

**FCT**通测检测 TESTING CENTRE TECHNOLOGY

> FCC ID: TUVD-19 Product: 2.4G Wireless Optical Mouse Model No.: D-19 Additional Model: DS-2705, GEPC073AB, PC073A Trade Mark: N/A Report No.: TCT170612E033 Issued Date: Jun. 22, 2017

Eastern Times Technology Co., Ltd. Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City, Guangdong, China.

Issued for:

Issued By:

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## 1. Test Certification

Product:	2.4G Wireless Optical Mouse						
Model No.:	D-19	No.					
Additional Model:	DS-2705, GEPC073AB, PC073A						
Trade Mark:	N/A 🔇 🔇						
Applicant:	Eastern Times Technology Co., Ltd.						
Address:	Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City, Guangdong, China.						
Manufacturer:	Eastern Times Technology Co., Ltd.						
Address:	Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City, Guangdong, China.						
Date of Test:	Jun. 13, 2017 – Jun. 21, 2017	Jun. 13, 2017 – Jun. 21, 2017					
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.249	C)					

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:	Brens Xu 🔊	Date:	Jun. 21, 2017	
Reviewed By:	Brews Xu Zon Thm	Date:	Jun. 22, 2017	
Approved By:	Joe Zhou TomSin Tomsin	Date:	Jun. 22, 2017	
	Tomsin		Page	3 of 27



# 2. Test Result Summary

	quirement		CFR 47 Se	ection		Result	
Antenna	a Requirement		§15.20	3		PASS	0
	Line Conducted	(3)	§15.20	7		N/A	
	Strength of ndamental		§15.249	(a)		PASS	
Spurio	us Emissions	§15	§2.105 .249 (a) (d)		S	PASS	No.
Ba	and Edge	§1	§2.105   5.249 (d)			PASS	
20dB Occupied Bandwidth		§2.1049 §15.215 (c)			PASS		
	st item meets the require t item does not meet the						
3. N/A: Tes	t case does not apply to result judgment is decide	the test objec	ct.	d.			

# 3. EUT Description

TCT通测检测 TECT通测检测

Product:	2.4G Wireless Optical Mouse	
Model No.:	D-19	
Additional Model:	DS-2705, GEPC073AB, PC073A	
Trade Mark:	Mark: N/A	
<b>Operation Frequency:</b>	2408 - 2474MHz	
Number of Channel:	34	
Modulation Technology:	FSK	
Antenna Type:	PCB Antenna	
Antenna Gain:	-2dBi	
Power Supply:	DC 3V (2pcs AA Battery)	
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.	

#### **Operation Frequency Each of Channel**

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2408MHz	10	2428 MHz	20	2448 MHz	30	2468 MHz
1	2410 MHz	11	2430 MHz	21	2450 MHz	31	2470 MHz
2	2412 MHz	12	2432 MHz	22	2452 MHz	32	2472 MHz
3	2414 MHz	13	2434 MHz	23	2454 MHz	33	2474 MHz
4	2416 MHz	14	2436 MHz	24	2456 MHz	$(\mathbf{C})$	10
5	2418 MHz	15	2438 MHz	25	2458 MHz		
6	2420 MHz	16	2440 MHz	26	2460 MHz		
7	2422 MHz	17	2442 MHz	27	2462 MHz		$(\mathbf{G})$
8	2424 MHz	18	2444 MHz	28	2464 MHz		
9	2426 MHz	19	2446 MHz	29	2466 MHz		

#### 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:

Channel	Frequency
The lowest channel	2408MHz
The middle channel	2440MHz
The Highest channel	2474MHz

## 4.1. Test Environment and Mode

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4.

Operating Environment:	
Temperature:	25.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	

Engineering mode: channel	Z Endineenno moge	Keep the EUT in continuous transmitting by select channel
---------------------------	-------------------	---

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.

# 4.2. Description of Support Units

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
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.

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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.: 572331

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

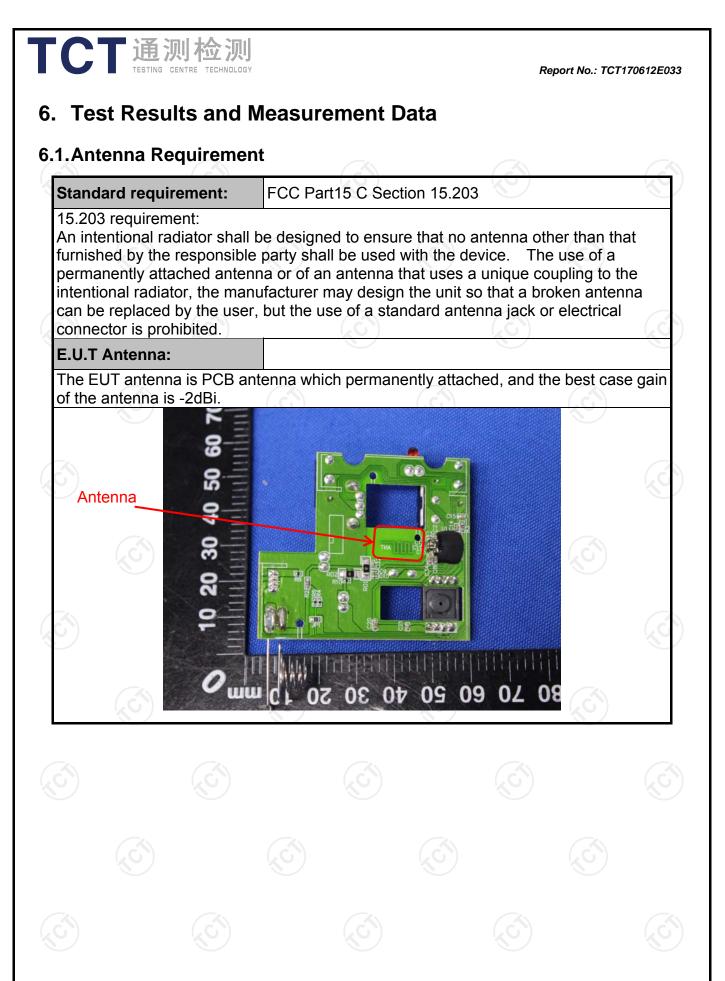
Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China TEL: +86-755-27673339

## 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(<1GHz)	±3.92dB
5	All emissions, radiated(>1GHz)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%





ANSI C63.10:2013 Frequency Range: 150 kHz to 30 MHz **Receiver setup:** RBW=9 kHz, VBW=30 kHz, Sweep time=auto Frequency range Limit (dBuV) Quasi-peak (MHz) Average Limits: 0.15-0.5 66 to 56\* 56 to 46\* 0.5-5 56 46 5-30 60 50 Reference Plane LISN LISN 40cm 80cm |Filter | - AC power AUX E.U.T Equipment **Test Setup:** EMI Receiver Test table/Insulation plane Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m Test Mode: Transmitting mode with modulation 1. The E.U.T and simulators are 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. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please **Test Procedure:** refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. N/A; The EUT is supplied by 3V from AA battery, so Test Result: Conducted Emission is not applicable.

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6.2. Conducted Emission

6.2.1. Test Specification

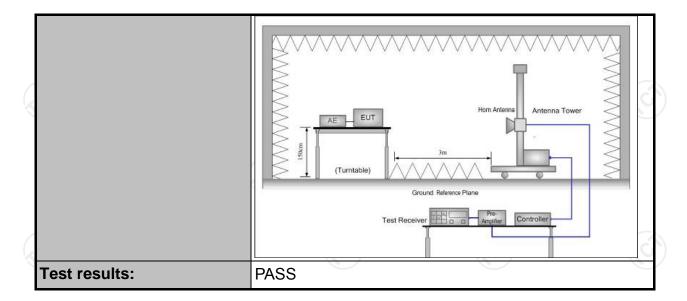
## 6.3. Radiated Emission Measurement

## 6.3.1. Test Specification

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Test Requirement:	FCC Part15	C Sectior	n 15.209/	Part 2 J	Section 2.1053	
Test Method:	ANSI C63.1	0:2013				
Frequency Range:	9 kHz to 25	GHz				
Measurement Distance:	3 m	~	J			
Antenna Polarization:	Horizontal &	& Vertical				
	Frequency	Detector	RBW	VBW	Remark	
	9kHz- 150kHz	~ /	200Hz	1kHz	Quasi-peak Value	
Receiver Setup:	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value	
•	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value	
	Above 1GHz	Peak	1MHz	3MHz	Peak Value	
	Above ronz	Peak	1MHz	10Hz	Average Value	
Limit(Field strength of the	Freque	ency	Limit (dBu	V/m @3m)	Remark	
fundamental signal):	2400MHz-24		94.	00	Average Value	
runuamentai signai).	240010112-24	+03.5IVII IZ	114.00		Peak Value	
	Frequency		Limit (dBuV/m @3m)		Remark	
	0.009-0.490		2400/F(KHz)		Quasi-peak Value	
	0.490-1.705		24000/F(KHz)		Quasi-peak Value	
	1.705-30		30		Quasi-peak Value	
Limit(Spurious Emissions):	30MHz-88MHz		40.0 43.5		Quasi-peak Value	
· · · · · · · · · · · · · · · · · · ·	88MHz-216MHz 216MHz-960MHz		43.5		Quasi-peak Value	
	960MHz-1GHz		54.0		Quasi-peak Value Quasi-peak Value	
			54.0		Average Value	
	Above 1GHz		74.0		Peak Value	
Limit (band edge) :	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209,					
Test Procedure:	<ul> <li>whichever is the lesser attenuation.</li> <li>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber in below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make</li> </ul>					

	<ul> <li>the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have</li> </ul>
	10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	For radiated emissions below 30MHz
	Distance = 3m Computer Pre -Amplifier FUT Turn table Ground Plane
	30MHz to 1GHz
Test setup:	EUT Antenna Tower EUT Antenna EUT America Search Antenna RF Test Receiver
	Turn Table 0.8m 1m A A A Ground Plane Above 1GHz
	(The diagram below shows the test setup that is utilized to make the measurements for emission from 1GHz to the tenth harmonic of the highest fundamental frequency or to 40GHz emissions, whichever is lower.)



#### 6.3.2. Test Instruments

	(2G*)		$(\chi G^{*})$		
ESPI Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Aug. 11, 2017	
Spectrum Analyzer	Spectrum Analyzer ROHDE&SCHW ARZ		848597/001	Aug. 11, 2017	
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 12, 2017	
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Aug. 11, 2017	
Pre-amplifier HP		8447D	2727A05017	Aug. 11, 2017	
Loop antenna	ZHINAN	ZN30900A	12024	Aug. 13, 2017	
Broadband Antenna	Schwarzbeck	VULB9163	340	Aug. 13, 2017	
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Aug. 13, 2017	
Horn Antenna	Schwarzbeck	BBHA 9170	373	Aug. 13, 2017	
Coax cable	тст	RE-low-01	N/A	Aug. 11, 2017	
Coax cable	тст	RE-high-02	N/A	Aug. 11, 2017	
Coax cable	тст	RE-low-03	N/A	Aug. 11, 2017	
Coax cable	ТСТ	RE-high-04	N/A	Aug. 11, 2017	
Antenna Mast	CCS	CC-A-4M	S) N/A	N/A	
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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#### 6.3.3. Test Data

#### **Field Strength of Fundamental**

Frequency (MHz)	Emission PK (dBuV/m)	Horizontal /Vertical	Limits PK (dBuV/m)	Margin (dB)
2408	79.33	Н	114	-34.67
2408	77.81	V C	114	-36.19
2440	78.50	н	114	-35.50
2440	76.55	V	114	-37.45
2474	80.61	GH	114	-33.39 📿
2474	73.46	V	114	-40.54

Emission AV (dBuV/m)	Horizontal /Vertical	Limits AV (dBuV/m)	Margin (dB)
76.92	Н	94	-17.08
75.57	(C)V	94	-18.43
76.31	Н	94	-17.69
74.31	V	94	-19.69
78.53	н «С	94	-15.47
71.05	V	94	-22.95
	(dBuV/m) 76.92 75.57 76.31 74.31 78.53	(dBuV/m)/Vertical76.92H75.57V76.31H74.31V78.53H	(dBuV/m)/Vertical(dBuV/m)76.92H9475.57V9476.31H9474.31V9478.53H94

#### Spurious Emissions

#### Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
$(\mathcal{A}^{\circ})$	(¿C`) (¿C`)	- <del>(</del> «G`)
	<u> </u>	
- (4)		

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement







# TCT通波检波 Frequency Range (30MHz-1GHz) Horizontal:

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40

0.0 30.000 60 70 80 (MHz) 300 400 500 600 700 1000.000 40 50 Temperature: 25 (C) Site Chamber Polarization: Horizontal Humidity: 55 % Limit: FCC Part 15B Class B 3M Radiation Power: DC 3V

Mar Marthalingt

1.14

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		40.4172	30.20	-12.46	17.74	40.00	-22.26	QP		
2		60.0690	31.06	-12.84	18.22	40.00	-21.78	QP		
3		97.1148	28.27	-11.89	16.38	43.50	-27.12	QP		
4		239.9874	30.22	-10.31	19.91	46.00	-26.09	QP		
5		504.7062	28.77	-2.92	25.85	46.00	-20.15	QP		
6	*	768.7481	29.73	1.04	30.77	46.00	-15.23	QP		

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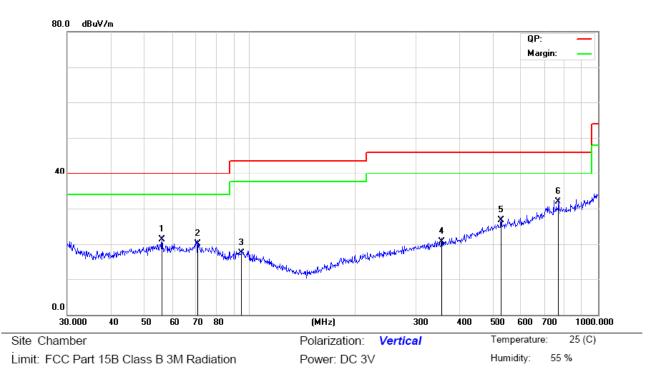
QP: Margin:

> 6 X

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#### Vertical:

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No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	56.0007	33.81	-12.51	21.30	40.00	-18.70	QP	
2	71.0802	36.63	-16.48	20.15	40.00	-19.85	QP	
3	95.0930	29.78	-12.19	17.59	43.50	-25.91	QP	
4	356.6757	27.82	-7.08	20.74	46.00	-25.26	QP	
5	528.2458	29.31	-2.68	26.63	46.00	-19.37	QP	
6 *	768.7481	30.88	1.04	31.92	46.00	-14.08	QP	

**Note:** Measurements were conducted in all channels (high, middle, low), and the worst case (low channel) was submitted only.

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				1.0010						
	Low channel: 2408MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)		Peak limit (dBµV/m)		Margin (dB)	
2387.50	Н	52.62		-4.2	48.28		74.00	54.00	-5.72	
4816.00	Н	51.51		-3.94	47.41		74.00	54.00	-6.59	
7224.00	Н	49.73		0.52	49.55		74.00	54.00	-4.45	
				2						
2387.50	V	50.45	-4,0	-4.2	46.05	<u>, C <del>]</del></u>	74.00	54.00	-7.95	
4816.00	V	48.49		3.94	52.33		74.00	54.00	-1.67	
7224.00	V	46.20		0.52	46.85		74.00	54.00	-7.15	

Above 1GHz

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Middle channel: 2440MHz									
Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	AV			Margin (dB)	
Н	52.37	-+-0	-3.98	48.18		74.00	54.00	-5.82	
Н	49.41		0.57	49.84		74.00	54.00	-4.16	
				×					
	(20)			( ( (		(C)			
V	51.69		-3.98	47.28		74.00	54.00	-6.72	
V	49.74		0.57	49.62		74.00	54.00	-4.38	
				/					
			)						
	H/V H H   V V V 	Ant. Pol.         reading (dBμV)           H/V         reading (dBμV)           H         52.37           H         49.41                   V         51.69           V         49.74	Ant. Pol. H/V         Peak reading (dBµV)         AV reading (dBµV)           H         52.37            H         49.41                      V         51.69         V           V         49.74	Ant. Pol. H/V         Peak reading (dBµV)         AV reading (dBµV)         Correction Factor (dB/m)           H         52.37          -3.98           H         49.41          0.57                             V         51.69         -3.98           V         49.74         0.57	Ant. Pol. H/V         Peak reading (dBµV)         AV reading (dBµV)         Correction Factor (dB/m)         Emissic Peak (dBµV/m)           H         52.37          -3.98         48.18           H         49.41          0.57         49.84                                       V         51.69         -3.98         47.28           V         49.74         0.57         49.62	Ant. Pol. H/V         Peak reading (dBµV)         AV reading (dBµV)         Correction Factor (dB/m)         Emission Level Peak (dBµV/m)           H         52.37          -3.98         48.18            H         49.41          0.57         49.84  V         51.69        3.98         47.28                             -	Ant. Pol. H/V         Peak reading (dBµV)         AV reading (dBµV)         Correction Factor (dB/m)         Emission Level Peak (dBµV/m)         Peak limit (dBµV/m)           H         52.37          -3.98         48.18          74.00           H         49.41          0.57         49.84          74.00                 74.00                 74.00   V         51.69         -3.98	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	

				High chann	el: 2474MH	Ηz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2486.58	Н	51.49		-2.38	49.47		74.00	54.00	-4.53
4948.00	Н	53.37		-3.98	49.03		74.00	54.00	-4.97
7422.00	Н	48.25		0.57	49.26		74.00	54.00	-4.74
			-+.c						
			N.	)	(				
2483.51	V	51.15		-2.38	48.66		74.00	54.00	-5.34
4948.00	V	51.70		-3.98	47.64		74.00	54.00	-6.36
7422.00	V	50.60		0.57	50.94		74.00	54.00	-3.06
<u> </u>				(,	<b>(</b> )				, G
loto:									

#### Note:

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

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

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.



#### Band Edge Requirement

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Low chann	Low channel: 2408 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
2400	Н	49.13	/	-4.2	44.93		74.00		-29.07	
2400	Н		42.56	-4.2		38.36		54.00	-15.64	
2400	V	48.61	(	-4.2	44.41		74.00		-29.59	
2400	V		39.78	-4.2		35.58		54.00	-18.42	

Hic	۱h	channel.	2474MHz

High chanr	nel: 2474N	lHz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2483.5	H	50.84		-4.2	46.64		74.00		-27.36
2483.5			41.63	-4.2		37.43		54.00	-16.57
			~						
2483.5	V	49.39		-4.2	45.19		74.00		-28.81
2483.5	V		40.82	-4.2		36.62		54.00	-17.38
		<u> </u>	/		$\mathcal{O}$				

#### Note:

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

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

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.

Page 17 of 27 Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

## 6.4.20dB Occupied Bandwidth

### 6.4.1. Test Specification

TCT通测检测 TECTING CENTRE TECHNOLOGY

Test Requirement:	FCC Part15 C Section 2.1049	15.215(c)/ Par	t 2 J Section			
Test Method:	ANSI C63.10: 2013					
Limit:	N/A	6)				
	<ol> <li>According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dE bandwidth, centered on a hopping channel; RBW≥1% of the 20 dB bandwidth; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> <li>Measure and record the results in the test report.</li> </ol>					
Test setup:	Spectrum Analyzer	EUT				
Test Mode:	Transmitting mode with	h modulation	No.			
Test results:	PASS					

#### 6.4.2. Test Instruments

(	RF Test Room							
0	Equipment	Manufacturer	Model	Serial Number	Calibration Due			
	Spectrum Analyzer	R&S	FSU	200054	Aug. 11, 2017			

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



#### 6.4.3. Test data

Test Channel	20dB Occupy Bandwidth (kHz)	Limit	Conclusion		
Lowest	2091.35	-	PASS		
Middle	2091.35		PASS		
Highest	2091.35		PASS		
Tost plots as follows:					

Test plots as follows:

Test plots as fo	llows:						
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