

TEST REPORT

FCC ID: TUVD-09

Product: 2.4G Wireless Optical Mouse

Model No.: D-09

Additional Model: DS-2509, CA57BN, GEPC051AS, GEPC051AD, GEPC051AJ, GEPC051AP, GEPC051AU, GEPC051AA, GEPC051AW, GEPC051AH, GEPC051AL, GEPC051AR, PC051A

Trade Mark: N/A

Report No.: TCT170608E008

Issued Date: Jul. 04, 2017

Issued for:

Eastern Times Technology Co., Ltd.

Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town,
Dongguan City, Guangdong, China.

Issued By:

Shenzhen Tongce Testing Lab.

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





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1. Test Certification

Report No.: TCT170608E008

Product:	2.4G Wireless Optical Mouse					
Model No.:	D-09					
Additional Model:	DS-2509, CA57BN, GEPC051AS, GEPC051AD, GEPC051AJ, GEPC051AP, GEPC051AU, GEPC051AA, GEPC051AW, GEPC051AH, GEPC051AL, GEPC051AR, PC051A					
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.	(C_{λ})				
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. 09, 2017 – Jul. 03, 2017	.C				
Applicable Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249						

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: GWW	Date:	Jul. 03, 2017	
Garen Reviewed By:	Date:	Jul. 04, 2017	
Approved By: Joe Zhou Tomsin	Date:	Jul. 04, 2017	



2. Test Result Summary

Requirement	CFR 47 Section	Result	
Antenna Requirement	§15.203	PASS	
AC Power Line Conducted Emission	§15.207	N/A	
Field Strength of Fundamental	§15.249 (a)	PASS	
Spurious Emissions	§2.1053 §15.249 (a) (d)/ §15.209	PASS	
Band Edge	§2.1053 §15.249 (d)/ §15.205	PASS	
20dB Occupied Bandwidth	§2.1049 §15.215 (c)	PASS	

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.





3. EUT Description

Product:	2.4G Wireless Optical Mouse				
Model No.:	D-09				
Additional Model:	DS-2509, CA57BN, GEPC051AS, GEPC051AD, GEPC051AJ, GEPC051AP, GEPC051AU, GEPC051AA, GEPC051AW, GEPC051AH, GEPC051AL, GEPC051AR, PC051A				
Trade Mark:	N/A				
Operation Frequency:	2408 - 2474MHz				
Number of Channel:	34				
Modulation Technology:	FSK				
Antenna Type:	PCB Antenna				
Antenna Gain:	-2dBi				
Power Supply:	DC 1.5V (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		
5	2418 MHz	15	2438 MHz	25	2458 MHz		(C)
6	2420 MHz	16	2440 MHz	26	2460 MHz		
7	2422 MHz	17	2442 MHz	27	2462 MHz		
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

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4. Genera Information

4.1. Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	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 (6)	1 (3	1	(c) 1	(C)

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.





TESTING CENTRE TECHNOLOGY Report No.: TCT170608E008

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 (C)	±1.0%



6. Test Results and Measurement Data

6.1. Antenna Requirement

Standard requirement:

FCC Part15 C Section 15.203

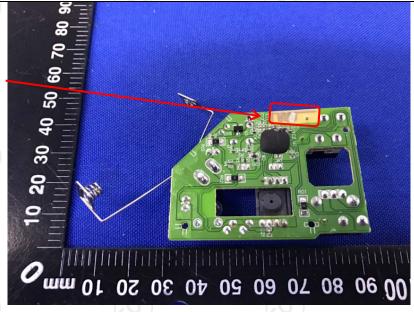
15.203 requirement:

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.

E.U.T Antenna:

The EUT antenna is PCB antenna which permanently attached, and the best case gain of the antenna is -2dBi.

Antenna





6.2.Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	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 (c	dBuV)			
	(MHz)	Quasi-peak	Average			
Limits:	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	Refere	nce Plane				
Test Setup:	AUX Equipment 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	n modulation	(0			
Test Procedure:	 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. 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 photographs). 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. 					
Test Result:	N/A; The EUT is supplied by 3V from AA battery, so Conducted Emission is not applicable.					



6.3. Radiated Emission Measurement

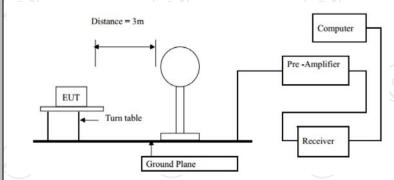
6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209/ Part 2 J Section 2.1053					
Test Method:	ANSI C63.10:2013					
Frequency Range:	9 kHz to 25 GHz					
Measurement Distance:	3 m	X				
Antenna Polarization:	Horizontal &	& Vertical				
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz-1GHz	Detector Quasi-peak Quasi-peak Quasi-peak	120kHz	VBW 1kHz 30kHz 300kHz	Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value	
	Above 1GHz	Peak Peak	1MHz 1MHz	3MHz 10Hz	Peak Value Average Value	
Limit(Field strength of the fundamental signal):	Frequency 2400MHz-2483.5MHz		Limit (dBuV/m @3m) 94.00 114.00		Remark Average Value Peak Value	
Limit(Spurious Emissions):	Frequency 0.009-0.490 0.490-1.705 1.705-30 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz Above 1GHz		Limit (dBuV/m @3m) 2400/F(KHz) 24000/F(KHz) 30 40.0 43.5 46.0 54.0 54.0		Remark Quasi-peak Value Average 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, whichever is the lesser attenuation.					
Test Procedure:	 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. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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 the measurement. 					



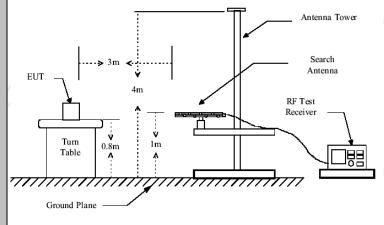
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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 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



30MHz to 1GHz

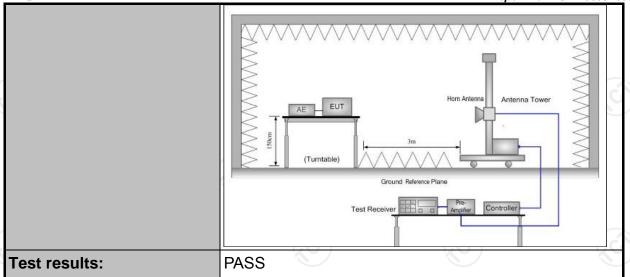
Test setup:



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

ESPI Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Aug. 11, 2017
Spectrum Analyzer	ROHDE&SCHW ARZ	FSEM	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	TCT	RE-low-01	N/A	Aug. 11, 2017
Coax cable	TCT	RE-high-02	N/A	Aug. 11, 2017
Coax cable	тст	RE-low-03	N/A	Aug. 11, 2017
Coax cable	TCT	RE-high-04	N/A	Aug. 11, 2017
Antenna Mast	CCS	CC-A-4M	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).



6.3.3. Test Data

Field Strength of Fundamental

Frequency (MHz)	Emission PK (dBuV/m)	Horizontal /Vertical	Limits PK (dBuV/m)	Margin (dB)
2408	90.18	Н	114	-23.82
2408	90.21	V	114	-23.79
2440	90.64	н	114	-23.36
2440	90.59	V	114	-23.41
2474	90.37	H	114	-23.63
2474	90.51	V	114	-23.49

Frequency (MHz)	Emission AV (dBuV/m)	Horizontal /Vertical	Limits AV (dBuV/m)	Margin (dB)
2408	88.52	Н	94	-5.48
2408	88.93	V	94	-5.07
2440	89.66	Н	94	-4.34
2440	89.68	V	94	-4.32
2474	89.47	Н	94	-4.53
2474	89.60	V	94	-4.40

Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµ\	//m)	Limit@3m (dBµV/m)
		(.c.)	
<u> </u>			
			-

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

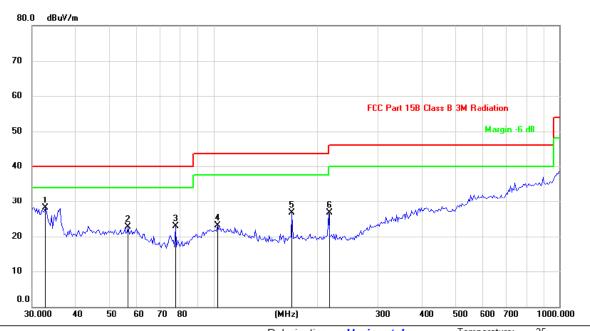
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Frequency Range (30MHz-1GHz)

Report No.: TCT170608E008

Horizontal:



Site	Polarization: Horizontal	remperature:	25
Limit: FCC Part 15B Class B 3M Radiation	Power: DC 1.5V	Humidity:	55 %

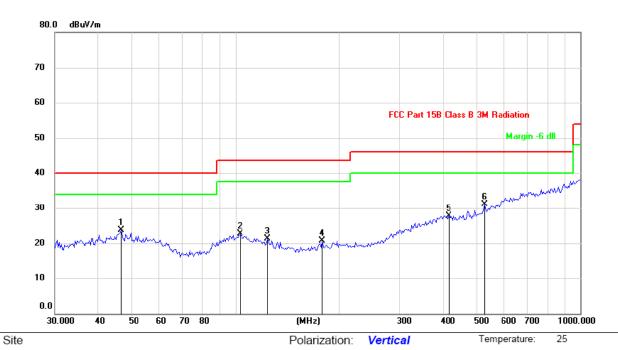
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	32.6394	35.92	-7.76	28.16	40.00	-11.84	peak			
2		56.8644	29.94	-7.22	22.72	40.00	-17.28	peak			
3		78.0143	33.97	-11.08	22.89	40.00	-17.11	peak			
4	,	102.6116	29.60	-6.57	23.03	43.50	-20.47	peak			
5	,	168.9970	36.63	-9.87	26.76	43.50	-16.74	peak			
6	- 2	216.1197	35.83	-9.07	26.76	46.00	-19.24	peak			







Vertical:



Lin	nit: F	CC Part 15B	Class B 3M F	Radiation	Pow	er: DC 1	.5V		Humidity:	55 %	
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		46.7077	30.47	-6.85	23.62	40.00	-16.38	peak			
2		103.3353	29.28	-6.62	22.66	43.50	-20.84	peak			
3		124.0501	30.52	-9.31	21.21	43.50	-22.29	peak			
4		178.7697	30.25	-9.62	20.63	43.50	-22.87	peak			
5		415.4485	29.31	-1.57	27.74	46.00	-18.26	peak			
6	*	527.5706	31.42	-0.37	31.05	46.00	-14.95	peak			

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



Report No.: TCT170608E008 Above 1GHz

	Low channel: 2408MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
2387.50	Н	52.64		-4.20	48.44		74.00	54.00	-5.56			
4816.00	Н	51.56		-3.94	47.62		74.00	54.00	-6.38			
7224.00	Н	49.70		0.52	50.22		74.00	54.00	-3.78			
2387.50	V	50.41	-(-6)	-4.20	46.21	C \}-	74.00	54.00	-7.79			
4816.00	V	48.43		3.94	52.37	<i>y</i> -	74.00	54.00	-1.63			
7224.00	V	46.27		0.52	46.79		74.00	54.00	-7.21			

			N	liddle chann	el: 2440M	Hz			
Eroguenov	Ant Dol	Peak	AV	Correction	Emissio	n Level	Dook limit	AV limit (dBµV/m)	Morgin
Frequency	H/V	reading	reading	Factor	Peak				Margin
(MHz)	□/ V	(dBµV)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(ασμν/ιιι)	(ασμν/ιιι)	(dB)
4880.00	Н	52.32		-3.98	48.34		74.00	54.00	-5.66
7320.00	(CH)	49.45	-170	0.57	50.02	(O)	74.00	54.00	-3.98
	<u></u>		-		-				
4880.00	V	51.66		-3.98	47.68		74.00	54.00	-6.32
7320.00	V	49.72		0.57	50.29		74.00	54.00	-3.71
								77	
	C		- -			.C		(

	High channel: 2474MHz												
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)				
2486.58	Н	51.47		-2.38	49.09		74.00	54.00	-4.91				
4948.00	Н	53.32		-3.98	49.34		74.00	54.00	-4.66				
7422.00	Н	48.20		0.57	48.77		74.00	54.00	-5.23				
	4					(-		7					
	(O		KC		Į.	(0)		(, (,)					
2483.51	V	51.12		-2.38	48.74	<u></u>	74.00	54.00	-5.26				
4948.00	V	51.75		-3.98	47.77		74.00	54.00	-6.23				
7422.00	V	50.62		0.57	51.19		74.00	54.00	-2.81				
				((3				

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.

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Band Edge Requirement

Low chann	Low channel: 2408 MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level Peak AV (dBµV/m) (dBµV/m)		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
2400	Н	49.16		-4.2	44.96		74.00		-29.04			
2400	Н		42.56	-4.2		38.36		54.00	-15.64			
		I			-		I	(
								(.6)				
2400	V	48.65	'	-4.2	44.45	\\\	74.00		-29.55			
2400	V		39.74	-4.2		35.54		54.00	-18.46			

High chanr	nel: 2474N	1Hz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2483.5	(H)	50.87	(-4.2	46.67	(₂ G-')	74.00	_X C	-27.33
2483.5	H		41.65	-4.2		37.45		54.00	-16.57
		-	-						
2483.5	V	49.41	\	-4.20	45.21		74.00		-28.79
2483.5	V	1	40.86	-4.2	7 -	36.66	(40)	54.00	-17.34

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.





6.4.20dB Occupied Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)/ Part 2 J Section 2.1049		
Test Method:	ANSI C63.10: 2013		
Limit:	N/A		
	 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW≥1% of the 20 dB bandwidth; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. 4. Measure and record the results in the test report. 		
Test setup:	Spectrum Analyzer EUT		
Test Mode:	Transmitting mode with modulation		
Test results:	PASS		

6.4.2. Test Instruments

RF Test Room						
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).

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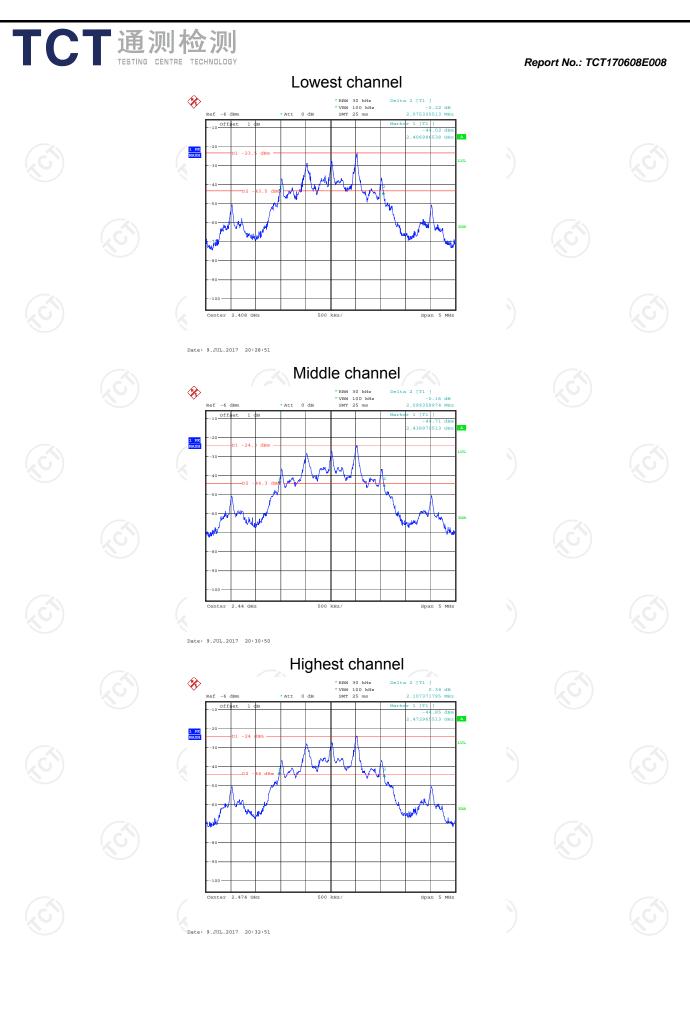


6.4.3. Test data

Test Channel	20dB Occupy Bandwidth (kHz)	Limit	Conclusion
Lowest	2075.32	(c)	PASS
Middle	2099.36		PASS
Highest	2107.37	<u></u>	PASS

Test plots as follows:

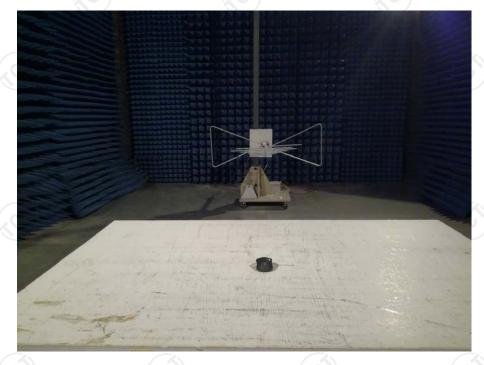


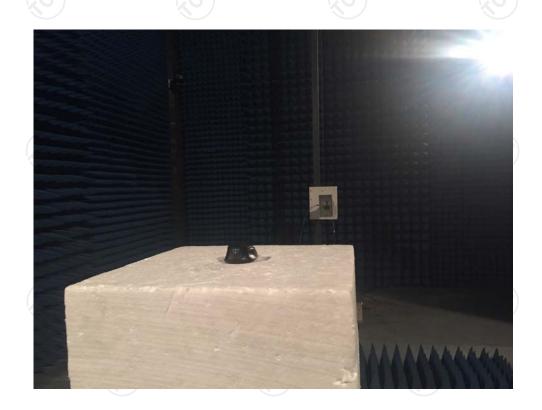




Appendix A: Photographs of Test Setup Product: 2.4G Wireless Optical Mouse

Product: 2.4G Wireless Optical Mouse Model: D-09 Radiated Emission







Appendix B: Photographs of EUT Product: 2.4G Wireless Optical Mouse

Model: D-09 External Photos





TCT通测检测 testing centre technology

Report No.: TCT170608E008









Product: 2.4G Wireless Optical Mouse Model: D-09 Internal Photos



