TCT 通测检测 TESTING CENTRE TECHNOLOGY

ETSI EN 300 440 V2.1.1 (2017-03)

Report

Product: Wireless Optical Mouse

Model No.: X-08

Additional Model No.: DS-2472, DS-2712, DS-2567, DS-2572, M601WL, M601WL-BA, DS-2772

Trade Mark: N/A

Report No.: TCT180621E901

Issued Date: Jun. 22, 2018

Issued for:

Eastern Times Technology Co., Ltd.

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

Issued By:

Shenzhen TCT Testing Technology Co., Ltd.

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This test report was based on TCT170608E014; only change additional model No.

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

1. Test Certification

Product:	Wireless Optical Mouse
Model No.:	X-08
Additional Model No.:	DS-2472, DS-2712, DS-2567, DS-2572, M601WL, M601WL-BA, DS-2772
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. 09, 2017 – Jun. 20, 2017
Applicable Standards:	ETSI EN 300 440 V2.1.1 (2017-03)

The above equipment has been tested by Shenzhen TCT Testing Technology Co., Ltd., 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.

This report is covering the essential requirement of directive 2014/53/EU.

Tested By:	Brews Xu	***Date:***	***Jun. 20, 2017***
	Brews Xu		
Reviewed By:	Beryl Zhao	***Date:***	***Jun. 22, 2018***
	Beryl Zhao		
Approved By:	Tomsin	***Date:***	***Jun. 22, 2018***
	Tomsin		

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2. Test Result Summary

Radio Spectrum Matter (RSM) Part of Tx(Wireless Keyboard)				
Test Item	**Test Requirement**	**Test Method**	**Limit/Severity**	**Result**
Equivalent isotropically radiated power	Clause 4.2.2	Clause 4.2.2.3	Clause 4.2.2.4	PASS
Permitted Range of Operating Frequencies	Clause 4.2.3	Clause 4.2.3.3	Clause 4.2.3.5	PASS
Unwanted emissions in the spurious domain	Clause 4.2.4	Clause 4.2.4.3	Clause 4.2.4.4	PASS
Duty cycle	Clause 4.2.5	Clause 4.2.5.3	Clause 4.2.5.4	N/A
Additional requirements for FHSS equipment	Clause 4.2.6	Clause 4.2.6.3	Clause 4.2.6.4	N/A

Radio Spectrum Matter (RSM) Part of Rx(USB dongle)				
Test Item	**Test Requirement**	**Test Method**	**Limit/Severity**	**Result**
Adjacent channel selectivity	Clause 4.3.3	Clause 4.3.3.3	Clause 4.3.3.4	N/A
Blocking or desensitization	Clause 4.3.4	Clause 4.3.4.3	Clause 4.3.4.4	N/A
Spurious Radiations	Clause 4.3.5	Clause 4.3.5.3	Clause 4.3.5.4	PASS

Note:

1 Pass: Test item meets the requirement.

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

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

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3. EUT Description

Product Name:	Wireless Optical Mouse
Model :	X-08
Additional Model:	DS-2472, DS-2712, DS-2567, DS-2572, M601WL, M601WL-BA, DS-2772
Trade Mark:	**N/A**
Hardware Version	V1.2
Software Version	V1.0
Receiver Category:	3
Operation Frequency:	2408MHz~2474MHz
Modulation Technology:	FSK
Antenna Type:	PCB antenna
Antenna Gain:	Mouse: -2dBi Dongle: 0dBi
Power Supply:	DC 1.5V(Single AA Battery) for Mouse DC 5V from PC for USB dongle
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		
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		

4. Genera Information

4.1. Test environment and mode

Item	Normal condition	Extreme condition			
		HVHT	LVHT	HVLT	LVLT
Temperature	+25ºC	+55ºC	+55ºC	0ºC	0ºC
Voltage	Mouse DC 1.5V	Mouse DC 1.7V	Mouse DC 1.7V	Mouse DC 1.3V	Mouse DC 1.3V
	Dongle AC230V	Dongle AC253V	Dongle AC207V	Dongle AC253V	Dongle AC207V
Humidity	20%-95%				
Atmospheric Pressure:	1008 mbar				
Test Mode:					
Transmitting mode:	Keep the EUT in transmitting mode with modulation.				
Receiving mode:	Keep the EUT in receiving mode.				

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
/	/	/	/	/

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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4.3. Test Instruments List

Radiated Emission				
Name	**Model No.**	**Manufacturer**	**Date of Cal.**	**Due Date**
EMI Test Receiver	ESVD	R&S	Sep. 28, 2017	Sep. 27, 2018
Spectrum Analyzer	FSEM	R&S	Sep. 28, 2017	Sep. 27, 2018
Amplifier	8447D	HP	Sep. 28, 2017	Sep. 27, 2018
Amplifier	EM30265	EM Electronics Corporation CO.,LTD	Sep. 28, 2017	Sep. 27, 2018
Broadband Antenna	VULB9163	Schwarzbeck	Sep. 28, 2017	Sep. 27, 2018
Horn Antenna	BBHA 9120D	Schwarzbeck	Sep. 28, 2017	Sep. 27, 2018
Ultra Broadband ANT	HL562	R&S	Sep. 28, 2017	Sep. 27, 2018
Universal Radio Communication Tester	CMU200	R&S	Sep. 28, 2017	Sep. 27, 2018
Coaxial Cable	N/A	TCT	Sep. 28, 2017	Sep. 27, 2018
Coaxial Cable	N/A	TCT	Sep. 28, 2017	Sep. 27, 2018
Coaxial Cable	N/A	TCT	Sep. 28, 2017	Sep. 27, 2018
Coaxial Cable	N/A	TCT	Sep. 28, 2017	Sep. 27, 2018
Loop antenna	ZN30900A	ZHINAN	Sep. 28, 2017	Sep. 27, 2018
Spectrum Analyzer	N9020A	Agilent	Sep. 28, 2017	Sep. 27, 2018
Signal Generator	E4421B	Agilent	Sep. 28, 2017	Sep. 27, 2018
Signal Generator	N5182A	Agilent	Sep. 28, 2017	Sep. 27, 2018

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. 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 TCT Testing Technology Co., Ltd.

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

Tel: +86-755-27673339

5.3. Measurement Uncertainty

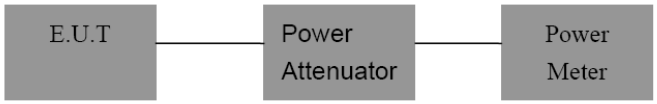
The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

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. Transmit Requirement

6.1. Equivalent Isotropically Radiated Power

6.1.1. Test Specification

Test Requirement:	EN 300 440 clause 4.2.2
Test Method:	EN 300 440 clause 4.2.2.3
Limit:	10dBm
Test Setup:	
Test Procedure:	1. According clause 4.2.3.0, The -6 dB bandwidth should be tested first; 2. Base on step 1, the clause 4.2.3.1 was selected, the test setup as above: 3. The output of the transmitter shall be connected to the power meter. 4. The equivalent isotropically radiated power is then calculated from the measured value, the known antenna gain, relative to an isotropic antenna, and if applicable, any losses due to cables and connectors in the measurement system. Remark: The -6 dB bandwidth of EUT is less than 1MHz.
Test Instrument:	Refer to Item 4.3 for details
Test Mode:	Transmitting with modulation mode
Test Result:	PASS

6.1.2. Test Data

Mouse

Test conditions		Channel	Output power (dBm)	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Result
Volt. (DC)	Temp.						
1.5	25℃	2408MHz	-4.34	-2	-6.34	10	PASS
		2440MHz	-6.26	-2	-8.26		
		2474MHz	-7.50	-2	-9.50		
1.7	55℃	2408MHz	-4.45	-2	-6.45		
		2440MHz	-6.31	-2	-8.31		
		2474MHz	-7.66	-2	-9.66		
1.7	0℃	2408MHz	-4.37	-2	-6.37		
		2440MHz	-6.34	-2	-8.34		
		2474MHz	-7.56	-2	-9.56		
1.3	55℃	2408MHz	-4.42	-2	-6.42		
		2440MHz	-6.43	-2	-8.43		
		2474MHz	-7.72	-2	-9.72		
1.3	0℃	2408MHz	-4.53	-2	-6.53		
		2440MHz	-6.54	-2	-8.54		
		2474MHz	-7.73	-2	-9.73		
Remark: Volt= Voltage, Temp= Temperature							

Dongle

Test conditions		Channel	Output power (dBm)	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Result
Volt. (DC)	Temp.						
1.5	25℃	2408MHz	-5.47	0	-5.47	10	PASS
		2440MHz	-6.81	0	-6.81		
		2474MHz	-8.07	0	-8.07		
1.7	55℃	2408MHz	-5.52	0	-5.52		
		2440MHz	-6.87	0	-6.87		
		2474MHz	-8.14	0	-8.14		
1.7	0℃	2408MHz	-5.57	0	-5.57		
		2440MHz	-6.86	0	-6.86		
		2474MHz	-8.12	0	-8.12		
1.3	55℃	2408MHz	-5.62	0	-5.62		
		2440MHz	-6.94	0	-6.94		
		2474MHz	-8.36	0	-8.36		
1.3	0℃	2408MHz	-5.64	0	-5.64		
		2440MHz	-6.96	0	-6.96		
		2474MHz	-8.31	0	-8.31		
Remark: Volt= Voltage, Temp= Temperature							

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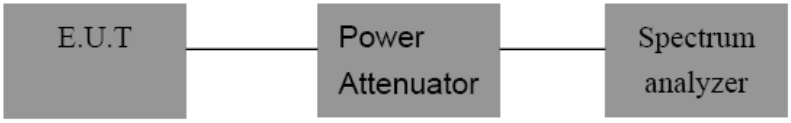
6.2. Permitted Range of Operating Frequencies

6.2.1. Test Specification

Test Requirement:	EN 300 440 clause 4.2.3.
Test Method:	EN 300 440 clause 4.2.3.3
Limit:	Within the band 2.4GHz to 2.4835GHz
Test Setup:	
Test Procedure:	1. Put the spectrum analyser in video averaging mode with a minimum of 50 sweeps selected; 2. Select the lowest operating frequency of the equipment under test and activate the transmitter with modulation applied. The RF emission of the equipment shall be displayed on the spectrum analyser; 3. Using the marker of the spectrum analyser, find the lowest frequency below the operating frequency at which the spectral power density drops below the level given in clause 4.2.3. This frequency shall be recorded in the test report; 4. Select the highest operating frequency of the equipment under test and find the highest frequency at which the spectral power density drops below the value given in clause 4.2.3. This frequency shall be recorded in the test report; 5. The difference between the frequencies measured in steps 3) and 4) is the operating frequency range. It shall be recorded in the test report. This measurement shall be repeated for each frequency range declared by the manufacturer.
Test Instrument:	Refer to Item 4.3 for details
Test Mode:	Transmitting mode
Test Result:	PASS

6.3. Test Data

Keyboard					
Test conditions		FL(MHz)	FH (MHz)	Limit	Result
Volt.(DC)	Temp.				
1.5	25℃	2406.69	2475.32	fL≧2.4GHz and fH≦2.4835GHz	PASS
1.7	55℃	2406.61	2475.26		
1.7	0℃	2406.56	2475.20		
1.3	55℃	2406.74	2475.39		
1.3	0℃	2406.58	2475.36		
Remark: Volt= Voltage, Temp= Temperature					
Dongle					
Test conditions		FL(MHz)	FH (MHz)	Limit	Result
Volt.(AC)	Temp.				
230	25℃	2407.67	2473.30	fL≧2.4GHz and fH≦2.4835GHz	PASS
253	55℃	2407.62	2473.25		
253	0℃	2407.54	2473.27		
207	55℃	2407.72	2473.37		
207	0℃	2407.56	2473.33		
Remark: Volt= Voltage, Temp= Temperature					

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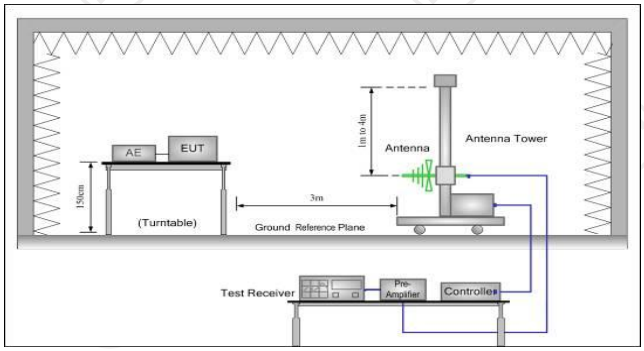
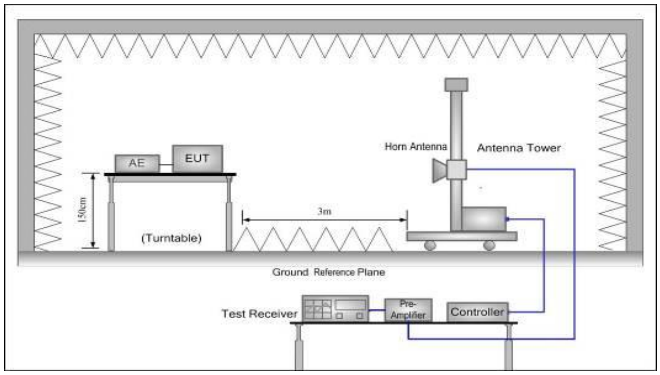
6.4. Unwanted emissions in the spurious domain

6.4.1. Test Specification

<table>
<tr><td>Test Requirement:</td><td>EN 300 440 clause 4.2.4</td></tr>
<tr><td>Test Method:</td><td>EN 300 440 clause 4.2.4.4</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><td>Frequency</td><td>Limit (dBm)</td></tr>
<tr><td>47 MHz to 74 MHz
87.5 MHz to 108 MHz
174 MHz to 230 MHz
470 MHz to 862 MHz</td><td>-54</td></tr>
<tr><td>Other frequencies ≤ 1 000 MHz</td><td>-36</td></tr>
<tr><td>Frequencies > 1 000 MHz</td><td>-30</td></tr>
</table>
</td></tr>
<tr><td>Test Setup:</td><td>Below 1GHz
 

Above 1GHz
 
</td></tr>
<tr><td>Test Procedure:</td><td>Substitution method was performed to determine the actual ERP emission levels of the EUT.
The following test procedure as below:
Below 1GHz test procedure:
1. On the test site as test setup graph above, the EUT shall be placed at the 1.5m support on the turntable and in the position closest to normal use as declared by the provider.
2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter. The output of the test antenna shall be connected to the measuring receiver.
3. The transmitter shall be switched on, if possible, without</td></tr>
</table>

	modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test. 4. The test antenna shall be raised and lowered from 1m to 4m until a maximum signal level is detected by the measuring receiver. Then the turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver. 5. Repeat step 4 for test frequency with the test antenna polarized horizontally. 6. Remove the transmitter and replace it with a substitution antenna (the antenna should be half-wavelength for each frequency involved). The centre of the substitution antenna should be approximately at the same location as the centre of the transmitter. At the lower frequencies, where the substitution antenna is very long, this will be impossible to achieve when the antenna is polarized vertically. In such case the lower end of the antenna should be 0.3 m above the ground. 7. Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a non radiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output. 8. Repeat step 7 with both antennas horizontally polarized for each test frequency. 9. Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula: ERP(dBm) = Pg(dBm) – cable loss (dB) + antenna gain (dBd) where: Pg is the generator output power into the substitution antenna. **Above 1GHz test procedure:** Different between above is the test site, change from Semi-Anechoic Chamber to fully Anechoic Chamber, and the test antenna do not need to raise from 1 to 4m, just test in 1.5m height.
Test Instruments:	Refer to Item 4.3 for details
Test Mode:	Transmitting mode
Test Result:	PASS

6.4.2. Test Data

Operation mode:	Tx mode		Channel	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
181.25	Vertical	-71.56	-54.00	PASS
4816.00	V	-53.31	-30.00	
7224.00	V	-52.64	-30.00	
181.25	Horizontal	-73.65	-54.00	
4816.00	H	-50.31	-30.00	
7224.00	H	-48.53	-30.00	

Operation mode:	Tx mode		Channel	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
943.75	Vertical	-70.83	-36.00	PASS
4816.00	V	-51.37	-30.00	
7224.00	V	-50.59	-30.00	
181.25	Horizontal	-72.65	-36.00	
4816.00	H	-52.96	-30.00	
7224.00	H	-51.64	-30.00	

Note: *Test Frequency range is up to 25GHz, and the test data below 25MHz and above 12750MHz is too lower than the limit, so not show in this report.*

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7. Receiver Requirement

Receiver category

Category	Relevant Receiver Clauses	Risk Assessment of Receiver Performance
1	4.3.3, 4.3.4 and 4.3.5	Highly reliable SRD communication media; e.g. serving human life inherent systems (may result in a physical risk to a person).
2	4.3.4 and 4.3.5	Medium reliable SRD communication media e.g. causing Inconvenience to persons, which cannot simply be overcome by other means.
3	4.3.5	Standard reliable SRD communication media e.g. Inconvenience to persons, which can simply be overcome by other means (e.g. manual).
The EUT (Rx part) belong to Class 3 with no LBT function.		

7.1. Adjacent channel selectivity

7.1.1. Test Specification

Test result:	Since the test applied to class 1 receivers only, so Not applicable.

7.2. Blocking or Desensitization

7.2.1. Test Specification

Test result:	Since the test applied to class 1 and class 2 receivers only, so Not applicable.

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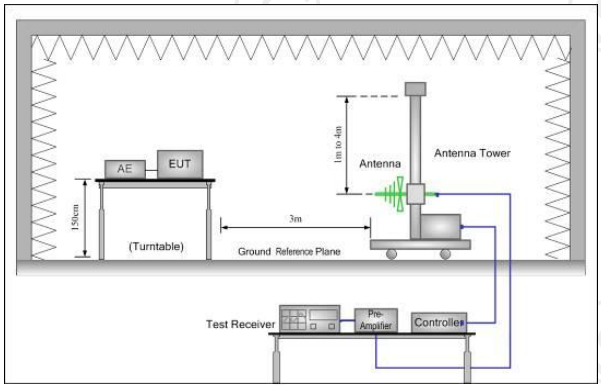
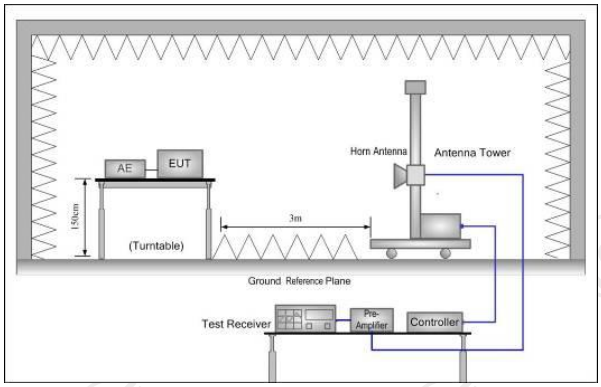
7.3. Receiver Spurious Radiation

7.3.1. Test Specification

Test Requirement:	EN 300 440 clause 4.3.5
Test Method:	EN 300 440 clause 8.3.4
Limit:	Frequency / Limit (dBm) Frequencies ≤1 000 MHz / -57 Frequencies > 1 000 MHz / -47
Test Setup:	Below 1GHz  Above 1GHz 
Test Procedure:	Substitution method was performed to determine the actual ERP emission levels of the EUT. The following test procedure as below: **Below 1GHz test procedure:** 1. On the test site as test setup graph above, the EUT shall be placed at the 1.5m support on the turntable and in the position closest to normal use as declared by the provider. 2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter. The output of the test antenna shall be connected to the measuring receiver. 3. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test. 4. The test antenna shall be raised and lowered from 1m to

	4m until a maximum signal level is detected by the measuring receiver. Then the turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver. 5. Repeat step 4 for test frequency with the test antenna polarized horizontally. 6. Remove the transmitter and replace it with a substitution antenna (the antenna should be half-wavelength for each frequency involved). The centre of the substitution antenna should be approximately at the same location as the centre of the transmitter. At the lower frequencies, where the substitution antenna is very long, this will be impossible to achieve when the antenna is polarized vertically. In such case the lower end of the antenna should be 0.3 m above the ground. 7. Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a non radiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output. 8. Repeat step 7 with both antennas horizontally polarized for each test frequency. 9. Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula: ERP(dBm) = Pg(dBm) – cable loss (dB) + antenna gain (dBd) where: Pg is the generator output power into the substitution antenna. Above 1GHz test procedure: Different between above is the test site, change from Semi-Anechoic Chamber to fully Anechoic Chamber, and the test antenna do not need to raise from 1 to 4m, just test in 1.5m height.
Test Instrument:	Refer to Item 4.3 for details
Test Mode:	Receiver mode
Test Result:	PASS

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7.3.2. Test Data

Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	polarization	Level(dBm)		
183.74	Vertical	-70.31	2nW/ -57dBm below 1GHz, 20nW/ -47dBm above 1GHz.	PASS
4816.00	V	-58.34		
7224.00	V	-61.13		
-	V	-		
183.74	Horizontal	-72.49		
4816.00	H	-62.72		
7224.00	H	-61.20		
-	H	-		

Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	polarization	Level(dBm)		
97.67	Vertical	-68.16	2nW/ -57dBm below 1GHz, 20nW/ -47dBm above 1GHz.	PASS
4928.00	V	-59.49		
7422.00	V	-58.71		
-	V	-		
97.67	Horizontal	-70.63		
4928.00	H	-60.55		
7422.00	H	-59.78		
-	H	-		

Note: *Test Frequency range is up to 25GHz, and the test data below 25MHz and above 12750MHz is too lower than the limit, so not show in this report.*

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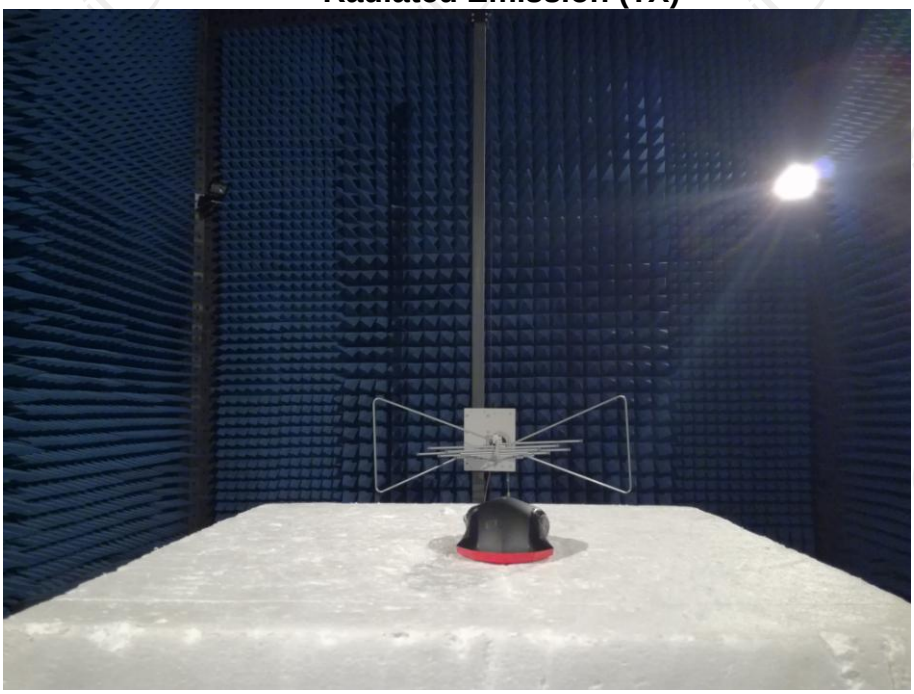
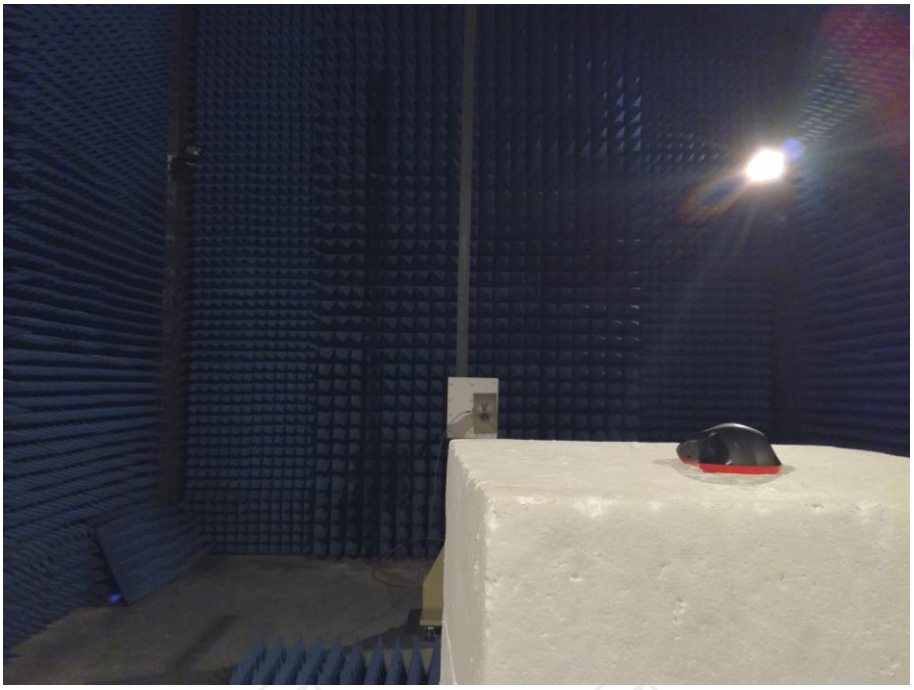
8. Photographs of Test Configuration

Radiated Emission (TX)





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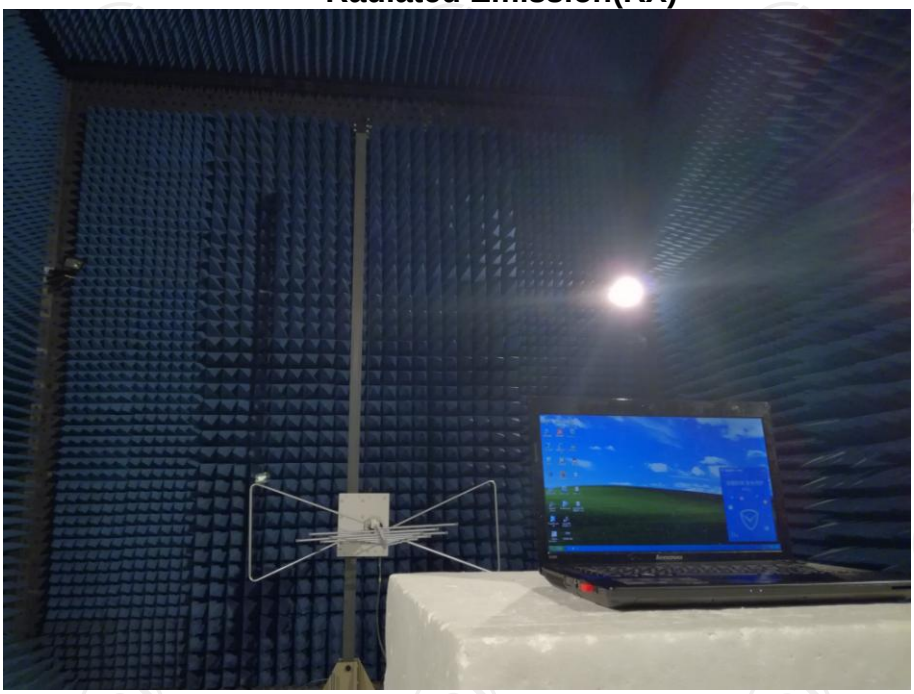
Radiated Emission(RX)



9. Photographs of EUT

Refer to the test report No. TCT180621E902

*****END OF REPORT*****

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