TEST REPORT

「CT通测检测 TESTING CENTRE TECHNOLOGY

> FCC ID: 2ANKUICPPROHVR Product: Mobile Digital Video Recorder Model No.: ICPPROHVR Additional Model No.: N/A Trade Mark: N/A Report No.: TCT170822E026 Issued Date: Aug. 31, 2017

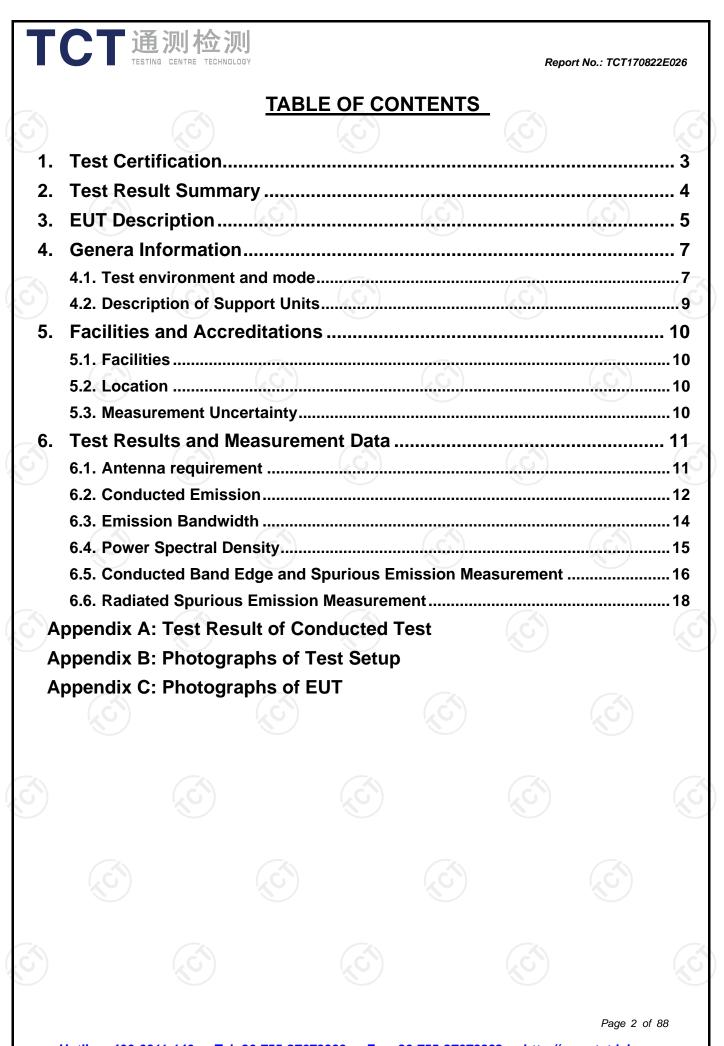
> > Issued for:

Safety Vision, LLC 6100 W. Sam Houston Pkwy. N. Houston, TX 77041-5113, America

Issued By:

Shenzhen Tongce Testing Lab. 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China TEL: +86-755-27673339 FAX: +86-755-27673332

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1. Test Certification

Product:	Mobile Digital Video Recorder	
Model No.:	ICPPROHVR	
Additional Model:	N/A	
Trade Mark:	N/A	
Applicant:	Safety Vision, LLC	
Address:	6100 W. Sam Houston Pkwy. N. Houston, TX 77041-5113, America	
Manufacturer:	Safety Vision, LLC	
Address:	6100 W. Sam Houston Pkwy. N. Houston, TX 77041-5113, America	
Date of Test:	Aug. 23 – Aug. 30, 2017	
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v04	

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

	Tested By:	Garen	Date:	Aug. 30, 2017	_
	Reviewed By:	Zonzhon	Date:	Aug. 31, 2017	- (,
(C	Approved By:	Joe Zhou TomSin Tomsin	Date:	Aug. 31, 2017	_
	400-6611-140 Tel.	l: 86-755-27673339 Fax	:: 86-755-27673332	Page 3 2 http://www.tct-lab.	

2. Test Result Summary

Requirement	CFR 47 Section	Result	
Antenna requirement	§15.203/§15.247 (c)	PASS	
AC Power Line Conducted Emission	§15.207	N/A	
Conducted Peak Output Power	§15.247 (b)(3) §2.1046	PASS	
6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS	
Power Spectral Density	§15.247 (e)	PASS	
Band Edge	1§5.247(d) §2.1051, §2.1057	PASS	
Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS	
ote:			

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

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3. EUT Description

Additional Model:N/ATrade Mark:N/AOperation Frequency:2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))Channel Separation:5MHzNumber of Channel:11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)Modulation Technology: (IEEE 802.11b)Direct Sequence Spread Spectrum (DSSS)Modulation Technology: (IEEE 802.11g/802.11n)Orthogonal Frequency Division Multiplexing(OFDM)Data speed (IEEE 802.11b):6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54MbpsData speed (IEEE 802.11n):Up to 150MbpsAntenna Type:External AntennaAntenna Gain:4.5dBiPower Supply:DC 8V-36V	Product:	Mobile Digital Video Recorder
Trade Mark:N/AOperation Frequency:2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))Channel Separation:5MHzNumber of Channel:11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)Modulation Technology: (IEEE 802.11b)Direct Sequence Spread Spectrum (DSSS)Modulation Technology: (IEEE 802.11g/802.11n)Orthogonal Frequency Division Multiplexing(OFDM)Data speed (IEEE 802.11b):1Mbps, 2Mbps, 5.5Mbps, 11MbpsData speed (IEEE 802.11g):6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54MbpsData speed (IEEE 802.11n):Up to 150MbpsAntenna Type:External AntennaAntenna Gain:4.5dBiPower Supply:DC 8V-36V	Model No.:	ICPPROHVR
Operation Frequency:2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))Channel Separation:5MHzNumber of Channel:11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)Modulation Technology: (IEEE 802.11b)Direct Sequence Spread Spectrum (DSSS)Modulation Technology: (IEEE 802.11g/802.11n)Orthogonal Frequency Division Multiplexing(OFDM)Data speed (IEEE 802.11b):6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54MbpsData speed (IEEE 802.11g):Up to 150MbpsData speed (IEEE 802.11n):Up to 150MbpsAntenna Type:External AntennaAntenna Gain:4.5dBiPower Supply:DC 8V-36V	Additional Model:	N/A
Operation Frequency:2422MHz~2452MHz (802.11n(HT40))2422MHz~2452MHz (802.11n(HT40))5MHzNumber of Channel:11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)Modulation Technology: (IEEE 802.11b)Direct Sequence Spread Spectrum (DSSS)Modulation Technology: (IEEE 802.11g/802.11n)Orthogonal Frequency Division Multiplexing(OFDM)Data speed (IEEE 802.11b):1Mbps, 2Mbps, 5.5Mbps, 11MbpsData speed (IEEE 802.11g):6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54MbpsData speed (IEEE 802.11n):Up to 150MbpsAntenna Type:External AntennaAntenna Gain: Power Supply:4.5dBiDC 8V-36VDC 8V-36V	Trade Mark:	N/A
Number of Channel:11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)Modulation Technology: (IEEE 802.11b)Direct Sequence Spread Spectrum (DSSS)Modulation Technology: (IEEE 802.11g/802.11n)Orthogonal Frequency Division Multiplexing(OFDM)Data speed (IEEE 802.11b):1Mbps, 2Mbps, 5.5Mbps, 11MbpsData speed (IEEE 802.11g):6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54MbpsData speed (IEEE 802.11g):Up to 150MbpsData speed (IEEE 802.11n):Up to 150Mbps	Operation Frequency:	
Number of Channel:7 for 802.11n(HT40)Modulation Technology: (IEEE 802.11b)Direct Sequence Spread Spectrum (DSSS)Modulation Technology: (IEEE 802.11g/802.11n)Orthogonal Frequency Division Multiplexing(OFDM)Data speed (IEEE 802.11b):1Mbps, 2Mbps, 5.5Mbps, 11MbpsData speed (IEEE 802.11g):6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54MbpsData speed (IEEE 802.11g):Up to 150MbpsData speed (IEEE 802.11n):Up to 150MbpsData speed (IEEE 802.11n):Dur to 150MbpsData speed (IEEE 802.11n):D	Channel Separation:	5MHz
(IEEE 802.11b)Direct Sequence Spread Spectrum (DSSS)Modulation Technology: (IEEE 802.11g/802.11n)Orthogonal Frequency Division Multiplexing(OFDM)Data speed (IEEE 802.11b):1Mbps, 2Mbps, 5.5Mbps, 11MbpsData speed (IEEE 802.11g):6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54MbpsData speed (IEEE 802.11g):Up to 150MbpsData speed (IEEE 802.11n):Up to 150MbpsAntenna Type:External AntennaAntenna Gain:4.5dBiPower Supply:DC 8V-36V	Number of Channel:	3
(IEEE 802.11g/802.11n)Orthogonal Frequency Division Multiplexing(OFDM)Data speed (IEEE 802.11b):1Mbps, 2Mbps, 5.5Mbps, 11MbpsData speed (IEEE 802.11g):6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54MbpsData speed (IEEE 802.11n):Up to 150MbpsData speed (IEEE 802.11n):Up to 150MbpsAntenna Type:External AntennaAntenna Gain:4.5dBiPower Supply:DC 8V-36V	Modulation Technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
802.11b):Hvibps, 2impps, 3.5mbps, 11mbpsData speed (IEEE 802.11g):6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54MbpsData speed (IEEE 802.11n):Up to 150MbpsAntenna Type:External AntennaAntenna Gain:4.5dBiPower Supply:DC 8V-36V	Modulation Technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
802.11g):48Mbps, 54MbpsData speed (IEEE 802.11n):Up to 150MbpsAntenna Type:External AntennaAntenna Gain:4.5dBiPower Supply:DC 8V-36V	Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
802.11n): Op to Tsolvibps Antenna Type: External Antenna Antenna Gain: 4.5dBi Power Supply: DC 8V-36V	Data speed (IEEE 802.11g):	
Antenna Gain: 4.5dBi Power Supply: DC 8V-36V	Data speed (IEEE 802.11n):	Up to 150Mbps
Power Supply: DC 8V-36V	Antenna Type:	External Antenna
	Antenna Gain:	4.5dBi
Test Power: DC 12V	Power Supply:	DC 8V-36V
	Test Power:	DC 12V

Operation Frequency each of channel For 802.11b/g/n(HT20)

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

Operation Frequency each of channel For 802.11n (HT40)

		<u>.</u>	_	<u>.</u>			_
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	2	4	2427MHz	7	2442MHz		
	-	5	2432MHz	8	2447MHz		
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(*m*), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/802.11n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n (HT40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz

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4. Genera Information

4.1. Test environment and mode

Operating Environment:

Temperature:	25.0 °C	
Humidity:	56 % RH	
Atmospheric Pressure:	1010 mbar	

Test Mode:

Engineering mode:

Keep the EUT in continuous transmitting
by select channel and modulations(The
value of duty cycle is 98.46%)

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. For the full battery state and The output power to the maximum state.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps
Final Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting with modulation
1. For WIFI function, the engineering t EUT continuous transmit/receive.	test program was provided and enabled to make

2.According to ANSI C63.10 standards, the test results are both the "worst case" and

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max	imum po [,]	wer setting	for all modu	lations.		

4.2. Description of Support Units

TCT通测检测 TCT通测检测

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Lead-acid Battery	DC12VED	1	1	1

Note:

- 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.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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5. Facilities and Accreditations

5.1. Facilities

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

FCC - Registration No.: 645098
 Shenzhen Tongce Testing Lab
 The 3m Semi-anechoic chamber has been registered and fully described in a report

with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

• IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU	
1	Conducted Emission	±2.56dB	
2	RF power, conducted	±0.12dB	
3	Spurious emissions, conducted	±0.11dB	
4	All emissions, radiated(<1G)	±3.92dB	
5	All emissions, radiated(>1G)	±4.28dB	
6	Temperature	±0.1°C	
7	Humidity	±1.0%	



6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:

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FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

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.

15.247(c) (1)(i) requirement:

(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.

E.U.T Antenna:

The WIFI antenna is External antenna which is the R-SMA antenna connector used, and the best case gains of the both antennas are 4.5dBi.



CT 通测检测 TESTING CENTRE TECHNOLOG	SY.	Report No.: TCT170822E
2. Conducted Emissi 2.1. Test Specification	ion	
Test Requirement:	FCC Part15 C Section 15.207	
Test Method:	ANSI C63.10:2013	$\langle \mathcal{C} \rangle$
Frequency Range:	150 kHz to 30 MHz	
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep t	ime=auto
Limits:	Frequency rangeLim(MHz)Quasi-peak0.15-0.566 to 56*0.5-556	hit (dBuV) Average 56 to 46* 46
	5-30 60	50
Test Setup:	E.U.T AC power Test table/Insulation plane EMI Receiver Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	
Test Mode:	Charging + transmitting with modulat	ion
Test Procedure:	 The E.U.T is connected to the mailine impedance stabilization network provides a 500hm/50uH coupling measuring equipment. The peripheral devices are also consistent of the provides and the stabilization network coupling impedance with 500hm to the stability of the stab	vork (L.I.S.N.). This impedance for the nnected to the main des a 50ohm/50uH termination. (Please he test setup and cked for maximum o find the maximum equipment and all of anged according to
Test Result:	The EUT is powered by power applicable.	DC 12V, So not

6.3. Maximum Conducted (Average) Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)				
Test Method:	KDB 558074				
Limit:	30dBm				
Test Setup:					
	Spectrum Analyzer				
Test Mode:	Transmitting mode with modulation				
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. 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. Measure the conducted output power and record the results in the test report. 				
Test Result:	PASS				

6.3.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	N9020A	MY49100060	Oct. 13, 2017			
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Oct. 13, 2017			
Antenna Connector	ТСТ	RFC-01	N/A	Oct. 13, 2017			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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	Report No.: TCT170822E
4. Emission Bandw 4.1. Test Specification	
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB 558074
Limit:	>500kHz
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report.
Test Result:	PASS

6.4.2. Test Instruments

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RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Spectrum Analyzer	Agilent	N9020A	MY49100060	Oct. 13, 2017		
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Oct. 13, 2017		
Antenna Connector	тст	RFC-01	N/A	Oct. 13, 2017		

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to

international system unit (SI).

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5.1. Test Specification	
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074
Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows Measurement Procedure 10.3 Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 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. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW. Detector = RMS, Sweep time = auto couple. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report.
Test Result:	PASS

6.5.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	nufacturer Model		Calibration Due			
Spectrum Analyzer	Agilent	N9020A	MY49100060	Oct. 13, 2017			
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Oct. 13, 2017			
Antenna Connector	тст	RFC-01	N/A	Oct. 13, 2017			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.6. Conducted Band Edge and Spurious Emission Measurement

6.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	
Teet Meder	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation 1. The testing follows FCC KDB Publication No. 558074
Test Procedure:	 D01 DTS Meas. Guidance v04. 2. 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. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). 5. Measure and record the results in the test report. 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

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6.6.2. Test Instruments

RF Test Room						
Equipment Manufacturer Model Serial Number Calibration						
Spectrum Analyzer	Agilent	N9020A	MY49100060	Oct. 13, 2017		
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Oct. 13, 2017		
Antenna Connector	тст	RFC-01	N/A	Oct. 13, 2017		

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

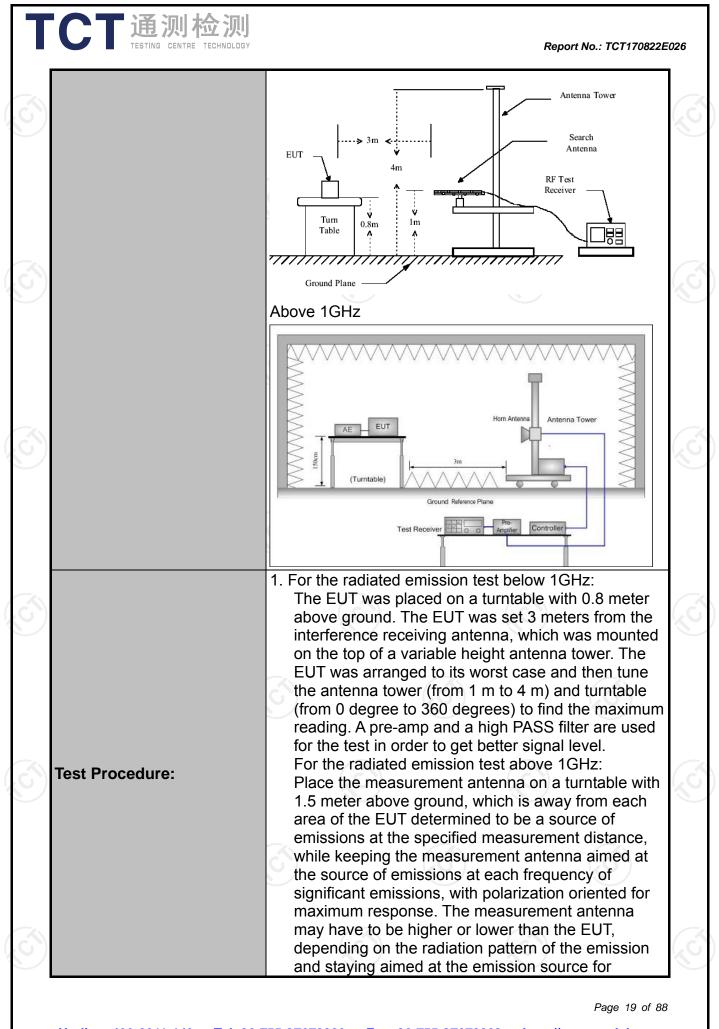
Tel: 86-755-27673339

Fax: 86-755-27673332

Hotline: 400-6611-140

Report No.: TCT170822E026 6.7. Radiated Spurious Emission Measurement 6.7.1. Test Specification FCC Part15 C Section 15,209 **Test Requirement: Test Method:** ANSI C63.10: 2013 9 kHz to 25 GHz Frequency Range: **Measurement Distance:** 3 m Antenna Polarization: Horizontal & Vertical **Operation mode:** Transmitting mode with modulation Frequency Detector RBW VBW Remark 9kHz- 150kHz Quasi-peak 200Hz 1kHz Quasi-peak Value 150kHz-Quasi-peak 9kHz 30kHz Quasi-peak Value **Receiver Setup:** 30MHz 30MHz-1GHz 100KHz Quasi-peak 300KHz Quasi-peak Value Peak Value Peak 1MHz 3MHz Above 1GHz Peak 1MHz 10Hz Average Value **Field Strength** Measurement Frequency (microvolts/meter) Distance (meters) 0.009-0.490 2400/F(KHz) 300 0.490-1.705 24000/F(KHz) 30 30 1.705-30 30 30-88 100 3 88-216 150 3 Limit: 216-960 200 3 500 Above 960 3 Measurement Field Strength Frequency Distance Detector (microvolts/meter) (meters) 500 3 Average Above 1GHz 5000 3 Peak For radiated emissions below 30MHz Distance = 3mComputer Pre -Amplifier Test setup: EUT Turn table 0.8m Receiver Ground Plane 30MHz to 1GHz

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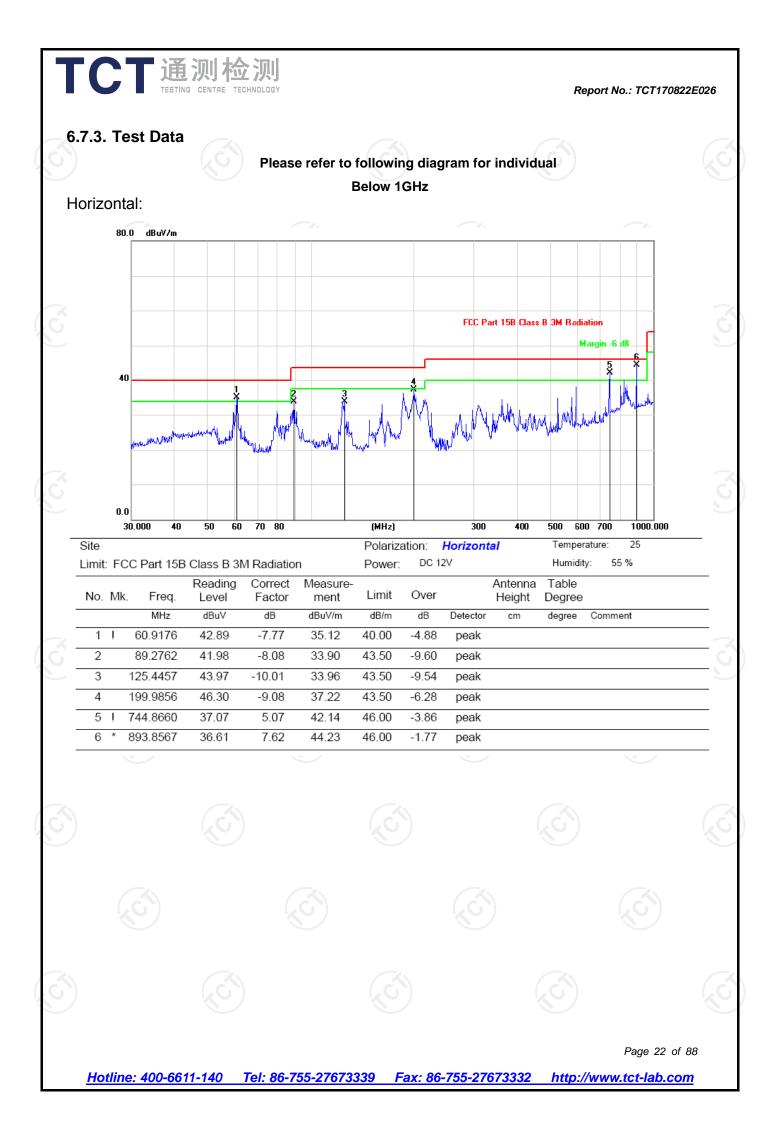
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S)	Test results:	PASS			<u>(</u>)		
Ś							
S							
						Page 20 of 88	8
	Hotline: 400-6611-140 Tel: 8	<u>36-755-27673</u>	<u>339 Fax: 8</u>	86-755-276733	32 http://w	ww.tct-lab.com	(

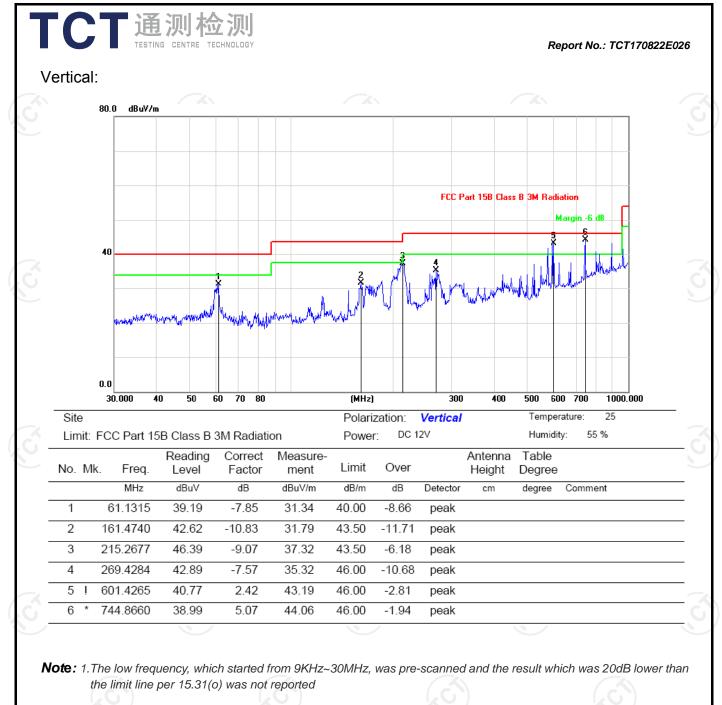
6.7.2. Test Instruments

TCT通测检测 TESTING CENTRE TECHNOLOGY

	Radiated Em	ission Test Sit	te (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Oct. 13, 2017
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Oct. 13, 2017
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Oct. 13, 2017
Pre-amplifier	HP	8447D	2727A05017	Oct. 13, 2017
Loop antenna	ZHINAN	ZN30900A	12024	Oct. 13, 2017
Broadband Antenna	Schwarzbeck	VULB9163	340	Oct. 13, 2017
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Oct. 13, 2017
Horn Antenna	Schwarzbeck	BBH 9170	582	Jun. 07, 2018
Antenna Mast	Keleto	CC-A-4M	N/A	N/A
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Oct. 13, 2017
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Oct. 13, 2017
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Oct. 13, 2017
Coax cable (9KHz-40GHz)	TCT	RE-high-04	N/A	Oct. 13, 2017
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).





2. Measurements were conducted in all three channels (high, middle, low) and all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode (Middle channel and 802.11b) was submitted only.

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		Low	channel: 2412	MHz		
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)
2310	H	45.56	-4.20	41.36	74.00	54.00
2377.38	Н	48.41	-4.10	44.31	74.00	54.00
2390	Н	53.40	-3.94	49.46	74.00	54.00
2310	V	44.18	-4.20	39.98	74.00	54.00
2377.38	V	54.36	-4.10	50.26	74.00	54.00
2390	V	55.16	-3.94	51.22	74.00	54.00
		Modu	lation Type: 80	2.11b		•
		High	channel: 2462	MHz		
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)
2483.5	Н	51.18	-3.60	47.58	74.00	54.00
2487.09	Н	47.69	-3.50	44.19	74.00	54.00
2500	Н	45.23	-3.34	41.89	74.00	54.00
2483.5	V	54.51	-3.60	50.91	74.00	54.00
2487.09	V	47.24	-3.50	43.74	74.00	54.00
2500	N	42.44	-3.34	39.10	74.00	54.00
	(.G)		(G)		(.G)	
		Modu	lation Type: 80	2 11a		
			channel: 2412			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)
2310	Н	43.12	-4.20	38.92	74.00	54.00
2388.96	Н	50.85	-4.12	46.73	74.00	54.00
2390	H	53.40	-3.94	49.46	74.00	54.00
2310	V	45.46	-4.20	41.26	74.00	54.00
2388.96	V	49.59	-4.12	45.47	74.00	54.00
2390	V	54.23	-3.94	50.29	74.00	54.00
2000			lation Type: 80		74.00	04.00
			channel: 2462			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)
2483.5	Н	52.46	-3.60	48.86	74.00	54.00
2487.59	Н	50.13	-3.52	46.61	74.00	54.00
2500	Н	46.76	-3.34	43.42	74.00	54.00
2483.5	V	51.52	-3.60	47.92	74.00	54.00
2487.59	V	47.13	-3.52	43.61	74.00	54.00
2500	V	47.54	-3.34	44.20	74.00	54.00
2000				11.20		

Test Result of Radiated Spurious at Band edges Modulation Type: 802.11b Low channel: 2412 MHz

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			n Type: 802.11			
		Low	channel: 2412			1
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)
2310	H	46.23	-4.20	42.03	74.00	54.00
2388.01	Н	53.61	-4.10	49.51	74.00	54.00
2390	Н	54.42	-3.94	50.48	74.00	54.00
2310	V	48.01	-4.20	43.81	74.00	54.00
2388.01	V	54.06	-4.10	49.96	74.00	54.00
2390	V	55.49	-3.94	51.55	74.00	54.00
			n Type: 802.11			
		High	channel: 2462			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)
2483.5	Н	52.53	-3.60	48.93	74.00	54.00
2392.55	Н	51.53	-3.50	48.03	74.00	54.00
2500	Н	47.57	-3.34	44.23	74.00	54.00
2483.5	V	53.13	-3.60	49.53	74.00	54.00
2392.55	V	50.74	-3.50	47.24	74.00	54.00
2500	V	48.56	-3.34	45.22	74.00	54.00
		Modulatio	n Type: 802.11	n(40MHz)		
		Low	channel: 2422			•
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)
2310	Н	50.69	-4.20	46.49	74.00	54.00
2387.85	Н	55.11	-4.10	51.01	74.00	54.00
2390	Н	52.60	-3.94	48.66	74.00	54.00
2310	V	51.35	-4.20	47.15	74.00	54.00
2389.98	V	50.46	-4.10	46.36	74.00	54.00
2390	V	49.74	-3.94	45.8	74.00	54.00
			n Type: 802.11			
			channel: 2452 Correction	Peak Final		
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Factor (dB/m)	Emission	Peak limit (dBµV/m)	AV limit (dBµV/m)
2483.5	Н	52.52	-3.60	48.92	74.00	54.00
2493.51	H	54.36	-3.50	50.86	74.00	54.00
2500	<u>H</u>	49.46	-3.34	46.12	74.00	54.00
2493.51	V	54.13	-3.60	50.53	74.00	54.00
2489.36	V V	52.46	-3.46	49.00	74.00	54.00
2500	V	50.77	-3.34	47.43	74.00	54.00
		evel=Peak Readin tenna Factor + Ca				

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3			М		e 1GHz ype: 802.11	1b			G	
Low channel: 2412 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Emission Level Factor Peak AV (dB/m) (dBµV/m) (dBµV/m)		Peak limit (dBµV/m) (dBµV/m)		Margin (dB)		
4824	Н	50.65		0.75	51.40		74	54	-2.60	
7236	<u>О</u> Н	41.42	L.C.	9.87	51.29		74	54	-2.71	
	Ĥ									
4824	V	49.16		0.75	49.91		74	54	-4.09	
7236	V	41.56		9.87	51.43		74	54	-2.57	
5)	V			(20			(\mathbf{e})			
	· · · · · ·		•	9	\mathcal{I}	-			9	

	Middle channel: 2437MHz											
Frequen (MHz)	cy Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
4874	КЧ	49.50	X	0.97	50.47	24	74	54	-3.53			
7311	Н	41.11		9.83	50.94		74	54	-3.06			
	Н											
4874	V	49.46		0.97	50.43		74	54	-3.57			
7311	V	40.88		9.83	50.71		74	54	-3.29			
	V								V			

			F	ligh channe	el: 2462 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	A \ /	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	Н	49.51		1.18	50.69		74	54	-3.31
7386	Н	39.16		10.07	49.23		74	54	-4.77
	Н	I					I		
4924	V	49.84		1.18	51.02		74	54	-2.98
7386	V	40.52		10.07	50.59		74	54	-3.41
	V								

Note:

5.

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1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)

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

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.

Data of measurement shown "----"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

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	Modulation Type: 802.11g											
	Low channel: 2412 MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	ading JV) Correction Emission Factor Peak (dB/m) (dBµV/m)		n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
4824	Н	49.29		0.75	50.04		74	54	-3.96			
7236	Н	40.43		9.87	50.30		74	54	-3.70			
	Н											
	$\langle \mathbf{C} \rangle$)	()	\mathcal{O}		60				
4824	V	47.52		0.75	48.27		74	54	-5.73			
7236	V	40.23		9.87	50.10		74	54	-3.90			
	V											
					-/.							

G		(G)	М	iddle chann			(.G)		
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	48.11		0.97	49.08		74	54	-4.92
7311	н	40.63		9.83	50.46		74	54	-3.54
	Ч		<u>k</u> o					<u>k</u> o	
4874	V	47.35		0.97	48.32		74	54	-5.68
7311	V	40.58		9.83	50.41		74	54	-3.59
	V	-		((
5)		XU))				

			F	ligh channe	el: 2462 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	H	47.77		1.18	48.95		74	54	-5.05
7386	H	39.59		10.07	49.66	7	74	54	-4.34
	H								
4924	V	46.53		1.18	47.71		74	54	-6.29
7386	V	40.14		10.07	50.21		74	54	-3.79
·/	V	K2			2/				X

Note:

3. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

4. Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/m)

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

6. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.

7. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

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			Modu	lation Type	: 802.11n (ł	HT20)					
	Low channel: 2412 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
4824	Н	49.12		0.75	49.87		74	54	-4.13		
7236	Н	40.46		9.87	50.33		74	54	-3.67		
	Н							7- 6			
	$\langle \mathbf{G} \rangle$)	()	\mathcal{O}		(C)			
4824	V	47.83		0.75	48.58		74	54	-5.42		
7236	V	40.22		9.87	50.09		74	54	-3.91		
	V										
2					2						

C			(G)	Μ	liddle chann	iel: 2437MF	Ηz	(\mathbf{G})		(.0
	Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
	4874	Н	47.38		0.97	48.35		74	54	-5.65
	7311	H	40.47		9.83	50.30		74	54	-3.70
		R H		1 K			24			/
	4874	V	47.46		0.97	48.43		74	54	-5.57
	7311	V	40.15		9.83	49.98		74	54	-4.02
		V			((
2	(` ر			-) (C				

			F	ligh channe	el: 2462 MH	Z				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
4924	H	48.16	<u></u>	1.18	49.34		74	54	-4.66	
7386	H	40.64		10.07	50.71		74	54	-3.29	
	Н									
4924	V	47.03		1.18	48.21		74	54	-5.79	
7386	V	40.25		10.07	50.32		74	54	-3.68	
	V				2/				'	

Note:

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1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/m)

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

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.

5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

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			Modu	lation Type	: 802.11n (ł	HT40)			
			L	ow channe	el: 2422 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4844	Н	45.91		0.66	46.57		74	54	-7.43
7266	H	38.56		9.5	48.06		74	54	-5.94
()	, С H		-ZC		()	-C-+			
4824	V	44.51		0.66	45.17		74	54	-8.83
7236	V	35.03		9.5	44.53		74	54	-9.47
	V								
		(\mathbf{G})					(\mathbf{G})		
\mathcal{I}			М	iddle chanr	nel: 2437MF	Ηz			<u> </u>
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	42.84		0.99	43.83		74	54	-10.17
7311	СH	34.62	140	9.85	44.47		74	54	-9.53
	Ŧ								
4874	V	43.21		0.99	44.20		74	54	-9.80
7311	V	37.36		9.85	47.21		74	54	-6.79
	V								-0.73
	v								
			F	ligh channe	el: 2452 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)		Correction		on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4904	μ	45.26	×	1.33	46.59	<u> </u>	74	54	-7.41
7356	Н	36.23		10.22	46.45		74	54	-7.55

	п		 		 		
				-			
4904	V	43.16	 1.33	44.49	 74	54	-9.51
7356	V	36.87	 10.22	47.09	 74	54	-6.91
	V		 -				

Note:

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1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/m)

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

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.

5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

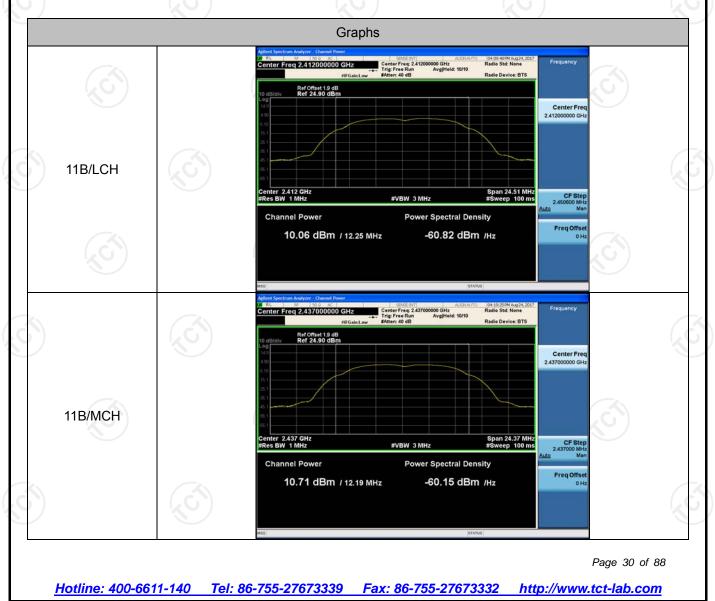
Report No.: TCT170822E026



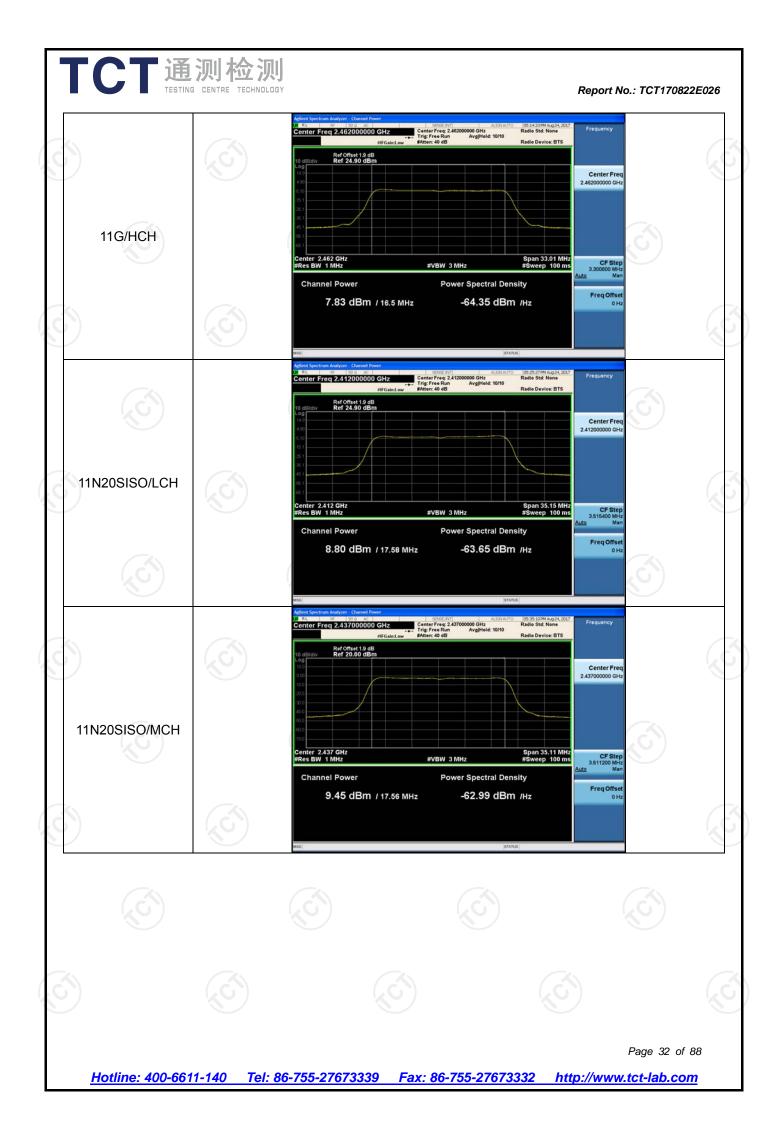
Result Table

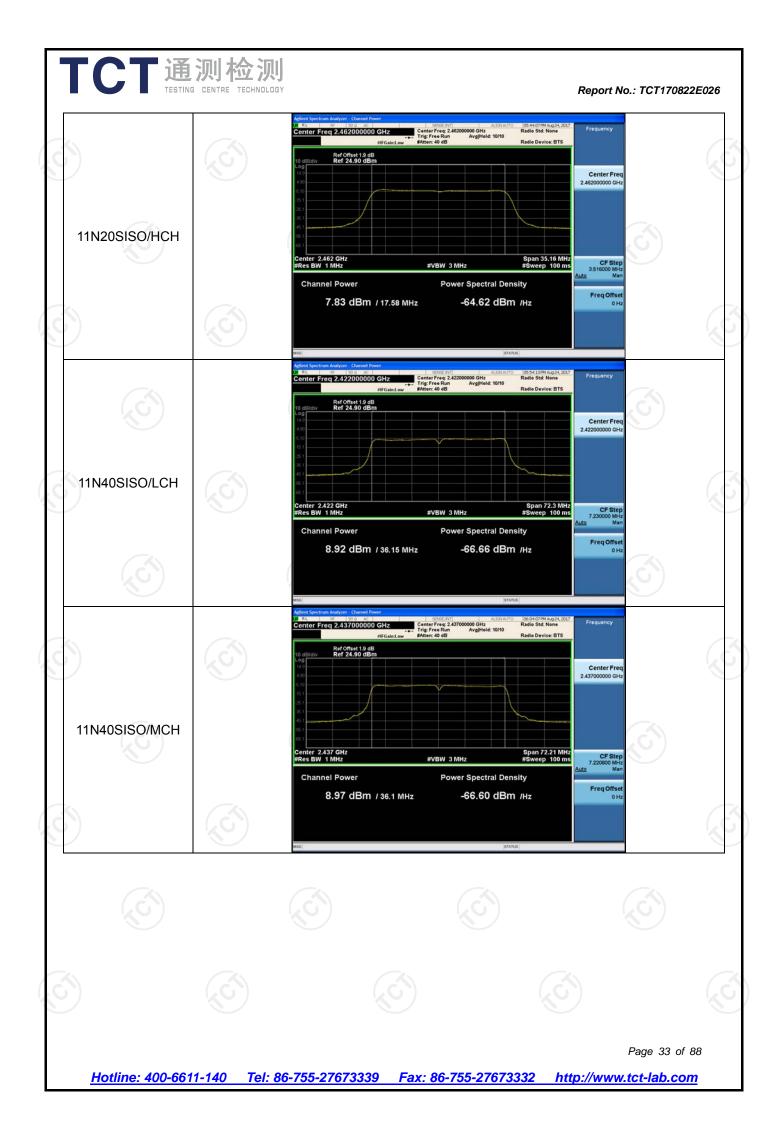
Mode	Channel	Meas.Level [dBm]	Verdict
11B	LCH	10.06	PASS
11B	MCH	10.71	PASS
11B	HCH	9.02	PASS
11G	LCH	8.81	PASS
11G	MCH	9.48	PASS
11G	HCH	7.83	PASS
11N20SISO	LCH	8.8	PASS
11N20SISO	MCH	9.45	PASS
11N20SISO	HCH	7.83	PASS
11N40SISO	LCH	8.92	PASS
11N40SISO	MCH	8.97	PASS
11N40SISO	HCH	8.34	PASS

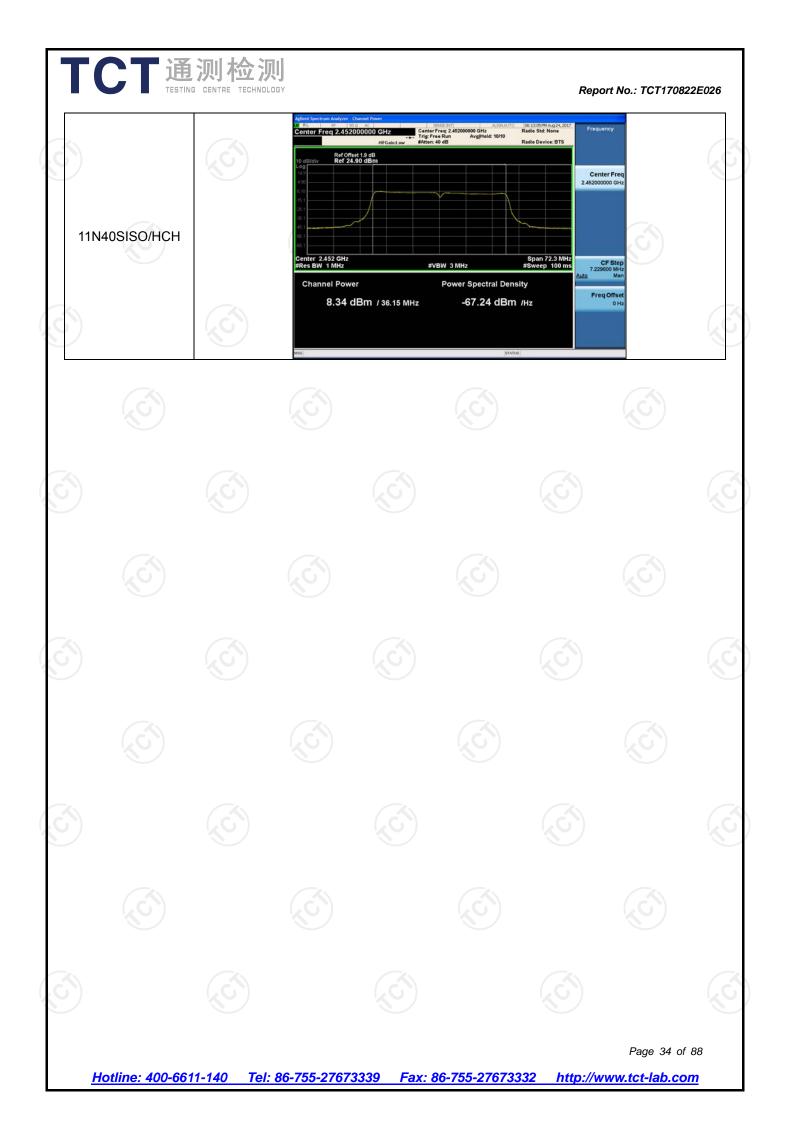
Test Graph

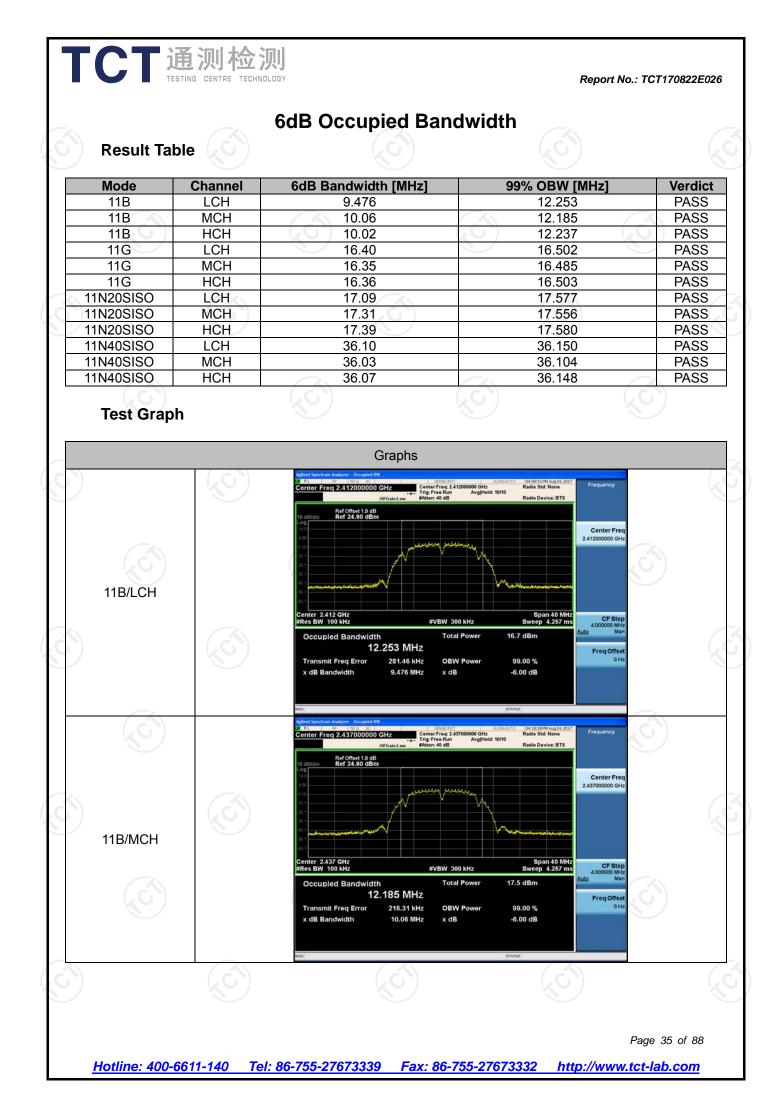




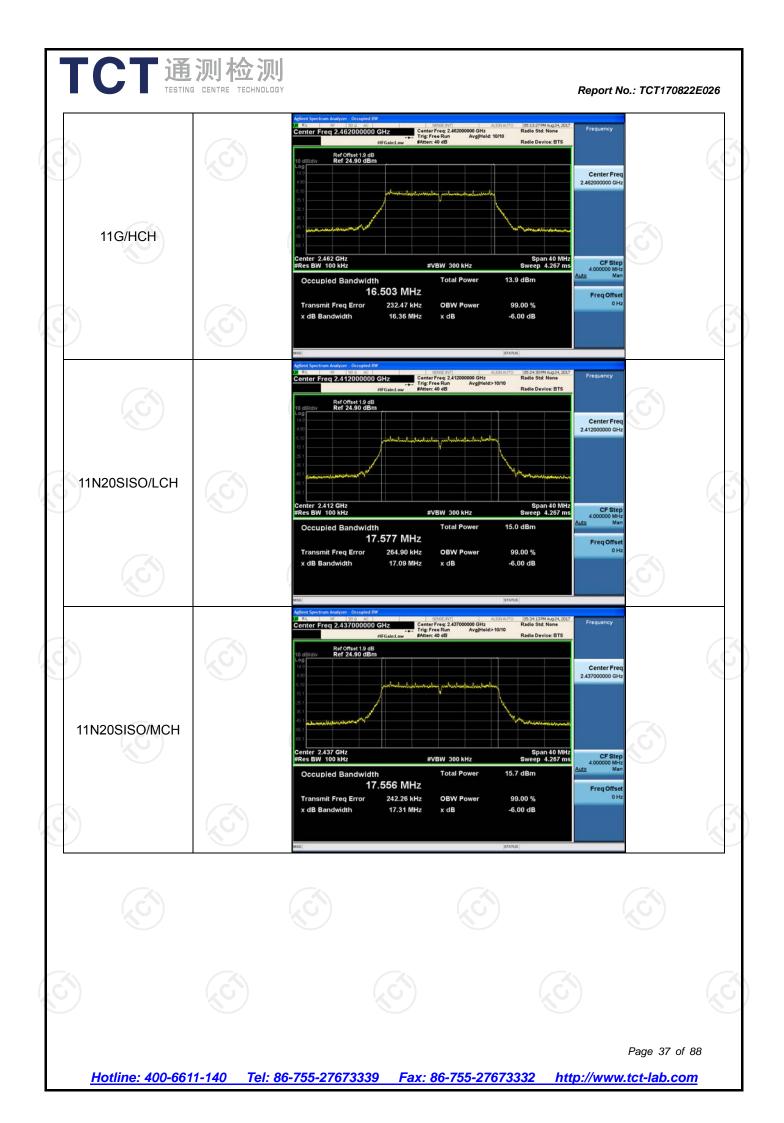


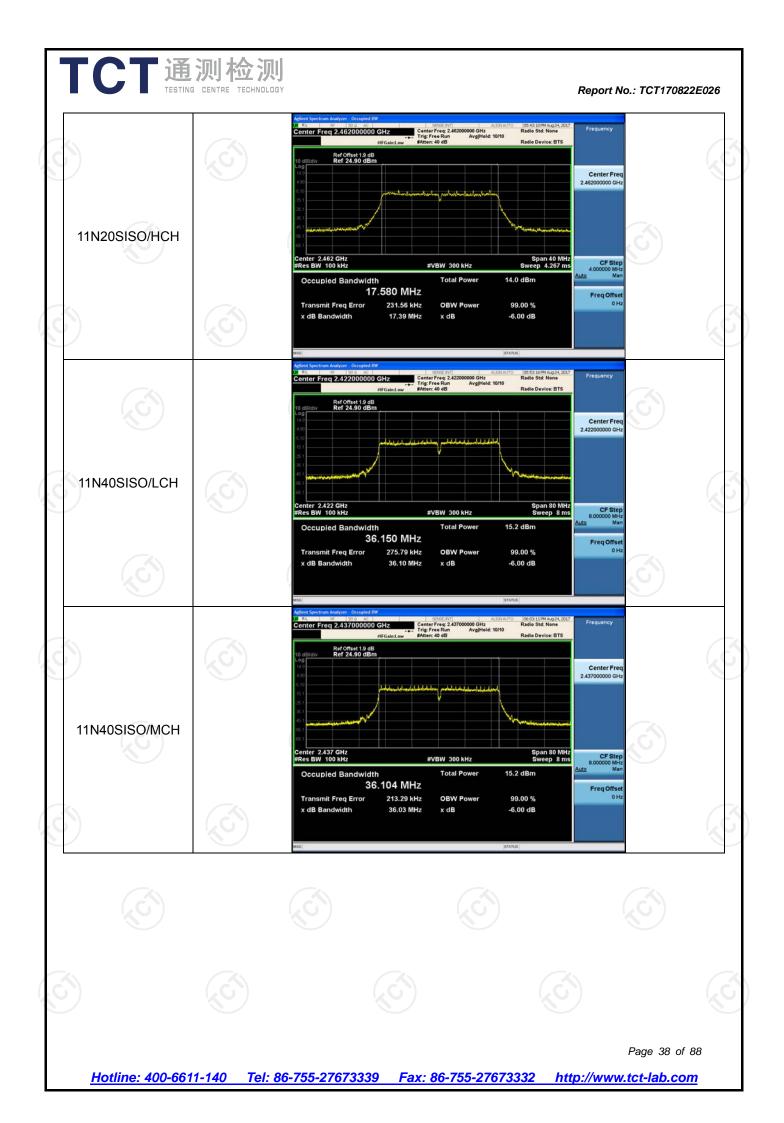


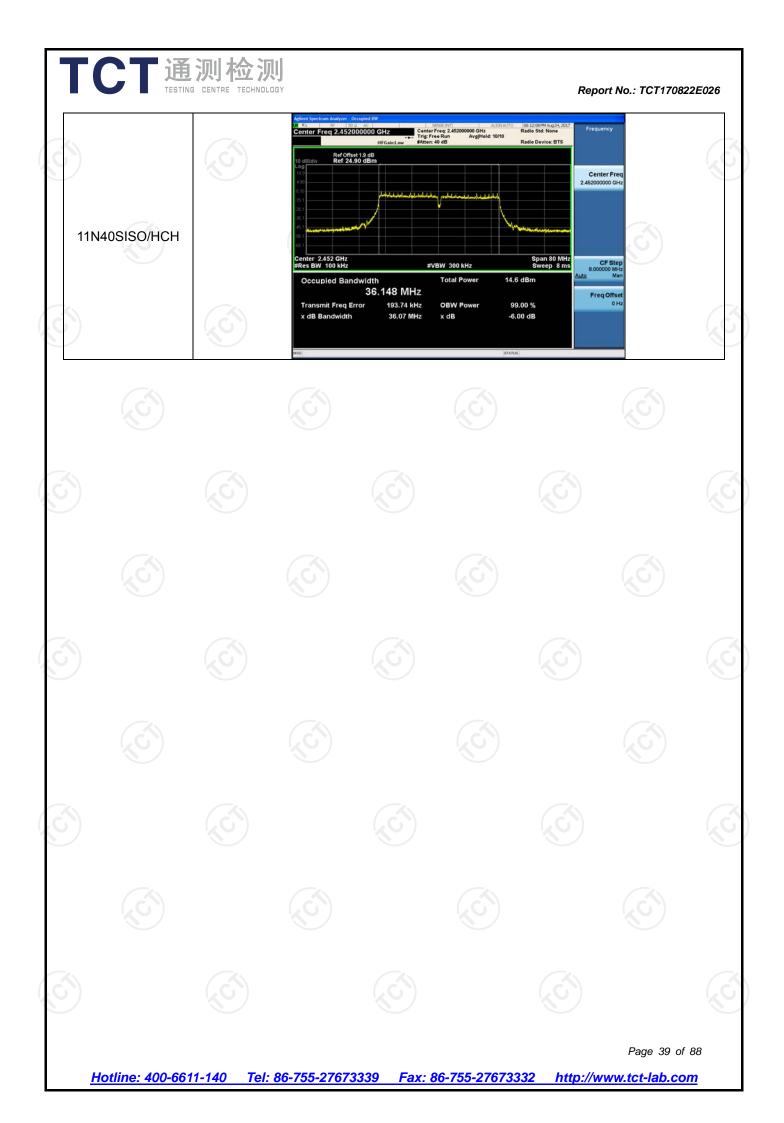












Report No.: TCT170822E026

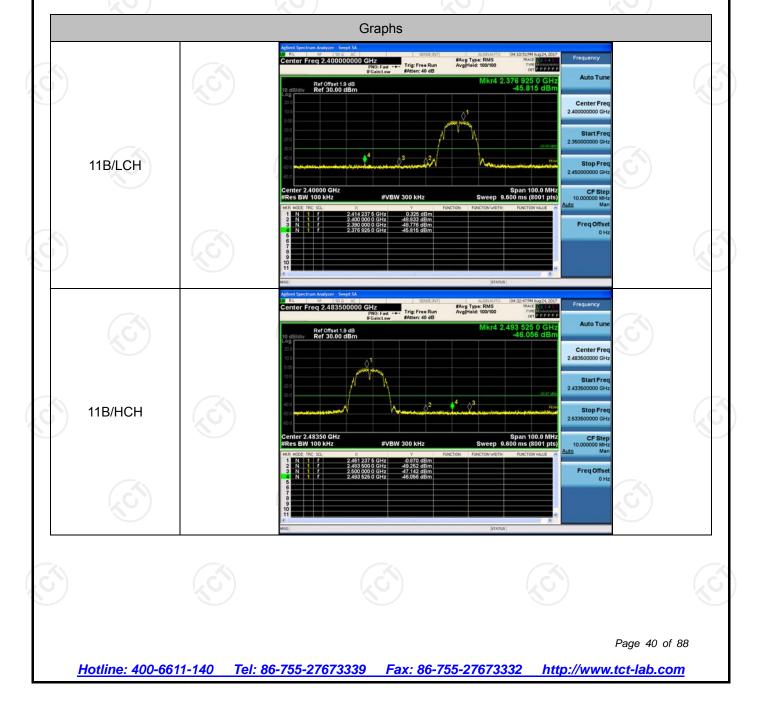
Band-edge for RF Conducted Emissions

Result Table

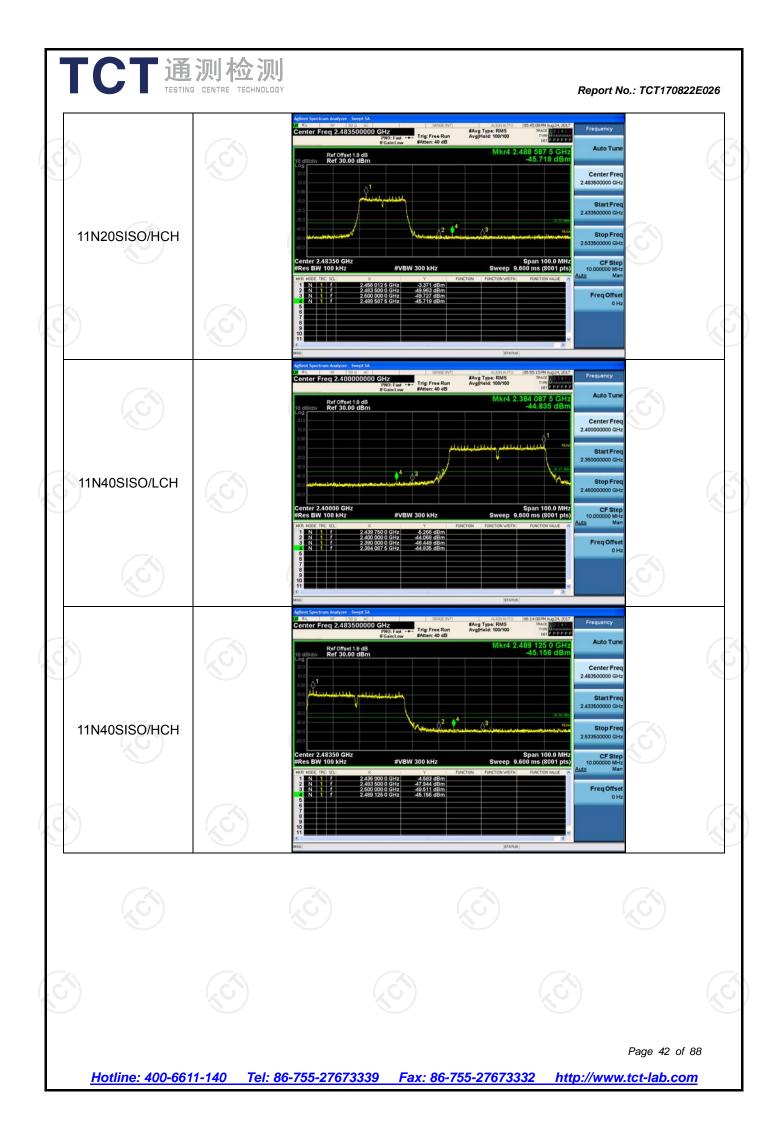
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Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	0.325	-45.815	-29.68	PASS
11B	HCH	-0.870	-46.056	-30.87	PASS
11G	LCH	-2.921	-46.551	-32.92	PASS
11G	HCH	-3.514	-45.478	-33.51	PASS
11N20SISO	LCH	-2.631	-46.348	-32.63	PASS
11N20SISO	HCH	-3.371	-45.719	-33.37	PASS
11N40SISO	LCH	-5.266	-44.835	-35.27	PASS
11N40SISO	HCH	-4.583	-45.156	-34.58	PASS









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Conducted Spurious Emissions

Result Tab	le					
Mode	Channel		Pref [dBm]		Puw[dBm]	Verdict
11B	LCH		0.237		<limit< td=""><td>PASS</td></limit<>	PASS
11B	MCH		0.93		<limit< td=""><td>PASS</td></limit<>	PASS
11B	HCH		-0.886		<limit< td=""><td>PASS</td></limit<>	PASS
11G	LCH		-2.05		<limit< td=""><td>PASS</td></limit<>	PASS
11G	MCH		-2.292		<limit< td=""><td>PASS</td></limit<>	PASS
11G	HCH		-2.698		<limit< td=""><td>PASS</td></limit<>	PASS
11N20SISO	LCH		-1.944		<limit< td=""><td>PASS</td></limit<>	PASS
11N20SISO	MCH		-1.483		<limit< td=""><td>PASS</td></limit<>	PASS
11N20SISO	HCH		-2.795		<limit< td=""><td>PASS</td></limit<>	PASS
11N40SISO	LCH		-4.986		<limit< td=""><td>PASS</td></limit<>	PASS
11N40SISO	MCH		-5.523		<limit< td=""><td>PASS</td></limit<>	PASS
11N40SISO	HCH		-4.634		<limit< td=""><td>PASS</td></limit<>	PASS
$\langle \mathcal{O} \rangle$		(\mathcal{G})		(\mathcal{O})	•	$\langle \mathcal{O} \rangle$

Test Graph

TCT 通测检测 TESTING CENTRE TECHNOLOGY

