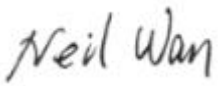
TEST REPORT

Report No. ……:	**KS2204S1365E02**
FCC ID……:	**2AO94-LW001BGPRO**
Applicant……:	**MOKO TECHNOLOGY LIMITED**
Address……:	Factory 201, 107 Pinshun Rd Guixiang community, Guanlan Street, Longhua , Shenzhen,China 518110
Manufacturer……:	MOKO TECHNOLOGY LIMITED
Address……:	Factory 201, 107 Pinshun Rd Guixiang community, Guanlan Street, Longhua , Shenzhen,China 518110
Product Name……:	**Smart Tracker**
Trade Mark……:	N/A
Model/Type reference……:	LW001-BG PRO
Listed Model(s) ……:	N/A
Standard……:	**FCC CFR Title 47 Part 15 Subpart C Section 15.247**
Date of receipt of test sample…:	April 09, 2022
Date of testing……..:	April 09, 2022~May 09, 2022
Date of issue……....:	May 09, 2022
Result……:	**PASS**

prepare by: (Printed Name + Signature)	Sky dong	
Approved by: (Printed Name + Signature)	Neil Wan	

Testing Laboratory Name……:	**KSIGN(Guangdong) Testing Co., Ltd.**
Address……:	West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu,Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, People's Republic of China

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1.TEST SUMMARY

1.1. TEST STANDARDS

The tests were performed according to following standards:

FCC Rules Part 15.247: Operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

KDB 558074 D01：The measurement guidance provided herein is applicable only to Digital Transmission System (DTS) devices operating in the 902-928 MHz. 2400-2483.5 MHz and/or 5725-5850 MHz bands under §15.247 of the FCC rules (Title 47 of the Code of Federal Regulations).

1.2. REPORT VERSION

Revised No.	Date of issue	Description
01	May 09, 2022	Original

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1.3. TEST DESCRIPTION

FCC Part 15 Subpart C(15.247)			
Test Item	Standard Section	Result	Test Engineer
	FCC		
Antenna Requirement	15.203	Pass	Allen Li
Conducted Emission	15.207	N/A	Allen Li
6dB&99% Bandwidth	15.247(a)(2)	Pass	Allen Li
Peak Output Power	15.247(b)	Pass	Allen Li
Power Spectral Density	15.247(e)	Pass	Allen Li
Restricted Band	15.247(d)/15.205	Pass	Allen Li
Band Edge and Spurious Emission(Conducted)	15.247(d)	Pass	Allen Li
Spurious Emission(Radiated)	15.247(d)&15.209	Pass	Allen Li

Note: The measurement uncertainty is not included in the test result.

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1.4. TEST FACILITY

Address of the report laboratory

KSIGN(Guangdong) Testing Co., Ltd.

West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu,Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L13261
KSIGN(Guangdong) Testing Co., Ltd. has been assessed and proved to be in Compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 5457.01
KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

IC Registration No.: CN0096
The 3m alternate test site of KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: CN0096

FCC-Registration No.: CN1272
KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

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1.5. MEASUREMENT UNCERTAINTY

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the KSIGN(Guangdong) Testing Co., Ltd. system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device. Below is the best measurement capability for KSIGN(Guangdong) Testing Co., Ltd.

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.42 dB	(1)
Transmitter power Radiated	2.14 dB	(1)
Conducted spurious emissions 9kHz~40GHz	1.60 dB	(1)
Radiated spurious emissions 9kHz~40GHz	2.20 dB	(1)
Conducted Emissions 9kHz~30MHz	3.20 dB	(1)
Radiated Emissions 30~1000MHz	4.70 dB	(1)
Radiated Emissions 1~18GHz	5.00 dB	(1)
Radiated Emissions 18~40GHz	5.54 dB	(1)
Occupied Bandwidth	2.80 dB	(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

1.6. ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

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2. GENERAL INFORMATION

2.1. GENERAL DESCRIPTION OF EUT

Test Sample Number:	1-1-1(Normal Sample),1-1-2(Engineering Sample)
Product Name:	Smart Tracker
Trade Mark:	N/A
Model/Type reference:	LW001-BG PRO
Listed Model(s):	N/A
Model Different:	N/A
Power supply(Adapter):	N/A
Power supply(Battery):	DC 3.65V From Battery
Hardware version:	LW001_BG_V2.4
Software version:	V1.0
2.4GHz WIFI	
Modulation:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK,QPSK,16QAM,64QAM)
Operation frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz
Max Peak Output Power:	802.11b: 9.14 dBm 802.11g: 9.50 dBm 802.11n (HT20): 9.36 dBm
Channel number:	802.11b/g/n(HT20):11 channels
Test frequency:	CH01: 2412MHz; CH06: 2437MHz;CH11: 2462MHz
Channel separation:	5MHz
Antenna type:	PCB Antenna
Antenna gain:	3.77 dBi

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2.2. OPERATION STATE

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Operation Frequency List:

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

Note:

1.CH 01~CH 11 for 802.11b/g/n(HT20).

2.The display in grey were the channel selected for testing.

Test mode

For RF test items
The engineering test program was provided and enabled to make EUT continuous transmit (duty cycle>98%).
For AC power line conducted emissions:
The EUT was set to connect with the WLAN AP under large package sizes transmission.
For Radiated spurious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit(duty cycle>98%). The EUT in each of three orthogonal axis emissions had been tested ,but only the worst case (X axis) data Recorded in the report.

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2.3. MEASUREMENT INSTRUMENTS LIST

Tonscend JS0806-2 Test system					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
1	Spectrum Analyzer	R&S	FSV40-N	101798	04/07/2022
2	Vector Signal Generator	Agilent	N5182A	MY50142520	04/07/2022
3	Analog Signal Generator	HP	83752A	3344A00337	04/07/2022
4	Power Sensor	Agilent	E9304A	MY50390009	04/07/2022
5	Power Sensor	Agilent	E9300A	MY41498315	04/07/2022
6	Wideband Radio Communication Tester	R&S	CMW500	157282	04/07/2022
7	Climate Chamber	Angul	AGNH80L	1903042120	04/07/2022
8	Dual Output DC Power Supply	Agilent	E3646A	MY40009992	04/07/2022
9	RF Control Unit	Tonscend	JS0806-2	/	04/07/2022

Transmitter spurious emissions & Receiver spurious emissions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
1	EMI Test Receiver	R&S	ESR	102525	04/07/2022
2	High Pass Filter	Chengdu E-Microwave	OHF-3-18-S	0E01901038	03/27/2022
3	High Pass Filter	Chengdu E-Microwave	OHF-6.5-18-S	0E01901039	03/27/2022
4	Spectrum Analyzer	HP	8593E	3831U02087	04/07/2022
5	Ultra-Broadband logarithmic period Antenna	Schwarzbeck	VULB 9163	01230	03/29/2023
6	Loop Antenna	Beijin ZHINAN	ZN30900C	18050	03/25/2022
7	Spectrum Analyzer	R&S	FSV40-N	101798	04/07/2022
8	Horn Antenna	Schwarzbeck	BBHA 9120 D	2023	03/29/2023
9	Pre-Amplifier	Schwarzbeck	BBV 9745	9745#129	04/07/2022
10	Pre-Amplifier	EMCI	EMC051835 SE	980662	04/07/2022
11	Pre-Amplifier	Schwarzbeck	BBV-9721	57	04/07/2022
12	Horn Antenna	Schwarzbeck	BBHA 9170	00939	03/29/2022

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	LISN	R&S	ENV432	1326.6105.02	03/27/2022
2	EMI Test Receiver	R&S	ESR	102524	04/07/2022
3	Manual RF Switch	JS TOYO	/	MSW-01/002	04/07/2022

Note:
1)The Cal. Interval was one year.
2)The cable loss has calculated in test result which connection between each test instruments.

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2.4. TEST SOFTWARE

Software name	Model	Version
Radiated emission Measurement Software	EZ-EMC	FA-03A.2.RE
Bluetooth and WIFI Test System	JS1120-3	2.5.77.0418

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3. TEST ITEM AND RESULTS

3.1. ANTENNA REQUIREMENT

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 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, 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.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.

Note: The antenna is permanently fixed to the EUT

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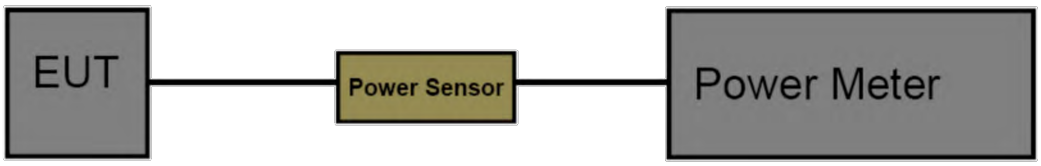
3.2. PEAK OUTPUT POWER

Limit

Test Item	Limit	Frequency Range(MHz)
Peak Output Power	1 Watt or 30 dBm	2400~2483.5

Test Configuration



Test Procedure

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
2. The measurement is according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.
3. Spectrum Setting:
   Set analyser center frequency to DTS channel center frequency.
   Set the RBW to: 1MHz
   Set the VBW to: 3MHz
   Detector: peak
   Sweep time: auto
   Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.
4. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

Test Mode

Please refer to the clause 2.2

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Test Result

Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
802.11b	2412	8.92	30
	2437	8.60	
	2462	9.14	
802.11g	2412	9.43	
	2437	9.08	
	2462	9.50	
802.11n (HT20)	2412	9.34	
	2437	8.98	
	2462	9.36	
Result： PASS			

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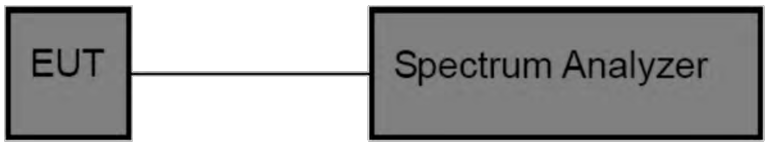
3.3. POWER SPECTRAL DENSITY

Limit

FCC Part 15 Subpart C(15.247)		
Test Item	**Limit**	**Frequency Range(MHz)**
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

Test Configuration



Test Procedure

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.
3. Spectrum Setting:
   Set analyser center frequency to DTS channel center frequency.
   Set the span to 1.5 times the DTS bandwidth.
   Set the RBW to: 3 kHz
   Set the VBW to: 10 kHz
   Detector: peak
   Sweep time: auto
   Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.2

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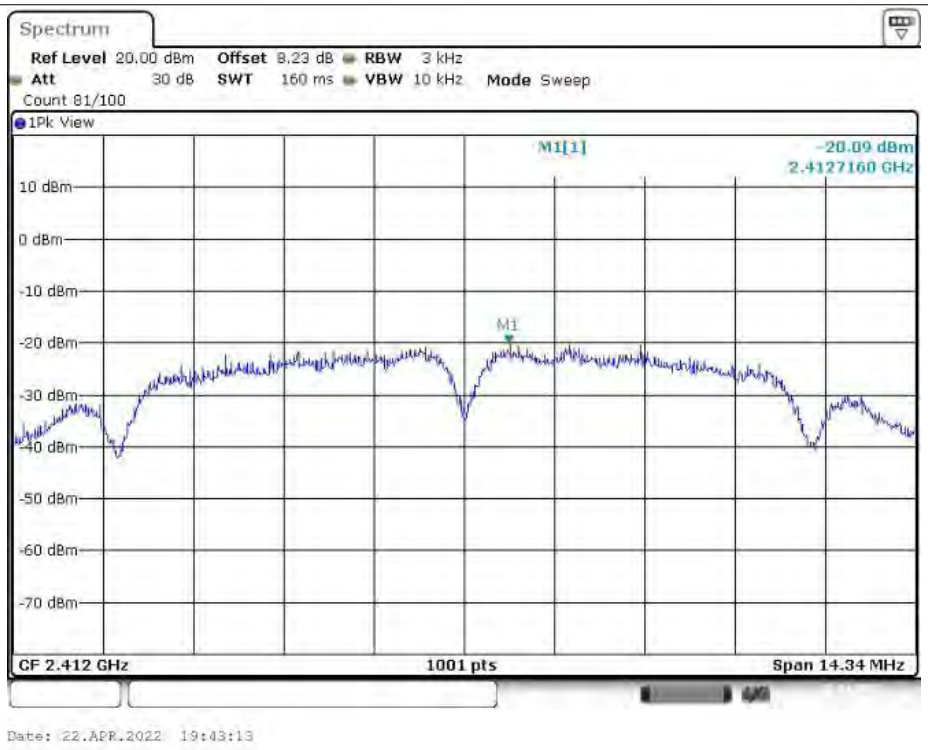
Test Result

Test Mode:	802.11b Mode		
Channel Frequency (MHz)	Power Density (dBm/10kHz)	Power Density (dBm/3kHz)	Limit (dBm)
2412	/	-20.09	8dBm/3kHz
2437	/	-19.7	
2462	/	-20.18	

2412 MHz



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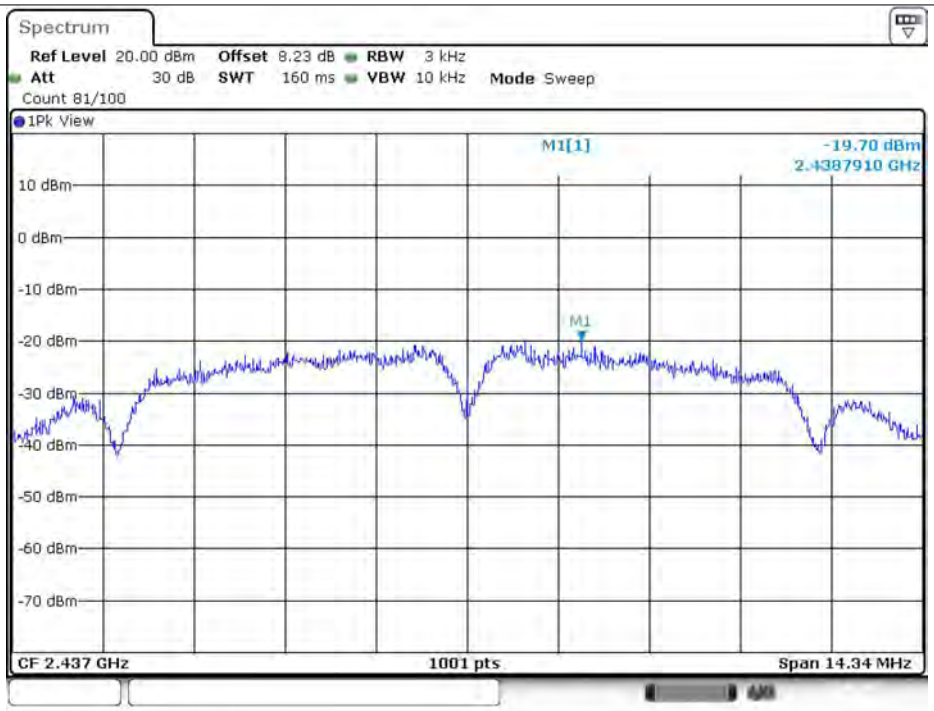
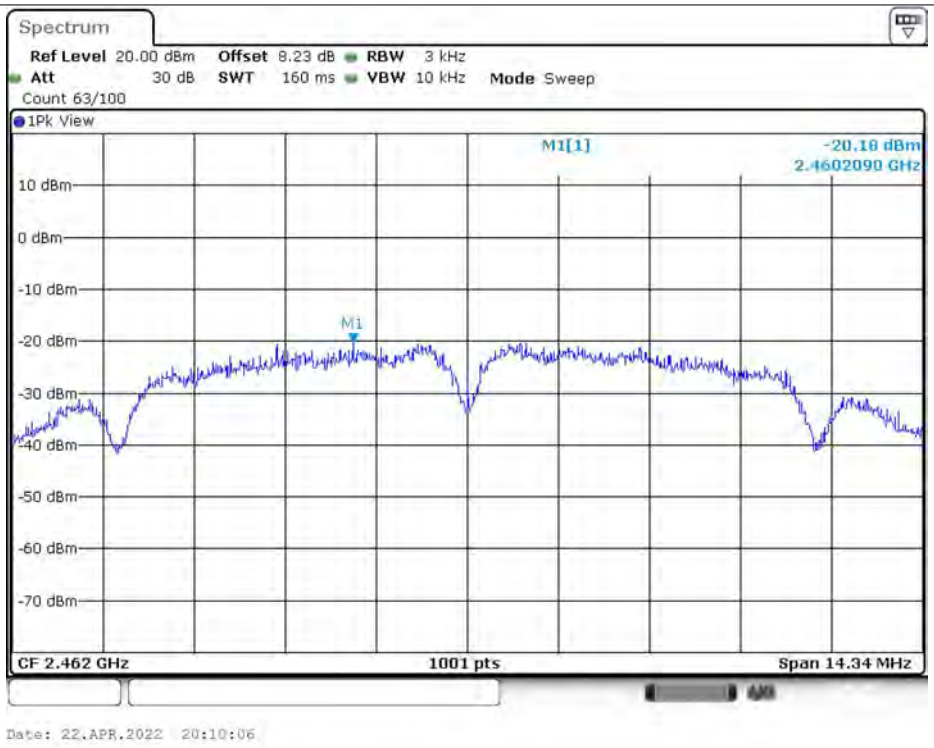
2437 MHz



2462 MHz



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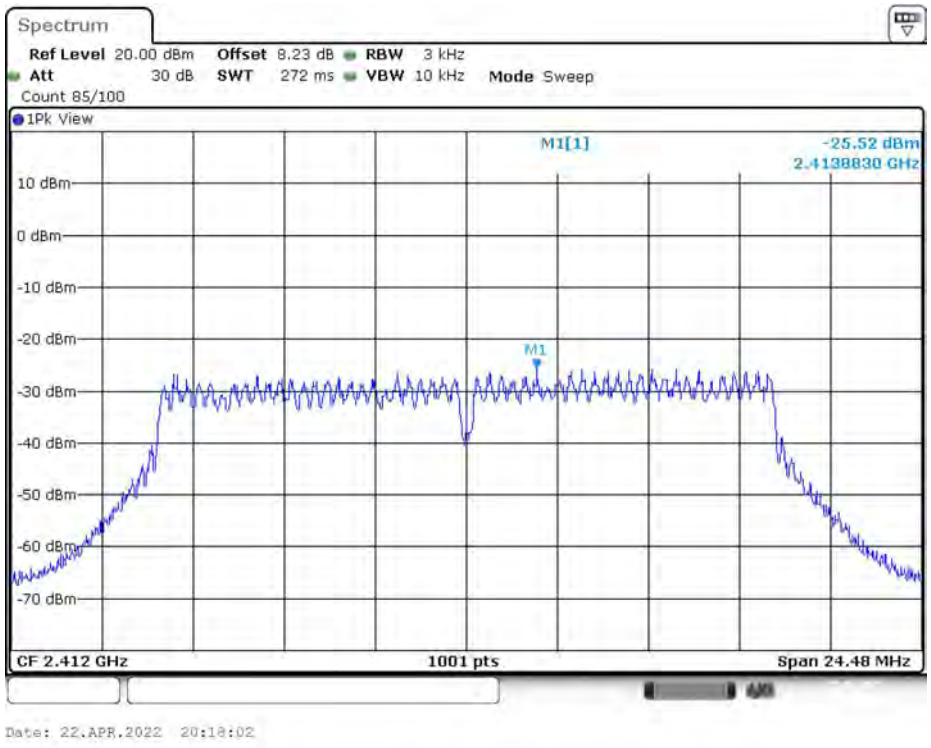
Test Mode:	802.11g Mode		
Channel Frequency (MHz)	Power Density (dBm/10 kHz)	Power Density (dBm/3 kHz)	Limit(dBm)
2412	/	-25.52	8dBm/3kHz
2437	/	-26.00	
2462	/	-25.71	
2412 MHz			



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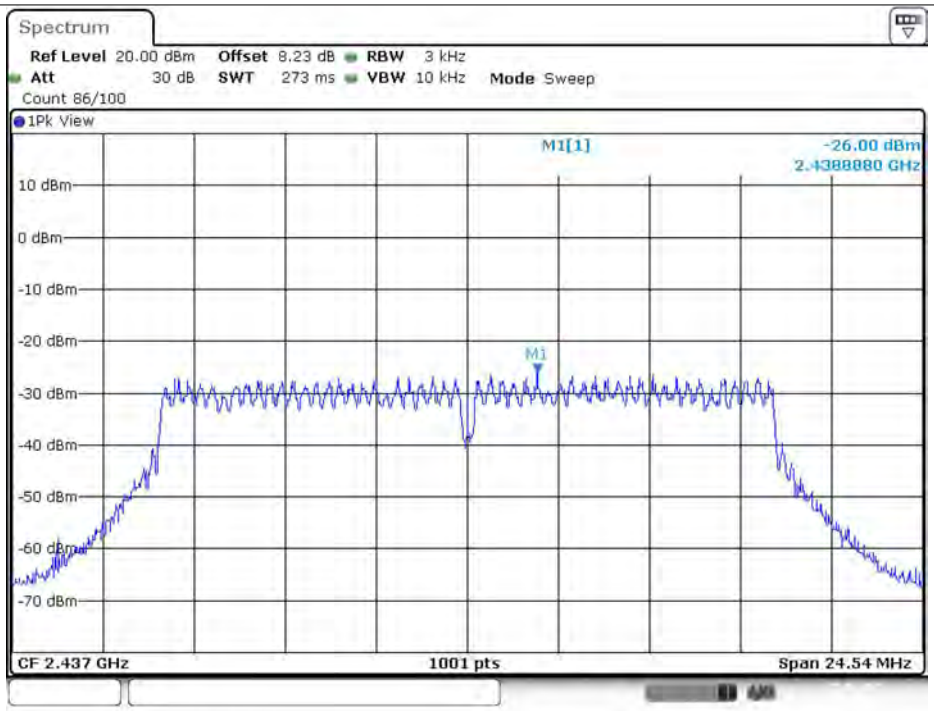
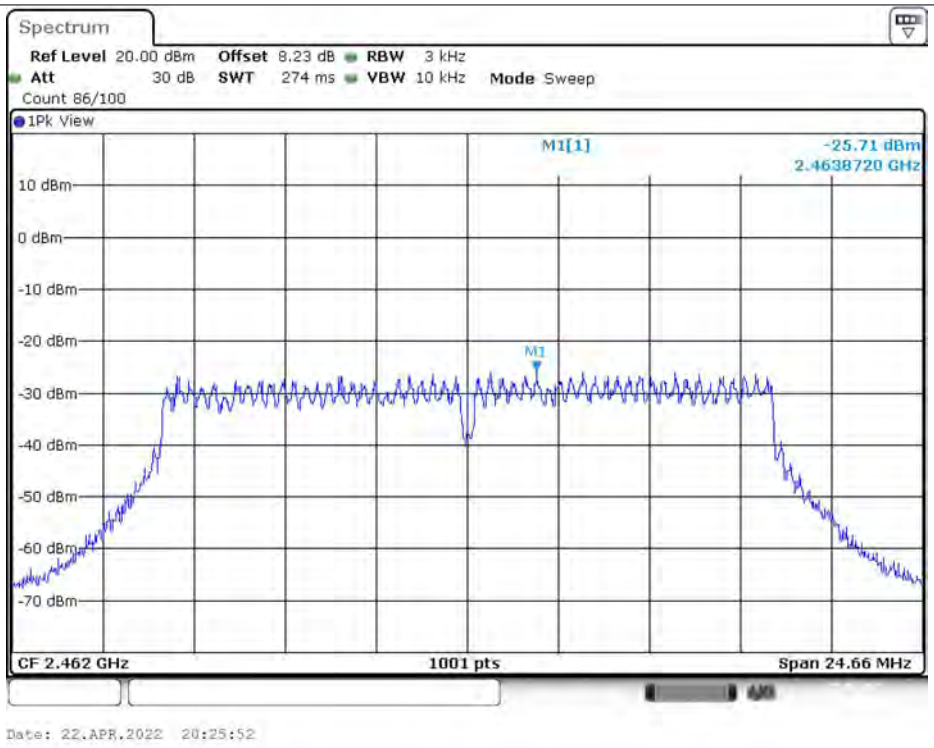
2437 MHz



2462 MHz



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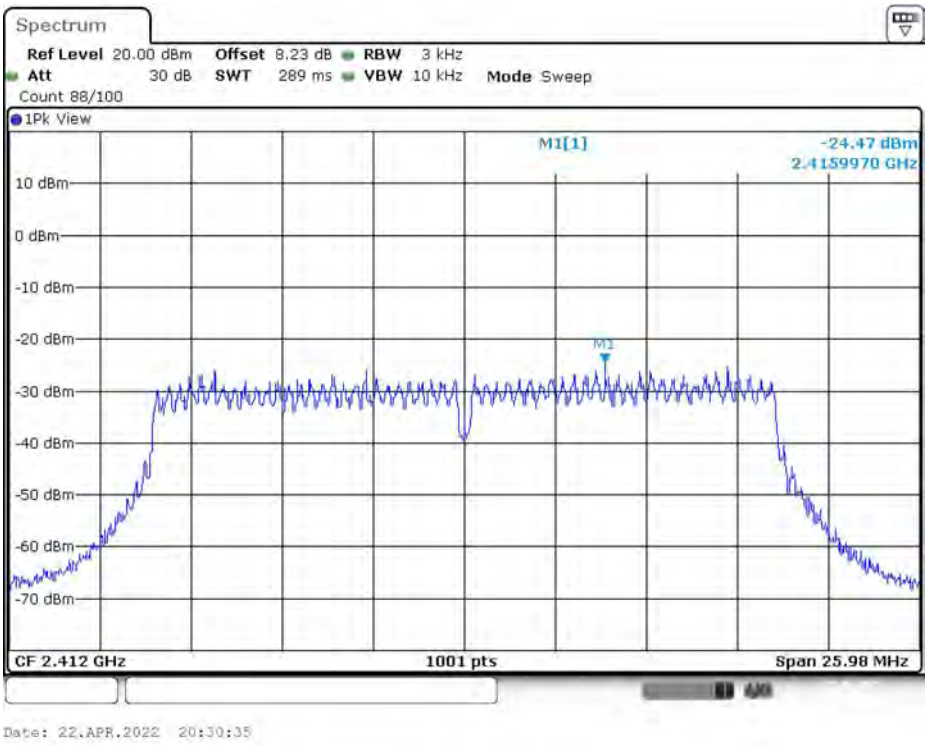
Test Mode:	802.11n(HT20) Mode		
Channel Frequency (MHz)	Power Density (dBm/10kHz)	Power Density (dBm/3 kHz)	Limit (dBm)
2412	/	-24.47	8dBm/3kHz
2437	/	-25.07	
2462	/	-24.52	
2412 MHz			



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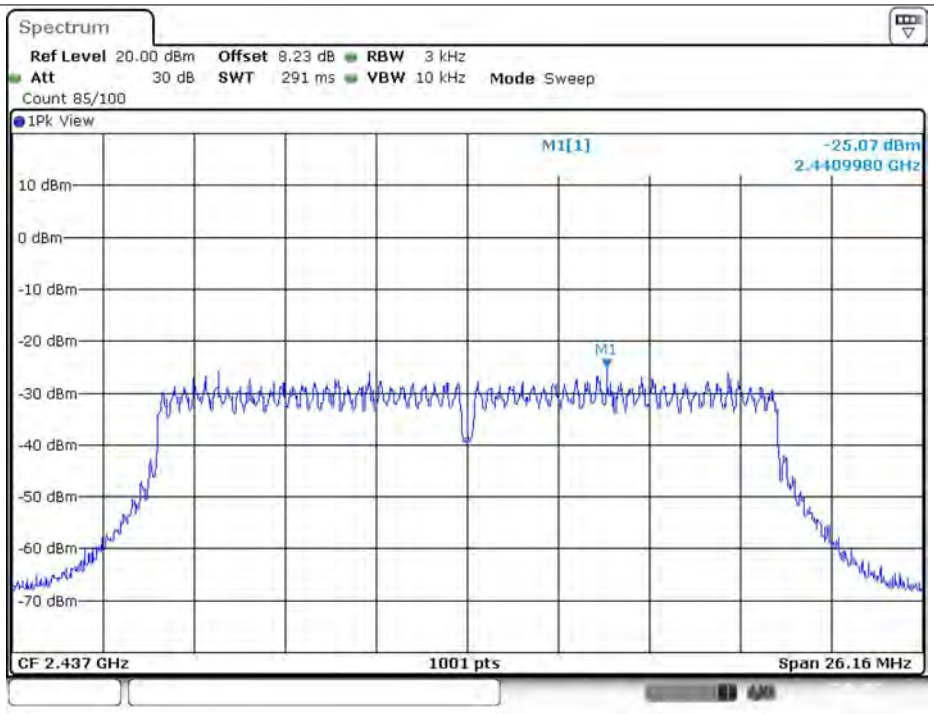
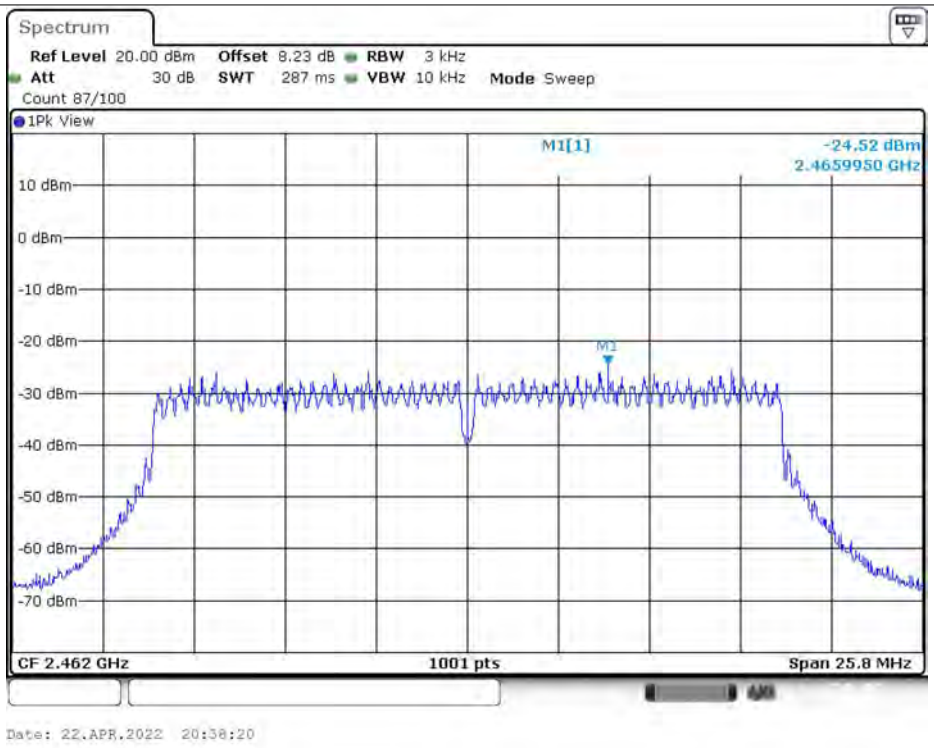
2437 MHz



2462 MHz



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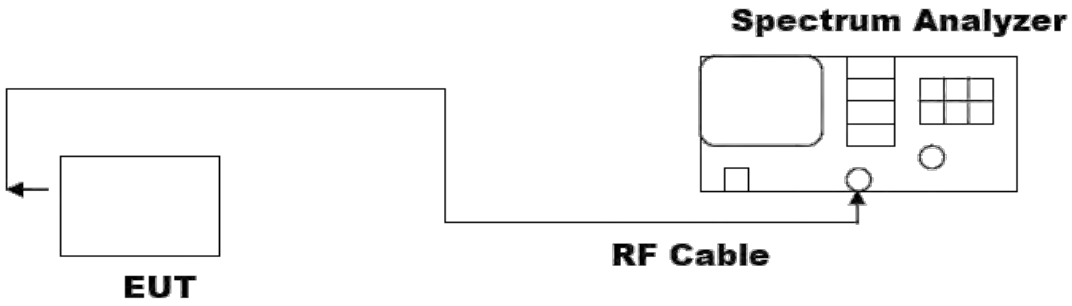
3.4. BANDWIDTH

Limit

Test Item	Limit	Frequency Range(MHz)
Bandwidth	>=500 KHz (6dB bandwidth)	2400~2483.5

Test Configuration



Test Procedure

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator:
   6db Bandwidth
   (1) Set RBW = 100 kHz.
   (2) Set the video bandwidth (VBW) ≥ 3 RBW.
   (3) Detector = Peak.
   (4) Trace mode = Max hold.
   (5) Sweep = Auto couple.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

Please refer to the clause 2.2.

Add：West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China
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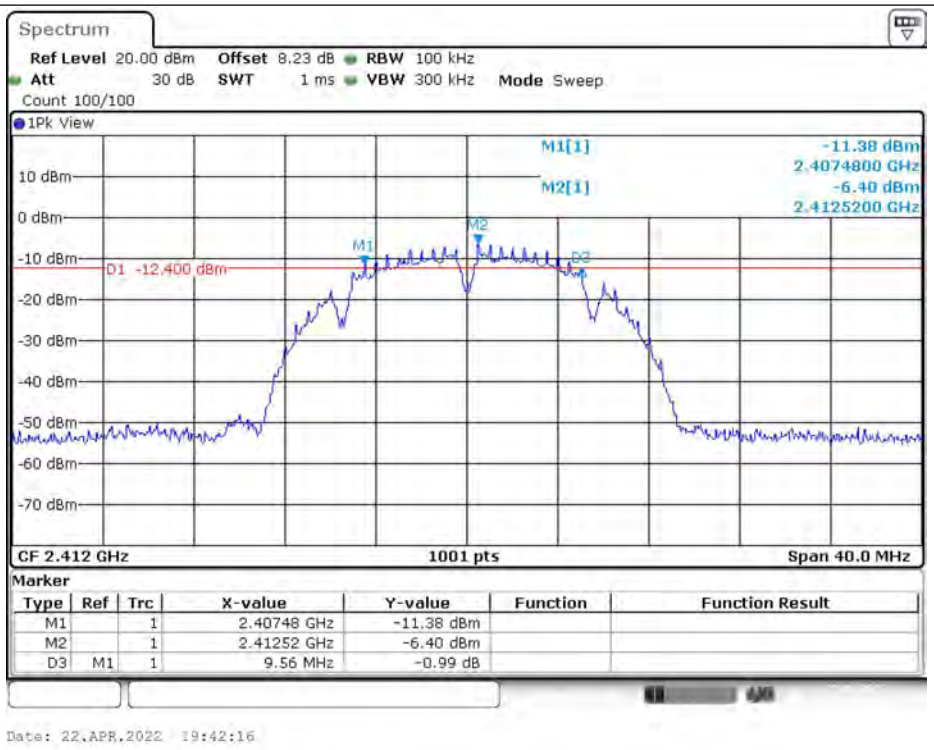
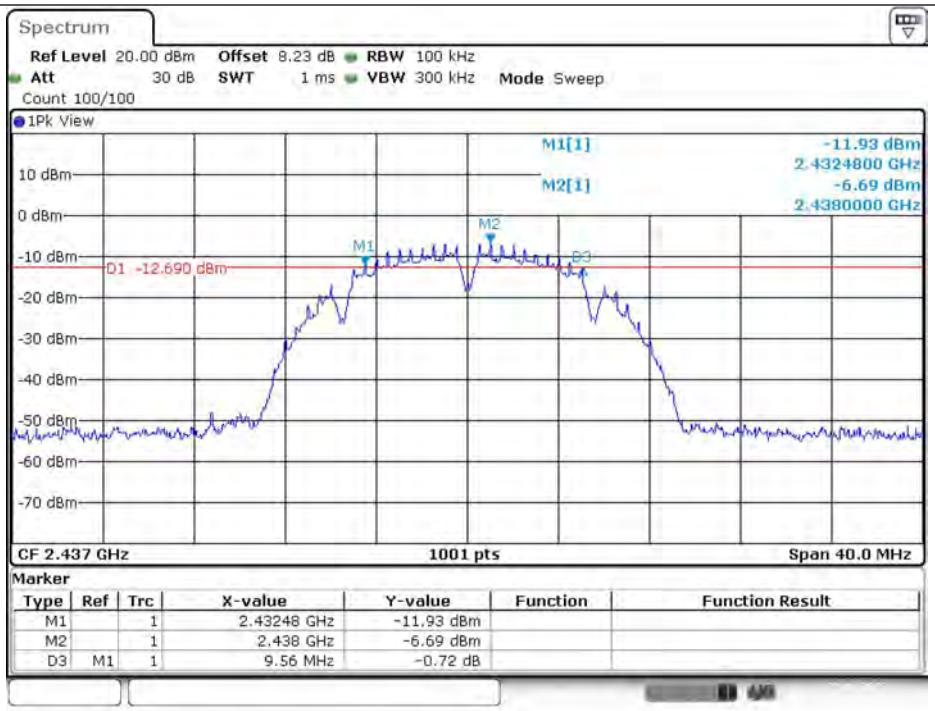
Test Results

Test Mode:	802.11b Mode	
Channel frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
2412	9.56	>=0.5
2437	9.56	
2462	9.56	
2412 MHz		

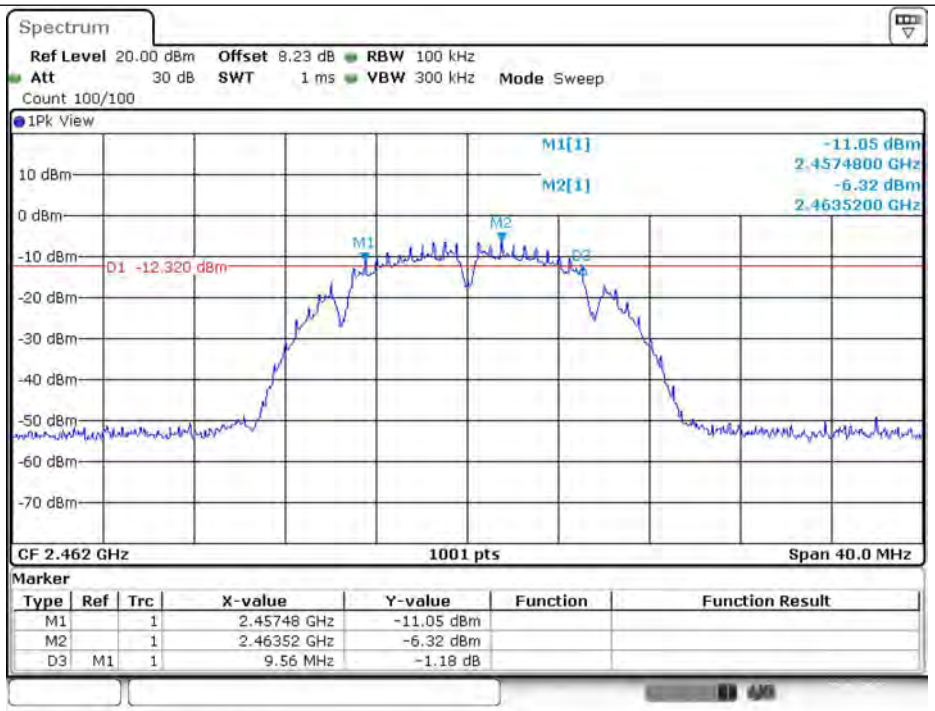


Add：West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China
Tel：+(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail：info@gdksign.cn Web: www.gdksign.com

2437 MHz



2462 MHz



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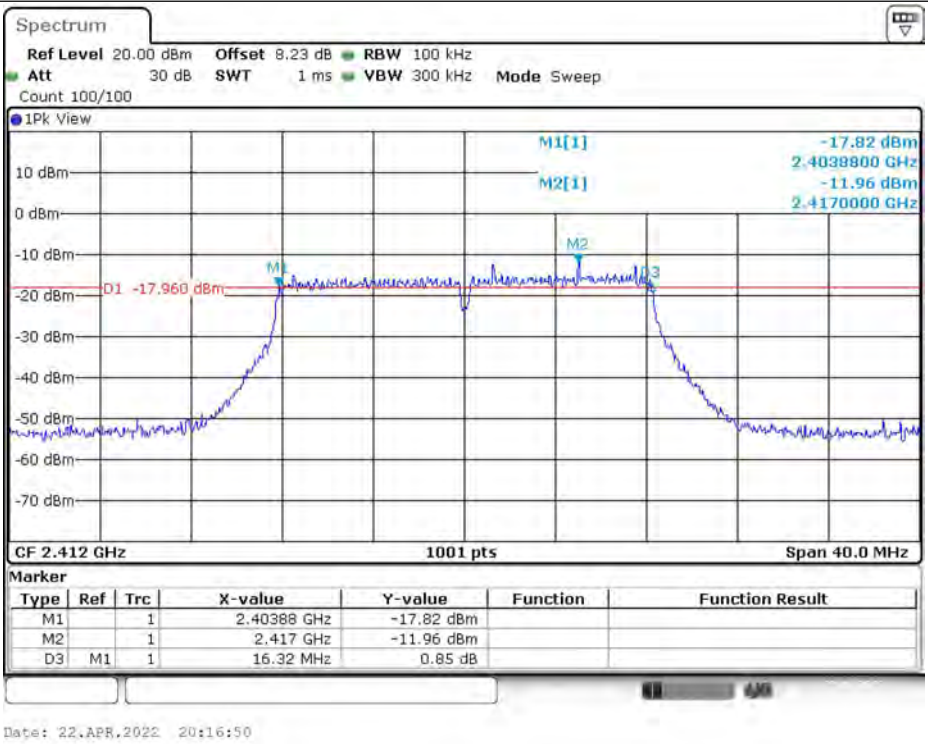
Test Mode:	802.11g Mode	
Channel frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
2412	16.32	>=0.5
2437	16.36	
2462	16.44	
2412 MHz		



Add：West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China
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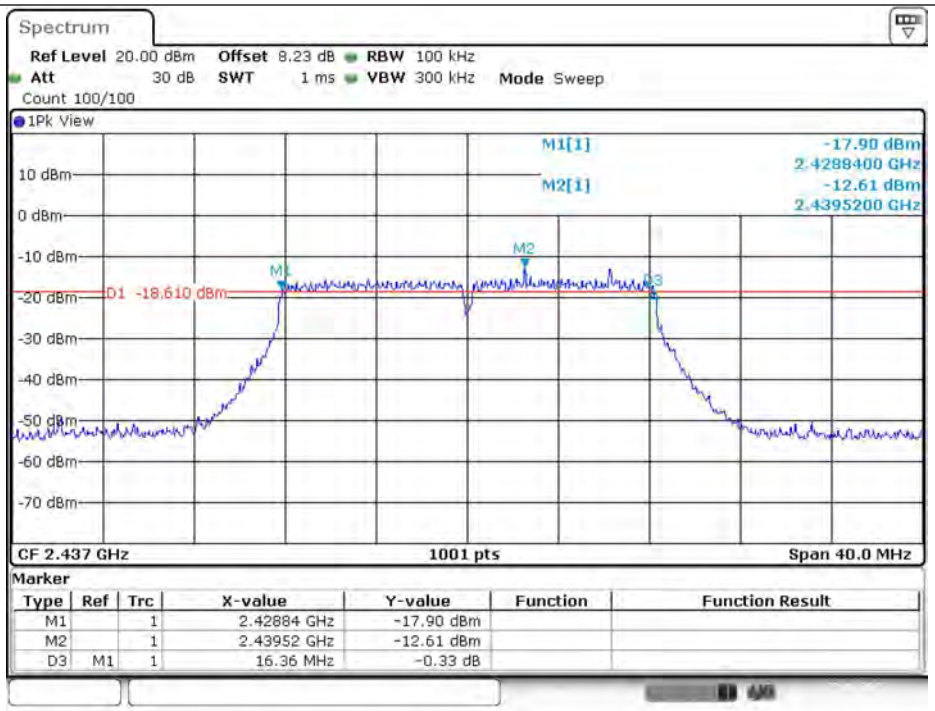
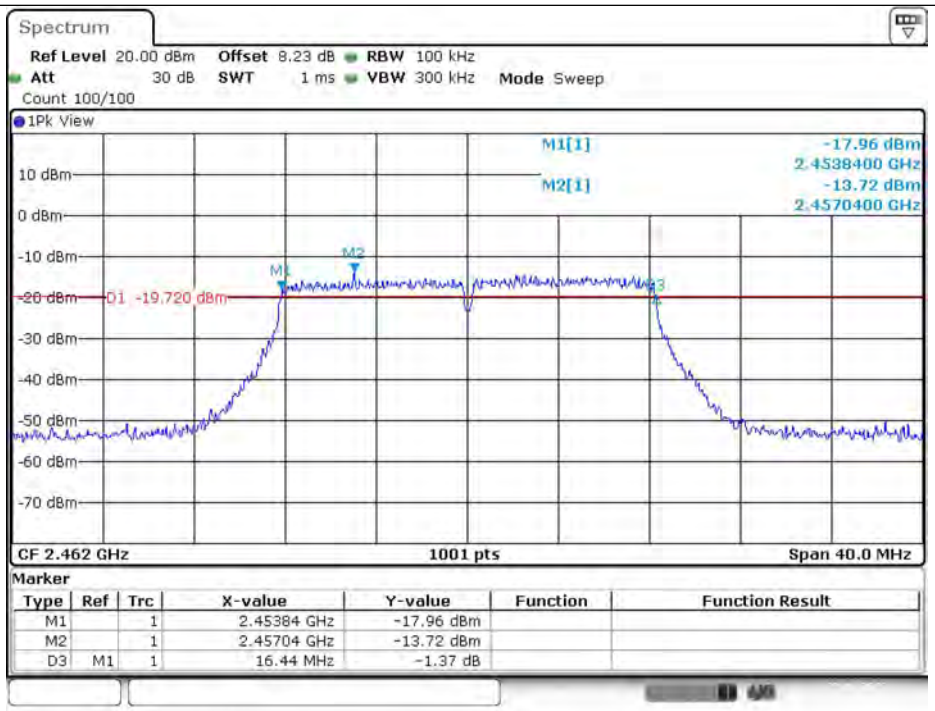
2437 MHz



2462 MHz



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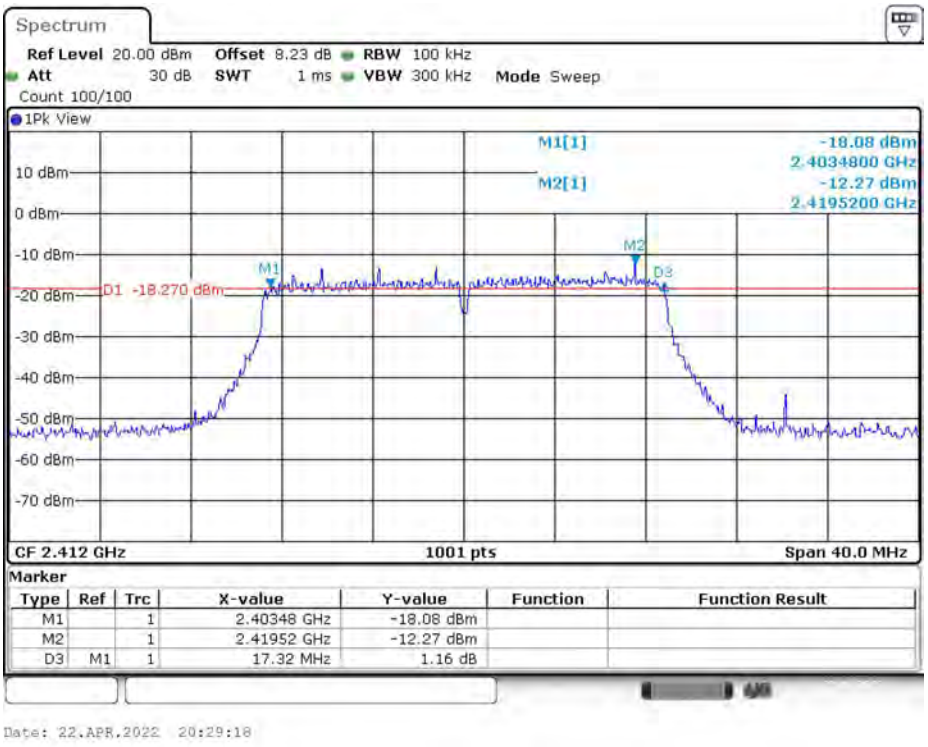
Test Mode:	802.11n(HT20) Mode	
Channel frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
2412	17.32	>=0.5
2437	17.44	
2462	17.20	
2412 MHz		



Add：West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China
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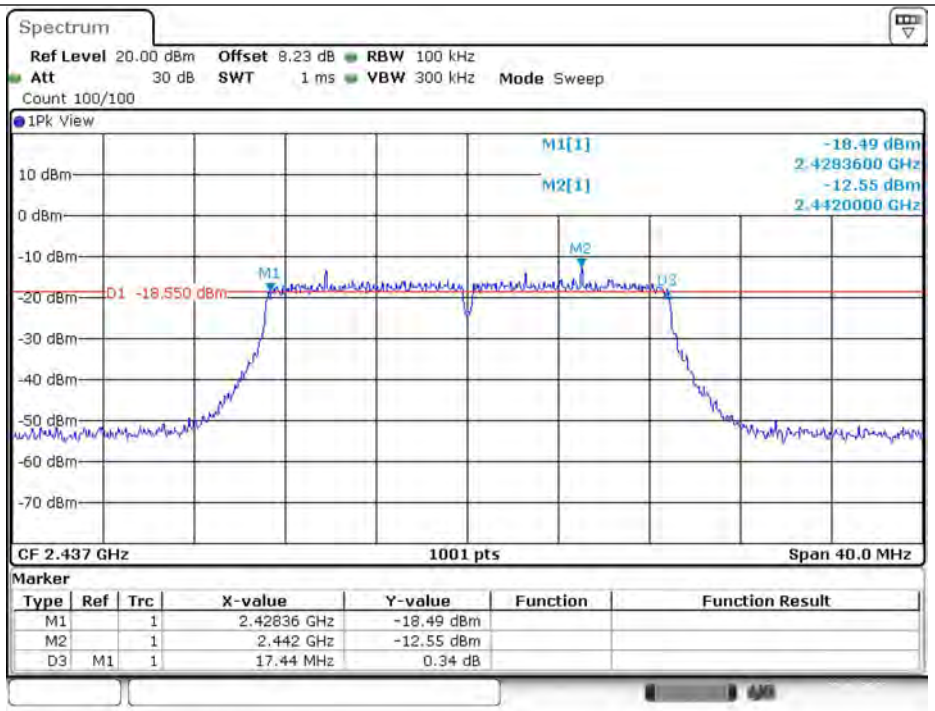
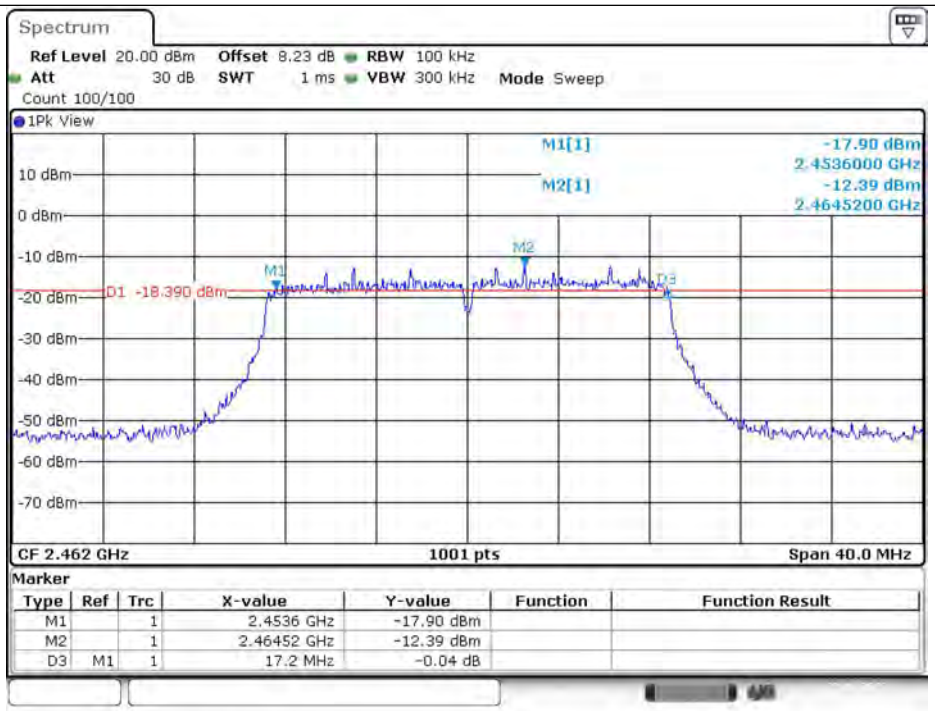
2437 MHz



2462 MHz



Add：West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China
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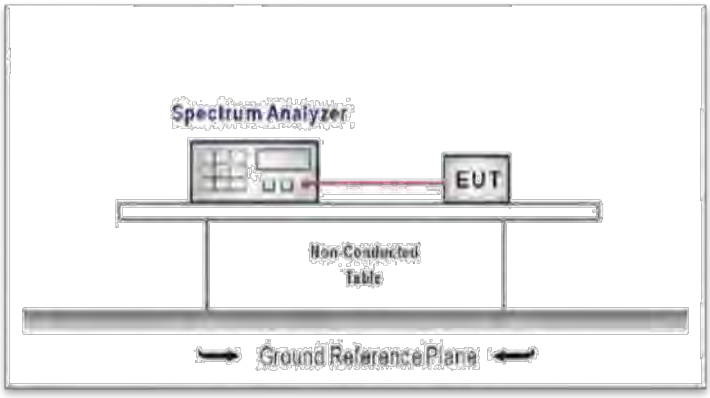
3.5. BAND EDGE AND SPURIOUS EMISSION (CONDUCTED)

Limit

FCC CFR Title 47 Part 15 Subpart C Section15.247 (d):
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

Test Configuration



Test Procedure

1. Connect EUT RF Output port to the Spectrum Analyzer through an RF attenuator.
2. Spectrum Setting:
   RBW=100KHz
   VBW=300KHz.
   Detector function: Peak.
   Trace: Max hold.
   Sweep = Auto couple.

   Allow the trace to stabilize.

Test Mode

Please refer to the clause 2.2.

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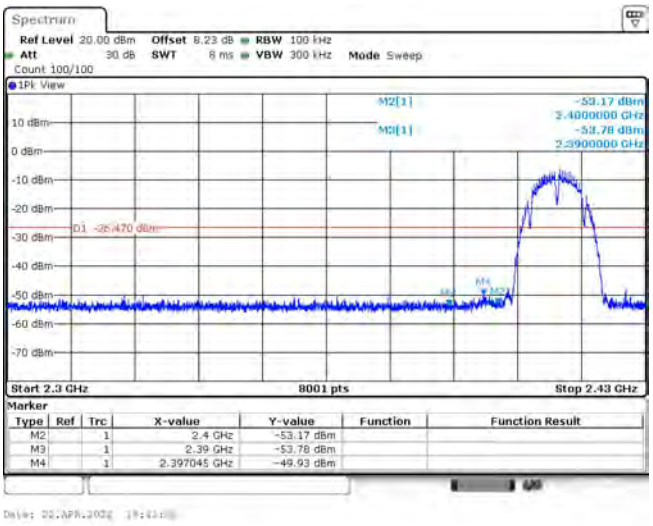
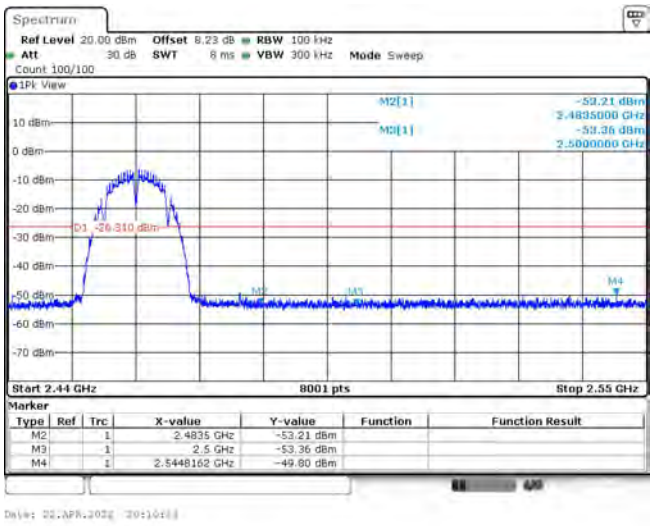
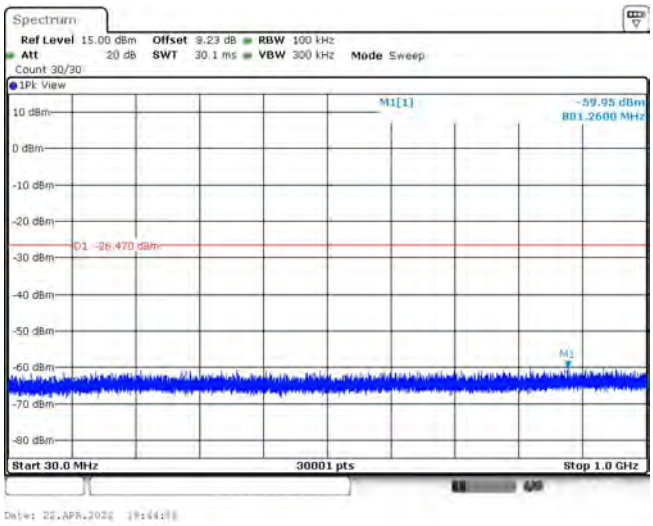
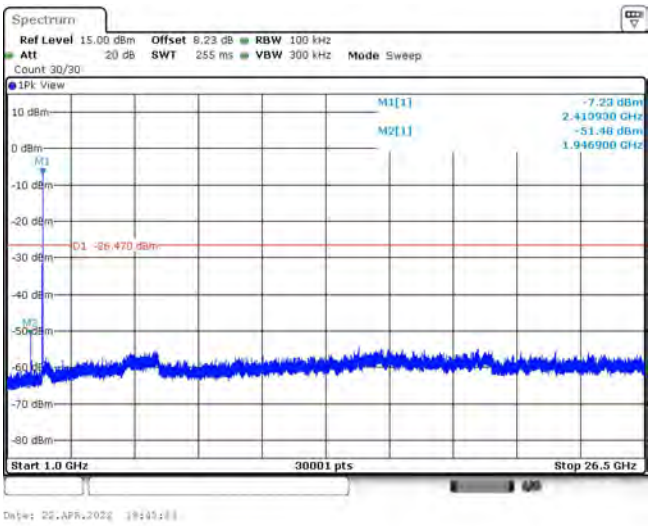
Test Results

802.11b	
CH01-Bandedge	CH11-Bandedge
	

802.11b	
CH01-SE	
	

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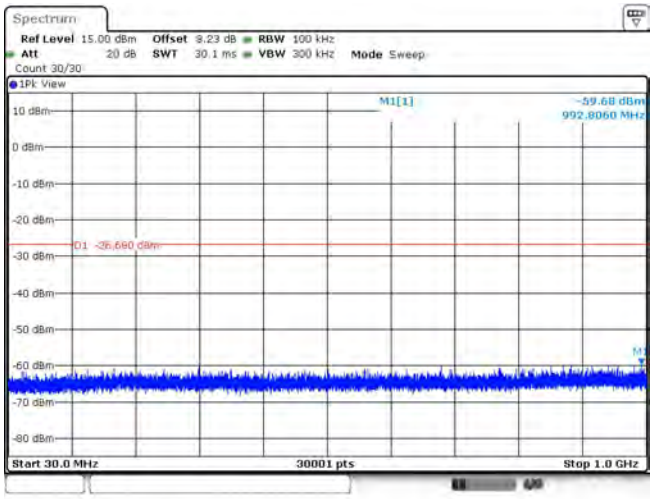
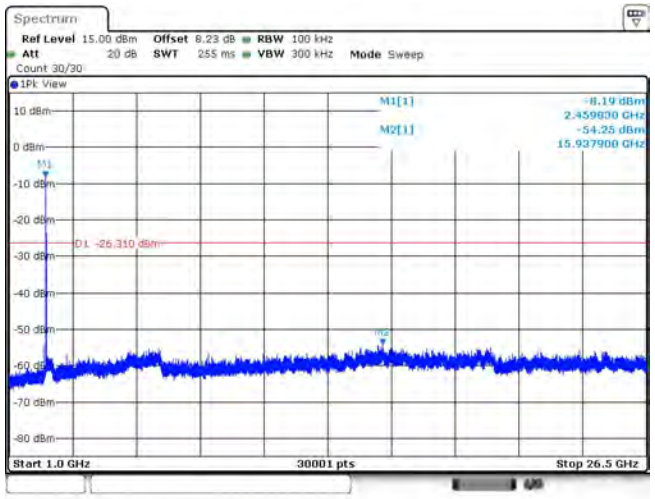
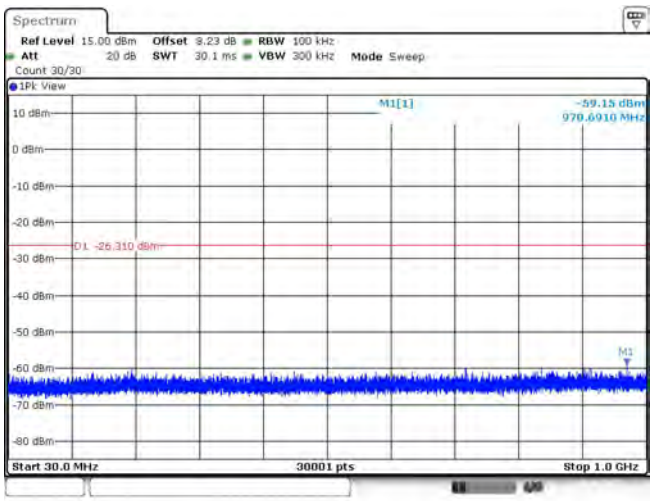
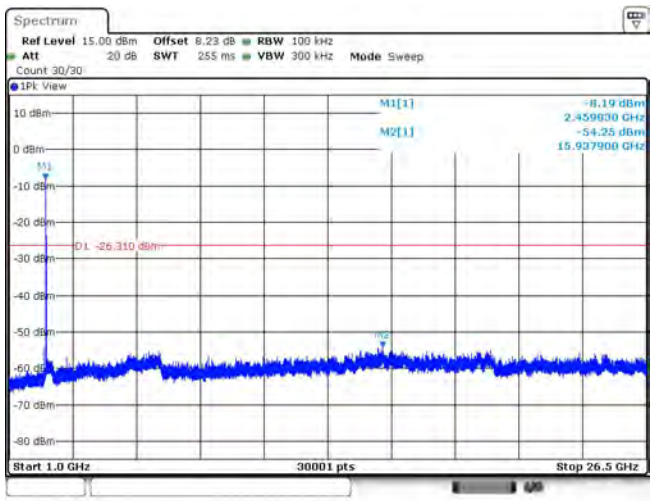
CH06-SE





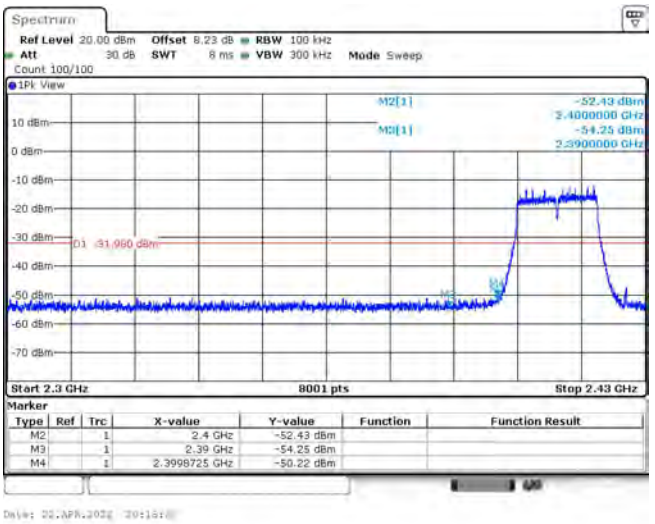
CH11-SE



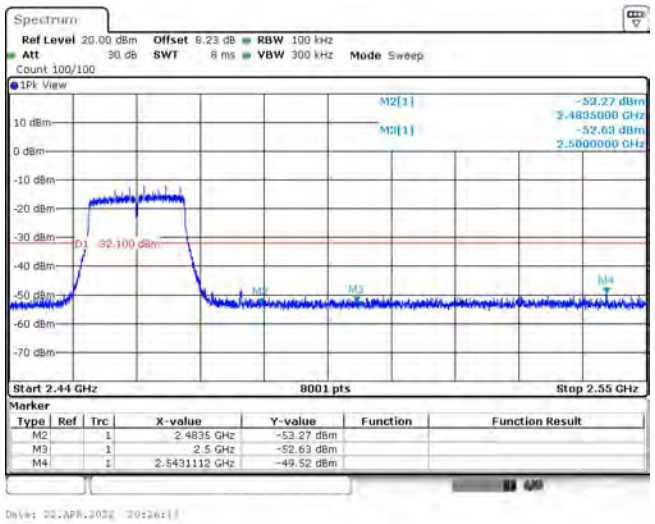


802.11g

CH01-Bandedge



CH11-Bandedge



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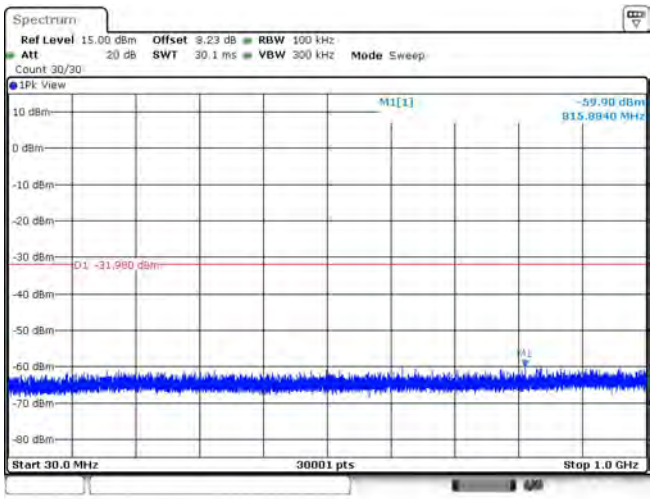
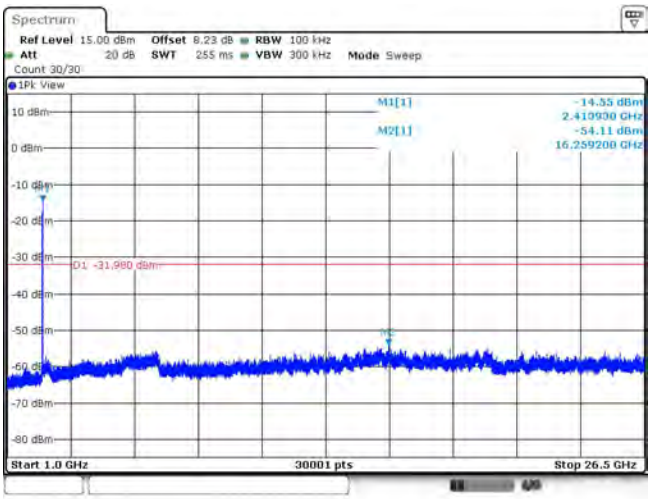
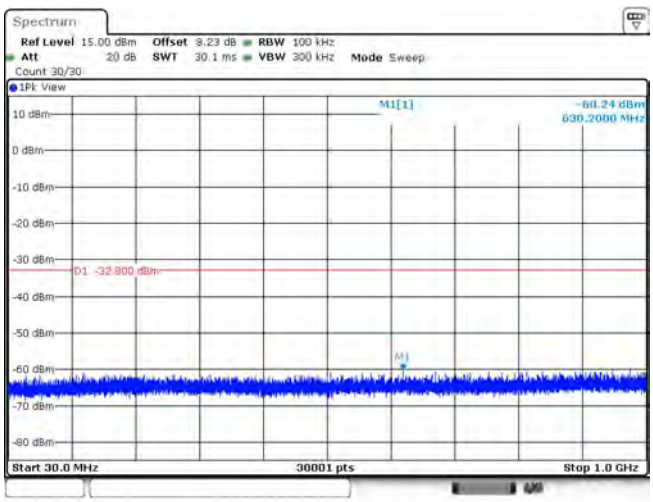
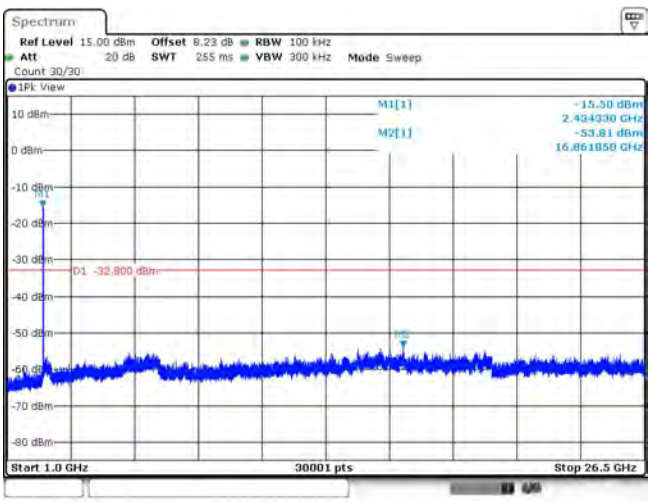
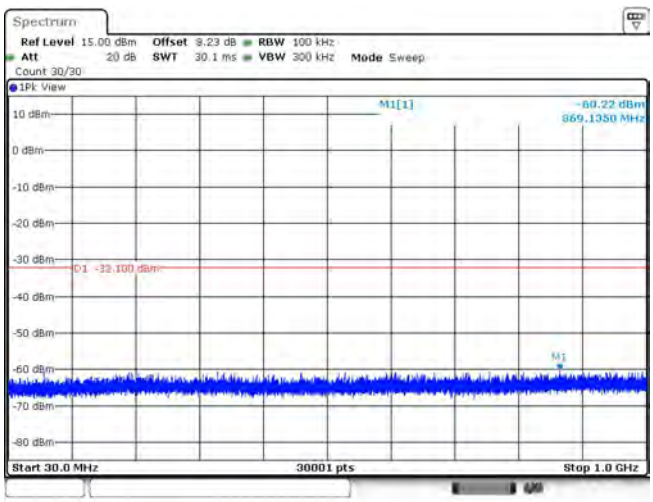
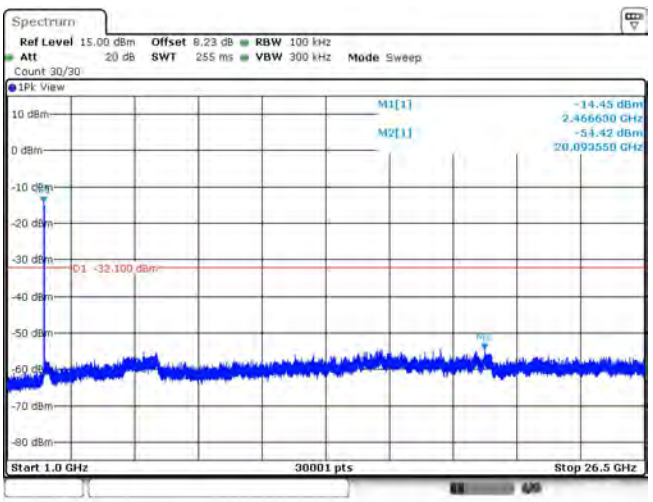
802.11g
CH01-SE
 
CH06-SE
 
CH11-SE
 

Add：West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China
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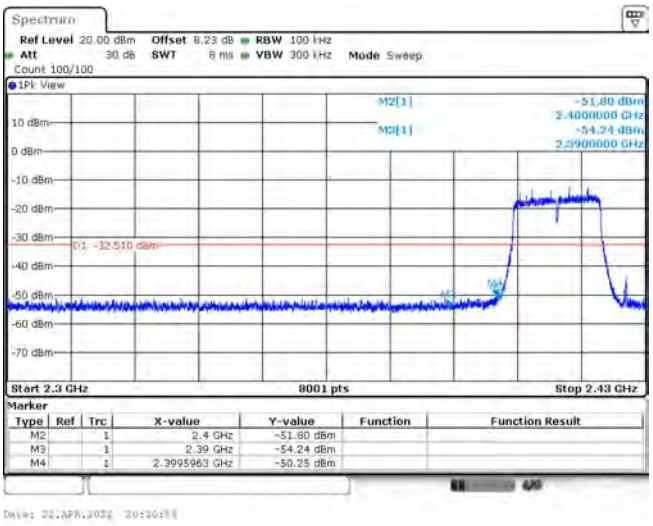
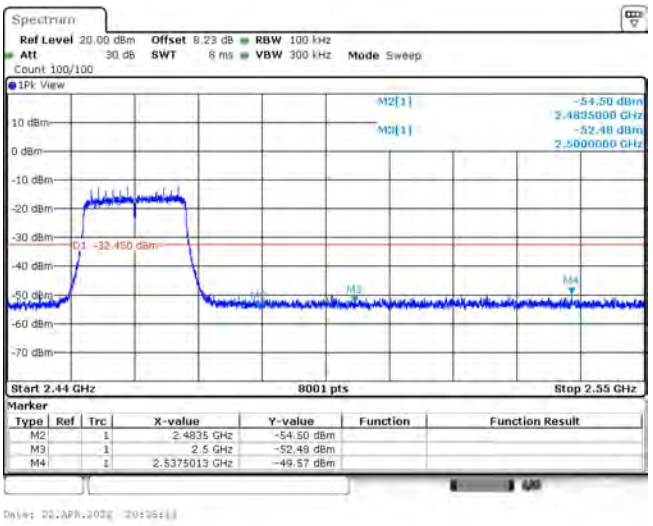
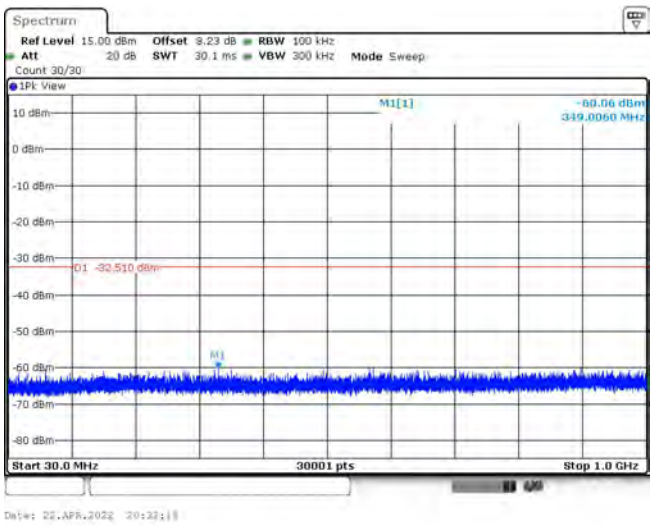
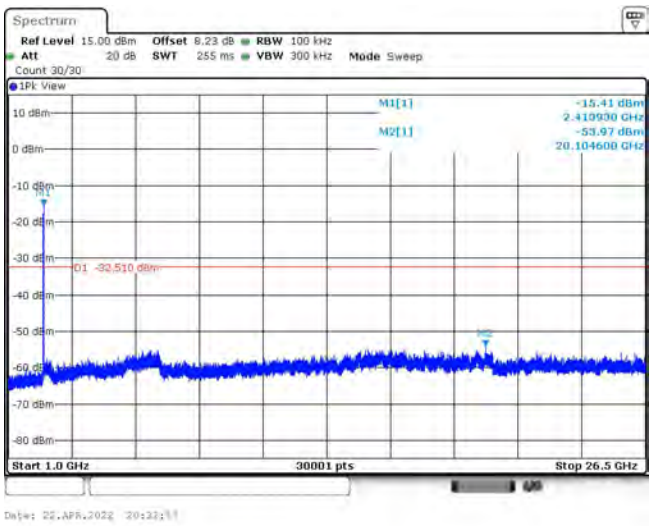
802.11n(HT20)	
CH01-Bandedge	CH11-Bandedge
	

802.11n(HT20)	
CH01-SE	
	

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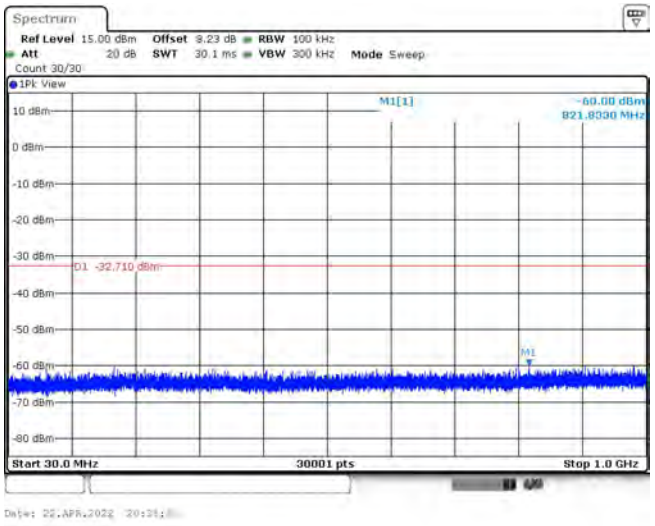
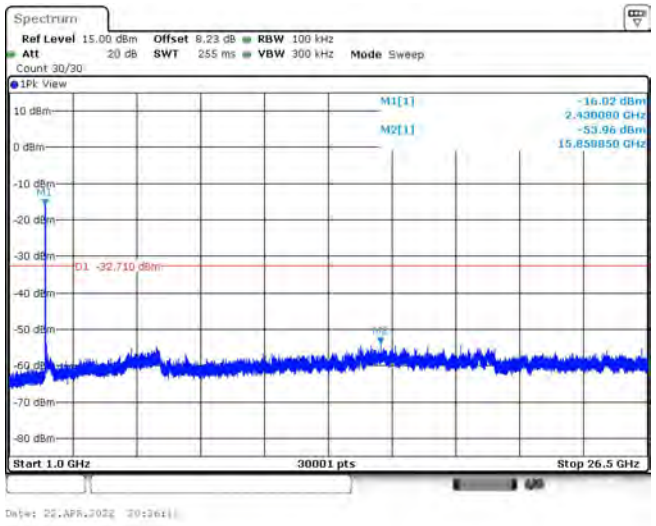
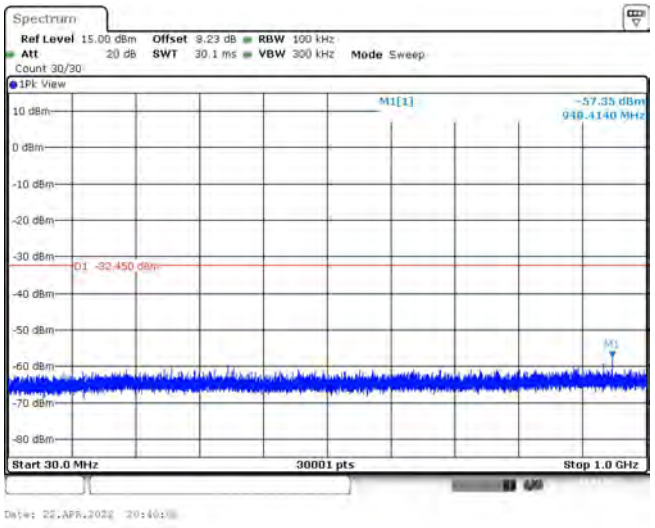
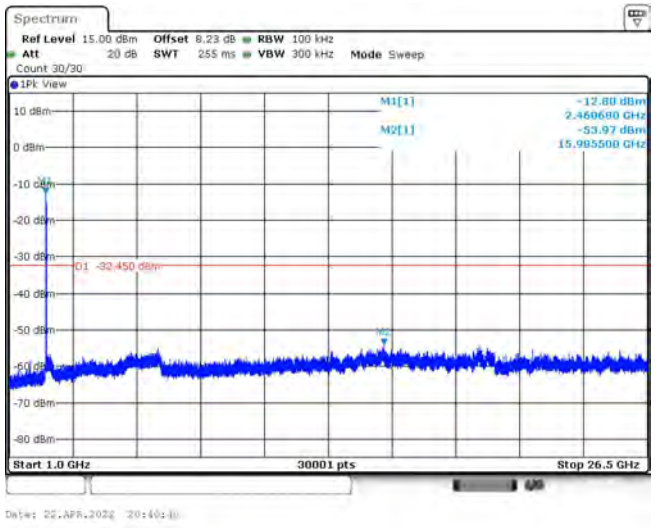
CH06-SE





CH11-SE





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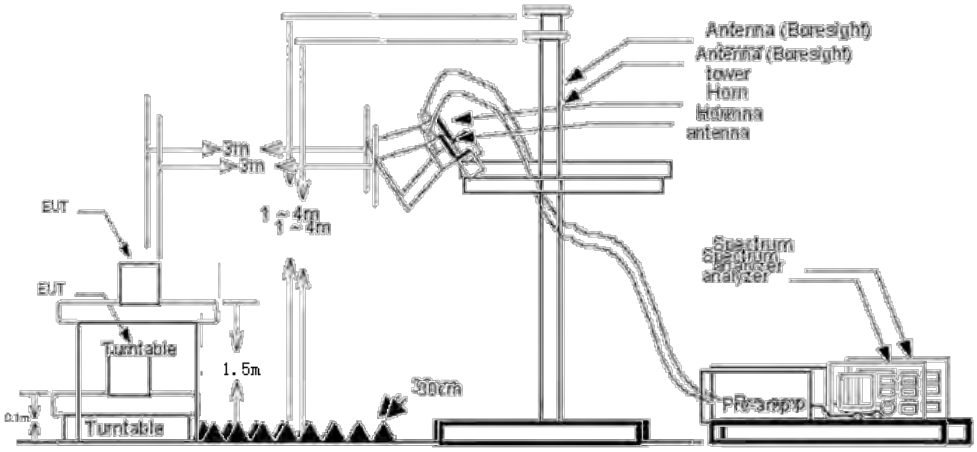
3.6. BAND EDGE EMISSIONS(RADIATED)

Limit

Restricted Frequency Band (MHz)	(dBuV/m)(at 3m)	
	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54
Note: All restriction bands have been tested, only the worst case is reported.		

Test Configuration



Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
5. The receiver set as follow:
   RBW=1MHz, VBW=3MHz PEAK detector for Peak value.
   RBW=1MHz, VBW=10Hz with PEAK detector for Average Value.

Test Mode

Please refer to the clause 2.2.

Test Results

Note:

1.Measurement = Reading level + Correct Factor

Correct Factor=Antenna Factor + Cable Loss - Preamplifier Factor

2.Pre-scan 802.11b, 802.11g, 802.11n(HT20) and 802.11n (HT40) mode, and found the 802.11b mode which it is worse case, so only show the test data for worse case.

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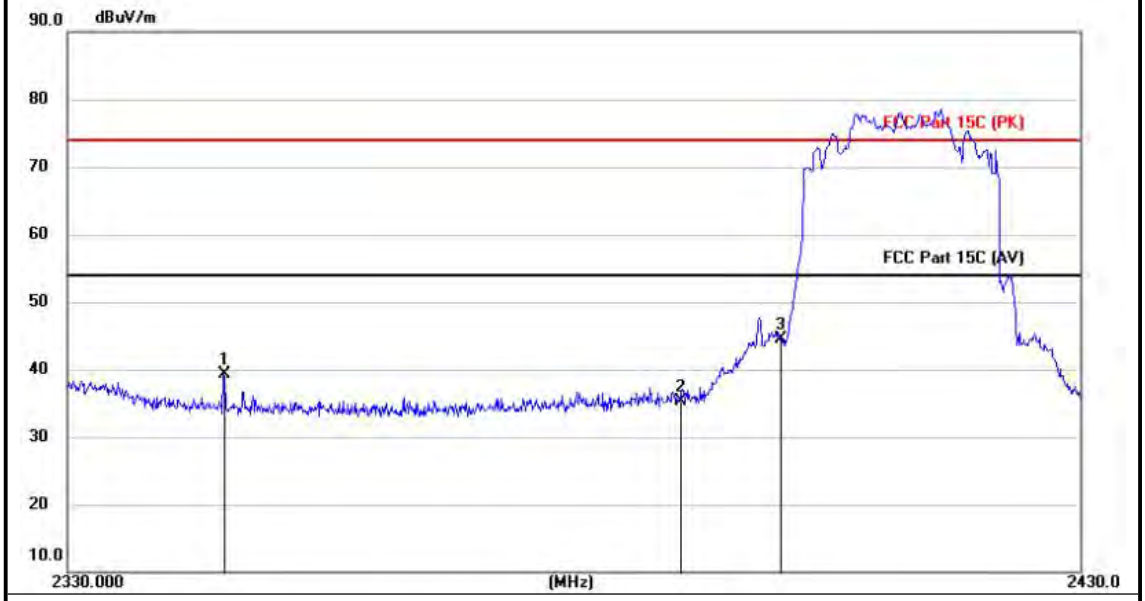
Test Voltage:	DC 3.65V
Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2412MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		2345.150	50.32	-10.93	39.39	74.00	-34.61	peak
2		2390.000	46.27	-10.92	35.35	74.00	-38.65	peak
3	*	2400.000	55.36	-10.92	44.44	74.00	-29.56	peak

Measurement = Reading level + Correct Factor

Add：West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China
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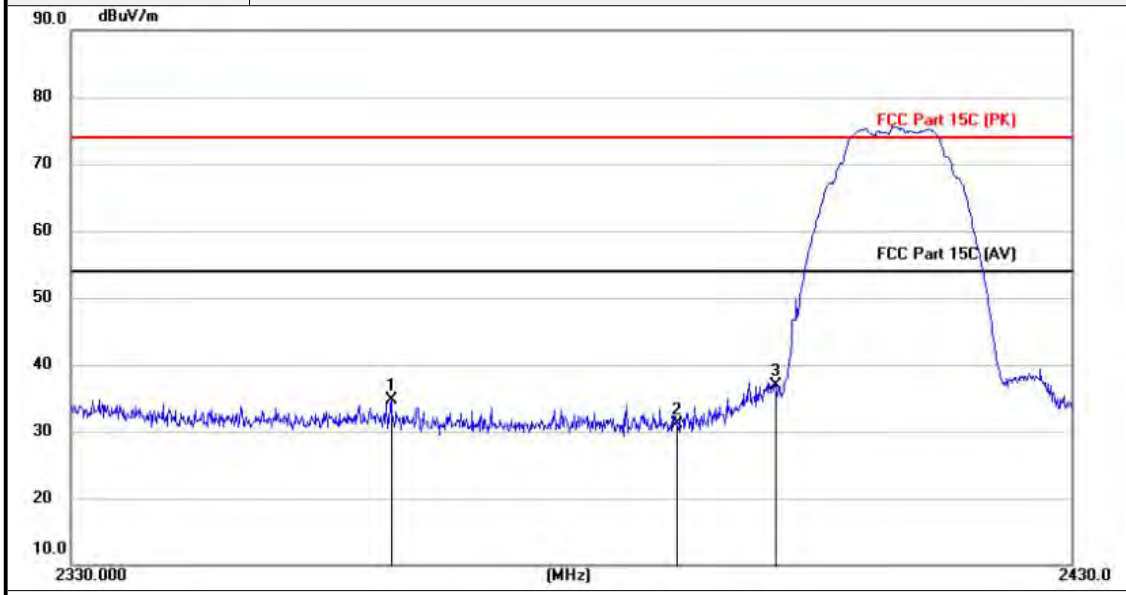
Test Voltage:	DC 3.65V
Ant. Pol.	Vertical
Test Mode:	TX 802.11b Mode 2412 MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		2361.560	45.60	-10.93	34.67	74.00	-39.33	peak
2		2390.000	42.01	-10.92	31.09	74.00	-42.91	peak
3	*	2400.000	47.90	-10.92	36.98	74.00	-37.02	peak

Measurement = Reading level + Correct Factor

Add：West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China
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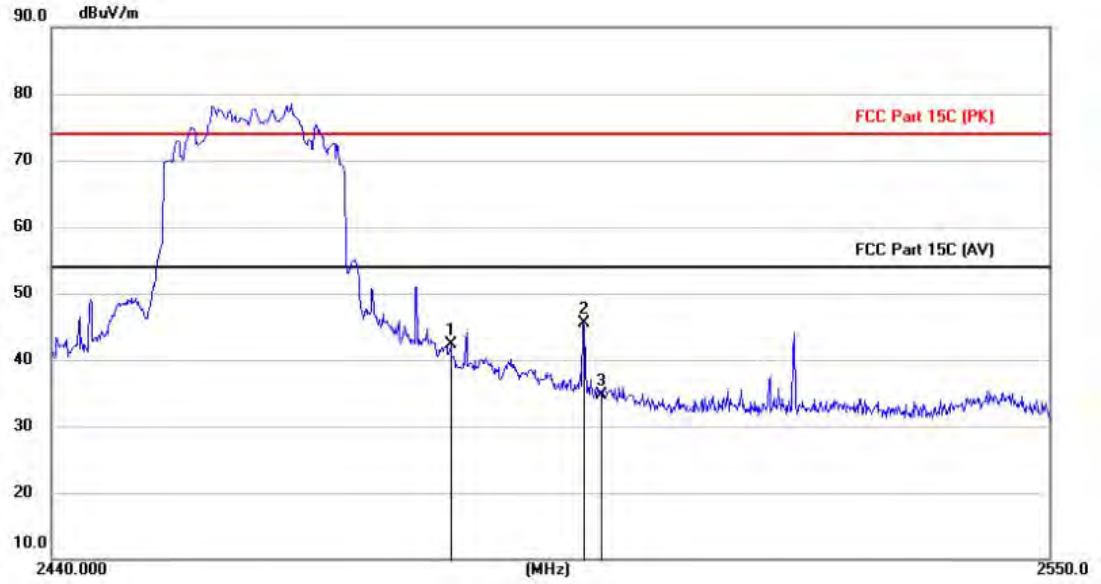
Test Voltage:	DC 3.65V
Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2462MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		2483.500	53.15	-10.88	42.27	74.00	-31.73	peak
2	*	2498.091	56.47	-10.88	45.59	74.00	-28.41	peak
3		2500.000	45.59	-10.88	34.71	74.00	-39.29	peak

Measurement = Reading level + Correct Factor

Add：West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China
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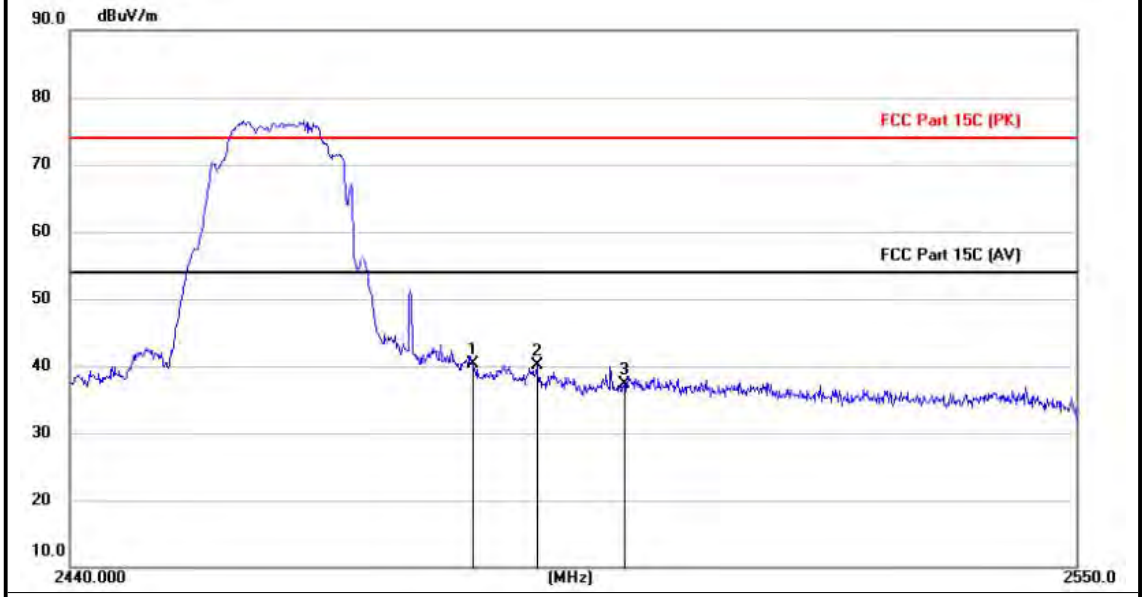
Test Voltage:	DC 3.65V
Ant. Pol.	Vertical
Test Mode:	TX 802.11b Mode 2462MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1	*	2483.500	51.14	-10.88	40.26	74.00	-33.74	peak
2		2490.490	50.95	-10.89	40.06	74.00	-33.94	peak
3		2500.000	48.21	-10.88	37.33	74.00	-36.67	peak

Measurement = Reading level + Correct Factor

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3.7. SPURIOUS EMISSION (RADIATED)

Limit

Radiated Emission Limits (9 kHz~1000 MHz)

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Radiated Emission Limit (Above 1000MHz)

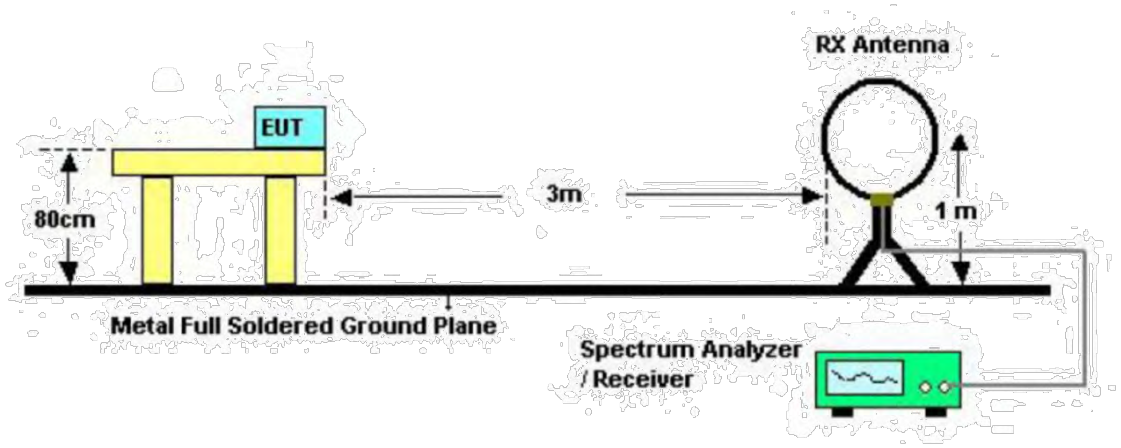
Frequency (MHz)	Distance Meters(at 3m)	
	Peak	Average
Above 1000	74	54

Note:

(1) The tighter limit applies at the band edges.

(2) Emission Level (dBuV/m)=20log Emission Level (uV/m).

Test Configuration



Below 30MHz Test Setup

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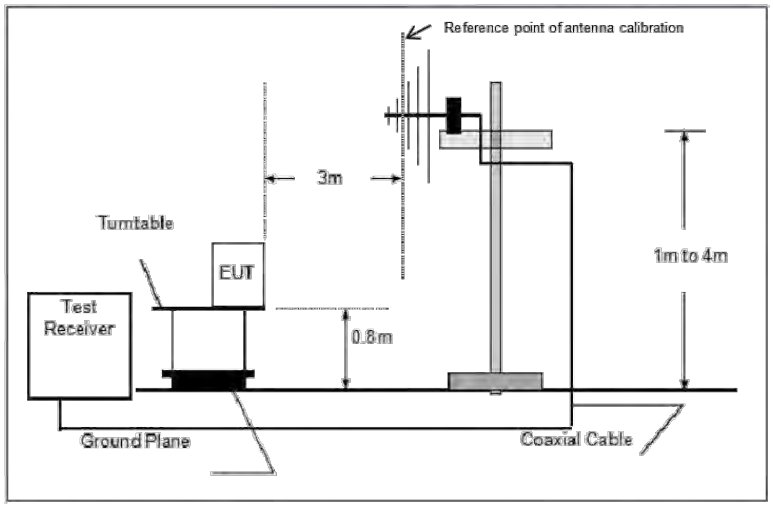
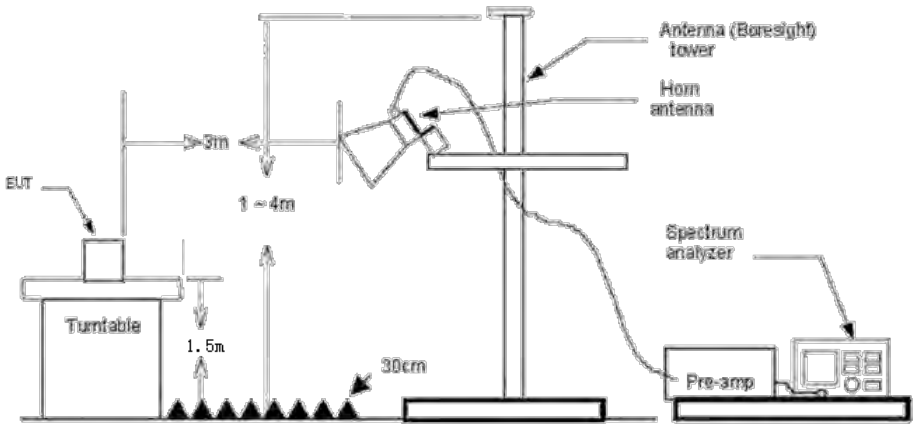


Below 1000MHz Test Setup



Above 1GHz Test Setup

Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
   (1) Span shall wide enough to fully capture the emission being measured;

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(2) Below 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;

If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

(3) From 1 GHz to 10th harmonic:

RBW=1MHz, VBW=1MHz Peak detector for Peak value.

RBW=1MHz, VBW=10Hz Peak detector for Peak value.

Test Mode

Please refer to the clause 2.2.

Test Result

9 KHz~30 MHz and 18GHz~25GHz

From 9 KHz~30 MHz and 18GHz~25GHz: Conclusion: PASS

Note:

1) Measurement = Reading level + Correct Factor

Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor

2) The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.

3) The emission levels of other frequencies are very lower than the limit and not show in test report.

4) The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

5) Pre-scan 802.11b/g/n(HT20,HT40) modulation, and found the 802.11b modulation which it is worse case for above 1GHz, 2412MHz channel which it is worse case for below 1GHz, so only show the test data for worse case.

BELOW 30MHz

No emission found between lowest internal used/generated frequencies to 30MHz.

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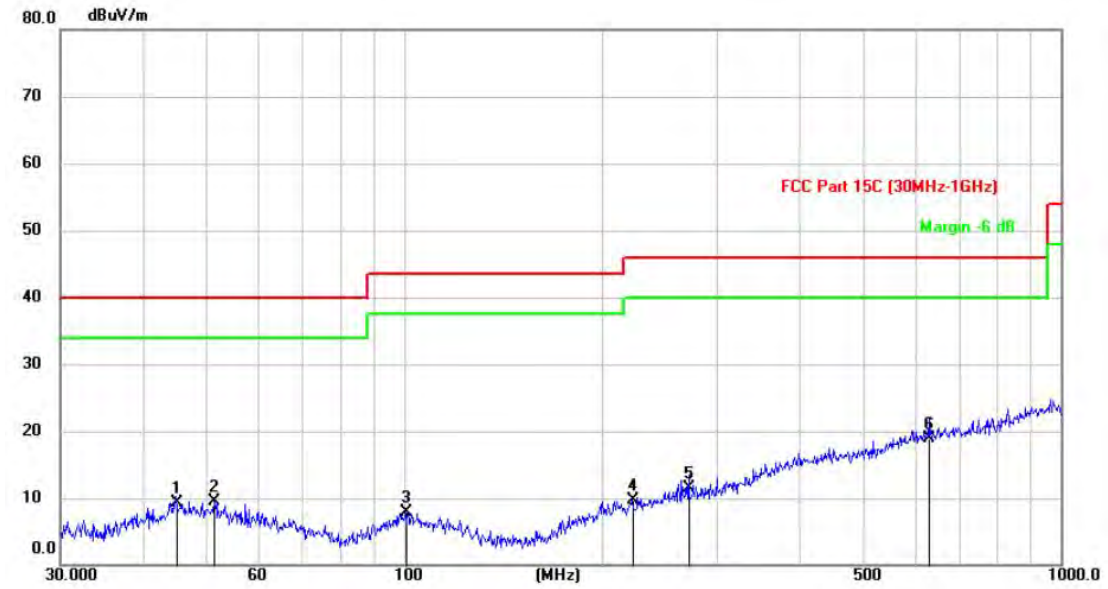
30MHz-1GHz

Test Voltage:	DC 3.65V
Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2412MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		45.0108	25.34	-16.07	9.27	40.00	-30.73	QP
2		51.4806	25.45	-15.95	9.50	40.00	-30.50	QP
3		100.8983	25.59	-17.71	7.88	43.50	-35.62	QP
4		222.8720	26.63	-16.98	9.65	46.00	-36.35	QP
5		271.8004	26.72	-15.31	11.41	46.00	-34.59	QP
6	*	631.4669	26.37	-7.47	18.90	46.00	-27.10	QP

Measurement = Reading Level+ Correct Factor

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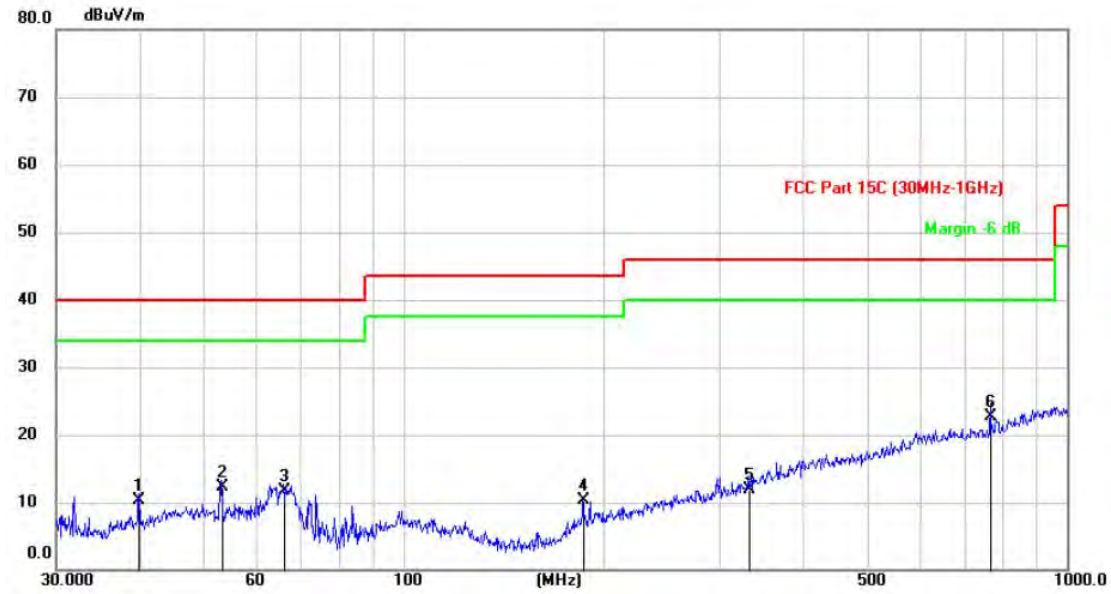
Test Voltage:	DC 3.65V
Ant. Pol.	Vertical
Test Mode:	TX 802.11b Mode 2412MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		39.9941	27.49	-17.11	10.38	40.00	-29.62	QP
2		53.2618	28.65	-16.33	12.32	40.00	-27.68	QP
3		66.2197	30.54	-18.91	11.63	40.00	-28.37	QP
4		186.7024	28.96	-18.64	10.32	43.50	-33.18	QP
5		332.2855	25.15	-13.28	11.87	46.00	-34.13	QP
6	*	766.8635	29.19	-6.44	22.75	46.00	-23.25	QP

Measurement = Reading Level+ Correct Factor

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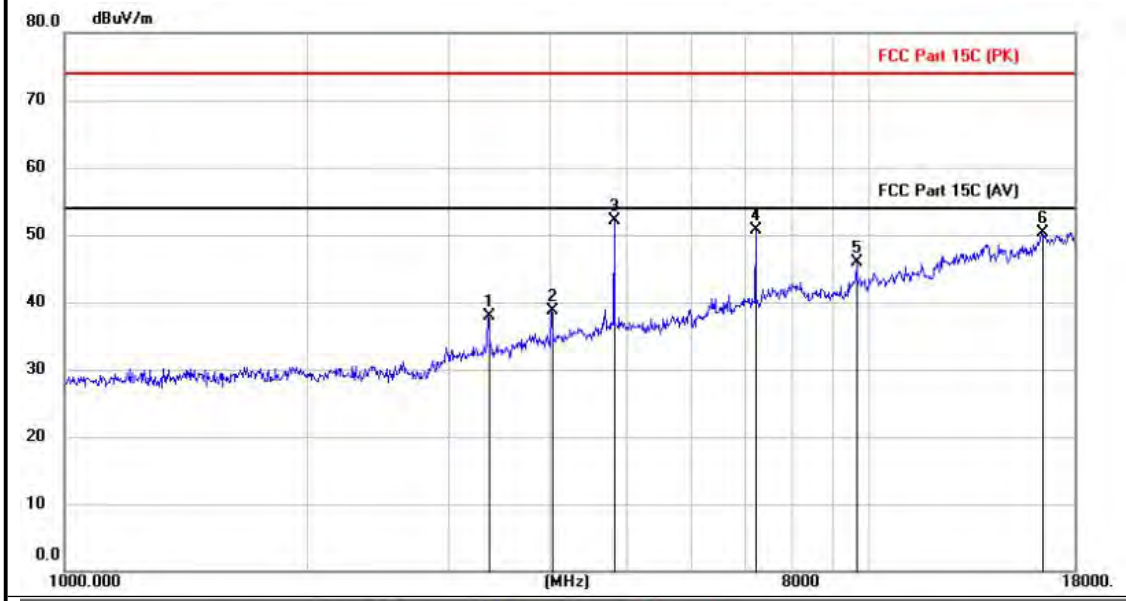
Above 1GHz

Test Voltage:	DC 3.65V
Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2412MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		3359.600	47.86	-9.93	37.93	74.00	-36.07	peak
2		4031.100	47.01	-8.32	38.69	74.00	-35.31	peak
3	*	4823.300	58.03	-5.87	52.16	74.00	-21.84	peak
4		7235.600	50.68	0.01	50.69	74.00	-23.31	peak
5		9647.900	42.53	3.30	45.83	74.00	-28.17	peak
6		16385.000	36.81	13.53	50.34	74.00	-23.66	peak

Measurement = Reading level + Correct Factor

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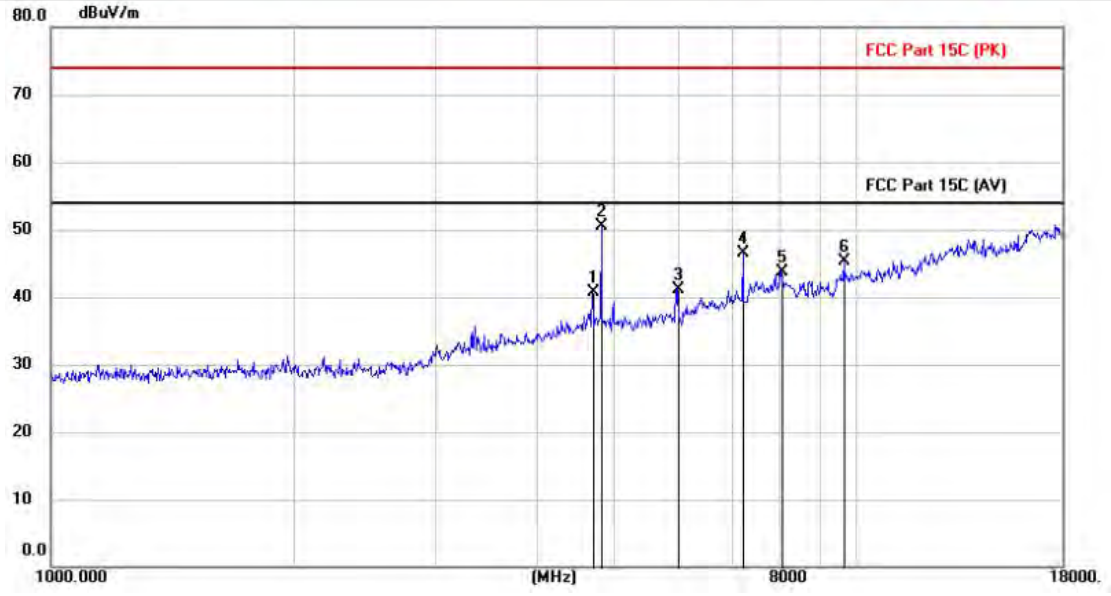
Test Voltage:	DC 3.65V
Ant. Pol.	Vertical
Test Mode:	TX 802.11b Mode 2412MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		4704.300	46.99	-6.19	40.80	74.00	-33.20	peak
2	*	4823.300	56.37	-5.87	50.50	74.00	-23.50	peak
3		5989.500	45.00	-3.82	41.18	74.00	-32.82	peak
4		7235.600	46.52	0.01	46.53	74.00	-27.47	peak
5		8080.500	41.70	2.06	43.76	74.00	-30.24	peak
6		9647.900	42.00	3.30	45.30	74.00	-28.70	peak

Measurement = Reading level + Correct Factor

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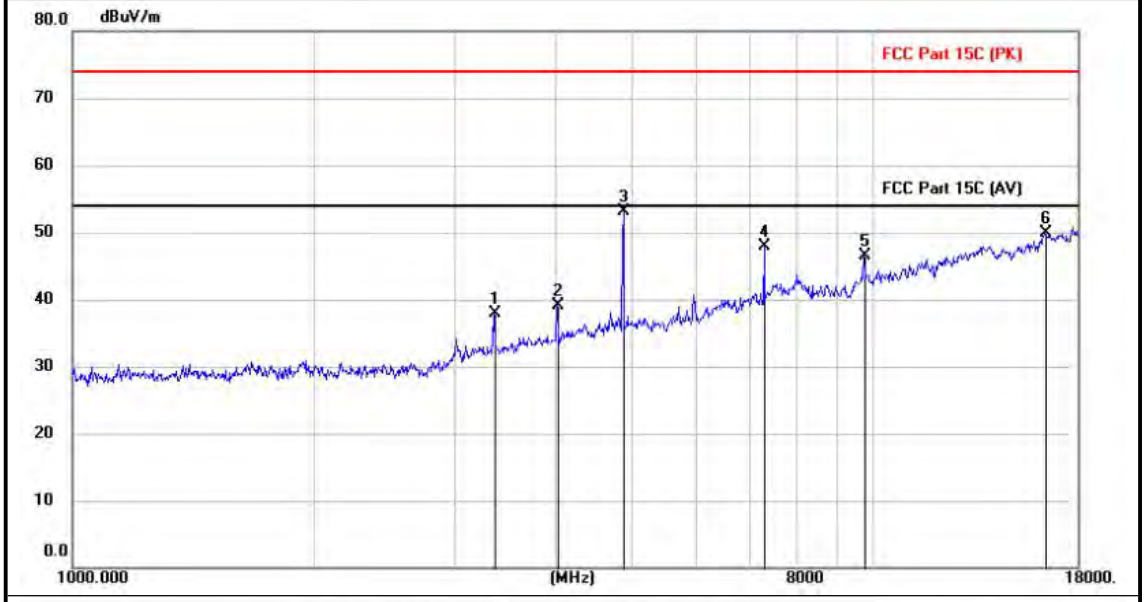
Test Voltage:	DC 3.65V
Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2437MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		3361.300	47.92	-9.93	37.99	74.00	-36.01	peak
2		4031.100	47.46	-8.32	39.14	74.00	-34.86	peak
3	*	4874.300	58.86	-5.74	53.12	74.00	-20.88	peak
4		7312.100	47.59	0.24	47.83	74.00	-26.17	peak
5		9748.200	43.05	3.52	46.57	74.00	-27.43	peak
6		16400.300	36.27	13.57	49.84	74.00	-24.16	peak

Measurement = Reading level + Correct Factor

Add：West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China
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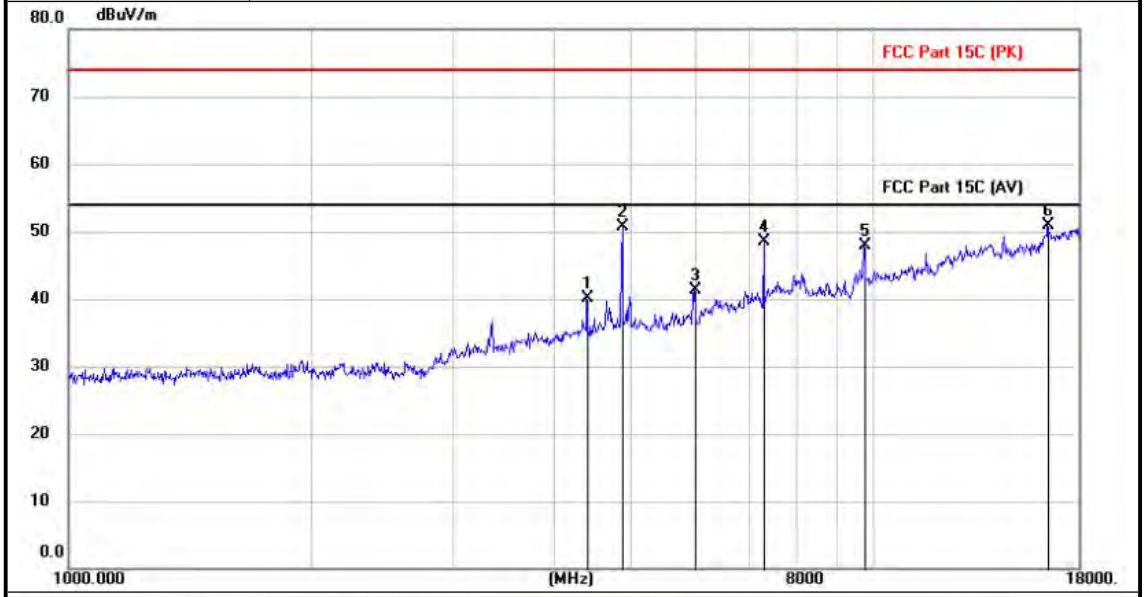
Test Voltage:	DC 3.65V
Ant. Pol.	Vertical
Test Mode:	TX 802.11b Mode 2437MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		4411.900	47.10	-7.05	40.05	74.00	-33.95	peak
2		4874.300	56.47	-5.74	50.73	74.00	-23.27	peak
3		5994.600	45.09	-3.81	41.28	74.00	-32.72	peak
4		7310.400	48.37	0.23	48.60	74.00	-25.40	peak
5		9748.200	44.48	3.52	48.00	74.00	-26.00	peak
6	*	16458.100	37.11	13.71	50.82	74.00	-23.18	peak

Measurement = Reading level + Correct Factor

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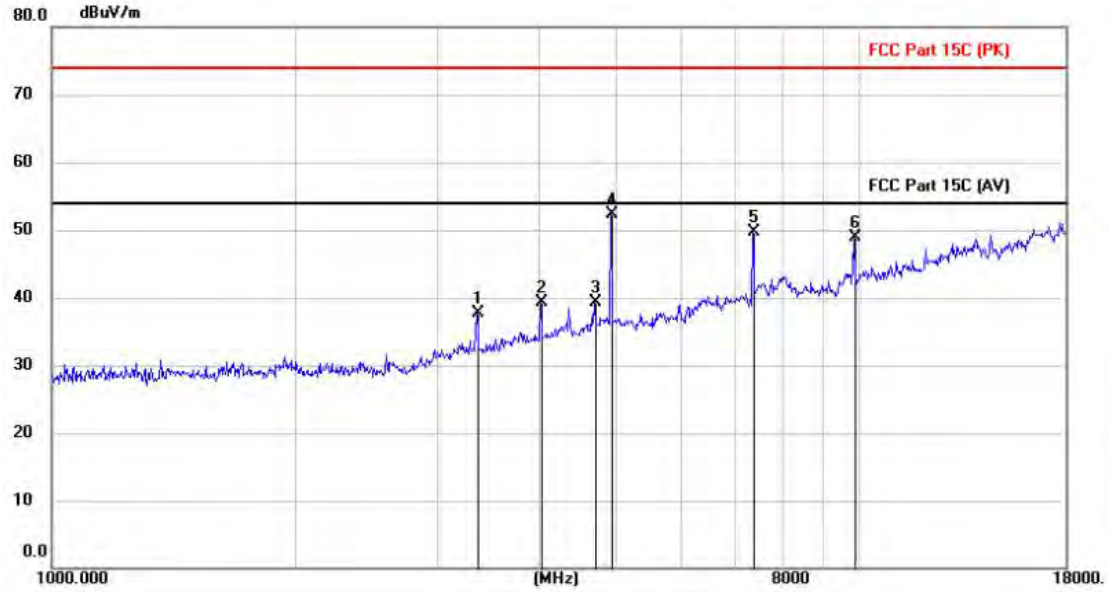
Test Voltage:	DC 3.65V
Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2462MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		3359.600	47.60	-9.93	37.67	74.00	-36.33	peak
2		4031.100	47.59	-8.32	39.27	74.00	-34.73	peak
3		4702.600	45.49	-6.19	39.30	74.00	-34.70	peak
4	*	4923.600	57.90	-5.60	52.30	74.00	-21.70	peak
5		7385.200	49.16	0.47	49.63	74.00	-24.37	peak
6		9848.500	45.16	3.74	48.90	74.00	-25.10	peak

Measurement = Reading level + Correct Factor

Add：West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China
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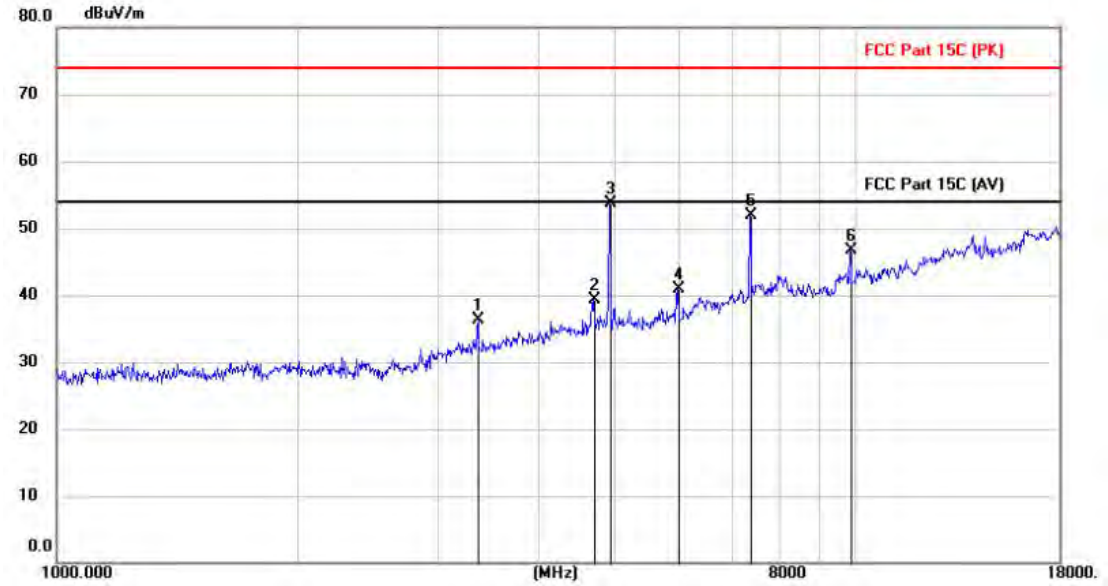
Test Voltage:	DC 3.65V
Ant. Pol.	Vertical
Test Mode:	TX 802.11b Mode 2462MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		3373.200	46.20	-9.91	36.29	74.00	-37.71	peak
2		4697.500	45.53	-6.22	39.31	74.00	-34.69	peak
3	*	4923.600	59.38	-5.60	53.78	74.00	-20.22	peak
4		5992.900	44.71	-3.81	40.90	74.00	-33.10	peak
5		7385.200	51.34	0.47	51.81	74.00	-22.19	peak
6		9848.500	42.89	3.74	46.63	74.00	-27.37	peak

Measurement = Reading level + Correct Factor

Add：West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China
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3.8. CONDUCTED EMISSION

Limit

Conducted Emission Test Limit

Frequency	Maximum RF Line Voltage (dBμV)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

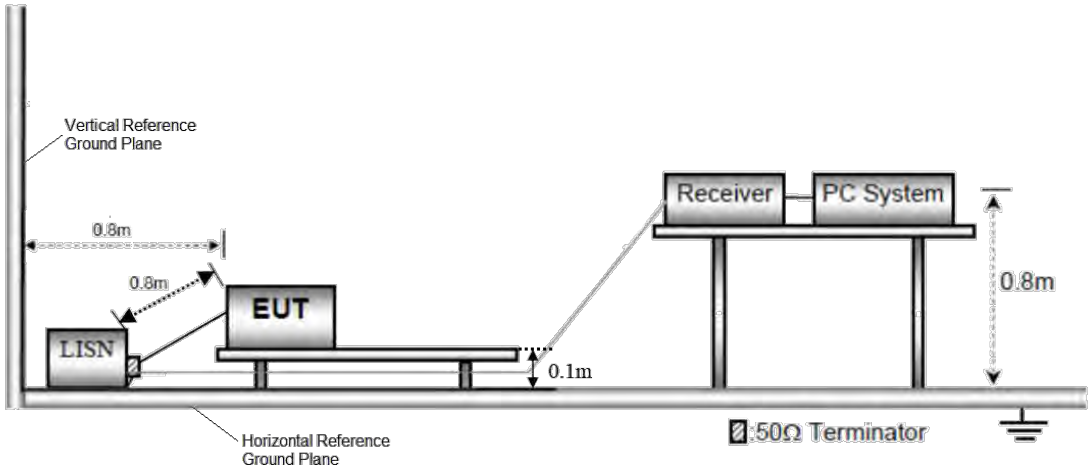
Notes:

(1) *Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequencies.

(3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

Test Configuration



Test Procedure

1. The EUT was setup according to ANSI C63.10:2013 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 0.1m above the conducting ground plane. The vertical conducting plane was located 80 cm to the rear of the EUT. All other surfaces of EUT were at least 0.8m from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment.
   The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
7. During the above scans, the emissions were maximized by cable manipulation.

Test Mode:

Please refer to the clause 2.2.

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Test Results

Note: The device is powered by an internal battery, so this item is not available.

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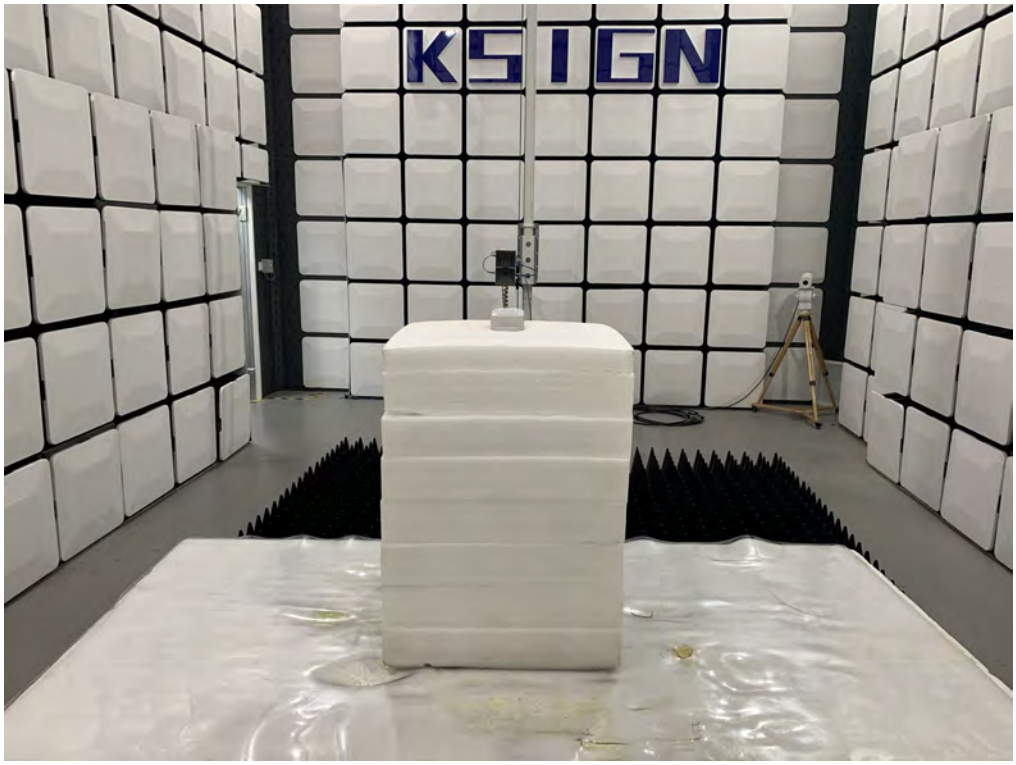
4.EUT TEST PHOTOS

Radiated Emissions (30MHz~1000MHz)

Radiated Emissions (Above 1GHz)



Add：West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China
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5.PHOTOGRAPHS OF EUT CONSTRUCTIONAL

Please refer to the report Report No.: KS2204S1365E01

--THE END--

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