



Test report No:  
23B0641R-RF-US-P06V03

# FCC TEST REPORT

Product Name	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth 2.1+EDR/4.2/5.1
Model and /or type reference	SKI.WB663U.2
FCC ID	2AR82-SKIWB663U21
IC	24728-SKIWB663U21
Applicant's name / address	Guangzhou Shikun Electronics Co., Ltd NO.6 Liankun Road, Huangpu District, Guangzhou 510530, China
Test method requested, standard	47 CFR FCC Part 15 (Section 15.247) RSS-Gen Issue5 RSS-247 Issue2
Verdict Summary	IN COMPLIANCE
Documented by (name / position & signature)	Tim Cao/Project Manager  <i>Tim Cao</i>
Approved by (name / position & signature)	Jack Zhang/ Manager  <i>Jack Zhang</i>
Date of issue	2023-12-26
Report Version	V1.0
Report template No	Template_FCC Part 15C-RF-V1.0

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## COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

**IMPORTANT:** No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

## GENERAL CONDITIONS

Test Location	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Date(receive sample)	Nov. 20, 2023
Date (start test)	Nov. 24, 2023
Date (finish test)	Dec. 08, 2023

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

## ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

## POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

## ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT	: Equipment Under Test
QP	: Quasi-Peak
CAV	: CISPR Average
AV	: Average
CDN	: Coupling Decoupling Network
SAC	: Semi-Anechoic Chamber
OATS	: Open Area Test Site
BW	: Bandwidth
AM	: Amplitude Modulation
PM	: Pulse Modulation
HCP	: Horizontal Coupling Plane
VCP	: Vertical Coupling Plane
$U_N$	: Nominal voltage
Tx	: Transmitter
Rx	: Receiver
N/A	: Not Applicable
N/M	: Not Measured

## DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
23B0641R-RF-US-P06V03	V1.0	Initial issue of report.	2023-12-26

## REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. This report is based on the certified module with only the antenna added, so only radiated spurious emissions and radiated band edge tests have been performed to demonstrate compliance with the requirements of Part 15 Subpart C 15.247(RSS-Gen Issue5 and RSS-247 Issue2) and to meet the requirements of the Calss II permissible variations. The module certification report number is 4790010773.1-3.
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.
4. The test results presented in this report relate only to the object tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:
  - Chapter 1.1 General Description of the Item(s);
  - Chapter 1.2 Antenna Informaion;
  - Chapter 1.3 Data Rate.
  - Chapter 1.4 Channel List.

## USED EQUIPMENT

### Maximum Conducted Output Power / TR8

Instrument	Manufacturer	Model No.	Serial No.	Cal.Date	Next Cal. Date	Firmware Version	Software version
Wireless Connectivity Tester	R&S	CMW 270	102593	2023.05.20	2024.05.19	V 4.0.60	N/A
Coaxial Cable	N/A	N/A	2477	2023.06.08	2024.06.07	N/A	N/A
Coaxial Cable	N/A	N/A	2478	2023.06.08	2024.06.07	N/A	N/A
High and low temperature and fast temperature change test box	ASTUOD	ASTD-FBT-225K	N/A	2023.05.20	2024.05.19	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	RF08	2023.08.25	2024.08.24	N/A	N/A
Test system							
Instrument	Manufacturer	Model No.	Serial No.	Cal.Date	Next Cal. Date	Firmware Version	Software version
MAX Signal Analyzer	Keysight	N9010A	MY48030494	2023.11.08	2024.11.07	A.14.03	N/A
RF Control Unit	Tonscend	JS0806-2	22G8060594	2023.02.04	2024.02.03	N/A	N/A
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY61252529	2023.05.20	2024.05.19	B.01.96	N/A
Frequency extender for EXG or MXG	Keysight	N5182BX07	MY59362500	2023.05.20	2024.05.19	N/A	N/A
EXG-B MW Analog Signal Generator	Keysight	N5173B	MY61252566	2023.08.26	2024.08.25	B.01.95	N/A
Test Software	Tonscend	TS1120	JS1120-3	N/A	N/A	N/A	V3.0.22

### Radiated Emission(9kHz-1GHz) / AC3

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
EMI Test Receiver	R&S	ESCI	100573	2023.09.17	2024.09.16	4.42 SP3	N/A
Loop Antenna	R&S	HFH2-Z2E	101149	2023.04.25	2024.04.24	N/A	N/A
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2023.02.20	2024.02.19	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	AC2-TH	2023.05.19	2024.05.18	N/A	N/A
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2023.05.21	2024.05.20	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3

Radiated Emission (1GHz-40GHz) / AC5

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
EXA Spectrum Analyzer	Keysight	N9020B	MY60112218	2023.11.08	2024.11.07	A.31.05	N/A
Pre-Amplifier	SKET	LNPA_0118G-45	SK2021090101	2023.05.14	2024.05.13	N/A	N/A
Preamplifier	CHENGYI	EMC184045SE	980263	2023.07.09	2024.07.08	N/A	N/A
DRG Horn	ETS-Lindgren	3117	123988	2023.11.07	2024.11.06	N/A	N/A
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2023.05.31	2024.05.30	N/A	N/A
Filter Switch Box	MVE	MSW-F196	C070001S	2023.05.21	2024.05.20	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	AC5-TH	2023.05.19	2024.05.18	N/A	N/A
Coaxial Cable	ROSENBERGER	LA1-C011-2000/3000	AC5-40G	2023.03.04	2024.03.03	N/A	N/A
Coaxial Cable	ROSENBERGER	LA1-C011-2000/3000	AC5-40G-2	2023.05.21	2024.05.20	N/A	N/A
Cable	Rosenberger	LA1-C011-1000	0523	2023.05.21	2024.05.20	N/A	N/A
Cable	Rosenberger	LA1-C011-1000	0623	2023.02.16	2024.02.15	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3



## UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95% .

Test item	Uncertainty
AC Power Line Conducted Emission	9kHz~150kHz: 2.80dB 150kHz~30MHz: 2.40dB
Peak Power Output	$\pm 1.27$ dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~200MHz: 3.50 dB 300MHz~1GHz: 3.60 dB Vertical: 30MHz~200MHz: 3.60 dB 300MHz~1GHz: 3.50 dB
Radiated Emission(1GHz~26.5GHz)	Horizontal: 1GHz~18GHz: 5.00 dB Vertical: 1GHz~18GHz: 4.80 dB
RF antenna conducted test	$\pm 1.27$ dB
Radiated Emission Band Edge	$\pm 3.9$ dB
DTS Bandwidth	$\pm 150$ Hz
Occupied Bandwidth	$\pm 1$ kHz
Power Density	$\pm 1.27$ dB

# 1 GENERAL INFORMATION

## 1.1 General Description of the Item(s)

Product Name.....:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth 2.1+EDR/4.2/5.1
Model No. ....:	SKI.WB663U.2
FCC ID.....:	2AR82-SKIWB663U21
IC.....:	24728-SKIWB663U21
Manufacturer .....	Guangzhou Shikun Electronics Co., Ltd
Manufacturer address.....:	NO.6 Liankun Road, Huangpu District, Guangzhou 510530, China
Factory.....:	Guangzhou Shikun Electronics Co., Ltd
Factory address.....:	NO.6 Liankun Road, Huangpu District, Guangzhou 510530, China

Wireless specification .....	802.11b/g/n
Operating frequency range(s).....:	802.11b/g/n(20MHz): 2412~2472MHz 802.11n(40MHz): 2422~2462MHz
Type of Modulation .....	802.11b: DSSS-DBPSK, DQPSK, CCK 802.11g/n: OFDM-BPSK, QPSK, 16QAM, 64QAM
Number of channels .....	802.11b/g/n(20MHz): 13 802.11b/g/n(40MHz): 9

Rated power supply .....	Voltage and Frequency	
	<input type="checkbox"/>	AC: 220 - 240 Vac, 50/60 Hz
	<input type="checkbox"/>	AC: 100 - 240 Vac, 50/60 Hz
	<input checked="" type="checkbox"/>	DC: 3.3 Vdc
	<input type="checkbox"/>	Battery:
	<input type="checkbox"/>	Adapter: .....
Brand of adapter .....	N/A	
Adapter model.....:	N/A	
Mounting position.....:	<input type="checkbox"/>	Table top equipment
	<input type="checkbox"/>	Wall/Ceiling mounted equipment
	<input type="checkbox"/>	Floor standing equipment
	<input type="checkbox"/>	Hand-held/Portable equipment
	<input checked="" type="checkbox"/>	Other: RF Module

## 1.2 Antenna Information

Antenna model / type number .....	N12-8964-R0A	N12-8963-R0A	N12-8967-R0A	N12-8966-R0A	N12-8967-R0A	N12-8965-R0A
Antenna serial number .....	61005-00729	61005-00737	61005-00737	61005-00736	61005-00737	61005-00734
Host model .....	LG-50		LG-55		LG-NA-65	
Antenna Delivery .....	<input checked="" type="checkbox"/>	1TX + 1RX				
	<input checked="" type="checkbox"/>	2TX + 2RX				
	<input type="checkbox"/>	Others:.....				
Antenna technology.....	<input checked="" type="checkbox"/>	SISO				
	<input checked="" type="checkbox"/>	MIMO	<input checked="" type="checkbox"/>	CDD		
			<input type="checkbox"/>	Beam-forming		
Antenna Type .....	<input checked="" type="checkbox"/>	External	<input type="checkbox"/>	Dipole		
			<input type="checkbox"/>	Sectorized		
			<input checked="" type="checkbox"/>	FPC		
	<input type="checkbox"/>	Internal	<input type="checkbox"/>	Ceramic Chip		
			<input type="checkbox"/>	PIFA		
			<input type="checkbox"/>	PCB		
			<input type="checkbox"/>	Others.....		
Antenna Gain.....	<b>LG-50:</b>		<b>LG-55:</b>		<b>LG-NA-65:</b>	
	<b>Main Antenna(Wifi1):</b> N12-8964-R0A: 2.4G 5.87dBi <b>Aux Antenna(Wifi0):</b> N12-8963-R0A: 2.4G 5.93dBi		<b>Main Antenna(Wifi1):</b> N12-8967-R0A: 2.4G 6.45dBi <b>Aux Antenna(Wifi0):</b> N12-8966-R0A: 2.4G 6.15dBi		<b>Main Antenna(Wifi1):</b> N12-8967-R0A: 2.4G 6.55dBi <b>Aux Antenna(Wifi0):</b> N12-8965-R0A: 2.4G 6.12dBi	
	Note: The main antenna used in the test is N12-8967-R0A(LG-NA-65) which had the highest gain, and aux antenna is N12-8966-R0A(LG-55) . Directional gain for MIMO-CDD power is 6.55dBi, for PSD is 9.56dBi.					

### 1.3 Data Rate

#### IEEE 802.11b

Modulation	Data Rate(Mb/s)
DSSS	1
DSSS	2
CCK	5.5
CCK	11

#### IEEE 802.11g

Modulation	R	Data Rate(Mb/s)
BPSK	1/2	6
BPSK	3/4	9
QPSK	1/2	12
QPSK	3/4	18
16-QAM	1/2	24
16-QAM	3/4	36
64-QAM	2/3	48
64-QAM	3/4	54

#### IEEE 802.11n

Spatial streames	MCS Index	Modulation	R	Data Rate(Mb/s)			
				800ns GI		400ns GI	
				20MHz	40MHz	20MHz	40MHz
1	0	BPSK	1/2	6.5	13.5	7.2	15.0
1	1	QPSK	1/2	13.0	27.0	14.4	30.0
1	2	QPSK	3/4	19.5	40.5	21.7	45.0
1	3	16-QAM	1/2	26.0	54.0	28.9	60.0
1	4	16-QAM	3/4	39.0	81.0	43.3	90.0
1	5	64-QAM	2/3	52.0	108.0	57.8	120.0
1	6	64-QAM	3/4	58.5	121.5	65.0	135.0
1	7	64-QAM	5/6	65.0	135.0	72.2	150.0

Note 1: Support of 400ns GI is optional on transmit and receive.

Symbol	Explanation
R	Code rate
GI	guard interval

Note: The data rate marks blue are the worst.

## 1.4 Channel List

### IEEE 802.11b/g & IEEE 802.11n(20MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
001	2412 MHz	002	2417 MHz	003	2422 MHz	004	2427 MHz
005	2432 MHz	006	2437 MHz	007	2442 MHz	008	2447 MHz
009	2452 MHz	010	2457 MHz	011	2462 MHz	012	2467 MHz
013	2472 MHz	N/A	N/A	N/A	N/A	N/A	N/A

### IEEE 802.11n(40MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
003	2422 MHz	004	2427 MHz	005	2432 MHz	006	2437 MHz
007	2442 MHz	008	2447 MHz	009	2452 MHz	010	2457 MHz
011	2462 MHz	012	N/A	N/A	N/A	N/A	N/A

Note: The general description of the Item(s), antenna information, data rate and channel list in clause 1 are provided and confirmed by the client.

## 2 DESCRIPTION OF TEST SETUP

### 2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

Test Mode For Bluetooth	Mode 1: Transmit by 802.11b
	Mode 2: Transmit by 802.11g
	Mode 3: Transmit by 802.11n(20MHz)
	Mode 4: Transmit by 802.11n(40MHz)

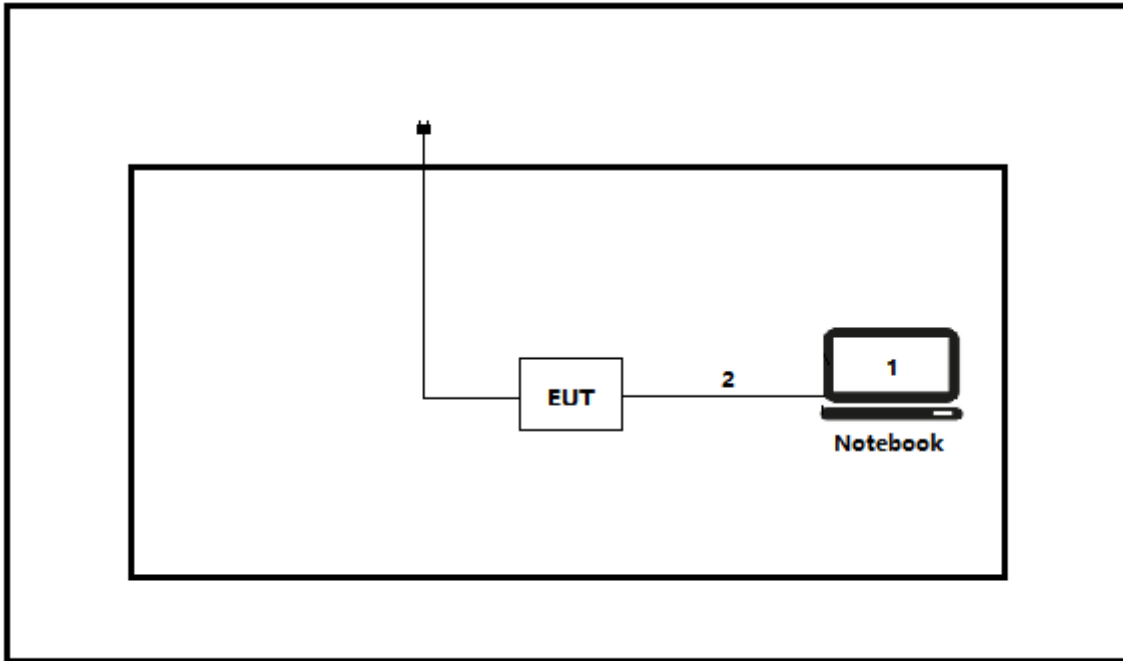
### 2.2 Auxiliary equipment / Test software for the EUT

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
(1) Notebook	Think pad x220	Lenovo	Adapter
(2) USB Control Cable	N/A	N/A	N/A
(3) USB Control Cable	N/A	N/A	N/A
Software	Type / Version	Manufacturer	Supplied by
MT7663_Win10_Driver_QA_Combo_Tool	N/A	N/A	N/A

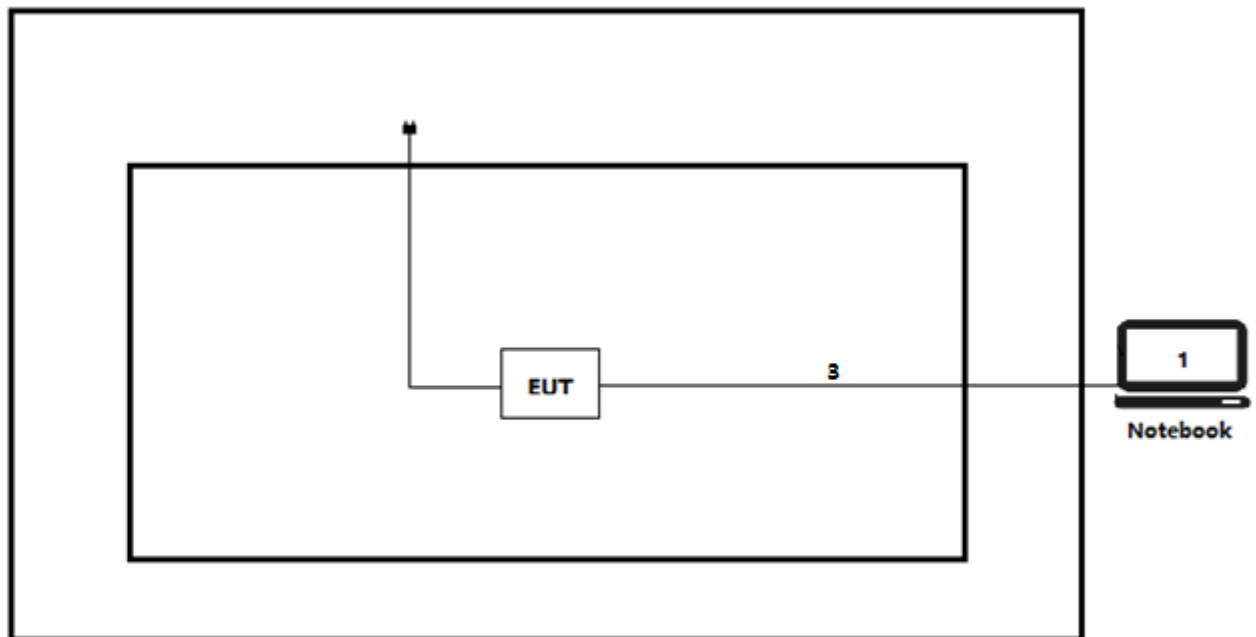
Accessories Information	Cable		
	Length used during test [m]	Attached during test	Shielded
(2)USB Control Cable	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
(3)USB Control Cable	8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

### 2.3 Test Configuration / Block diagram used for tests

Test setup Diagram- Conducted test



Test setup Diagram- Radiated test



## 2.4 Testing process

1	Setup the EUT shown in Section 2.3.
2	Execute the [MT7663_Win10_Driver_QA_Combo_Tool] on the notebook.
3	Configure the test mode, the test channel, and the data rate.
4	Verify that the EUT works properly.



### 3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

#### 3.1 Standards

Standard	Year	Description
FCC CFR Title 47 Part 15 Subpart E Section 15.247	2023	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.
ANSI C63.10	2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB558074 D01 v05r02	2019	Guidance for performing compliance measurements on Digital Transmission System (DTS) operating under section 15.247
KDB 662911 D01V02r01	2013	Emissions Testing of Transmitters with Multiple Outputs in the Same Band
RSS-Gen	2019	General Requirements for Compliance of Radio Apparatus
RSS-247	2017	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

#### 3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

*(Please define the deviations from the standard(s) if applicable)*

### 3.3 Overview of results

Requirement – Test Item of FCC	Standard(s)	Verdict	Remark
Maximum conducted output power	FCC 15.247(b)3 RSS-247 Issue 2 Paragraph 5.4(d)	PASS	Test data please refer to <b>Appendix A</b>
Band edge measurements	FCC 15.247(d) FCC 15.205 FCC 15.209 RSS-Gen Issue 5 Paragraph 8.10	PASS	Test data please refer to <b>Appendix B</b>
Emissions in Restricted Bands	FCC 15.205 FCC 15.209 RSS-Gen Issue 5 Paragraph 8.9	PASS	Test data please refer to <b>Appendix C</b>
Antenna Requirement	FCC 15.203 RSS-Gen Issue 5 Paragraph 6.8	PASS	---

### 3.4 Power setting in test

Mode	Channel	Frequency (MHz)	Power setting	
			Ant 1	Ant2
802.11b	01	2412	12	13
	07	2442	13	13
	13	2472	13	13
802.11g	01	2412	14	14
	07	2442	14	14
	13	2472	14	14
802.11n(20MHz)	01	2412	15	15
	07	2442	15	15
	13	2472	15	15
802.11n(40MHz)	03	2422	0F	0F
	07	2442	0F	0F
	11	2462	0F	0F

### 3.5 Test Matrix

Test item	Model: SKI.WB663U.2		
	1(#1)	2()	3()
DTS Bandwidth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maximum conducted output power	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maximum power spectral density	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Band edge measurements	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conducted Spurious Emission	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Duty cycle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Emissions in Restricted Bands	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AC Power Line Conducted Emission	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Antenna Requirement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

---

### **3.6 Test Facility**

<b>USA</b>	<b>:</b>	<b>FCC Designation Number: CN1199</b>
<b>CA</b>	<b>:</b>	<b>ISED CAB identifier: CN0040</b>

## 4 TEST ITEMS OF LIMIT/SETUP/PROCEDURE

### 4.1 Maximum Conducted Output Power

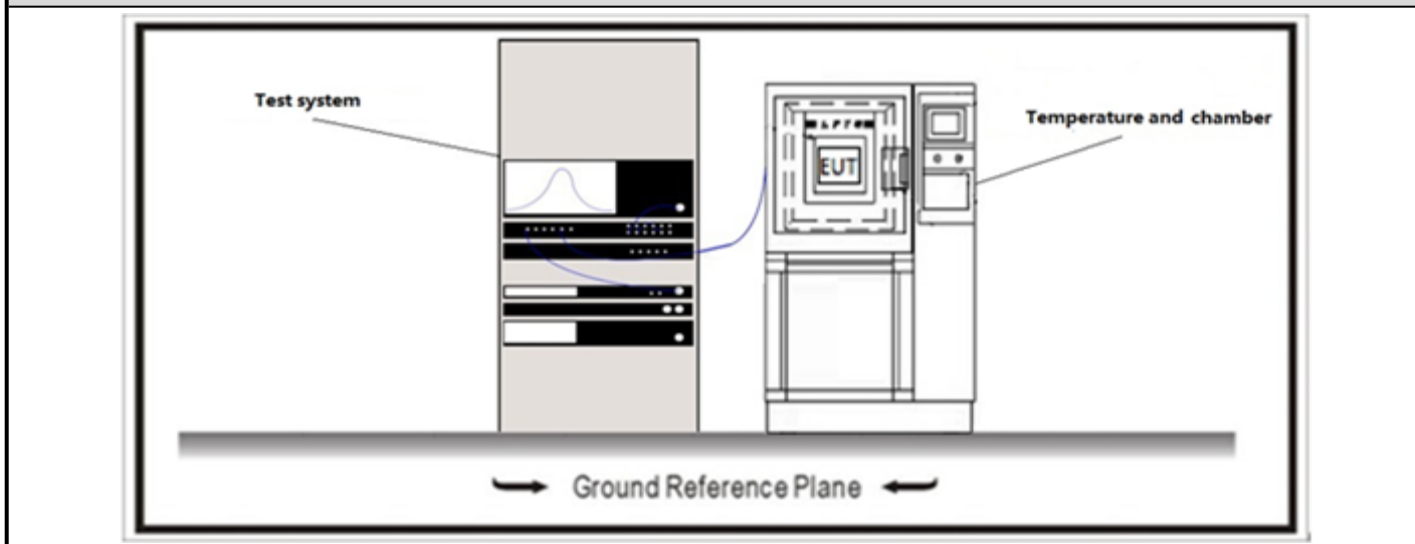
VERDICT: PASS

#### 4.1.1 Limit

<b>Standard</b>		FCC Part 15 Subpart C Paragraph 15.247 (b)(3); RSS-247 Issue 2 Paragraph 5.4(d).
<input checked="" type="checkbox"/>	GTX < 6dBi	$P_{out} \leq 30 \text{ dBm}$
<input type="checkbox"/>	GTX > 6dBi	
<input type="checkbox"/>	Non-Fix point-point	$P_{out} \leq 30 - (GTX - 6)$
<input type="checkbox"/>	Fix point-point	$P_{out} \leq 30 - [(GTX - 6)]/3$
<input type="checkbox"/>	Point-to-multipoint	$P_{out} \leq 30 - (GTX - 6)$
<input type="checkbox"/>	Overlap Beams	$P_{out} \leq 30 - [(GTX - 6)]/3$
<input type="checkbox"/>	Aggregate power transmitted simultaneously on all beams	$P_{out} \leq 30 - [(GTX - 6)]/3$
<input type="checkbox"/>	single directional beam	$P_{out} \leq 30 - [(GTX - 6)]/3 + 8 \text{ dB}$

Note 1 : GTX directional gain of transmitting antennas.  
Note 2 : Pout is maximum peak conducted output power .

#### 4.1.2 Test Setup



**4.1.3 Test Procedure**

	References Rule		Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10		11.9	Fundamental emission output power
<input checked="" type="checkbox"/>	ANSI C63.10		11.9.1	Maximum peak conducted output power
	<input type="checkbox"/>	ANSI C63.10	11.9.1.1	RBW ≥ DTS bandwidth
	<input type="checkbox"/>	ANSI C63.10	11.9.1.2	Integrated band power method
	<input checked="" type="checkbox"/>	ANSI C63.10	11.9.1.3	PKPM1 Peak power meter method
<input type="checkbox"/>	ANSI C63.10		11.9.2	Maximum conducted (average) output power
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2	Measurement using a spectrum analyzer (SA)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.2	Method AVGSA-1(Duty cycle ≥98%)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.3	Method AVGSA-1A(Duty cycle ≥98%)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.4	Method AVGSA-2(Duty cycle ≤98%)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.5	Method AVGSA-2A(Duty cycle ≤98%)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.4	Method AVGSA-3
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.5	Method AVGSA-3A
	<input type="checkbox"/>	ANSI C63.10	11.9.2.3	Measurement using a power meter (PM)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.3.1	Method AVGPM
	<input type="checkbox"/>	ANSI C63.10	11.9.2.3.2	Method AVGPM-G

Directional Gain Calculations for In-Band test method				
	References Rule		Chapter	Description
<input type="checkbox"/>	KDB 662911		F2)a)	Basic methodology
	<input type="checkbox"/>	KDB 662911	F2)a) (i)	transmit signals are correlated
	<input type="checkbox"/>	KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
<input type="checkbox"/>	KDB 662911		F2)b)	Sectorized antenna systems.
<input type="checkbox"/>	KDB 662911		F2)c)	Cross-polarized antennas
	<input type="checkbox"/>	ANSI C63.10	F2)c) (i)	Cross-polarized antennas
	<input type="checkbox"/>	ANSI C63.10	F2)c) (ii)	Multiple antennas
<input type="checkbox"/>	KDB 662911		F2)e)	Spatial stream
	<input checked="" type="checkbox"/>	KDB 662911	F2)e) (i)	Antennas have the same gain
	<input type="checkbox"/>	KDB 662911	F2)e) (ii)	Antenna have the different gain with one spatial stream
	<input type="checkbox"/>	KDB 662911	F2)e) (iii)	Antenna have the different gain with more than one spatial stream
<input checked="" type="checkbox"/>	KDB 662911		F2)f)	Cyclic Delay Diversity (CDD)
	<input checked="" type="checkbox"/>	KDB 662911	F2)f) (i)	Antennas have the same gain
	<input type="checkbox"/>	KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	<input type="checkbox"/>	KDB 662911	F2)f) (iii)	Antenna have the different gain with more than one spatial stream

<b>4.2 Band Edge Measurements</b>	<b>VERDICT: PASS</b>
-----------------------------------	----------------------

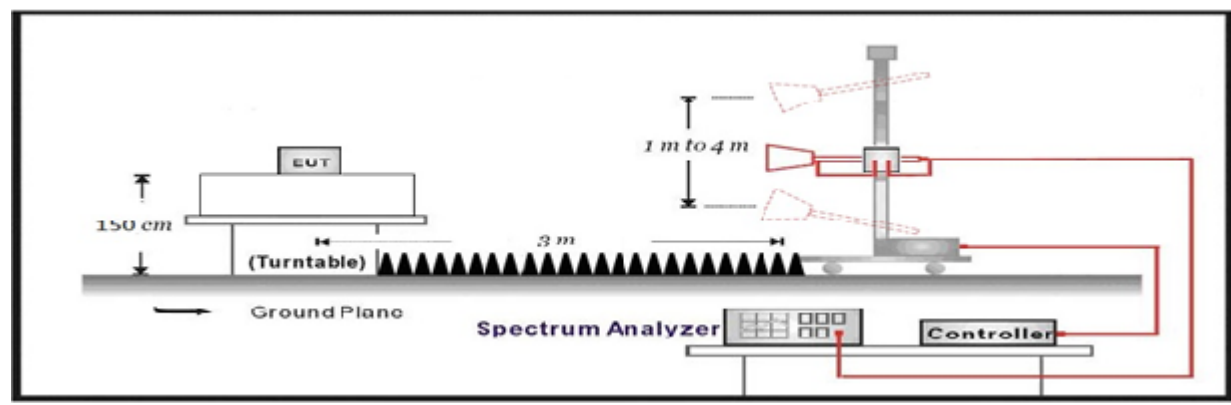
**4.2.1 Limit**

<b>Standard</b>		FCC Part 15 Subpart C Paragraph 15.247(d) , 15.209;		
Frequency bands (MHz)	Detector	Limit (dBµV/m)	RBW (MHz)	Distance (m)
2310-2390	PK	74	1	3
2483.5-2500	AV	54	1	3

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.

**4.2.2 Test Setup**

Above 1GHz Test Setup:



**4.2.3 Test Procedure**

	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	6.10	Band-edge testing
	<input checked="" type="checkbox"/> ANSI C63.10	6.10.5	Restricted-band band-edge measurements
	<input type="checkbox"/> ANSI C63.10	6.10.6	Marker-delta method
<input checked="" type="checkbox"/>	ANSI C63.10	11.12	Emissions in restricted frequency bands
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.1	Radiated emission measurements
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.7	Radiated spurious emission test
<input type="checkbox"/>	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
<input type="checkbox"/>	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
<input checked="" type="checkbox"/>	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz



**4.3 Emissions in Restricted Bands**

**VERDICT: PASS**

**4.3.1 Limit**

**Standard**

FCC Part 15 Subpart C Paragraph 15.205

Restricted Bands of operation

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
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
8.81425 – 8.81475	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	
13.36 – 13.41			

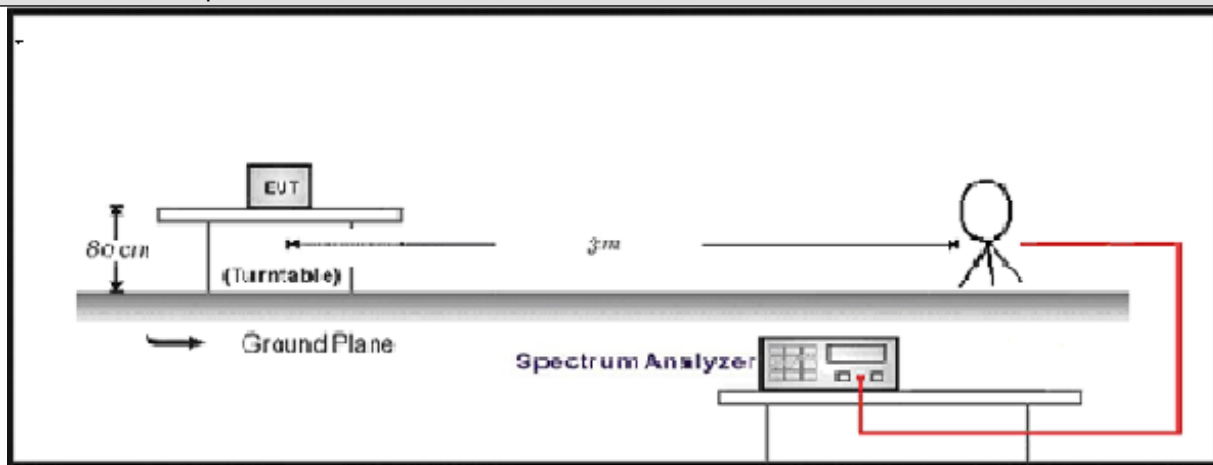
Restricted Band Emissions Limit			
FCC Part 15 Subpart C Paragraph 15.209			
Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 <sub>(Note 1)</sub>
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 <sub>(Note 1)</sub>
1.705 - 30	30	29.5	30 <sub>(Note 1)</sub>
30 - 88	100	40	3 <sub>(Note 2)</sub>
88 - 216	150	43.5	3 <sub>(Note 2)</sub>
216 - 960	200	46	3 <sub>(Note 2)</sub>
Above 960	500	54	3 <sub>(Note 2)</sub>

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

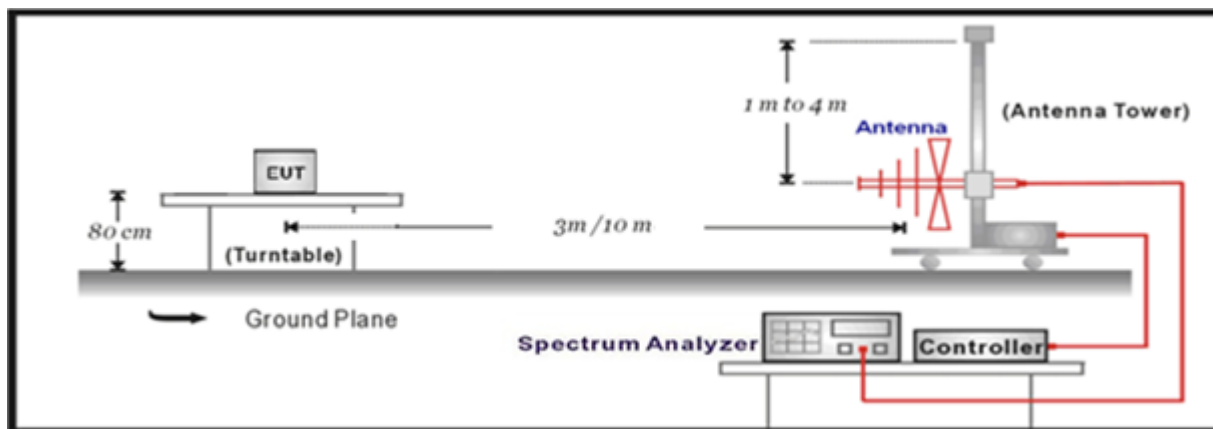
Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

### 4.3.2 Test Setup

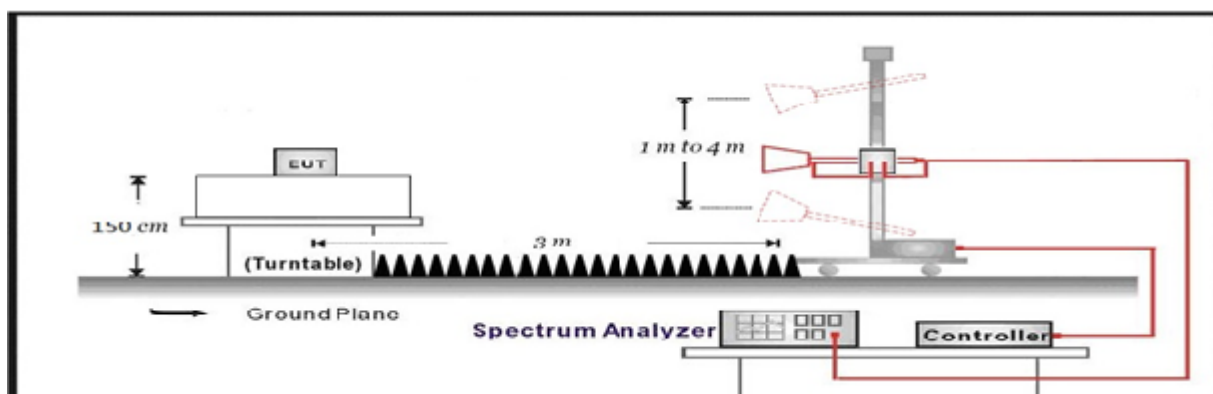
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.3.3 Test Procedure			
	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	11.12	Emissions in restricted frequency bands
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ANSI C63.10	11.12.1	Radiated emission measurements
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.7	Radiated spurious emission test
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

**4.4 Antenna Requirement**

**VERDICT: PASS**

**4.4.1 Limit:**

**Standard**

FCC Part 15 Subpart C Paragraph 15.203;

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall 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 manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

**4.4.2 Antenna Connector Construction:**

<input checked="" type="checkbox"/>	The use of a permanently attached antenna
<input type="checkbox"/>	The antenna use of a unique coupling to the intentional radiator
<input type="checkbox"/>	The use of a nonstandard antenna jack or electrical connector
Please refer to the attached document "Internal Photograph" to show the antenna connector.	

**5 TEST SETUP PHOTO AND EUT PHOTO**

Remark: The test setup photo and EUT Photo please see appendix.

## 6 TEST RESULT

### Appendix A: Maximum Conducted Output Power

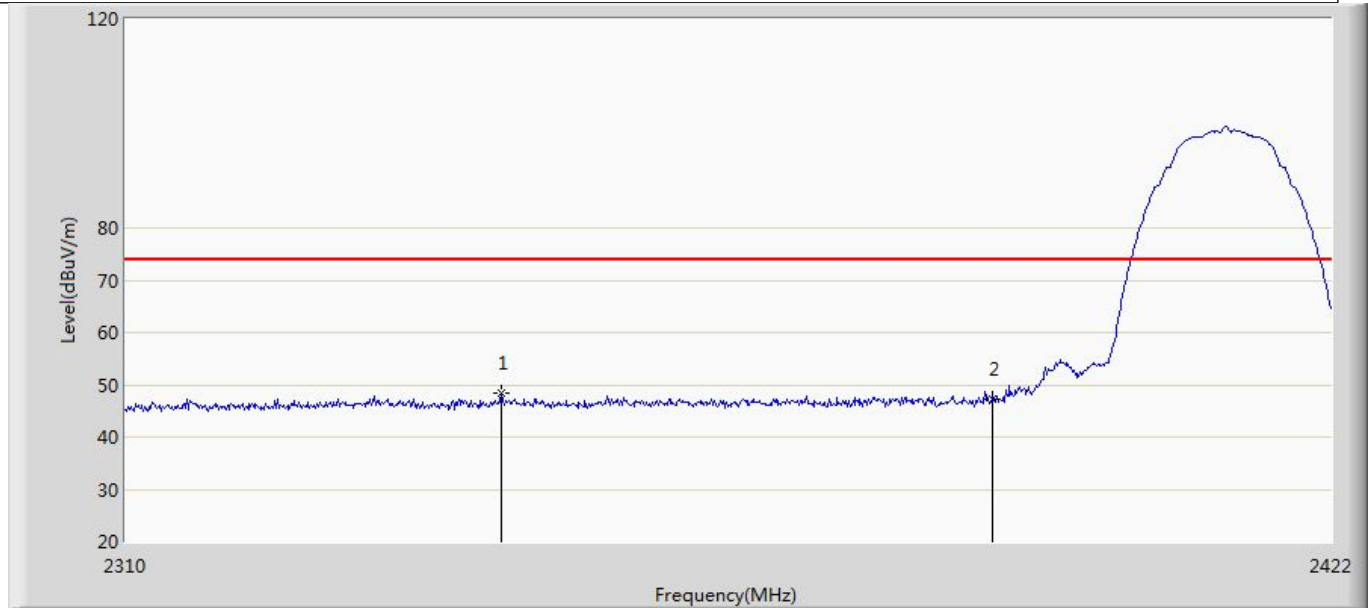
Mode	CH.	Test Freq. (MHz)	Output power (dBm)			Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
			Ant 0	Ant 1	ANT 0+1				
1	1	2412	5.78	5.45	N/A	≤ 29.45	12.33	≤ 36	Pass
	6	2437	6.08	5.72	N/A	≤ 29.45	12.63	≤ 36	Pass
	11	2462	5.84	6.04	N/A	≤ 29.45	12.39	≤ 36	Pass
2	1	2412	6.07	5.94	N/A	≤ 29.45	12.62	≤ 36	Pass
	6	2437	6.11	5.99	N/A	≤ 29.45	12.66	≤ 36	Pass
	11	2462	6.08	6.03	N/A	≤ 29.45	12.63	≤ 36	Pass
3	1	2412	5.39	5.55	8.48	≤ 29.45	15.03	≤ 36	Pass
	6	2437	5.34	5.34	8.35	≤ 29.45	14.90	≤ 36	Pass
	11	2462	5.39	5.43	8.42	≤ 29.45	14.97	≤ 36	Pass
4	3	2422	2.59	2.74	5.68	≤ 29.45	12.23	≤ 36	Pass
	6	2437	2.57	2.82	5.71	≤ 29.45	12.26	≤ 36	Pass
	9	2452	2.61	2.75	5.69	≤ 29.45	12.24	≤ 36	Pass

Note:

1. EIRP = Output power + Directional Gain
2. Please refer to section 1.2 for antenna gain

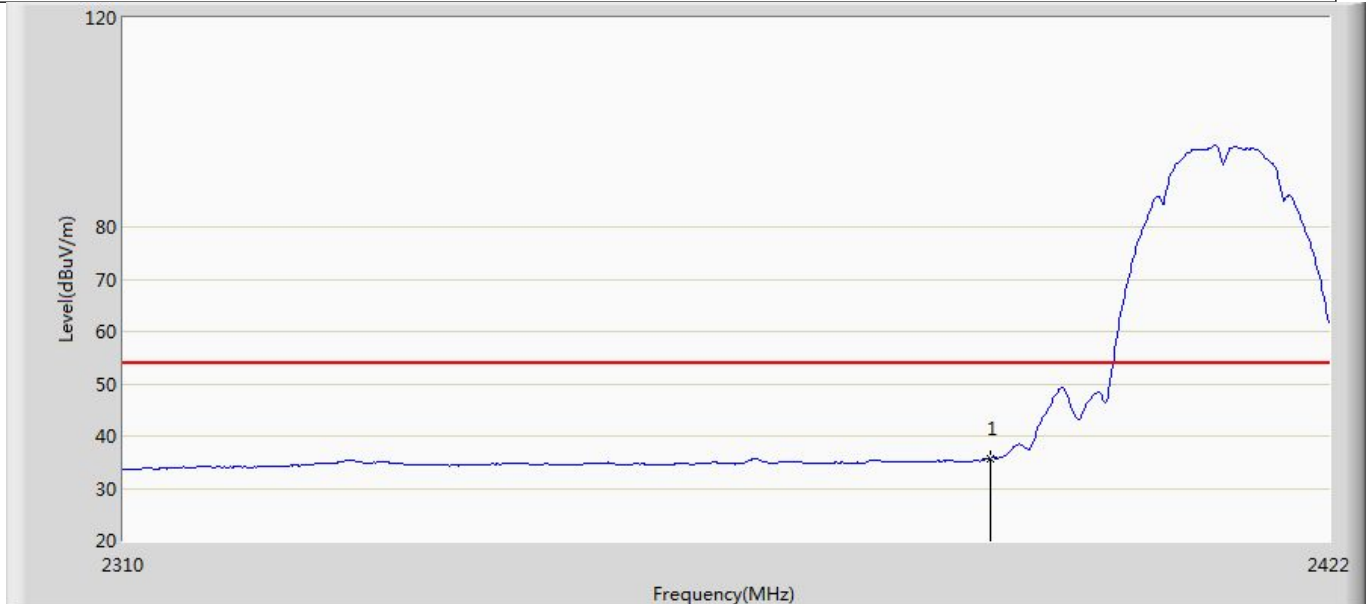
## Appendix B: Band edge measurements

Profile: 23B0641R	Page No.: 1
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 15:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 1: Transmit at 2412MHz by 802.11b with Ant1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2344.384	48.544	14.657	-25.456	74.000	33.887	PK
2		2390.000	47.162	13.011	-26.838	74.000	34.151	PK

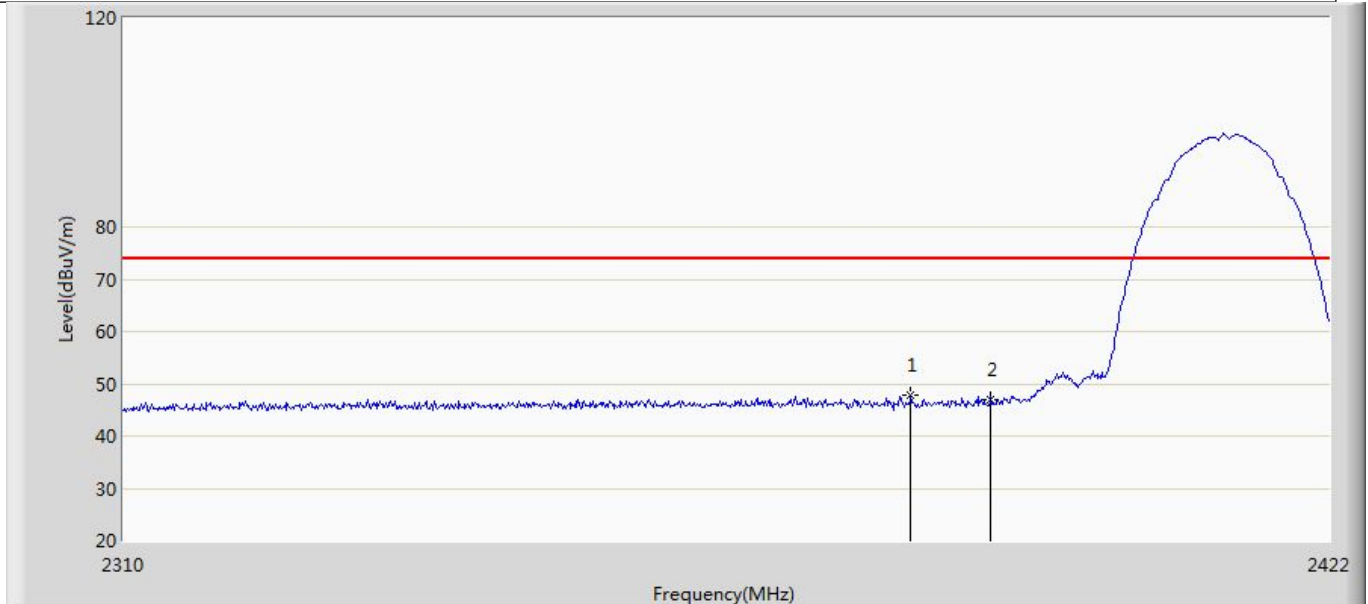
Profile: 23B0641R	Page No.: 2
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 15:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 1:Transmit at 2412MHz by 802.11b with Ant1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	35.720	1.569	-18.280	54.000	34.151	AV

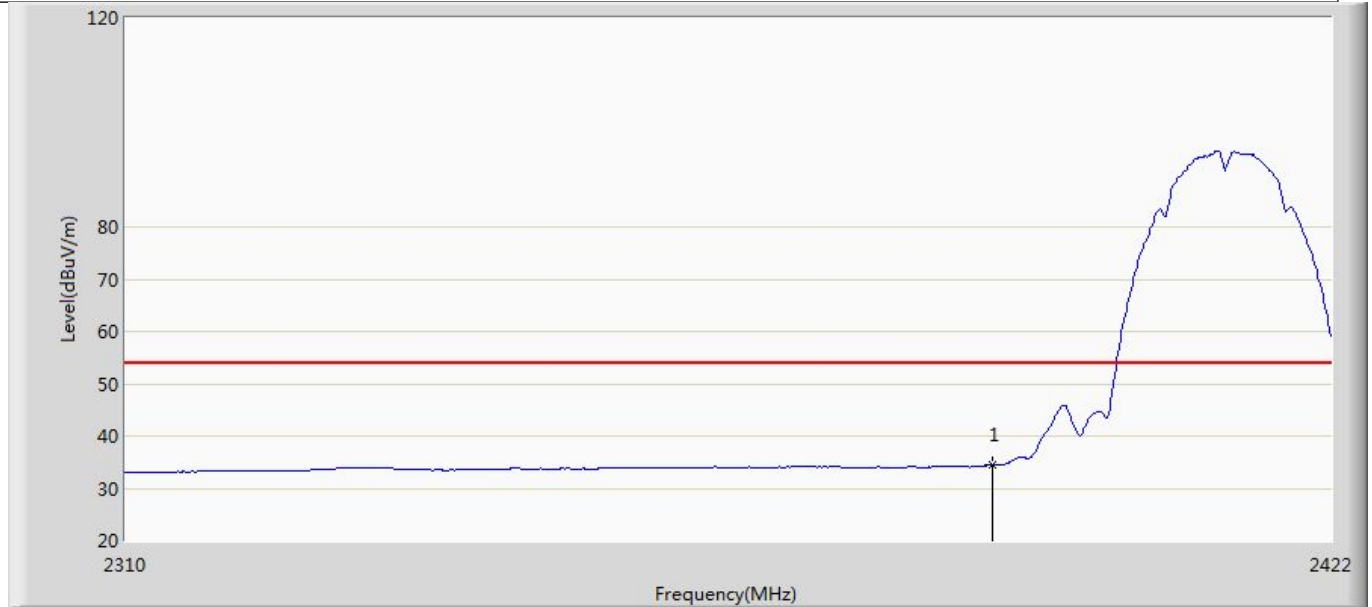


Profile: 23B0641R	Page No.: 3
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 15:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 1:Transmit at 2412MHz by 802.11b with Ant1	



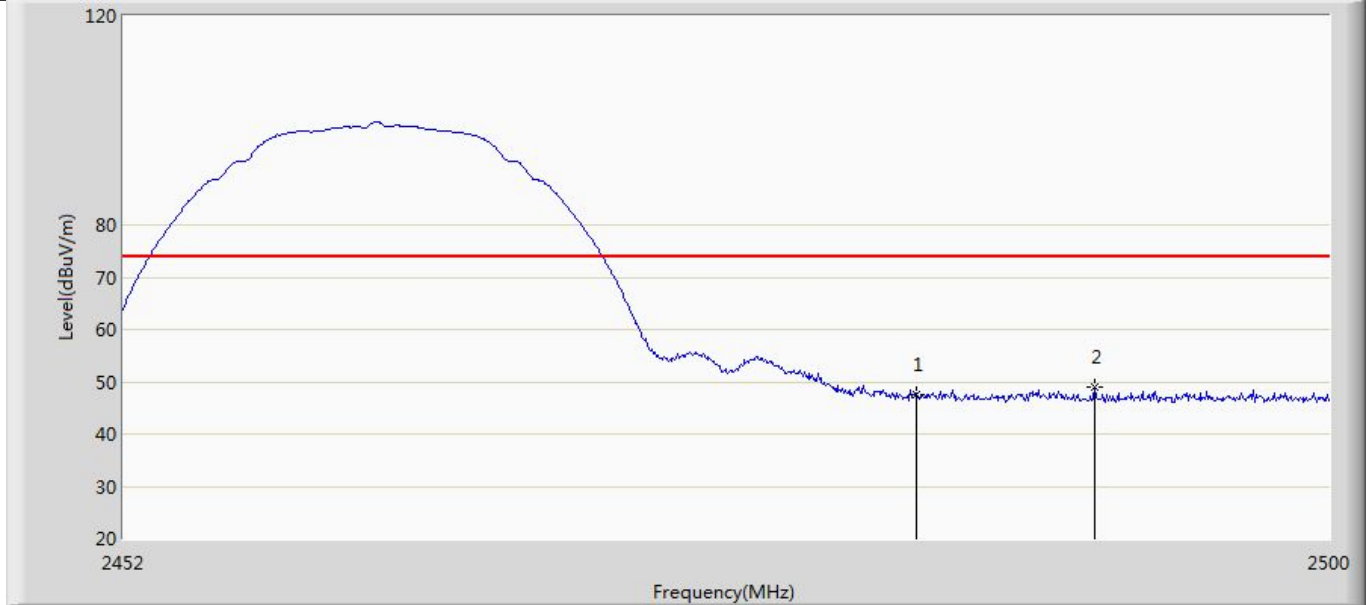
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2382.576	47.685	13.566	-26.315	74.000	34.119	PK
2		2390.000	46.881	12.730	-27.119	74.000	34.151	PK

Profile: 23B0641R	Page No.: 4
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 15:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 1:Transmit at 2412MHz by 802.11b with Ant1	



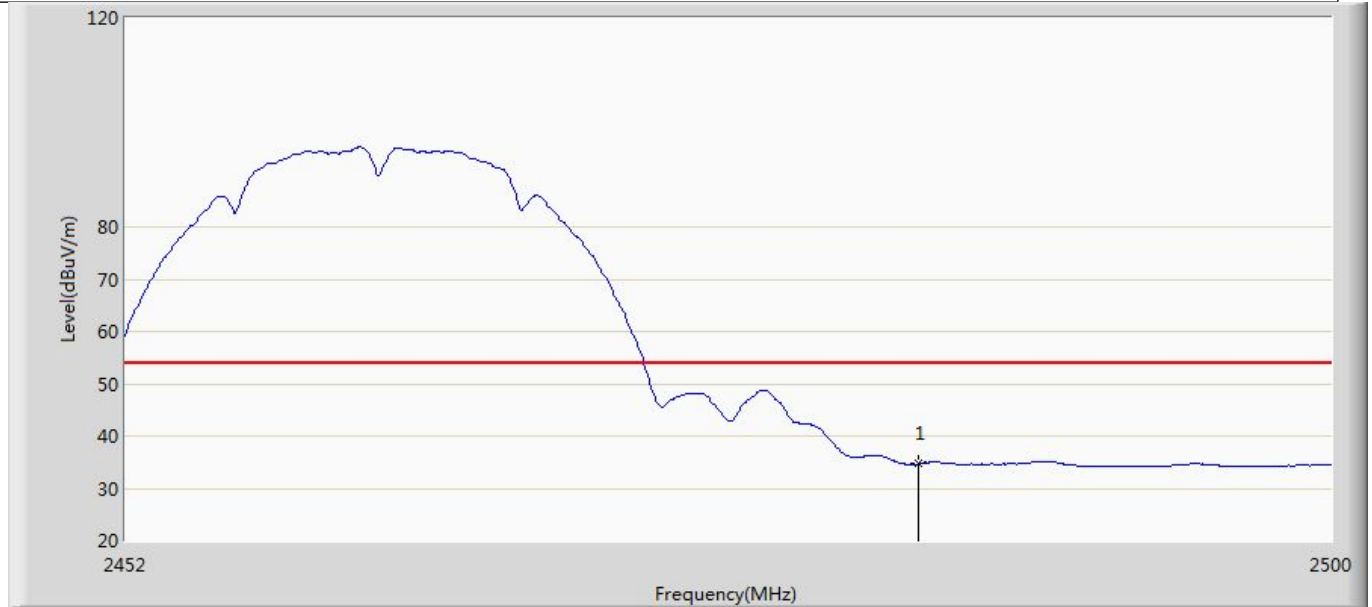
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	34.458	0.307	-19.542	54.000	34.151	AV

Profile: 23B0641R	Page No.: 5
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 15:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 1:Transmit at 2462MHz by 802.11b with Ant1	



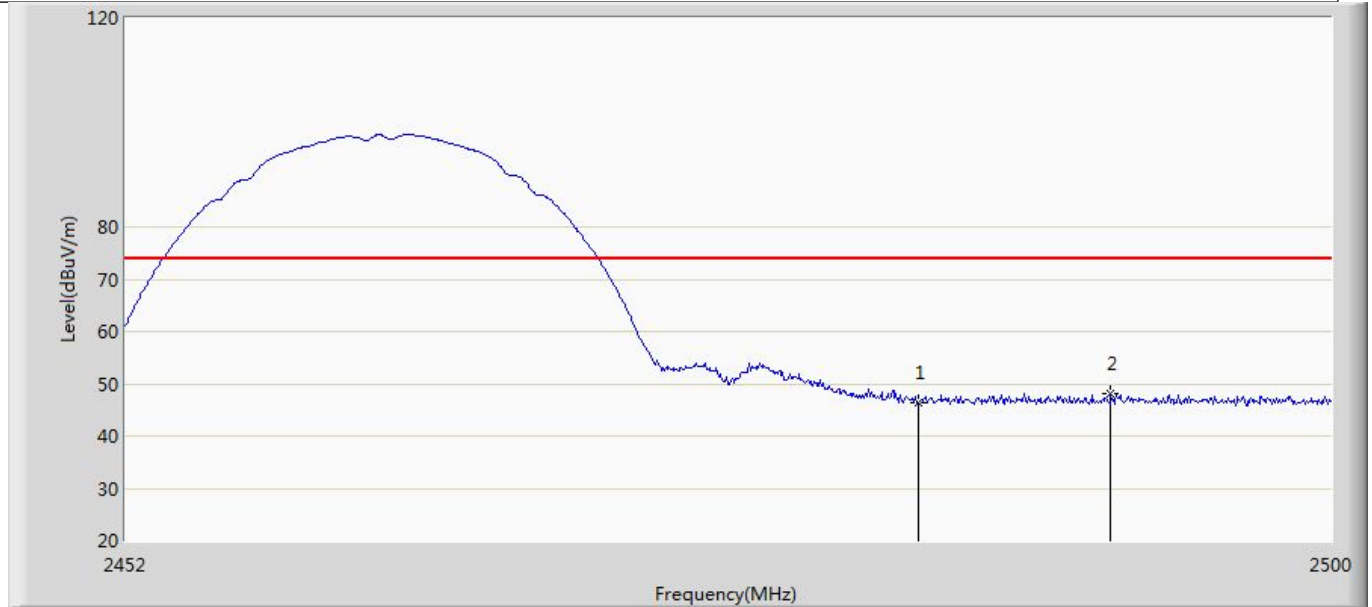
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	47.545	13.089	-26.455	74.000	34.456	PK
2	*	2490.592	49.088	14.554	-24.912	74.000	34.534	PK

Profile: 23B0641R	Page No.: 6
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 15:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 1:Transmit at 2462MHz by 802.11b with Ant1	



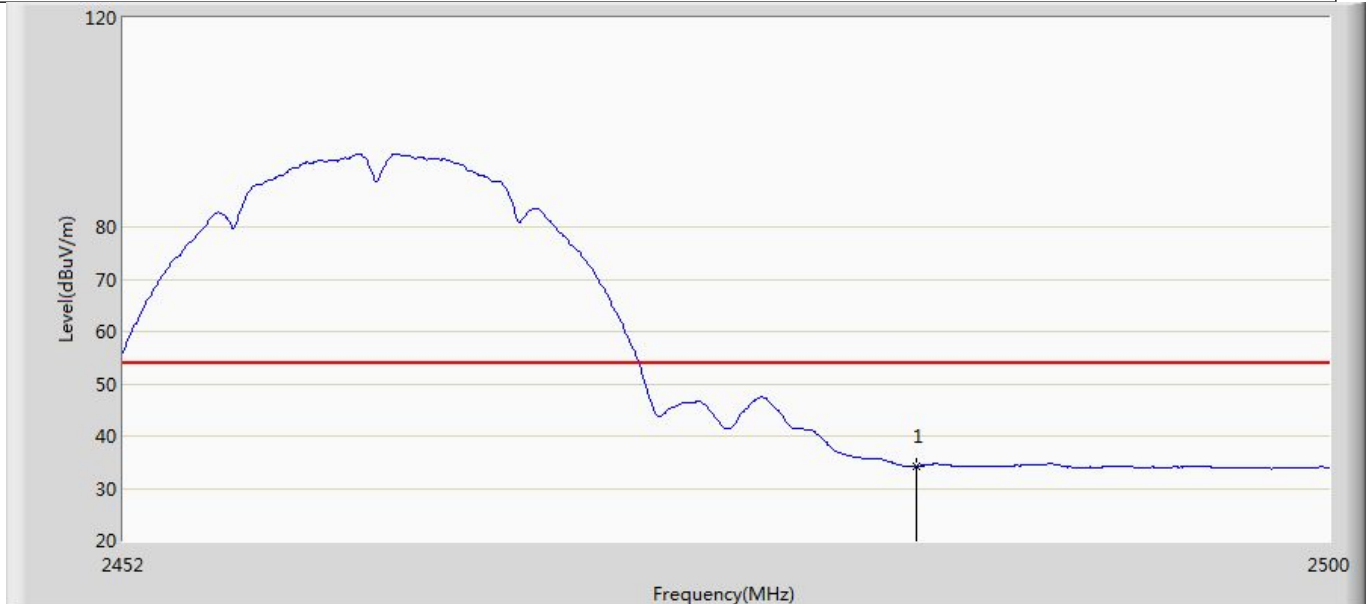
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	34.645	0.189	-19.355	54.000	34.456	AV

Profile: 23B0641R	Page No.: 7
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 15:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 1:Transmit at 2462MHz by 802.11b with Ant1	



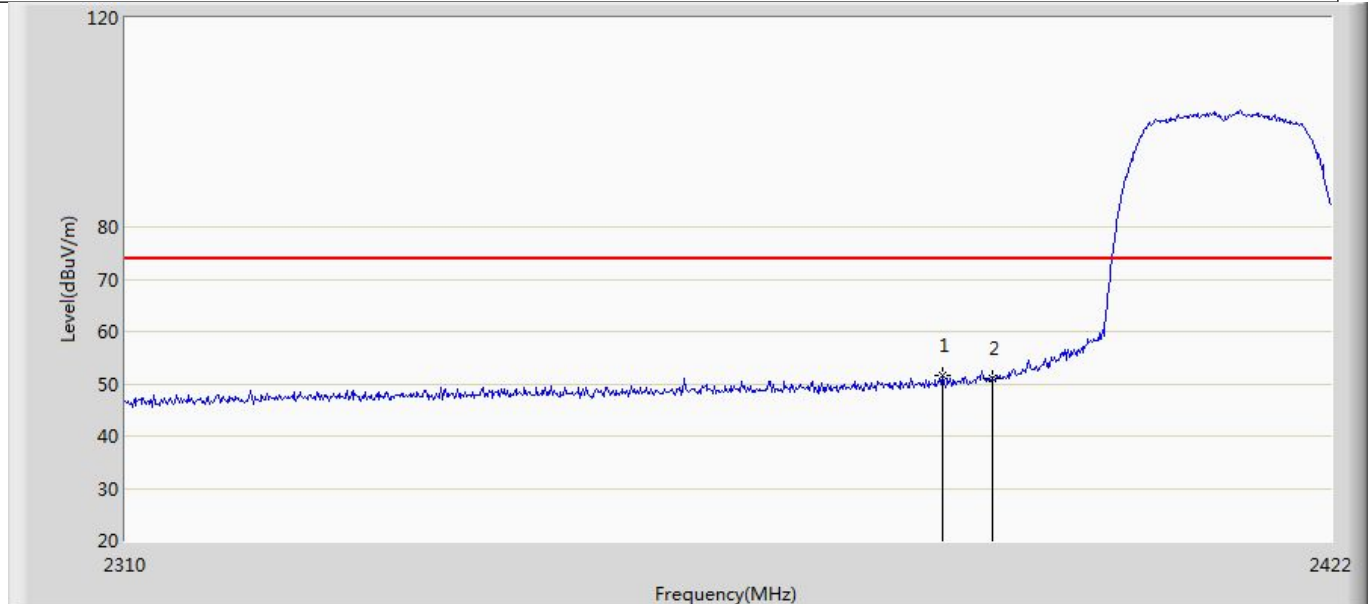
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	46.329	11.873	-27.671	74.000	34.456	PK
2	*	2491.168	48.256	13.715	-25.744	74.000	34.541	PK

Profile: 23B0641R	Page No.: 8
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 15:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 1:Transmit at 2462MHz by 802.11b with Ant1	



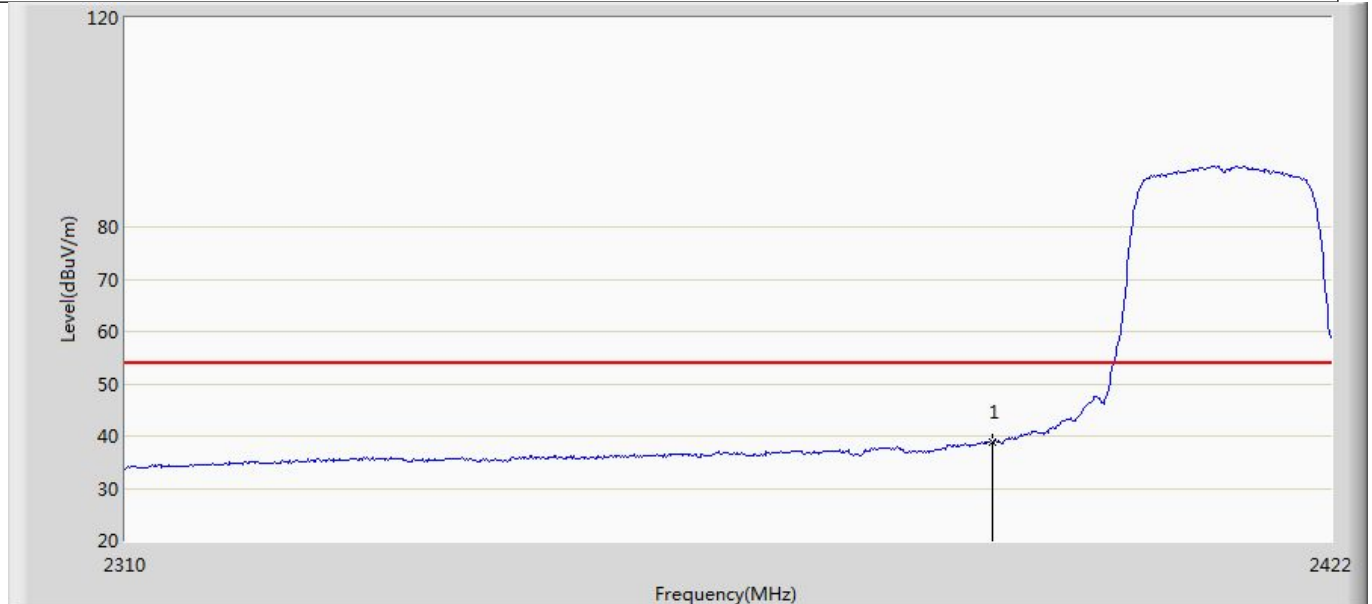
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	34.247	-0.209	-19.753	54.000	34.456	AV

Profile: 23B0641R	Page No.: 9
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 15:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 2:Transmit at 2412MHz by 802.11g with Ant1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2385.376	51.680	17.549	-22.320	74.000	34.131	PK
2		2390.000	51.023	16.872	-22.977	74.000	34.151	PK

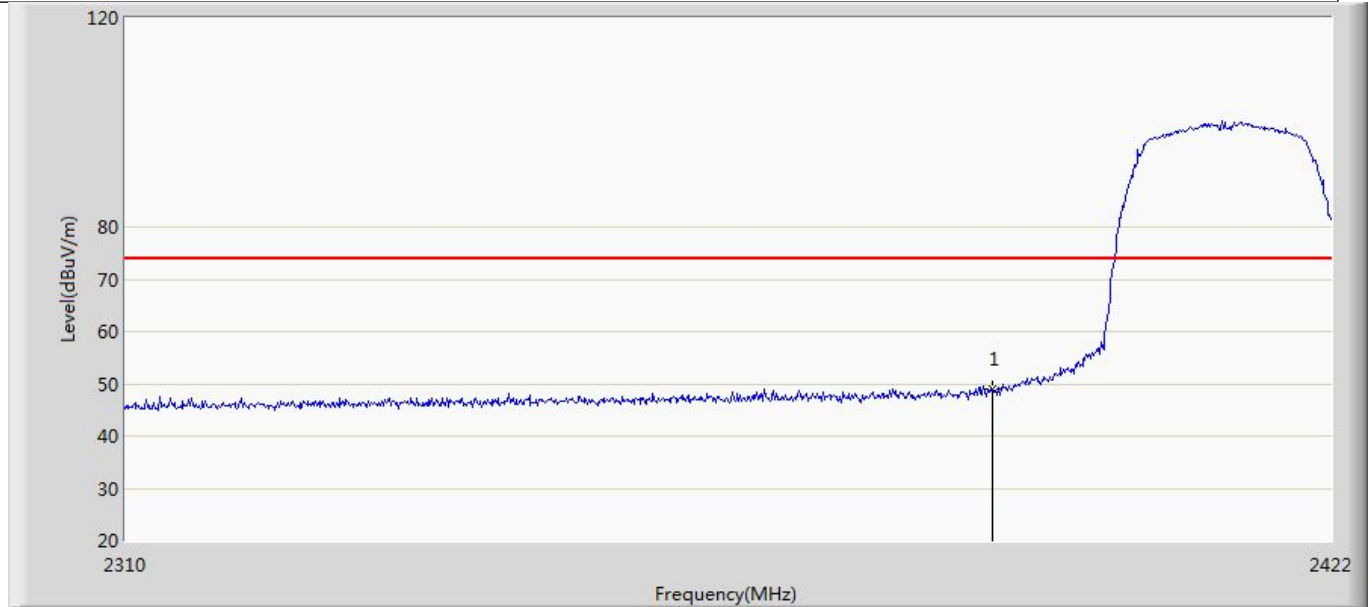
Profile: 23B0641R	Page No.: 10
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 15:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 2:Transmit at 2412MHz by 802.11g with Ant1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	38.910	4.759	-15.090	54.000	34.151	AV

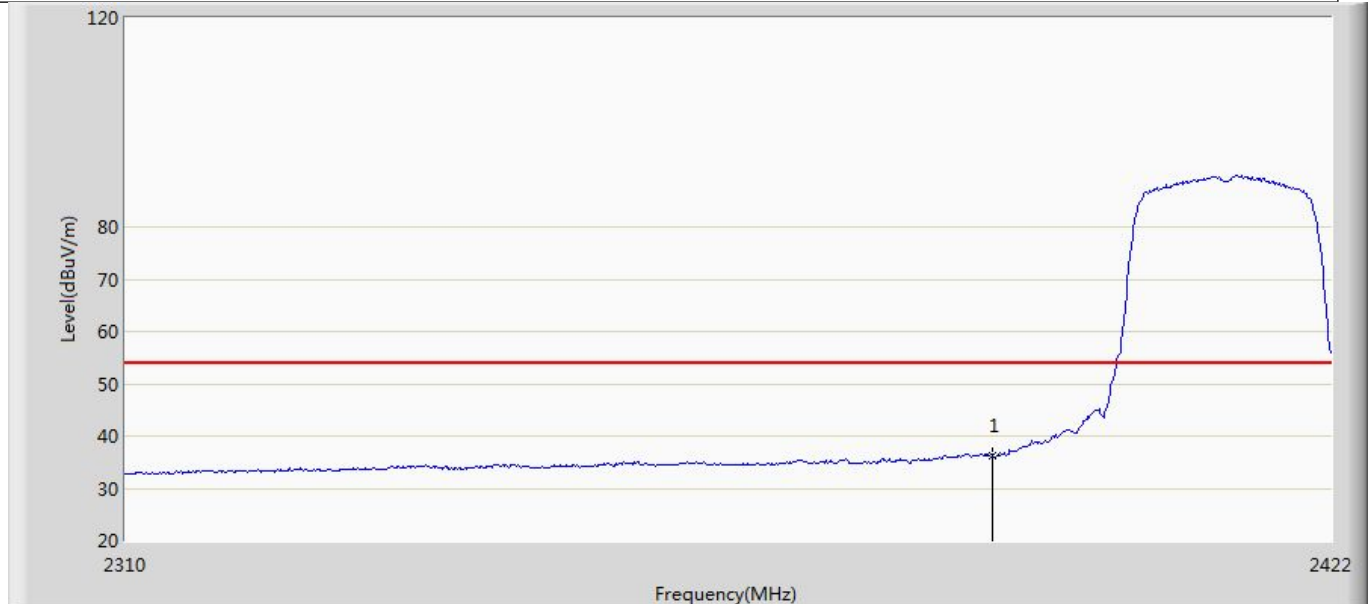


Profile: 23B0641R	Page No.: 11
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 16:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 2:Transmit at 2412MHz by 802.11g with Ant1	



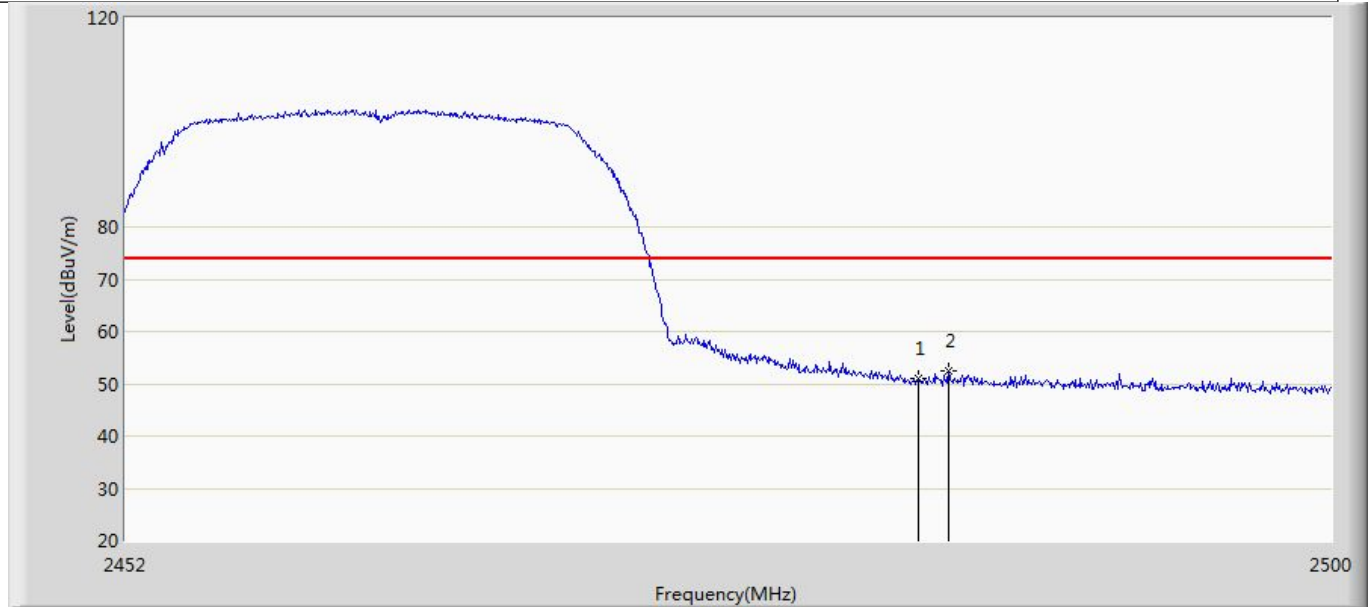
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	48.869	14.718	-25.131	74.000	34.151	PK

Profile: 23B0641R	Page No.: 12
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 16:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 2:Transmit at 2412MHz by 802.11g with Ant1	



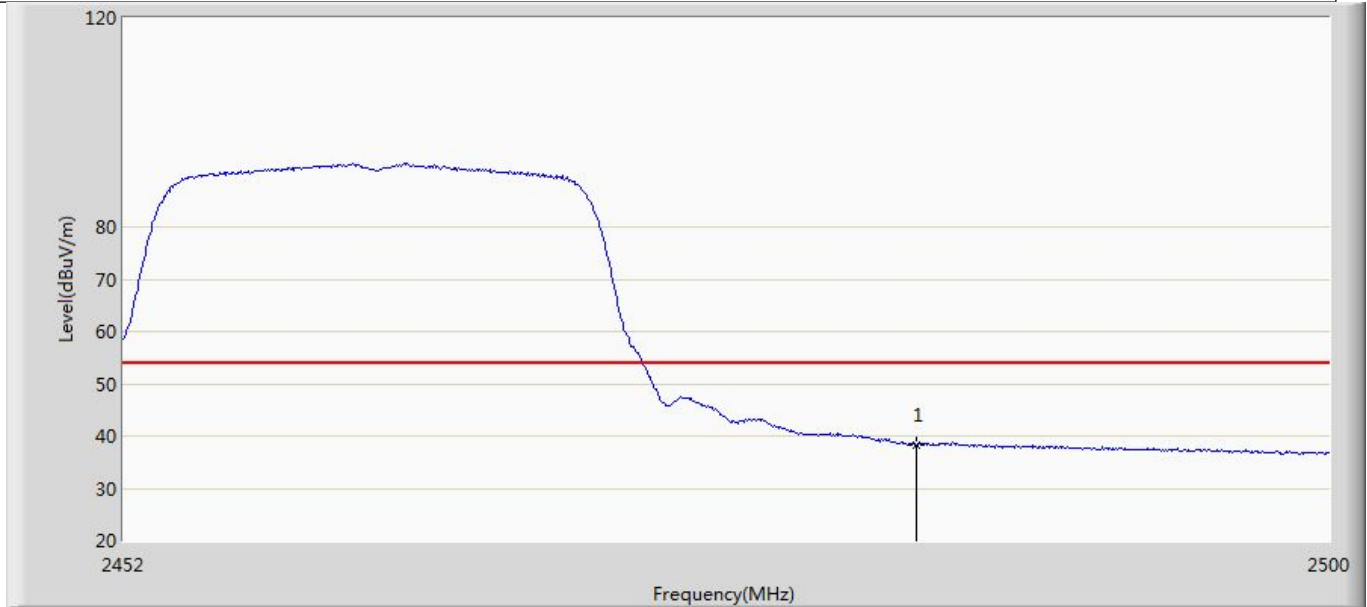
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	36.338	2.187	-17.662	54.000	34.151	AV

Profile: 23B0641R	Page No.: 13
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 16:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 2:Transmit at 2462MHz by 802.11g with Ant1	



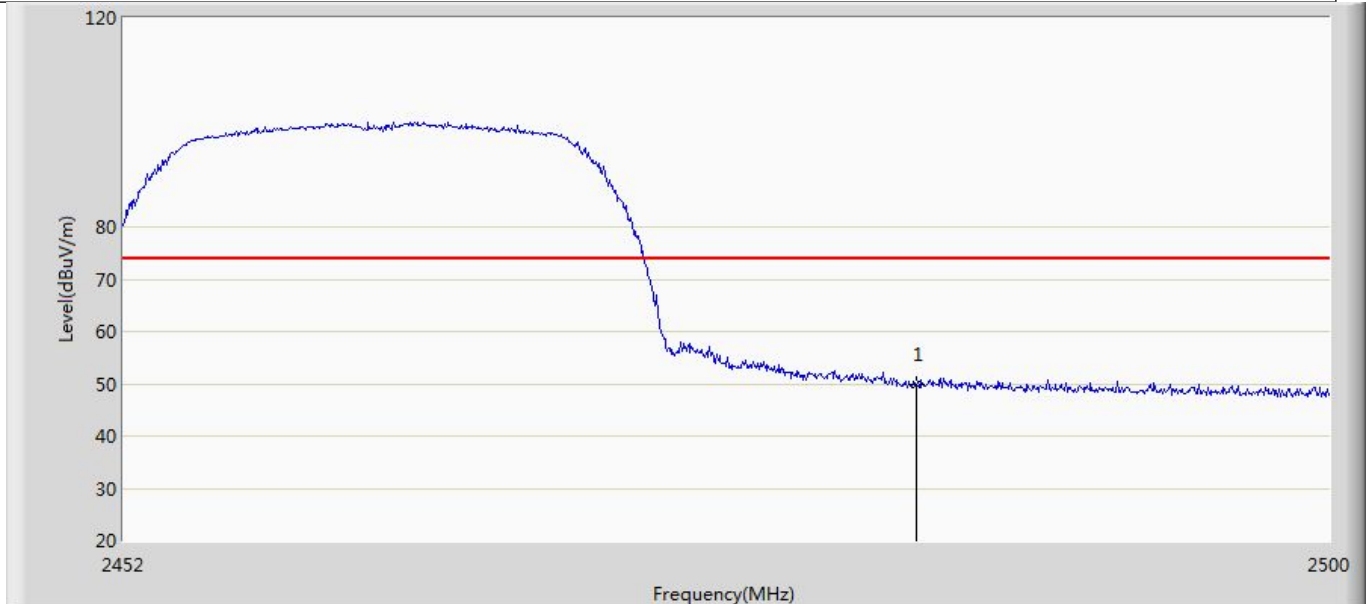
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	50.941	16.485	-23.059	74.000	34.456	PK
2	*	2484.688	52.479	18.010	-21.521	74.000	34.469	PK

Profile: 23B0641R	Page No.: 14
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 16:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 2:Transmit at 2462MHz by 802.11g with Ant1	



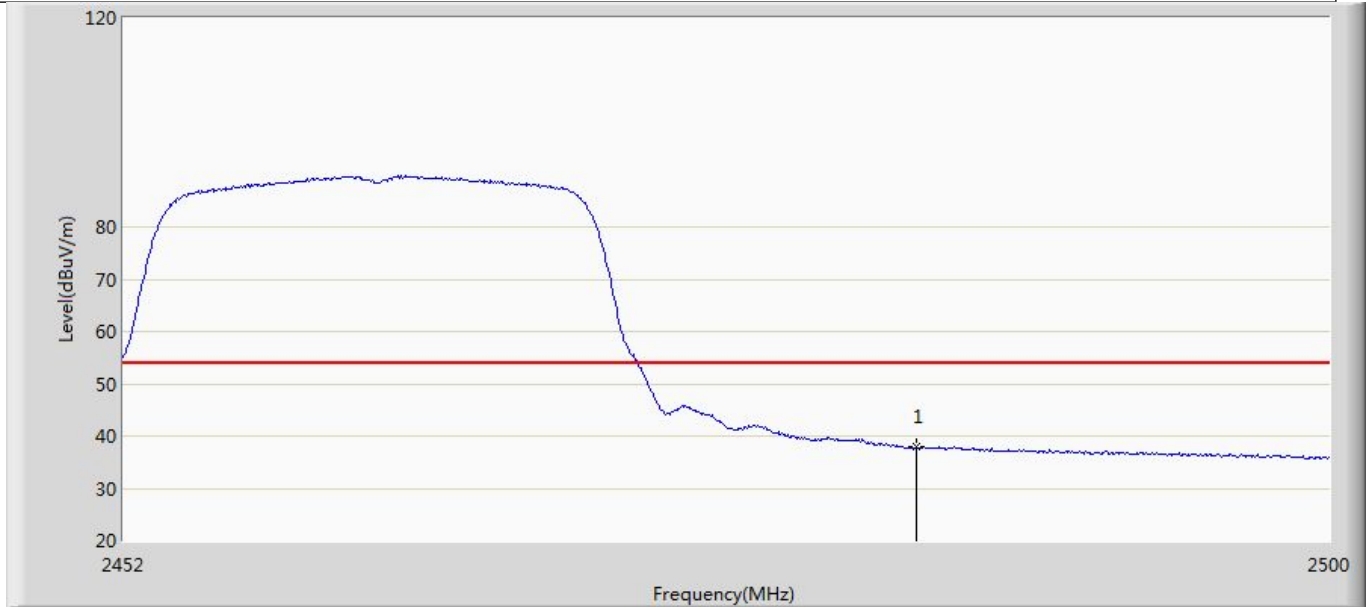
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	38.257	3.801	-15.743	54.000	34.456	AV

Profile: 23B0641R	Page No.: 15
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 16:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 2:Transmit at 2462MHz by 802.11g with Ant1	



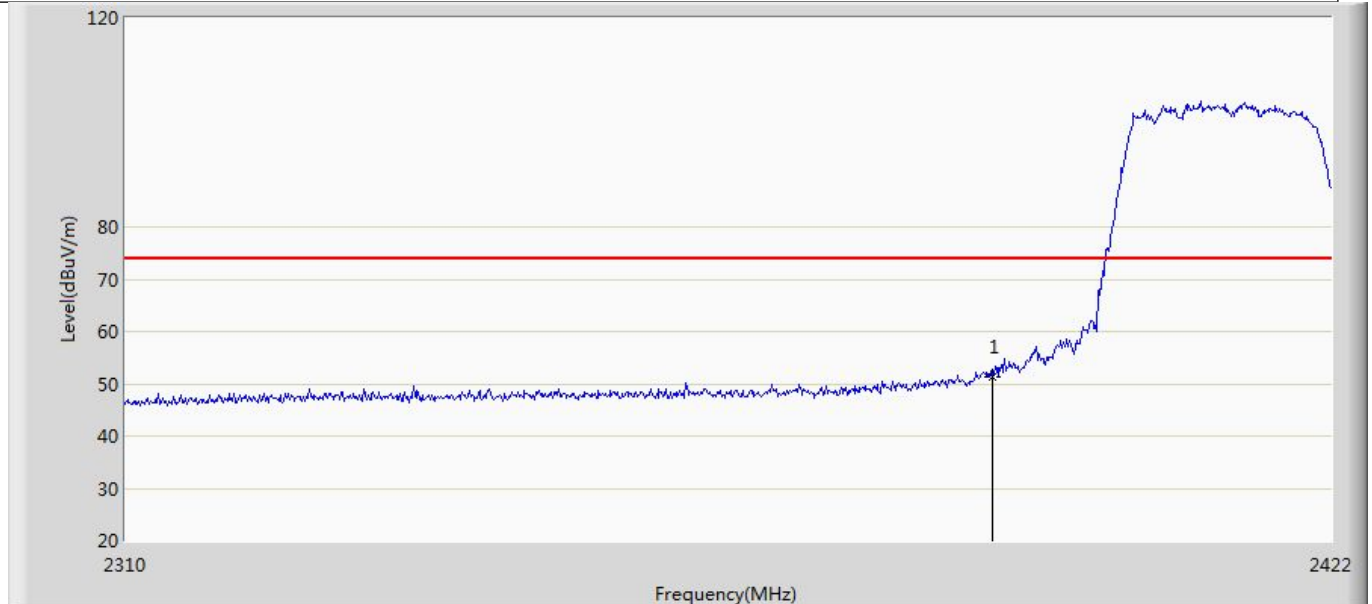
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	49.854	15.398	-24.146	74.000	34.456	PK

Profile: 23B0641R	Page No.: 16
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 16:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 2:Transmit at 2462MHz by 802.11g with Ant1	



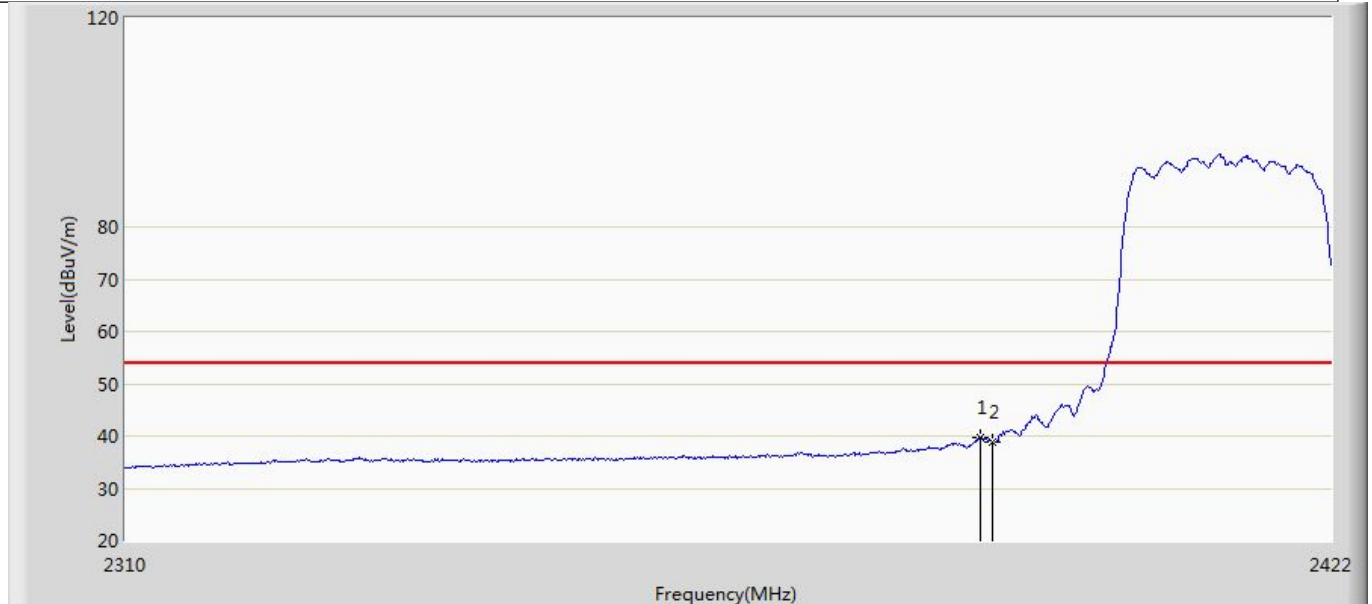
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	37.877	3.421	-16.123	54.000	34.456	AV

Profile: 23B0641R	Page No.: 17
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 16:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3:Transmit at 2412MHz by 802.11n(20MHz) with Ant0+Ant1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	51.401	17.250	-22.599	74.000	34.151	PK

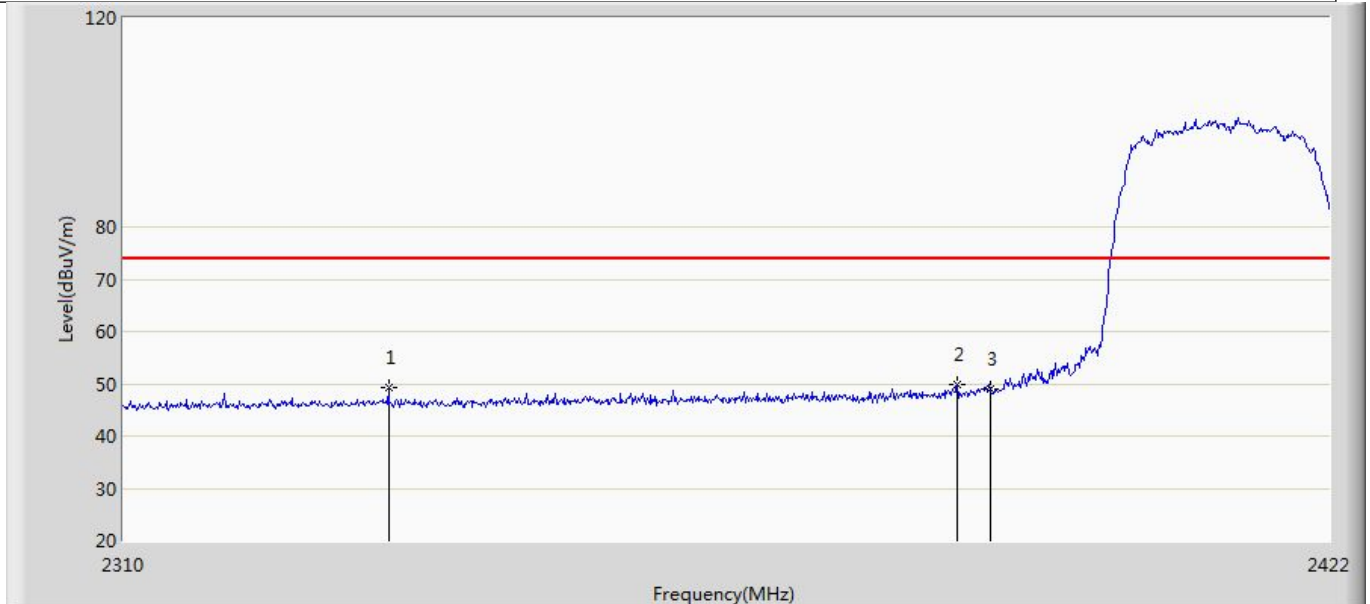
Profile: 23B0641R	Page No.: 18
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 16:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3:Transmit at 2412MHz by 802.11n(20MHz) with Ant0+Ant1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2388.848	39.818	5.672	-14.182	54.000	34.146	AV
2		2390.000	38.821	4.670	-15.179	54.000	34.151	AV

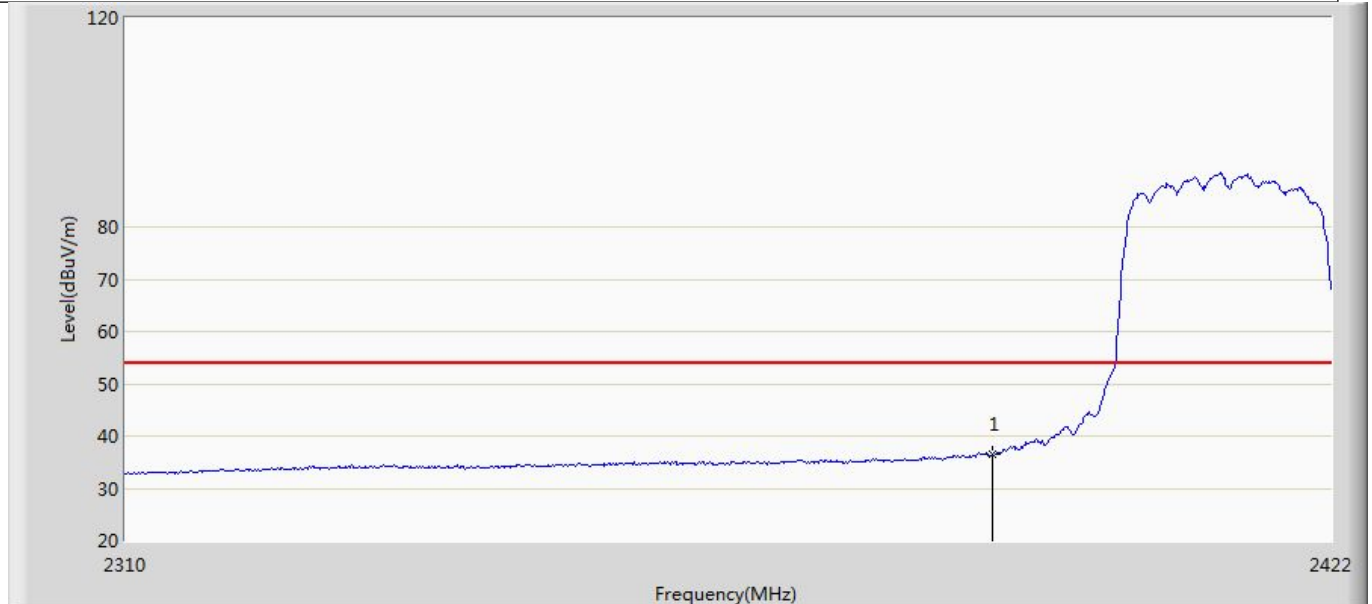


Profile: 23B0641R	Page No.: 19
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 16:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3:Transmit at 2412MHz by 802.11n(20MHz) with Ant0+Ant1	



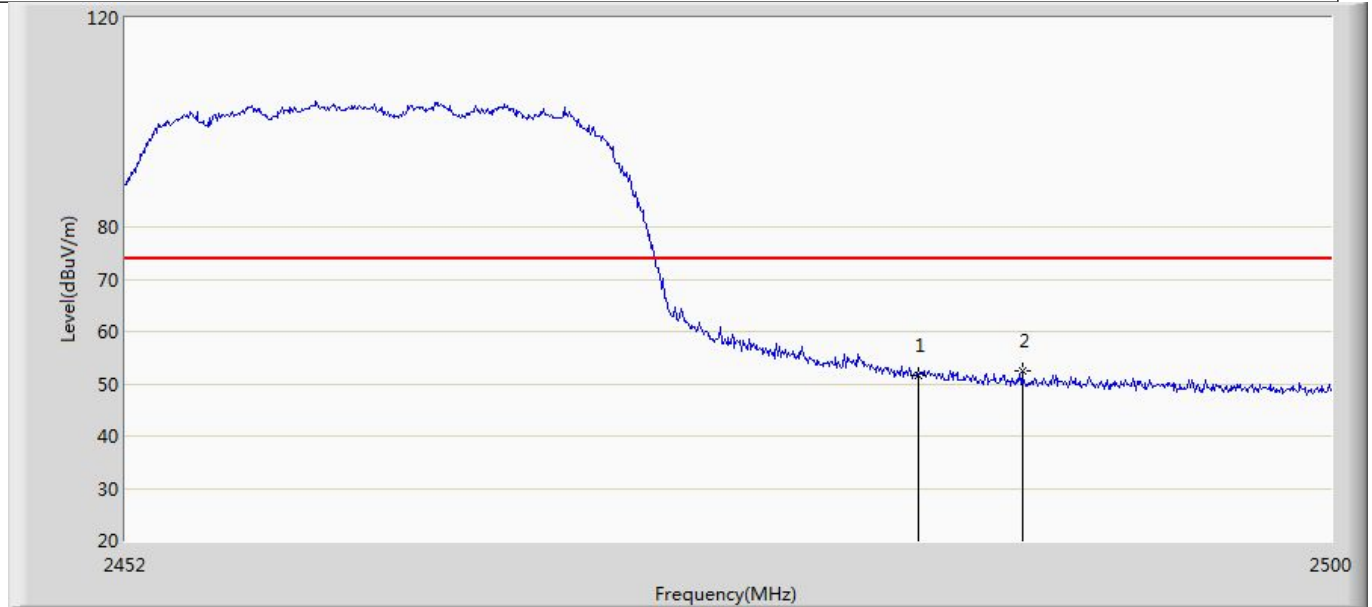
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2334.192	49.372	15.520	-24.628	74.000	33.851	PK
2	*	2386.944	49.887	15.749	-24.113	74.000	34.138	PK
3		2390.000	49.017	14.866	-24.983	74.000	34.151	PK

Profile: 23B0641R	Page No.: 20
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 16:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3:Transmit at 2412MHz by 802.11n(20MHz) with Ant0+Ant1	



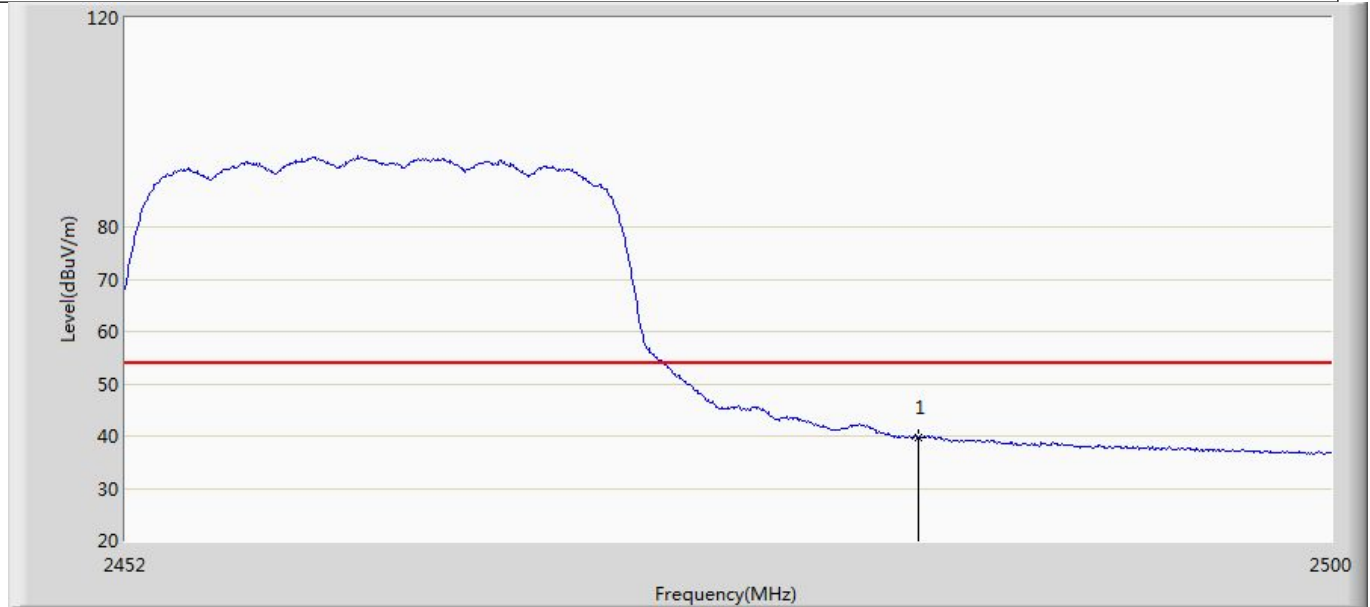
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	36.446	2.295	-17.554	54.000	34.151	AV

Profile: 23B0641R	Page No.: 21
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 16:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3:Transmit at 2462MHz by 802.11n(20MHz) with Ant0+Ant1	



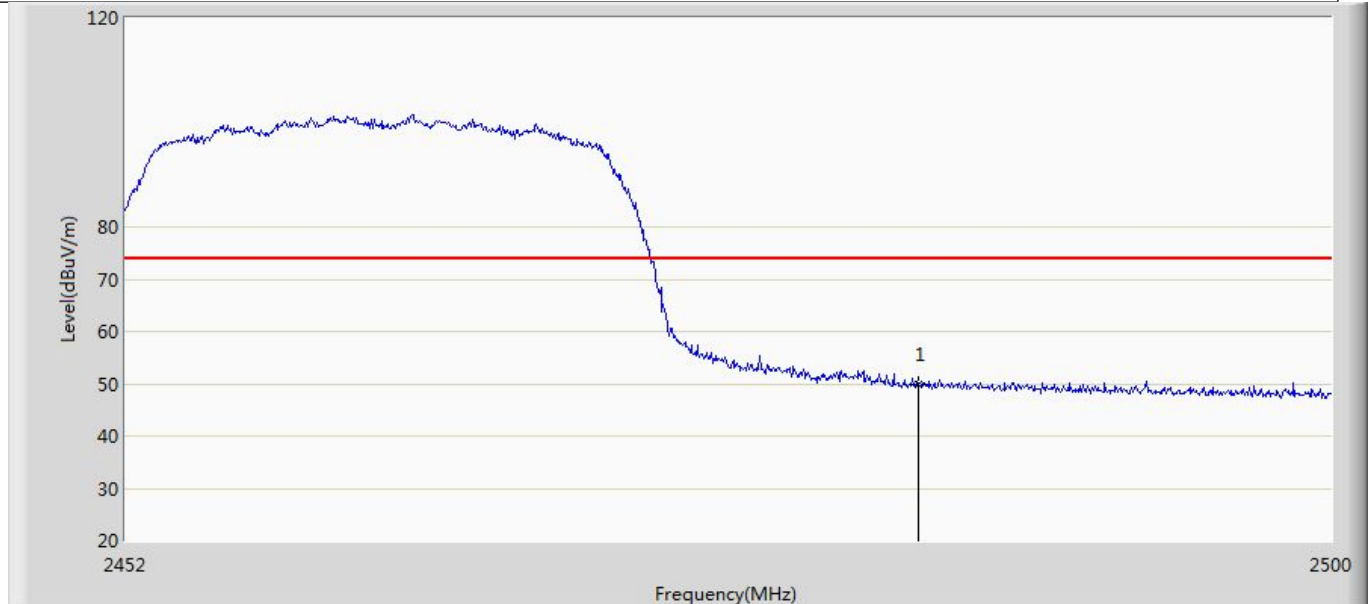
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	51.682	17.226	-22.318	74.000	34.456	PK
2	*	2487.616	52.605	18.104	-21.395	74.000	34.501	PK

Profile: 23B0641R	Page No.: 22
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 16:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3:Transmit at 2462MHz by 802.11n(20MHz) with Ant0+Ant1	



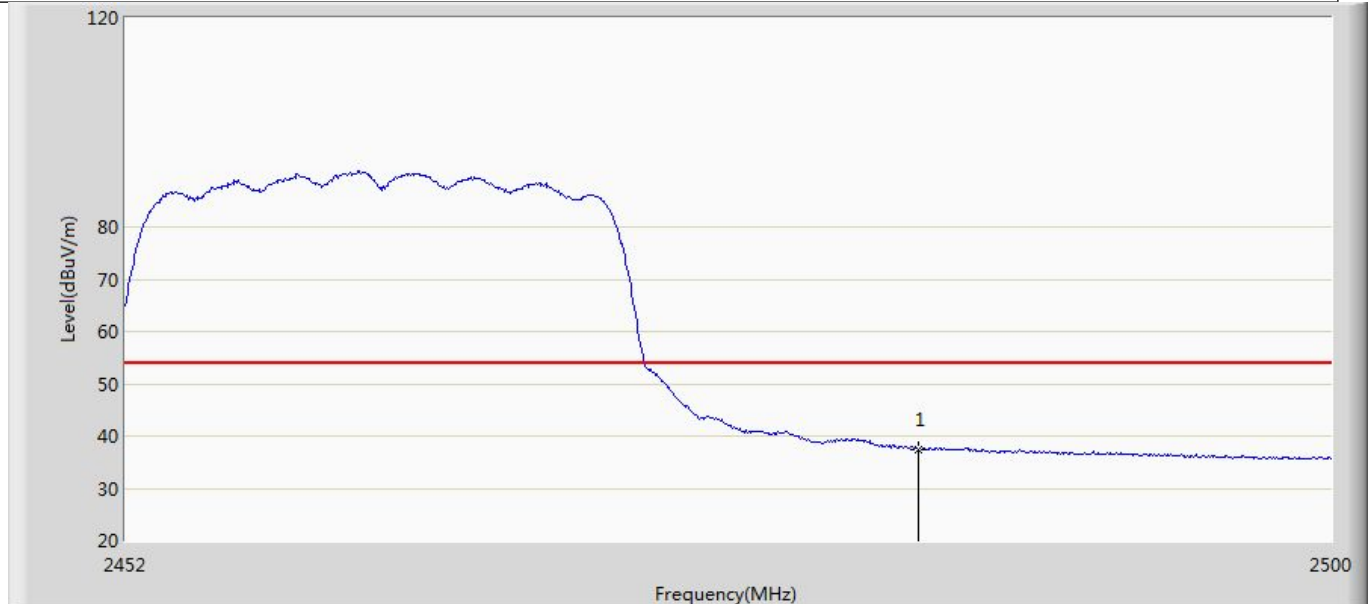
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	39.758	5.302	-14.242	54.000	34.456	AV

Profile: 23B0641R	Page No.: 23
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 16:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3:Transmit at 2462MHz by 802.11n(20MHz) with Ant0+Ant1	



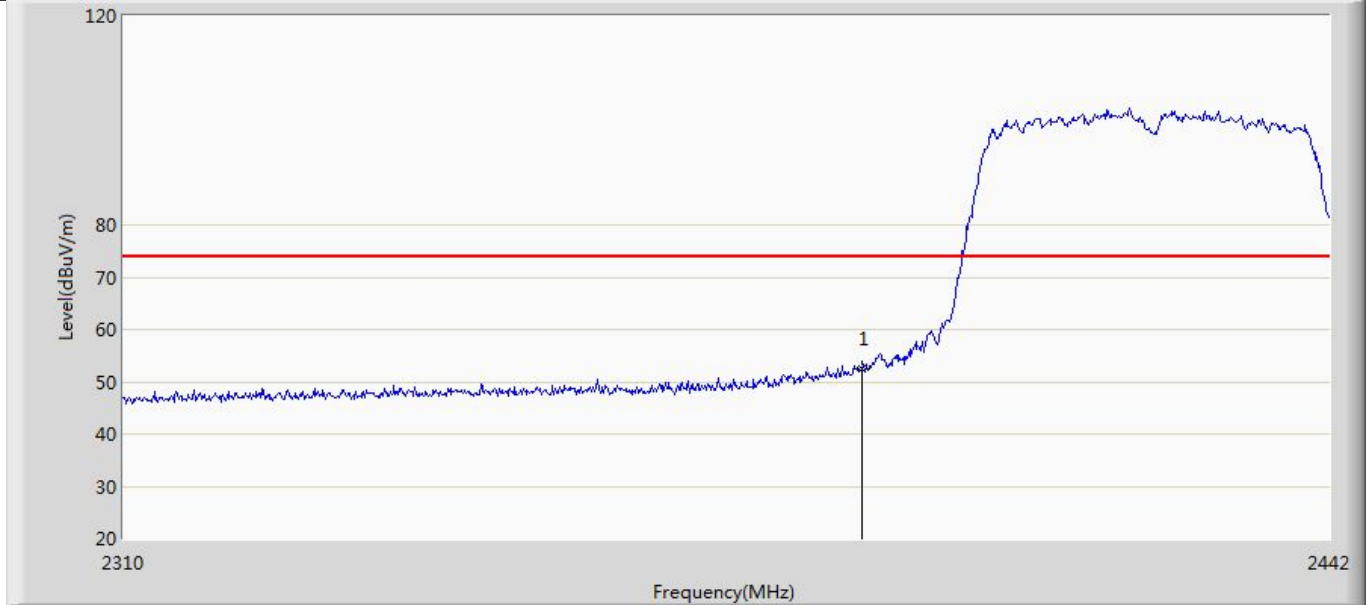
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	49.973	15.517	-24.027	74.000	34.456	PK

Profile: 23B0641R	Page No.: 24
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 16:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3:Transmit at 2462MHz by 802.11n(20MHz) with Ant0+Ant1	



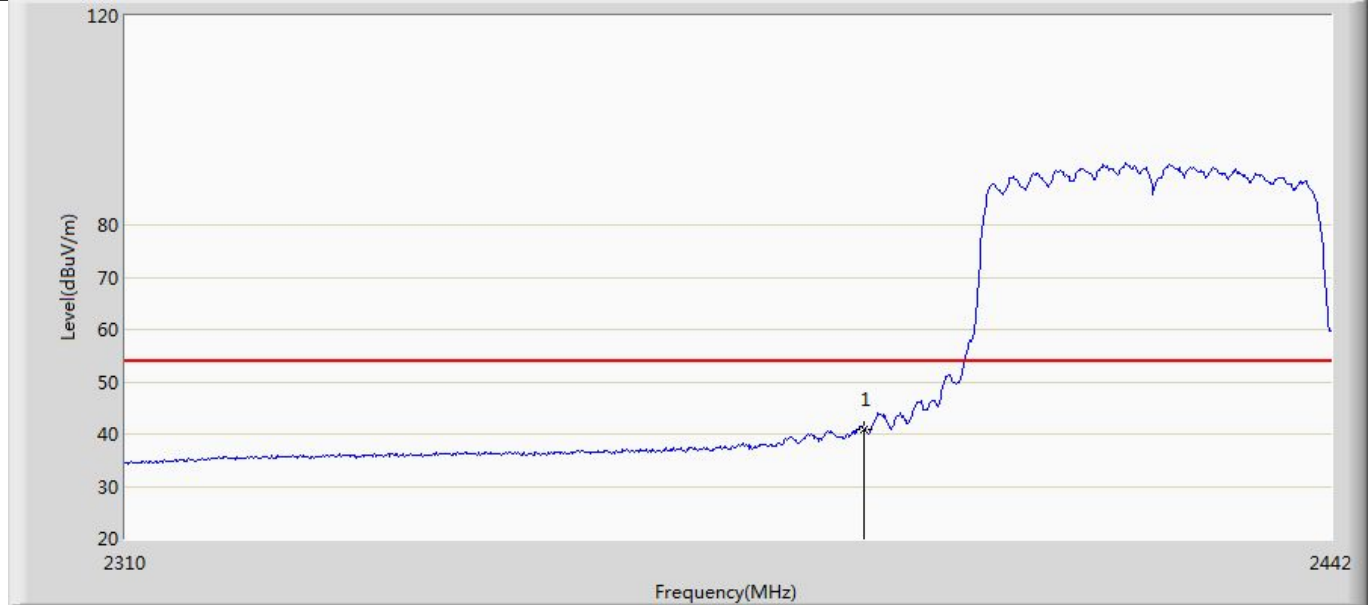
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	37.528	3.072	-16.472	54.000	34.456	AV

Profile: 23B0641R	Page No.: 25
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 17:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3:Transmit at 2422MHz by 802.11n(40MHz) with Ant0+Ant1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	52.552	18.401	-21.448	74.000	34.151	PK

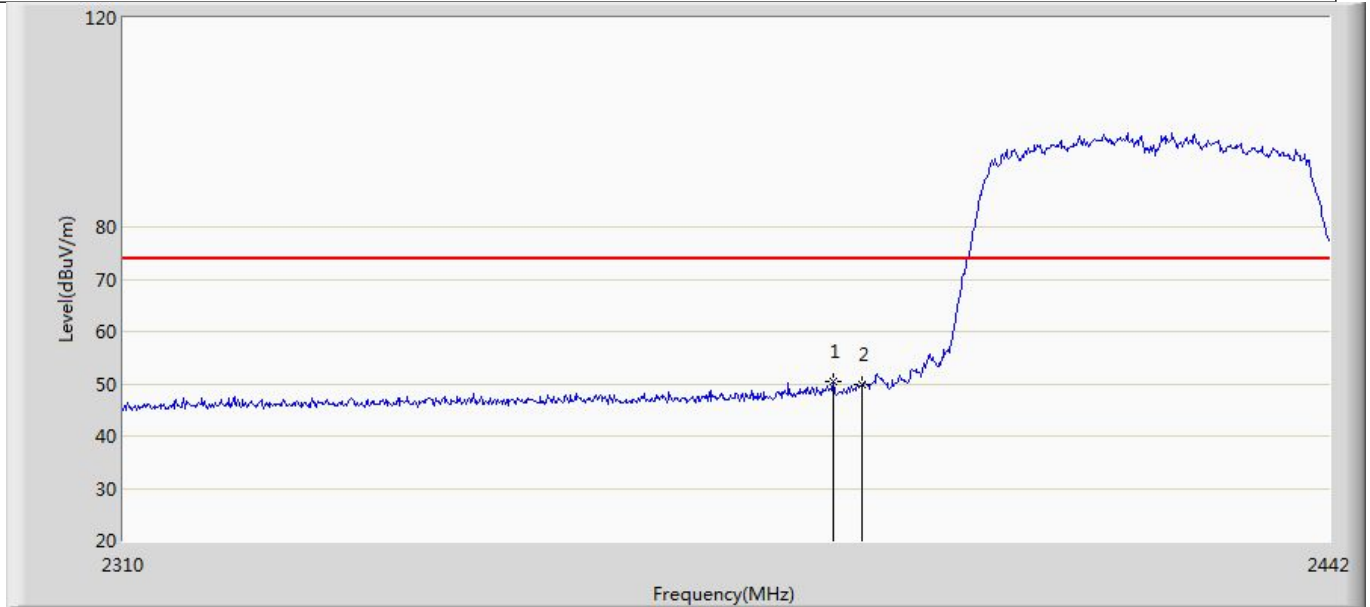
Profile: 23B0641R	Page No.: 26
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 17:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3:Transmit at 2422MHz by 802.11n(40MHz) with Ant0+Ant1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	40.927	6.776	-13.073	54.000	34.151	AV

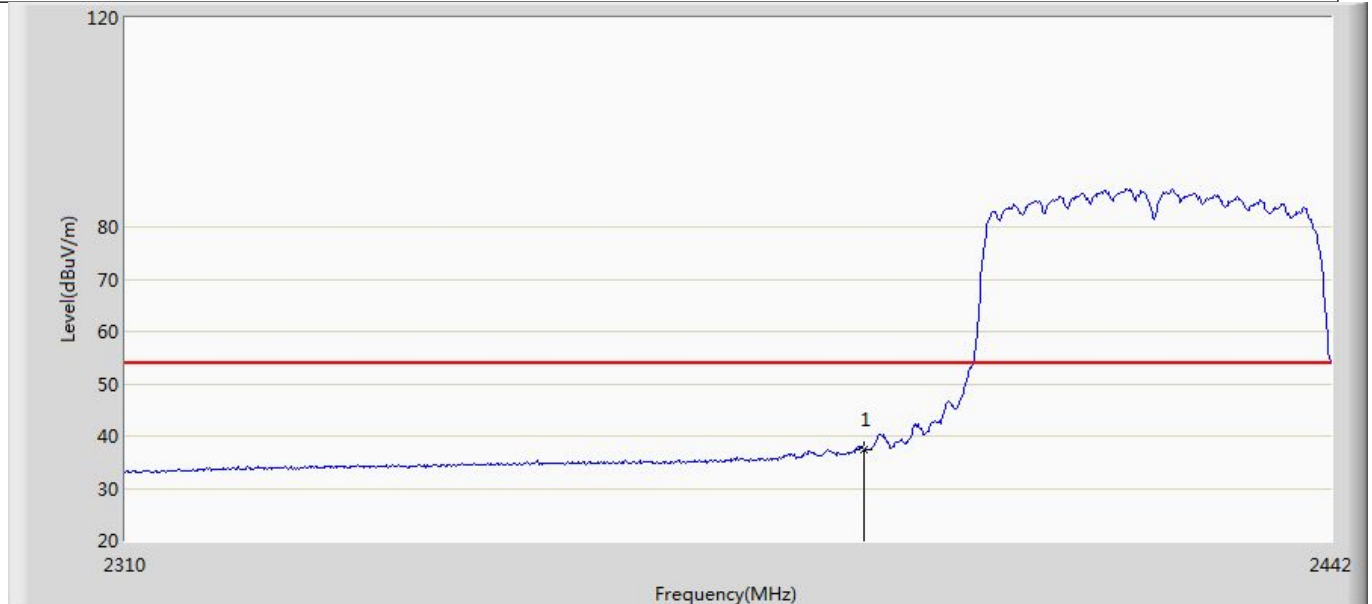


Profile: 23B0641R	Page No.: 27
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 17:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3:Transmit at 2422MHz by 802.11n(40MHz) with Ant0+Ant1	



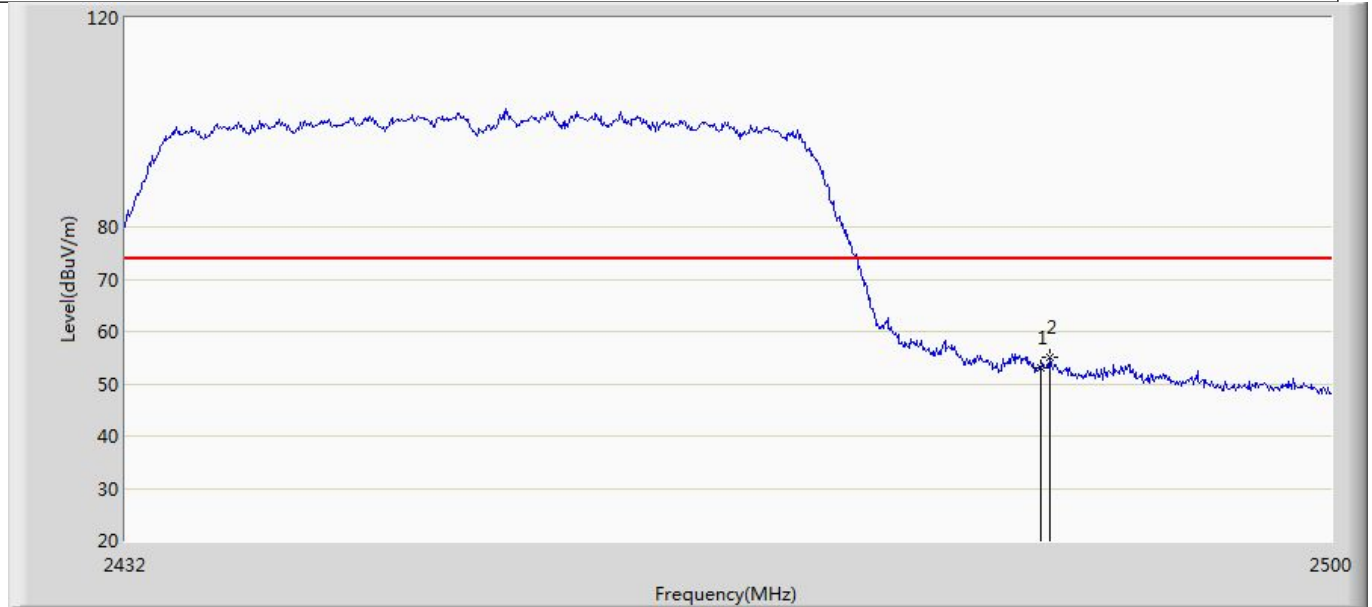
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2386.824	50.547	16.410	-23.453	74.000	34.137	PK
2		2390.000	49.747	15.596	-24.253	74.000	34.151	PK

Profile: 23B0641R	Page No.: 28
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 17:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3:Transmit at 2422MHz by 802.11n(40MHz) with Ant0+Ant1	



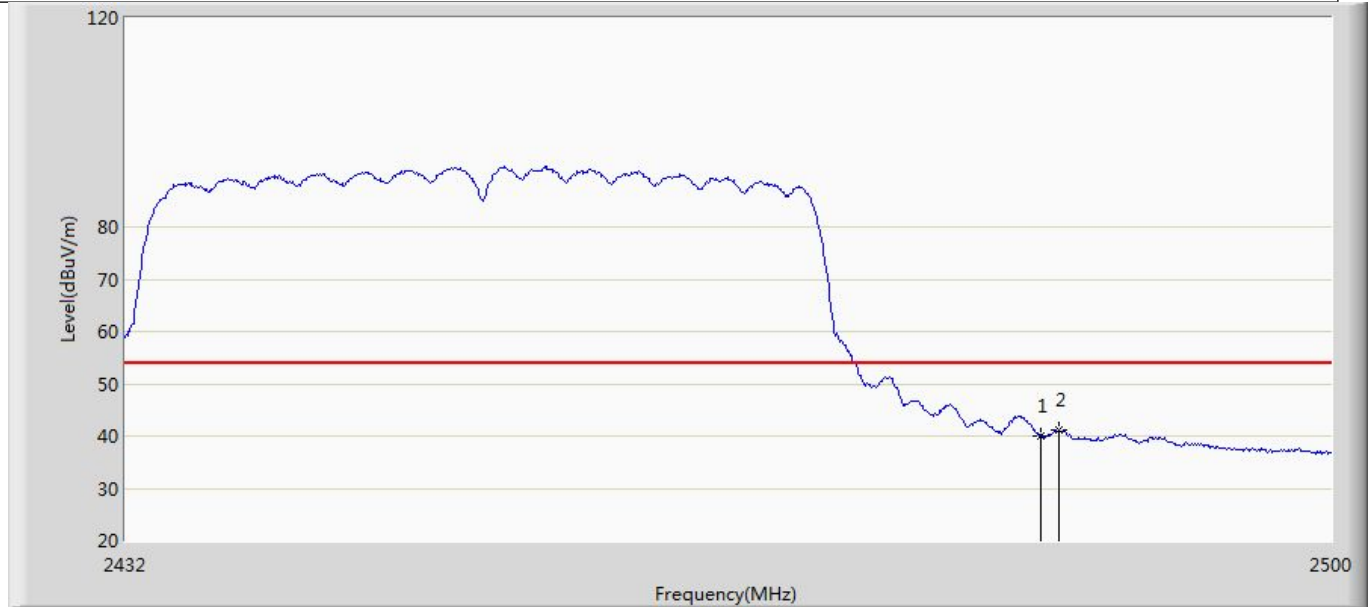
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	37.435	3.284	-16.565	54.000	34.151	AV

Profile: 23B0641R	Page No.: 29
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 17:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3:Transmit at 2452MHz by 802.11n(40MHz) with Ant0+Ant1	



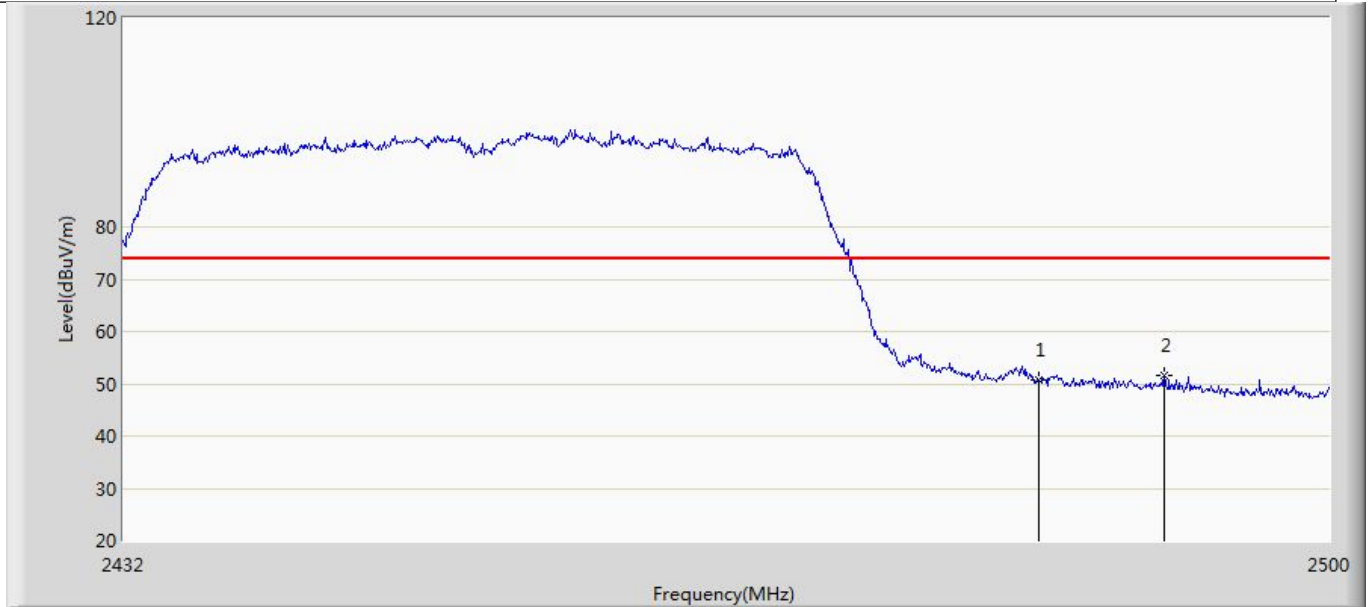
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	53.159	18.703	-20.841	74.000	34.456	PK
2	*	2484.020	55.016	20.554	-18.984	74.000	34.461	PK

Profile: 23B0641R	Page No.: 30
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 17:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3:Transmit at 2422MHz by 802.11n(40MHz) with Ant0+Ant1	



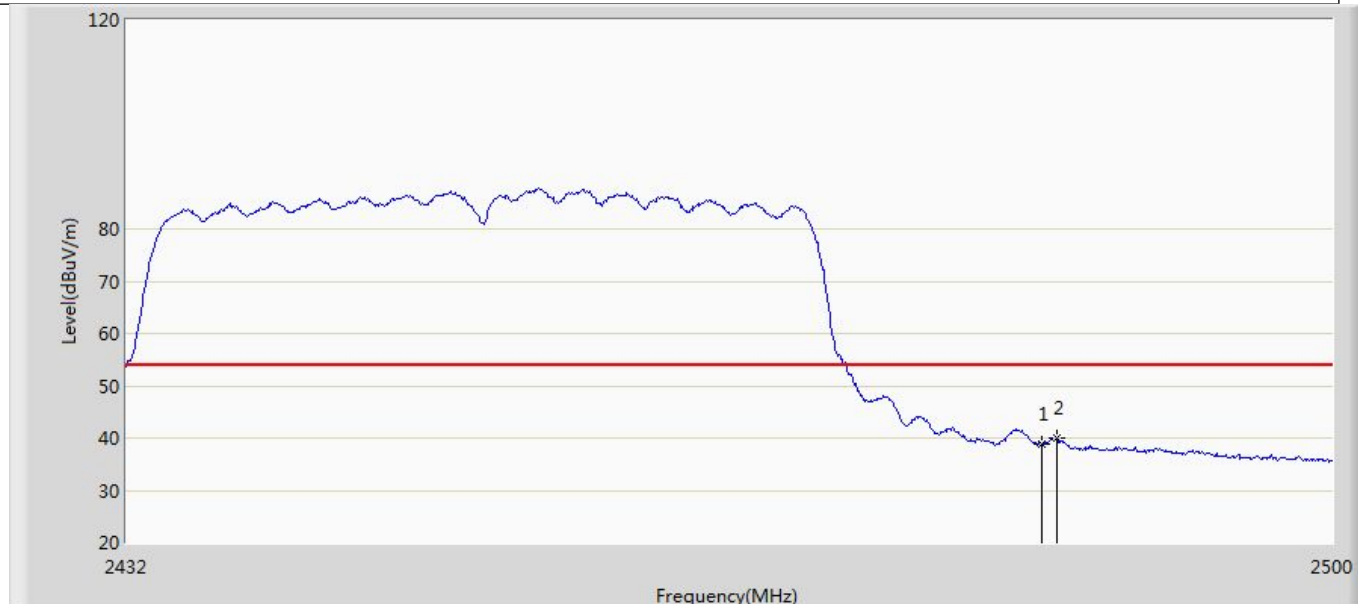
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	40.135	5.679	-13.865	54.000	34.456	AV
2	*	2484.496	41.288	6.821	-12.712	54.000	34.467	AV

Profile: 23B0641R	Page No.: 31
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 17:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3:Transmit at 2452 MHz by 802.11n(40MHz) with Ant0+Ant1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	50.764	16.308	-23.236	74.000	34.456	PK
2	*	2490.616	51.554	17.020	-22.446	74.000	34.534	PK

Profile: 23B0641R	Page No.: 32
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/09 - 17:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3:Transmit at 2452MHz by 802.11n(40MHz) with Ant0+Ant1	



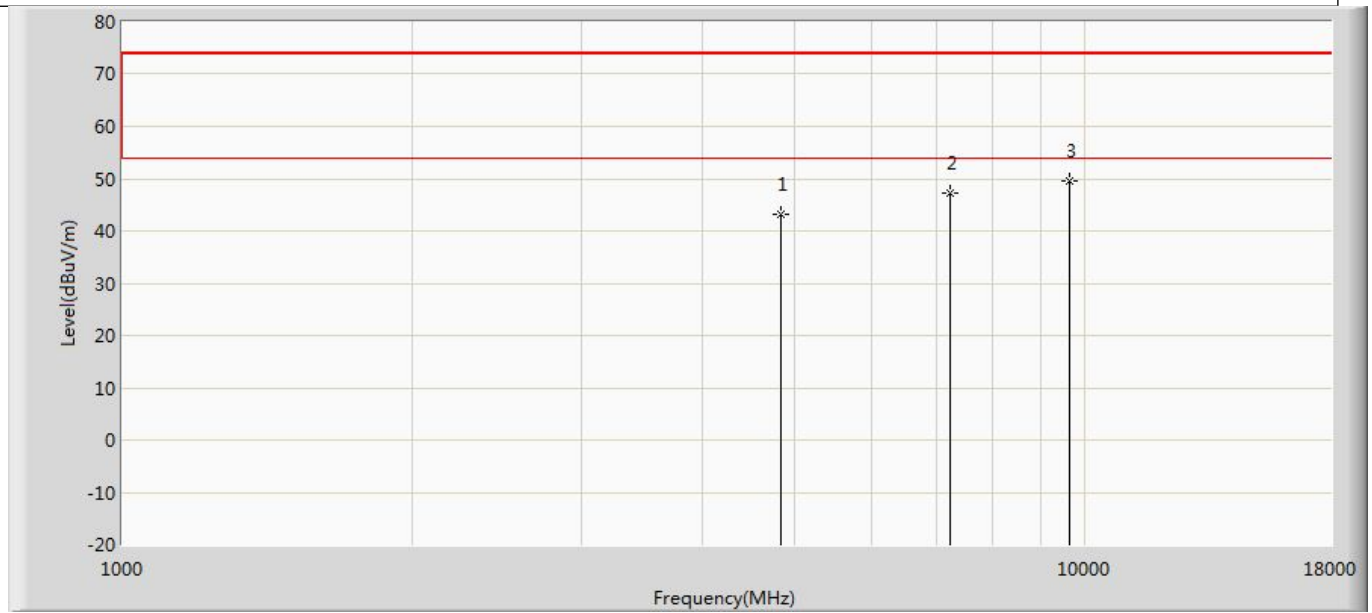
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	38.802	4.346	-15.198	54.000	34.456	AV
2	*	2484.292	40.080	5.615	-13.920	54.000	34.464	AV

Note:

1. " \* ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp). Test Photograph.

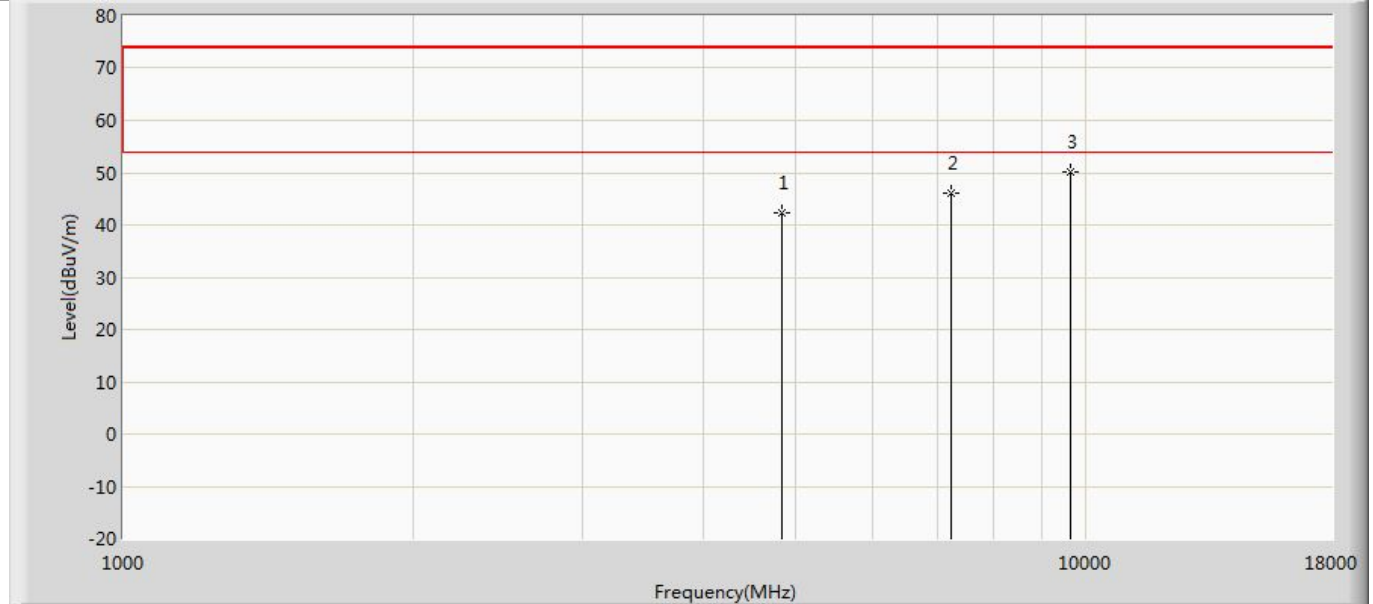
### Appendix C: Emissions in Restricted Bands

Profile: 23B0641R	Page No.: 13
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/07 - 03:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 1: Transmit at 2412MHz by 802.11b with Ant1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	43.056	54.976	-30.944	74.000	-11.920	PK
2		7236.000	47.187	53.821	-26.813	74.000	-6.634	PK
3	*	9648.000	49.639	53.413	-24.361	74.000	-3.774	PK

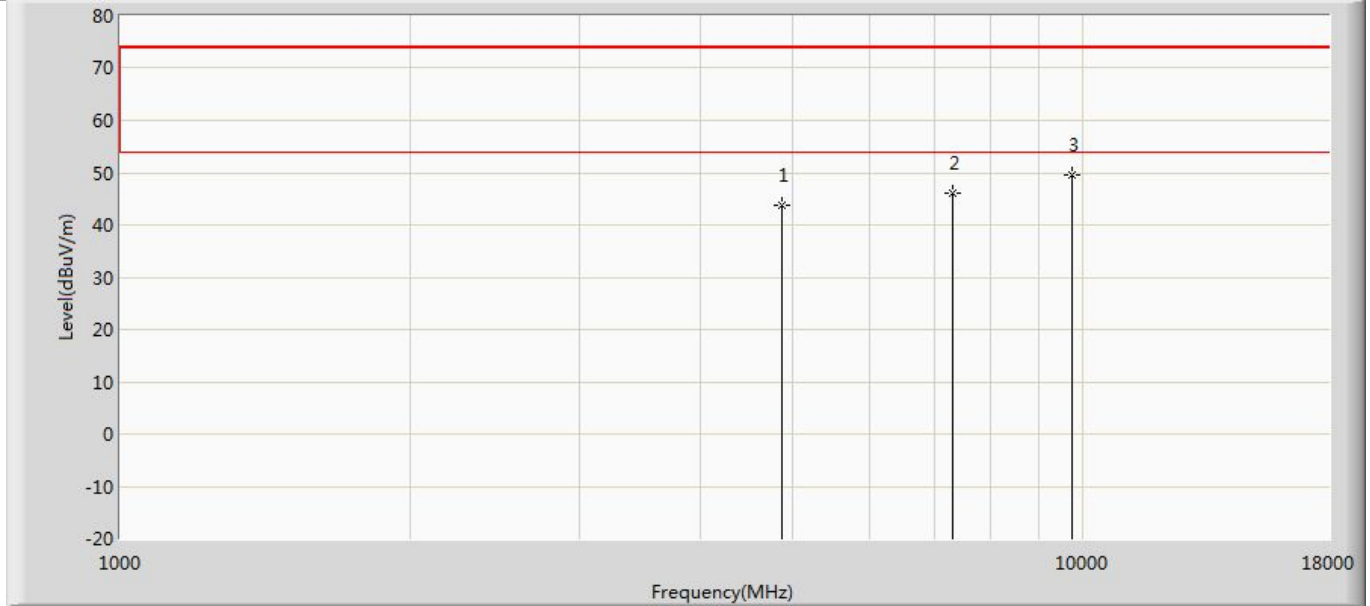
Profile: 23B0641R	Page No.: 14
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/07 - 03:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 1: Transmit at 2412MHz by 802.11b with Ant1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	42.310	54.230	-31.690	74.000	-11.920	PK
2		7236.000	46.088	52.722	-27.912	74.000	-6.634	PK
3	*	9648.000	50.035	53.809	-23.965	74.000	-3.774	PK

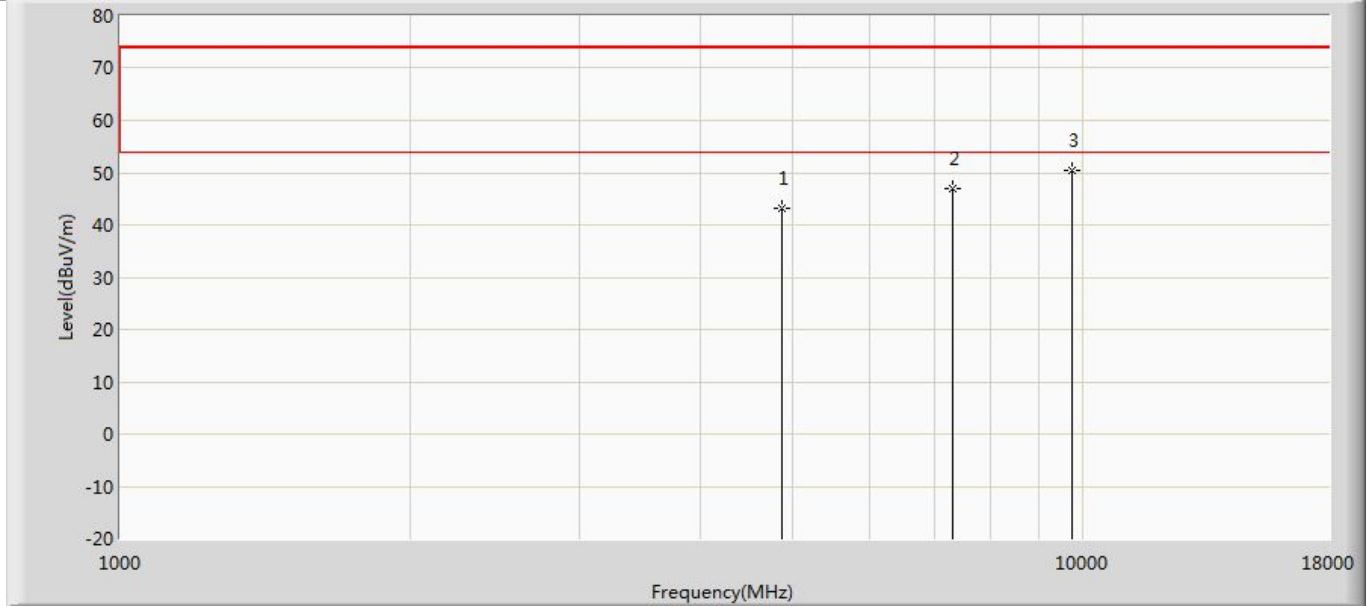


Profile: 23B0641R	Page No.: 15
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/07 - 03:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 1: Transmit at 2437MHz by 802.11b with Ant1	



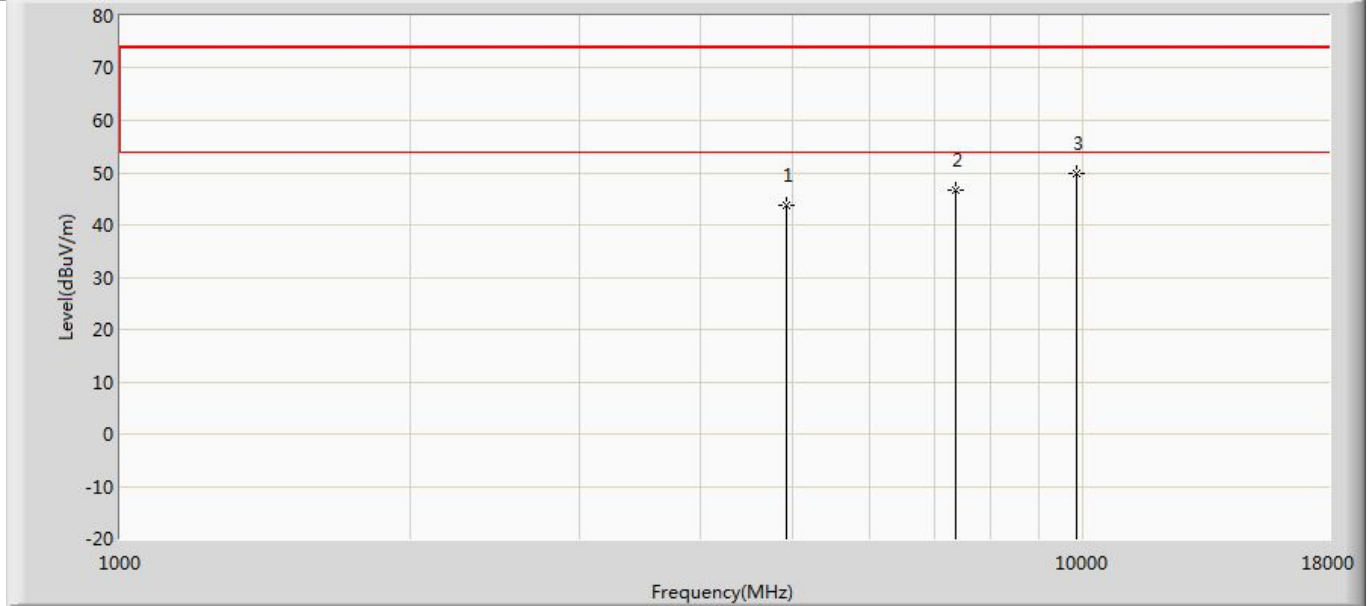
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	43.830	54.304	-30.170	74.000	-10.474	PK
2		7311.000	46.117	53.252	-27.883	74.000	-7.135	PK
3	*	9748.000	49.629	52.523	-24.371	74.000	-2.893	PK

Profile: 23B0641R	Page No.: 16
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/07 - 03:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 1: Transmit at 2437MHz by 802.11b with Ant1	



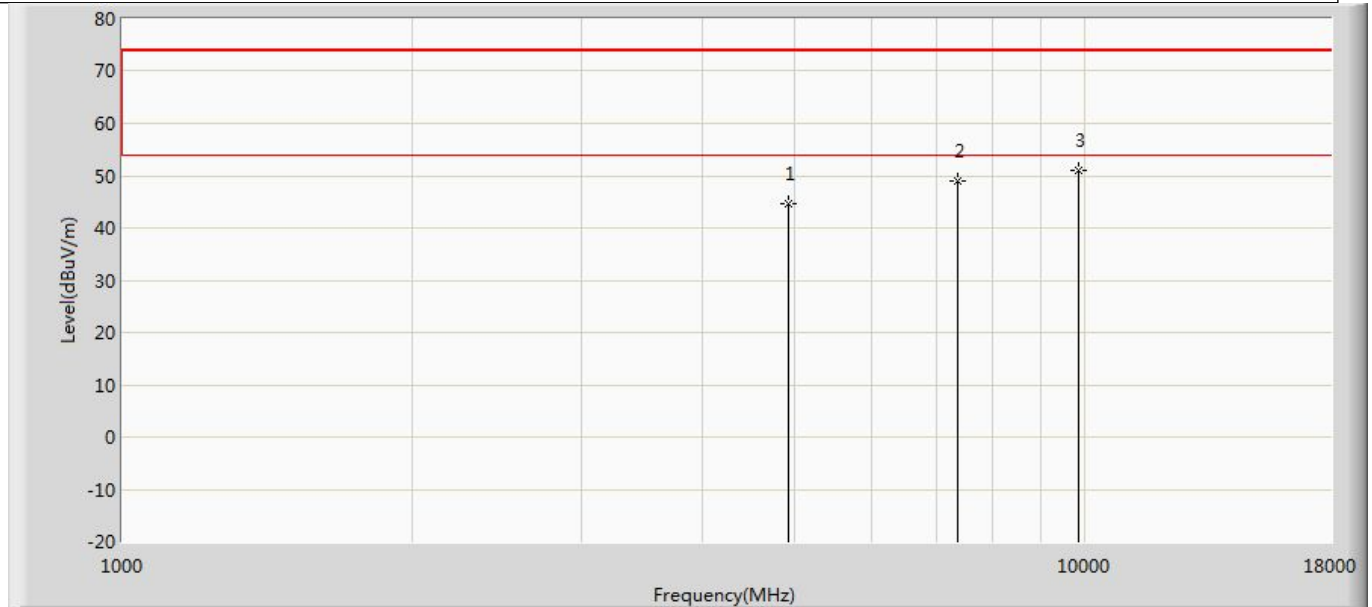
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	43.175	53.649	-30.825	74.000	-10.474	PK
2		7311.000	46.935	54.070	-27.065	74.000	-7.135	PK
3	*	9748.000	50.429	53.323	-23.571	74.000	-2.893	PK

Profile: 23B0641R	Page No.: 17
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/07 - 03:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 1: Transmit at 2462MHz by 802.11b with Ant1	



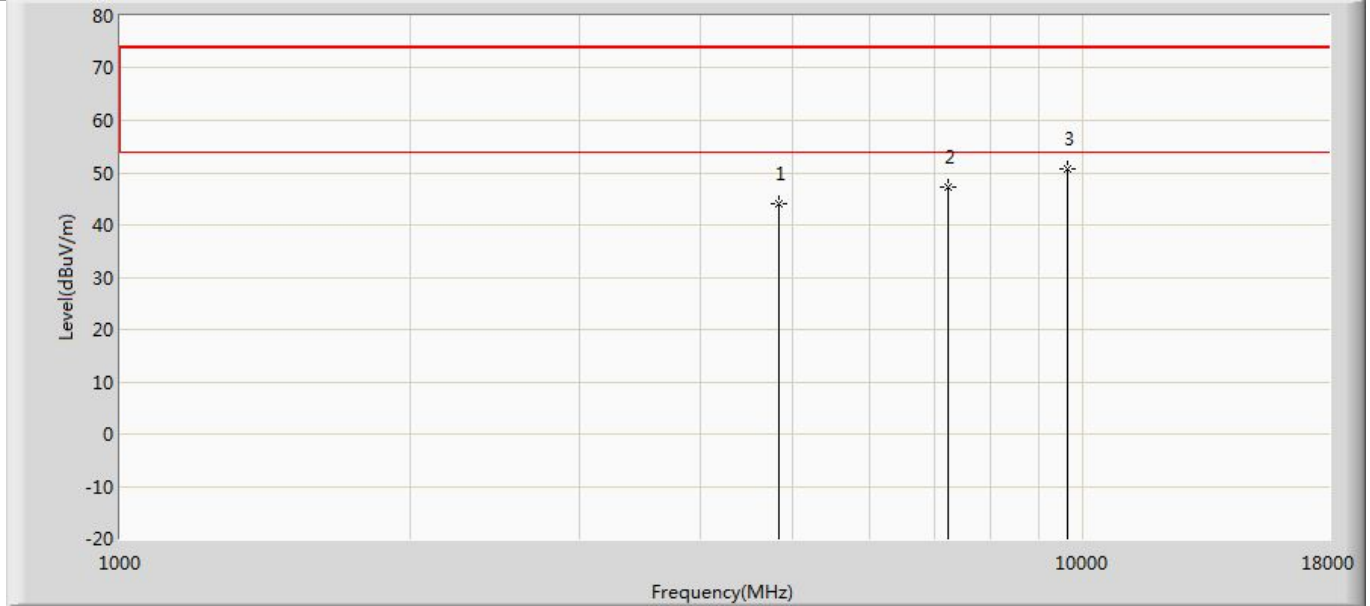
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	43.834	55.445	-30.166	74.000	-11.611	PK
2		7386.000	46.678	53.293	-27.322	74.000	-6.615	PK
3	*	9848.000	49.814	52.280	-24.186	74.000	-2.466	PK

Profile: 23B0641R	Page No.: 18
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/07 - 03:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 1: Transmit at 2462MHz by 802.11b with Ant1	



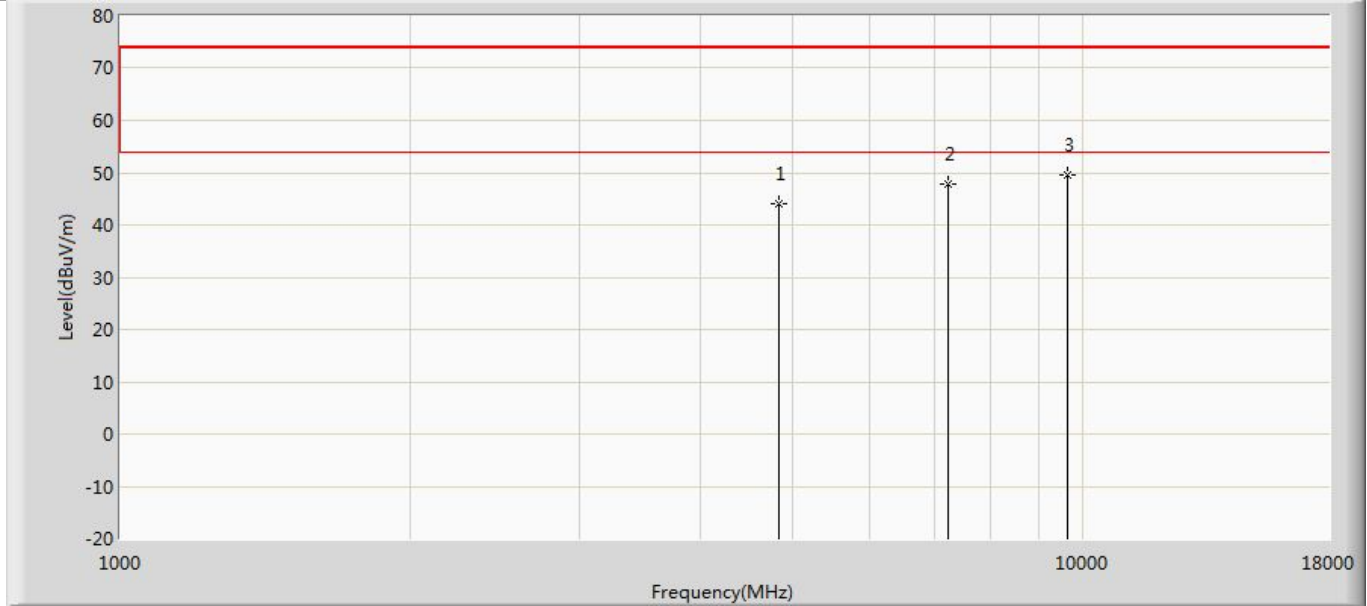
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	44.669	56.280	-29.331	74.000	-11.611	PK
2		7386.000	48.855	55.470	-25.145	74.000	-6.615	PK
3	*	9848.000	51.098	53.564	-22.902	74.000	-2.466	PK

Profile: 23B0641R	Page No.: 19
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/07 - 03:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 2: Transmit at 2412MHz by 802.11g with Ant1	



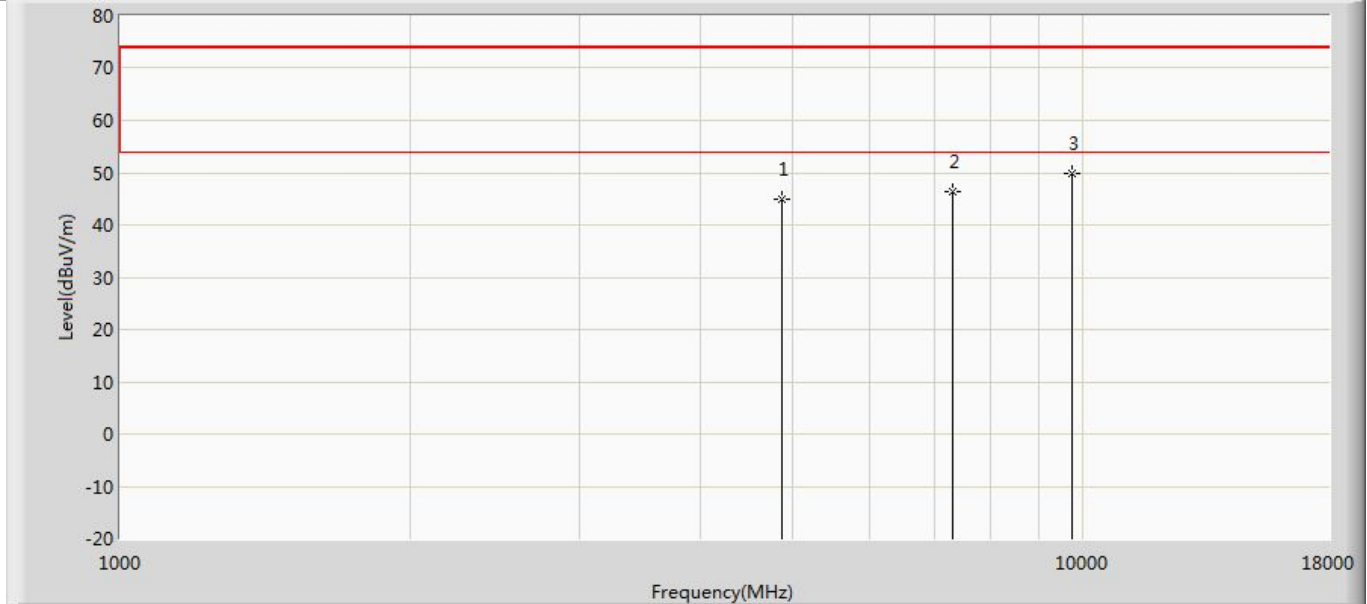
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	44.178	56.098	-29.822	74.000	-11.920	PK
2		7236.000	47.382	54.016	-26.618	74.000	-6.634	PK
3	*	9648.000	50.780	54.554	-23.220	74.000	-3.774	PK

Profile: 23B0641R	Page No.: 20
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/07 - 03:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 2: Transmit at 2412MHz by 802.11g with Ant1	



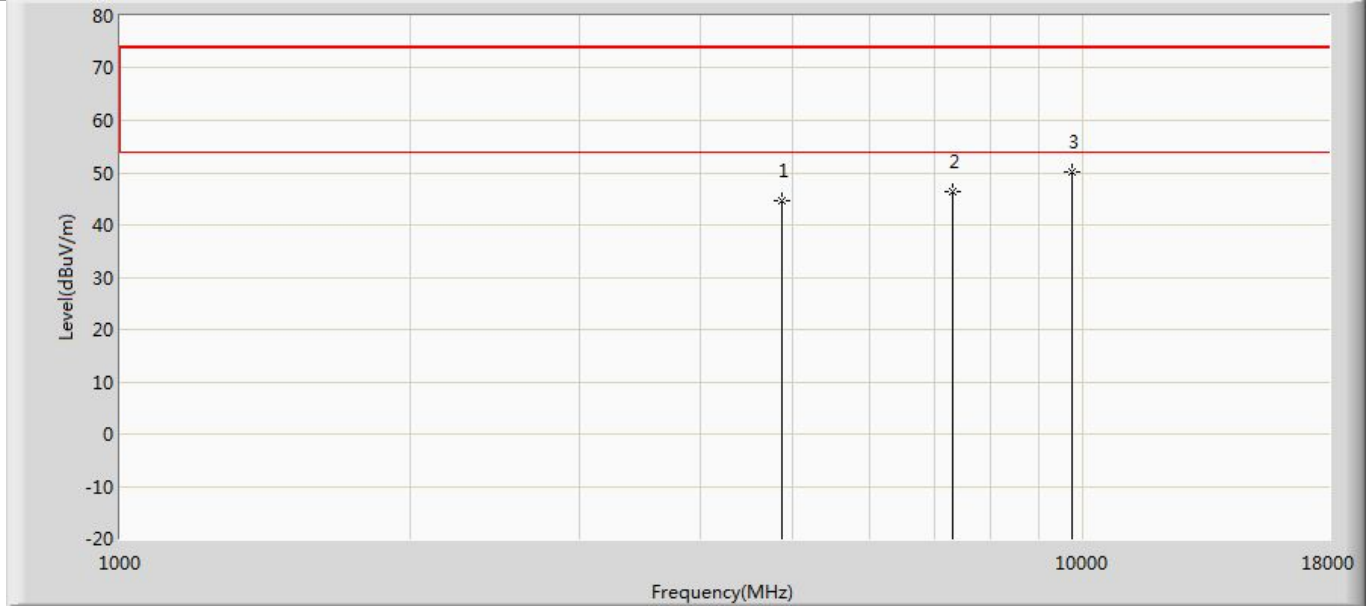
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	43.961	55.881	-30.039	74.000	-11.920	PK
2		7236.000	47.827	54.461	-26.173	74.000	-6.634	PK
3	*	9648.000	49.658	53.432	-24.342	74.000	-3.774	PK

Profile: 23B0641R	Page No.: 21
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/07 - 03:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 2: Transmit at 2437MHz by 802.11g with Ant1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	44.930	55.404	-29.070	74.000	-10.474	PK
2		7311.000	46.454	53.589	-27.546	74.000	-7.135	PK
3	*	9748.000	49.738	52.632	-24.262	74.000	-2.893	PK

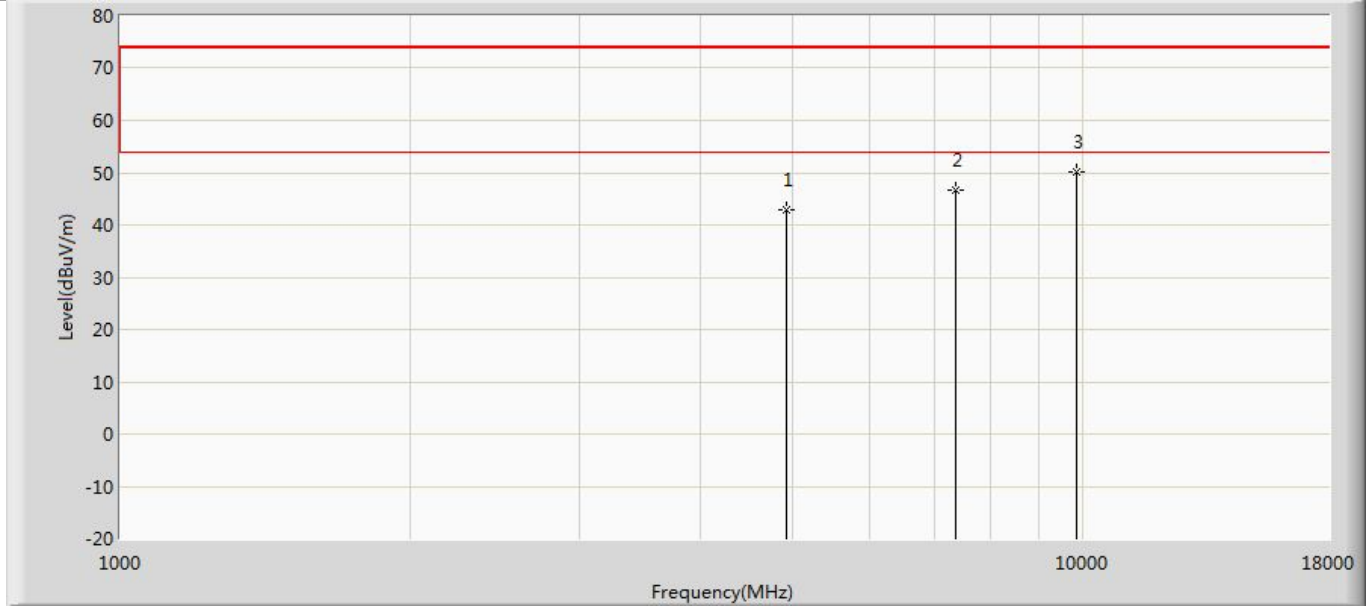
Profile: 23B0641R	Page No.: 22
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/07 - 03:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 2: Transmit at 2437MHz by 802.11g with Ant1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	44.644	55.118	-29.356	74.000	-10.474	PK
2		7311.000	46.348	53.483	-27.652	74.000	-7.135	PK
3	*	9748.000	50.264	53.158	-23.736	74.000	-2.893	PK

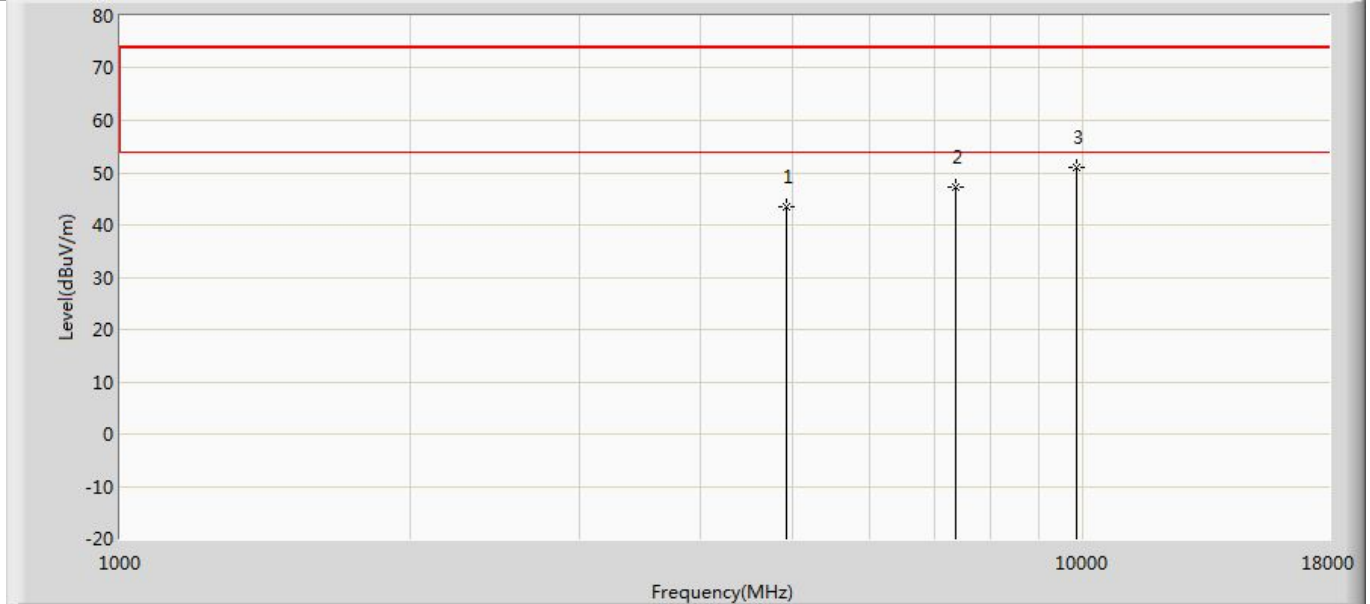


Profile: 23B0641R	Page No.: 23
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/07 - 03:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 2: Transmit at 2462MHz by 802.11g with Ant1	



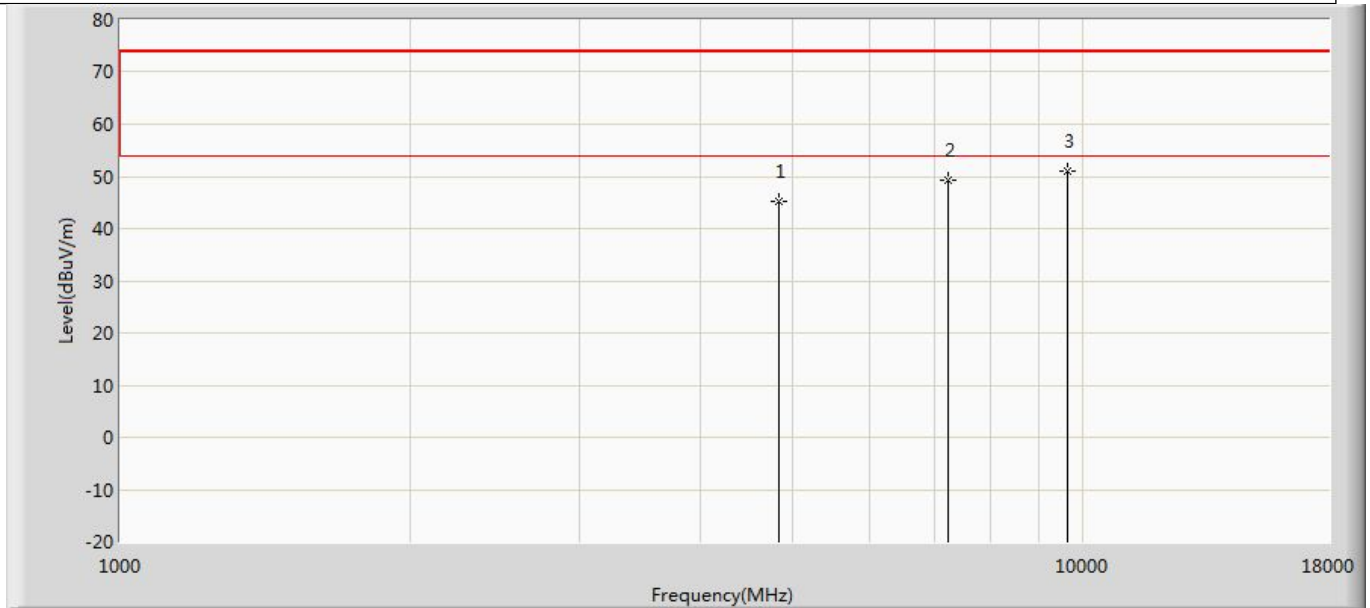
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	42.892	54.503	-31.108	74.000	-11.611	PK
2		7386.000	46.540	53.155	-27.460	74.000	-6.615	PK
3	*	9848.000	50.066	52.532	-23.934	74.000	-2.466	PK

Profile: 23B0641R	Page No.: 24
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/07 - 03:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 2: Transmit at 2462MHz by 802.11g with Ant1	



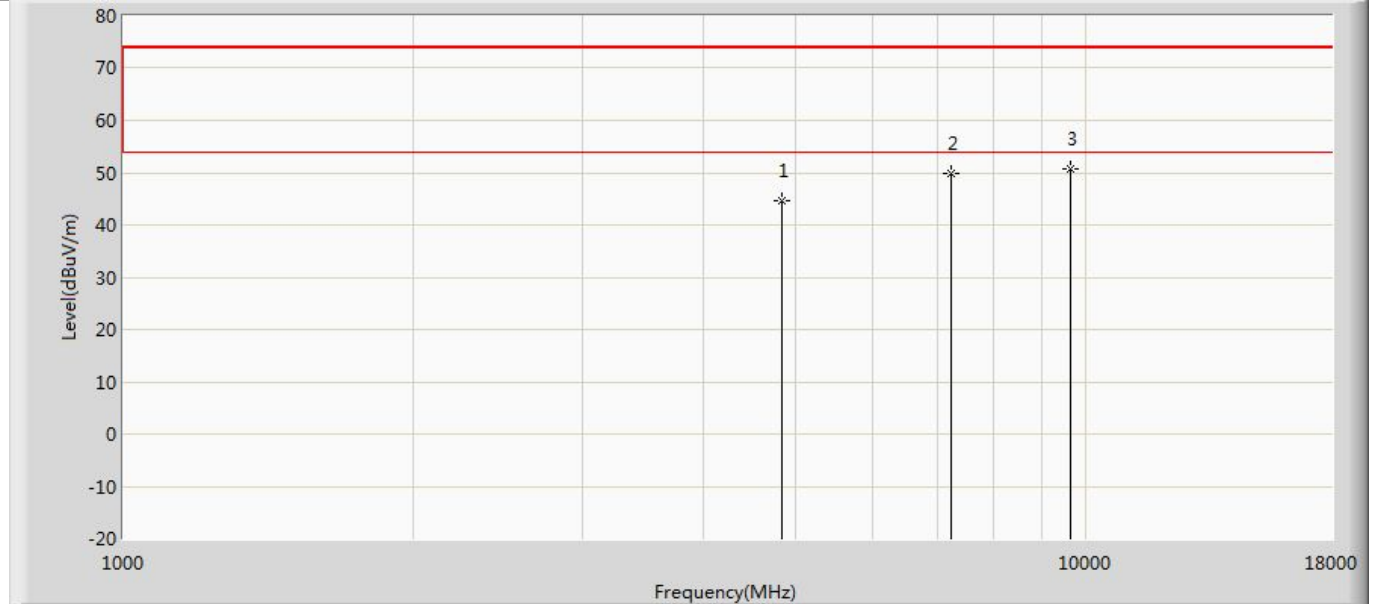
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	43.600	55.211	-30.400	74.000	-11.611	PK
2		7386.000	47.175	53.790	-26.825	74.000	-6.615	PK
3	*	9848.000	51.101	53.567	-22.899	74.000	-2.466	PK

Profile: 23B0641R	Page No.: 13
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/06 - 12:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3: Transmit at 2412MHz by 802.11n(20MHz) with Ant1+Ant2	



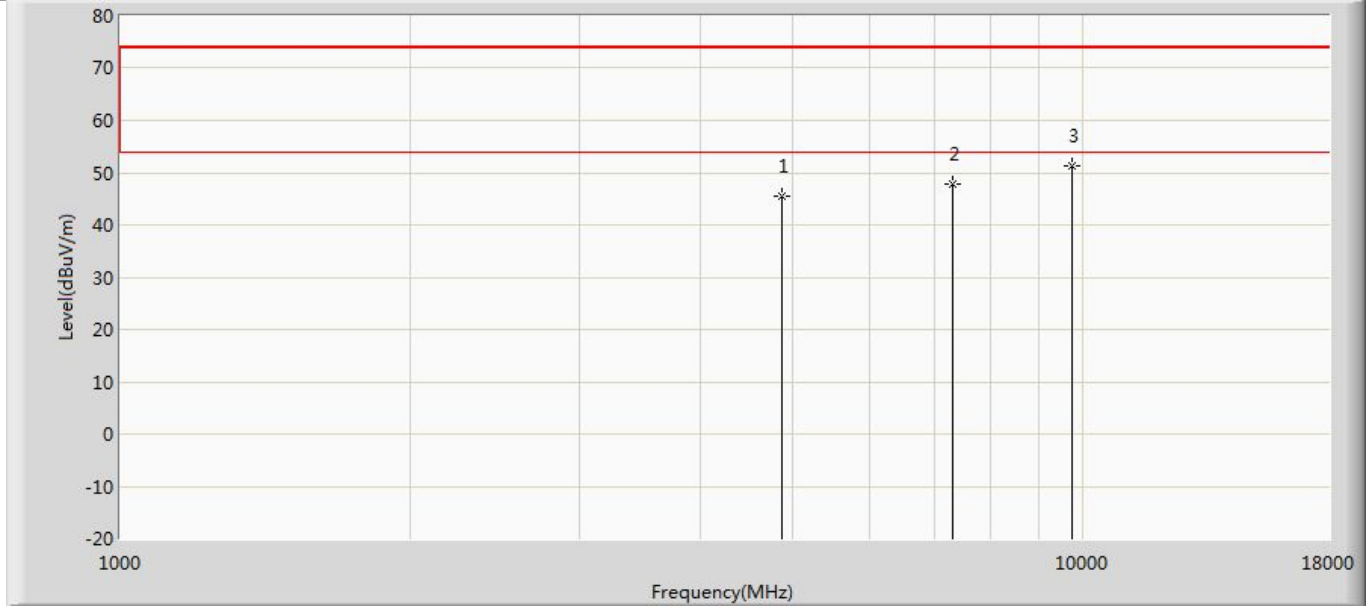
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	45.330	57.250	-28.670	74.000	-11.920	PK
2		7236.000	49.155	55.789	-24.845	74.000	-6.634	PK
3	*	9648.000	51.059	54.833	-22.941	74.000	-3.774	PK

Profile: 23B0641R	Page No.: 14
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/06 - 12:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3: Transmit at 2412MHz by 802.11n(20MHz) with Ant1+Ant2	



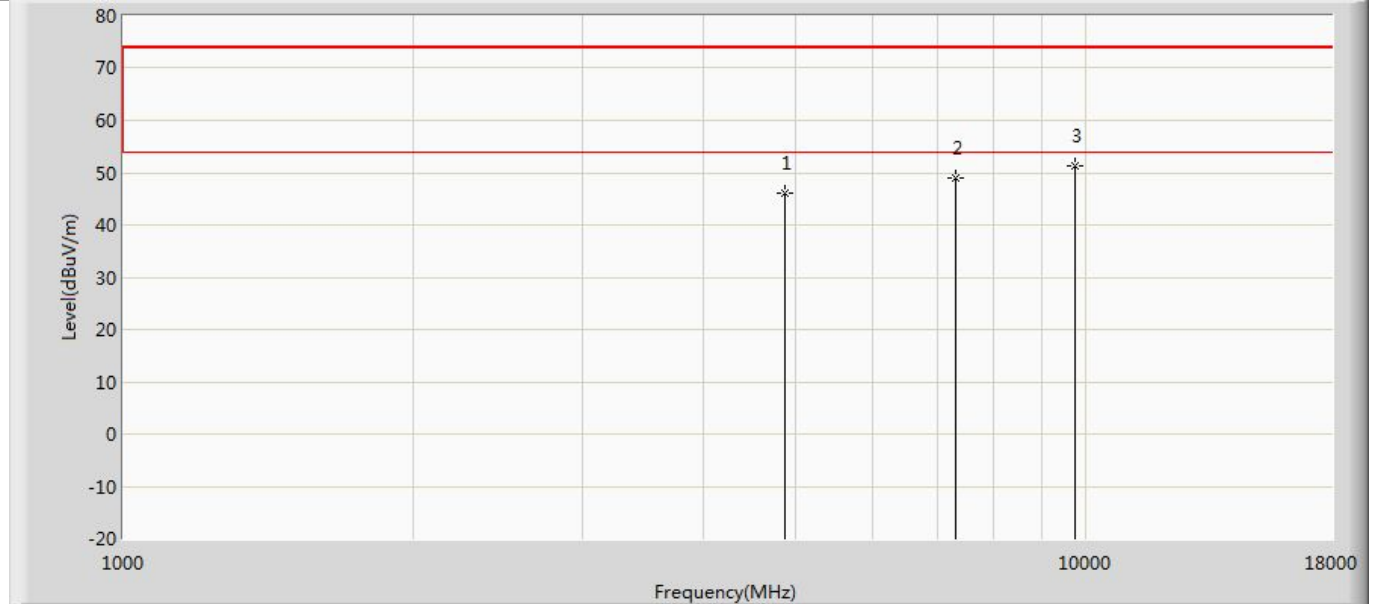
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	44.638	56.558	-29.362	74.000	-11.920	PK
2		7236.000	49.714	56.348	-24.286	74.000	-6.634	PK
3	*	9648.000	50.755	54.529	-23.245	74.000	-3.774	PK

Profile: 23B0641R	Page No.: 15
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/06 - 12:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3: Transmit at 2437MHz by 802.11n(20MHz) with Ant1+Ant2	



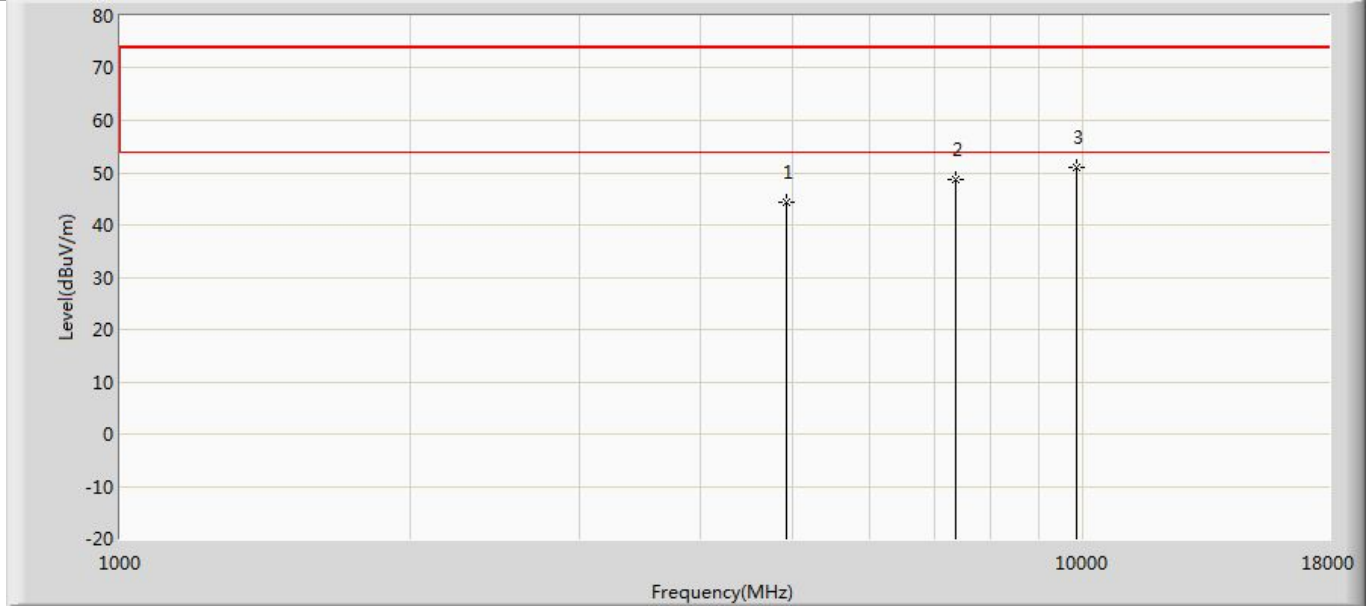
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	45.372	55.846	-28.628	74.000	-10.474	PK
2		7311.000	47.958	55.093	-26.042	74.000	-7.135	PK
3	*	9748.000	51.239	54.133	-22.761	74.000	-2.893	PK

Profile: 23B0641R	Page No.: 16
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/06 - 12:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3: Transmit at 2437MHz by 802.11n(20MHz) with Ant1+Ant2	



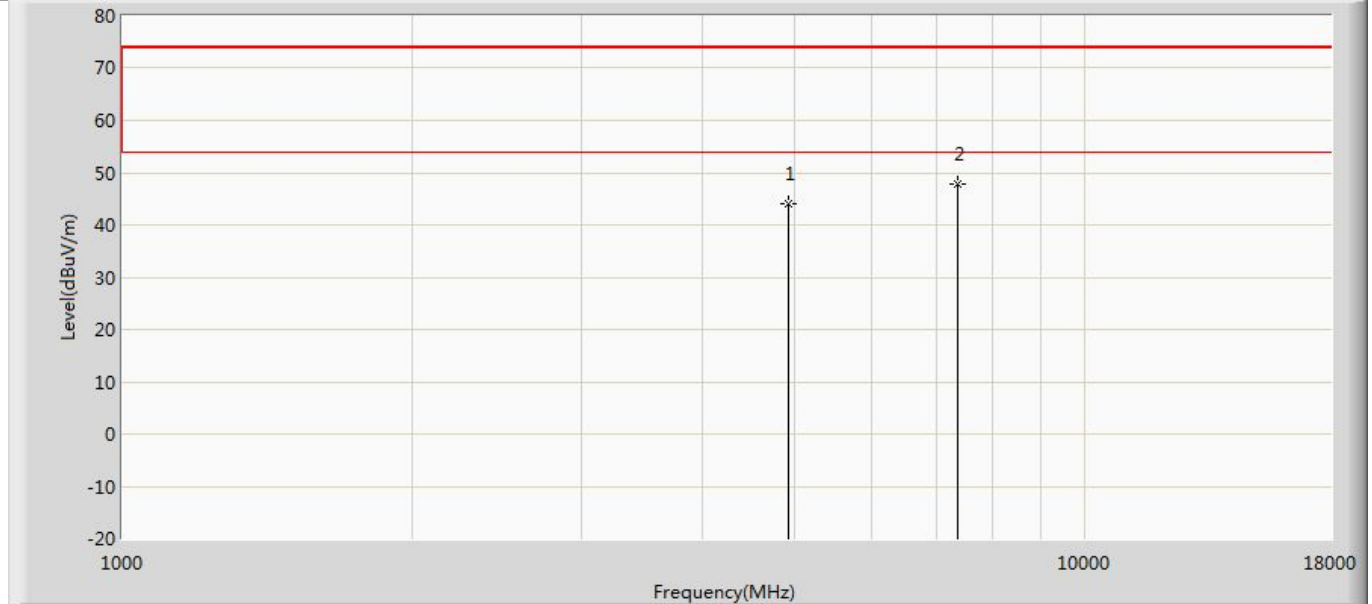
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	45.958	56.432	-28.042	74.000	-10.474	PK
2		7311.000	49.015	56.150	-24.985	74.000	-7.135	PK
3	*	9748.000	51.226	54.120	-22.774	74.000	-2.893	PK

Profile: 23B0641R	Page No.: 17
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/06 - 12:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3: Transmit at 2462MHz by 802.11n(20MHz) with Ant1+Ant2	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	44.273	55.884	-29.727	74.000	-11.611	PK
2		7386.000	48.691	55.306	-25.309	74.000	-6.615	PK
3	*	9848.000	50.876	53.342	-23.124	74.000	-2.466	PK

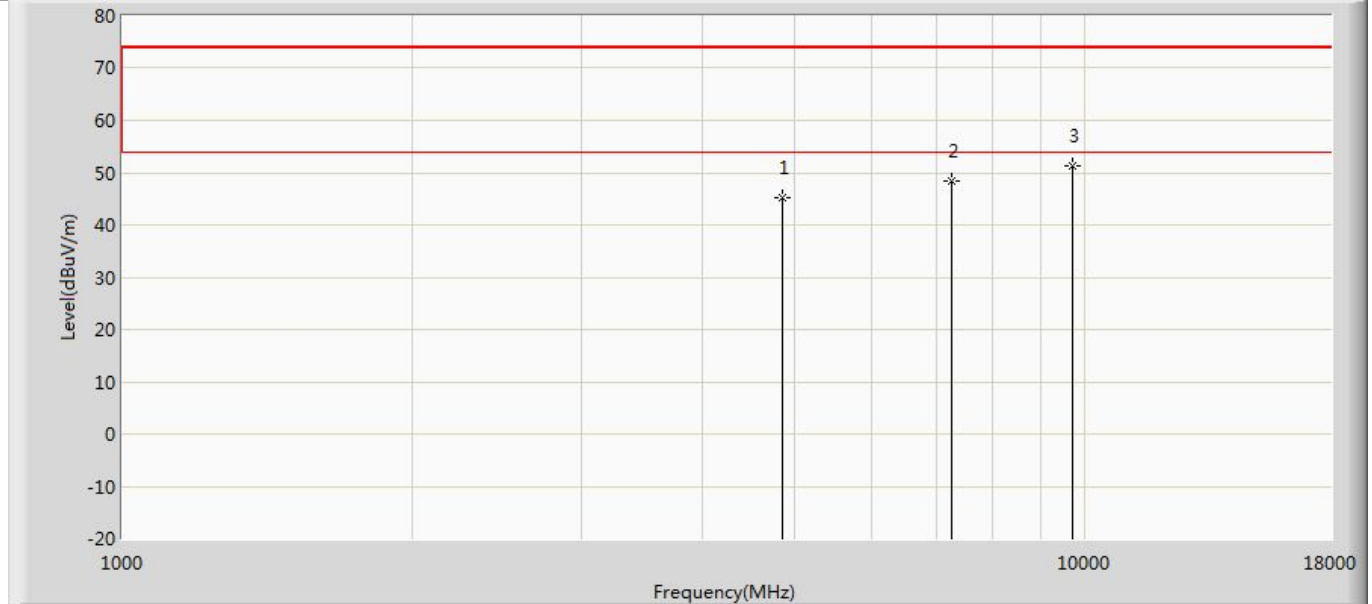
Profile: 23B0641R	Page No.: 18
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/06 - 12:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 3: Transmit at 2462MHz by 802.11n(20MHz) with Ant1+Ant2	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	44.144	55.755	-29.856	74.000	-11.611	PK
2	*	7386.000	47.691	54.306	-26.309	74.000	-6.615	PK

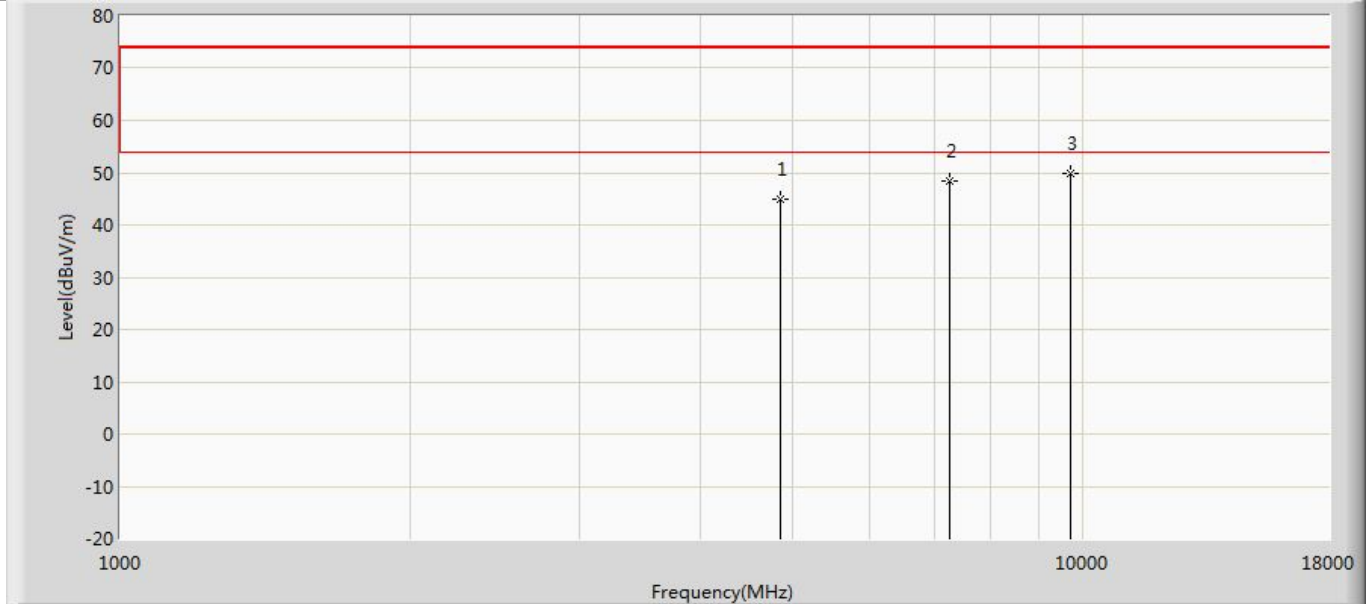


Profile: 23B0641R	Page No.: 19
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/06 - 12:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 4 : Transmit at 2422MHz by 802.11n(40MHz) with Ant1+Ant2	



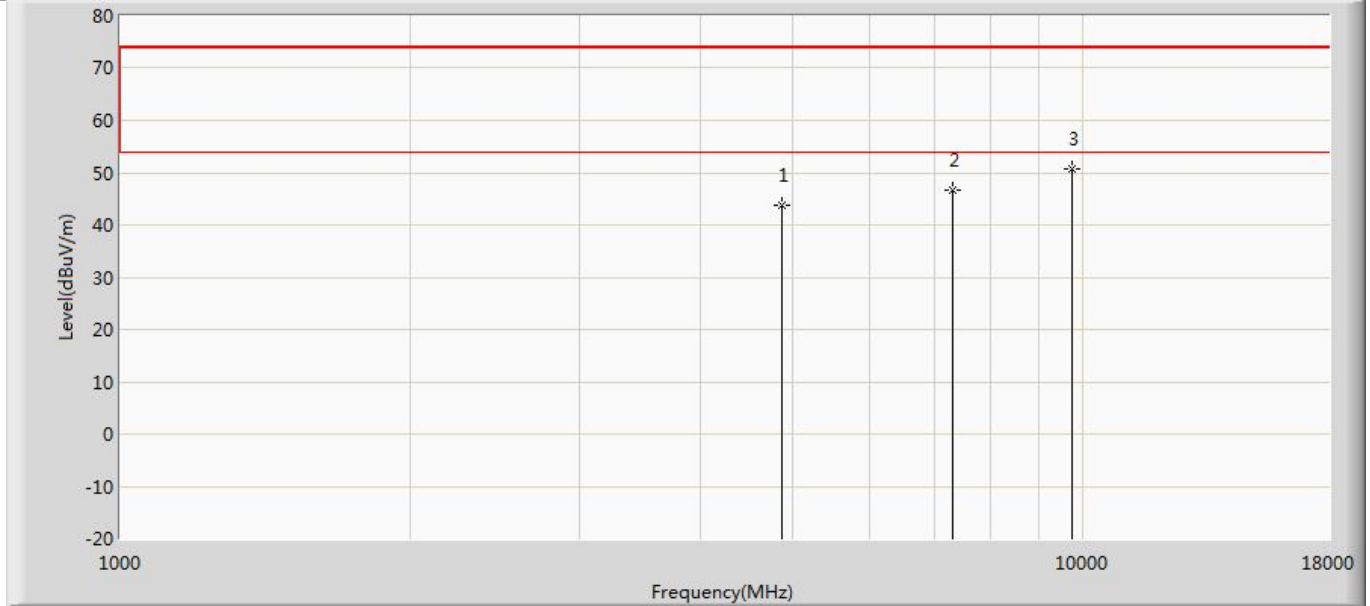
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4844.000	45.348	56.616	-28.652	74.000	-11.268	PK
2		7266.000	48.508	55.212	-25.492	74.000	-6.705	PK
3	*	9688.000	51.323	54.515	-22.677	74.000	-3.191	PK

Profile: 23B0641R	Page No.: 20
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/06 - 12:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 4 : Transmit at 2422MHz by 802.11n(40MHz) with Ant1+Ant2	



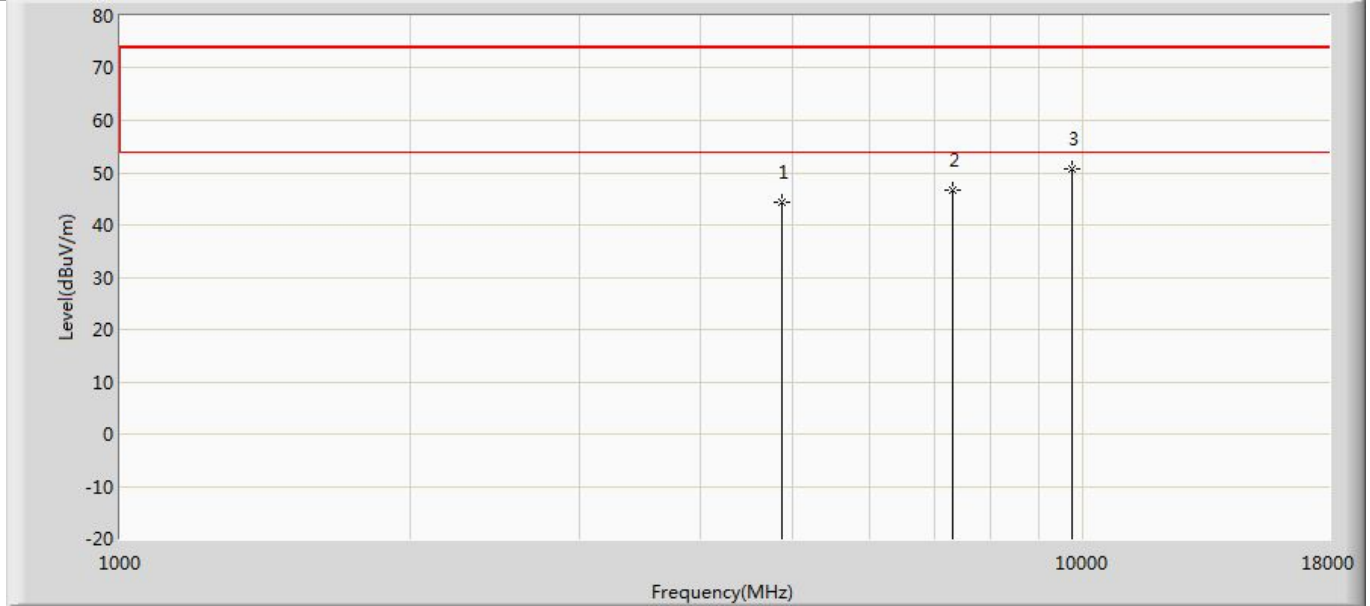
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4844.000	45.053	56.321	-28.947	74.000	-11.268	PK
2		7266.000	48.360	55.064	-25.640	74.000	-6.705	PK
3	*	9688.000	49.933	53.125	-24.067	74.000	-3.191	PK

Profile: 23B0641R	Page No.: 21
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/06 - 12:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 4 : Transmit at 2437MHz by 802.11n(40MHz) with Ant1+Ant2	



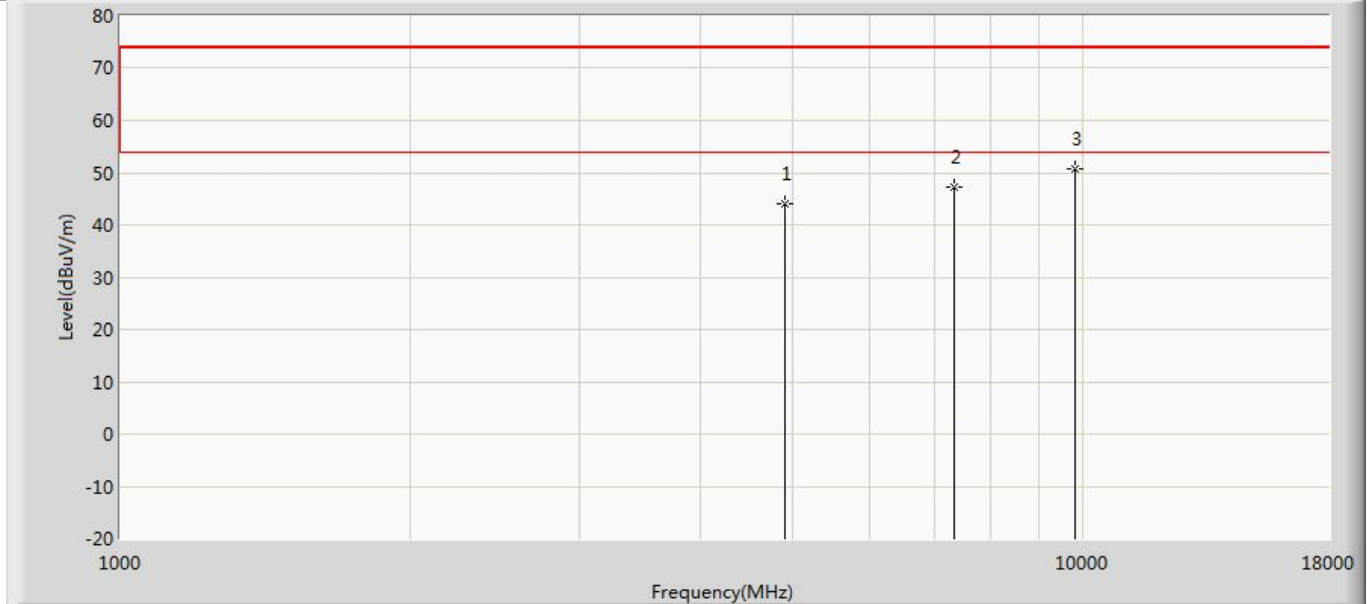
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	43.862	54.336	-30.138	74.000	-10.474	PK
2		7311.000	46.577	53.712	-27.423	74.000	-7.135	PK
3	*	9748.000	50.789	53.683	-23.211	74.000	-2.893	PK

Profile: 23B0641R	Page No.: 22
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/06 - 12:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 4 : Transmit at 2437MHz by 802.11n(40MHz) with Ant1+Ant2	



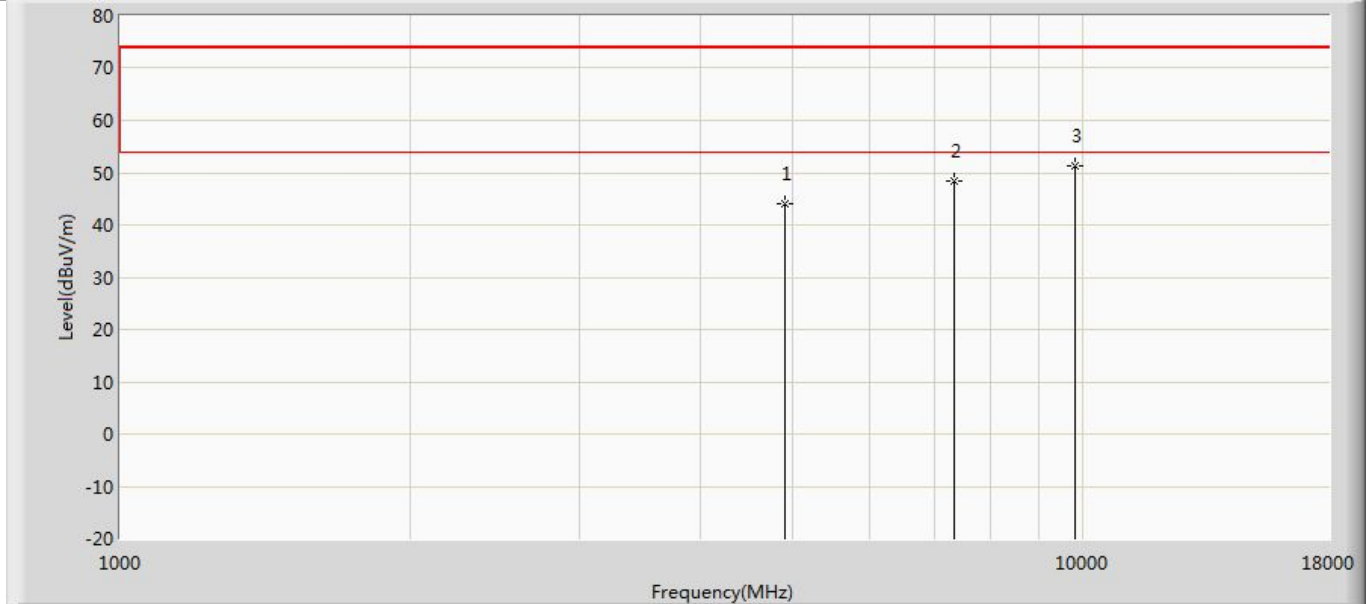
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	44.389	54.863	-29.611	74.000	-10.474	PK
2		7311.000	46.734	53.869	-27.266	74.000	-7.135	PK
3	*	9748.000	50.853	53.747	-23.147	74.000	-2.893	PK

Profile: 23B0641R	Page No.: 23
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/06 - 12:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 4 : Transmit at 2452MHz by 802.11n(40MHz) with Ant1+Ant2	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4904.000	44.192	55.766	-29.808	74.000	-11.573	PK
2		7356.000	47.337	53.875	-26.663	74.000	-6.539	PK
3	*	9808.000	50.708	54.077	-23.292	74.000	-3.369	PK

Profile: 23B0641R	Page No.: 24
Engineer: Pengcheng Yang	
Site: AC5	Time: 2023/12/06 - 12:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 4 : Transmit at 2452MHz by 802.11n(40MHz) with Ant1+Ant2	



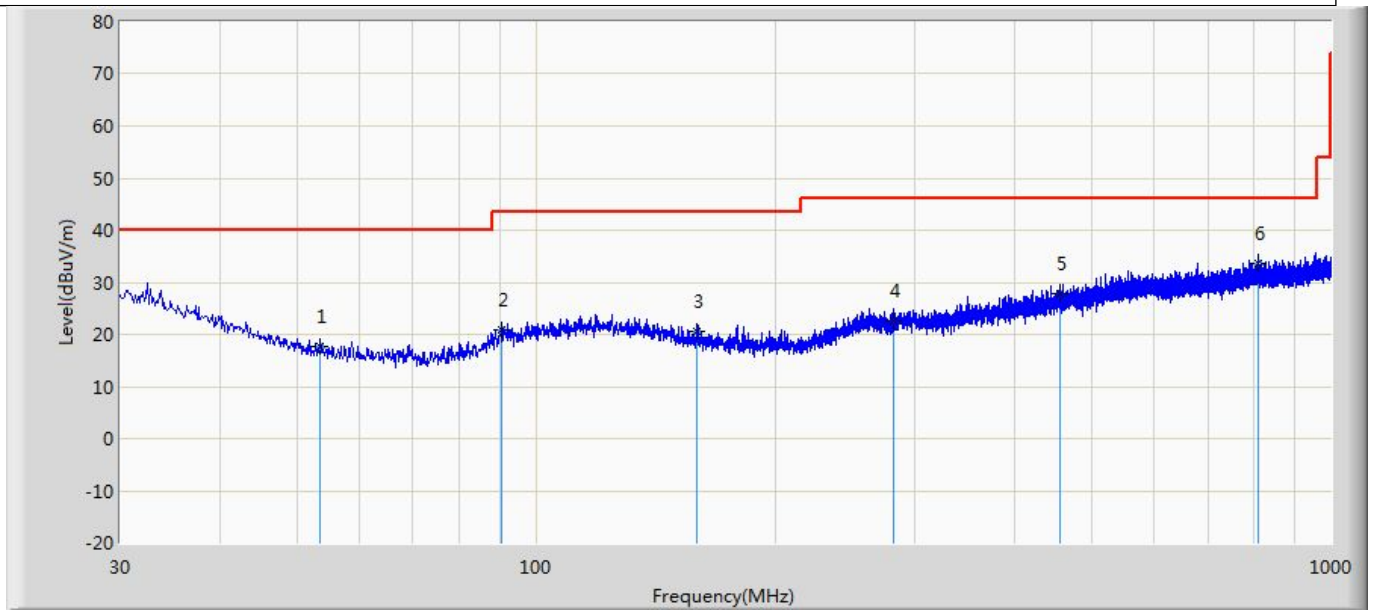
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4904.000	44.140	55.714	-29.860	74.000	-11.573	PK
2		7356.000	48.330	54.868	-25.670	74.000	-6.539	PK
3	*	9808.000	51.264	54.633	-22.736	74.000	-3.369	PK

Note:

1. " \* ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp). Test Photograph.
3. We evaluated/tested SISO and MIMO modes, only the worst data is shown in the report..

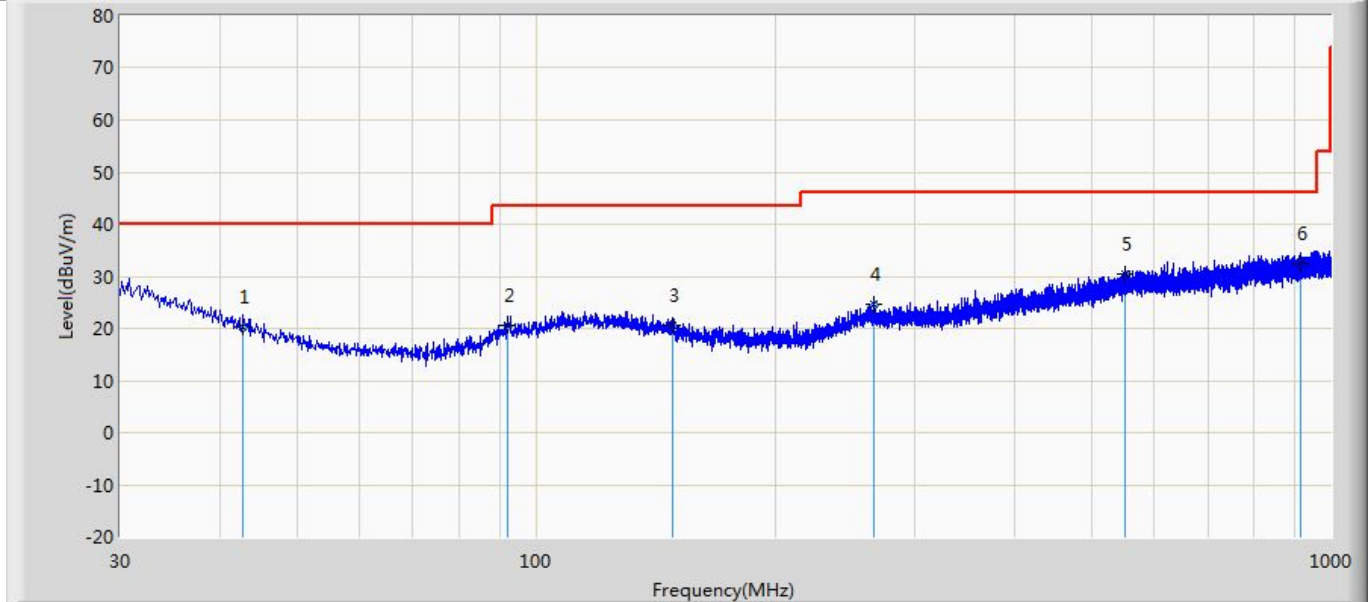
**The worst case of radiation emissions in restricted bands below 1GHz:**

Profile: 23B0641R	Page No.: 47
Engineer: Pengchengyang	
Site: AC2	Time: 2023/12/14 - 08:48
Limit: FCC_Part 15.109_RE (3m)_Class B	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 1: Transmit at 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		53.522	17.610	3.665	-22.390	40.000	13.945	QP
2		90.504	20.813	4.809	-22.687	43.500	16.004	QP
3		159.616	20.511	3.514	-22.989	43.500	16.997	QP
4		281.230	22.599	2.231	-23.401	46.000	20.368	QP
5		455.466	27.860	3.118	-18.140	46.000	24.742	QP
6	*	809.153	33.634	4.236	-12.366	46.000	29.398	QP

Profile: 23B0641R	Page No.: 48
Engineer: Pengchengyang	
Site: AC2	Time: 2023/12/14 - 08:48
Limit: FCC_Part 15.109_RE (3m)_Class B	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3Vdc
Note: Mode 1: Transmit at 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		42.853	20.266	2.196	-19.734	40.000	18.070	QP
2		92.201	20.711	4.312	-22.789	43.500	16.399	QP
3		148.825	20.561	3.043	-22.939	43.500	17.518	QP
4		266.437	24.700	4.184	-21.300	46.000	20.516	QP
5		550.590	30.500	3.371	-15.500	46.000	27.129	QP
6	*	916.338	32.358	2.420	-13.642	46.000	29.938	QP

Note:

1. " \* ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp). Test Photograph.
3. We evaluated/tested both SISO and MIMO mode,shown in report is the worst data.

The End