

# **TEST REPORT**

Product Name Model Numbe FCC ID	r	: Wireless IP Camera : X5, X5P : ZDEX5
Prepared for Address	:	ShenZhen Foscam Intelligent Technology Co., Ltd Room 902,Building 1B, Shenzhen International innovationValley, Xingke 1st Street, Nanshan District, Shenzhen,Guangdong, China, 518055.
Prepared by Address	::	EMTEK (DONGGUAN) Co., Ltd. -1&2/F.,Buiding 2,Zone A,Zhongda Marine Biotechnology Research and Development Base,N.9,Xincheng Avenue,Songshanhu High-technology Industrial Development Zone, Dongguan, Guangdong, China TEL: +86-0769-22807078 FAX: +86-0769-22807079
Report Number		FDG2406070166F00601R

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Date(s) of Tests	:	June 07, 2024 to July 25, 2024
Date of issue	:	July 25, 2024



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#### 1 **TEST RESULT CERTIFICATION**

Applicant	:	ShenZhen Foscam Intelligent Technology Co., Ltd
Address	:	Room 902,Building 1B, Shenzhen International innovationValley, Xingke 1st Street, Nanshan District, Shenzhen,Guangdong, China, 518055.
Manufacturer	:	ShenZhen Foscam Intelligent Technology Co., Ltd
Address	:	Room 902,Building 1B, Shenzhen International innovationValley, Xingke 1st Street, Nanshan District, Shenzhen,Guangdong, China, 518055.
Factory	:	ShenZhen Foscam Intelligent Technology Co., Ltd
Address	:	4/F,Block 1, Security & Surveillance Intelligent (China) industrialpark, Gongchang Road, Zhenmei Community, Guangming Newdistrict, Shenzhen.
EUT	:	Wireless IP Camera
Model Name	:	X5, X5P
Trademark	:	FOSCAM

### Measurement Procedure Used:

APPLICABLE STANDARDS				
STANDARD	TEST RESULT			
FCC 47 CFR Part 2 , Subpart J FCC 47 CFR Part 15, Subpart C	PASS			
IC RSS-GEN, Issue 5(04-2018)+A1(03-2019)+A2(02-2021) IC RSS-247 Issue 3(08-2023)	PASS			

The above equipment was tested by EMTEK (DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2, Part 15.247, IC RSS-247 Issue 2 and IC RSS-GEN, Issue 5.

Date of Test :	June 07, 2024 to July 25, 2024
Prepared by :	Warren Deng
	Warren Deng /Editor
	Tim Dong
Reviewer :	Tim Dong /Supervisor
	All
Approve & Authorized Signer :	Sam Lv / Manager



## **Modified History**

Version	Report No.	Revision Date	Summary
V1.0	EDG2406070166E00601R	/	Original Report



 东莞市信測科技有限公司

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 EMTEK(Dongguan) Co., Ltd.

 Add: -182/F ...,Building 2,Zone A,Zhongda Marine Biotechnology Research and Development Base ,No.9, Xincheng Avenue,Songshanhu High-technology Industrial Development Zone,
 Dongguan, Guangdong,China Http://www.emtek.com.cn



#### **EUT TECHNICAL DESCRIPTION** 2

Characteristics	Description			
Product:	Wireless IP Camera			
Model Number:	X5, X5P (The Model: X5 is the same as the Model: X5P in hardware aspect. The difference in model number serves as marketing strategy.)			
Sample Number:	<i>‡</i>			
IEEE 802.11 WLAN Mode Supported:	.11b .11g .11n(20MHz channel bandwidth) .11n(40MHz channel bandwidth)			
Modulation:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;			
Operating Frequency Range:	12-2462MHz for 802.11b/g/n(HT20); 122-2452MHz for 802.11n(HT40);			
Number of Channels:	channels for 802.11b/g/n(HT20); Channels for 802.11n(HT40);			
Transmit Power Max:	78 dBm(0.005998 mW)			
Hardware Version:	6.0			
Antenna Type:	FPC Antenna			
Antenna Gain:	3.19 dBi			
Power Supply:	DC 5V 1A from Adapter			
Date of Received	June 07, 2024			
Temperature Range	0°C ~ +40°C			

Note: for more details, please refer to the User's manual of the EUT.



## **3 SUMMARY OF TEST RESULT**

FCC Part Clause	IC Part Clause	Test Parameter	Verdict	Remark
15.247(a)(2)	RSS-247 5.2(a) RSS-Gen 6.7	Emission Bandwidth	PASS	
15.247(b)(3)	RSS-247 5.4(d) RSS-Gen 6.12	Maximum Peak Conducted Output Power	PASS	
15.247(e)	RSS-247 5.2(b) RSS-Gen 6.12	Maximum Power Spectral Density Level	PASS	
15.247(d)	RSS-247 5.5	Unwanted Emission Into Non-Restricted Frequency Bands	PASS	
15.247(d)	RSS-247 5.5	Unwanted Emission Into Restricted Frequency Bands (conducted)	PASS	
15.247(d) 15.209 15.205	RSS-Gen 8.9 RSS-Gen 8.10 RSS-Gen 6.13 RSS-247 3.3 RSS-247 5.5	Radiated Spurious Emission	PASS	
15.207	RSS-Gen 8.8	Conducted Emission Test	PASS	
15.203 15.247(b)	RSS-Gen 6.8 RSS-247 5.4	Antenna Application	PASS	
NOTE2: Acc		KDB 558074, the report use radiated me		

restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for **FCC ID: ZDEX5** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.



## 4 TEST METHODOLOGY

#### 4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards: FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C IC RSS-GEN, Issue 5(04-2018)+A1(03-2019)+A2(02-2021) IC RSS-247 Issue 3(08-2023) FCC KDB 558074 D01 15.247 Meas Guidance v05r02 FCC KDB 662911 D01 Multiple Transmitter Output v02r01

#### 4.2 MEASUREMENT EQUIPMENT USED Conducted Emission Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde&Schwarz	ESCI	100137	2024/4/29	1Year
Signal Analyzer	R&S	FSV30	103039	2024/4/28	1 Year
AMN	Rohde&Schwarz	ENV216	101209	2024/4/28	1Year
AMN	Rohde&Schwarz	ENV216	100017	2024/4/28	1Year
RF Switching Unit	CDS	RSU-M2	38401	2024/4/28	1Year
AMN	Schwarzbeck	NNLK8121	8121-641	2024/4/28	1Year
AMN	Rohde&Schwarz	ESH3-Z6	101101	2024/4/28	1Year
AMN	Rohde&Schwarz	ESH3-Z6	101102	2024/4/28	1Year
Power Splitters & Dividers	Weinschel Associates	WA1506A	A1066	2024/4/28	1Year
Current Probe	FCC	F-52	8377	2024/4/28	1Year
Passive voltage probe	Rohde&Schwarz	ESH2-Z3	100122	2024/4/28	1Year

#### For Spurious Emissions Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde&Schwarz	ESCI	101415	2024/4/28	1Year
Signal Analyzer	R&S	FSV30	103039	2024/4/28	1 Year
Bi-log Hybrid Antenna	Schwarzbeck	VULB9163	141	2024/5/5	1Year
Pre-Amplifie	HP	8447F	OPTH64	2024/4/28	1 Year
Signal Analyzer	R&S	FSV30	103039	2024/4/28	1 Year
Horn Antenna	Schwarzbeck	BBHA9120D	1272	2024/5/5	1Year
Horn Antenna	Schwarzbeck	BBHA9170	9170-567	2024/5/5	1Year
Pre-Amplifie	LUNAR EM	PM1-18-40	J1010000081	2024/4/28	1Year
Loop antenna	Schwarzbeck	FMZB1519	1519-012	2024/5/5	1Year

#### For other test items:

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Wireless Connectivity Tester	R&S	CMW270	102543	2024/4/29	1Year
Automatic Control Unit	Tonscend	JS0806-2	2118060480	2024/4/29	1Year
Signal Analyzer	KEYSIGHT	N9010B	MY60242456	2024/4/29	1Year
Analog Signal Generator	KEYSIGHT	N5173B	MY61252625	2024/4/29	1Year
UP/DOWN-Converter	R&S	CMW-Z800A	100274	2024/4/29	1Year
Vector Signal Generator	KEYSIGHT	N5182B	MY61252674	2024/4/29	1Year
Frequency Extender	KEYSIGHT	N5182BX07	MY59362541	2024/4/29	1Year
Temperature&Humidity test chamber	ESPEC	EL-02KA	12107166	2024/4/29	1 Year

**Remark:** Each piece of equipment is scheduled for calibration once a year.



#### 4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n (HT20): MCS0; 802.11n (HT40): MCS0; 802.11ax (HE20): MCS0; 802.11ax (HE40): MCS0;) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447		

Frequency and Channel list for 802.11 b/g/n(HT20):

#### Frequency and Channel list for 802.11n(HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	6	2437	9	2452
4	2427	7	2442		
5	2432	8	2447		

#### Test Frequency and Channel for 802.11 b/g/n(HT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	6	2437	11	2462

#### Test Frequency and channel for 802.11n(HT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	6	2437	9	2452

Multi-antenna correlation:

Transmit Signals are Correlated
Directional gain = 10 log[(10 <sup>G1/20</sup> + 10 <sup>G2/20</sup> + + 10 <sup>GN/20</sup> )2 /N <sub>ANT</sub> ] dBi
All Transmit Signals are Completely Uncorrelated
Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + + 10^{GN/10})/N_{ANT}] dBi$



#### FACILITIES AND ACCREDITATIONS 5

#### FACILITIES 5.1

All measurement facilities used to collect the measurement data are located at: EMTEK (DONGGUAN) Co., Ltd.

-1&2/F.,Buiding 2,Zone A,Zhongda Marine Biotechnology Research and Development

Base, N.9, Xincheng Avenue, Songshanhu High-technology Industrial Development Zone, Dongguan,

Guangdong, China

#### 5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

#### 5.3 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
EMC Lab.	<ul> <li>Accredited by CNAS, 2024.07.06         The certificate is valid until 2030.07.05         The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2018         The Certificate Registration Number is L3150         Accredited by FCC         Designation Number: CN1300         Test Firm Registration Number: 945551         Accredited by A2LA, April 05, 2021         The Certificate Registration Number is 4321.02         Accredited by Industry Canada         The Certificate Registration Number is CN0113         </li> </ul>
Name of Firm Site Location	<ul> <li>EMTEK (DONGGUAN) Co., Ltd.</li> <li>-1&amp;2/F.,Building 2, Zone A, Zhongda Marine Biotechnology Research and Development Base, No.9, Xincheng Avenue, Songshanhu High-technology Industrial Development Zone, Dongguan, Guangdong, China</li> </ul>



## **6 TEST SYSTEM UNCERTAINTY**

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Parameter	Measurement Uncertainty		
Radio Frequency	±1x10^-5		
Maximum Peak Output Power Test	±1.0dB		
Conducted Emissions Test	±2.0dB		
Radiated Emission Test	±2.0dB		
Power Density	±2.0dB		
Occupied Bandwidth Test	±1.0dB		
Band Edge Test	±3dB		
All emission, radiated	±3dB		
Antenna Port Emission	±3dB		
Temperature	±0.5°C		
Humidity	±3%		

Measurement Uncertainty for a level of Confidence of 95%

 东赛市信测科技有限公司

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 EMTEK (Dongguan) Co., Ltd.

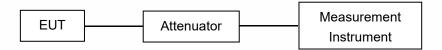
 Add: -1&2/F .,Building 2,Zone A,Zhongda Marine Biotechnology Research and Development Base ,No.9, Xincheng Avenue,Songshanhu High-technology Industrial Development Zone,
 Dongguan, Guangdong,China Http://www.emtek.com.cn
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## 7 SETUP OF EQUIPMENT UNDER TEST

## 7.1 RADIO FREQUENCY TEST SETUP 1

The WLAN component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



#### 7.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is  $0^{\circ}$  to  $360^{\circ}$ , and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

#### Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

#### Above 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is  $0^{\circ}$  to  $360^{\circ}$ , and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

#### Above 1GHz:

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is  $0^{\circ}$  to  $360^{\circ}$ , and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Measurements shall be taken, using the following steps, at a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment (see RSS-Gen for applicable versions of ANSI and CISPR standards). (1) Line the ground plane with absorbers between the transmitter and the receive antenna to minimize reflections. The absorbers used should have a minimum-rated attenuation of 20 dB through the measurement frequency range of interest. The absorbers shall be positioned to replicate the layout used when compliance with the applicable acceptability criterion was achieved, as set forth in the aforementioned standards on site validation.

(2) Set the height of the receive antenna to 1.5 m. The receive antenna must be one that was designed and fabricated to operate over the entire frequency range of interest, for example, an appropriate standard gain horn.

(3) The distance between the receive antenna and the radiating source shall be sufficient in order to ensure far-field conditions.

(4) Mount the transmitter at a height of 1.5 m.

(5) Configure the device under test (DUT) to produce the maximum power spectral density as measured while assessing compliance with Section 6.2.2 (i.e. channel frequency, modulation type and data rate). If the DUT is equipped with a detachable antenna and the antenna is intended for remote installation (i.e.



tower-mounted), the DUT may be substituted with a suitable signal generator. The level and frequency settings on the generator shall be set so as to reproduce the maximum power spectral density, measured within a 1 MHz bandwidth, obtained while assessing compliance to Section 6.2.2.

(6) Position the transmitter or the radiating antenna so that elevation pattern measurements can be taken. (7) Find the 0° reference point in the horizontal plane.

(8) Care should be taken when positioning the receive antenna to avoid cross-polarization. Antennas of known mounting polarization should be assessed with the receive antenna oriented in the same polarity. If the polarization of the transmit antenna is unknown or the transmit antenna can be mounted in either polarization, e.i.r.p. measurements should be performed to find which

mounting polarity provides the highest e.i.r.p. value. Testing shall be carried out with the receive antenna and the DUT mounted in each polarity.

(9) The emission shall be centred on the display of the spectrum analyzer with the following settings: i. If the power spectral density of the DUT was assessed with a peak detector and the antenna cannot be detached from the DUT, the spectrum analyzer shall be set to a peak detector with a resolution bandwidth and video bandwidth of 1 MHz.

ii. If the power spectral density of the DUT was assessed using a sample detector with power averaging and the antenna cannot be detached from the DUT, the spectrum analyzer shall be set to a sample detector, configured to produce 100 power averages and set with a resolution bandwidth, as well as a video bandwidth of 1 MHz.

iii. If the antenna can be detached from the DUT, a continuous wave (CW) signal equal to that of the power spectral density measurement may be used, the spectrum analyzer shall be set to peak detector with a resolution bandwidth and video bandwidth of 1 MHz.

(10) Rotate the turntable 360° recording the field strength at each step. Throughout the main beam of the antenna, the step size shall be kept to a maximum of 1°.

Once outside the main beam of the antenna, the maximum step size shall be as follows, when compared to the requirements of Section 6.2.2:

i. Between 0° and 8°, maximum step size of 2°:

ii. Between 8° and 40°, maximum step size of 4°;

iii. Between 40° and 45°, maximum step size of 1°;

iv. Between 45° and 90°, maximum step size of 5°.

Once the mask reaches 90°, the mask will be inverted and the step size will follow in the same manner as above.

For the purpose of this procedure, the main beam of the antenna is defined as the 3 dB beamwidth. (11) Convert the measured field strength values in terms of e.i.r.p. density (dBW/1 MHz) using the following equation:

e.i.r.p density(dBW/MHz)=10log((E\*r)<sup>2</sup>/30)

E = field strength in V/m

r = measurement distance in metres

(12) Plot the results against the emission mask with reference to the horizontal plane.

(13) Using the plot, the 0° can be rotated to determine the worst-case installation tilt angle.

(14) Testing shall be performed using the highest gain antenna for every antenna type, if applicable.

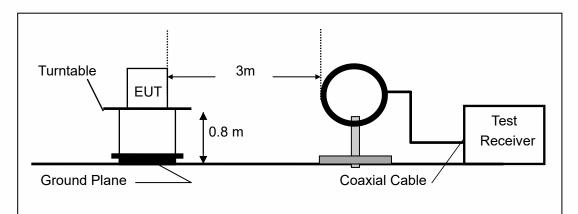
(15) Antenna type(s), antenna model number(s), and worst-case tilt angle(s) necessary to remain compliant with the elevation mask requirement set forth in Section 6.2.2(3) of RSS-247 shall be clearly

indicated in the user manual.

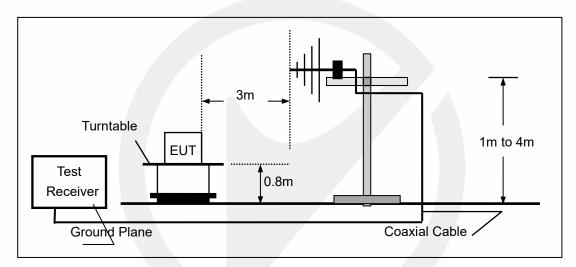
The following figure is an example of a polar elevation mask measured using the Method 1 reference to dBµV/m at 3 m.



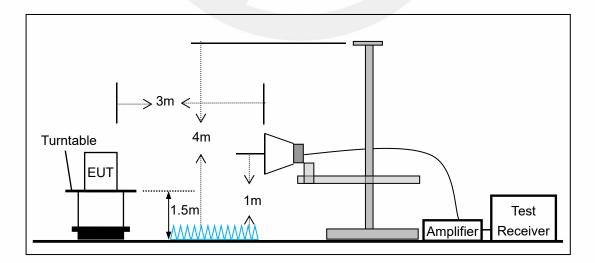
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz



EMTEK (Dongguan) Co., Ltd.

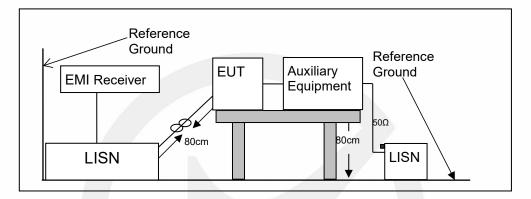


#### 7.3 CONDUCTED EMISSION TEST SETUP

The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

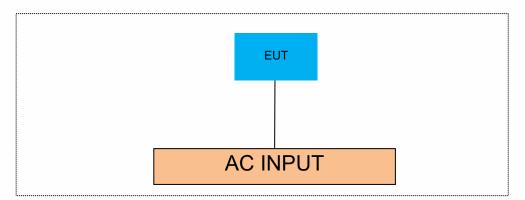
Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.8 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.





## 7.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



#### 7.5 SUPPORT EQUIPMENT

Equipment List and Details						
Description	Manufacturer	Model	Serial Number			
	SHENZHEN KEYU POWER SUPPLY TECHNOLOGY					
AC ADAPTER	CO.,LTD	BS05A-0501000US	/			

Auxiliary Cable List and Details						
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite			
1	1	1	1			

#### Auxiliary Equipment List and Details

, , , ,			
Description	Manufacturer	Model	Serial Number
Notebook	Lenovo	E46L	11S168003748Z0LR0 6E0HG

#### Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



## 8 TEST REQUIREMENTS

#### 8.1 DTS 6DB BANDWIDTH

#### 8.1.1 Applicable Standard

According to FCC Part15.247 (a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 According to RSS-247 5.2(a)

#### 8.1.2 Conformance Limit

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

#### 8.1.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

#### 8.1.4 Test Procedure

The EUT was operating in WIFI mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 100 kHz.

Set the video bandwidth (VBW) =300 kHz.

Set Span=2 times OBW

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

Allow the trace to stabilize.

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Measure and record the results in the test report.

## 8.1.5 Test Results

Temperature:	25°C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Note: N/A



TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.040	2407.960	2416.000	0.5	PASS
11B	Ant1	2437	9.040	2432.480	2441.520	0.5	PASS
11B	Ant1	2462	8.040	2457.960	2466.000	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
11G	Ant1	2437	16.360	2428.800	2445.160	0.5	PASS
11G	Ant1	2462	16.360	2453.800	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.320	2403.440	2420.760	0.5	PASS
11N20SISO	Ant1	2437	17.760	2428.120	2445.880	0.5	PASS
11N20SISO	Ant1	2462	17.560	2453.200	2470.760	0.5	PASS
11N40SISO	Ant1	2422	35.040	2405.120	2440.160	0.5	PASS
11N40SISO	Ant1	2437	35.600	2419.240	2454.840	0.5	PASS
11N40SISO	Ant1	2452	36.000	2433.840	2469.840	0.5	PASS

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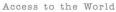
 EMTEK (Dongguan) Co., Ltd.

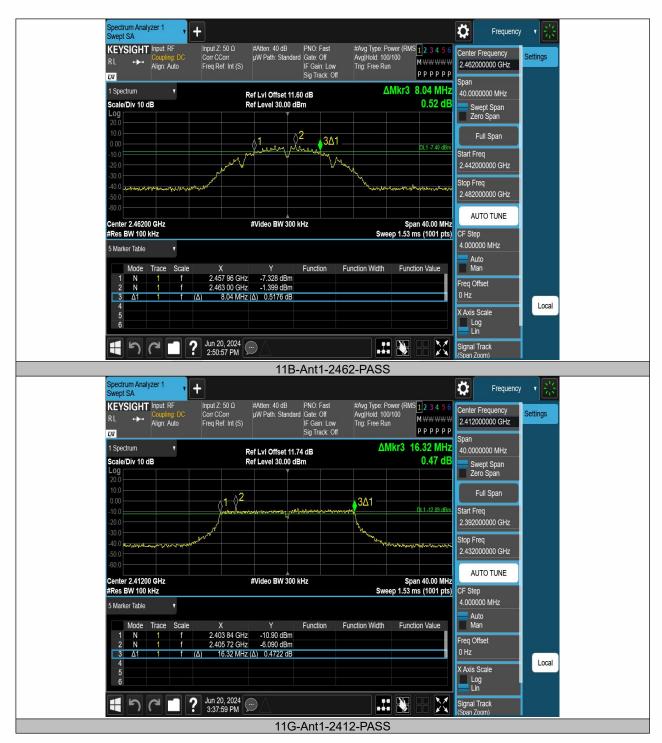
 Add: -1&2/F ...,Building 2,Zone A,Zhongda Marine Biotechnology Research and Development Base ,No.9, Xincheng Avenue,Songshanhu High-technology Industrial Development Zone,
 Dongguan, Guangdong,China Http://www.emtek.com.cn E-mail: project@emtek.com.cn



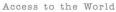


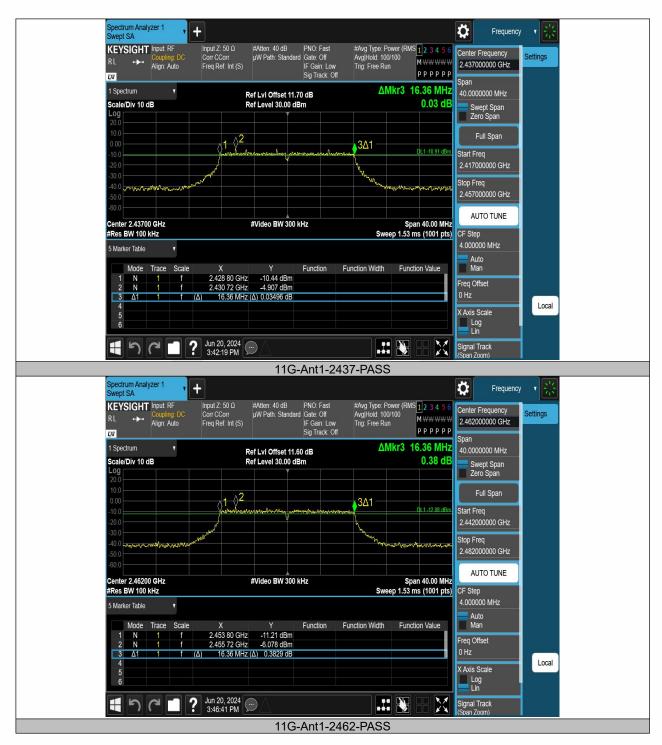




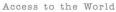


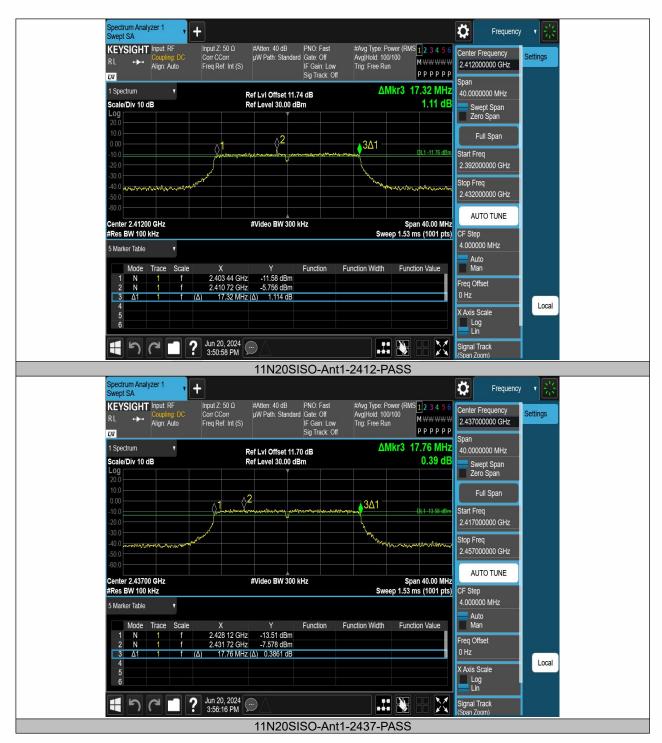




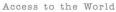


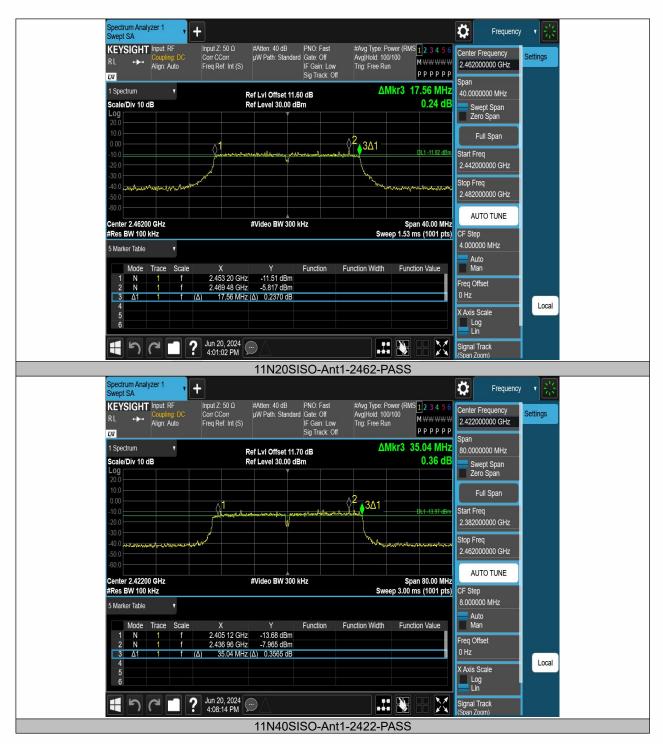




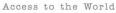


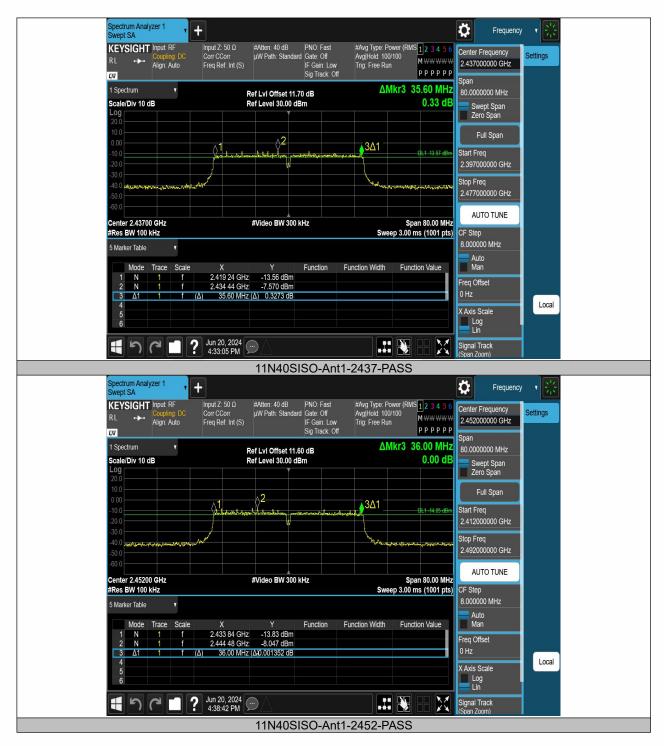














#### 8.2 DTS 99% BANDWIDTH

#### 8.2.1 Applicable Standard

According to RSS-Gen 6.7 and KDB 558074 D01 DTS Meas Guidance v05r02

#### 8.2.2 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

#### 8.2.3 Test Procedure

The EUT was operating in Bluetooth mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 1%-5% OBW.

Set the video bandwidth (VBW)  $\geq$  3\*RBW.

Set Span=approximately 2 to 3 times the 20 dB bandwidth.

Set Detector = AVG.

Set Trace mode = max hold.

Set Sweep = auto couple.

Allow the trace to stabilize.

Use the 99 % power bandwidth function of the instrument

Measure the maximum width of the emission.

If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation .

Measure and record the results in the test report.

#### 8.2.4 Test Results

Temperature:	25°C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Note: N/A



TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.815	2405.1603	2418.9753		
11B	Ant1	2437	13.751	2430.1108	430.1108 2443.8618		
11B	Ant1	2462	13.844	2455.0188	2468.8628		
11G	Ant1	2412	17.144	2403.4719	2420.6159		
11G	Ant1	2437	17.115	2428.3846	2445.4996		
11G	Ant1	2462	17.114	2453.3932	2470.5072		
11N20SISO	Ant1	2412	18.037	2403.0215	2421.0585		
11N20SISO	Ant1	2437	17.957	2427.9933	2445.9503		
11N20SISO	Ant1	2462	18.124	2452.8765	2471.0005		
11N40SISO	Ant1	2422	36.461	2403.8286	2440.2896		
11N40SISO	Ant1	2437	36.340	2418.7785	2455.1185		
11N40SISO	Ant1	2452	36.459	2433.6578	2470.1168		



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Spectrum Analyzer 1 Occupied BW Ö + Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Center Freq: 2.437000000 GHz Avg|Hold: 100/100 Radio Std: None Atten: 40 dB Trig: Free Run µW Path: Standard Gate: Off #IF Gain: Low KEYSIGHT Input: RF Center Frequency 2.437000000 GHz Settings Align: Auto L)(I Span Mkr1 2.437880000 GHz 1 Graph 40.000 MHz Ref LvI Offset 11.70 dB Ref Value 30.00 dBm -1.27 dBn Scale/Div 10.0 dB CF Step Log 4.000000 MHz 1 Auto Man Freq Offset Center 2.43700 GHz #Res BW 430.00 kHz Span 40 MHz Sweep 1.00 ms (1001 pts) #Video BW 1.3000 MHz 2 Metrics Occupied Bandwidth 17.115 MHz 12 8 dBm Total Power -57.859 kHz % of OBW Power Transmit Freq Error 99.00 % Local x dB Bandwidth 21.75 MHz x dB -26.00 dB モアア (C) 「「 ? Jun 20, 2024 (デ) 3:42:25 PM (デ) X 11G-Ant1-2437 Spectrum Analyzer 1 Occupied BW Ö + Frequency Input Z: 50 Ω Atten: 40 dB Trig: Free Run μW Path: Standard Gate: Off #IF Gain: Low Center Freq: 2.462000000 GHz Avg|Hold: 100/100 Radio Std: None KEYSIGHT Input: RF Center Frequency Settings Corr CCorr Freq Ref: Int (S) Align: Auto 2.462000000 GHz L)(I Spar Mkr1 2.459760000 GHz 1 Graph Ref Lvi Offset 11.60 dB Ref Value 30.00 dBm 40.000 MHz -1.49 dBm Scale/Div 10.0 dB CF Step 4.000000 MHz 1 Auto Man Freq Offset 0 Hz Center 2.46200 GHz #Res BW 430.00 kHz #Video BW 1.3000 MHz Span 40 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 17.114 MHz Total Power 12.0 dBm -49.800 kHz 21.65 MHz 99.00 % -26.00 dB Transmit Freq Error % of OBW Power Local x dB Bandwidth x dB  $\mathbb{X}$ 11G-Ant1-2462



Spectrum Analyzer 1 Occupied BW Ö + Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Atten: 40 dB Trig: Free Run µW Path: Standard Gate: Off #IF Gain: Low Center Freq: 2.412000000 GHz KEYSIGHT Input: RF Center Frequency 2.412000000 GHz Avg|Hold: 100/100 Radio Std: None Settings Align: Auto L)(I Span Mkr1 2.411080000 GHz 1 Graph 40.000 MHz Ref LvI Offset 11.74 dB Ref Value 30.00 dBm -1.63 dBn Scale/Div 10.0 dB CF Step Log 4.000000 MHz ۲ Auto Man Freq Offset Center 2.41200 GHz #Res BW 430.00 kHz Span 40 MHz Sweep 1.00 ms (1001 pts) #Video BW 1.3000 MHz 2 Metrics Occupied Bandwidth 18.037 MHz 12 0 dBm Total Power 40.030 kHz % of OBW Power Transmit Freq Error 99.00 % Local x dB Bandwidth 22.08 MHz x dB -26.00 dB モアア (C) 「 ? Jun 20, 2024 💬 X 11N20SISO-Ant1-2412 Spectrum Analyzer 1 Occupied BW Ö + Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Atten: 40 dB Trig: Free Run μW Path: Standard Gate: Off #IF Gain: Low Center Freq: 2.437000000 GHz Avg|Hold: 100/100 Radio Std: None KEYSIGHT Input: RF Center Frequency Settings Align: Auto 2.437000000 GHz L)(I Spar Mkr1 2.432320000 GHz 1 Graph Ref Lvi Offset 11.70 dB Ref Value 30.00 dBm 40.000 MHz -0.15 dBm Scale/Div 10.0 dB CF Step 4.000000 MHz Auto Man Freq Offset Center 2.43700 GHz #Res BW 430.00 kHz #Video BW 1.3000 MHz Span 40 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 17.957 MHz Total Power 12.8 dBm 99.00 % -26.00 dB Transmit Freq Error -28.253 kHz % of OBW Power Local x dB Bandwidth 21.91 MHz x dB  $\mathbb{X}$ 11N20SISO-Ant1-2437







Spectrum Analyzer 1 Occupied BW Ö + Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Center Freq: 2.437000000 GHz Avg|Hold: 100/100 Radio Std: None Atten: 40 dB Trig: Free Run µW Path: Standard Gate: Off #IF Gain: Low KEYSIGHT Input: RF Center Frequency 2.437000000 GHz Settings Align: Auto L)(I Span Mkr1 2.451000000 GHz 1 Graph 80.000 MHz Ref LvI Offset 11.70 dB Ref Value 30.00 dBm -0.42 dBn Scale/Div 10.0 dB CF Step Log 8.000000 MHz 1 Auto Man Freq Offset Center 2.43700 GHz #Res BW 820.00 kHz Span 80 MHz Sweep 1.00 ms (1001 pts) #Video BW 2.7000 MHz 2 Metrics Occupied Bandwidth 36.340 MHz 13 7 dBm Total Power -51.514 kHz % of OBW Power Transmit Freq Error 99.00 % Local x dB Bandwidth 42.26 MHz x dB -26.00 dB モッマア Jun 20, 2024 🗩 X 11N40SISO-Ant1-2437 Spectrum Analyzer 1 Occupied BW Ö + Frequency Input Z: 50 Ω Atten: 40 dB Trig: Free Run μW Path: Standard Gate: Off #IF Gain: Low Center Freq: 2.452000000 GHz Avg|Hold: 100/100 Radio Std: None KEYSIGHT Input: RF Center Frequency Settings Corr CCorr Freq Ref: Int (S) Align: Auto 2.452000000 GHz L)(I Spar Mkr1 2.447360000 GHz 1 Graph Ref Lvi Offset 11.60 dB Ref Value 30.00 dBm 80.000 MHz -0.86 dBm Scale/Div 10.0 dB CF Step 8.000000 MHz 71 Auto Man Freq Offset 0 Hz Center 2.45200 GHz #Res BW 820.00 kHz #Video BW 2.7000 MHz Span 80 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 36.459 MHz Total Power 13.2 dBm -112.75 kHz 42.58 MHz 99.00 % -26.00 dB Transmit Freq Error % of OBW Power Local x dB Bandwidth x dB  $\mathbb{X}$ 11N40SISO-Ant1-2452



#### 8.3 MAXIMUM PEAK CONDUCTED OUTPUT POWER

#### 8.3.1 **Applicable Standard**

According to FCC Part15.247 (b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 According to RSS-247 5.4(d) and RSS-Gen 6.12

#### 8.3.2 **Conformance Limit**

The maximum conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm).

#### 8.3.3 **Test Configuration**

Test according to clause 6.1 radio frequency test setup

#### 8.3.4 **Test Procedure**

a) Set span to at least 1.5 times the OBW.

b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.

c) Set VBW  $\geq$  3 x RBW.

d) Number of points in sweep  $\geq 2 \times \text{span} / \text{RBW}$ . (This gives bin-to-bin spacing  $\leq \text{RBW}/2$ , so that narrowband signals are not lost between frequency bins.)

e) Sweep time = auto.

f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.

g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle  $\geq$  98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".

h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.

i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

According to FCC Part 15.247(b)(4):

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

Note: If antenna Gain exceeds 6 dBi, then Output power Limit=30-(Gain- 6)

#### 8.3.5 **Test Results**

Temperature:	25 °C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Note: N/A



Test Mode	Anten na	Frequency[M Hz]	Set Pow er	Avera ge power [dBm]	Duty Cycl e [%]	DC Fact or [dB m]	Res ult [dB m]	Limit [dBm ]	Gai n [dBi ]	EIR P [dB m]	EIRP Limit [dBm ]	Verdi ct
11B	Ant1	2412		6.86	98.6 5	0.06	6.92	≤30. 00	3.1 9	10.1 1	≤36.0 0	PAS S
11B	Ant1	2437		7.78	99.4 4	0.02	7.80	≤30. 00	3.1 9	10.9 9	≤36.0 0	PAS S
11B	Ant1	2462		6.88	100. 00	0.00	6.88	≤30. 00	3.1 9	10.0 7	≤36.0 0	PAS S
11G	Ant1	2412		5.79	96.2 8	0.16	5.95	≤30. 00	3.1 9	9.14	≤36.0 0	PAS S
11G	Ant1	2437		6.60	94.9 3	0.23	6.83	≤30. 00	3.1 9	10.0 2	≤36.0 0	PAS S
11G	Ant1	2462		5.90	94.9 5	0.23	6.13	≤30. 00	3.1 9	9.32	≤36.0 0	PAS S
11N20SI SO	Ant1	2412	ł	5.71	95.0 5	0.22	5.93	≤30. 00	3.1 9	9.12	≤36.0 0	PAS S
11N20SI SO	Ant1	2437		6.43	95.5 2	0.20	6.63	≤30. 00	3.1 9	9.82	≤36.0 0	PAS S
11N20SI SO	Ant1	2462		5.71	97.4 6	0.11	5.82	≤30. 00	3.1 9	9.01	≤36.0 0	PAS S
11N40SI SO	Ant1	2422		5.88	85.4 5	0.68	6.56	≤30. 00	3.1 9	9.75	≤36.0 0	PAS S
11N40SI SO	Ant1	2437		6.22	88.7 9	0.52	6.74	≤30. 00	3.1 9	9.93	≤36.0 0	PAS S
11N40SI SO	Ant1	2452		5.59	85.4 5	0.68	6.27	≤30. 00	3.1 9	9.46	≤36.0 0	PAS S

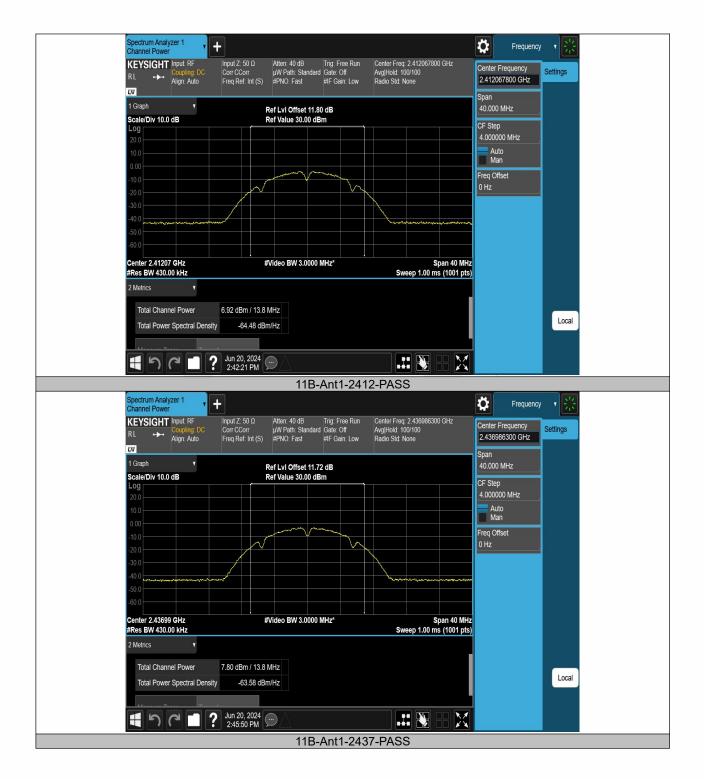
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Spectrum Analyzer 1 Channel Power Ö + Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) 
 Atten: 40 dB
 Trig: Free Run

 μW Path: Standard
 Gate: Off

 #PNO: Fast
 #IF Gain: Low
 Center Freq: 2.461940800 GHz Avg|Hold: 100/100 Radio Std: None KEYSIGHT Input: RF Center Frequency 2.461940800 GHz Settings Align: Auto L)(I Span 1 Graph 40.000 MHz Ref LvI Offset 11.60 dB Ref Value 30.00 dBm Scale/Div 10.0 dB CF Step Log 4.000000 MHz Auto Man Freq Offset 2 Center 2.46194 GHz #Res BW 430.00 kHz #Video BW 3.0000 MHz\* Span 40 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Total Channel Power 6.88 dBm / 13.8 MHz Local -64.53 dBm/Hz Total Power Spectral Density **モア (\*) (\*) (\*) (\*)** Jun 20, 2024 💬 X 11B-Ant1-2462-PASS Spectrum Analyzer 1 Channel Power Ö Frequency + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) 
 Atten: 40 dB
 Trig: Free Run

 μW Path: Standard
 Gate: Off

 #PNO: Fast
 #IF Gain: Low
 Center Freq: 2.412043900 GHz Avg|Hold: 100/100 Radio Std: None KEYSIGHT Input: RF Center Frequency Settings Align: Auto 2.412043900 GHz L)(I Spar 1 Graph V Ref Lvi Offset 11.90 dB Ref Value 30.00 dBm 40.000 MHz Scale/Div 10.0 dB CF Step 4.000000 MHz \_0g Auto Man Freq Offset 0 Hz Center 2.41204 GHz #Res BW 430.00 kHz #Video BW 3.0000 MHz\* Span 40 MHz Sweep 1.00 ms (1001 pts) 2 Metrics 5.95 dBm / 17.1 MHz Total Channel Power Local Total Power Spectral Density -66.39 dBm/Hz 日のでで、2024の X 11G-Ant1-2412-PASS



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Spectrum Analyzer 1 Channel Power Ö + Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Atten: 40 dB Trig: Free Run μW Path: Standard Gate: Off #PNO: Fast #IF Gain: Low Center Freq: 2.412040000 GHz KEYSIGHT Input: RF Center Frequency 2.412040000 GHz Avg|Hold: 100/100 Radio Std: None Settings Align: Auto L)(I Span 1 Graph 40.000 MHz Ref LvI Offset 11.96 dB Ref Value 30.00 dBm Scale/Div 10.0 dB CF Step Log 4.000000 MHz Auto Man Freq Offset Center 2.41204 GHz #Res BW 430.00 kHz #Video BW 3.0000 MHz\* Span 40 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Total Channel Power 5.93 dBm / 18.0 MHz Local -66.63 dBm/Hz Total Power Spectral Density **モアン (\* 11) ?** Jun 20, 2024 💬 X 11N20SISO-Ant1-2412-PASS Spectrum Analyzer 1 Channel Power Ö + Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) 
 Atten: 40 dB
 Trig: Free Run

 μW Path: Standard
 Gate: Off

 #PNO: Fast
 #IF Gain: Low
 Center Freq: 2.436971800 GHz Avg|Hold: 100/100 Radio Std: None KEYSIGHT Input: RF Center Frequency Settings Align: Auto 2.436971800 GHz L)(I Spar 1 Graph V Ref Lvi Offset 11.90 dB Ref Value 30.00 dBm 40.000 MHz Scale/Div 10.0 dB CF Step 4.000000 MHz \_0g Auto Man Freq Offset 0 Hz Center 2.43697 GHz #Res BW 430.00 kHz #Video BW 3.0000 MHz\* Span 40 MHz Sweep 1.00 ms (1001 pts) 2 Metrics 6.63 dBm / 18.0 MHz Total Channel Power Local Total Power Spectral Density -65.91 dBm/Hz X 手ってこ? Jun 20, 2024 🗩 11N20SISO-Ant1-2437-PASS



Spectrum Analyzer 1 Channel Power Ö + Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Center Freq: 2.461938500 GHz Avg|Hold: 100/100 Radio Std: None Atten: 40 dB Trig: Free Run μW Path: Standard Gate: Off #PNO: Fast #IF Gain: Low KEYSIGHT Input: RF Center Frequency 2.461938500 GHz Settings Align: Auto L)(I Span 1 Graph 40.000 MHz Ref LvI Offset 11.71 dB Ref Value 30.00 dBm Scale/Div 10.0 dB CF Step Log 4.000000 MHz Auto Man Freq Offset Center 2.46194 GHz #Res BW 430.00 kHz #Video BW 3.0000 MHz\* Span 40 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Total Channel Power 5.82 dBm / 18.1 MHz Local -66.76 dBm/Hz Total Power Spectral Density **モア (\*) (\*) (\*) (\*)** Jun 20, 2024 💬 X 11N20SISO-Ant1-2462-PASS Spectrum Analyzer 1 Channel Power Ö + Frequency Center Freq: 2.422059100 GHz Avg|Hold: 100/100 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) 
 Atten: 40 dB
 Trig: Free Run

 μW Path: Standard
 Gate: Off

 #PNO: Fast
 #IF Gain: Low
 KEYSIGHT Input: RF Center Frequency Settings Align: Auto 2.422059100 GHz L)(I Spar 1 Graph V Ref Lvi Offset 12.38 dB Ref Value 30.00 dBm 80.000 MHz Scale/Div 10.0 dB CF Step 8.000000 MHz \_0g Auto Man Freq Offset 0 Hz Center 2.42206 GHz #Res BW 820.00 kHz #Video BW 3.0000 MHz\* Span 80 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Total Channel Power 6.56 dBm / 36.5 MHz Local Total Power Spectral Density -69.06 dBm/Hz **手 つ C I ?** Jun 20, 2024 💬 X 11N40SISO-Ant1-2422-PASS