DEKRA Testing and Certification (Suzhou) Co., Ltd.
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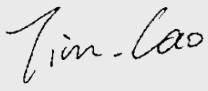
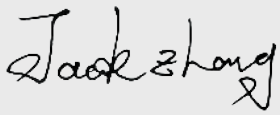
Test report No:
2410620R-RF-US-P06V01

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 Amendment 2 RSS-247 Issue3
Verdict Summary	IN COMPLIANCE
Tested by (name / position & signature)	Tim Cao/Project Manager 
Approved by (name / position & signature)	Jack Zhang/ Manager 
Date of issue	2024-04-11
Report Version	V1.1
Report template No	Template_FCC 15.247-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.

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GENERAL CONDITIONS

Test Location	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Date(receive sample)	Feb. 04, 2024
Date (start test)	Feb. 29, 2024
Date (finish test)	Mar. 19, 2024

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
*T*x : Transmitter
*R*x : Receiver
N/A : Not Applicable
N/M : Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
2410620R-RF-US-P06V01	V1.0	Initial issue of report.	2024-04-07
2410620R-RF-US-P06V01	V1.1	Page 28: Update power test data. Page 29: Add DH5 2402 Horizontal Peak test data. (The test report No.: 2410620R-RF-US-P06V01 V1.1 is to replace the test report No.: 2410620R-RF-US-P06V01 V1.0, and test report 2410620R-RF-US-P06V01 V1.0 is obsoleted.)	2024-04-11

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 output power, 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 Issue3) and to meet the requirements of the Calss II permissible variations. The module certification report number is 4790010773.1-2.
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 Information;
- Chapter 1.3Channel 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	2024.02.06	2025.02.05	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	27613	2023.09.13	2024.09.12	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	2024.01.25	2025.01.24	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	2023.05.21	2024.05.20	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%.The Uncertainties is complice with standard required as below.

Test item	Uncertainty
AC Power Line Conducted Emission	9kHz~150kHz: 2.80dB 150kHz~30MHz: 2.40dB
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~40GHz)	Horizontal: 1GHz~18GHz: 5.00 dB Vertical: 1GHz~18GHz: 4.80 dB
20dB Bandwidth	± 1 kHz
Carrier Frequency Separation	± 1 kHz
Number of Hopping Frequencies	± 1 kHz
Time of Occupancy (Dwell Time)	± 0.1 us
Peak OutputPower	± 1.27 dB
Emissions in non-restricted frequency bands	± 1.0 dB
Radiated Emission Band Edge	± 3.9 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 .....:	Bluetooth V5.1					
Operating frequency range(s).....:	2402~2480 MHz					
Type of Modulation .....:	GFSK					
PHYs .....:	☒	GFSK	☒	Pi/4 DQPSK	☒	8DPSK
Data Rate .....:	☒	1Mbit/s	☒	2Mbit/s	☒	3Mbit/s
Number of channel .....:	79					

Rated power supply .....:	Voltage and Frequency	
	☐	AC: 220 - 240 Vac, 50/60 Hz
	☐	AC: 100 - 240 Vac, 50/60 Hz
	☒	DC: 3.3 Vdc
	☐	Battery:
	☐	Adapter: ……
Brand of adapter .....:	N/A	
Adapter model.....:	N/A	
Mounting position .....:	☐	Table top equipment
	☐	Wall/Ceiling mounted equipment
	☐	Floor standing equipment
	☐	Hand-held/Protable equipment
	☒	Other: RF Module

1.2 Antenna Information

Material number.....:	61005-00778			61005-00701
Host model .....:	43UM340E0UZ			75UM340E0UZ
Antenna Delivery .....:	☒	1TX + 1RX		
	☐	2TX + 2RX		
	☐	Others:……		
Antenna technology.....:	☒	SISO		
	☐	MIMO	☐	CDD
			☐	Beam-forming
Antenna Type .....:	☒	External	☐	Dipole
			☐	Sectorized
			☒	FPC
	☐	Internal	☐	PIFA
			☐	PCB
			☐	Dipole
			☐	Others……..
Antenna Gain.....:	61005-00778: 2.48 dBi 61005-00701: 2.10 dBi			
	Note: The antenna used in the test was the highest gain antenna which Material number is 61005-00778.			

1.3 Channel List

Bluetooth Working Frequency of Each Channel: (For FHSS)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2403 MHz	02	2404 MHz	03	2405 MHz
04	2406 MHz	05	2407 MHz	06	2408 MHz	07	2409 MHz
08	2410 MHz	09	2411 MHz	10	2412 MHz	11	2413 MHz
12	2414 MHz	13	2415 MHz	14	2416 MHz	15	2417 MHz
16	2418 MHz	17	2419 MHz	18	2420 MHz	19	2421 MHz
20	2422 MHz	21	2423 MHz	22	2424 MHz	23	2425 MHz
24	2426 MHz	25	2427 MHz	26	2428 MHz	27	2429 MHz
28	2430 MHz	29	2431 MHz	30	2432 MHz	31	2433 MHz
32	2434 MHz	33	2435 MHz	34	2436 MHz	35	2437 MHz
36	2438 MHz	37	2439 MHz	38	2440 MHz	39	2441 MHz
40	2442 MHz	41	2443 MHz	42	2444 MHz	43	2445 MHz
44	2446 MHz	45	2447 MHz	46	2448 MHz	47	2449 MHz
48	2450 MHz	49	2451 MHz	50	2452 MHz	51	2453 MHz
52	2454 MHz	53	2455 MHz	54	2456 MHz	55	2457 MHz
56	2458 MHz	57	2459 MHz	58	2460 MHz	59	2461 MHz
60	2462 MHz	61	2463 MHz	62	2464 MHz	63	2465 MHz
64	2466 MHz	65	2467 MHz	66	2468 MHz	67	2469 MHz
68	2470 MHz	69	2471 MHz	70	2472 MHz	71	2473 MHz
72	2474 MHz	73	2475 MHz	74	2476 MHz	75	2477 MHz
76	2478 MHz	77	2479 MHz	78	2480 MHz	N/A	N/A

Note: The general description of the Item(s), antenna information 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: Transmitter-1Mbps(GFSK_DH5)
	Mode 2: Transmitter-2Mbps(Pi/4 DQPSK_DH5)
	Mode 3: Transmitter-3Mbps(8DPSK_DH5)
	Mode 4: Transmitter-Hopping-1Mbps(GFSK_DH5)
	Mode 5: Transmitter-Hopping-2Mbps(Pi/4 DQPSK_DH5)
	Mode 6: Transmitter-Hopping-3Mbps(8DPSK_DH5)

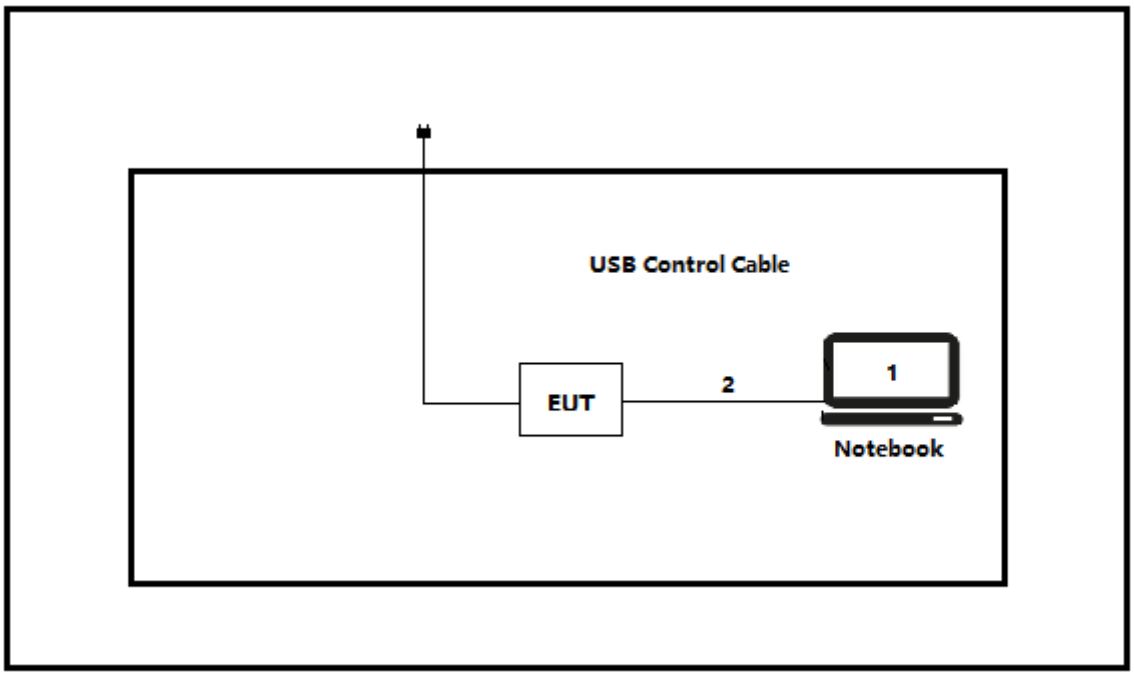
2.2 Auxiliary equipment /Accessories/Test software for the EUT

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

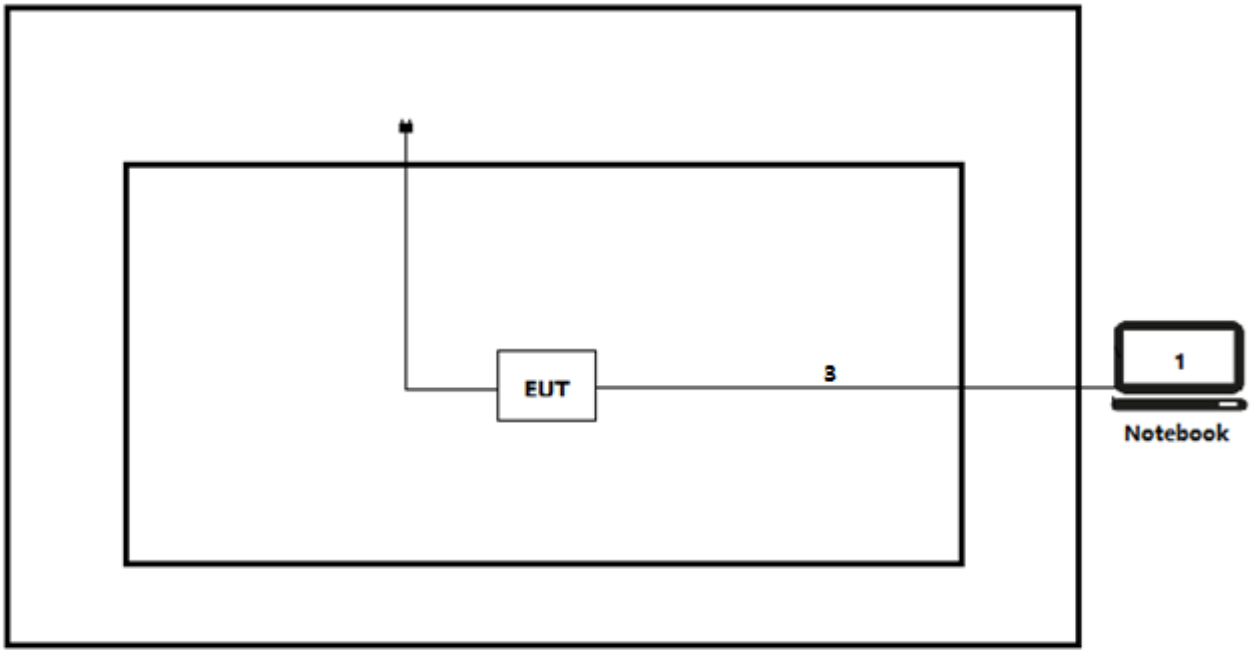
Accessories Information	Cable		
	Length used during test [m]	Attached during test	Shielded
(2)USB Control Cable	1	☒	☒
(3)USB Control Cable	8	☒	☒

2.3 Test Configuration / Block diagram used for tests

Test setup Diagram- Conducted test



Test setup Diagram- Ratiated 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	2024	Operation within the bands902–928 MHz, 2400–2483.5 MHz, and5725–5850 MHz.
ANSI C63.10	2013	American National Standard ofProcedures for Compliance Testing ofUnlicensed Wireless Devices
KDB558074 D01 v05r02	2019	Guidance for performing compliance measurements on Digital Transmission System (DTS) operating under section 15.247
RSS-Gen	2021	General Requirements for Compliance of Radio Apparatus
RSS-247	2023	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 3 Paragraph 5.4(b)	PASS	Test data please refer to **Appendix A**
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 **Appendix B**
Emissions in Restricted Bands	FCC 15.205 FCC 15.209 RSS-Gen Issue 5 Paragraph 8.9	PASS	Test data please refer to **Appendix C**
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
1Mbps(GFSK_DH5)	00~78	2402~2480	Default
2Mbps(Pi/4 DQPSK_DH5)	00~78	2402~2480	Default
3Mbps(8DPSK_DH5)	00~78	2402~2480	Default

3.5 Test Matrix

Test item	Model: SKI.WB663U.2		
	1(#1)	2()	3()
20dB Emission Bandwidth	☐	☐	☐
Maximum conducted output power	☒	☐	☐
Carrier frequency separation	☐	☐	☐
Time of occupancy	☐	☐	☐
Number of Hopping Frequencies	☐	☐	☐
Band edge measurements	☒	☐	☐
Conducted Spurious Emission	☐	☐	☐
Duty cycle	☐	☐	☐
Emissions in Restricted Bands	☒	☐	☐
AC Power Line Conducted Emission	☐	☐	☐

3.6 Test Facility

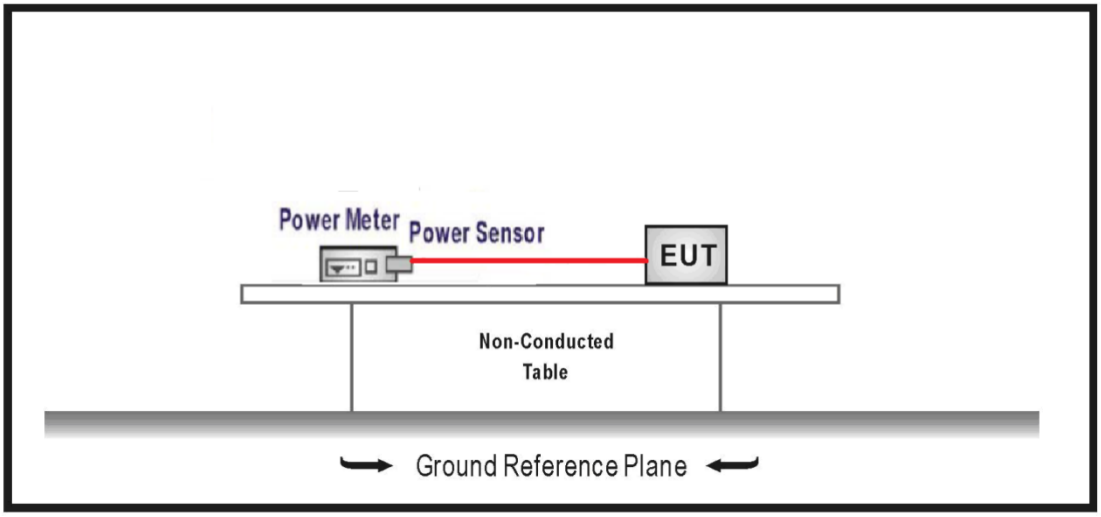
USA	:	**FCC Designation Number: CN1199**
CA	:	**ISED CAB identifier: CN0040**

4 TEST ITEMS OF LIMIT/SETUP/PROCEDURE

4.1 Maximum conducted output power	VERDICT: PASS

4.1.1 Limit	
Standard	FCC Part 15 Subpart C Paragraph 15.247 (a)(1)
☒	Frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
☒	Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
☐	For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels

4.1.2 Test Setup



4.1.3 Test Procedure

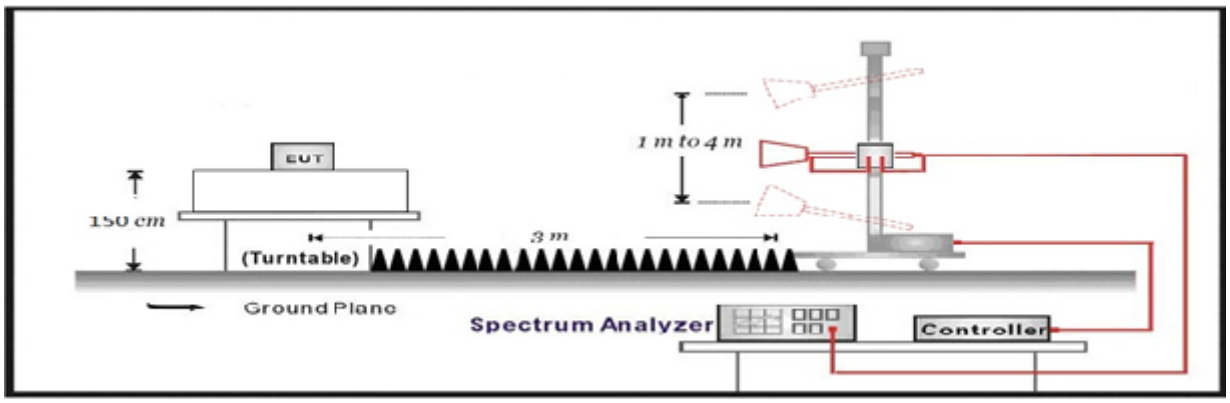
	References Rule	Chapter	Description
☒	ANSI C63.10	7.8	Evaluation of frequency-hopping device parameters
	☒ ANSI C63.10	7.8.5	Output power test procedure for frequency-hopping spread-spectrum (FHSS) devices

4.2 Band edge measurements	VERDICT: PASS

4.2.1 Limit

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



4.2.3 Test Procedure

Test Method

	References Rule		Chapter	Description
☐	DA 00-705		N/A	duty cycle correction factor
☒	ANSI C63.10		6.10	Band-edge testing
	☒	ANSI C63.10	6.10.5	Restricted-band band-edge measurements
	☐	ANSI C63.10	6.10.6	Marker-delta method
☐	ANSI C63.10		6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
☐	ANSI C63.10		6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
☐	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			

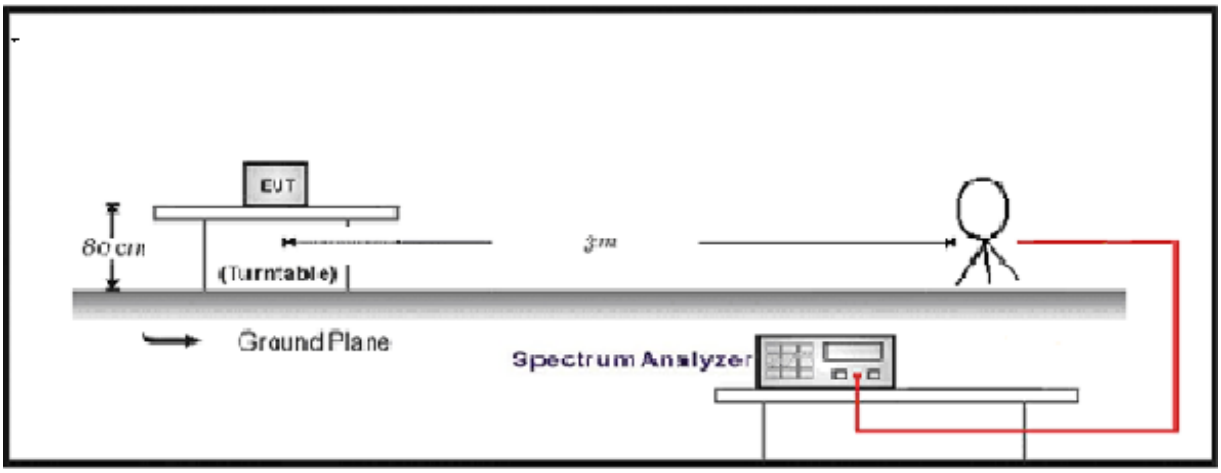
Restricted Band Emissions Limit			
FCC Part 15 Subpart C Paragraph 15.209			
Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30(Note 1)
1.705 - 30	30	29.5	30(Note 1)
30 - 88	100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

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).

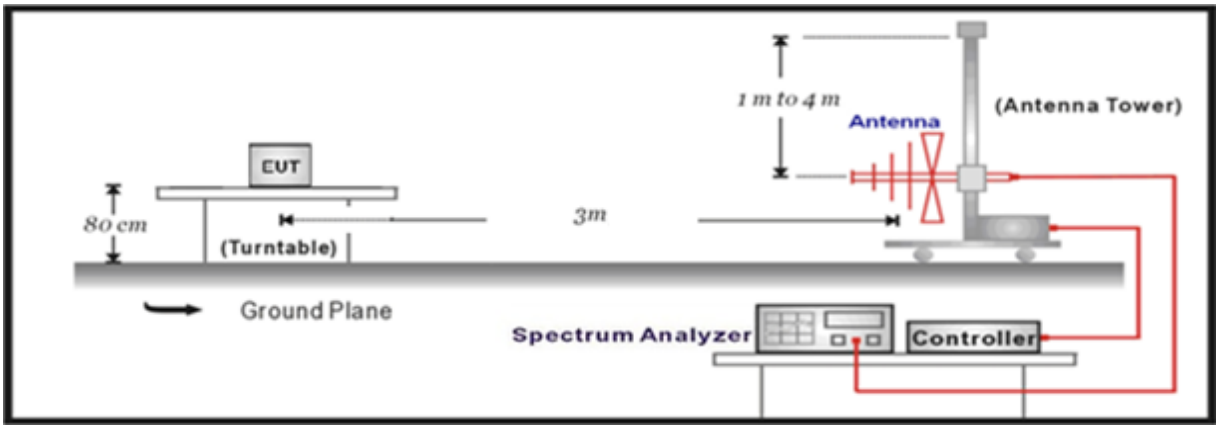
Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated 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

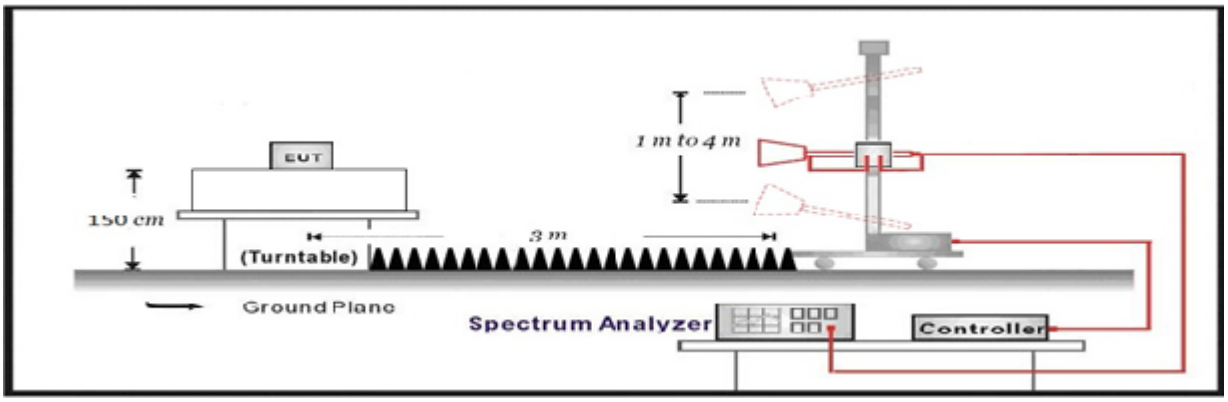
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.3.3 Test Procedure					
	References Rule			Chapter	Description
☒	ANSI C63.10			11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10		11.12.1	Radiated emission measurements
	☒	ANSI C63.10		11.12.2.7	Radiated spurious emission test
		☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
		☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
		☒	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 15.247(d) ,15.209
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:	
☒	The use of a permanently attached antenna
☐	The antenna use of a unique coupling to the intentional radiator
☐	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.

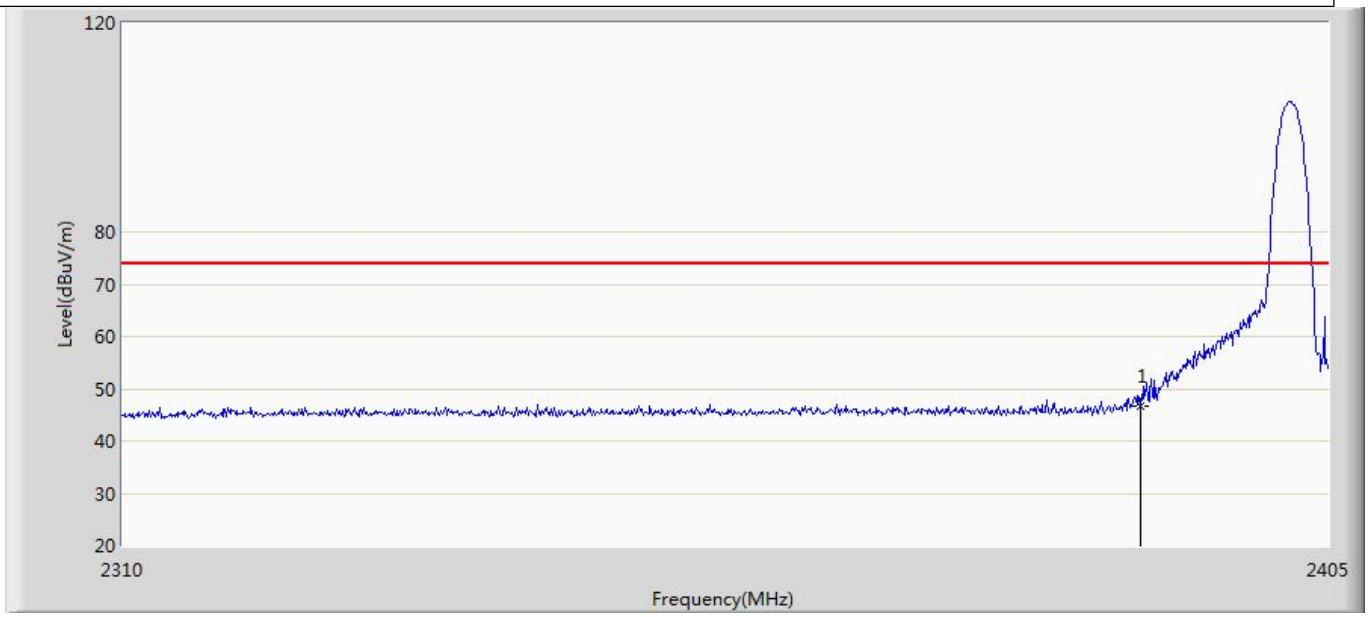
6 TEST RESULT

Appendix A: RF Output Power

Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
Mode 1	00	2402	6.54	≤20.66	9.02	≤36	Pass
	39	2441	6.38	≤20.66	8.86	≤36	Pass
	78	2480	6.41	≤20.66	8.89	≤36	Pass
Mode 3	00	2402	6.24	≤20.66	8.72	≤36	Pass
	39	2441	6.22	≤20.66	8.70	≤36	Pass
	78	2480	6.30	≤20.66	8.78	≤36	Pass
Note 1: EIRP = Conducted power + Antenna gain Note 2: Please refer to callus 1.2 for antanna gian.							

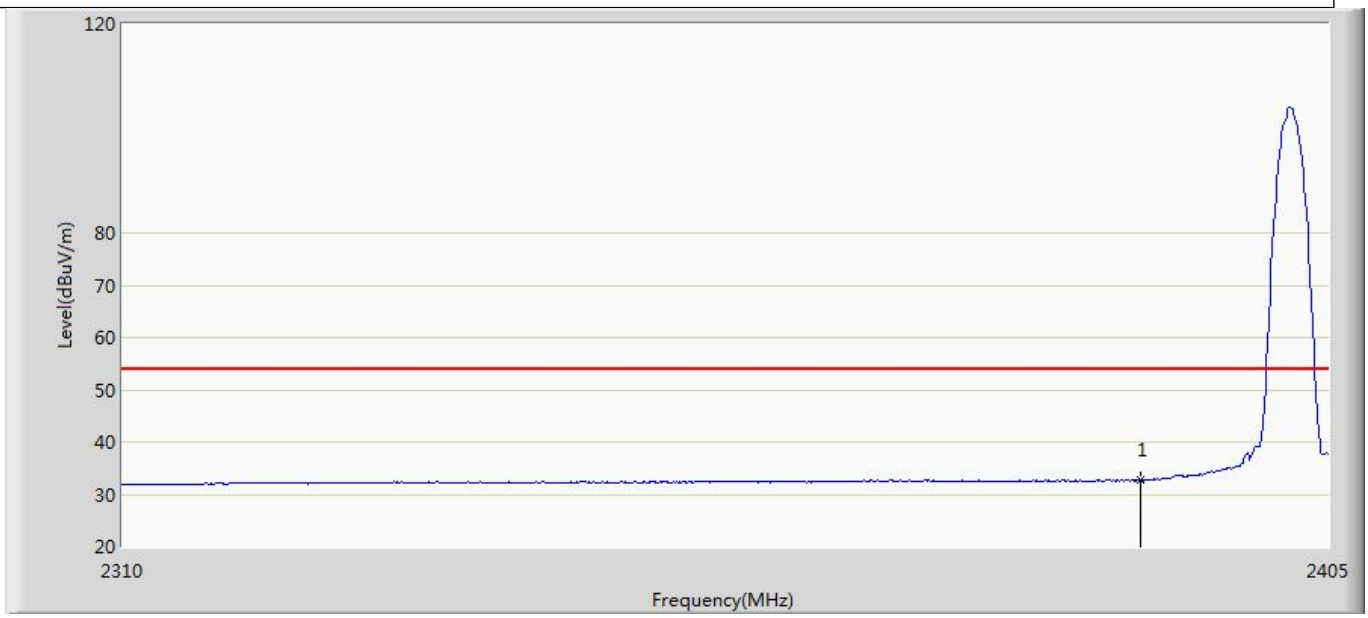
Appendix B: Band edge measurements

Profile: 2410620R	Page No.: 1
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 2402MHz by DH5	



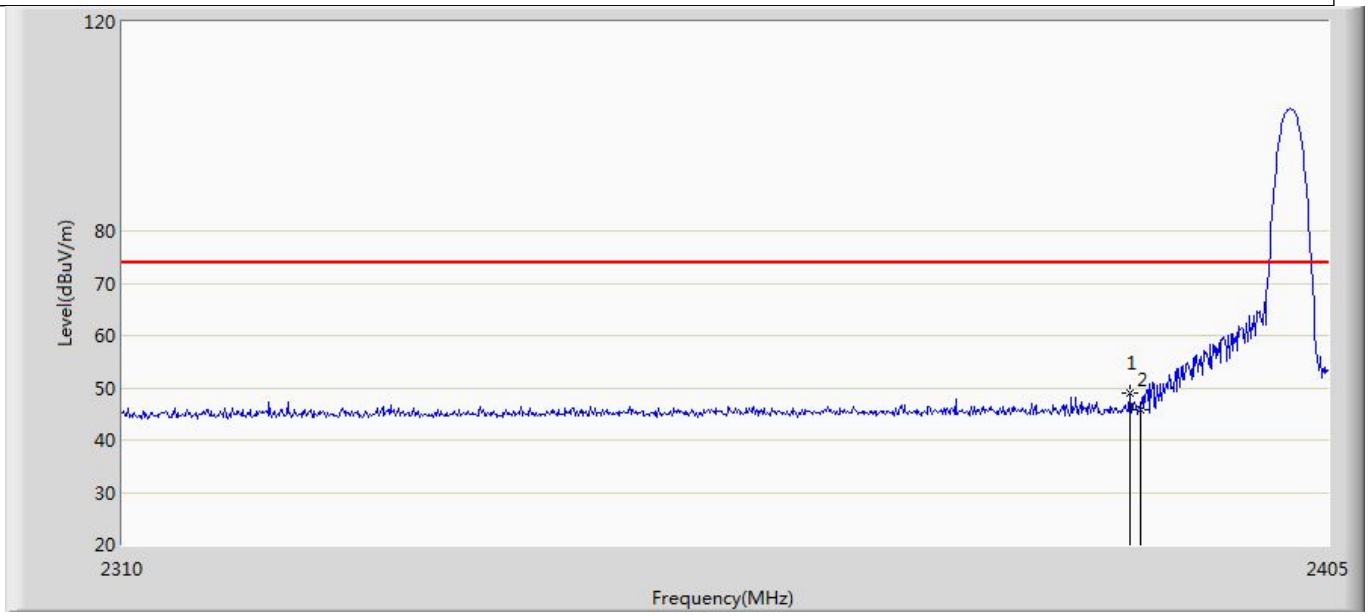
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	46.624	12.473	-27.376	74.000	34.151	PK

Profile: 2410620R	Page No.: 2
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 1：Transmit at 2402MHz by DH5	



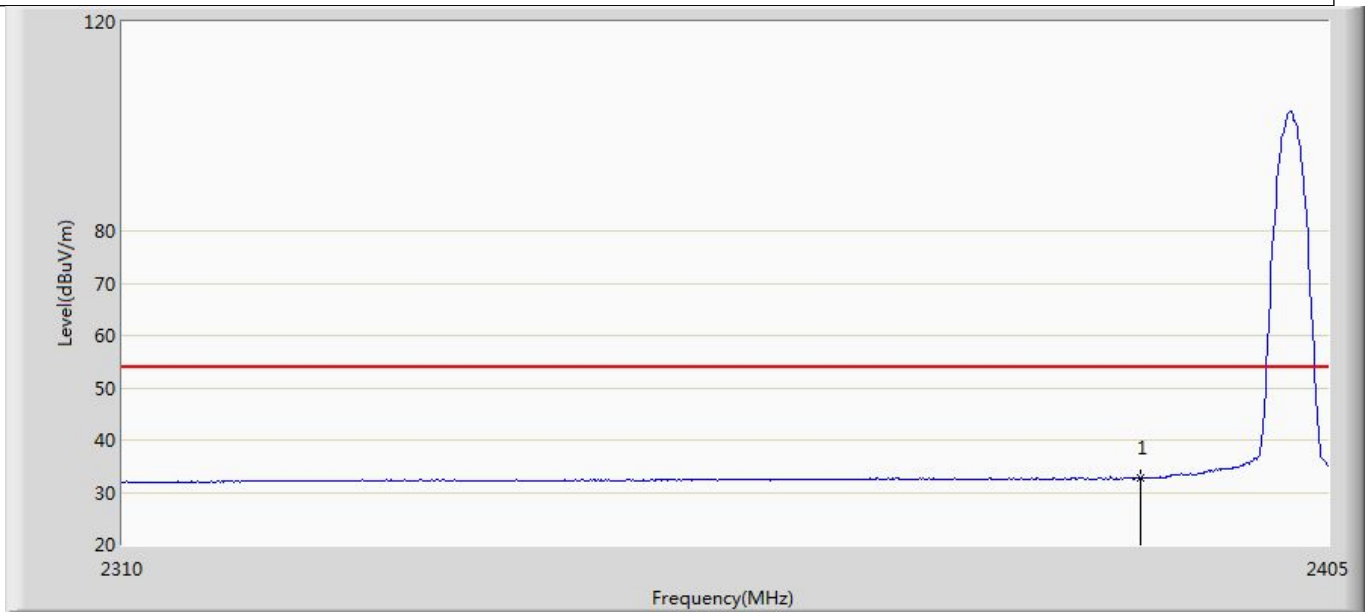
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	32.805	-1.346	-21.195	54.000	34.151	AV

Profile: 2410620R	Page No.: 3
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 1：Transmit at 2402MHz by DH5	



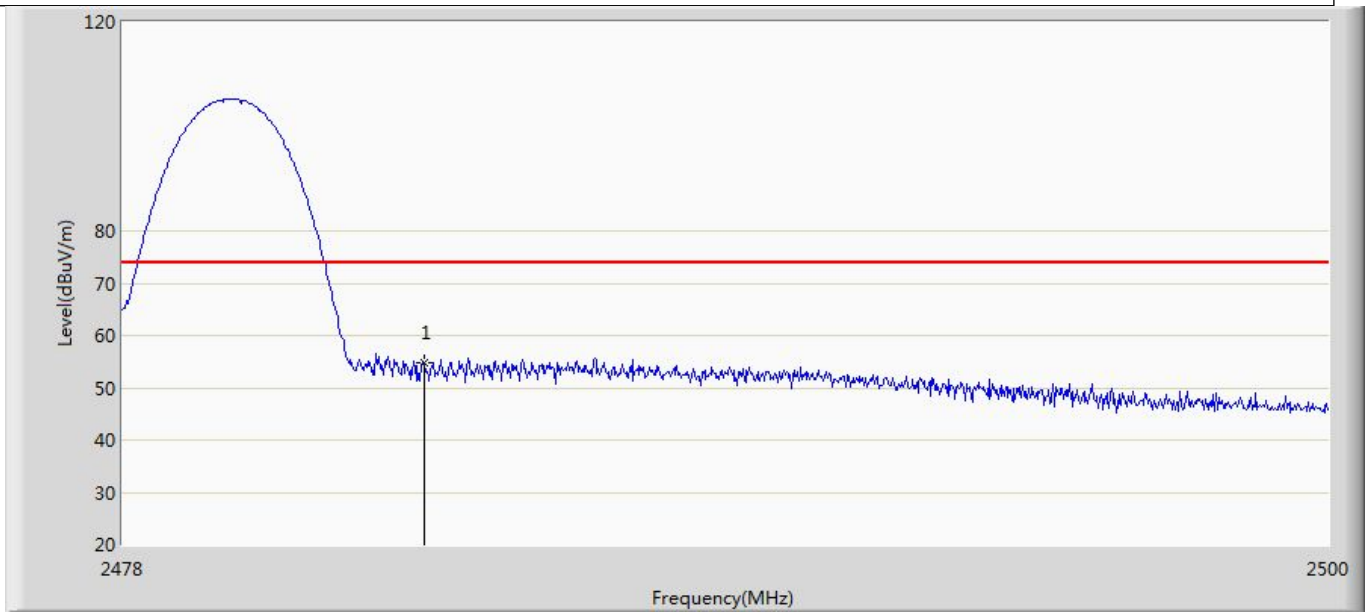
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2389.135	49.103	14.956	-24.897	74.000	34.147	PK
2		2390.000	45.735	11.584	-28.265	74.000	34.151	PK

Profile: 2410620R	Page No.: 4
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 1：Transmit at 2402MHz by DH5	



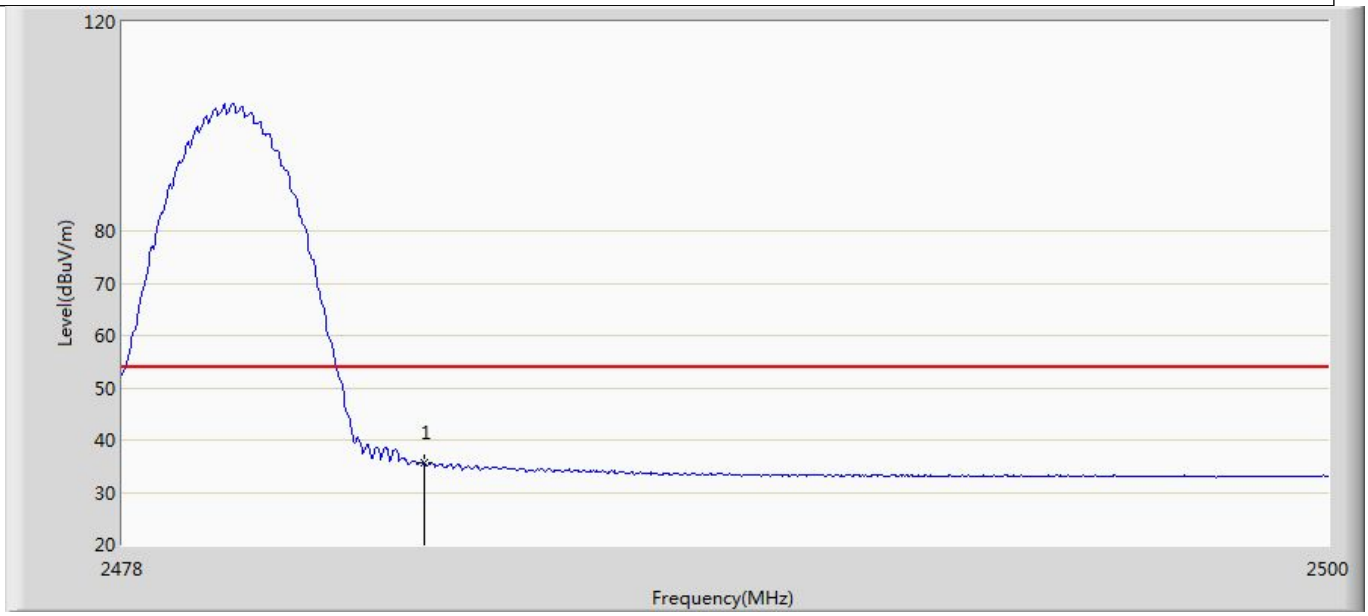
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	32.863	-1.288	-21.137	54.000	34.151	AV

Profile: 2410620R	Page No.: 5
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 1：Transmit at 2480MHz by DH5	



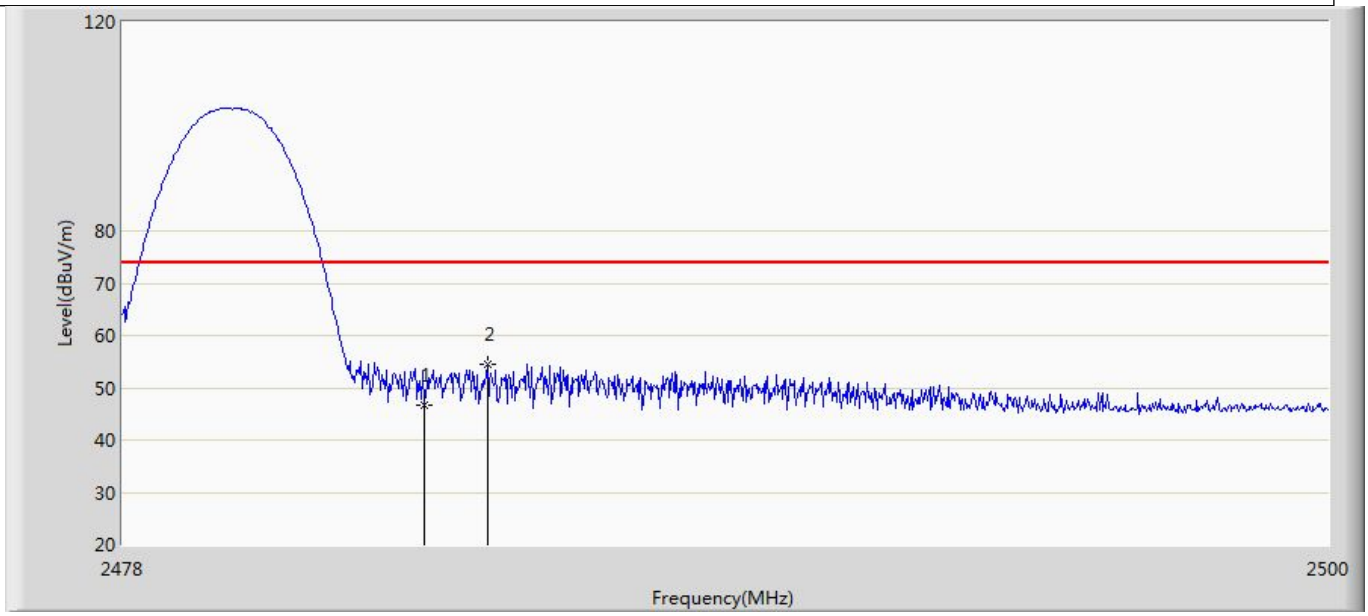
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	54.768	20.312	-19.232	74.000	34.456	PK

Profile: 2410620R	Page No.: 6
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 1：Transmit at 2480MHz by DH5	



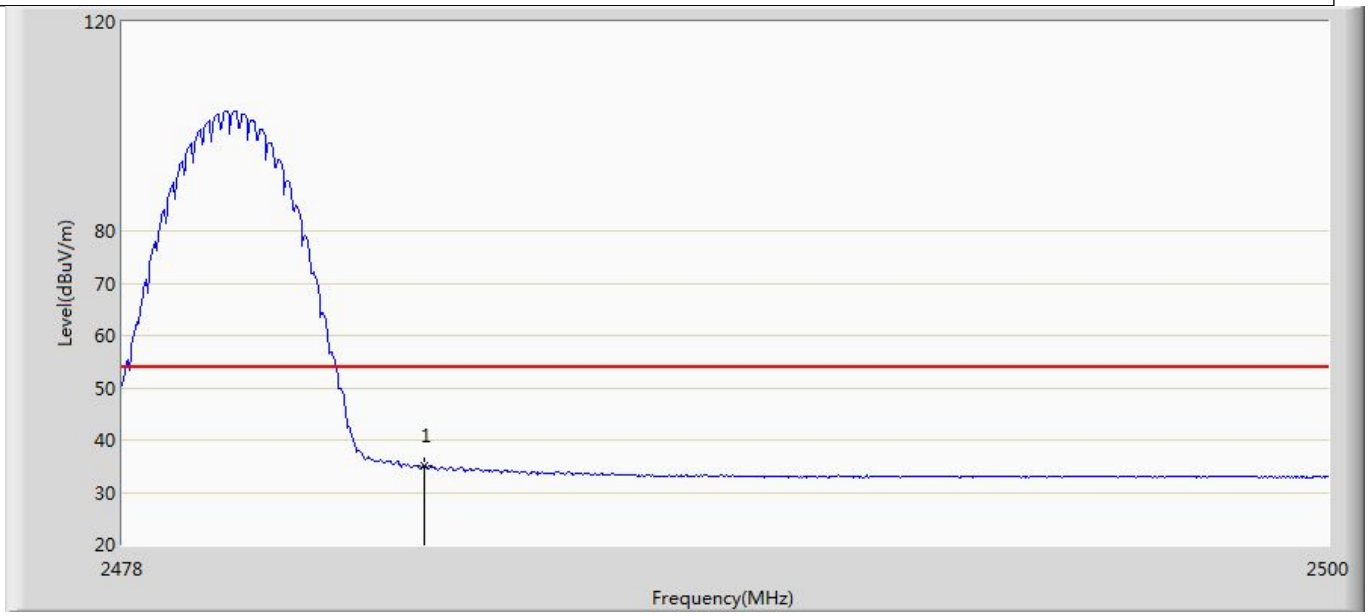
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	35.650	1.194	-18.350	54.000	34.456	AV

Profile: 2410620R	Page No.: 7
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 1：Transmit at 2480MHz by DH5	



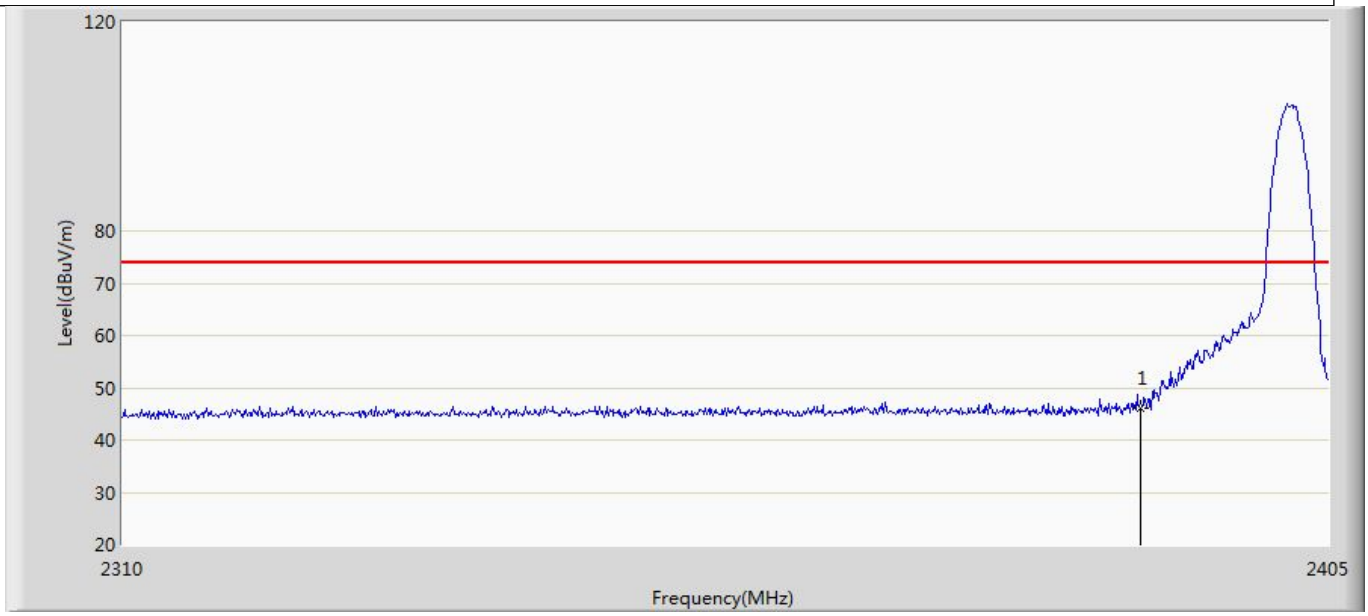
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	46.565	12.109	-27.435	74.000	34.456	PK
2	*	2484.644	54.597	20.129	-19.403	74.000	34.469	PK

Profile: 2410620R	Page No.: 8
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 1：Transmit at 2480MHz by DH5	



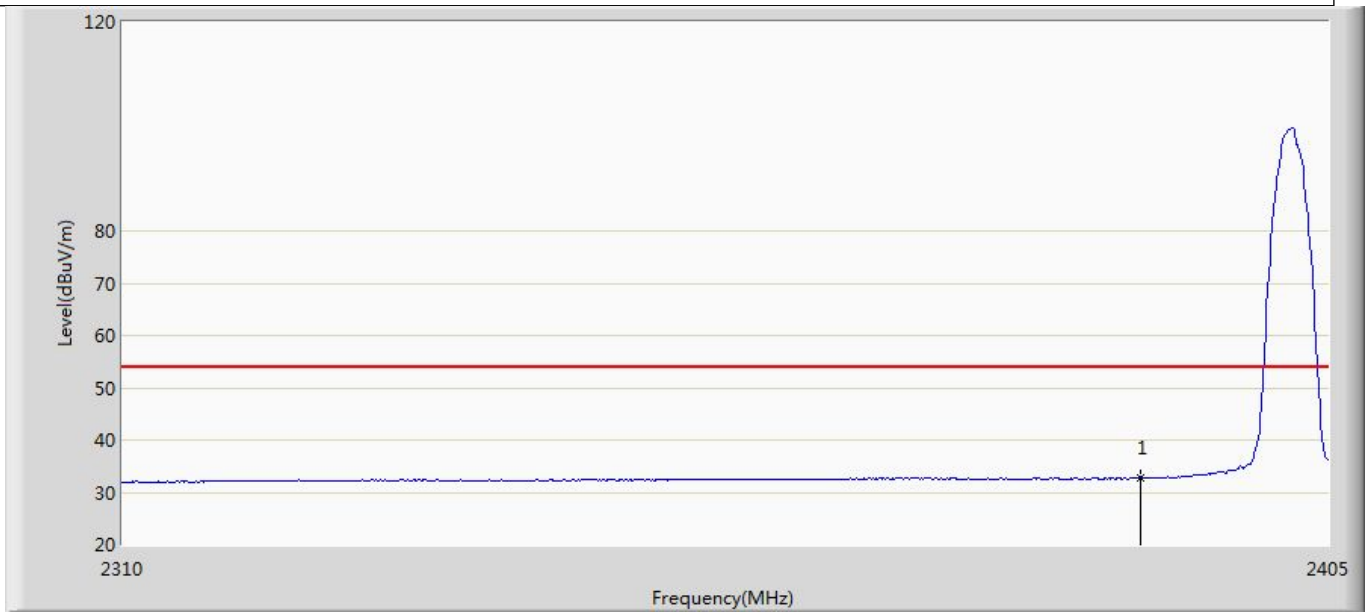
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	35.008	0.552	-18.992	54.000	34.456	AV

Profile: 2410620R	Page No.: 9
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 2：Transmit at 2402MHz by 2DH5	



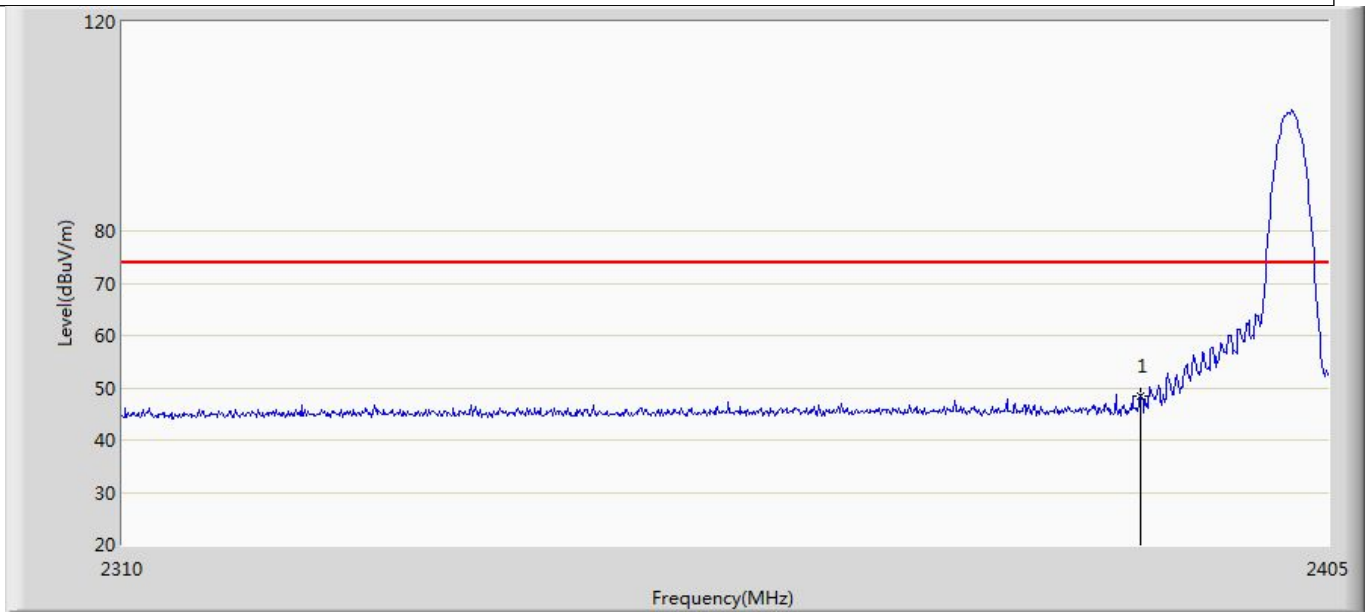
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	46.217	12.066	-27.783	74.000	34.151	PK

Profile: 2410620R	Page No.: 10
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 2：Transmit at 2402MHz by 2DH5	



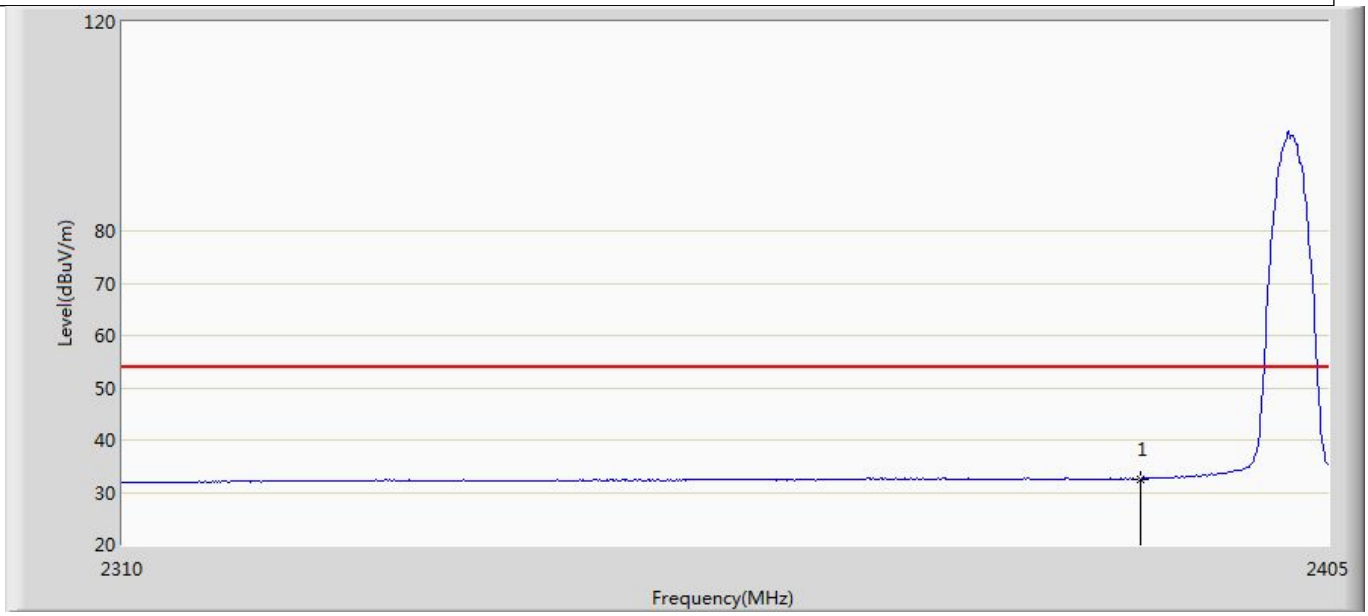
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	32.897	-1.254	-21.103	54.000	34.151	AV

Profile: 2410620R	Page No.: 11
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 2：Transmit at 2402MHz by 2DH5	



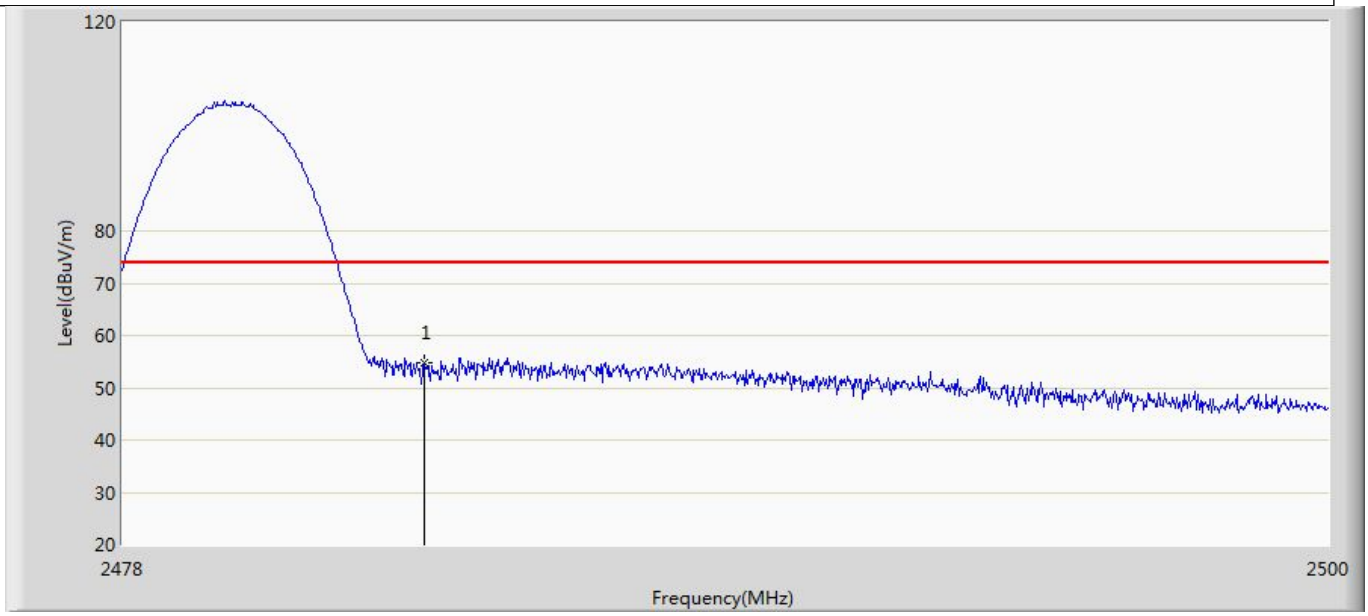
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	48.493	14.342	-25.507	74.000	34.151	PK

Profile: 2410620R	Page No.: 12
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 2：Transmit at 2402MHz by 2DH5	



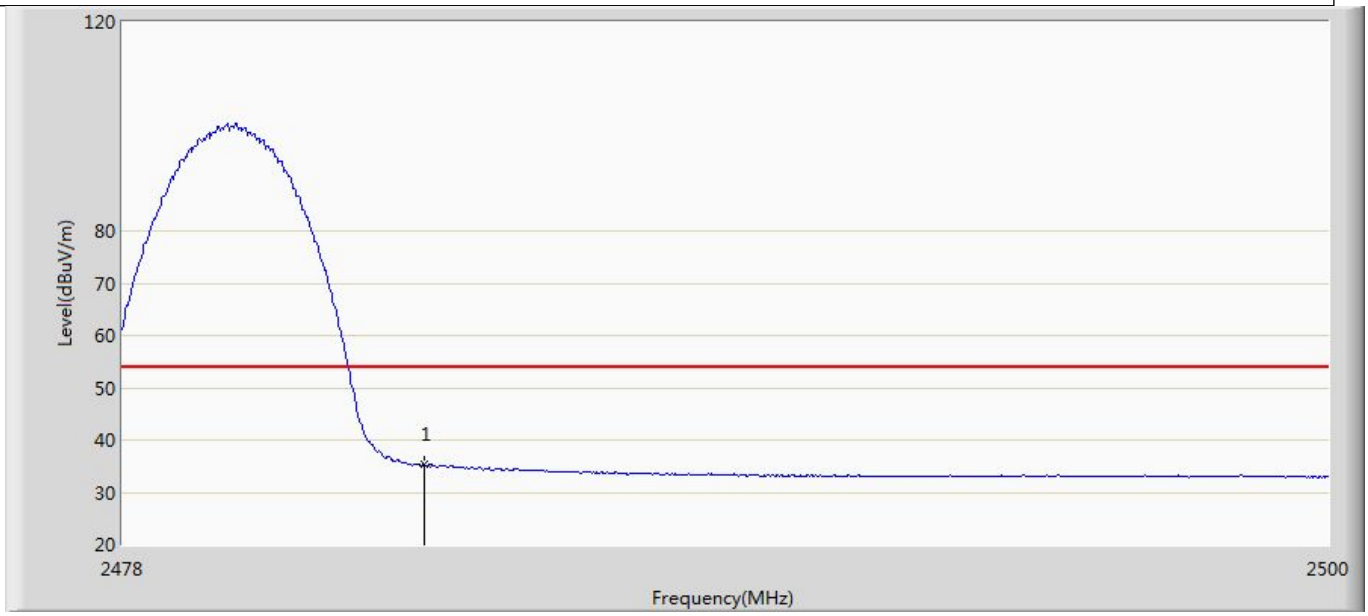
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	32.557	-1.594	-21.443	54.000	34.151	AV

Profile: 2410620R	Page No.: 13
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 2：Transmit at 2480MHz by 2DH5	



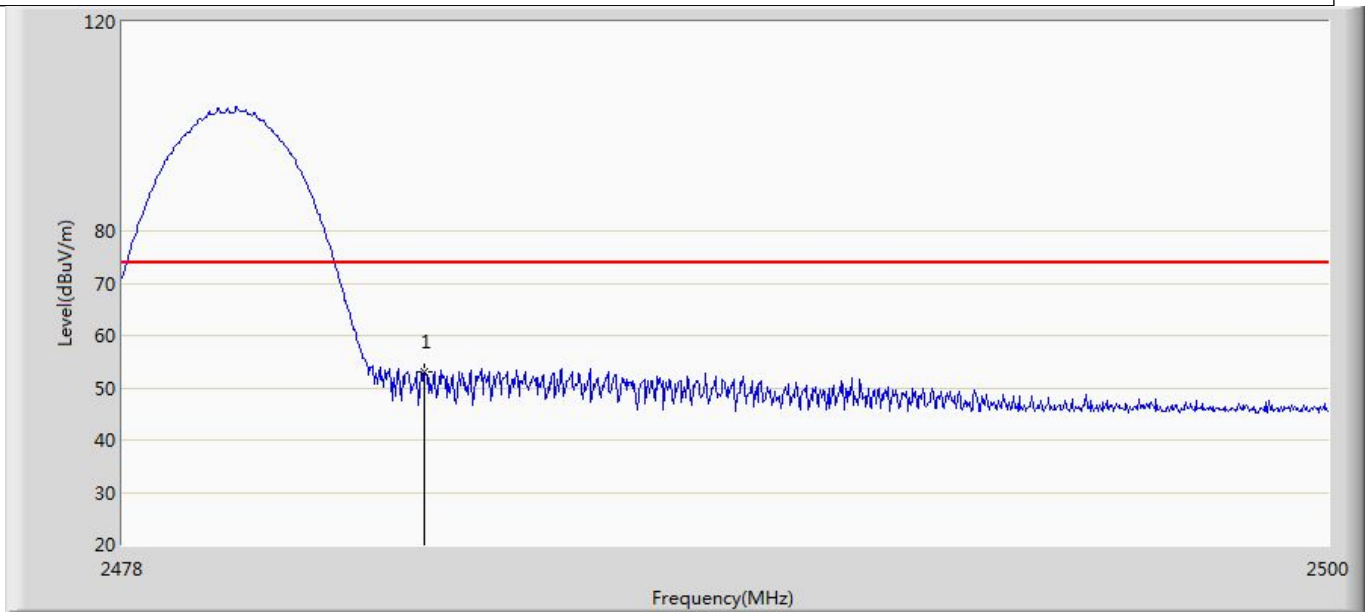
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	54.848	20.392	-19.152	74.000	34.456	PK

Profile: 2410620R	Page No.: 14
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 2：Transmit at 2480MHz by 2DH5	



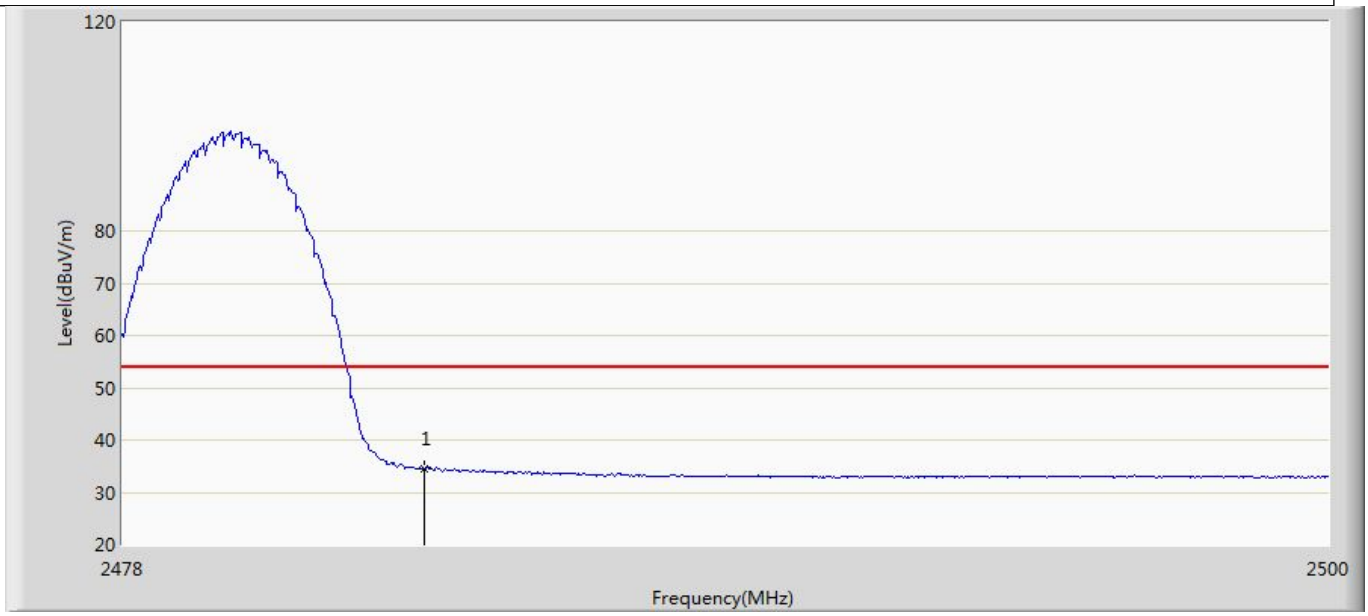
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	35.251	0.795	-18.749	54.000	34.456	AV

Profile: 2410620R	Page No.: 15
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 2：Transmit at 2480MHz by 2DH5	



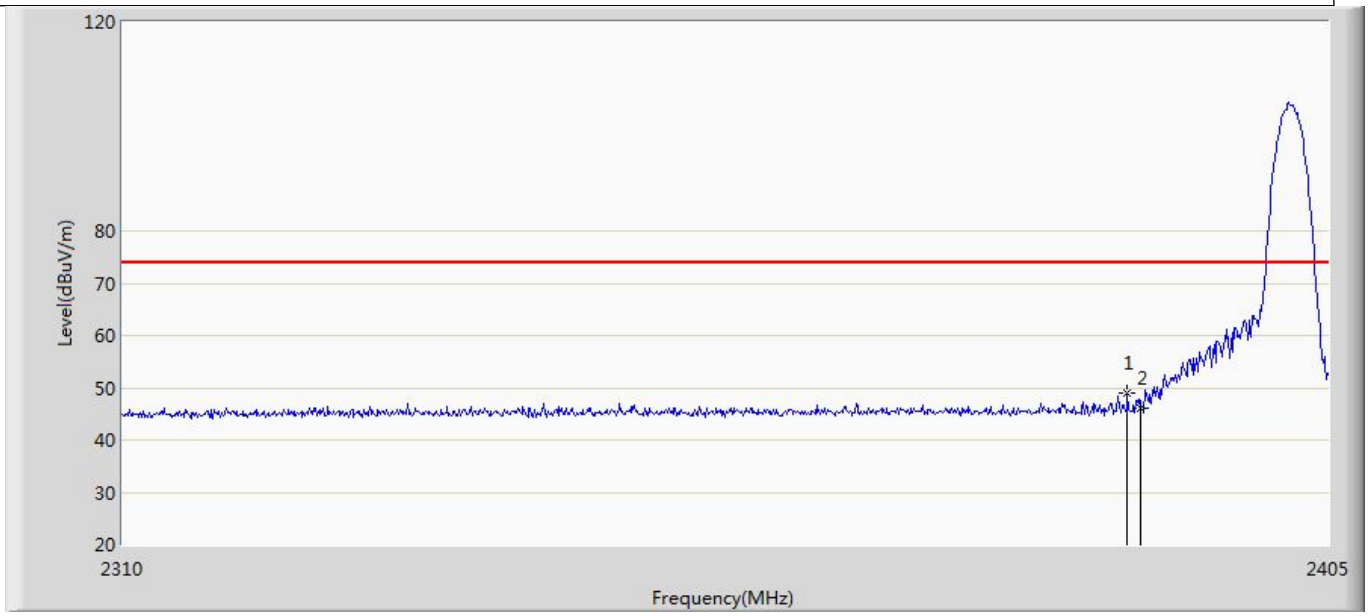
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	53.019	18.563	-20.981	74.000	34.456	PK

Profile: 2410620R	Page No.: 16
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 2：Transmit at 2480MHz by 2DH5	



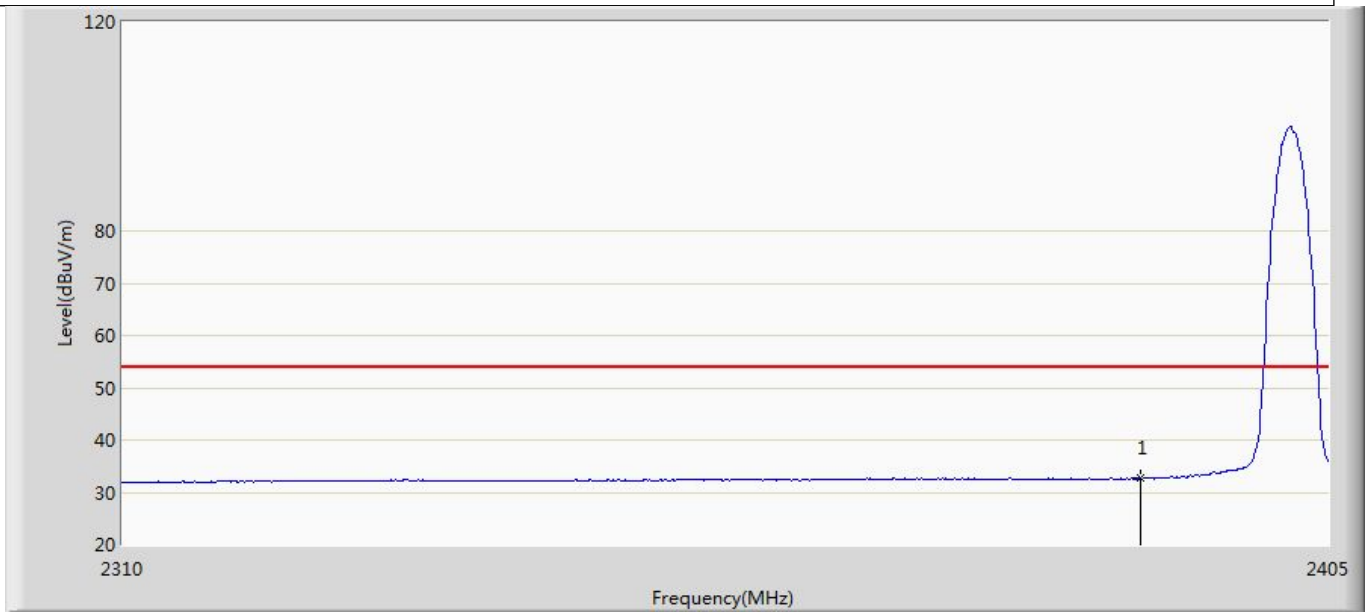
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	34.476	0.020	-19.524	54.000	34.456	AV

Profile: 2410620R	Page No.: 17
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 3：Transmit at 2402MHz by 3DH5	



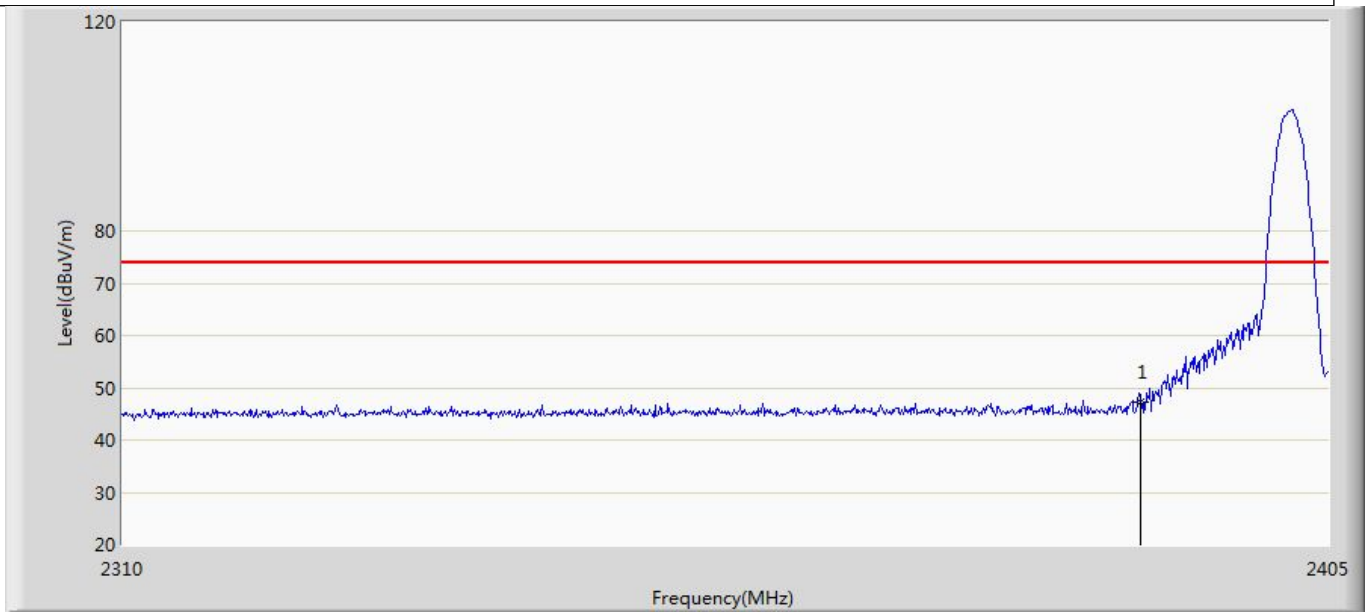
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2388.945	48.963	14.817	-25.037	74.000	34.146	PK
2		2390.000	46.158	12.007	-27.842	74.000	34.151	PK

Profile: 2410620R	Page No.: 18
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 3：Transmit at 2402MHz by 3DH5	



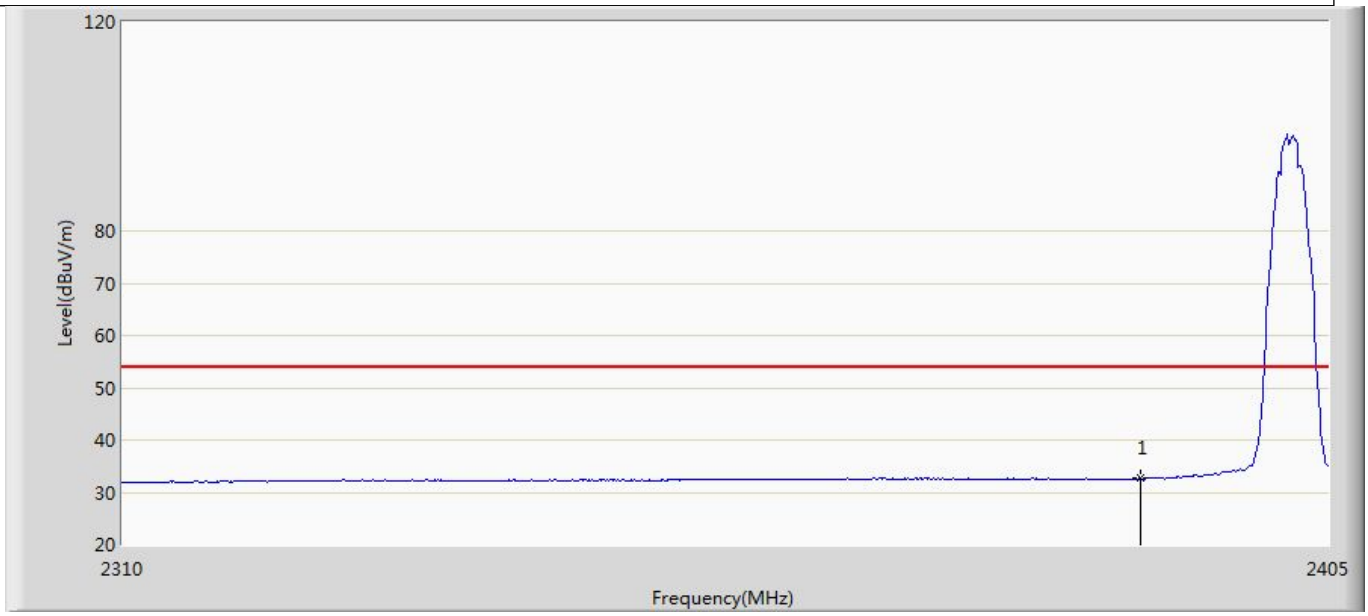
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	32.695	-1.456	-21.305	54.000	34.151	AV

Profile: 2410620R	Page No.: 19
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 3：Transmit at 2402MHz by 3DH5	



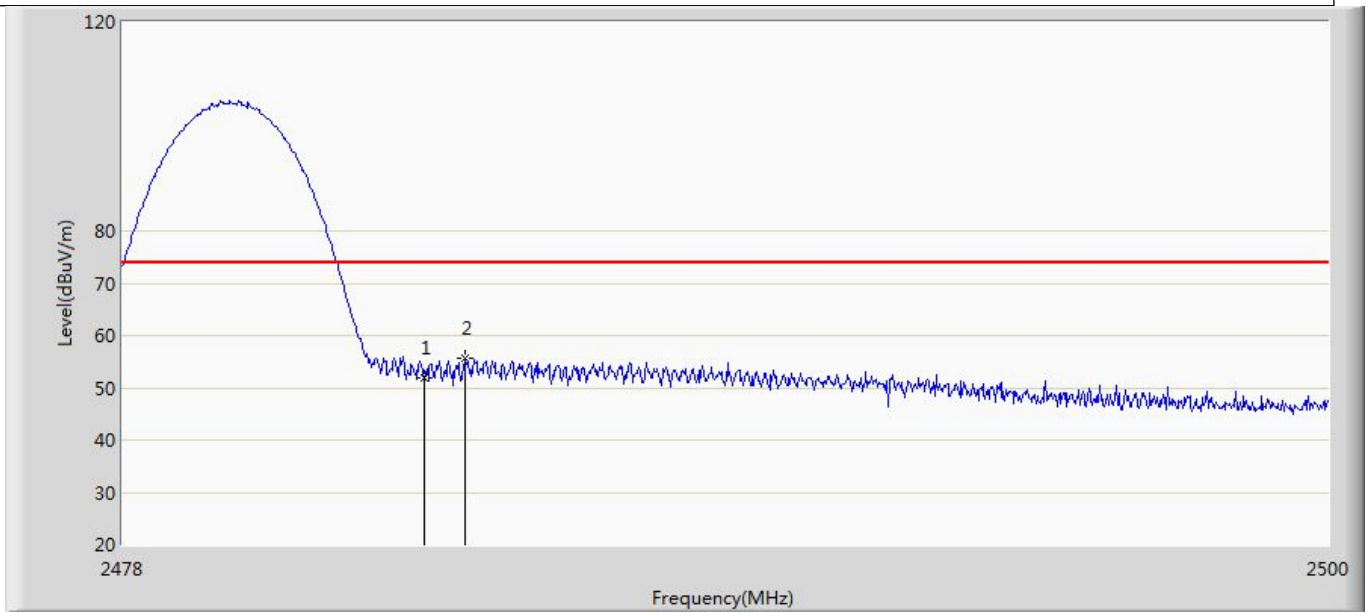
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	47.363	13.212	-26.637	74.000	34.151	PK

Profile: 2410620R	Page No.: 20
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 3：Transmit at 2402MHz by 3DH5	



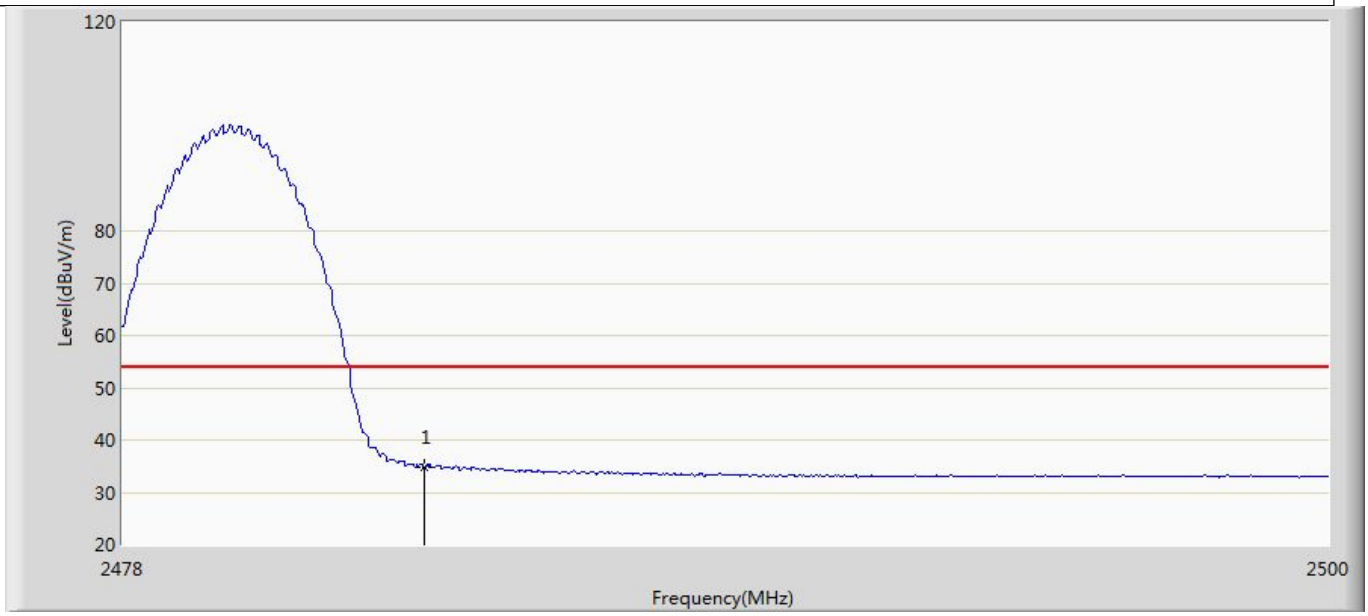
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	32.776	-1.375	-21.224	54.000	34.151	AV

Profile: 2410620R	Page No.: 21
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 3：Transmit at 2480MHz by 3DH5	



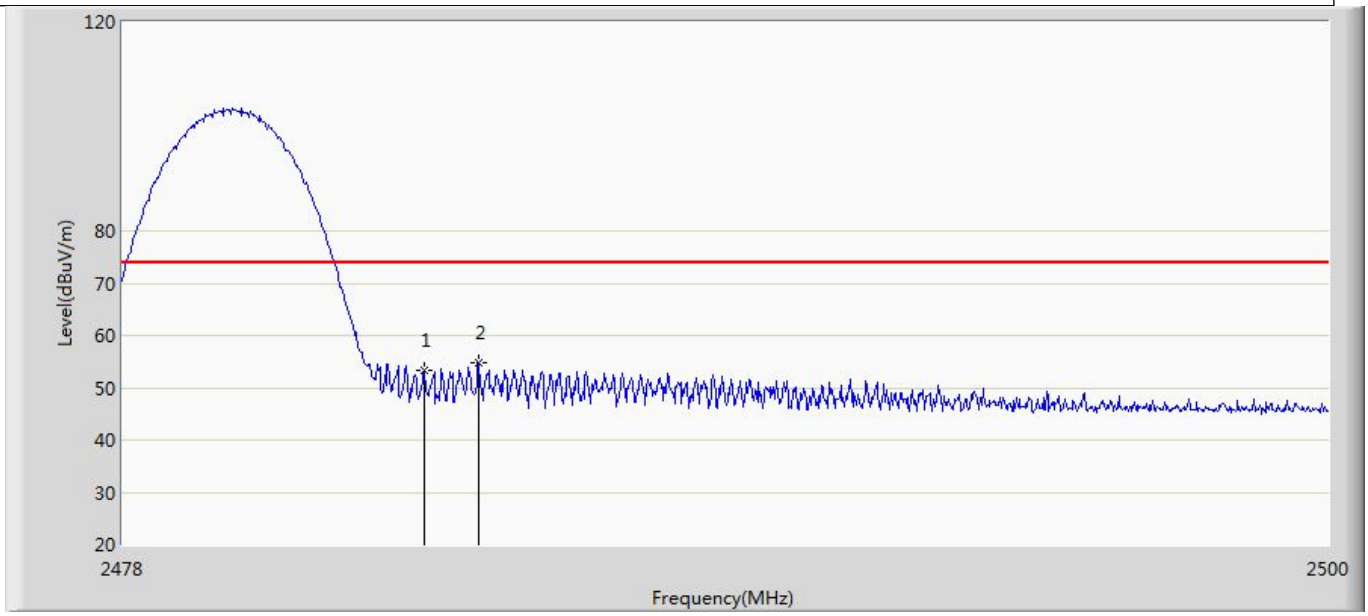
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	51.871	17.415	-22.129	74.000	34.456	PK
2	*	2484.248	55.516	21.052	-18.484	74.000	34.464	PK

Profile: 2410620R	Page No.: 22
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 3：Transmit at 2480MHz by 3DH5	



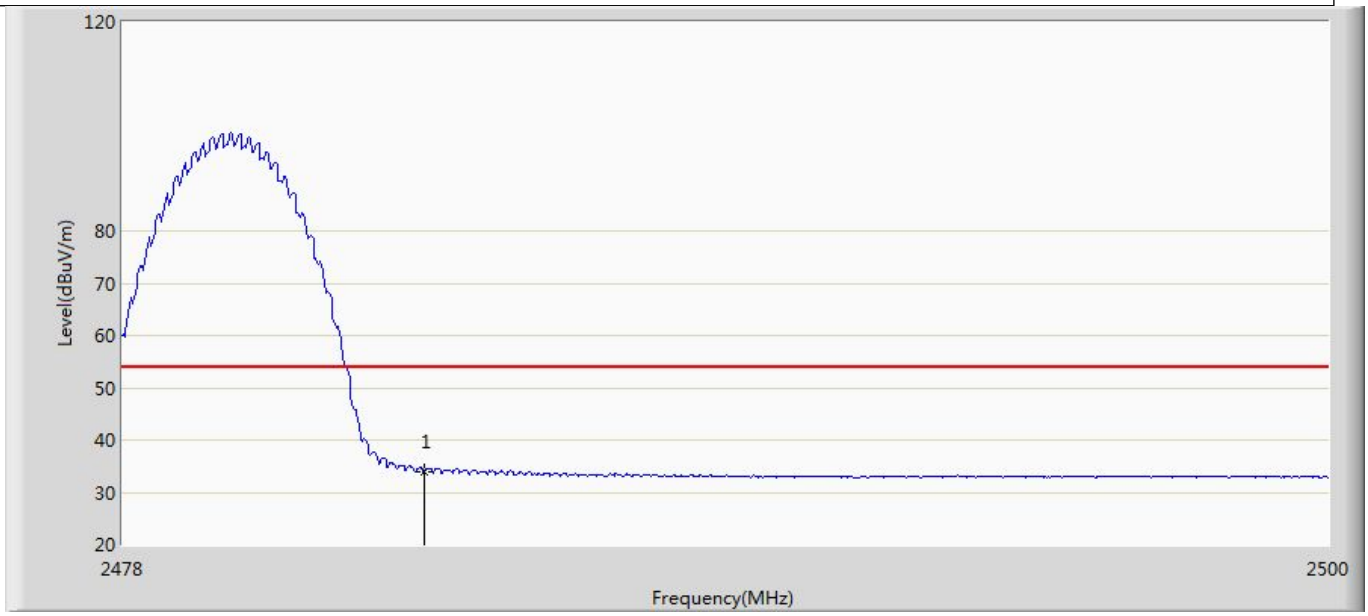
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	34.863	0.407	-19.137	54.000	34.456	AV

Profile: 2410620R	Page No.: 23
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 3：Transmit at 2480MHz by 3DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	53.365	18.909	-20.635	74.000	34.456	PK
2	*	2484.490	54.861	20.394	-19.139	74.000	34.467	PK

Profile: 2410620R	Page No.: 24
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/07 - 21:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 3：Transmit at 2480MHz by 3DH5	



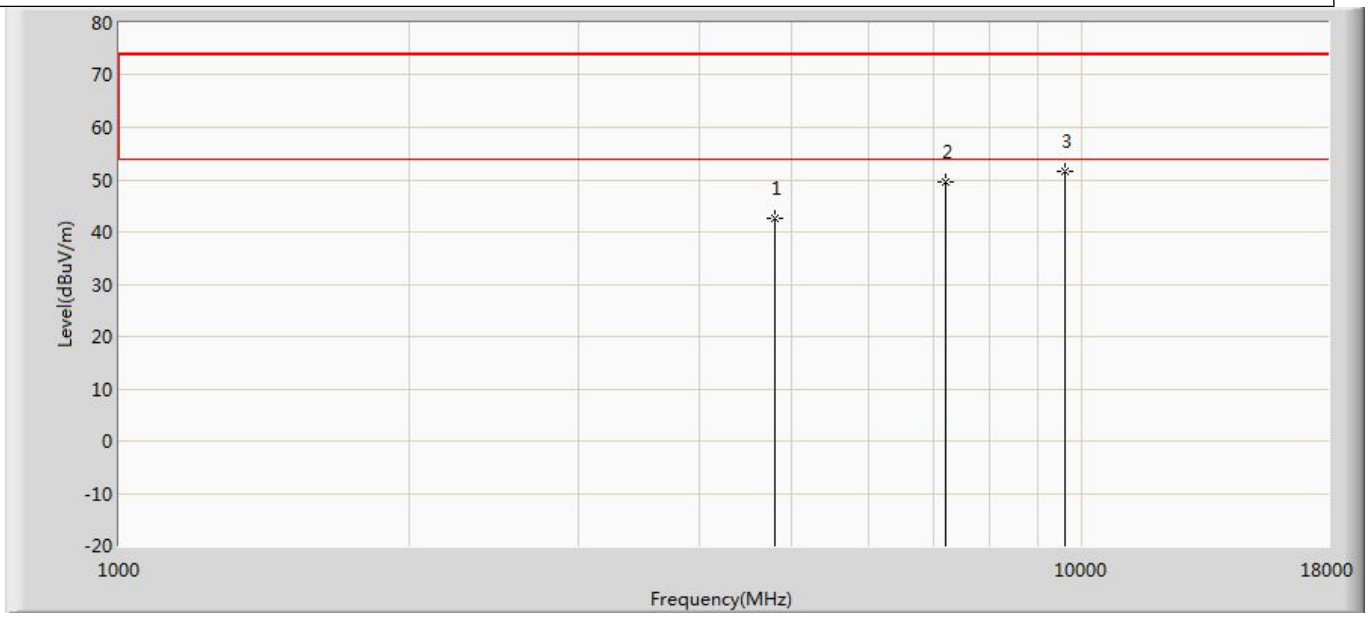
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	33.860	-0.596	-20.140	54.000	34.456	AV

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

2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp). Test Photograph.

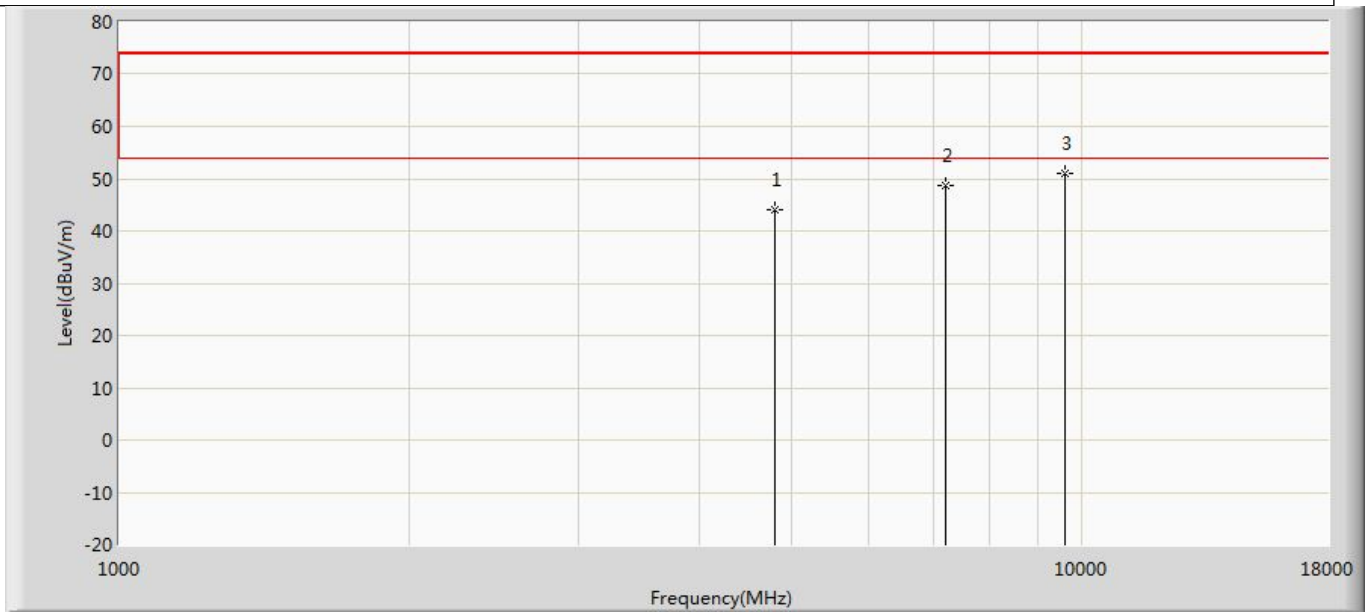
Appendix C: Emissions in Restricted Bands

Profile: 2410620R	Page No.: 19
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/08 - 13:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 1：Transmit at 2402MHz by DH5	



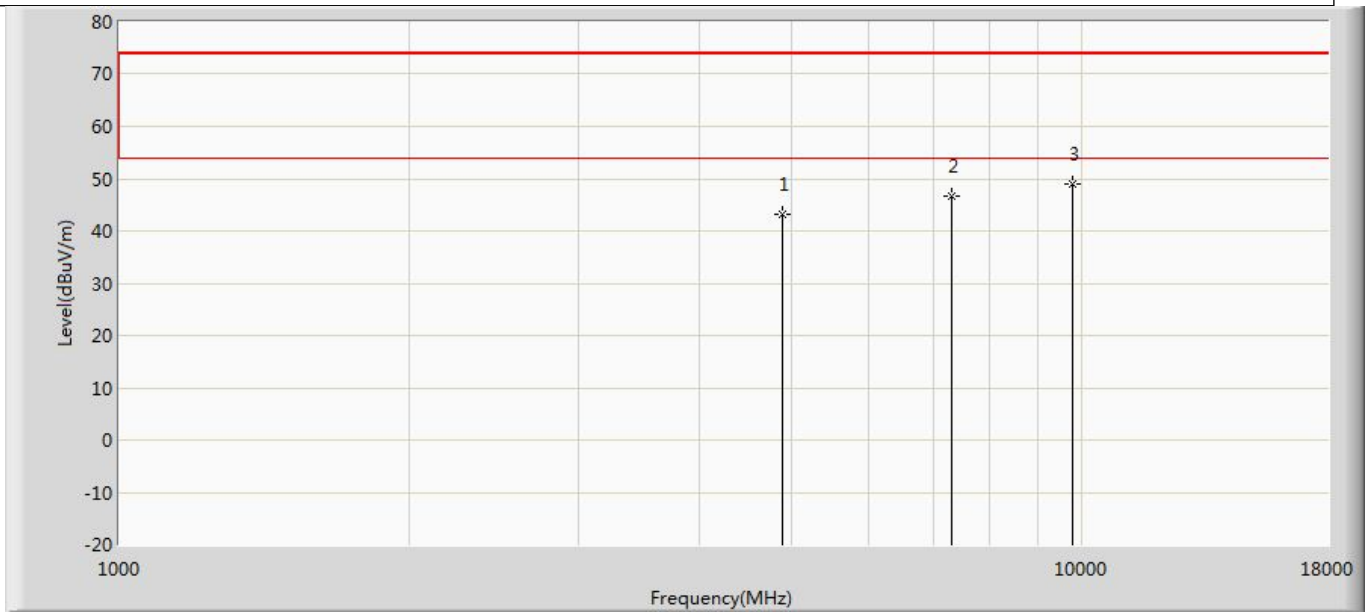
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	42.516	54.404	-31.484	74.000	-11.888	PK
2		7206.000	49.606	55.772	-24.394	74.000	-6.166	PK
3	*	9608.000	51.461	54.684	-22.539	74.000	-3.222	PK

Profile: 2410620R	Page No.: 20
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/08 - 13:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 1：Transmit at 2402MHz by DH5	



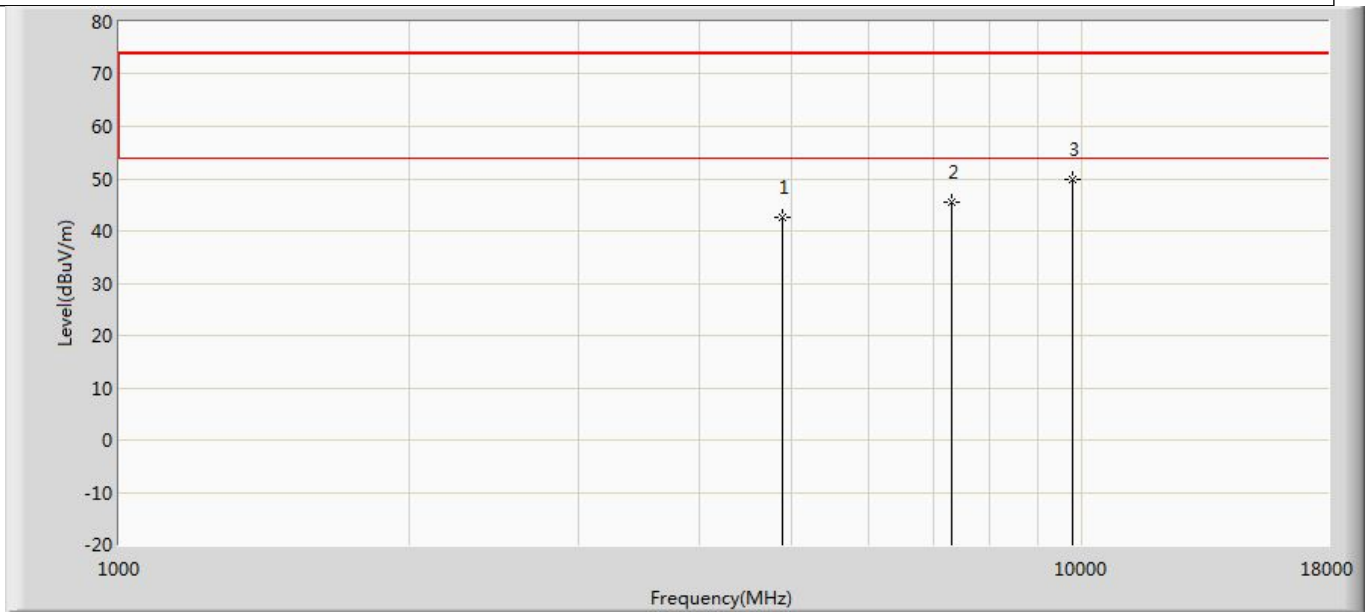
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	44.160	56.048	-29.840	74.000	-11.888	PK
2		7206.000	48.752	54.918	-25.248	74.000	-6.166	PK
3	*	9608.000	51.027	54.250	-22.973	74.000	-3.222	PK

Profile: 2410620R	Page No.: 21
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/08 - 13:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 1：Transmit at 2441MHz by DH5	



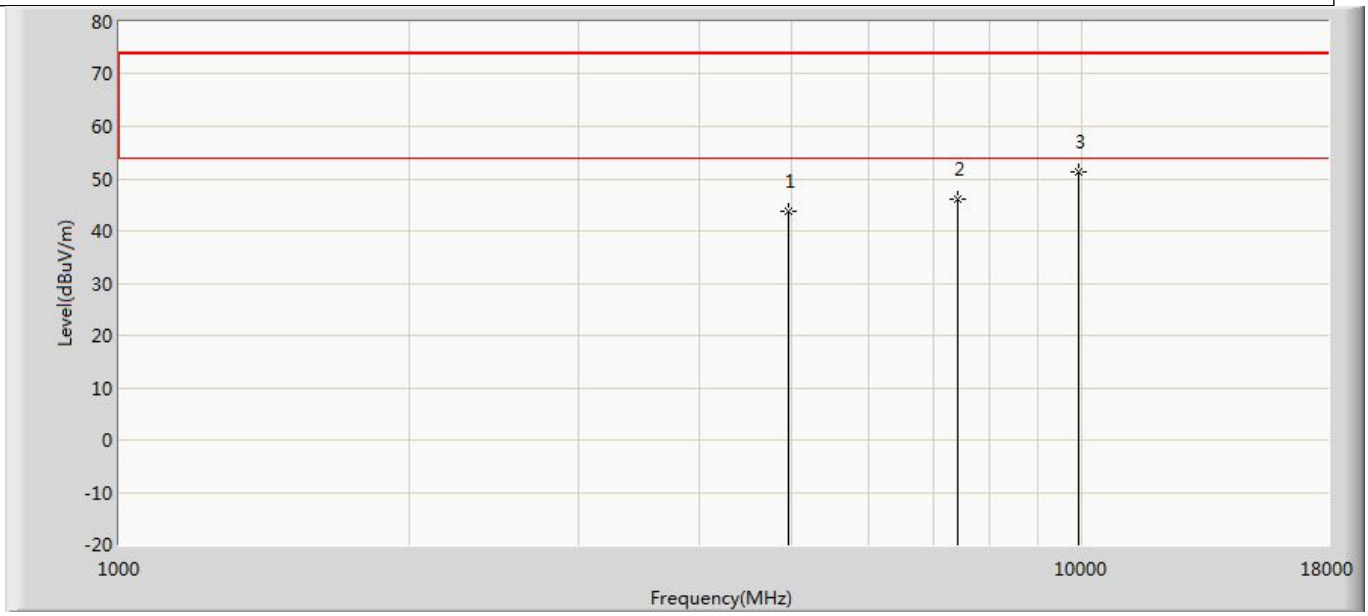
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	43.110	53.802	-30.890	74.000	-10.693	PK
2		7323.000	46.540	53.398	-27.460	74.000	-6.858	PK
3	*	9764.000	48.873	51.783	-25.127	74.000	-2.910	PK

Profile: 2410620R	Page No.: 22
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/08 - 13:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 1：Transmit at 2441MHz by DH5	



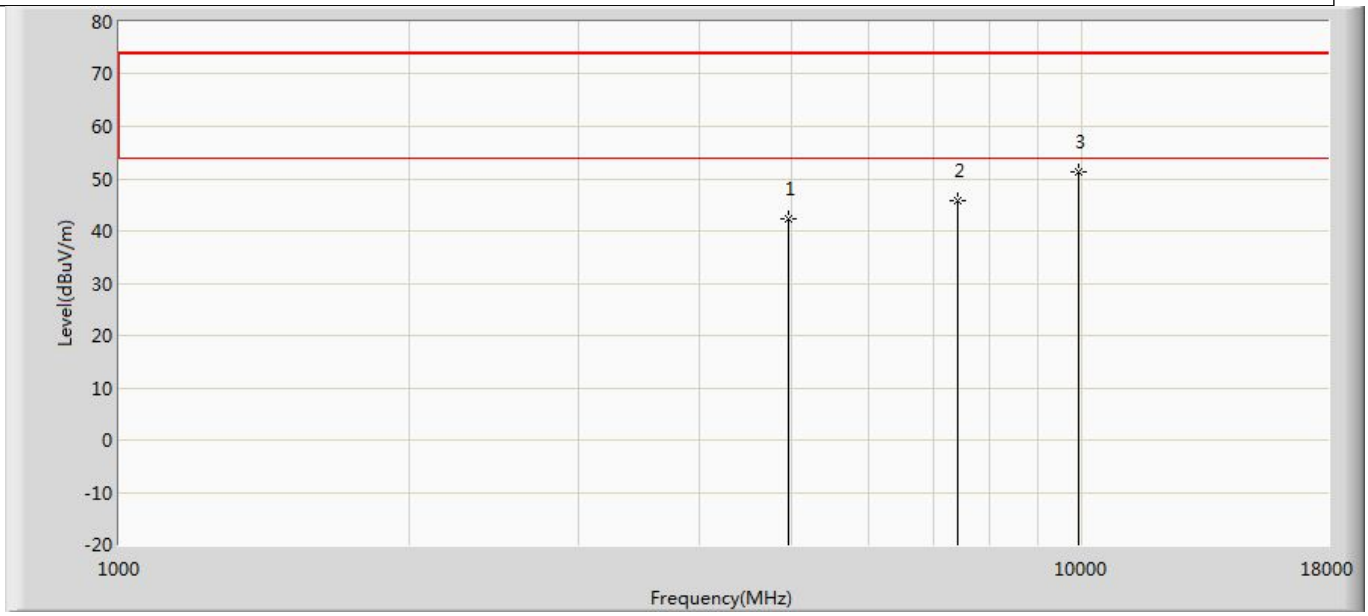
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	42.751	53.443	-31.249	74.000	-10.693	PK
2		7323.000	45.378	52.236	-28.622	74.000	-6.858	PK
3	*	9764.000	49.722	52.632	-24.278	74.000	-2.910	PK

Profile: 2410620R	Page No.: 23
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/08 - 13:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 1：Transmit at 2480MHz by DH5	



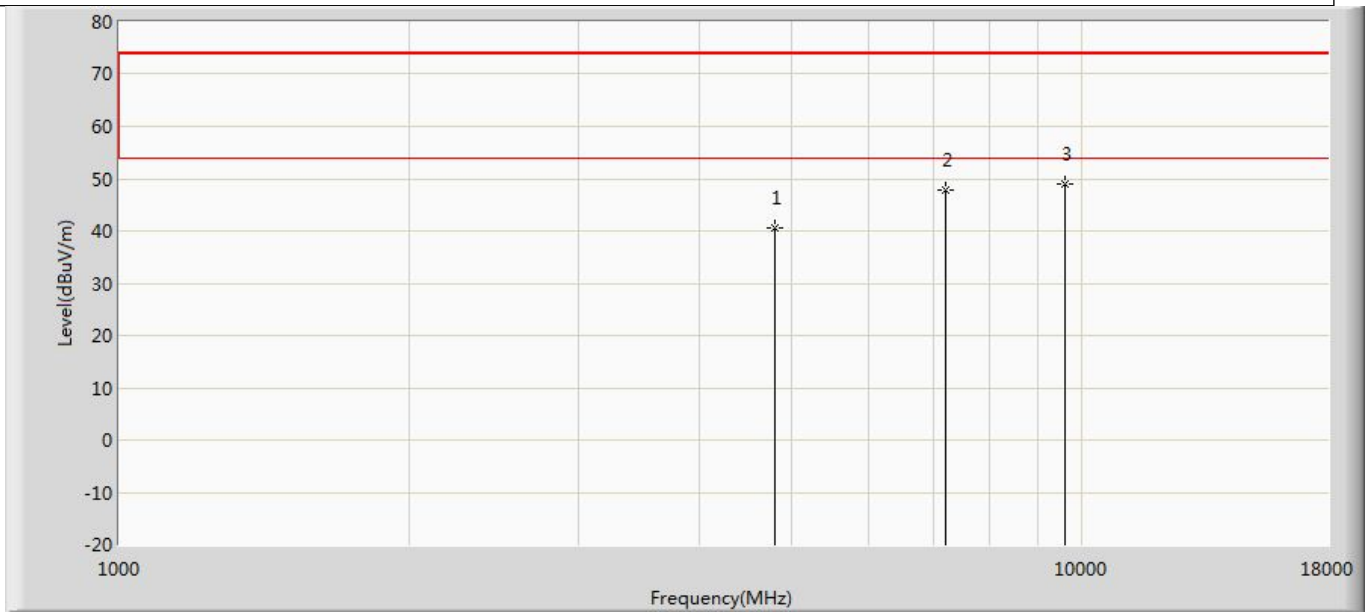
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	43.889	54.595	-30.111	74.000	-10.707	PK
2		7440.000	46.130	52.909	-27.870	74.000	-6.779	PK
3	*	9920.000	51.332	53.154	-22.668	74.000	-1.821	PK

Profile: 2410620R	Page No.: 24
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/08 - 13:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 1：Transmit at 2480MHz by DH5	



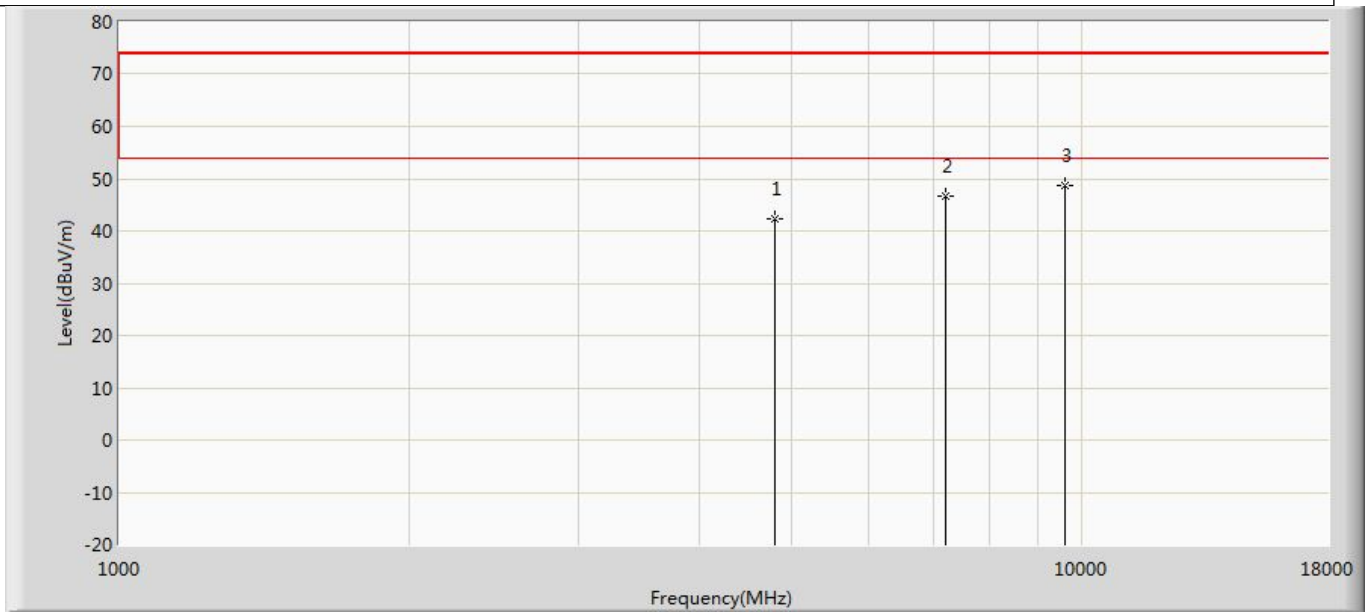
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	42.321	53.027	-31.679	74.000	-10.707	PK
2		7440.000	45.924	52.703	-28.076	74.000	-6.779	PK
3	*	9920.000	51.326	53.148	-22.674	74.000	-1.821	PK

Profile: 2410620R	Page No.: 25
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/08 - 13:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 2：Transmit at 2402MHz by 2DH5	



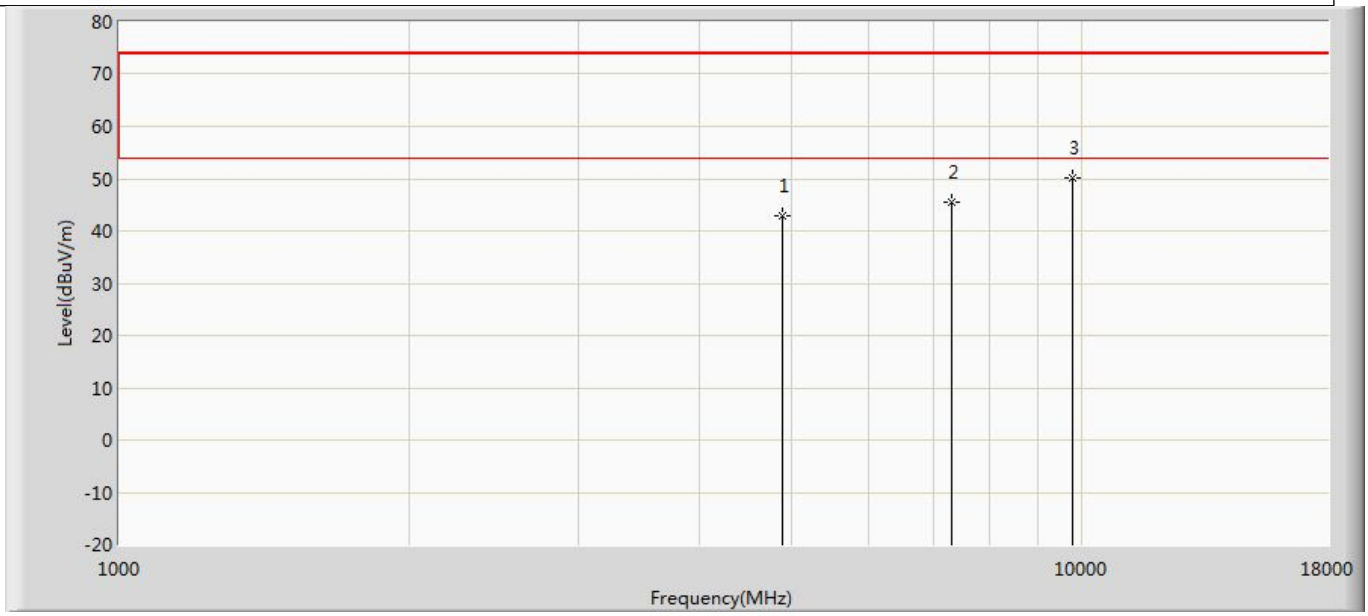
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	40.623	52.511	-33.377	74.000	-11.888	PK
2		7206.000	47.834	54.000	-26.166	74.000	-6.166	PK
3	*	9608.000	48.985	52.208	-25.015	74.000	-3.222	PK

Profile: 2410620R	Page No.: 26
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/08 - 13:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 2：Transmit at 2402MHz by 2DH5	



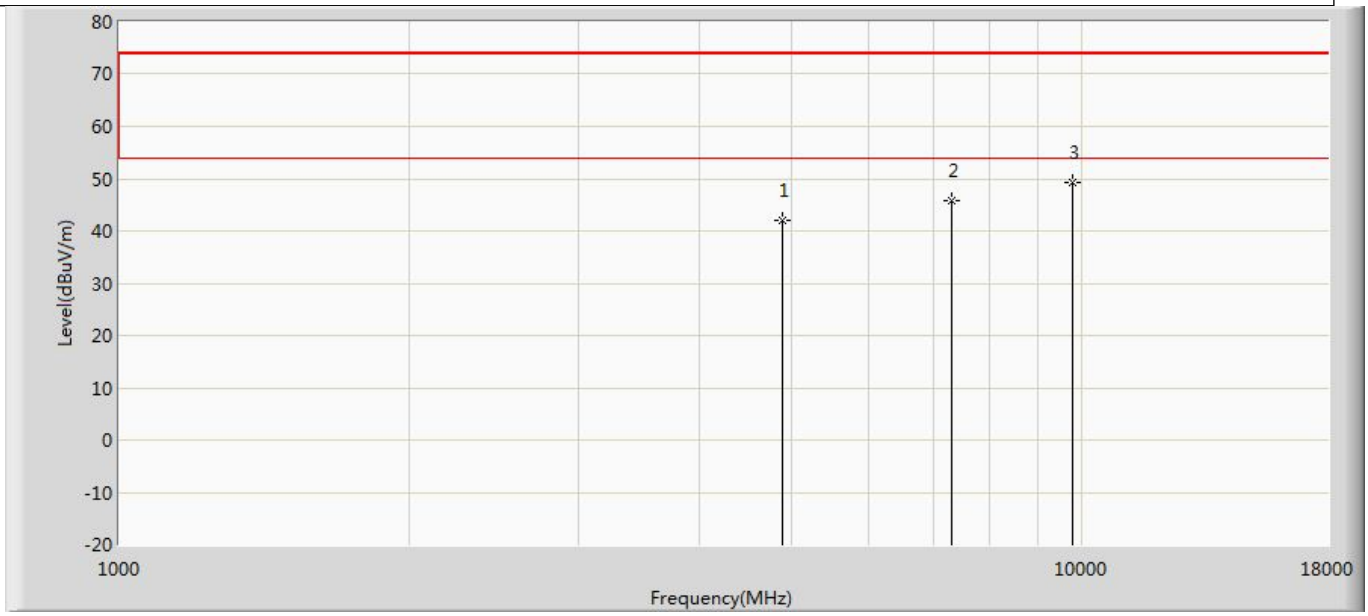
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	42.422	54.310	-31.578	74.000	-11.888	PK
2		7206.000	46.578	52.744	-27.422	74.000	-6.166	PK
3	*	9608.000	48.577	51.800	-25.423	74.000	-3.222	PK

Profile: 2410620R	Page No.: 27
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/08 - 13:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 2：Transmit at 2441MHz by 2DH5	



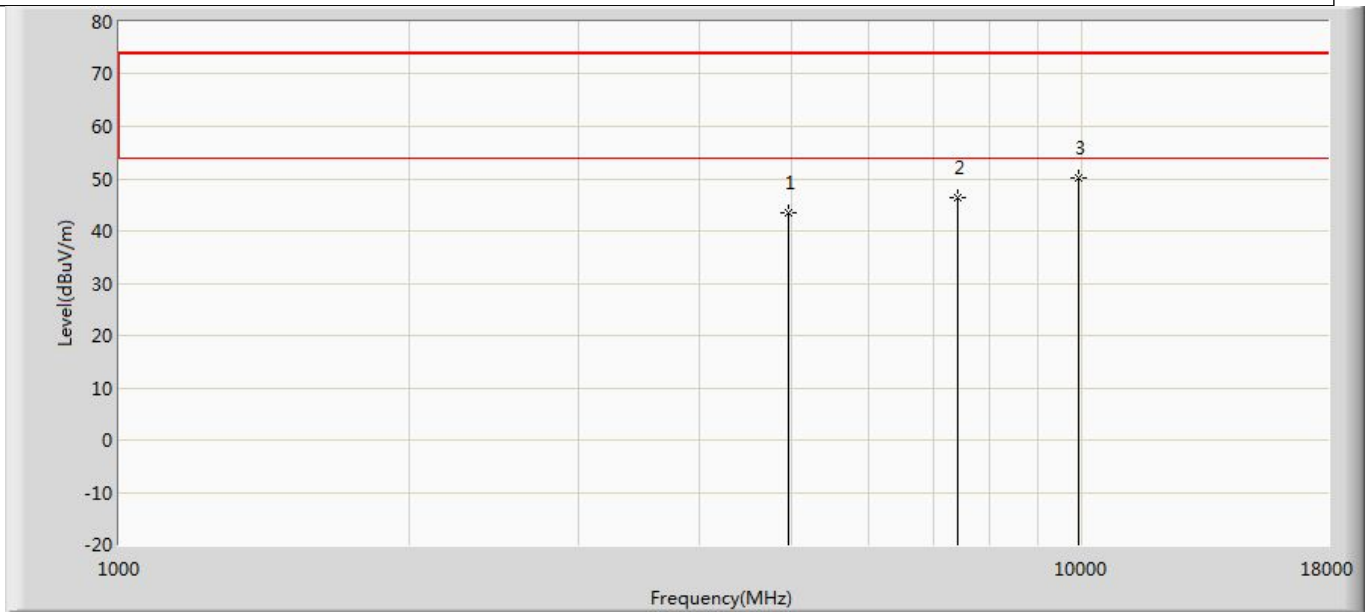
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	42.904	53.596	-31.096	74.000	-10.693	PK
2		7323.000	45.475	52.333	-28.525	74.000	-6.858	PK
3	*	9764.000	50.223	53.133	-23.777	74.000	-2.910	PK

Profile: 2410620R	Page No.: 28
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/08 - 13:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 2：Transmit at 2441MHz by 2DH5	



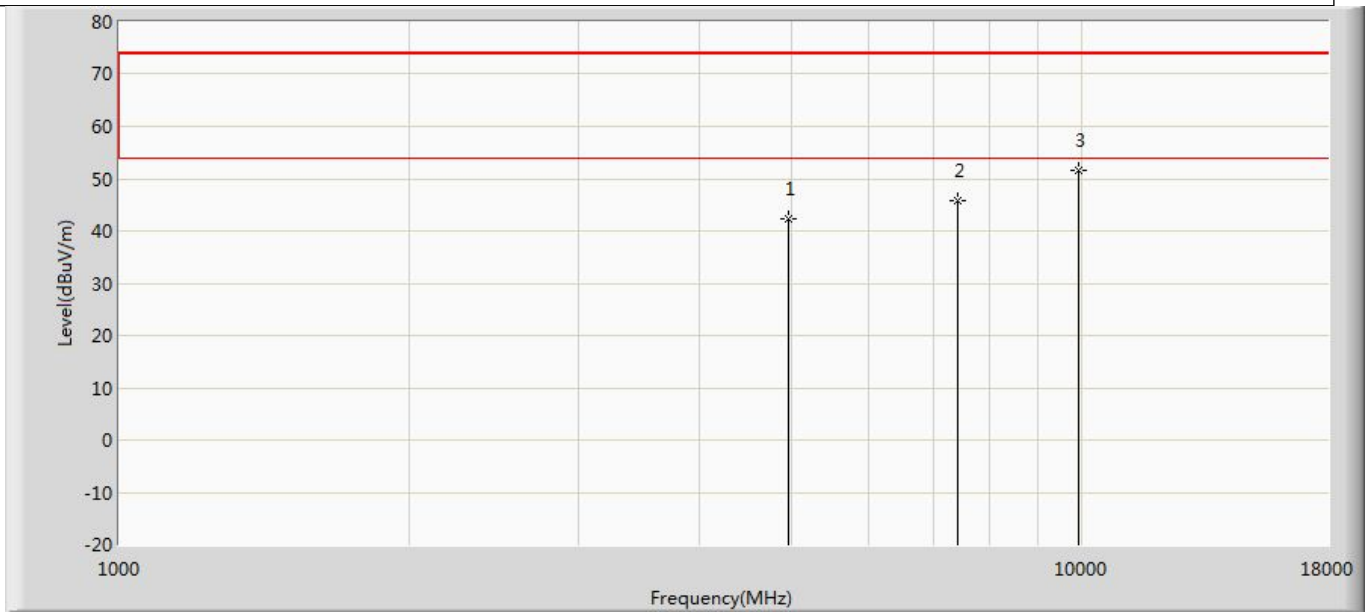
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	42.082	52.774	-31.918	74.000	-10.693	PK
2		7323.000	45.883	52.741	-28.117	74.000	-6.858	PK
3	*	9764.000	49.163	52.073	-24.837	74.000	-2.910	PK

Profile: 2410620R	Page No.: 29
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/08 - 13:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 2：Transmit at 2480MHz by 2DH5	



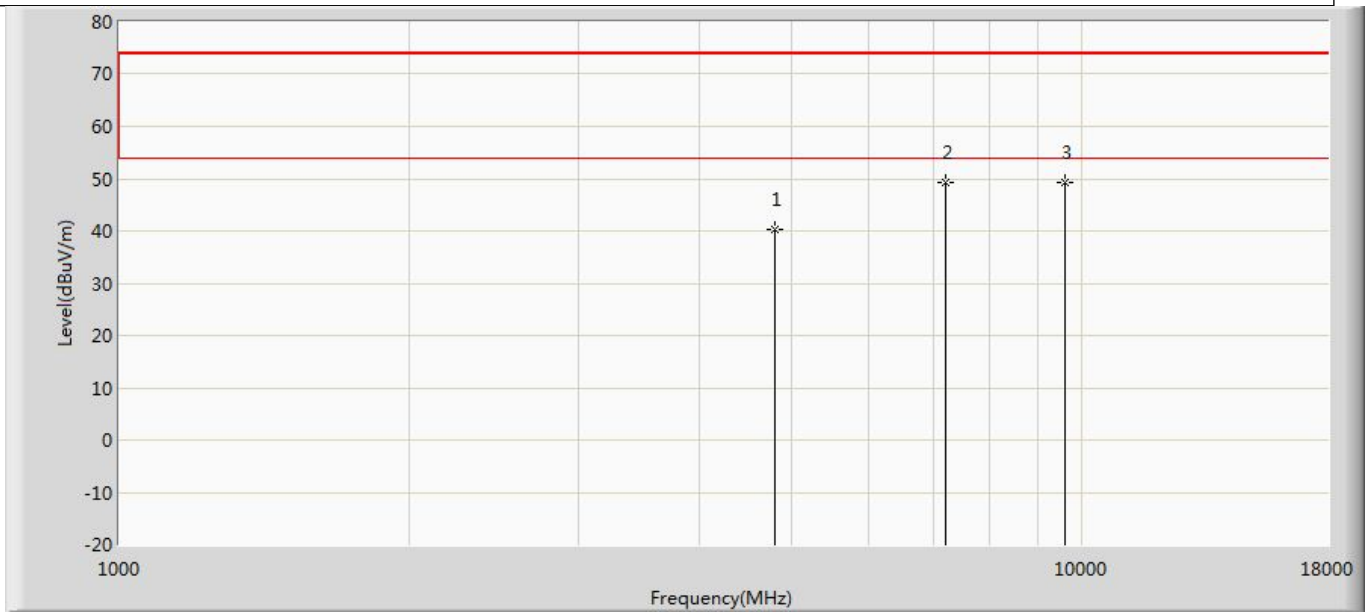
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	43.497	54.203	-30.503	74.000	-10.707	PK
2		7440.000	46.251	53.030	-27.749	74.000	-6.779	PK
3	*	9920.000	50.056	51.878	-23.944	74.000	-1.821	PK

Profile: 2410620R	Page No.: 30
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/08 - 13:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 2：Transmit at 2480MHz by 2DH5	



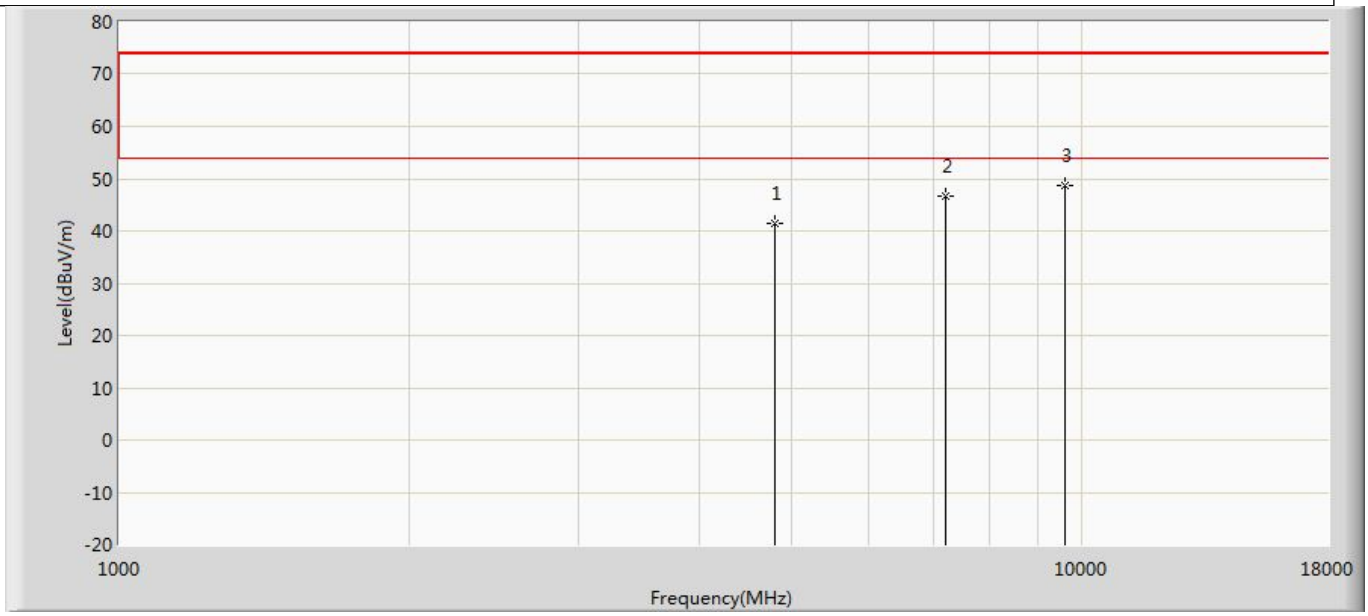
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	42.259	52.965	-31.741	74.000	-10.707	PK
2		7440.000	45.857	52.636	-28.143	74.000	-6.779	PK
3	*	9920.000	51.621	53.443	-22.379	74.000	-1.821	PK

Profile: 2410620R	Page No.: 31
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/08 - 13:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 3：Transmit at 2402MHz by 3DH5	



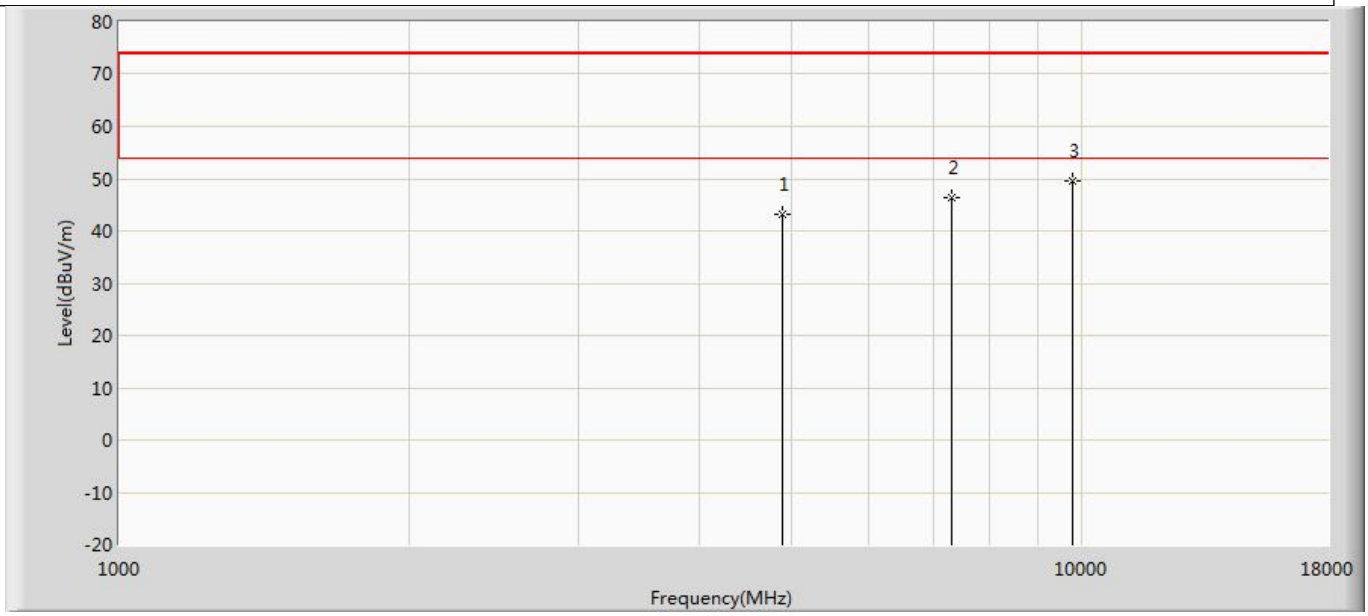
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	40.328	52.216	-33.672	74.000	-11.888	PK
2		7206.000	49.173	55.339	-24.827	74.000	-6.166	PK
3	*	9608.000	49.216	52.439	-24.784	74.000	-3.222	PK

Profile: 2410620R	Page No.: 32
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/08 - 13:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 3：Transmit at 2402MHz by 3DH5	



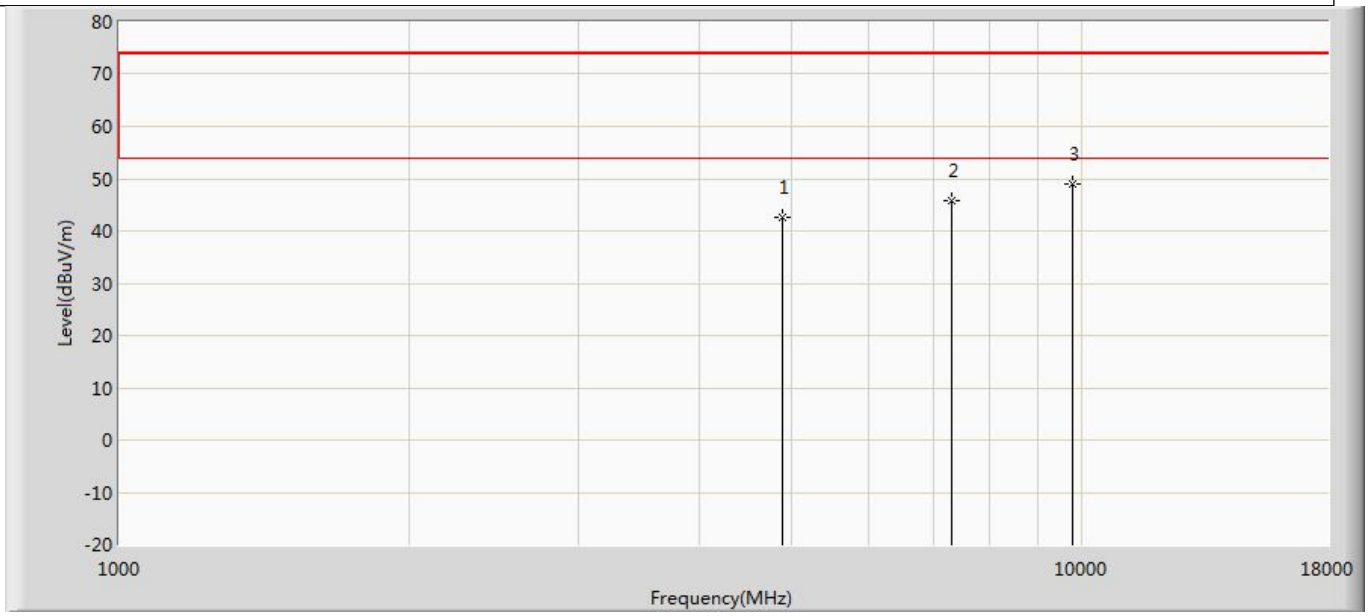
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	41.366	53.254	-32.634	74.000	-11.888	PK
2		7206.000	46.594	52.760	-27.406	74.000	-6.166	PK
3	*	9608.000	48.784	52.007	-25.216	74.000	-3.222	PK

Profile: 2410620R	Page No.: 33
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/08 - 13:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 3：Transmit at 2441MHz by 3DH5	



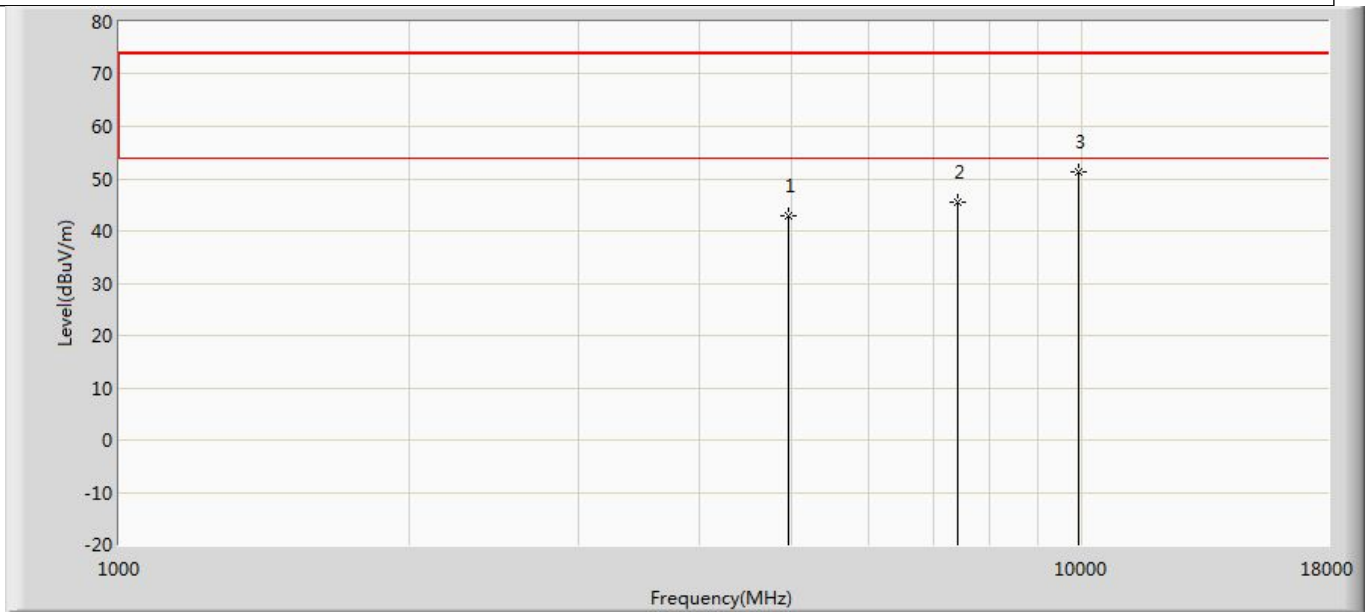
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	43.067	53.759	-30.933	74.000	-10.693	PK
2		7323.000	46.385	53.243	-27.615	74.000	-6.858	PK
3	*	9764.000	49.427	52.337	-24.573	74.000	-2.910	PK

Profile: 2410620R	Page No.: 34
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/08 - 13:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 3：Transmit at 2441MHz by 3DH5	



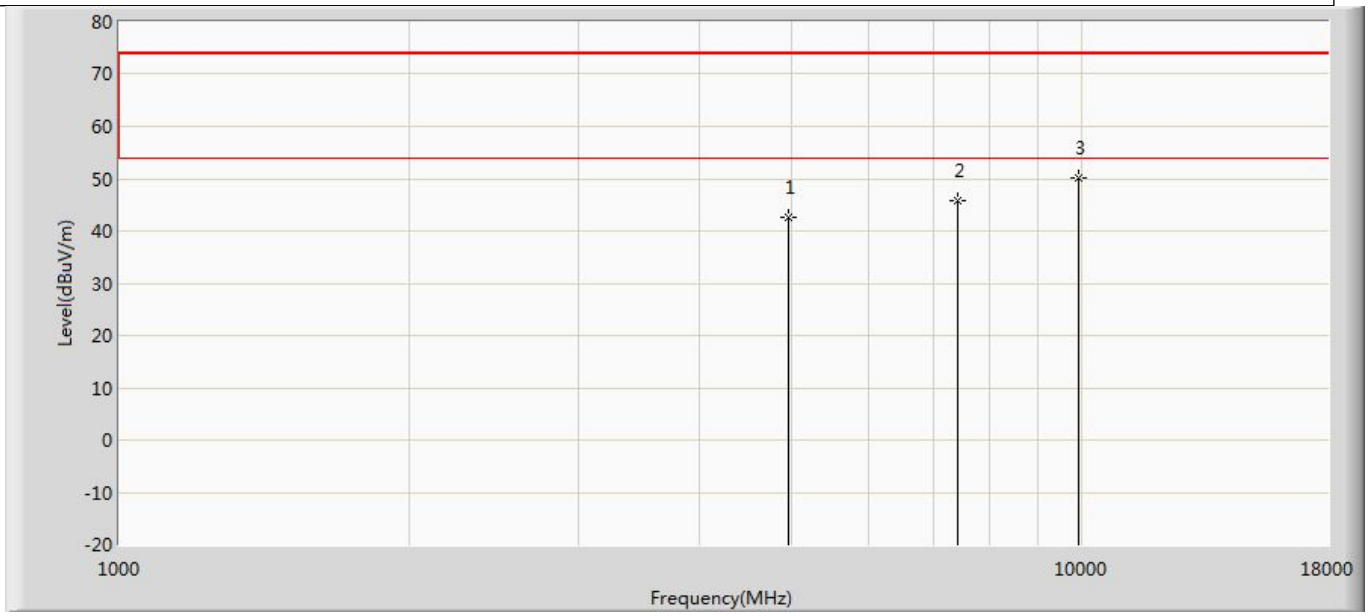
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	42.566	53.258	-31.434	74.000	-10.693	PK
2		7323.000	45.674	52.532	-28.326	74.000	-6.858	PK
3	*	9764.000	49.024	51.934	-24.976	74.000	-2.910	PK

Profile: 2410620R	Page No.: 35
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/08 - 13:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 3：Transmit at 2480MHz by 3DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	42.807	53.513	-31.193	74.000	-10.707	PK
2		7440.000	45.628	52.407	-28.372	74.000	-6.779	PK
3	*	9920.000	51.203	53.025	-22.797	74.000	-1.821	PK

Profile: 2410620R	Page No.: 36
Engineer: Pengchengyang	
Site: AC5	Time: 2024/03/08 - 13:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 3：Transmit at 2480MHz by 3DH5	



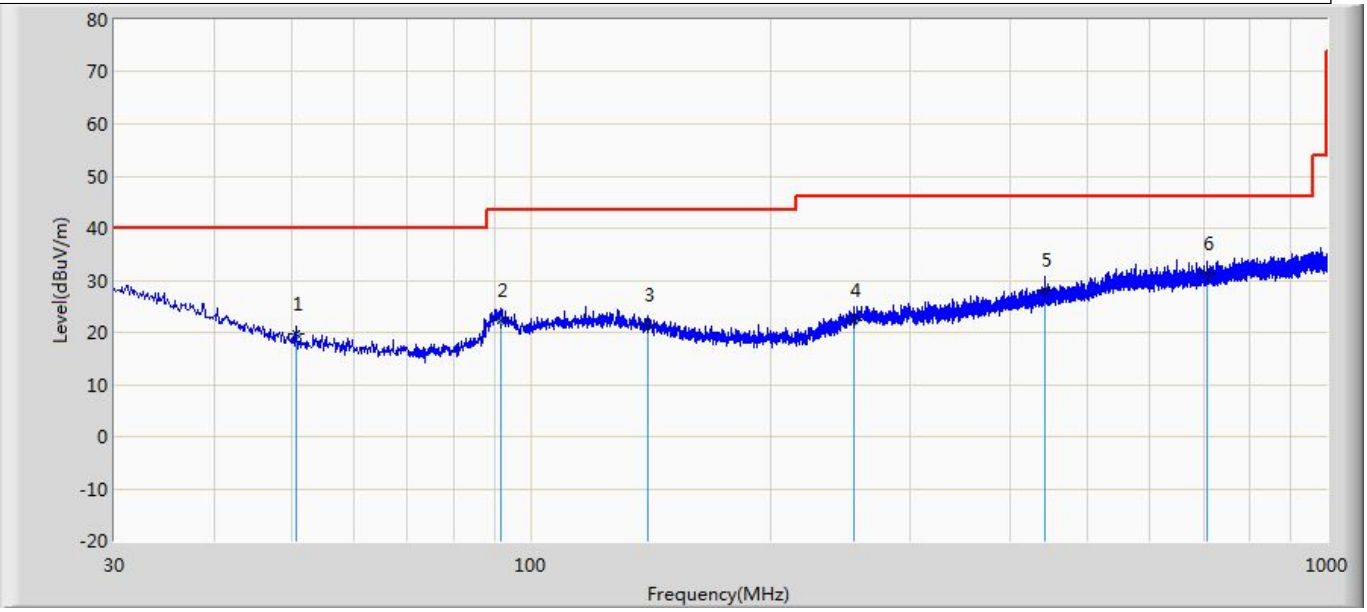
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	42.745	53.451	-31.255	74.000	-10.707	PK
2		7440.000	45.750	52.529	-28.250	74.000	-6.779	PK
3	*	9920.000	50.021	51.843	-23.979	74.000	-1.821	PK

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

2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp). Test Photograph.

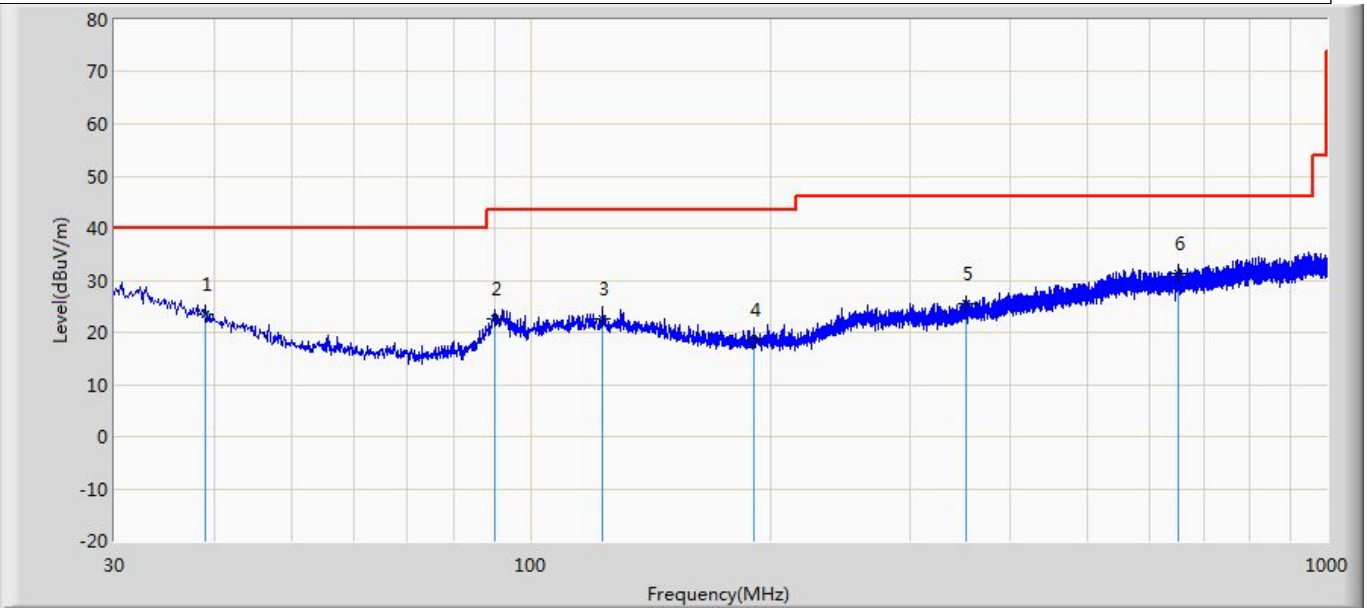
The worst case of radiation emissions in restricted bands below 1GHz:

Profile: 2410620R	Page No.: 87
Engineer: Pengchengyang	
Site: AC2	Time: 2024/03/19 - 07:38
Limit: FCC_Part 15.109_RE (3m)_Class B	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 1：Transmit at 2402MHz by 1Mbps(GFSK_DH5)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		50.734	19.642	4.954	-20.358	40.000	14.687	QP
2		91.838	22.370	6.058	-21.130	43.500	16.312	QP
3		140.337	21.500	3.258	-22.000	43.500	18.242	QP
4		254.434	22.398	2.105	-23.602	46.000	20.293	QP
5		442.250	28.174	3.693	-17.826	46.000	24.481	QP
6	*	708.515	31.177	3.306	-14.823	46.000	27.870	QP

Profile: 2410620R	Page No.: 88
Engineer: Pengchengyang	
Site: AC2	Time: 2024/03/19 - 07:39
Limit: FCC_Part 15.109_RE (3m)_Class B	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 120Vac/60Hz
Note: Mode 1：Transmit at 2402MHz by 1Mbps(GFSK_DH5)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		39.094	23.519	3.458	-16.481	40.000	20.061	QP
2		90.140	22.623	6.701	-20.877	43.500	15.922	QP
3		123.241	22.589	3.280	-20.911	43.500	19.308	QP
4		190.656	18.500	2.255	-25.000	43.500	16.245	QP
5		352.040	25.560	3.392	-20.440	46.000	22.168	QP
6	*	650.921	31.430	3.979	-14.570	46.000	27.450	QP

Note:

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

2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp). Test Photograph.

3. The test data below 30MHz and above 18GHz is more than 20dB below the limit, so there no data shown in report.

The End