TEST REPORT

FCC ID: 2AWC3-MG-S01 Product: Android dongle Model No.: MG-S01 Additional Model No.: N/A Trade Mark: N/A Report No.: TCT200506E054 Issued Date: Jun. 01, 2020

Issued for:

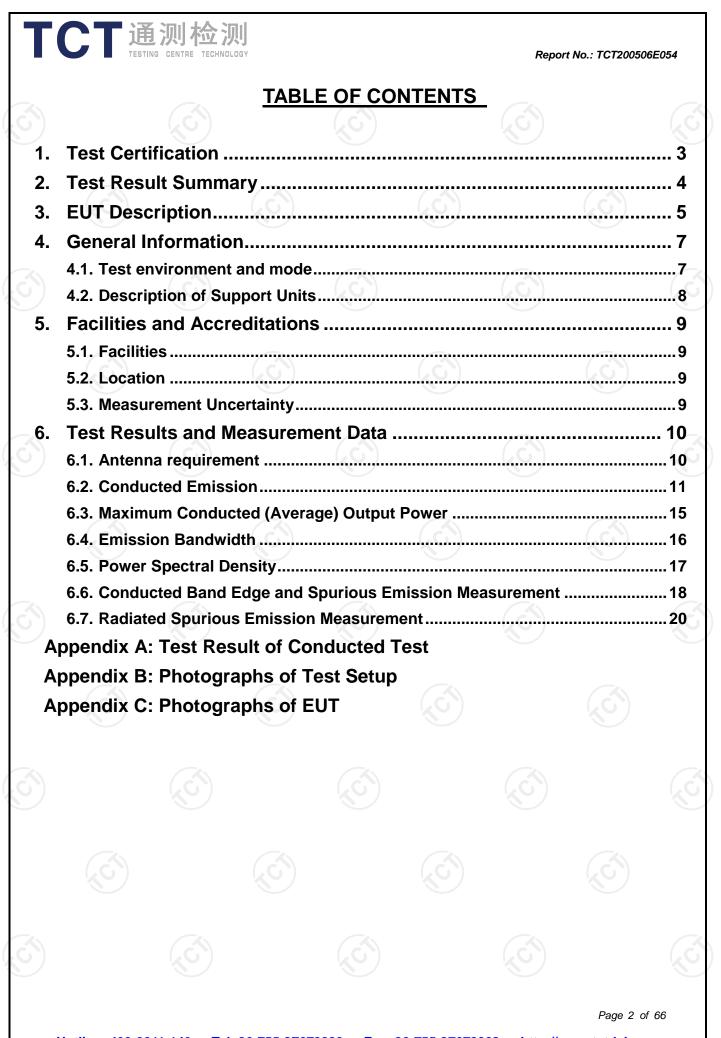
UBRIDGE Co., Ltd. 1-1704, Ace Hightech City, 775, Gyeongin-ro, Yeongdeungpo-gu, Seoul, South Korea

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

TCT通测检测 TCT通测检测

Product:	Android dongle	
Model No.:	MG-S01	
Additional Model No.:	N/A (C) (C)	
Trade Mark:	N/A	
Applicant:	UBRIDGE Co., Ltd.	
Address:	1-1704, Ace Hightech City, 775, Gyeongin-ro, Yeongdeungpo-gu, Seoul, South Korea	
Manufacturer:	Shenzhen Tomato Technology Co., Ltd	
Address:	Room 1105, Huatong Building, SunGangDong Road, LuoHu District, Shenzhen, Guangdong Province, P.R.China 518022	
Date of Test:	May 07, 2020 – Jun. 01, 2020	
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013	

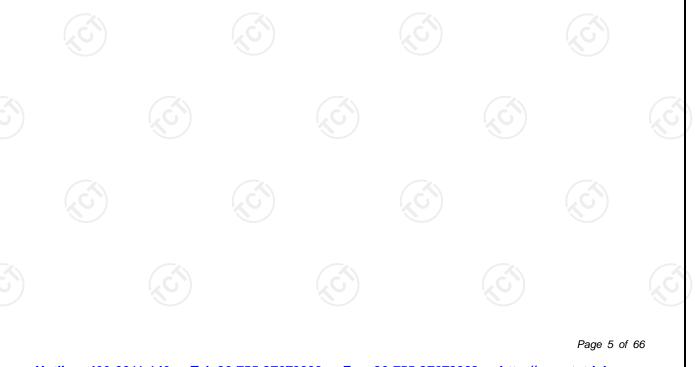
The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce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

Ś	Tested By:	Rleo	Date:	Jun. 01, 2020	
	Reviewed By:	Beng Than	Date:	Jun. 01, 2020	_
	Approved By:	Beryl Zhao	Date:	Jun. 01, 2020	
K)	Арргочеа Бу.	Tomsin		<i>Sull.</i> 01, 2020	K
	Hotline: 400-6611-140	Tel: 86-755-27673339	Fax: 86-755-2767333	Page 3 2 http://www.tct-lab.c	

(G)		CED 47 Section	Decu	14
Requirement Antenna requiremen		CFR 47 Section 5.203/§15.247 (c)	Resu PASS	
AC Power Line Conduc Emission		§15.207	PASS	0)
Conducted Peak Outp Power	put	§15.247 (b)(3)	PASS	3
6dB Emission Bandwid	dth	§15.247 (a)(2)	PASS	3
Power Spectral Densi	ity	§15.247 (e)	PASS	3
Band Edge		§15.247(d)	PASS	5
Spurious Emission			54.00	_
Spurious Emission Pote: 1. PASS: Test item meets the 2. Fail: Test item does not me 3. N/A: Test case does not ap 4. The test result judgment is	requirement. The requirement. The the requirement.		PASS	5
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3. EUT Description

Product:	Android dongle	
Model No.:	MG-S01	
Additional Model No.:	N/A	
Trade Mark:	N/A	
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20))	
Channel Separation:	5MHz	ć
Number of Channel:	11 for 802.11b/802.11g/802.11n(HT20)	
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, 11Mbps	Ś
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps	
Data speed (IEEE 802.11n):	Up to 150Mbps	
Antenna Type:	Internal Antenna	
Antenna Gain:	2.14dBi	.c
Power Supply:	DC 5V	



4	operation	Frequency	each of	channel Fo	or 802.11	b/g/n(Ħ120)		
	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		(_x G`)

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

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

4. General Information

4.1. Test environment and mode

Operating Environment:

Condition	Conducted Emission	Radiated Emission	
Temperature:	25.0 °C	25.0 °C	
Humidity:	55 % RH	55 % RH	
Atmospheric Pressure:	1010 mbar	1010 mbar	

Test Mode:

Engineering mode: Keep the EUT in continuous transmitting by select channel and modulations

The sample was placed 0.8m & 1.5m for the measurement below & 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(Z axis) are shown in Test Results of the following pages.

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

Final Test Mode:

Operation mode:	Keep the EUT in continuous transmitting with modulation

1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.

2.According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20). Duty cycle setting during the transmission is 98.46% with maximum power setting for all modulations.

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4.2. Description of Support Units

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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
Adapter	JD-050200	2012010907576735	/	/
Notebook Computer	XiaoXin CHAO5000	PF0WZYD9	10	Lenovo

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

TCT通测检测 TCT通测检测

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.

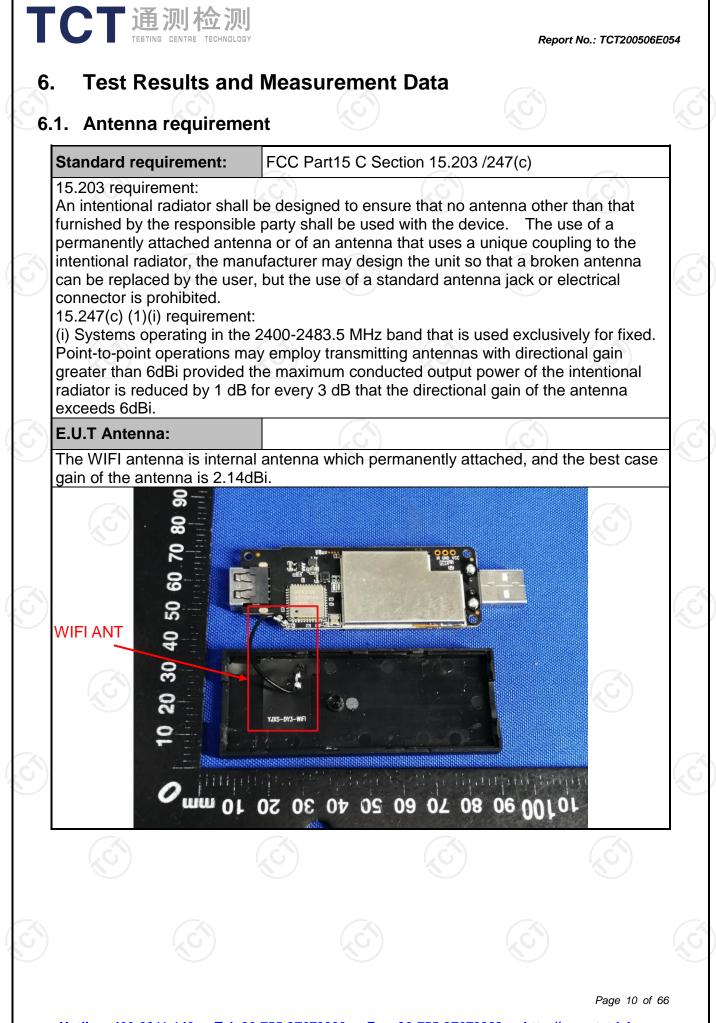
Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

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%	



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6.2. Conducted Emission

TCT 通测检测 TESTING CENTRE TECHNOLOGY

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207			
Test Method:	ANSI C63.10:2013	<u>(</u>)	$\langle \langle \mathcal{O} \rangle \rangle$		
Frequency Range:	150 kHz to 30 MHz	150 kHz to 30 MHz			
Receiver setup:	RBW=9 kHz, VBW=30	RBW=9 kHz, VBW=30 kHz, Sweep time=auto			
	Frequency range	Limit (dBuV)		
	(MHz)	Quasi-peak	Áverage		
Limits:	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	Reference	e Plane			
Test Setup:	E.U.T AC powe Test table/Insulation plane Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Ne Test table height=0.8m	EMI Receiver	— AC power		
Test Mode:	Charging + transmitting	g with modulation			
Test Procedure:	 line impedance sta provides a 50ohm/s measuring equipme 2. The peripheral device power through a LI coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interferer emission, the relative the interface cables 	 The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and 			

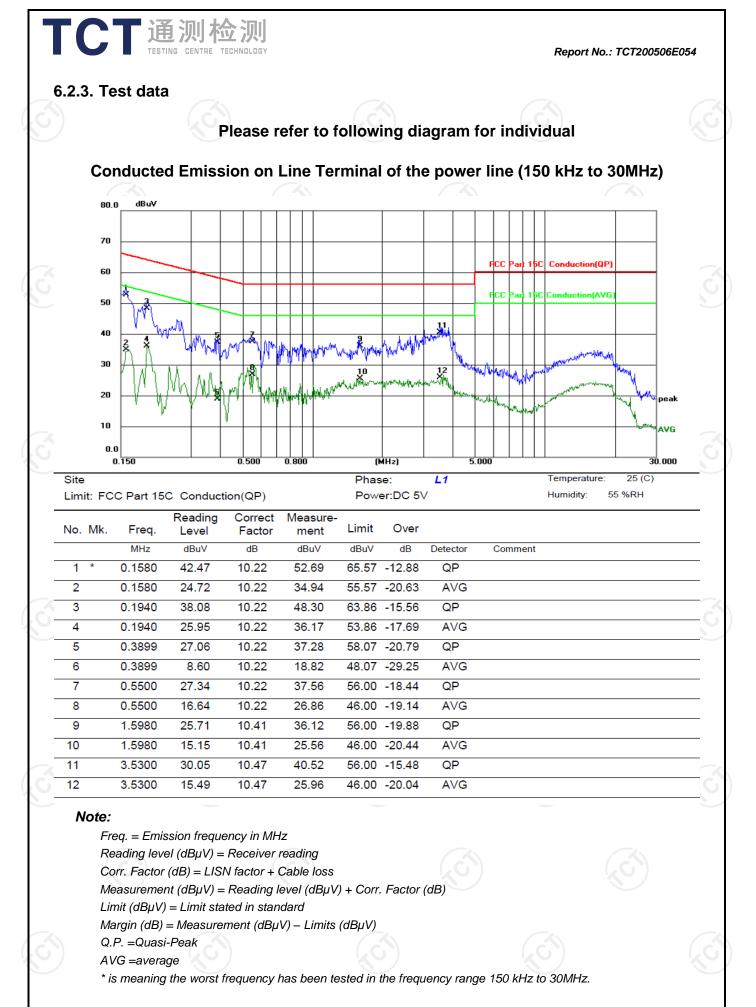
Report No.: TCT200506E054

6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)								
Equipment Manufacturer Model Serial Number Calibration								
Test Receiver	R&S	ESPI	101402	Jul. 29, 2020				
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 11, 2020				
Coax cable (9KHz-30MHz)	тст	CE-05	N/A	Sep. 08, 2020				
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).

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CT通测检测 TESTING CENTRE TECHNOLOGY Report No.: TCT200506E054 Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz) dBu¥ 80.0 70 FCC ^oar 15C Conduction(QP) 60 FCC P onduction(AVG) 15C 50 40 30 20 Deak 10 AVG 0.0 0 800 5 000 0.150 0.500 (MHz) 30.000 Site Phase: Ν Temperature: 25 (C) Limit: FCC Part 15C Conduction(QP) Power:DC 5V Humidity: 55 %RH Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dB dBuV dBuV dB Detector Comment 0.1785 39.01 10.22 49.23 64.56 -15.33 QP 1 2 0.1785 22.21 10.22 32.43 54.56 -22.13 AVG QP 3 0.2179 35.17 10.23 45.40 62.90 -17.50 4 0.2179 25.89 10.23 36.12 52.90 -16.78 AVG 0.5738 10.23 37.14 56.00 -18.86 QP 5 26.91 0.5738 21.68 31.91 46.00 -14.09 6 10.23 AVG QP 7 1.2540 10.38 31.92 56.00 -24.08 21.54 8 1.2540 15.36 10.38 25.74 46.00 -20.26 AVG 9 1.9258 22.87 10.44 33.31 56.00 -22.69 QP 10 1.9258 14.48 10.44 24.92 46.00 -21.08 AVG 3.5900 28.29 10.47 38.76 56.00 -17.24 QP 11 12 3.5900 10.47 46.00 -19.30 16.23 26.70 AVG Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V) = Receiver reading$

Corr. Factor (dB) = LISN factor + Cable loss

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

Limit (dB μ V) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

Q.P. =Quasi-Peak AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

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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 D01 v05r02
Limit:	30dBm
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 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								
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2020				
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2020				
Antenna Connector	ТСТ	RFC-01	N/A	Sep. 11, 2020				

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

6.4. Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB 558074 D01 v05r02
Limit:	>500kHz
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 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 (C)

6.4.2. Test Instruments

RF Test Room									
Equipment Manufacturer Model Serial Number Calibration									
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2020					
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2020					
Antenna Connector	тст	RFC-01	N/A	Sep. 11, 2020					

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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6.5. Power Spectral Density

6.5.1. 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 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 Model Serial Number Calibration D									
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2020					
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2020					
Antenna Connector	тст	RFC-01	N/A	Sep. 11, 2020					

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

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:	
	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 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, 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 in-band peak PSD level in 100 kHz when 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). Measure and record the results in the test report. 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

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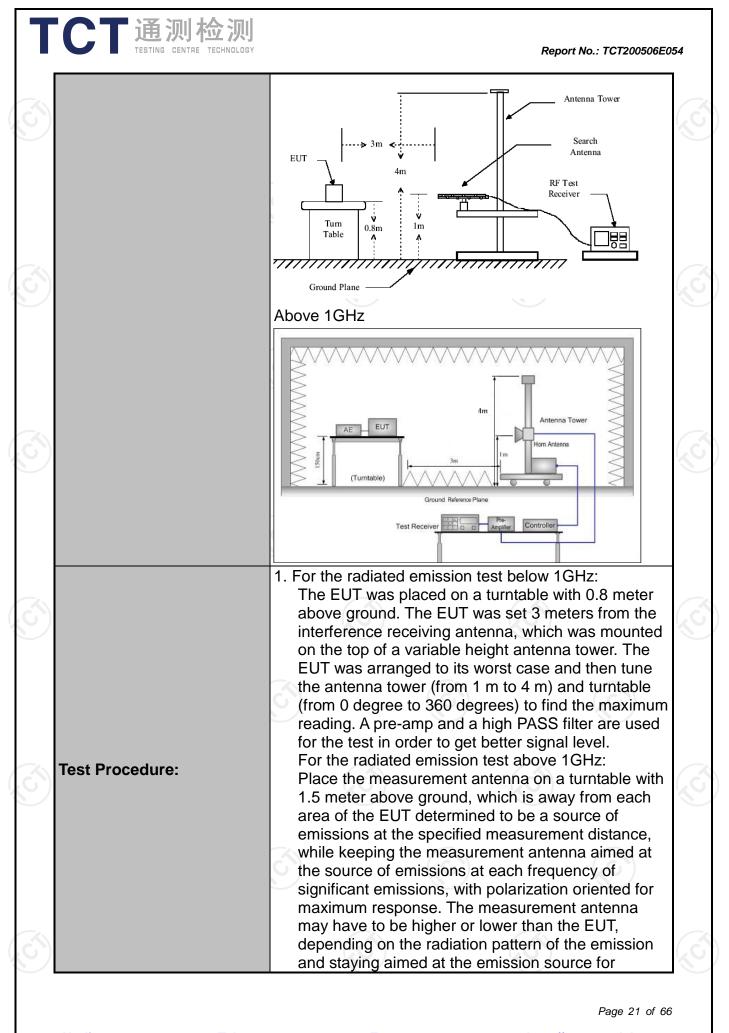
RF Test Room									
Equipment Manufacturer Model Serial Number Calibration									
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2020					
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2020					
Antenna Connector	тст	RFC-01	N/A	Sep. 11, 2020					

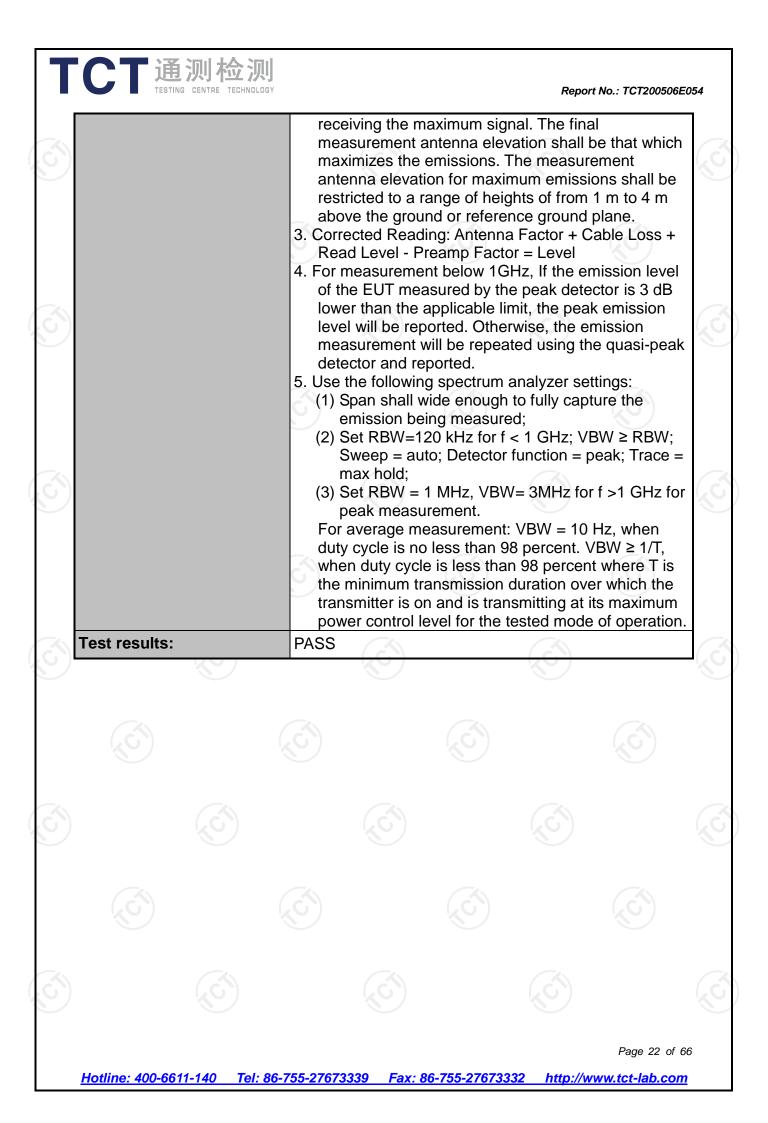
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.7. Radiated Spurious Emission Measurement

6.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209							
Test Method:	ANSI C63.10): 2013						
Frequency Range:	9 kHz to 25 GHz							
Measurement Distance:	3 m							
Antenna Polarization:	Horizontal & Vertical							
Operation mode:	Transmitting	Transmitting mode with modulation						
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz	Detector Quasi-peak Quasi-peak	No. A Contraction of the second secon	VBW 1kHz 30kHz	Remark Quasi-peak Value Quasi-peak Value			
Accerver octup.	30MHz-1GHz Above 1GHz	Quasi-peak Peak Neak	120KHz 1MHz 1MHz	300KHz 3MHz 10Hz	Quasi-peak Value Peak Value Average Value			
	Frequen		Field Stre	/meter)	Measurement Distance (meters)			
	0.009-0.490		2400/F(KHz) 24000/F(KHz)		300 30			
	1.705-3	1	30		30			
	30-88		100		3			
_imit:	88-216		150		3			
	216-960 Above 960		200 500		3			
	A00ve 9	500		I	0			
			eld Strength crovolts/meter) Measure Distar (mete		ce	Detector		
	Above 1GHz		500 3 5000 3			Average Peak		
	For radiated	emissions	below 30)MHz	Comput	ier		
Test setup:	EUT Pre - Amplifier				Ъ			
	0.8m	0.8m			Receiver			
	30MHz to 10							
(S)		5)		Ś				

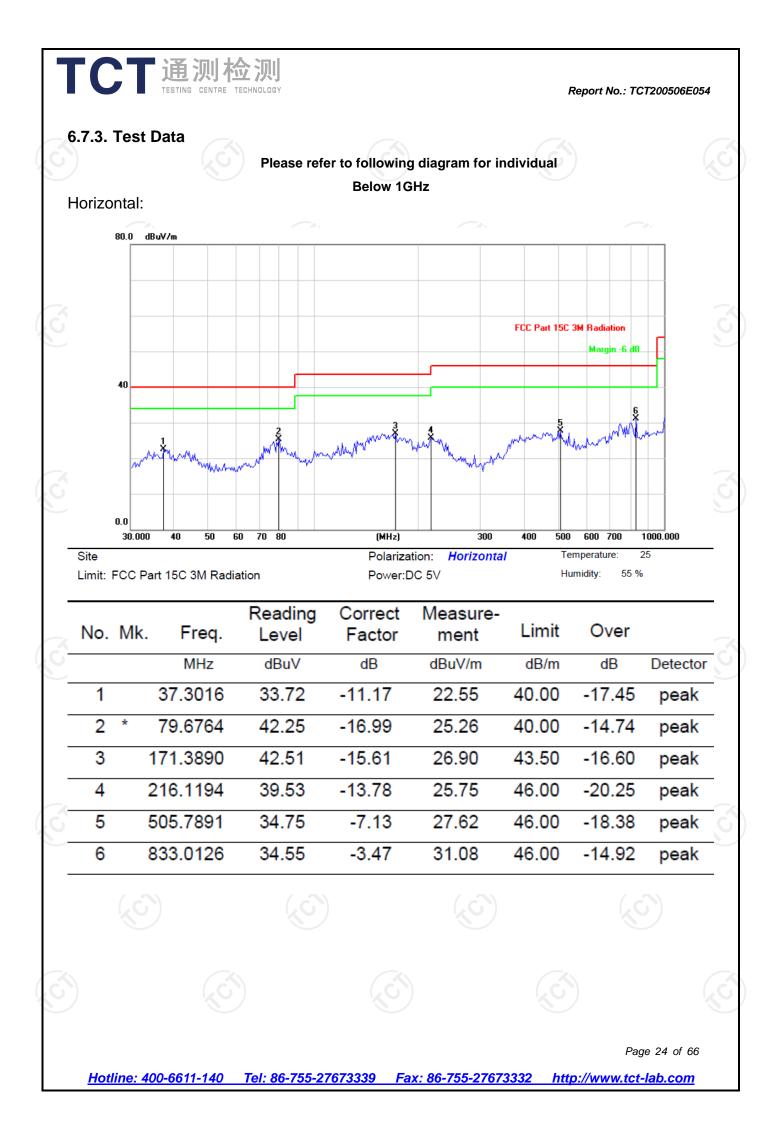


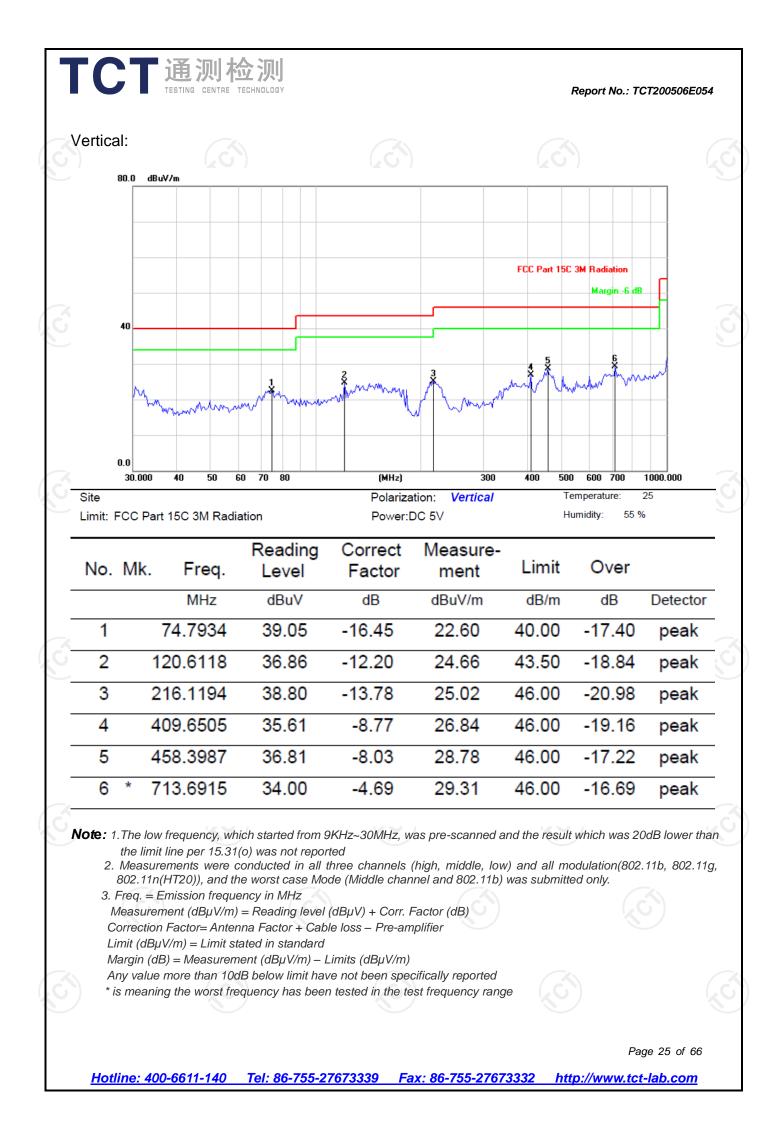


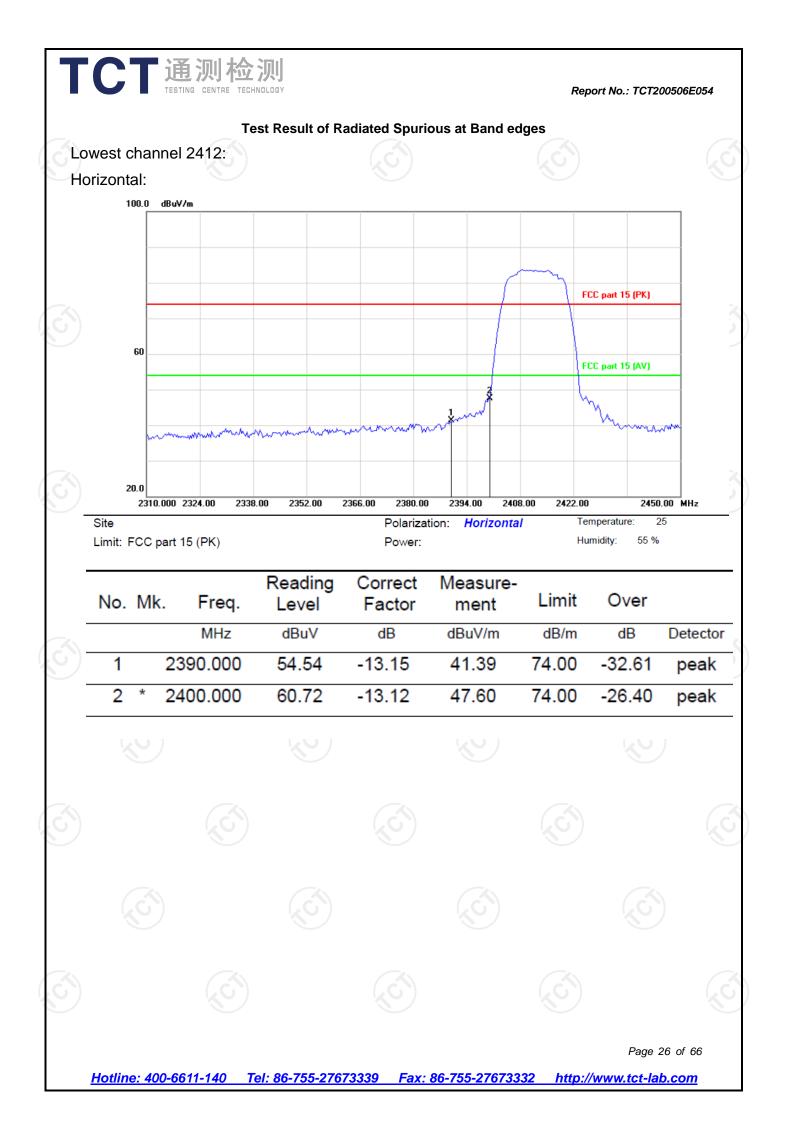
6.7.2. Test Instruments

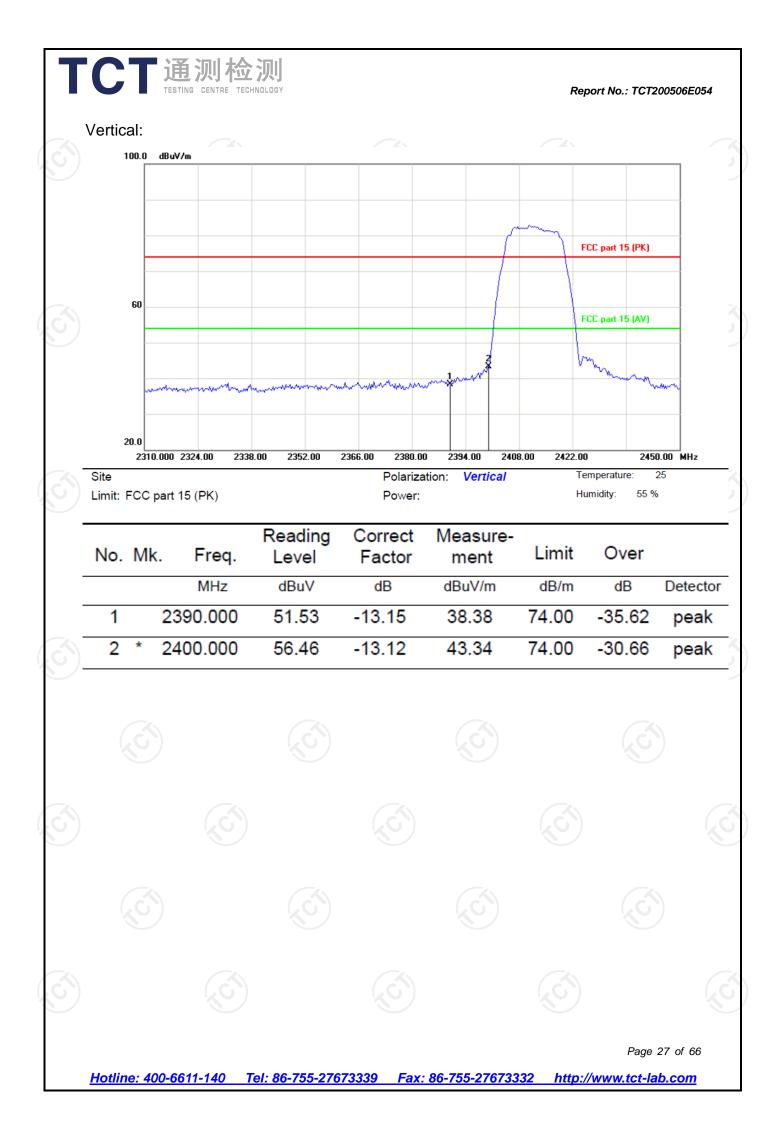
	Radiated Em	ission Test Site	e (966)			
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 29, 2020		
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 11, 2020		
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 08, 2020		
Pre-amplifier	HP	8447D	2727A05017	Sep. 08, 2020		
Loop antenna	ZHINAN	ZN30900A	12024	Oct. 27, 2020		
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 06, 2020		
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 06, 2020		
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 06, 2020		
Antenna Mast	Keleto	RE-AM	N/A	N/A		
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 08, 2020		
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 08, 2020		
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A		

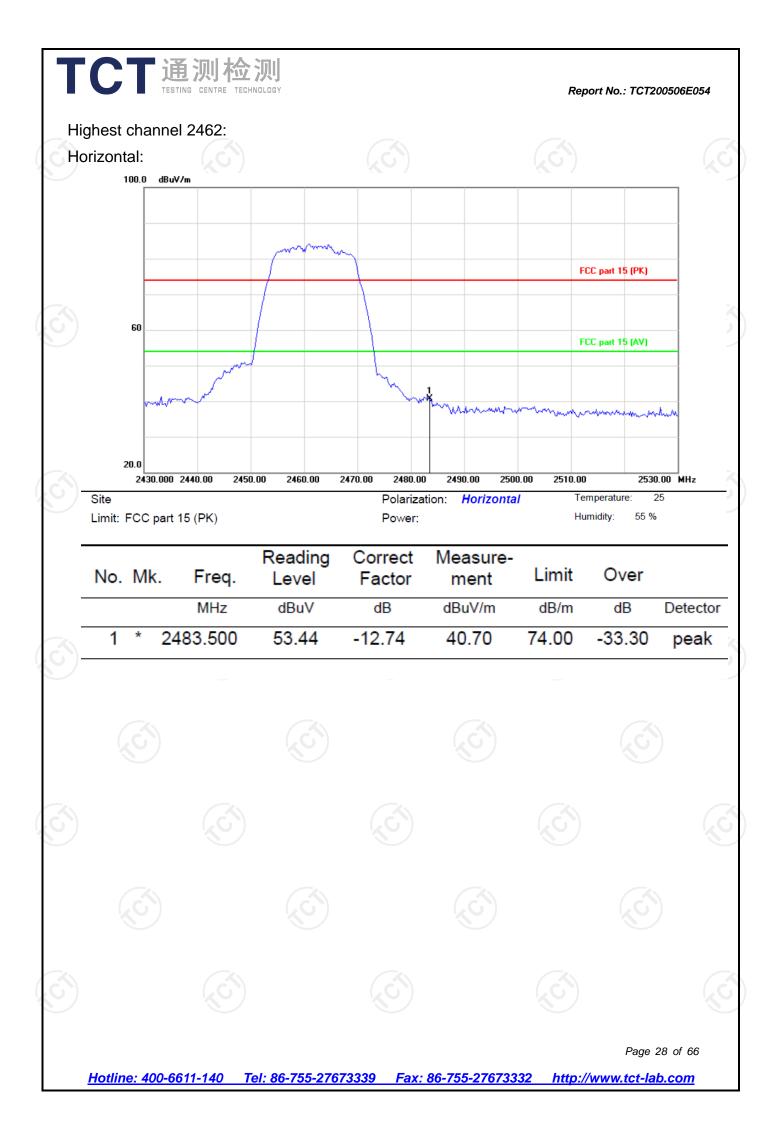
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

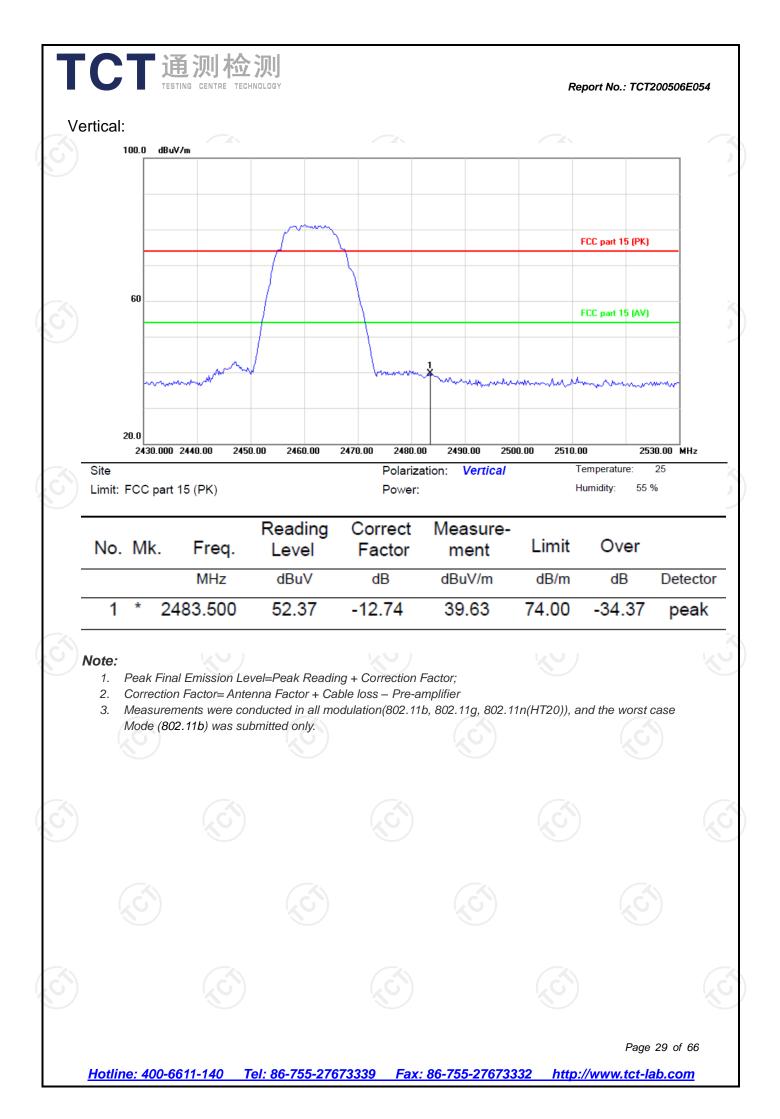












			М	Above Iodulation T	• 1GHz ype: 802.11	1b			
			Ļ	Low channe	I: 2412 MH	z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)		Margin (dB)
4824	Н	49.12		0.75	49.87	·	74	54	-4.13
7236	СH	38.54	μ. C	9.87	48.41	<u>,0</u>	74	54	-5.59
	Ĥ								
4824	V	47.36		0.75	48.11		74	54	-5.89
7236	V	36.47		9.87	46.34		74	54	-7.66
(J [*])	V			(. ((
			·	<u> </u>	\supset			<u> </u>	J.

			M	iddle chanr	nel: 2437M⊦	lz			
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	Ч	48.69		0.97	49.66		74	54	-4.34
7311	H	39.21		9.83	49.04		74	54	-4.96
	Н								
4874	V	49.05		0.97	50.02		74	54	-3.98
7311	V	39.28		9.83	49.11		74	54	-4.89
	V								\

	High channel: 2462 MHz										
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	Н	47.87		1.18	49.05		74	54	-4.95		
7386	Н	38.36		10.07	48.43		74	54	-5.57		
	Н										
				(((é		
4924	V	46.74		1.18	47.92		74	54	-6.08		
7386	V	36.91		10.07	46.98		74	54	-7.02		
	V										

Note:

TCT通测检测 TESTING CENTRE TECHNOLOGY

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.

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.

6. All the restriction bands are compliance with the limit of 15.209.

_			М	odulation T	ype: 802.11	lg			
_			L	ow channe	I: 2412 MH	z			
Frequency	Ant. Pol.	Peak	AV reading	Correction	Emissic	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBµV)	(dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
4824	Н	48.67		0.75	49.42		74	54	-4.58
7236	Н	39.02		9.87	48.89		74	54	-5.11
	Н								
	2G [•]))	()	$\langle \mathbf{O} \rangle$			
4824	V	47.39		0.75	48.14		74	54	-5.86
7236	V	38.17		9.87	48.04		74	54	-5.96
	V								

Middle channel: 2437MHz									
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	48.58		0.97	49.55		74	54	-4.45
7311	Н	37.26		9.83	47.09		74	54	-6.91
	C H								
4874	V	47.81		0.97	48.78		74	54	-5.22
7311	V	38.63		9.83	48.46		74	54	-5.54
N	V								(

			F	ligh channe	l: 2462 MH				
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	Н	49.21		1.18	50.39		74	54	-3.61
7386	H	38.74		10.07	48.81	-	74	54	-5.19
	H								
4924	V	46.89		1.18	48.07		74	54	-5.93
7386	V	37.44		10.07	47.51		74	54	-6.49
/	V			🔨	2 /				X

Note:

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.

6. All the restriction bands are compliance with the limit of 15.209.

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			Modu	lation Type:	: 802.11n (H	HT20)			
			Ĺ	ow channe.	I: 2412 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)
4824	Н	47.69		0.75	48.44		74	54	-5.56
7236	Н	38.44		9.87	48.31		74	54	-5.69
	Н								
	$\langle \mathbf{G} \rangle$				()	$\langle \mathbf{G} \rangle$	•		
4824	V	49.31		0.75	50.06		74	54	-3.94
7236	V	38.95		9.87	48.82		74	54	-5.18
	V								
2					Z				

		(G)	М	iddle chanr	el: 2437MH	Ιz	(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	48.27		0.97	49.24		74	54	-4.76
7311	H	39.03		9.83	48.86		74	54	-5.14
	Ч Ч								/
4874	V	47.58		0.97	48.55		74	54	-5.45
7311	V	37.36		9.83	47.19		74	54	-6.81
	V			((

			F	ligh channe	l: 2462 MH	Z			6
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	48.78		1.18	49.96		74	54	-4.04
7386	H	38.46		10.07	48.53	-	74	54	-5.47
	H)						
4924	V	46.59		1.18	47.77		74	54	-6.23
7386	V	37.14		10.07	47.21		74	54	-6.79
//	V				2 /				<

Note:

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.

6. All the restriction bands are compliance with the limit of 15.209.

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