



RF MEASUREMENT REPORT

Applicant: Life Fitness
Address 10601 W. Belmont Ave., Franklin Park, IL 60131

Product Marketing Name: LFSCRF
Model No.: LFSCRF
Brand Name Life Fitness
FCC Rule Part(s): Part 15 Subpart C (Section 15.247 (d))
ISED Rule(s): RSS-247 Issue 2 (Section 5.5)
Test Procedure(s): ANSI C63.10-2013
Test Date: November 01 ~ 30, 2021

Reviewed By:

Sunny Sun

Approved By:

Robin Wu



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 (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2110RSU051-U1	Rev. 01	Initial Report	01-25-2022	Valid

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1. General Information

1.1. Applicant

Life Fitness

10601 W. Belmont Ave., Franklin Park, IL 60131

1.2. Manufacturer

Life Fitness

10601 W. Belmont Ave., Franklin Park, IL 60131

1.3. Testing Facility

☒	Test Site – MRT Suzhou Laboratory
	Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
	Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
	Laboratory Accreditations
	A2LA: 3628.01 FCC: CN1166 VCCI: ☐ R-20025 ☐ G-20034 ☐ C-20020 ☐ T-20020 ☐ R-20141 ☐ G-20134 ☐ C-20103 ☐ T-20104
	CNAS: L10551 ISED: CN0001
☐	Test Site – MRT Shenzhen Laboratory
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China
	Laboratory Accreditations
	A2LA: 3628.02 FCC: CN1284
	CNAS: L10551 ISED: CN0105
☐	Test Site – MRT Taiwan Laboratory
	Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: L3261-190725 FCC: 291082, TW3261
	ISED: TW3261

1.4. Product Information

Product Marketing Name	LFSCRF
Model No.	LFSCRF
HMN	SMARTconnect
Firmware Version	v1.0
Test Device Label No.	20211026Sample#11
EUT Type	Portable Device
Exposure Category	General Population/Uncontrolled Exposure
Remark: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

1.5. Description of Host

Host Name	SMARTconnect
Model No.	LT
Company Name	Life Fitness
Wi-Fi Specification	802.11b/g/n
Bluetooth Version	V5.0 only for BLE
ANT	2.4G proprietary protocol
RFID	13.56MHz, 125kHz
Antenna Information	Refer to section 1.7
Power Supply	Dry Battery (6V dc, 400mA)
Integrated Modular Information	
BT/ANT+ Module	Module Name: Bluetooth 5.0 BLE Data Module FCC ID: SQGBL654 IC: 3147A-BL654
Wifi module	Product Marketing Name: LFSCRF FCC ID: LM6-LFSCRF IC: 23315-LFSCRF
RFID module	Module Name: TWN4 MultiTech 3 FCC ID: WP5TWN4F4 IC: 7948A-TWN4F4

1.6. Radio Specification under Test

Frequency Range	802.11b/g/n-HT20: 2412 ~ 2462MHz 802.11n-HT40: 2422 ~ 2452MHz
Channel Number	802.11b/g/n-HT20: 11 802.11n-HT40: 7
Type of Modulation	802.11b: DSSS 802.11g/n: OFDM
Data Rate	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 150Mbps

1.7. Working Frequencies

802.11b/g/n-HT20

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

802.11n-HT40

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

1.8. Antennas Details

Antenna Type	Frequency Band	T _x Paths	Antenna Gain (dBi)
2.4G Wi-Fi			
PCB	2412 ~ 2462 MHz	1	3.40
Bluetooth-LE			
PCB Dipole	2402 ~ 2480 MHz	1	2.00
ANT			
PCB Dipole	2425 MHz	1	2.00
RFID			
PCB	125 kHz	1	N/A
	13.56 MHz	1	0.00

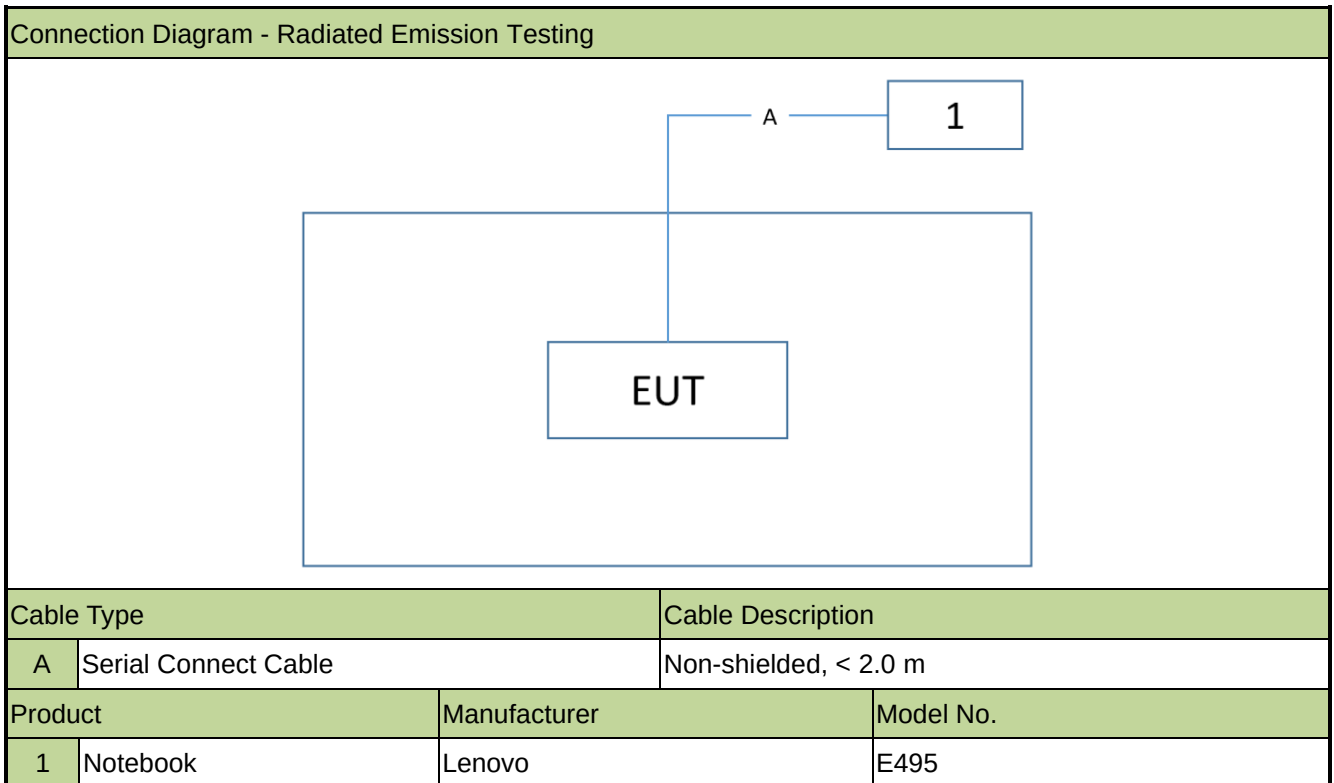
2. Test Configuration

2.1. 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)
	Mode 4: Transmit by 802.11n-HT40 (MCS0)

2.2. Test System Connection Diagram

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



Remark: The Notebook was removed after EUT entered transmit mode.

2.3. Test Software

The test utility software used during testing was “EspRFTTestTool”, and the version was v2.8.

2.4. Test Environment Condition

Ambient Temperature	15°C ~ 35°C
Relative Humidity	20%RH ~ 75%RH

3. 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.

4. Measuring Instrument

No.	Instrument	Manufacturer	Model No.	Asset No.	Last Cali. Date	Cali. Due Date	Test Site
1	EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2022/01/04	WZ-AC1
2	Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2022/09/16	WZ-AC1
3	Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2022/11/12	WZ-AC1
4	TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2022/08/05	WZ-AC1
5	Thermohygrometer	Yuhuaaze	HTC-2	MRTSUE06184	1 year	2022/08/10	WZ-AC1
6	Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2022/04/29	WZ-AC1
7	Thermohygrometer	testo	608-H1	MRTSUE06403	1 year	2022/06/28	WZ-AC1
8	Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2022/01/06	WZ-AC1
9	Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2022/10/28	WZ-AC1/WZ-AC2
10	TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2022/5/24	WZ-AC2
11	EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2022/6/24	WZ-AC2
12	Thermohygrometer	Mingle	ETH529	MRTSUE06170	1 year	2021/12/8	WZ-AC2
13	Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2022/10/21	WZ-AC2
14	Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2022/11/12	WZ-AC2
15	Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2022/4/29	WZ-AC2
16	Thermohygrometer	testo	Testo 608-H1	MRTSUE11038	1 year	2022/11/11	WZ-AC2

Software	Version	Function
EMI Software	V3	EMI Test Software

5. 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 $k = 2$.

Radiated Disturbance

Measurement Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):

Horizontal:

9kHz~300MHz: 5.04dB

300MHz~1GHz: 4.95dB

1GHz~26GHz: 6.40dB

Vertical:

9kHz~300MHz: 5.24dB

300MHz~1GHz: 6.03dB

1GHz~26GHz: 6.40dB

6. Test Result

6.1. Summary

FCC Section(s)	RSS Section(s)	Test Description	Test Condition	Verdict
15.205 15.209	RSS-247 [5.5]	General Field Strength (Restricted Bands and Radiated Emission)	Radiated	Pass

Remark:

- 1) 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.
- 2) For radiated emission tests, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.

6.2. Radiated Spurious Emission Measurement

6.2.1. Test Limit

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

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

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

RSS-Gen Section 8.9			
Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	Magnetic Field Strength (H-Field) ($\mu\text{A}/\text{m}$)	Measured Distance (m)
0.009 - 0.490 1	--	6.37/F (F in kHz)	300
0.490 - 1.705	--	63.7/F (F in kHz)	30
1.705 - 30	--	0.08	30
30 - 88	100	--	3
88 - 216	150	--	3
216 - 960	200	--	3
Above 960	500	--	3

6.2.2. Test Procedure Used

ANSI C63.10-2013 - Section 11.11 & 11.12

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

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

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

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

6.2.3. Test Setting

Table 1 - RBW as a function of frequency

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

Quasi-Peak Measurements below 1GHz

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

Peak Measurements above 1GHz

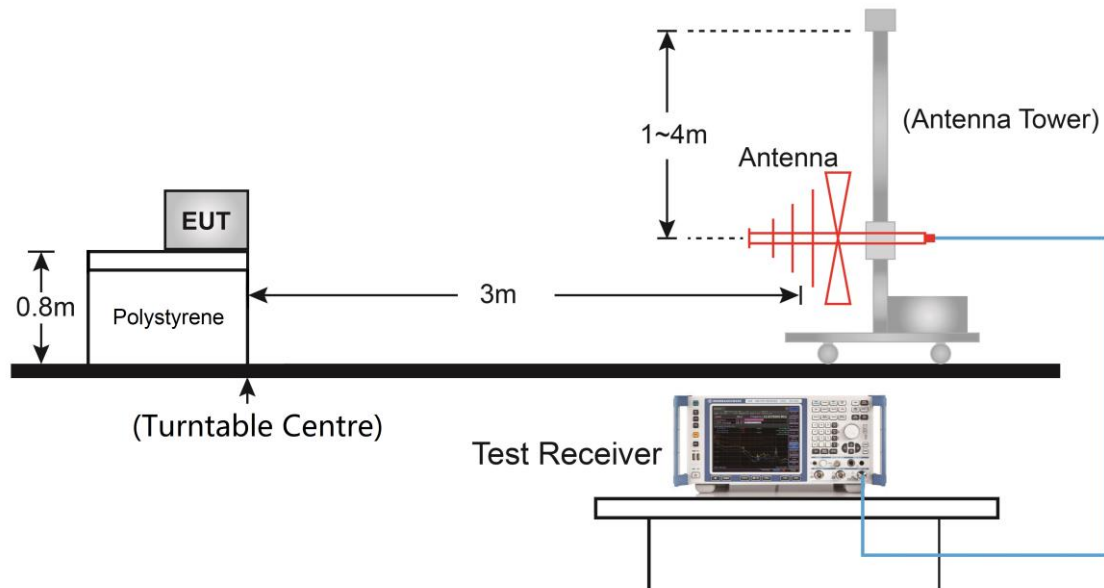
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

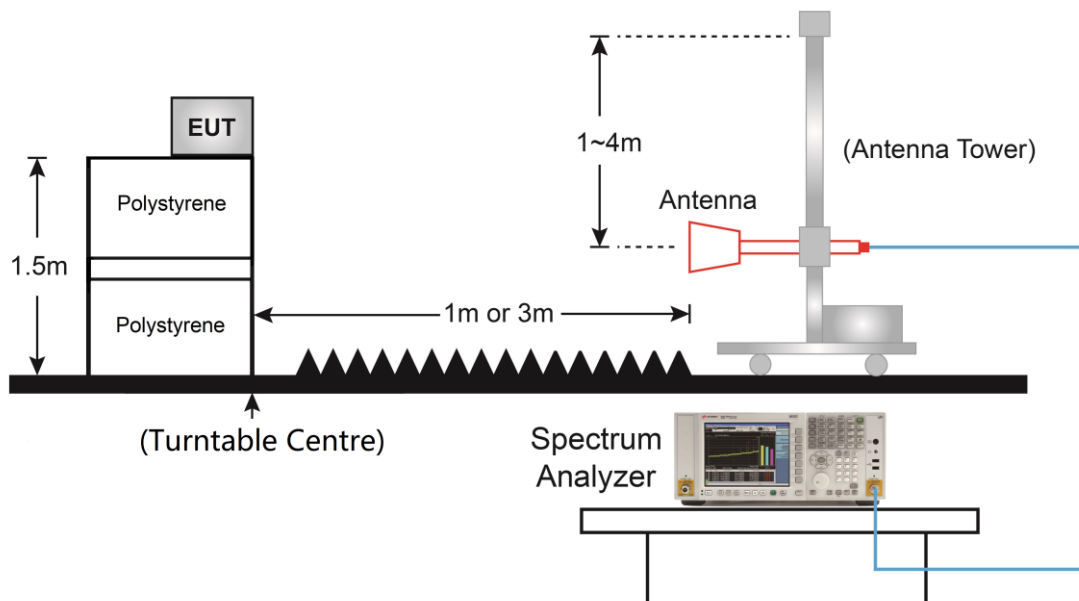
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4.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

6.2.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.2.5. Test Result

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Messiah Li
Test Date	2021/11/01 & 2021/11/30	Test Mode	Mode 1
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Within 1GHz-26GHz, frequencies that were 20dB below the limit, were not shown in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	4825.0	43.8	3.8	47.6	74.0	-26.4	Peak	Horizontal
	7630.0	37.0	8.6	45.6	74.0	-28.4	Peak	Horizontal
	11548.5	35.8	13.1	48.9	74.0	-25.1	Peak	Horizontal
	4824.0	48.5	3.8	52.3	54.0	-1.7	Average	Vertical
	4825.0	47.5	3.8	51.3	74.0	-22.7	Peak	Vertical
	7468.5	34.8	8.8	43.6	74.0	-30.4	Peak	Vertical
	8352.5	34.9	9.5	44.4	74.0	-29.6	Peak	Vertical
	22428.0	50.7	-7.5	43.2	74.0	-30.8	Peak	Horizontal
	22788.0	50.9	-8.4	42.5	74.0	-31.5	Peak	Horizontal
	23768.0	49.3	-7.4	41.9	74.0	-32.1	Peak	Horizontal
	22416.0	52.9	-7.5	45.4	74.0	-28.6	Peak	Vertical
	22932.0	49.7	-7.8	41.9	74.0	-32.1	Peak	Vertical
	23744.0	49.9	-7.5	42.4	74.0	-31.6	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
06	4876.0	44.5	4.0	48.5	74.0	-25.5	Peak	Horizontal
	7570.5	34.8	8.8	43.6	74.0	-30.4	Peak	Horizontal
	12050.0	36.2	12.7	48.9	74.0	-25.1	Peak	Horizontal
	4874.0	48.5	4.1	52.6	54.0	-1.4	Average	Vertical
	4876.0	48.7	4.0	52.7	74.0	-21.3	Peak	Vertical
	7485.5	37.4	8.9	46.3	74.0	-27.7	Peak	Vertical
	8352.5	34.3	9.5	43.8	74.0	-30.2	Peak	Vertical
	20492.0	55.0	-9.4	45.6	74.0	-28.4	Peak	Horizontal
	22460.0	53.6	-8.1	45.5	74.0	-28.5	Peak	Horizontal
	23840.0	52.8	-6.9	45.9	74.0	-28.1	Peak	Horizontal
	19616.0	56.9	-10.3	46.6	74.0	-27.4	Peak	Vertical
	22680.0	52.8	-7.9	44.9	74.0	-29.1	Peak	Vertical
	23900.0	52.7	-7.3	45.4	74.0	-28.6	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)								
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
11	4927.0	46.1	4.2	50.3	74.0	-23.7	Peak	Horizontal
	7417.5	36.2	9.0	45.2	74.0	-28.8	Peak	Horizontal
	8208.0	34.6	9.7	44.3	74.0	-29.7	Peak	Horizontal
	4924.0	49.4	4.2	53.6	54.0	-0.4	Average	Vertical
	4927.0	49.5	4.2	53.7	74.0	-20.3	Peak	Vertical
	7511.0	36.6	8.9	45.5	74.0	-28.5	Peak	Vertical
	8174.0	34.7	9.5	44.2	74.0	-29.8	Peak	Vertical
	18532.0	57.9	-10.7	47.2	74.0	-26.8	Peak	Horizontal
	22232.0	53.6	-8.0	45.6	74.0	-28.4	Peak	Horizontal
	23824.0	52.4	-6.9	45.5	74.0	-28.5	Peak	Horizontal
	19208.0	56.4	-10.3	46.1	74.0	-27.9	Peak	Vertical
	22452.0	53.8	-8.0	45.8	74.0	-28.2	Peak	Vertical
	23732.0	52.8	-7.5	45.3	74.0	-28.7	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC1	Test Engineer	Messiah Li
Test Date	2021/11/15 & 2021/11/30	Test Mode	Mode 2
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Within 1GHz-26GHz, frequencies that were 20dB below the limit, were not shown in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	3907.0	37.9	1.4	39.3	74.0	-34.7	Peak	Horizontal
	4833.5	43.0	3.8	46.8	74.0	-27.2	Peak	Horizontal
	7519.5	37.4	8.8	46.2	74.0	-27.8	Peak	Horizontal
	4816.5	45.2	3.8	49.0	74.0	-25.0	Peak	Vertical
	7468.5	37.2	8.8	46.0	74.0	-28.0	Peak	Vertical
	8420.5	35.4	9.8	45.2	74.0	-28.8	Peak	Vertical
	18732.0	57.5	-10.5	47.0	74.0	-27.0	Peak	Horizontal
	22404.0	54.3	-7.9	46.4	74.0	-27.6	Peak	Horizontal
	23716.0	52.8	-7.4	45.4	74.0	-28.6	Peak	Horizontal
	18352.0	57.8	-10.8	47.0	74.0	-27.0	Peak	Vertical
	22268.0	52.9	-7.4	45.5	74.0	-28.5	Peak	Vertical
	23872.0	51.8	-6.8	45.0	74.0	-29.0	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
06	4876.0	44.7	4.0	48.7	74.0	-25.3	Peak	Horizontal
	7494.0	37.2	9.0	46.2	74.0	-27.8	Peak	Horizontal
	11608.0	36.5	12.9	49.4	74.0	-24.6	Peak	Horizontal
	4876.0	46.4	4.0	50.4	74.0	-23.6	Peak	Vertical
	7587.5	37.5	8.7	46.2	74.0	-27.8	Peak	Vertical
	11276.5	36.2	13.4	49.6	74.0	-24.4	Peak	Vertical
	19120.0	56.1	-10.0	46.1	74.0	-27.9	Peak	Horizontal
	22580.0	53.6	-7.6	46.0	74.0	-28.0	Peak	Horizontal
	23708.0	52.7	-7.4	45.3	74.0	-28.7	Peak	Horizontal
	18940.0	55.9	-10.1	45.8	74.0	-28.2	Peak	Vertical
	22256.0	53.9	-7.6	46.3	74.0	-27.7	Peak	Vertical
	23700.0	53.0	-7.4	45.6	74.0	-28.4	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)								
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
11	4927.0	41.4	4.2	45.6	74.0	-28.4	Peak	Horizontal
	7511.0	36.7	8.9	45.6	74.0	-28.4	Peak	Horizontal
	12288.0	37.3	12.9	50.2	74.0	-23.8	Peak	Horizontal
	4918.5	43.2	4.2	47.4	74.0	-26.6	Peak	Vertical
	7400.5	36.7	9.1	45.8	74.0	-28.2	Peak	Vertical
	10894.0	35.8	13.8	49.6	74.0	-24.4	Peak	Vertical
	18952.0	55.8	-10.0	45.8	74.0	-28.2	Peak	Horizontal
	22444.0	53.1	-7.9	45.2	74.0	-28.8	Peak	Horizontal
	23804.0	52.2	-7.1	45.1	74.0	-28.9	Peak	Horizontal
	18940.0	56.5	-10.1	46.4	74.0	-27.6	Peak	Vertical
	22452.0	53.2	-8.0	45.2	74.0	-28.8	Peak	Vertical
	23860.0	52.4	-6.9	45.5	74.0	-28.5	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)								
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

Test Site	WZ-AC1	Test Engineer	Messiah Li
Test Date	2021/11/15 & 2021/11/30	Test Mode	Mode 3
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Within 1GHz-26GHz, frequencies that were 20dB below the limit, were not shown in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	4825.0	41.4	3.8	45.2	74.0	-28.8	Peak	Horizontal
	7485.5	36.4	8.9	45.3	74.0	-28.7	Peak	Horizontal
	8361.0	36.1	9.6	45.7	74.0	-28.3	Peak	Horizontal
	4833.5	44.7	3.8	48.5	74.0	-25.5	Peak	Vertical
	7511.0	37.6	8.9	46.5	74.0	-27.5	Peak	Vertical
	8403.5	37.0	9.6	46.6	74.0	-27.4	Peak	Vertical
	20420.0	55.3	-9.2	46.1	74.0	-27.9	Peak	Horizontal
	22260.0	52.9	-7.4	45.5	74.0	-28.5	Peak	Horizontal
	23912.0	53.5	-7.2	46.3	74.0	-27.7	Peak	Horizontal
	18780.0	57.3	-10.5	46.8	74.0	-27.2	Peak	Vertical
	22528.0	53.3	-7.7	45.6	74.0	-28.4	Peak	Vertical
	23840.0	52.2	-6.9	45.3	74.0	-28.7	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
06	4867.5	43.1	4.1	47.2	74.0	-26.8	Peak	Horizontal
	7511.0	37.0	8.9	45.9	74.0	-28.1	Peak	Horizontal
	8420.5	36.0	9.8	45.8	74.0	-28.2	Peak	Horizontal
	4876.0	45.2	4.0	49.2	74.0	-24.8	Peak	Vertical
	7519.5	37.1	8.8	45.9	74.0	-28.1	Peak	Vertical
	10987.5	35.4	13.8	49.2	74.0	-24.8	Peak	Vertical
	19104.0	56.7	-10.2	46.5	74.0	-27.5	Peak	Horizontal
	23028.0	52.9	-7.1	45.8	74.0	-28.2	Peak	Horizontal
	23784.0	53.0	-7.6	45.4	74.0	-28.6	Peak	Horizontal
	18740.0	57.6	-10.5	47.1	74.0	-26.9	Peak	Vertical
	22212.0	54.0	-8.2	45.8	74.0	-28.2	Peak	Vertical
	23720.0	52.4	-7.4	45.0	74.0	-29.0	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)								
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
11	4918.5	41.7	4.2	45.9	74.0	-28.1	Peak	Horizontal
	8165.5	36.3	9.5	45.8	74.0	-28.2	Peak	Horizontal
	10953.5	35.4	13.8	49.2	74.0	-24.8	Peak	Horizontal
	4927.0	44.3	4.2	48.5	74.0	-25.5	Peak	Vertical
	7392.0	36.9	9.1	46.0	74.0	-28.0	Peak	Vertical
	11123.5	36.8	13.4	50.2	74.0	-23.8	Peak	Vertical
	18732.0	57.4	-10.5	46.9	74.0	-27.1	Peak	Horizontal
	22852.0	53.1	-7.8	45.3	74.0	-28.7	Peak	Horizontal
	23860.0	52.2	-6.9	45.3	74.0	-28.7	Peak	Horizontal
	18296.0	57.8	-11.2	46.6	74.0	-27.4	Peak	Vertical
	22736.0	52.6	-8.1	44.5	74.0	-29.5	Peak	Vertical
	23920.0	54.0	-7.5	46.5	74.0	-27.5	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)								
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

Test Site	WZ-AC1	Test Engineer	Messiah Li
Test Date	2021/11/15 & 2021/11/30	Test Mode	Mode 4
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Within 1GHz-26GHz, frequencies that were 20dB below the limit, were not shown in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
03	4842.0	40.7	3.9	44.6	74.0	-29.4	Peak	Horizontal
	7630.0	37.9	8.6	46.5	74.0	-27.5	Peak	Horizontal
	11480.5	36.5	13.3	49.8	74.0	-24.2	Peak	Horizontal
	4842.0	41.9	3.9	45.8	74.0	-28.2	Peak	Vertical
	7485.5	37.2	8.9	46.1	74.0	-27.9	Peak	Vertical
	11157.5	36.4	13.4	49.8	74.0	-24.2	Peak	Vertical
	19124.0	56.6	-10.0	46.6	74.0	-27.4	Peak	Horizontal
	22416.0	53.2	-7.8	45.4	74.0	-28.6	Peak	Horizontal
	23856.0	52.4	-6.9	45.5	74.0	-28.5	Peak	Horizontal
	20508.0	55.7	-9.6	46.1	74.0	-27.9	Peak	Vertical
	22384.0	54.2	-7.8	46.4	74.0	-27.6	Peak	Vertical
	23908.0	52.6	-7.2	45.4	74.0	-28.6	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

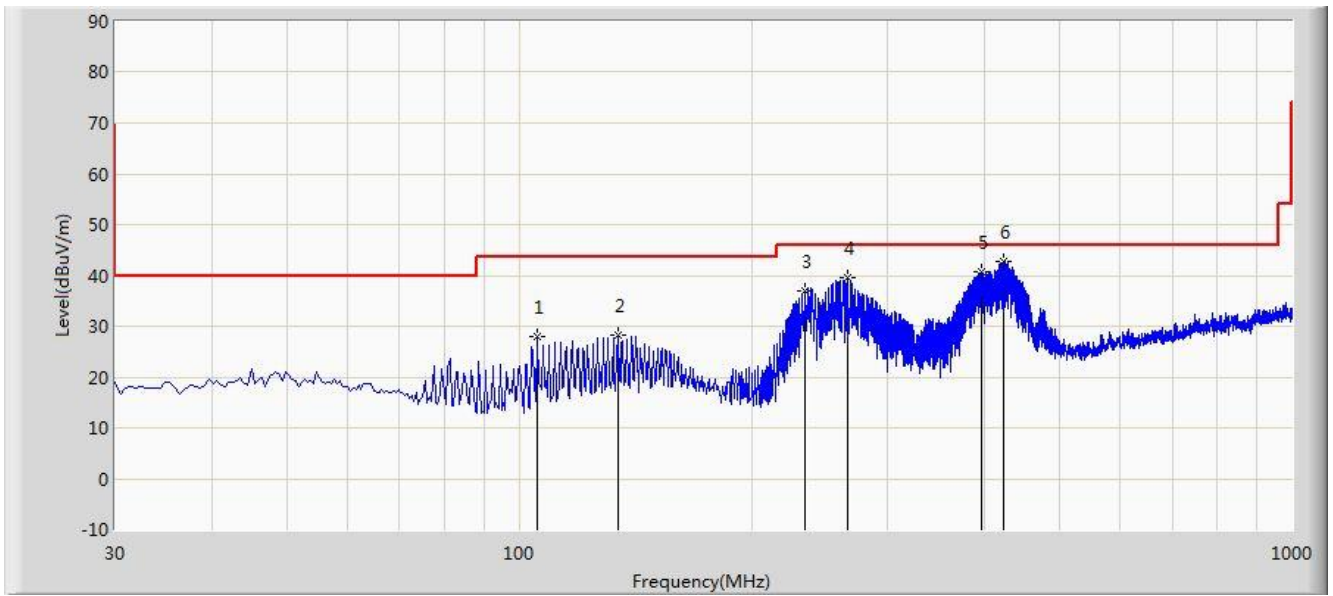
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
06	4876.0	41.1	4.0	45.1	74.0	-28.9	Peak	Horizontal
	7494.0	37.3	9.0	46.3	74.0	-27.7	Peak	Horizontal
	8437.5	35.2	9.8	45.0	74.0	-29.0	Peak	Horizontal
	4867.5	42.3	4.1	46.4	74.0	-27.6	Peak	Vertical
	7485.5	36.3	8.9	45.2	74.0	-28.8	Peak	Vertical
	11081.0	36.0	13.7	49.7	74.0	-24.3	Peak	Vertical
	20436.0	55.3	-9.5	45.8	74.0	-28.2	Peak	Horizontal
	22952.0	52.9	-7.4	45.5	74.0	-28.5	Peak	Horizontal
	23908.0	53.3	-7.4	45.9	74.0	-28.1	Peak	Horizontal
	18648.0	57.7	-10.3	47.4	74.0	-26.6	Peak	Vertical
	22128.0	54.0	-7.6	46.4	74.0	-27.6	Peak	Vertical
	23924.0	53.1	-7.5	45.6	74.0	-28.4	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)								
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
09	5114.0	39.1	5.0	44.1	74.0	-29.9	Peak	Horizontal
	7443.0	36.7	8.9	45.6	74.0	-28.4	Peak	Horizontal
	10885.5	34.5	13.9	48.4	74.0	-25.6	Peak	Horizontal
	4910.0	40.5	4.1	44.6	74.0	-29.4	Peak	Vertical
	7570.5	37.5	8.8	46.3	74.0	-27.7	Peak	Vertical
	10817.5	35.2	13.9	49.1	74.0	-24.9	Peak	Vertical
	18916.0	56.7	-10.3	46.4	74.0	-27.6	Peak	Horizontal
	22408.0	53.1	-7.9	45.2	74.0	-28.8	Peak	Horizontal
	23712.0	52.9	-7.4	45.5	74.0	-28.5	Peak	Horizontal
	19676.0	56.7	-10.4	46.3	74.0	-27.7	Peak	Vertical
	22964.0	53.4	-7.3	46.1	74.0	-27.9	Peak	Vertical
	23868.0	52.0	-6.8	45.2	74.0	-28.8	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)								
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

The Result of Radiated Emission below 1GHz:

Site: WZ-AC1	Time: 2021/11/03
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_VULB 9168 _30-1000MHz	Polarity: Horizontal
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11b at Channel 2462MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			105.660	27.919	14.061	-15.581	43.500	13.858	PK
2			134.275	28.361	11.519	-15.139	43.500	16.842	PK
3			234.185	37.072	21.819	-8.928	46.000	15.253	PK
4			266.195	39.425	22.474	-6.575	46.000	16.950	PK
5			396.660	40.793	20.176	-5.207	46.000	20.617	PK
6		*	422.850	42.743	21.365	-3.257	46.000	21.378	PK

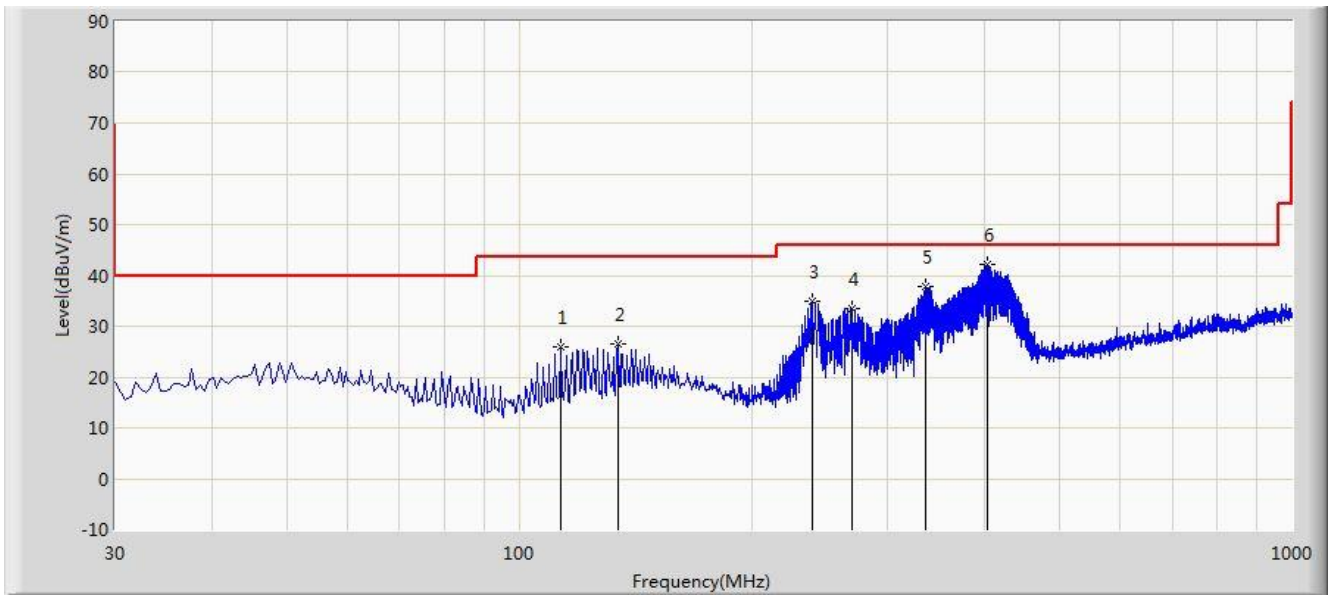
Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Note 3: The radiated emission below 1G was tested at 802.11b Channel 2462MHz, because the radiated emission margin of this channel is minimum.

Site: WZ-AC1	Time: 2021/11/03
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_VULB 9168 _30-1000MHz	Polarity: Vertical
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11b at Channel 2462MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			113.420	26.067	11.352	-17.433	43.500	14.715	PK
2			134.275	26.635	9.793	-16.865	43.500	16.842	PK
3			240.005	35.053	19.137	-10.947	46.000	15.916	PK
4			270.075	33.536	16.335	-12.464	46.000	17.200	PK
5			336.035	37.931	18.630	-8.069	46.000	19.301	PK
6		*	404.420	42.240	21.495	-3.760	46.000	20.745	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Note 3: The radiated emission below 1G was tested at 802.11b Channel 2462MHz, because the radiated emission margin of this channel is minimum.

6.3. Radiated Restricted Band Edge Measurement

6.3.1. 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	--	--	--

For RSS-Gen Section 8.10 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 8.10 of RSS-Gen, must also comply with the radiated emission limits specified in Section 8.9.

Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	* Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for license exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138	--	

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 [$\mu\text{V/m}$]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

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

RSS-Gen Section 8.9			
Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Magnetic Field Strength (H-Field) ($\mu\text{A/m}$)	Measured Distance (m)
0.009 - 0.490 1	--	6.37/F (F in kHz)	300
0.490 - 1.705	--	6.37/F (F in kHz)	30
1.705 - 30	--	0.08	30
30 - 88	100	--	3
88 - 216	150	--	3
216 - 960	200	--	3
Above 960	500	--	3

6.3.2. Test Procedure Used

ANSI C63.10-2013 Section 6.3

ANSI C63.10-2013 Section 6.6

ANSI C63.10-2013 Section 11.13

6.3.3. Test Setting

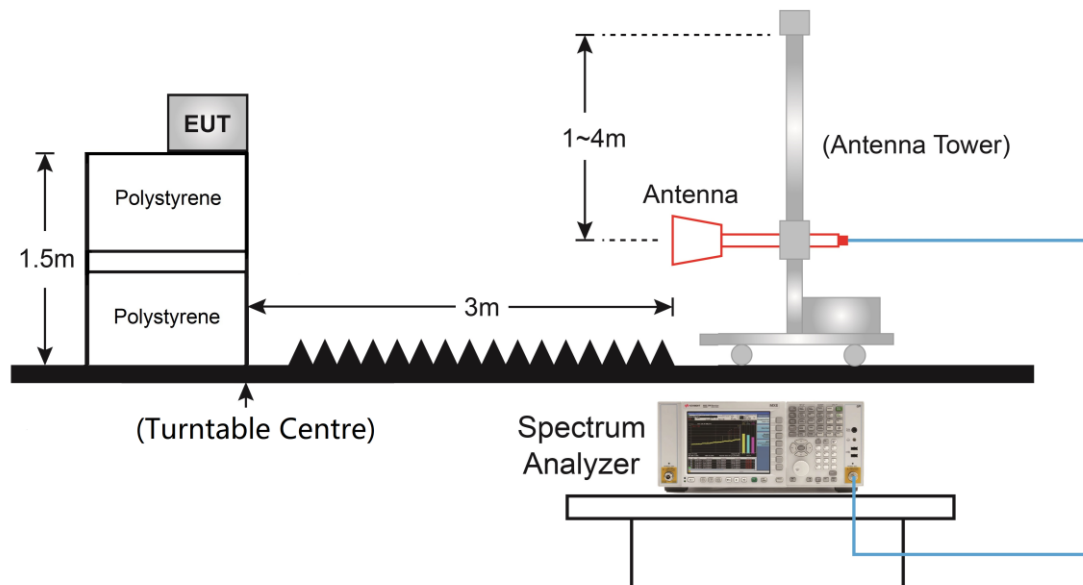
Peak Field Strength Measurements

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

Average Field Strength Measurements

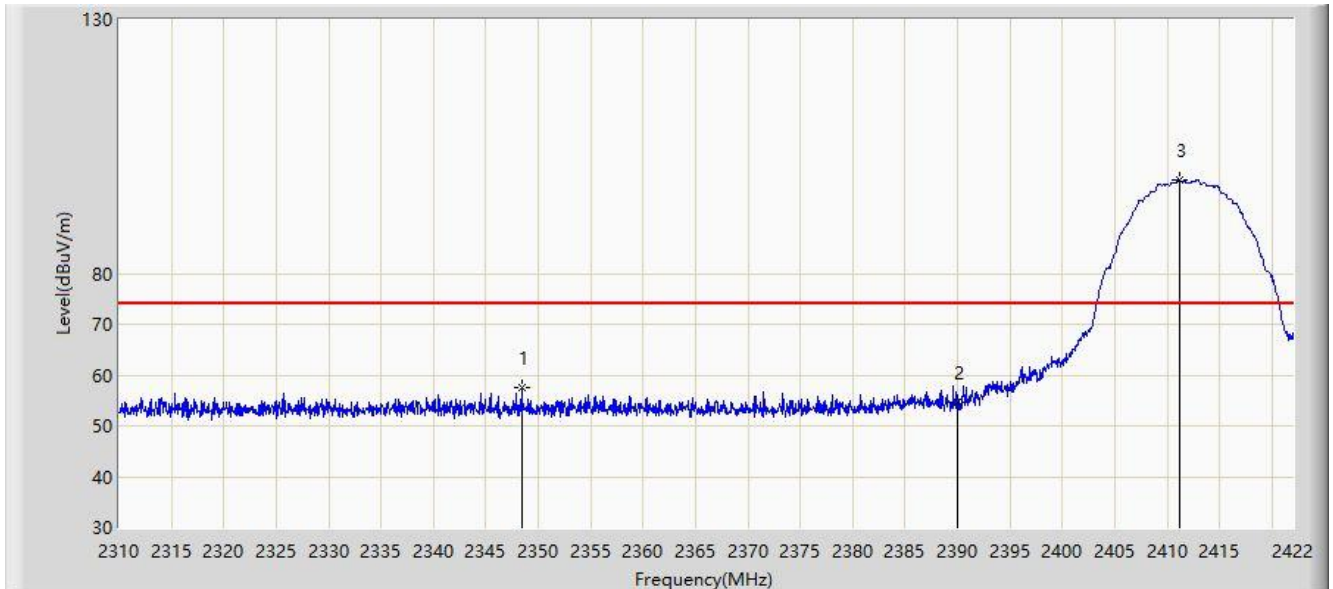
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. $VBW \geq 1/T$
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain).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

6.3.4. Test Setup



6.3.5.Test Result

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11b at Channel 2412MHz	

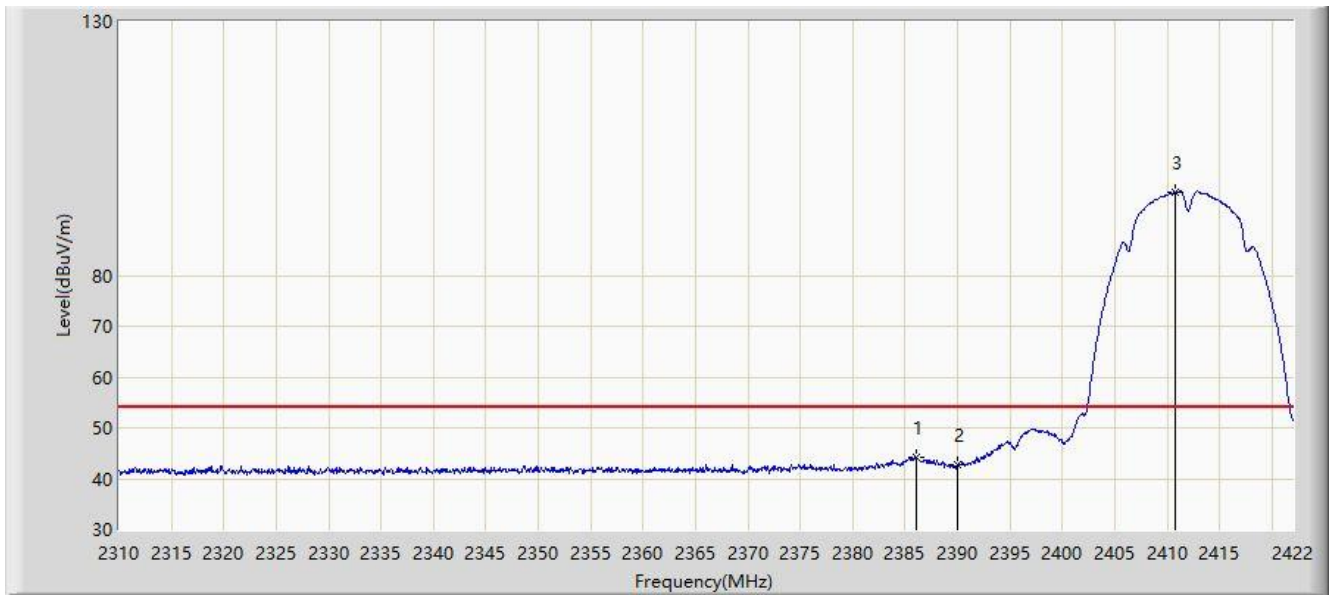


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			2348.416	57.634	26.782	-16.366	74.000	30.852	PK
2			2390.000	54.541	23.725	-19.459	74.000	30.816	PK
3		*	2411.136	98.515	67.680	N/A	N/A	30.835	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11b at Channel 2412MHz	

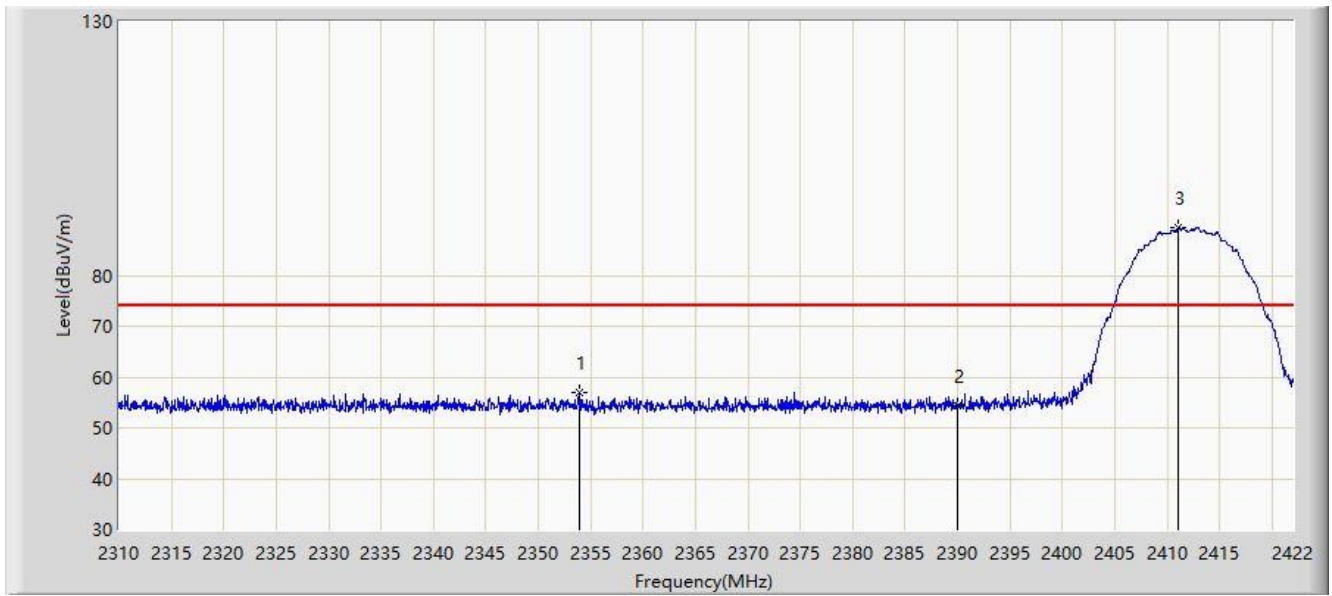


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			2386.048	44.314	13.502	-9.686	54.000	30.812	AV
2			2390.000	42.850	12.034	-11.150	54.000	30.816	AV
3		*	2410.744	96.341	65.506	N/A	N/A	30.835	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11b at Channel 2412MHz	

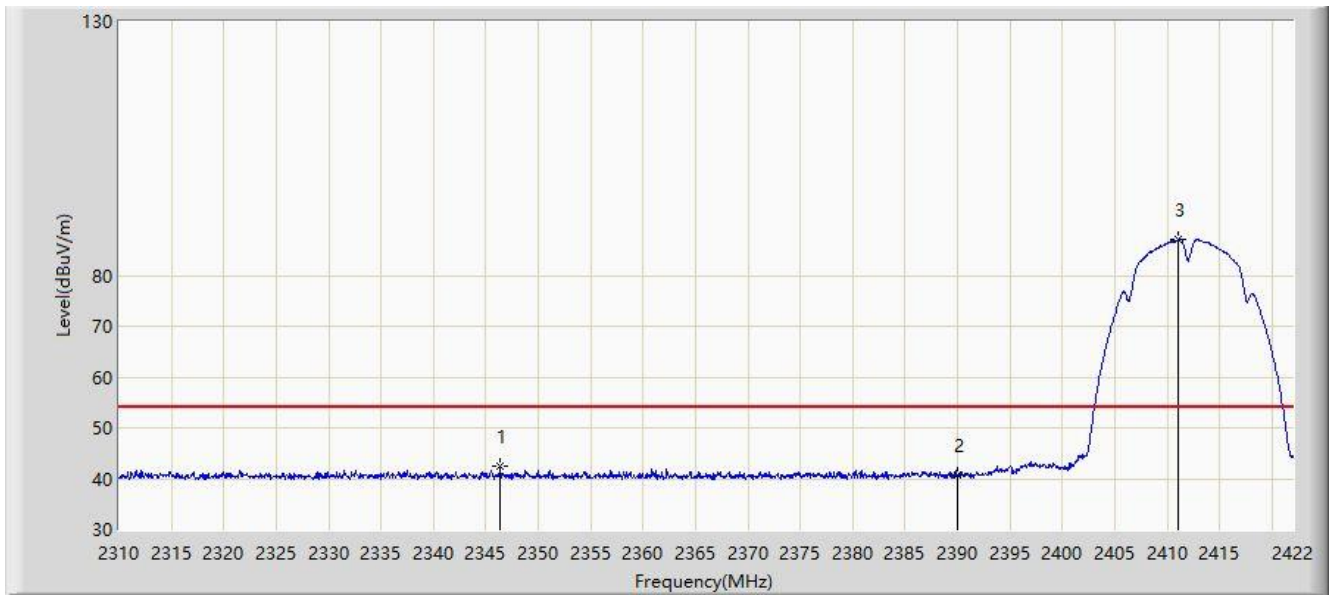


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2353.904	56.919	26.089	-17.081	74.000	30.830	PK
2			2390.000	54.378	23.562	-19.622	74.000	30.816	PK
3		*	2411.024	89.299	58.464	N/A	N/A	30.835	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11b at Channel 2412MHz	

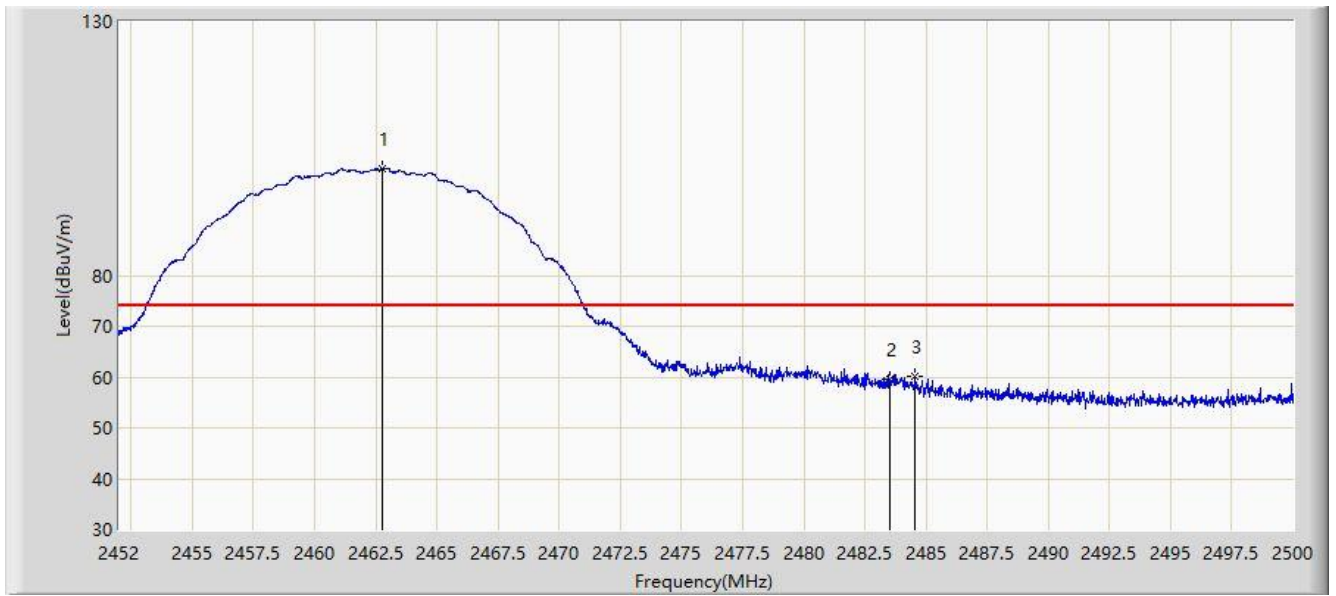


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			2346.344	42.364	11.514	-11.636	54.000	30.850	AV
2			2390.000	40.772	9.956	-13.228	54.000	30.816	AV
3		*	2411.024	87.021	56.186	N/A	N/A	30.835	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11b at Channel 2462MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	2462.752	100.971	70.012	N/A	N/A	30.959	PK
2			2483.500	59.556	28.535	-14.444	74.000	31.021	PK
3			2484.544	60.135	29.110	-13.865	74.000	31.025	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11b at Channel 2462MHz	

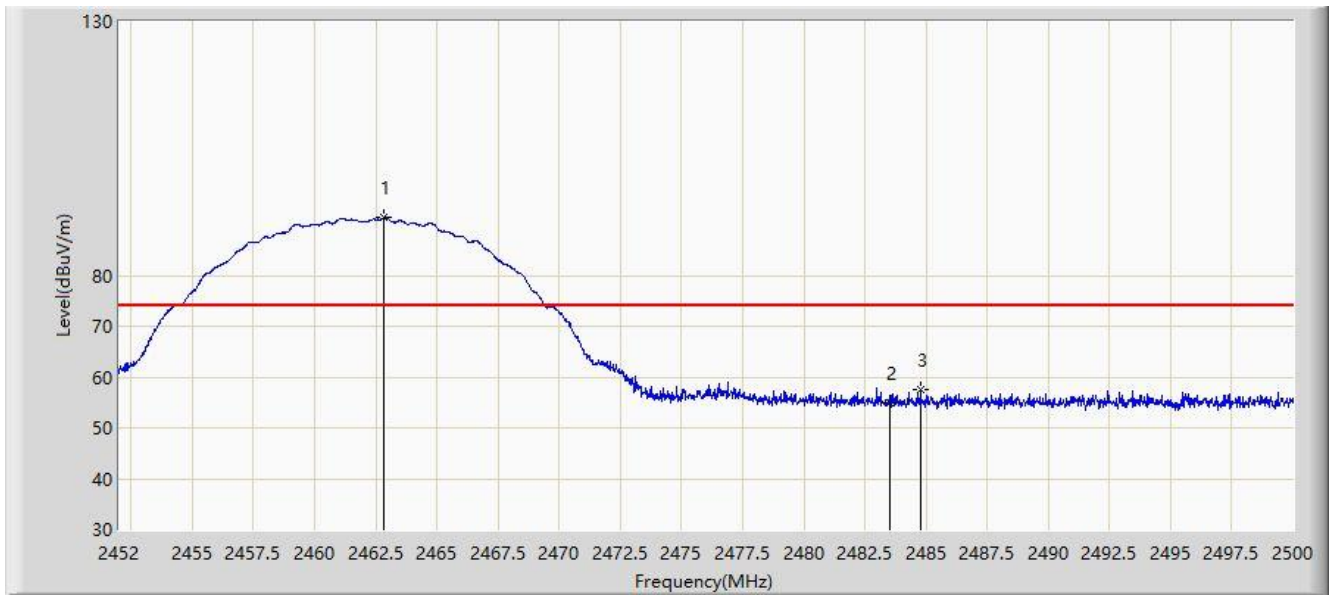


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	2461.288	98.480	67.524	N/A	N/A	30.956	AV
2			2483.500	42.348	11.327	-11.652	54.000	31.021	AV
3			2487.928	44.137	13.097	-9.863	54.000	31.040	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11b at Channel 2462MHz	

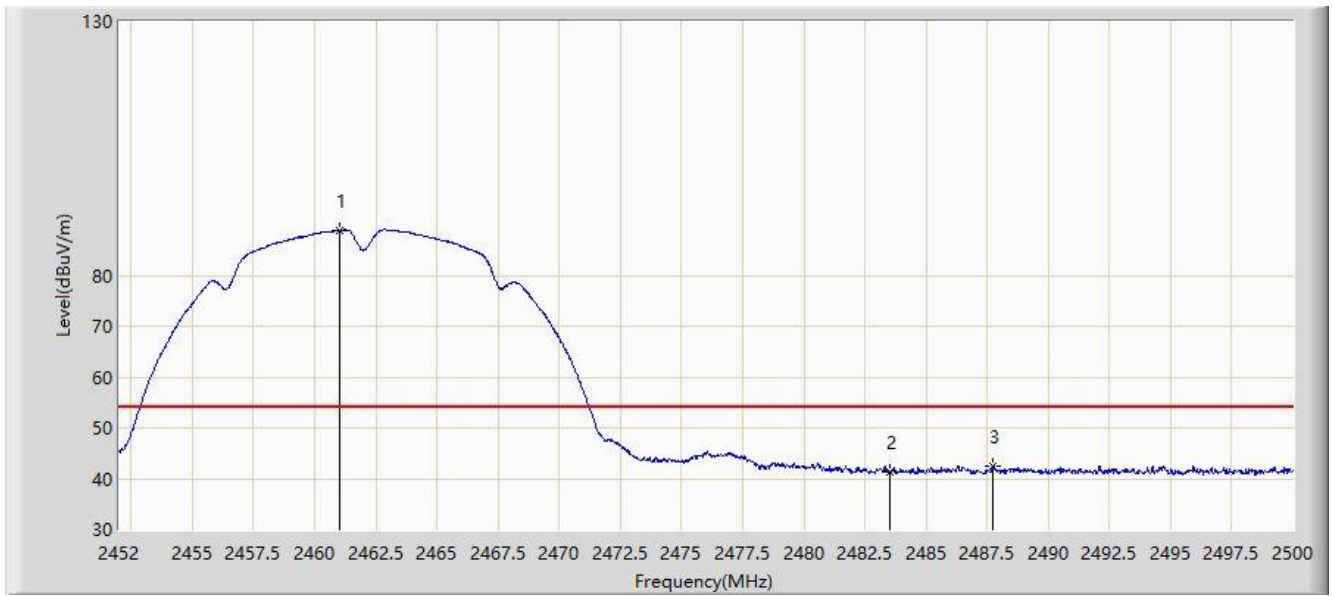


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	2462.824	91.406	60.447	N/A	N/A	30.959	PK
2			2483.500	54.986	23.965	-19.014	74.000	31.021	PK
3			2484.784	57.491	26.465	-16.509	74.000	31.027	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11b at Channel 2462MHz	

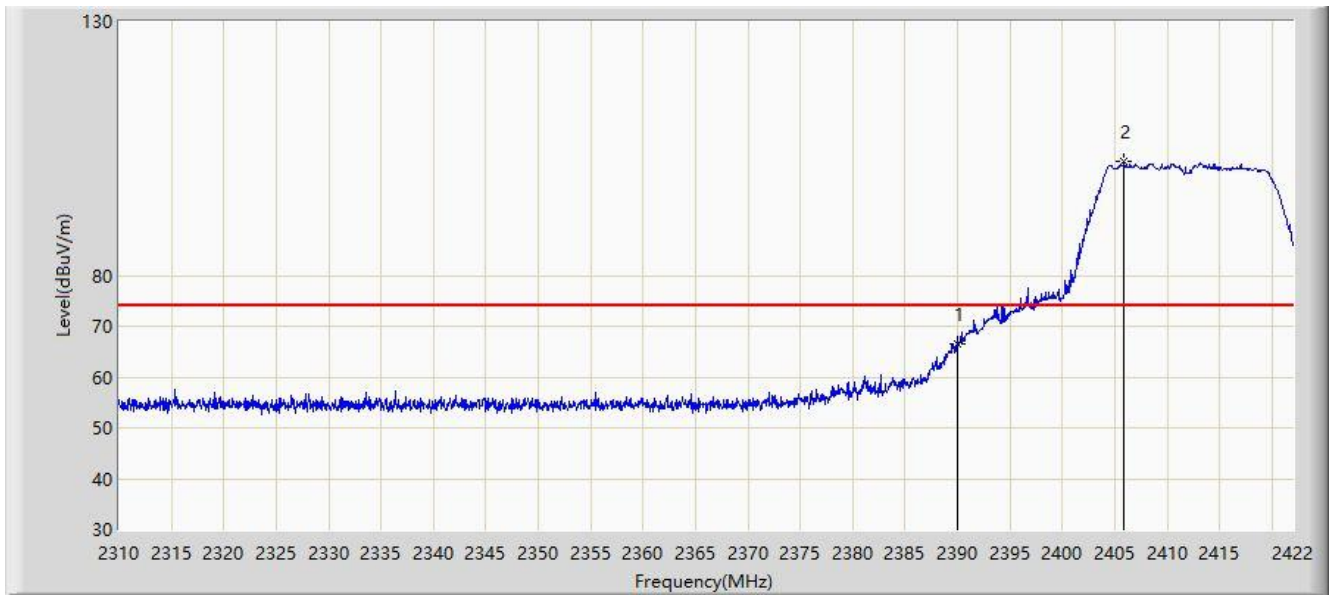


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	2461.048	88.879	57.923	N/A	N/A	30.956	AV
2			2483.500	41.296	10.275	-12.704	54.000	31.021	AV
3			2487.736	42.472	11.433	-11.528	54.000	31.039	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11g at Channel 2412MHz	

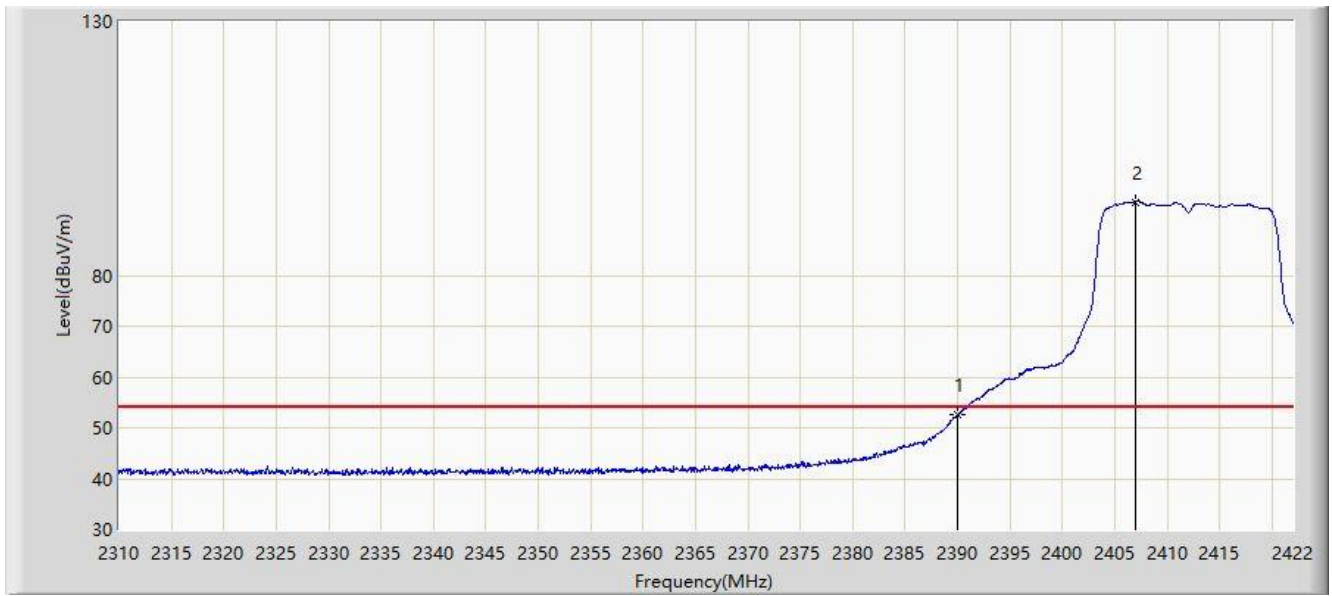


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2390.000	66.538	35.722	-7.462	74.000	30.816	PK
2		*	2405.872	102.440	71.603	N/A	N/A	30.838	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11g at Channel 2412MHz	

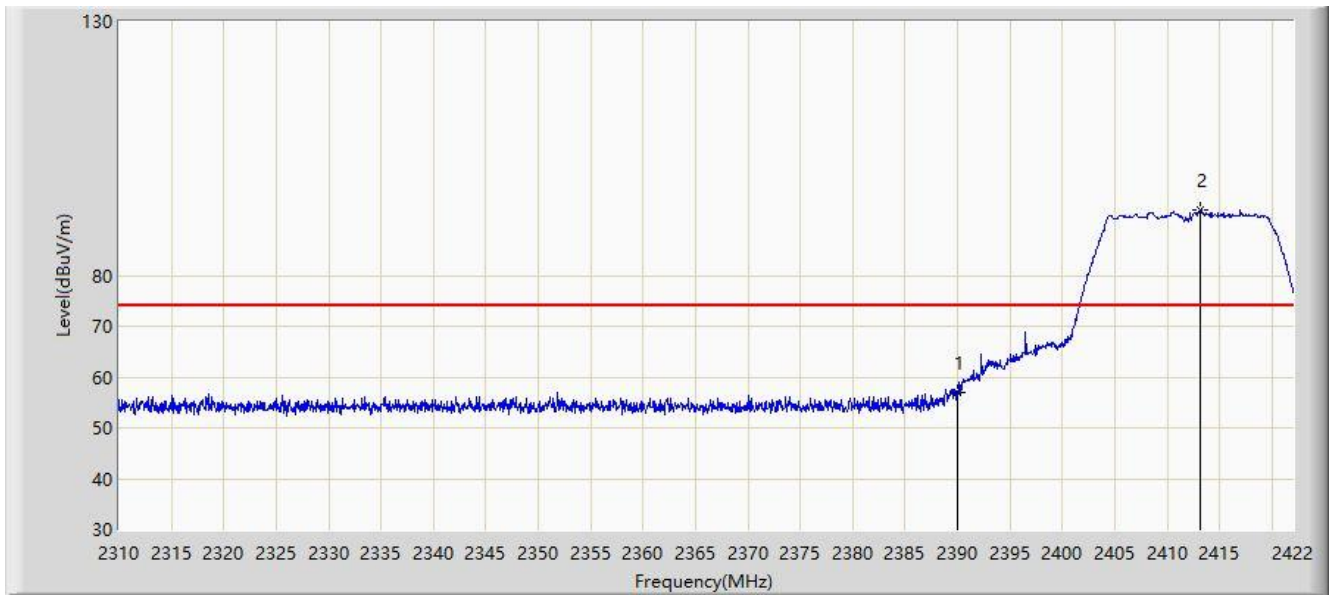


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2390.000	52.472	21.656	-1.528	54.000	30.816	AV
2		*	2406.936	94.444	63.607	N/A	N/A	30.837	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11g at Channel 2412MHz	

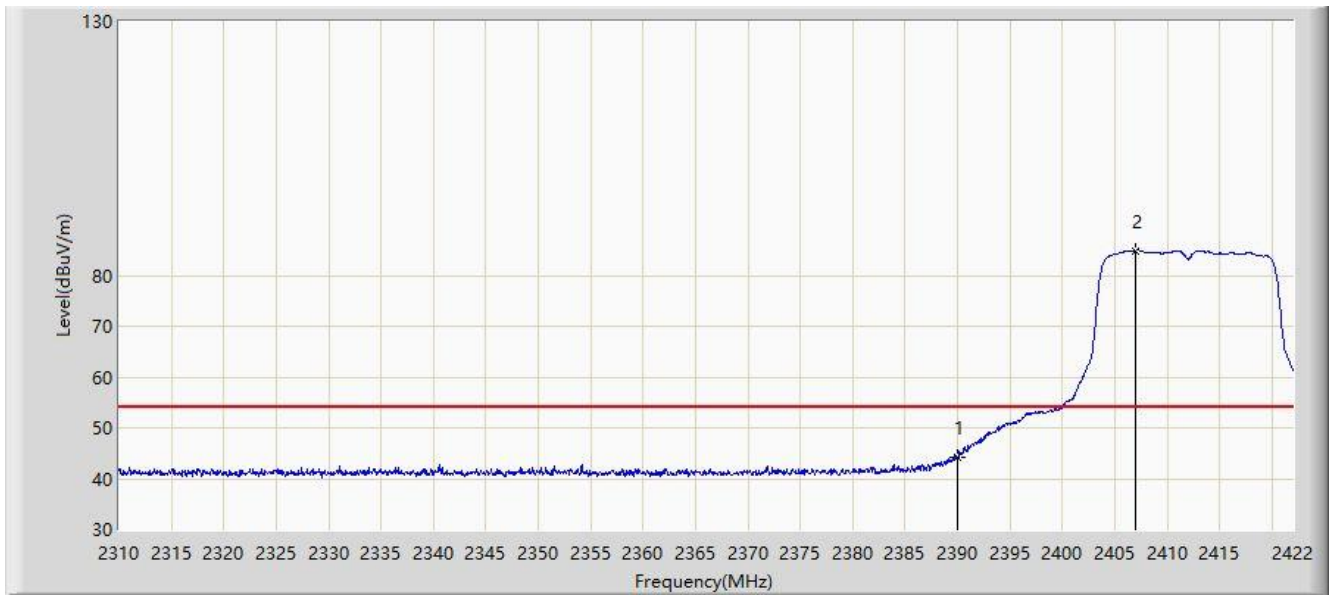


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2390.000	56.918	26.102	-17.082	74.000	30.816	PK
2		*	2413.152	92.924	62.089	N/A	N/A	30.835	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11g at Channel 2412MHz	

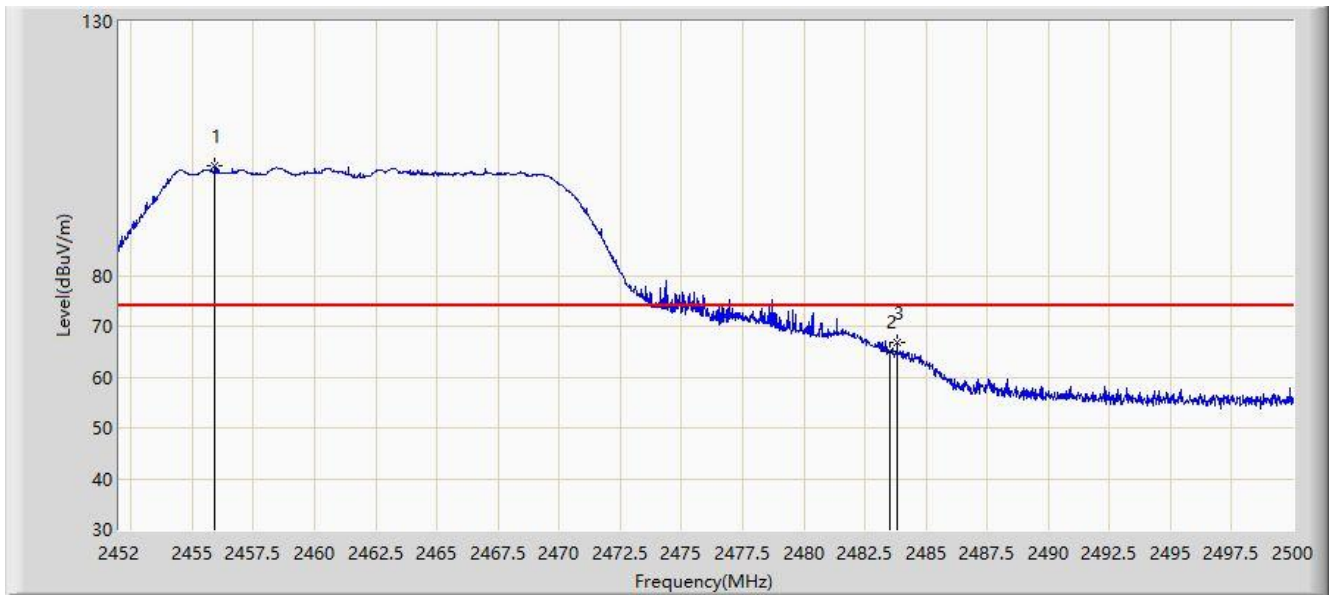


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2390.000	44.207	13.391	-9.793	54.000	30.816	AV
2		*	2406.936	84.822	53.985	N/A	N/A	30.837	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11g at Channel 2462MHz	

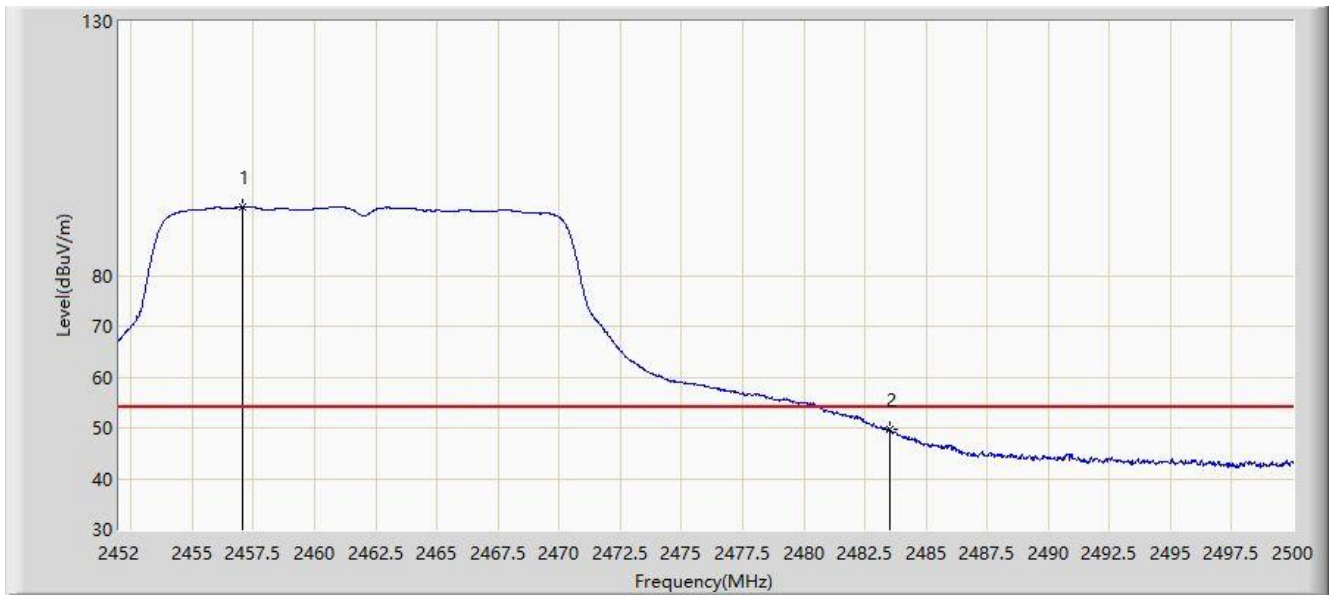


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	2455.936	101.477	70.529	N/A	N/A	30.948	PK
2			2483.500	65.091	34.070	-8.909	74.000	31.021	PK
3			2483.824	66.812	35.790	-7.188	74.000	31.022	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11g at Channel 2462MHz	

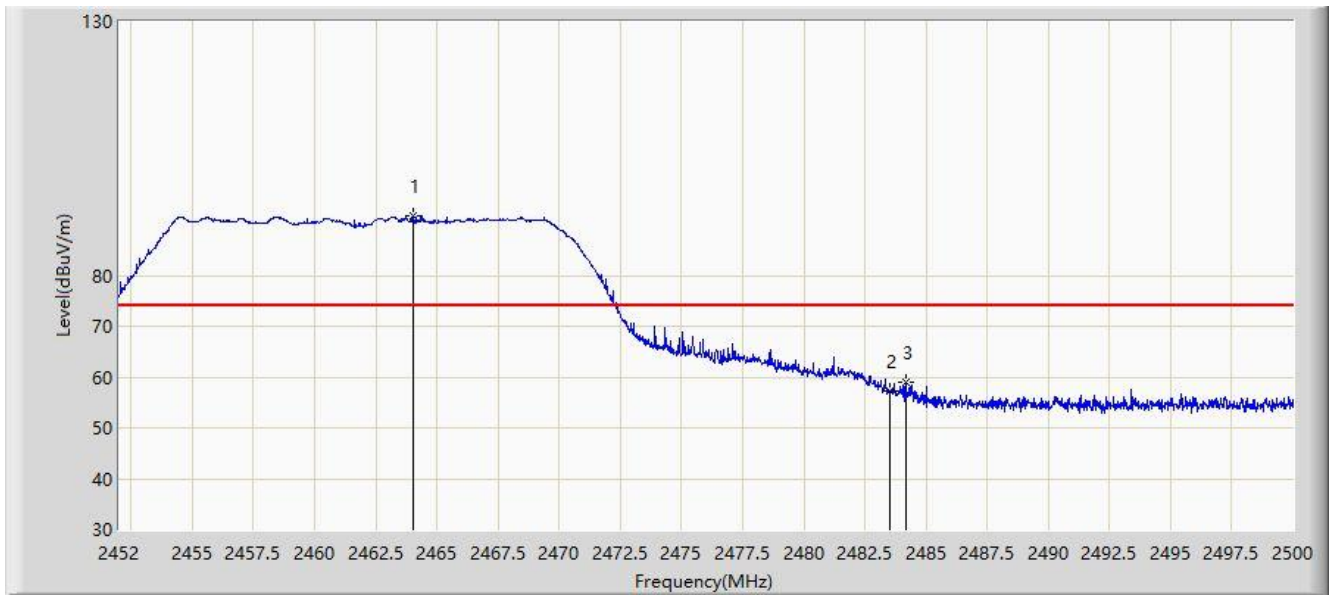


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2457.064	93.532	62.582	N/A	N/A	30.950	AV
2			2483.500	49.730	18.709	-4.270	54.000	31.021	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11g at Channel 2462MHz	

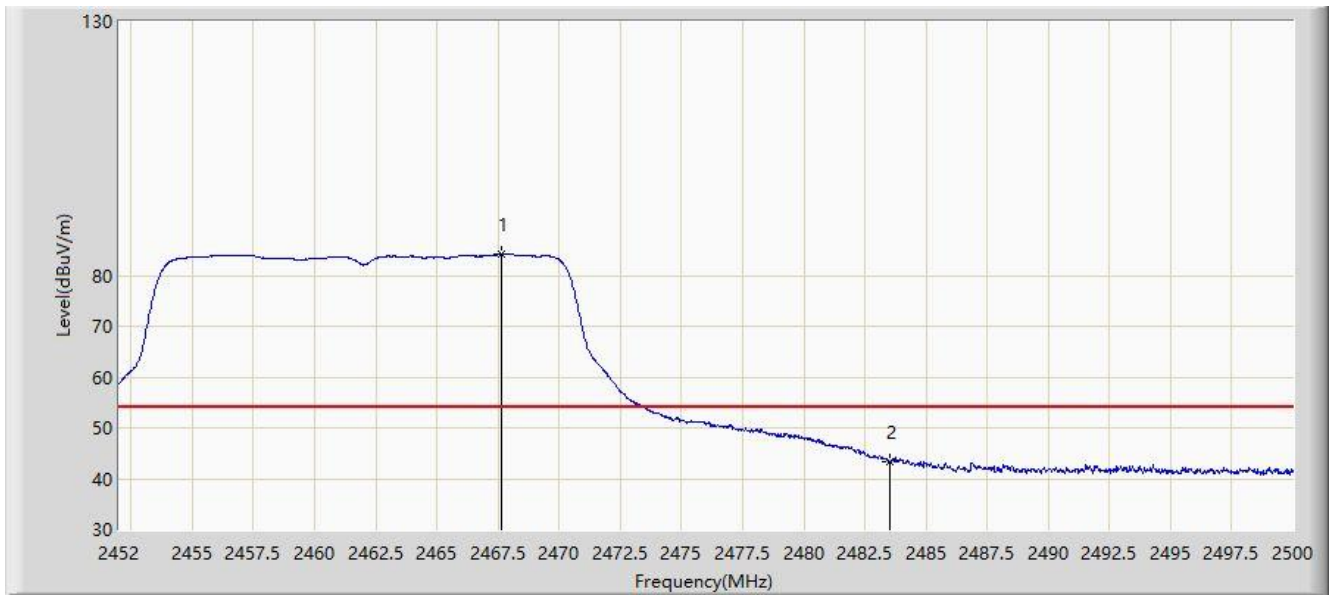


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	2464.000	91.678	60.717	N/A	N/A	30.961	PK
2			2483.500	57.333	26.312	-16.667	74.000	31.021	PK
3			2484.160	59.062	28.038	-14.938	74.000	31.023	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11g at Channel 2462MHz	

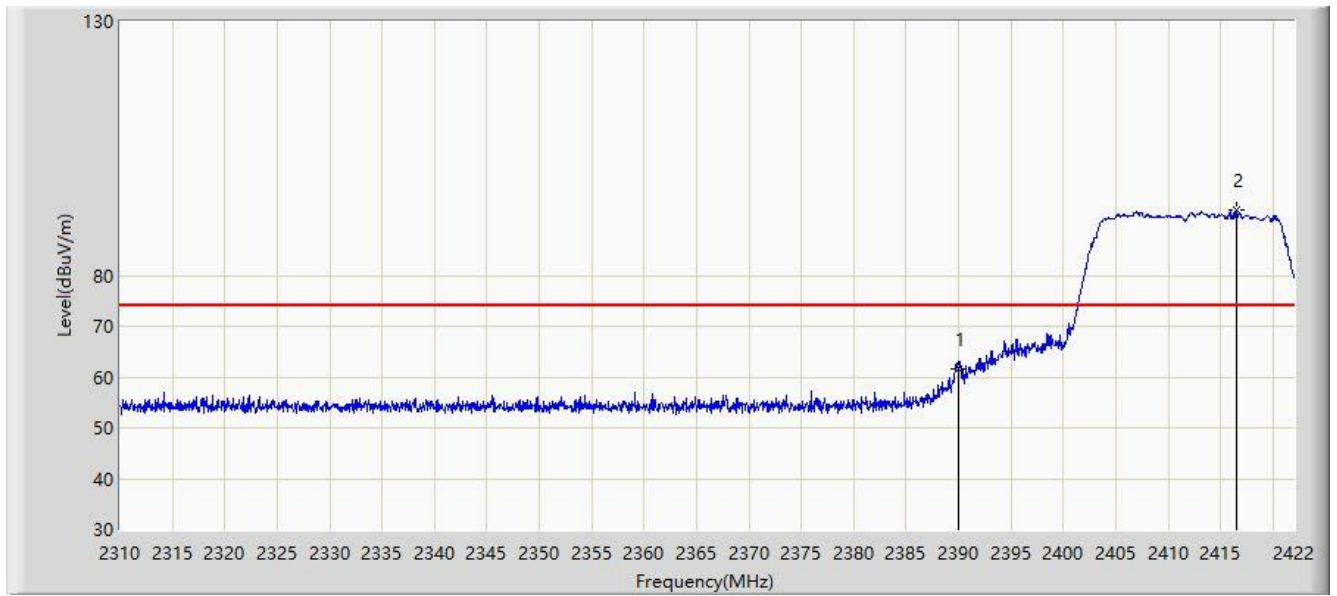


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2467.624	84.215	53.247	N/A	N/A	30.968	AV
2			2483.500	43.313	12.292	-10.687	54.000	31.021	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz	

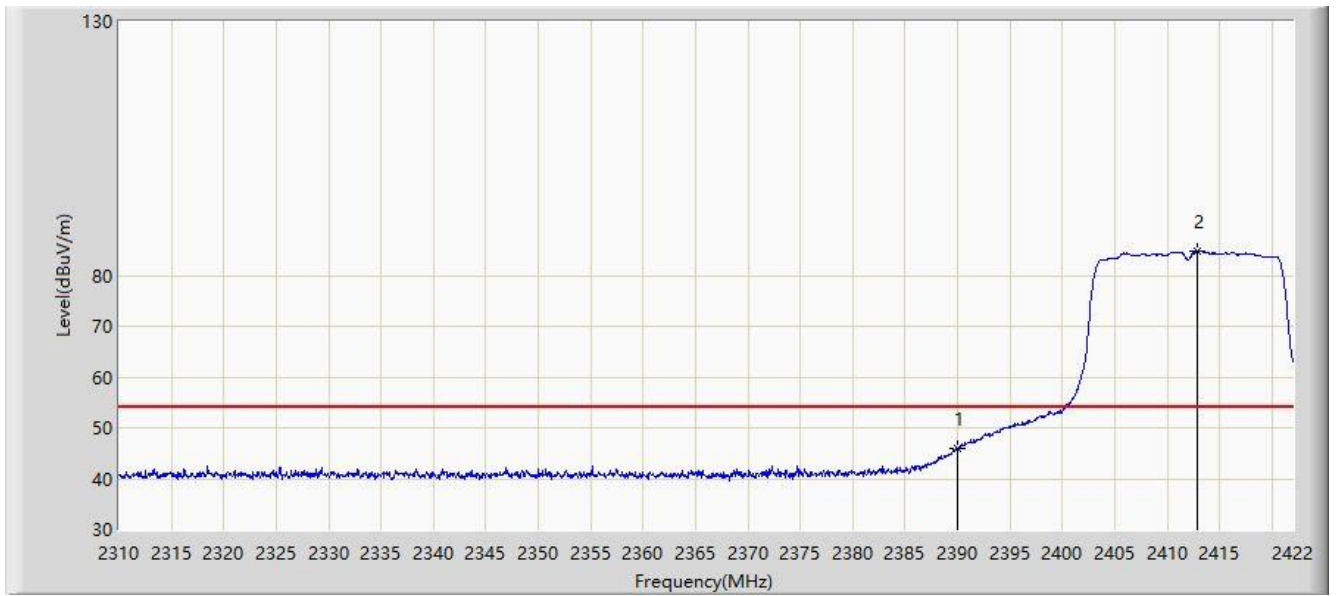


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2390.000	61.736	30.920	-12.264	74.000	30.816	PK
2		*	2416.568	92.910	62.076	N/A	N/A	30.835	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz	

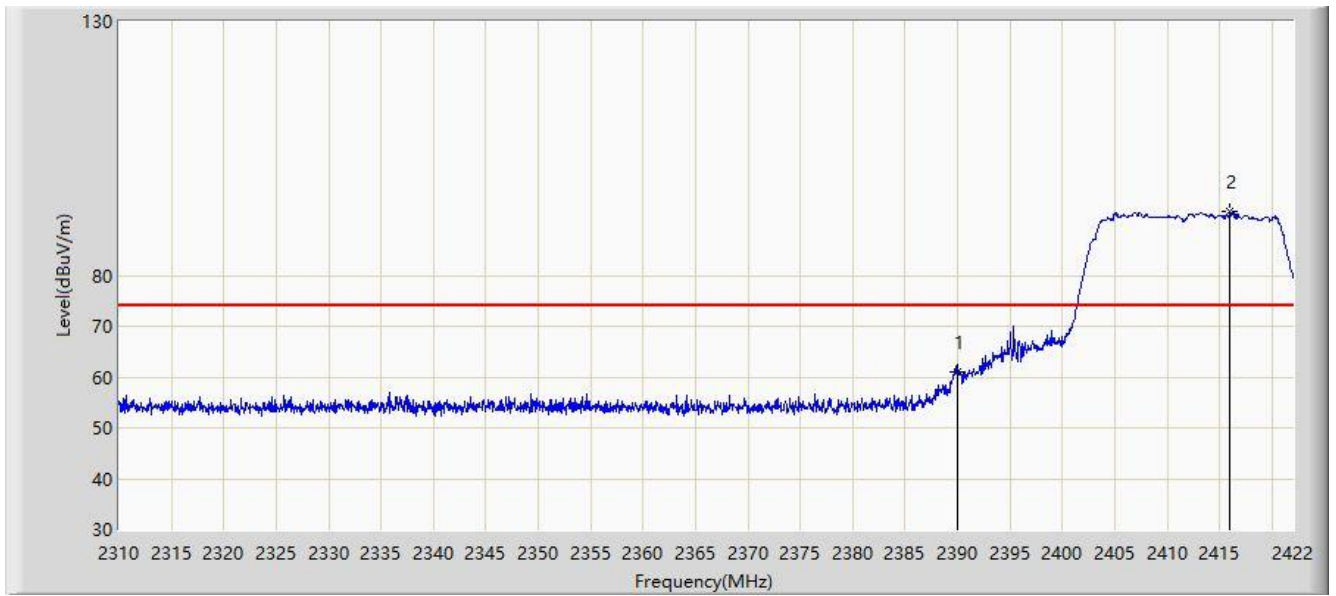


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2390.000	45.952	15.136	-8.048	54.000	30.816	AV
2		*	2412.816	84.828	53.993	N/A	N/A	30.835	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz	

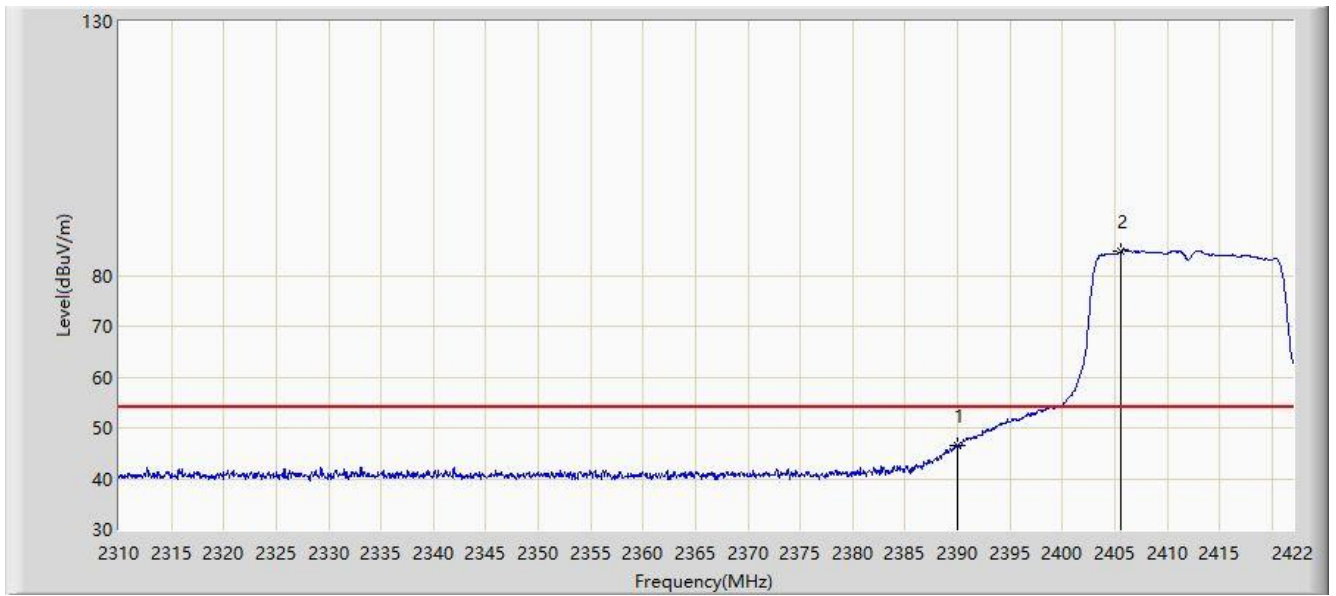


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2390.000	60.944	30.128	-13.056	74.000	30.816	PK
2		*	2415.952	92.589	61.755	N/A	N/A	30.835	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2390.000	46.454	15.638	-7.546	54.000	30.816	AV
2		*	2405.648	84.843	54.005	N/A	N/A	30.838	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz	

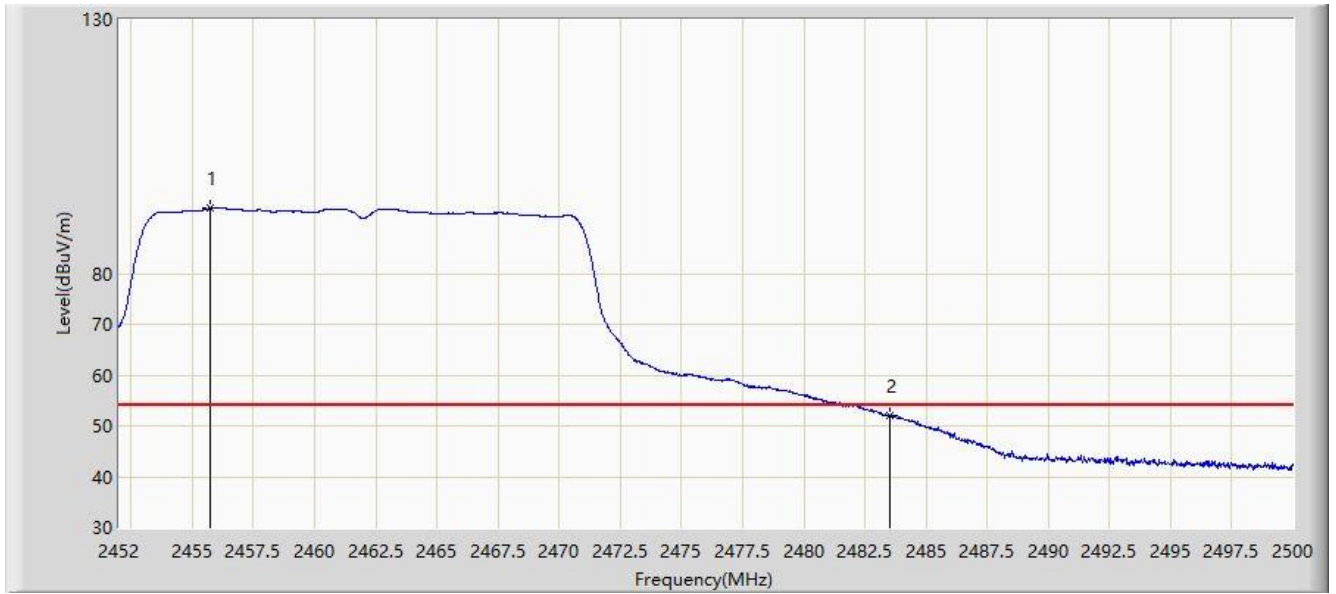


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2466.688	101.647	70.681	N/A	N/A	30.966	PK
2			2483.500	68.847	37.826	-5.153	74.000	31.021	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz	

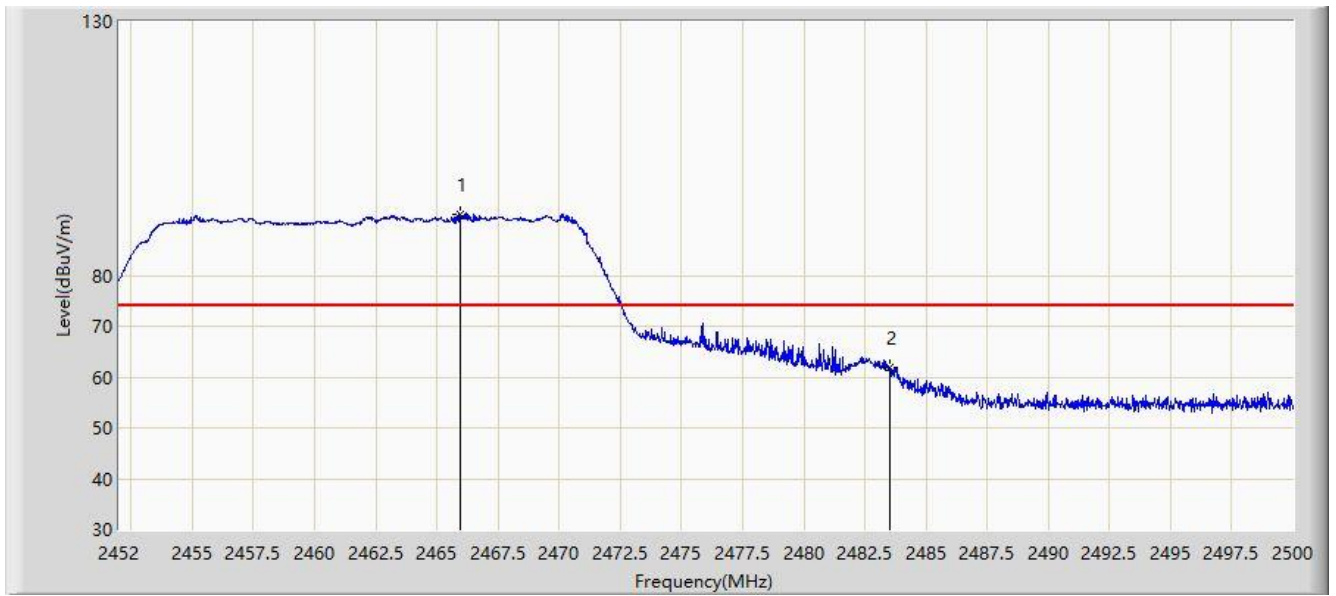


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	2455.744	92.890	61.942	N/A	N/A	30.948	AV
2			2483.500	51.997	20.976	-2.003	54.000	31.021	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz	

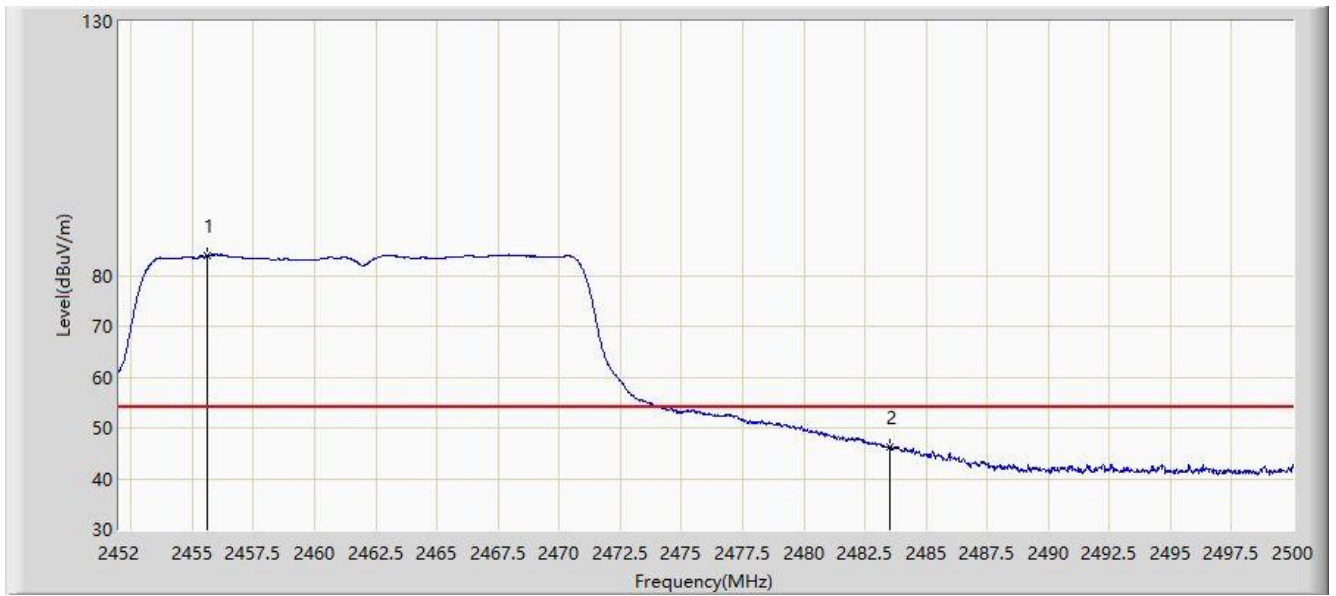


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2465.968	92.049	61.084	N/A	N/A	30.965	PK
2			2483.500	61.752	30.731	-12.248	74.000	31.021	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz	

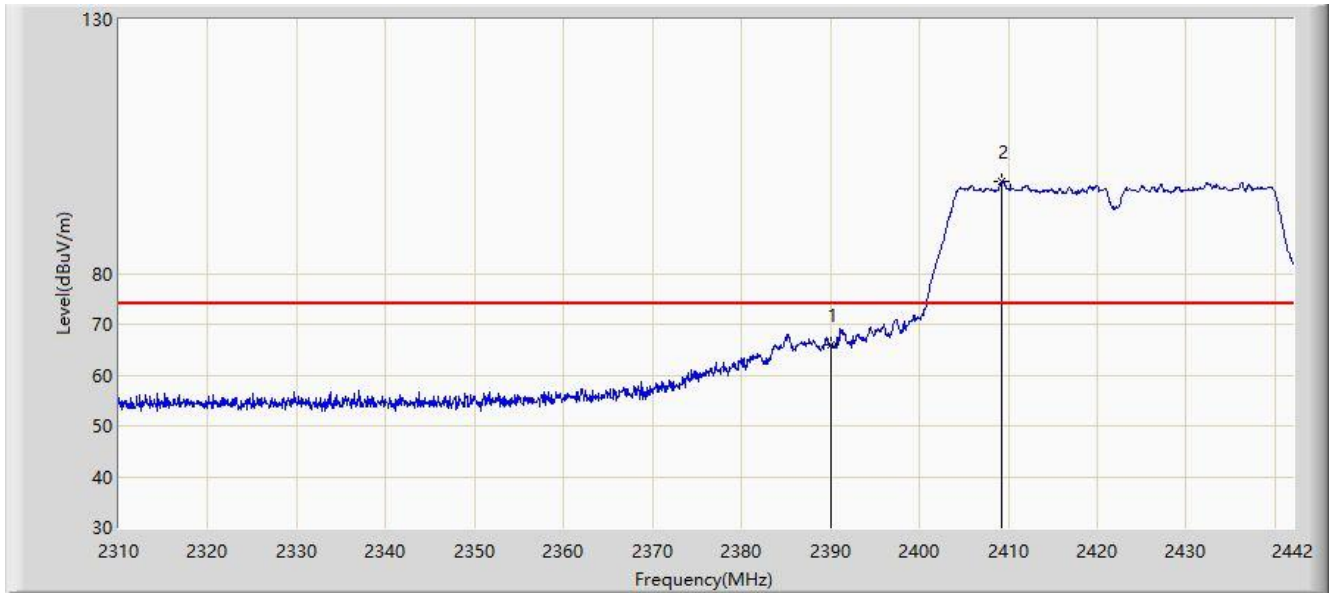


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	2455.624	83.919	52.972	N/A	N/A	30.947	AV
2			2483.500	46.110	15.089	-7.890	54.000	31.021	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz	

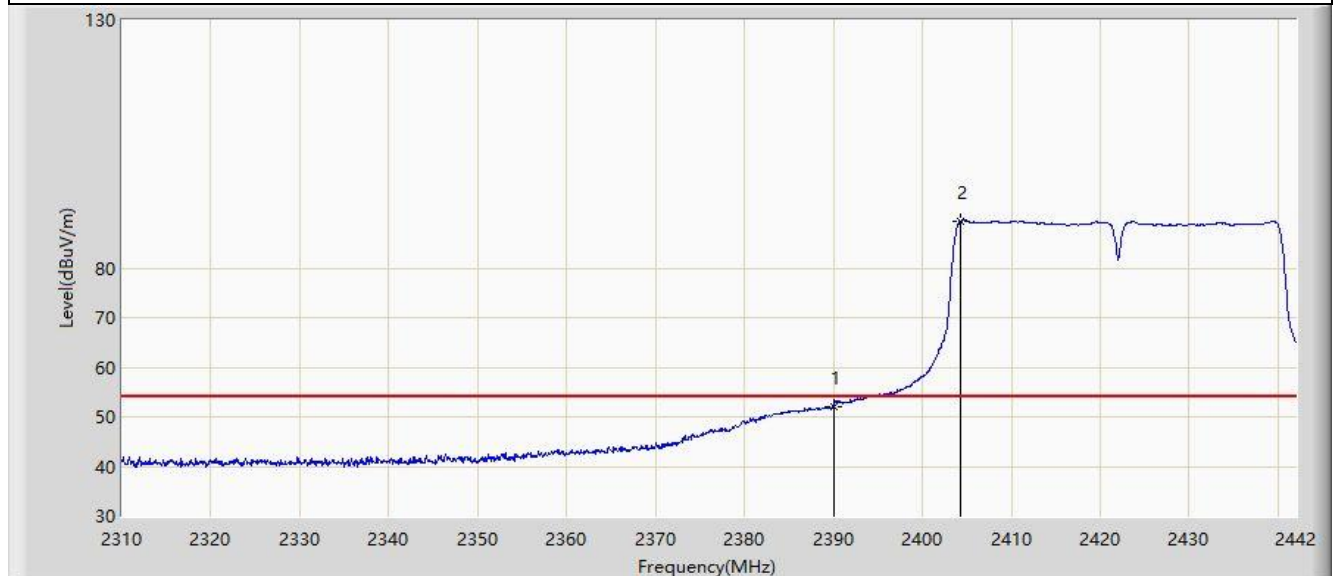


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2390.000	65.992	35.176	-8.008	74.000	30.816	PK
2		*	2409.198	97.983	67.147	N/A	N/A	30.836	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz	

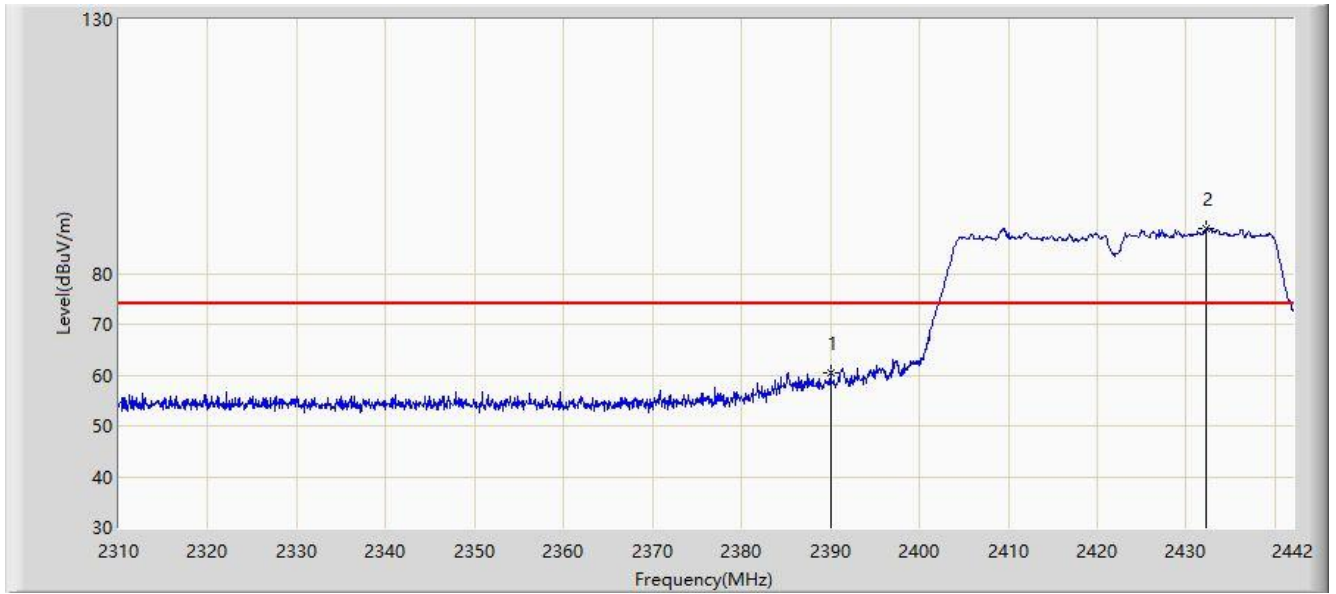


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			2390.000	52.083	21.267	-1.917	54.000	30.816	AV
2		*	2404.314	89.502	58.664	N/A	N/A	30.838	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz	

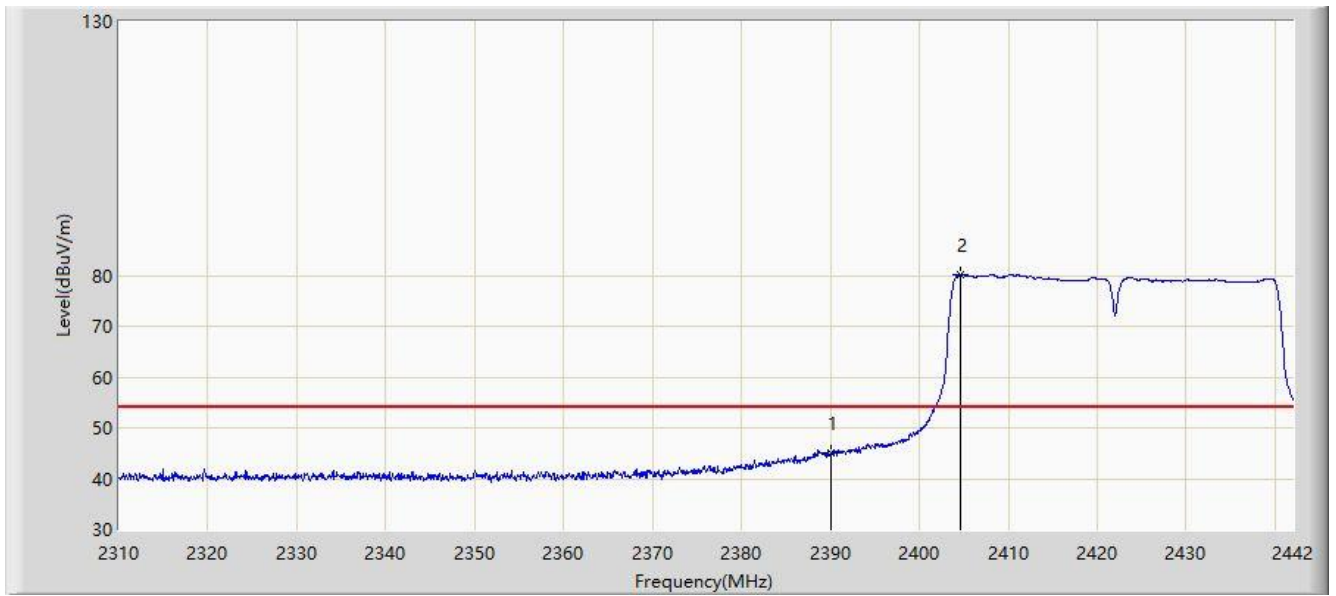


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2390.000	60.449	29.633	-13.551	74.000	30.816	PK
2		*	2432.298	88.854	57.979	N/A	N/A	30.875	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz	

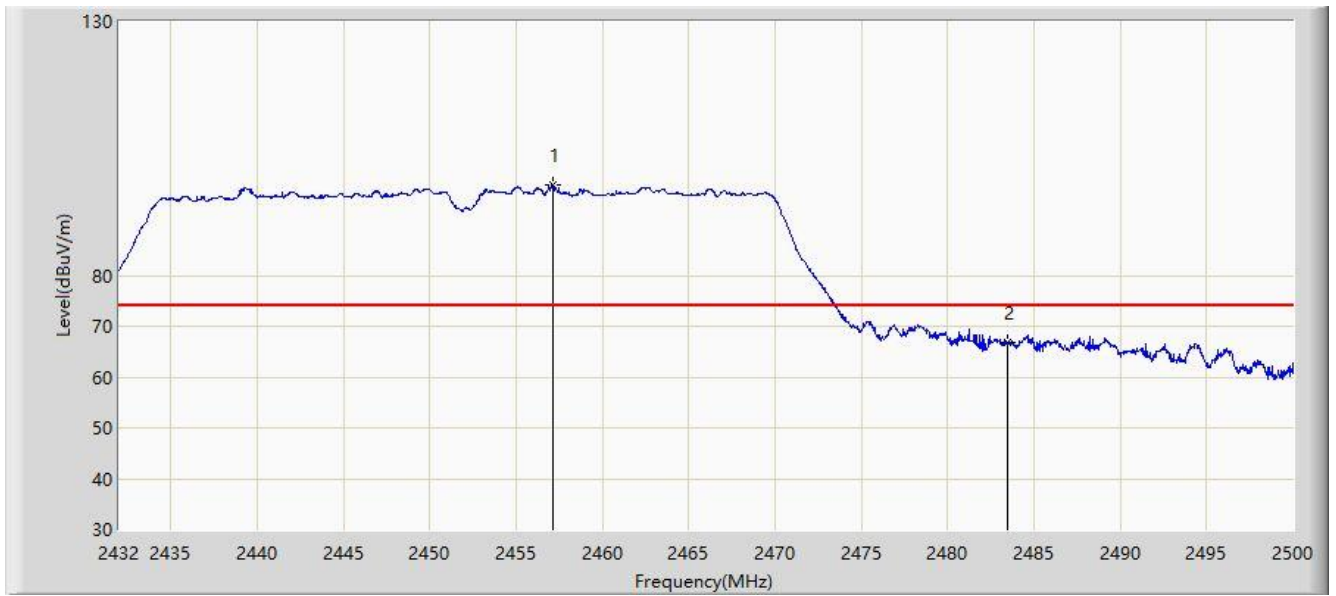


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2390.000	45.017	14.201	-8.983	54.000	30.816	AV
2		*	2404.578	80.192	49.354	N/A	N/A	30.838	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	

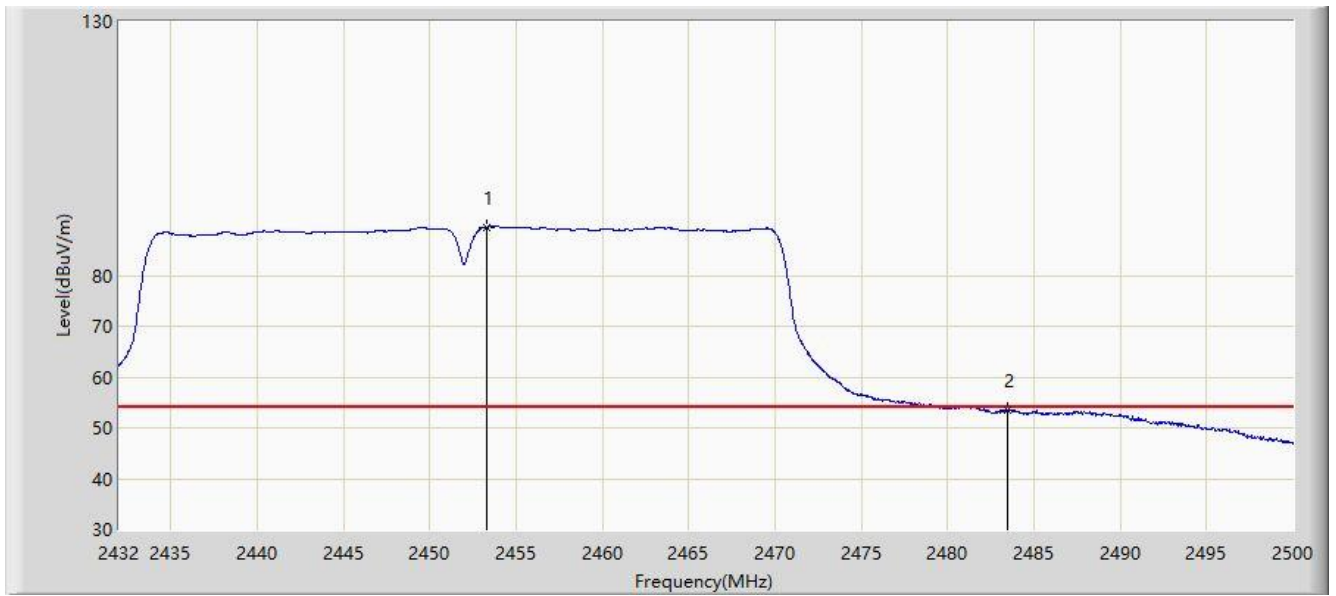


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2457.160	97.947	66.997	N/A	N/A	30.950	PK
2			2483.500	66.678	35.657	-7.322	74.000	31.021	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	

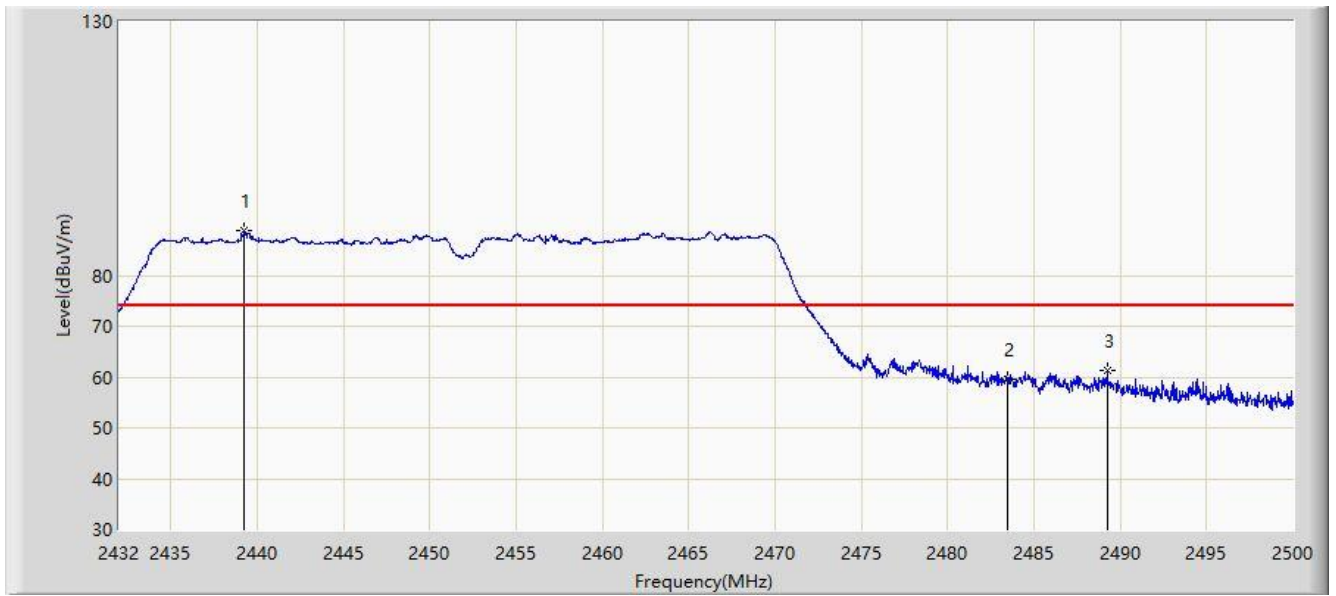


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2453.318	89.489	58.549	N/A	N/A	30.941	AV
2			2483.500	53.601	22.580	-0.399	54.000	31.021	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	

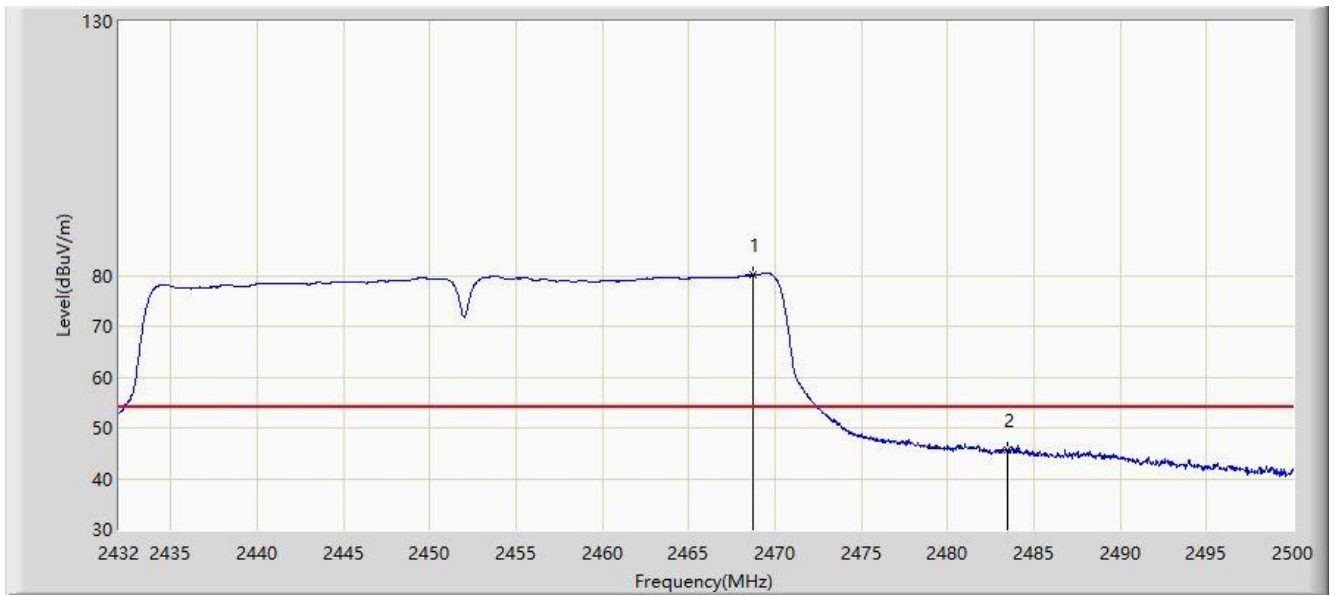


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	2439.242	88.860	57.960	N/A	N/A	30.900	PK
2			2483.500	59.563	28.542	-14.437	74.000	31.021	PK
3			2489.222	61.254	30.209	-12.746	74.000	31.045	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: WZ-AC1	Time: 2021/11/15
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SMARTconnect	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2468.754	80.176	49.206	N/A	N/A	30.970	AV
2			2483.500	45.590	14.569	-8.410	54.000	31.021	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

7. Conclusion

The data collected relate only the item(s) tested and show that the device was in complied with Part 15C of the FCC rules and ISED rules.

The End

Appendix A - Test Setup Photograph

Refer to “2110RSU051-UT” file.

Appendix B - EUT Photograph

Refer to “2110RSU051-UE” file.