

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

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

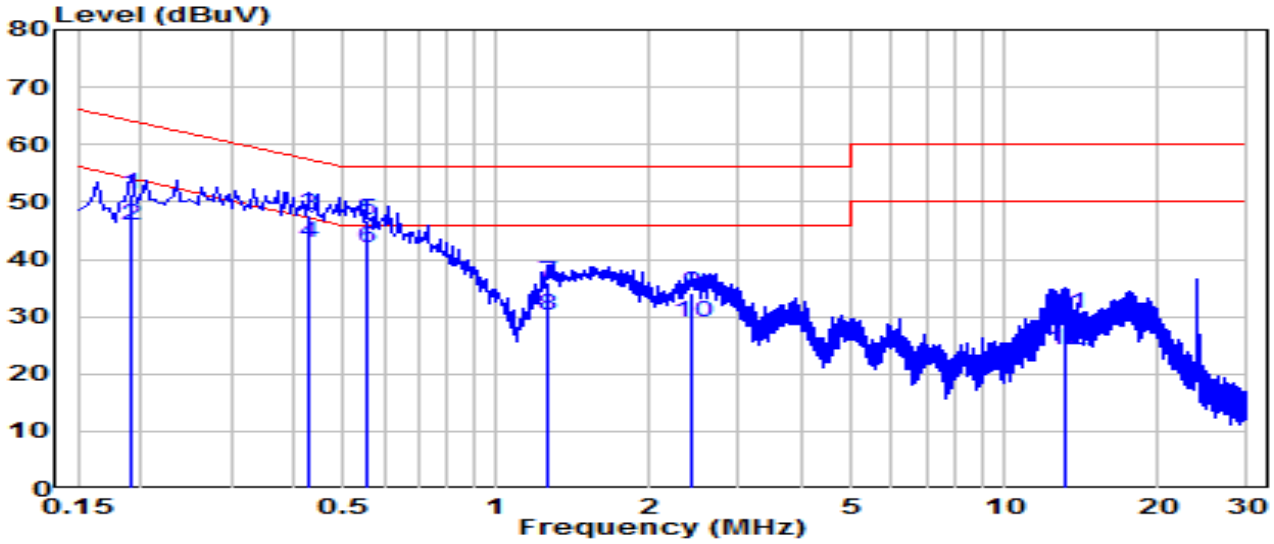
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2.Test Setup



7.8.3.Test Result

EUT	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-09
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	23.6°C /64%
Polarity	Line1	Site / Test Engineer	SR2 / Dio
Test Mode	802.11n-20MHz_TX_CH 6_ANT 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		0.190	41.71	9.62	51.34	-12.68	64.01	QP
2		0.190	36.35	9.62	45.97	-8.04	54.01	Average
3		0.424	38.08	9.64	47.72	-9.64	57.36	QP
4		0.424	33.28	9.64	42.91	-4.45	47.36	Average
5	*	0.555	37.17	9.64	46.81	-9.19	56.00	QP
6	*	0.555	32.19	9.64	41.84	-4.16	46.00	Average
7		1.261	26.25	9.68	35.93	-20.07	56.00	QP
8		1.261	20.43	9.68	30.11	-15.89	46.00	Average
9		2.413	24.44	9.70	34.14	-21.86	56.00	QP
10		2.413	19.39	9.70	29.09	-16.91	46.00	Average
11		13.190	20.56	9.88	30.44	-29.56	60.00	QP
12		13.190	14.42	9.88	24.30	-25.70	50.00	Average

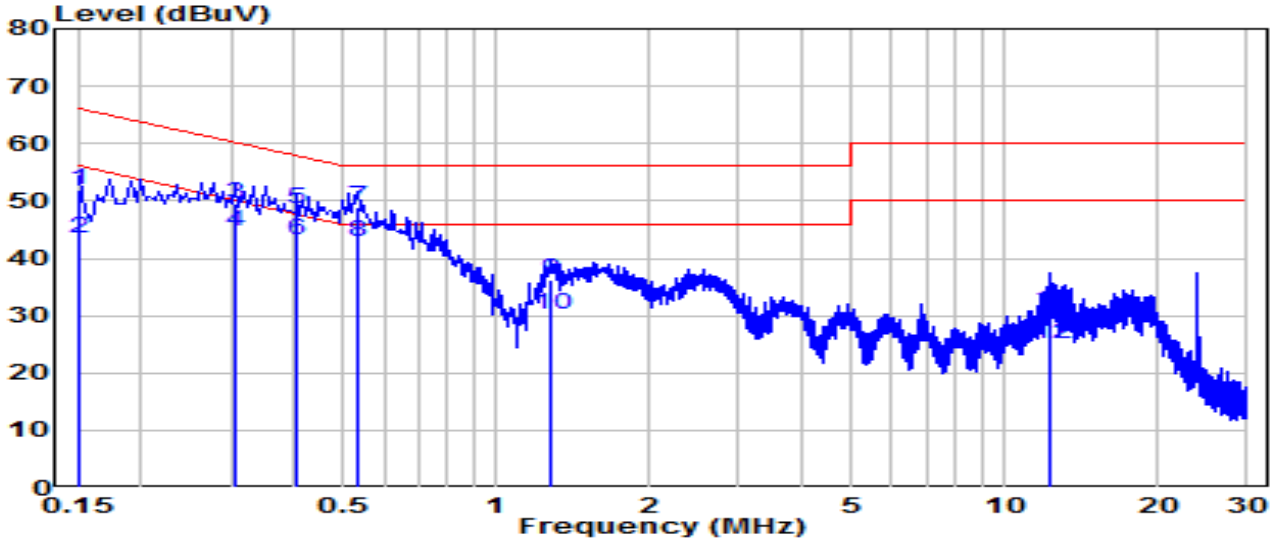
Note:

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-09
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	23.6°C /64%
Polarity	Neutral	Site / Test Engineer	SR2 / Dio
Test Mode	802.11n-20MHz_TX_CH 6_ANT 1	Test Voltage	AC 120V/60Hz

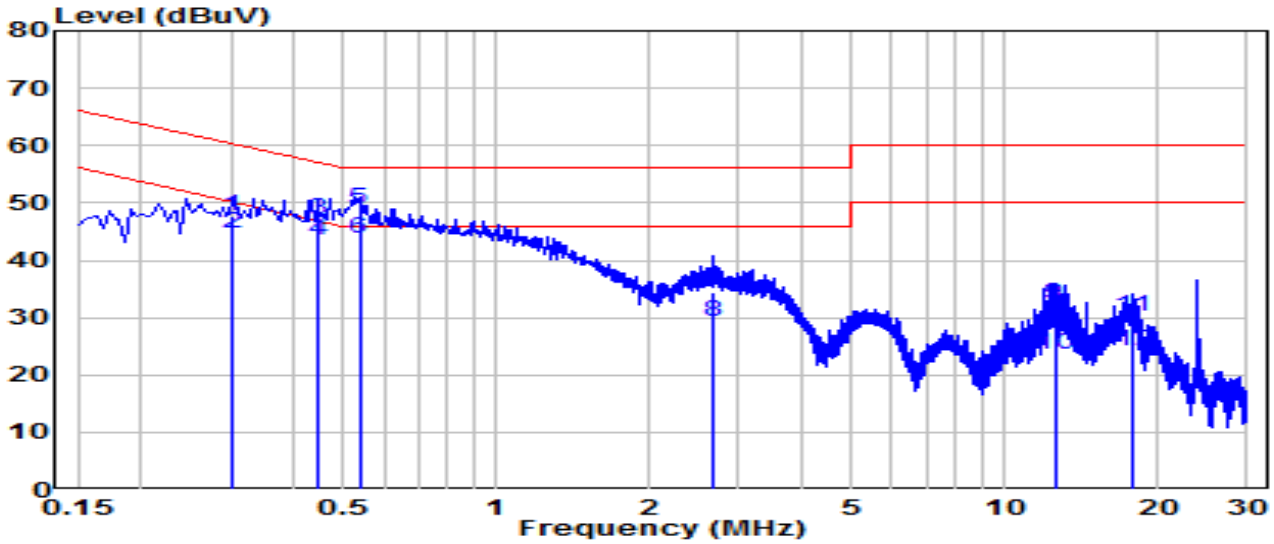


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1		0.150	42.15	9.62	51.77	-14.23	66.00	QP
2		0.150	33.92	9.62	43.54	-12.46	56.00	Average
3		0.307	39.94	9.63	49.57	-10.47	60.04	QP
4		0.307	35.04	9.63	44.67	-5.37	50.04	Average
5		0.406	38.89	9.63	48.53	-9.19	57.72	QP
6		0.406	33.62	9.63	43.26	-4.46	47.72	Average
7	*	0.532	39.16	9.64	48.80	-7.20	56.00	QP
8	*	0.532	33.27	9.64	42.91	-3.09	46.00	Average
9		1.279	26.58	9.68	36.25	-19.75	56.00	QP
10		1.279	20.53	9.68	30.20	-15.80	46.00	Average
11		12.330	21.03	9.90	30.93	-29.07	60.00	QP
12		12.330	15.25	9.90	25.15	-24.85	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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-09
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	23.6°C /64%
Polarity	Line1	Site / Test Engineer	SR2 / Dio
Test Mode	802.11n-20MHz_TX_CH 6_ANT 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		0.303	37.94	9.63	47.57	-12.59	60.16	QP
2		0.303	35.13	9.63	44.76	-5.40	50.16	Average
3		0.442	37.53	9.64	47.17	-9.84	57.02	QP
4		0.442	33.95	9.64	43.59	-3.43	47.02	Average
5	*	0.537	39.31	9.64	48.95	-7.05	56.00	QP
6	*	0.537	34.26	9.64	43.91	-2.09	46.00	Average
7		2.679	24.58	9.70	34.28	-21.72	56.00	QP
8		2.679	19.57	9.70	29.28	-16.72	46.00	Average
9		12.542	22.30	9.88	32.17	-27.83	60.00	QP
10		12.542	13.82	9.88	23.70	-26.30	50.00	Average
11		17.896	20.15	9.91	30.07	-29.93	60.00	QP
12		17.896	14.36	9.91	24.28	-25.72	50.00	Average

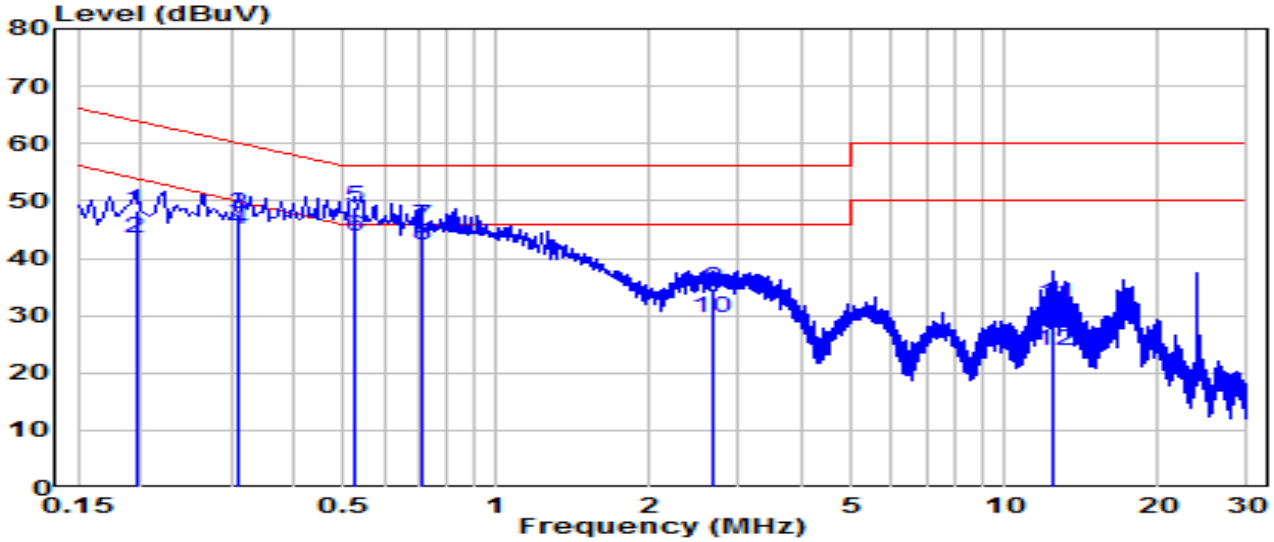
Note:

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	Smart Wi-Fi Lamp Dimmer	Date of Test	2022-11-09
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	23.6°C /64%
Polarity	Neutral	Site / Test Engineer	SR2 / Dio
Test Mode	802.11n-20MHz_TX_CH 6_ANT 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		0.195	38.62	9.62	48.24	-15.58	63.82	QP
2		0.195	33.74	9.62	43.37	-10.46	53.82	Average
3		0.312	38.07	9.63	47.70	-12.22	59.92	QP
4		0.312	35.23	9.63	44.86	-5.06	49.92	Average
5	*	0.528	39.28	9.64	48.93	-7.07	56.00	QP
6	*	0.528	34.15	9.64	43.79	-2.21	46.00	Average
7		0.712	35.82	9.65	45.47	-10.53	56.00	QP
8		0.712	32.51	9.65	42.16	-3.84	46.00	Average
9		2.652	25.04	9.70	34.75	-21.25	56.00	QP
10		2.652	20.00	9.70	29.70	-16.30	46.00	Average
11		12.515	22.23	9.90	32.13	-27.87	60.00	QP
12		12.515	14.09	9.90	23.99	-26.01	50.00	Average

Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).

3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

8. CONCLUSION

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

The End

Appendix A : Test Setup Photograph

Refer to “2210TW0105-Setup Photo” file.

Appendix B : External Photograph

Refer to “2210TW0105-External Photo” file.

Appendix C : Internal Photograph

Refer to “2210TW0105-Internal Photo” file.