



Report No.: TW2104068E File reference No.: 2021-04-15

Applicant: Eastern Times Technology Co.,Ltd

Product: Porsche Wireless Mouse

Model No.: WAP0508110M917, WAP0508100PCPM, WAP0508110PGLF

Brand Name: PORSCHE

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.4&FCC Part 15 Subpart C,

Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Temy Tong

Terry Tang

Manager

Dated: April 15, 2021

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

## SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

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## **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

#### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

## FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

## Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

## A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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# Test Report Conclusion Content

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#### 1.0 General Details

#### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

#### 1.2 Applicant Details

Applicant: Eastern Times Technology Co.,Ltd

Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City,

Guangdong, China.

Telephone: --Fax: --

## 1.3 Description of EUT

Product: Porsche Wireless Mouse

Manufacturer: Eastern Times Technology Co.,Ltd

Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town,

Dongguan City, Guangdong, China.

Brand Name: PORSCHE

Model Number: WAP0508110M917

Additional Model Name WAP0508100PCPM, WAP0508110PGLF

Rating: DC3.0V, 2pcs AA batteries

Modulation Type: GFSK

Operation Frequency: 2408-2474MHz

Channel Separate: 2MHz
Channel Number: 34
Hardware Version: V01
Software Version: V01

Antenna Designation PCB antenna with gain -0.61dBi Max (Declared by the applicant)

#### 1.4 Submitted Sample: 1 Sample

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1.5 Test Duration

2021-04-08 to 2021-04-15

1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty = 3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Print Name: Andy Xing

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2.0 Test Equipment						
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date	
ESPI Test Receiver	R&S	ESPI 3	100379	2020-06-23	2021-06-22	
LISN	R&S	EZH3-Z5	100294	2020-06-23	2021-06-22	
LISN	R&S	EZH3-Z5	100253	2020-06-23	2021-06-22	
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2020-06-23	2021-06-22	
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24	
Spectrum	R&S	FSIQ26	100292	2020-06-23	2021-06-22	
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2020-06-23	2021-06-22	
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08	
Power meter Anritsu Power sensor Anritsu		ML2487A	6K00003613	2020-06-23	2021-06-22	
		MA2491A	32263	2020-06-23	2021-06-22	
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03	
9*6*6 Anechoic EMI Test Receiver RS			N/A	2020-07-06	2021-07-05 2021-06-22 2021-06-22 2021-06-22	
		ESVB	826156/011	2020-06-23		
EMI Test Receiver	Test Receiver RS Spectrum HP/Agilent		860904/006	2020-06-23		
Spectrum			US37451154	2020-06-23		
Spectrum	HP/Agilent	E4407B	MY50441392	2020-06-23	2021-06-22	
Spectrum	RS	FSP	1164.4391.38	2021-01-16	2022-01-15	
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA		2020-06-23	2021-06-22	
RF Cable	Zhengdi	7m		2020-06-23	2021-06-22	
RF Switch	EM	EMSW18	060391	2020-06-23	2021-06-22	
Pre-Amplifier	Schwarebeck	BBV9743	#218	2020-06-23	2021-06-22	
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2020-06-23	2021-06-22	
LISN	SCHAFFNER	NNB42	00012	2021-01-06	2022-01-05	

#### 2.2 Automation Test Software

#### For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

#### For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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#### 3.0 Technical Details

## 3.1 Summary of test results

The EUT has	been tested	l according to	the following	specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	N/A	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209 and RSS-210	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	PASS	Complies

#### 3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4:2014 and ANSI C63.10:2013

#### 4.0 EUT Modification

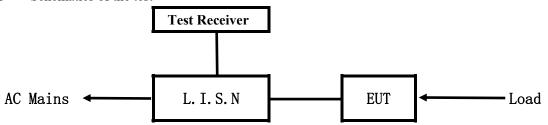
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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#### 5. Power Line Conducted Emission Test

#### 5.1 Schematics of the test

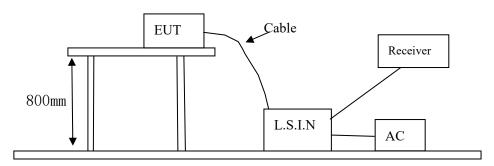


EUT: Equipment Under Test

#### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2014.

## Block diagram of Test setup



## 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

One channels are provided to the EUT

#### A. EUT

Device	Manufacturer	Model	FCC ID
Dorgaha Winalaga		WAP0508110M917,	
Porsche Wireless Mouse	Eastern Times Technology Co.,Ltd	WAP0508100PCPM,	TUVDS-2902
		WAP0508110PGLF	

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Device	Manufacturer	Model	FCC ID/DOC
N/A			

## C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A;
			Output: DC5V, 2A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2014

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Enaguanay (MHz)	Class B Limits (dB µ V)					
Frequency(MHz)	Quasi-peak Level	Average Level				
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*				
$0.50 \sim 5.00$	56.0	46.0				
$5.00 \sim 30. 0$	60.0	50.0				

Notes: 1. \*Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

#### 5.6 Test Results:

N/A

Note: EUT powered by AA battery, this test item not applicable.

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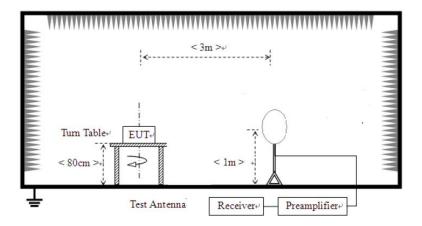


#### **6** Radiated Emission Test

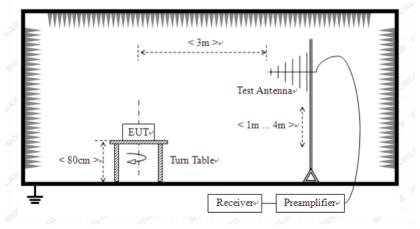
- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

#### **Block diagram of Test setup**

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz



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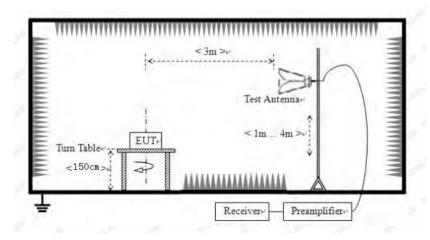
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For radiated emissions above 1GHz



- 6.2 Configuration of The EUT

  Same as section 5.3 of this report
- 6.3 EUT Operating Condition
  Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

## A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency	Field Stre	ength of Fundame	ntal (3m)	Field Strength of Harmonics (3m)		
(MHz)	mV/m	n dBuV/m			dBu	V/m
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

- 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

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#### B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
8-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 5. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
- 6. New Battery was used during tests.

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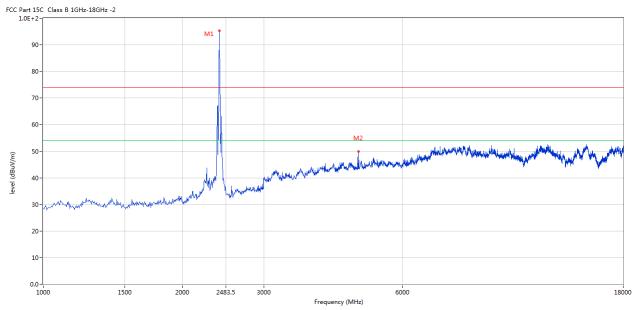


## 6.5 Test result

## A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2408MHz

#### Horizontal



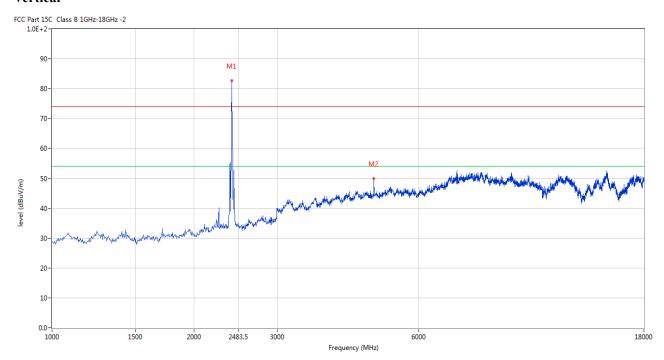
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2406.750	95.34	-3.57	114.0	-18.66	Peak	208.00	100	Horizontal	Pass
1*	2406.750	86.51	-3.57	94.0	-27.49	AV	208.00	100	Horizontal	Pass
2	4816.500	50.90	3.14	74.0	-23.10	Peak	355.00	100	Horizontal	Pass

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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2406.750	82.59	-3.57	114.0	-31.41	Peak	200.00	100	Vertical	Pass
2	4816.500	50.97	3.14	74.0	-23.03	Peak	21.00	100	Vertical	Pass

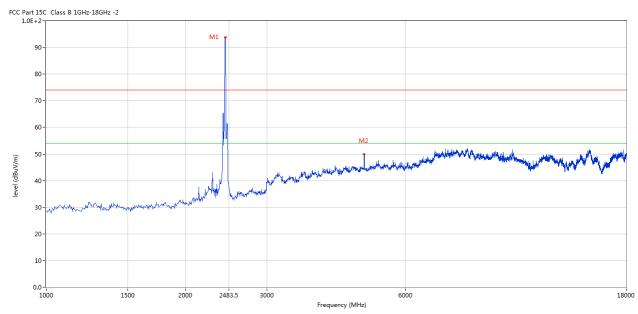
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Please refer to the following test plots for details: Middle Channel-2440MHz

#### Horizontal



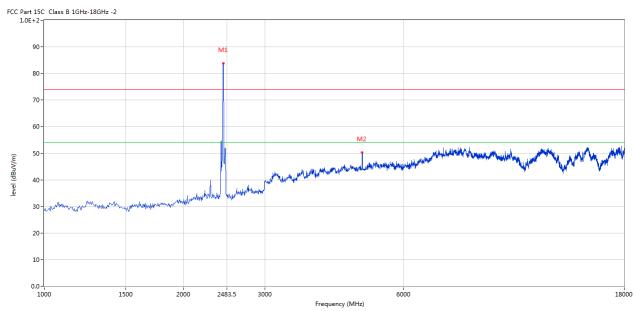
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2440.750	93.80	-3.57	114.0	-20.20	Peak	224.00	100	Horizontal	Pass
1*	2440.750	82.68	-3.57	94.0	-31.32	AV	224.00	100	Horizontal	Pass
2	4876.000	50.87	3.19	74.0	-23.13	Peak	360.00	100	Horizontal	Pass

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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2440.750	83.88	-3.57	114.0	-30.12	Peak	177.00	100	Vertical	Pass
2	4876.000	50.36	3.19	74.0	-23.64	Peak	19.00	100	Vertical	Pass

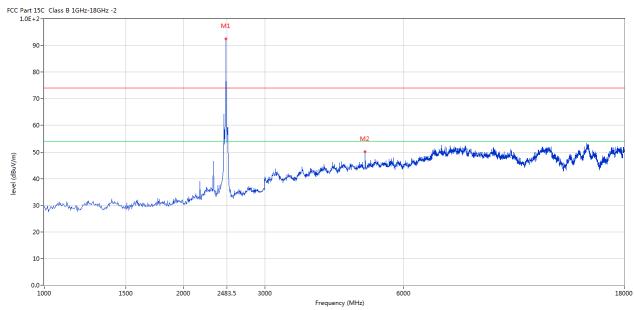
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Please refer to the following test plots for details: High Channel-2474MHz

#### Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2474.750	92.42	-3.57	114.0	-21.58	Peak	200.00	100	Horizontal	Pass
2	4948.250	51.05	3.33	74.0	-22.95	Peak	0.00	100	Horizontal	Pass

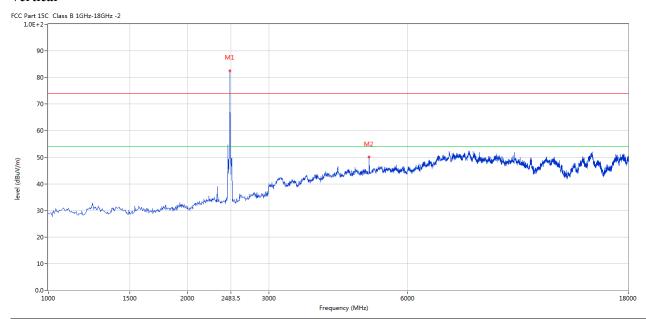
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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2474.500	82.54	-3.57	114.0	-31.46	Peak	169.00	100	Vertical	Pass
2	4948.250	50.09	3.33	74.0	-23.91	Peak	24.00	100	Vertical	Pass

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

- (3)Margin=Emission-Limits
- (4)According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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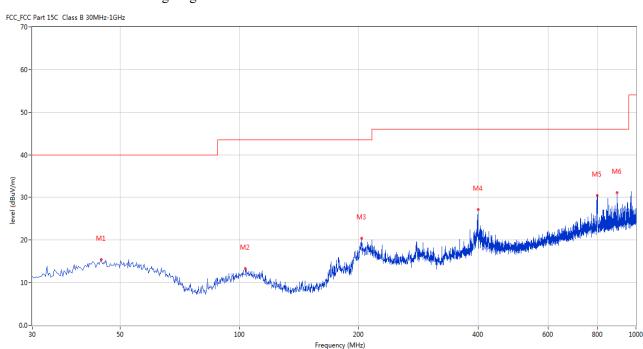


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	44.789	15.38	-11.42	40.0	-24.62	Peak	251.00	100	Horizontal	Pass
2	103.459	13.29	-13.36	43.5	-30.21	Peak	60.00	100	Horizontal	Pass
3	203.344	20.40	-13.46	43.5	-23.10	Peak	74.00	100	Horizontal	Pass
4	399.720	27.15	-8.57	46.0	-18.85	Peak	168.00	100	Horizontal	Pass
5	799.260	30.43	-2.99	46.0	-15.57	Peak	57.00	100	Horizontal	Pass
6	895.509	31.07	-1.79	46.0	-14.93	Peak	63.00	100	Horizontal	Pass

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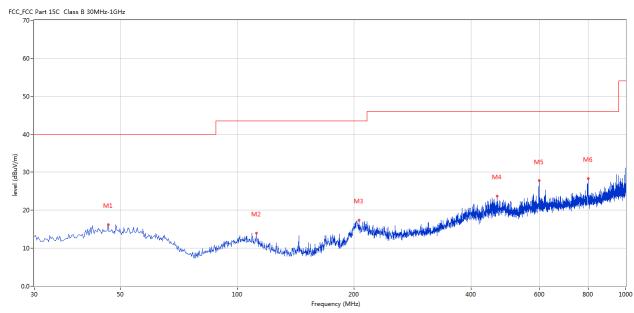


## Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	46.486	16.21	-11.43	40.0	-23.79	Peak	150.00	100	Vertical	Pass
2	111.945	13.99	-13.81	43.5	-29.51	Peak	358.00	100	Vertical	Pass
3	205.526	17.46	-13.62	43.5	-26.04	Peak	358.00	100	Vertical	Pass
4	466.876	23.71	-7.75	46.0	-22.29	Peak	355.00	100	Vertical	Pass
5	598.763	27.76	-5.10	46.0	-18.24	Peak	287.00	100	Vertical	Pass
6	799.988	28.37	-2.96	46.0	-17.63	Peak	335.00	100	Vertical	Pass

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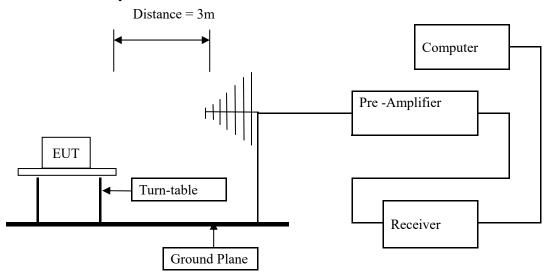


#### 7. Band Edge

#### 7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

#### 7. 2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

#### 7.3 Configuration of The EUT

Same as section 5.3 of this report

## 7.4 EUT Operating Condition

Same as section 5.4 of this report.

## 7.5 Band Edge Limit

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.

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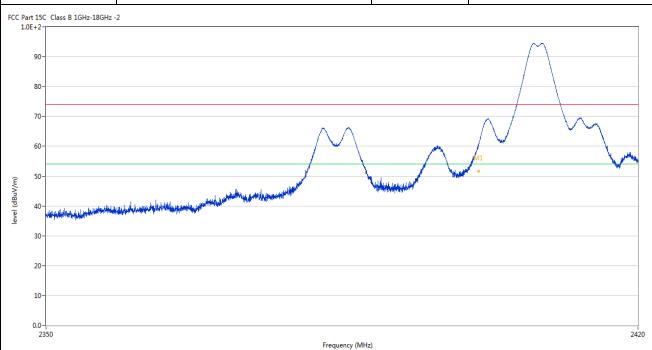
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#### 7.6 Test Result

Product:	Porsche Wireless Mouse	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2400.925	60.86	-3.57	74.0	-13.14	Peak	245.00	100	Horizontal	Pass
1**	2400.925	51.54	-3.57	54.0	-2.46	AV	245.00	100	Horizontal	Pass
2	2389.340	49.56	-3.53	74.0	-24.44	Peak	237.00	100	Horizontal	Pass
3	2382.480	66.11	-3.50	74.0	-7.89	Peak	235.00	100	Horizontal	Pass
3*	2382.480	48.67	-3.50	54.0	-5.33	AV	235.00	100	Horizontal	Pass
4	2385.542	66.33	-3.51	74.0	-7.67	Peak	235.00	100	Horizontal	Pass
4*	2385.542	48.72	-3.51	54.0	-5.28	AV	235.00	100	Horizontal	Pass
5	2396.095	60.34	-3.55	74.0	-13.66	Peak	245.00	100	Horizontal	Pass
5*	2396.095	43.19	-3.55	54.0	-10.81	AV	245.00	100	Horizontal	Pass

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2382.550

37.65

-3.50

54.0

-16.35

ΑV

169.00

100

Vertical

Pass



]	Product:		Porsche	Wireless Mo	ouse	Detec	tor		Vertical	
	Mode		Keepin	g Transmitti	ng	Test Vol	Itage		DC3.0V	
Te	mperature		24	4 deg. C,		Humid	lity		56% RH	
Τe	est Result:			Pass						
C Part 1	5C Class B 1GHz-18GHz 2-r	: -2								
7 6 (m//ngp) laval 3		त्वकृतिहास को जीवन स्थापन का क्षेत्रीयों होते हुन	Water and the section of	olomik bilaya ya Parini da da ani ya kari aki bilaya ya Parini da da ani ya kari aki bilaya da ani da ani da a		Maryingunaharan				
0.	0- 2350				Frequency (MF	iz)				2420
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdic
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2400.627	47.02	-3.57	74.0	-26.98	Peak	164.00	100	Vertical	Pass
2	2391.615	39.36	-3.54	74.0	-34.64	Peak	161.00	100	Vertical	Pass
3	2385.473	55.08	-3.51	74.0	-18.92	Peak	174.00	100	Vertical	Pass
3*	2385.473	39.12	-3.51	54.0	-14.88	AV	174.00	100	Vertical	Pass
4	2382.550	54.10	-3.50	74.0	-19.90	Peak	169.00	100	Vertical	Pass
										1 _

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P	roduct:		Porsche W	ireless Mou	ise	Polar	ity		Horizontal	
	Mode		Keeping	Transmittin	g	Test Vo	ltage		DC3.0V	
Ter	nperature		24	deg. C,		Humio	dity		56% RH	
Tes	st Result:		]	Pass						
CC Part 15 1.0E+2	C Class B 1GHz-18GHz	: -2								
90				$\sim$						
			/							
80										
70					\				M4	
60	and the same		Name of Street or Street o		and the same				IVI4	М
50		. adiministrative distribution								Hadaya Janahara wanana
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40										
30										
20										
10										
0.0										
	460				Frequency (MH	2483.5 z)				2500
No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdic
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)			(cm)		
1	2483.480	50.85	-3.57	74.0	-17.15	Peak	196.00	100	Horizontal	Pass
2	2484.980	54.99	-3.57	74.0	-19.01	Peak	196.00	100	Horizontal	Pass
	2484.980	39.25	-3.57	54.0	-14.75	AV	196.00	100	Horizontal	Pass
			-3.57	74.0	-19.31	Peak	237.00	100	Horizontal	Pass
2*	2487.340	54.69	0.0.		1	AV	237.00	100	Horizontal	Pass
2* 3	2487.340 2487.340	54.69 39.08	-3.57	54.0	-14.92	710				
2* 3 3*	-			54.0 74.0	-14.92 -14.00	Peak	221.00	100	Horizontal	Pass
2* 3 3* 4	2487.340	39.08	-3.57				221.00 221.00	100	Horizontal Horizontal	Pass Pass
2* 3 3* 4 4** 5	2487.340 2495.450	39.08 60.00	-3.57 -3.57	74.0	-14.00	Peak	-			

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P	roduct:	]	Porsche '	Wireless Mo	ouse	Detect	or		Vertical	
-	Mode		Keeping	g Transmitti	ing	Test Vol	tage		DC3.0V	
Ten	nperature		24	4 deg. C,		Humid	ity		56% RH	
Tes	st Result:			Pass						
CC Part 150 1.0E+2-	C Class B 1GHz-18GHz	: -2								
90-										
80-										
70-			/							
			/	\	\					
60-										
		. List			an water water					
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(W//Anga) 40-		and a support of the					and the state of t	had who were the sound of the con-		
(B/Angg) 40-		gide an array of the second						high when the state of the stat		Marine and
30- 20-		with an arrange of the second						high the standard of the second of the second		Oran and and and and and and and and and a
(WA) 50- (WA) 100 (WA) 100 (WA		William Market M			Frequency (MF	2483.5 2483.5		ideal when the second by the conf		2500
(E)/NNSD 40-		gide and and a second			Frequency (MF			high the standard of the second of the second		2500
(E) 50- 10-		Results	Factor	Limit	Frequency (MF		Table (o)	Height	ANT	2500 Verdict
(EL/NORD) 40-	160	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	1	Hz)	Table (o)		ANT	<b>.</b>

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

2. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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## 8.0 Antenna Requirement

## **Applicable Standard**

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 shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna. The antenna gain is -0.61dBi Max. It fulfills the requirement of this section. Test Result: Pass

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SK Modulation										
Product:	Mouse		Test Mode:		Keep transmitting					
Mode	Keeping Transmitting 24 deg. C, Pass 2.234MHz				Test Voltage Humidity Detector		DC3.0V 56% RH PK 			
Temperature										
Test Result:										
0dB Bandwidth										
<u></u>	Marker	1 [T1 r	ndB]	RI	3W	100 ki	Hz RI	7 Att	20 dB	
Ref Lvl	ndB	20.	.00 dB	VI	ЗW	300 ki	Hz			
0 dBm	BW 2	.234468	394 MHz	SI	VТ	5 m;	s Uı	nit	dBm	
0						<b>v</b> <sub>1</sub>	[T1]	-18	.35 dBm	
								2.40854	609 GHz	
-10						ndB		20	.00 dB	
					1	BW			894 MHz	
-20		-	$\uparrow$		1	$\nabla_{\mathrm{T}1}$	[T1]	-3	.96 dBm 281 GHz	
		ſ		m		$ abla_{\mathrm{T2}}$	[T1]		.38 dBm	
-30 1MAX	T.	m	<b>V</b>			www.	T2	2.40913	727 GHz	
-50							The second second		Mil	
-60							V)			
W										
-70										
-80										
-90										
-100Center 2.408 C				kHz/					ın 5 MHz	

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Product:	Porsche Wireless Mouse  Keeping Transmitting				est Mode:		Keep transmitting		
Mode					est Voltage		DC3.0V 56% RH		
Temperature		24 deg. C,							
Test Result:		Pass		Humidity Detector		PK			
OdB Bandwidth									
r	Marker	1 [T1 n	dB]	RBW	100 k	Hz R	F Att	20 dB	
Ref Lvl	ndB	20.		VBW	300 k				
0 dBm	BW	2.234468	94 MHz	SWT	5 m	s Ui	nit	dBn	n
					<b>v</b> <sub>1</sub>	[T1]	-1	.47 dBm	1
							2.44053	8607 GHz	
-10					ndE	3	20	.00 dB	1
					1 BW		2.23446		
-20		<del>                                     </del>	4	<del>\</del>	$\nabla_{\mathrm{T}}$	[T1]	-3	7.03 dBm	1
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Cymral I	\ ∇ <sub>T</sub> ;	2 [T1]	2.43890	281 GHz 7.37 dBm	
-30			42	V	- hy	~ ( + + )	2.44113	727 GHz	1
1MAX	T/				* 🔾	T2 V			1
-40									-
-60						W <sub>c</sub>	Mush .	Wy .	
								4	<b>A</b>
-70									
-80									-
-90									
-100 Center 2.44	CHZ		500	노 <mark>끄</mark> 코 /			gn-	an 5 MHz	<u>]</u>
CCIICEI 2.11	. 0114		500	/			սԻշ	> 1.1112	

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GFSK	Modul	ation											
Product: Porsche Wireless Mouse						Т	est Mode:		Keep transmitting				
Mode Keeping Transmitting						Те	est Voltage	;	DC3.0V				
Temperature Test Result:			24 deg. C, Pass				Humidity			56% RH			
								Detector		PK			
20dB Ban	dwidth		2.234MHz										
			Marker 1 [T1 ndB]				RBW	100 k	Hz R				
•	Lvl		ndB		00 dB		VBW	300 k					
0	dBm		BW 2	2.234468	394 MHz		SWT	5 n	ns U	nit		dBm	
Ŭ								<b>▼</b> 1	[T1]	-17	.58	dBm	A
										2.47453	607	GHz	Δ.
-10								ndl	3	20	.00	dB	
								1 BW		2.23446	894	MHz	
-20				/	<u> </u>	_	/	$\nabla_{\mathrm{T}}$	[T1]	-35	.20		
				Ŋ	\	الس	الريا	ightharpoons  ightharpoons	0 [-1]	2.47291		GHz	
-30				/_	W			V.T	2 [T1]	-31	7.10		
1MA	AX		T.					<b>₩</b> √√	T2	2.4/514	729	GHz 1	LMA
-40 -50		Ly.							7	لومس			
	N	W							\	NA NA	m	\	
-60												M	
-70													
-80													
-90													
-100													
Cen	iter 2	.474 GI	Hz		500	kHz	/			Spa	ın 5	MHz	
Date:	13	3.APR.2	021 18	:50:16									

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Date: 2021-04-15

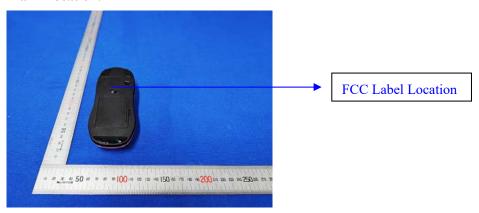


#### 10.0 FCC ID Label

#### FCC ID: TUVDS-2902

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### **Mark Location:**



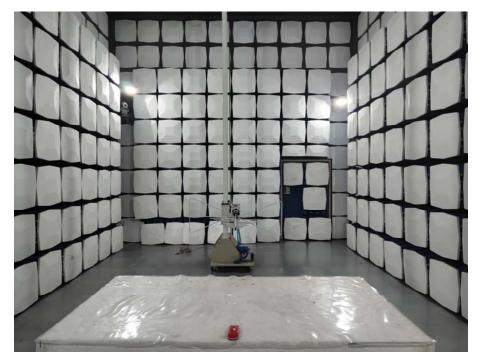
Date: 2021-04-15



11.0 Photo of testing

11.1 Conducted test View-N/A

#### 11.2 Radiated emission test view





Date: 2021-04-15



## 11.3 Photographs – EUT

#### Outside View





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## Photographs – EUT

#### Outside View





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Outside View



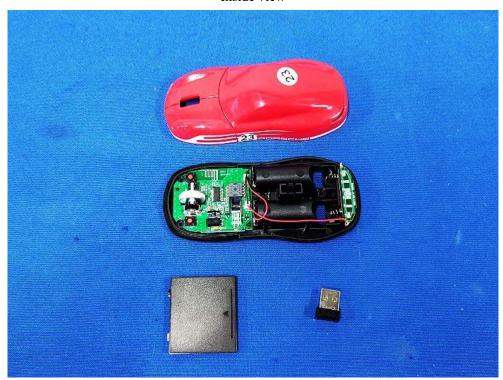
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Inside view





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Inside view





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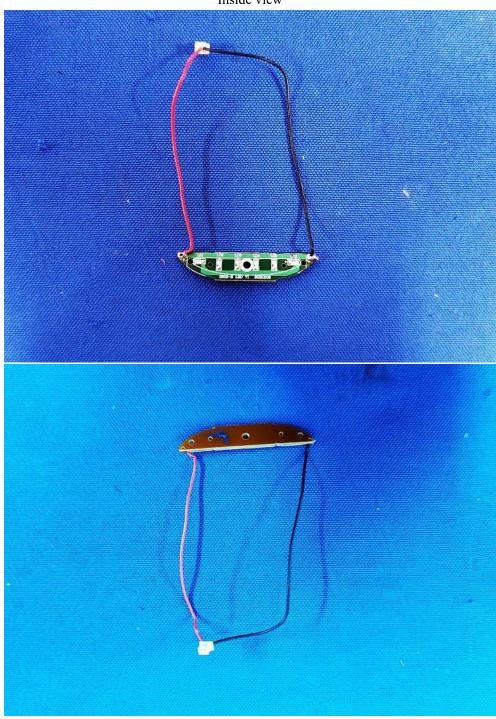
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Inside view



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