



TEST REPORT

Reference No.	:	WTF24F05113380W001
Applicant	sint	Mid Ocean Brands B.V.
Address		7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer	j.	105198
Address	:	and when the set set states where marger and
Product Name		Wireless mouse in car shape
Model No	201	M07641
Test specification	NI LI	ETSI EN 300 440 V2.2.1 (2018-07)
Date of Receipt sample	A	2024-05-30
Date of Test	2	2024-06-03 to 2024-06-04
Date of Issue	ð:	2024-06-17
Test Report Form No	- 2	WEW-300440A-01B
Test Result	:/	Pass A A A

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

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1 Test Summary

Radio Spectrum					
Test	Test Requirement	Limit / Severity	Result		
Equivalent isotropically radiated power (e.i.r.p.)	ETSI EN 300 440 V2.2.1	10 mW e.i.r.p.	Pass		
Permitted range of operating frequencies	ETSI EN 300 440 V2.2.1	fL > 2400 fH < 2483.5	Pass		
Duty cycle	ETSI EN 300 440 V2.2.1	Table 4	Pass		
Unwanted emissions in the spurious domain	ETSI EN 300 440 V2.2.1	Table 3	Pass		
Adjacent channel selectivity	ETSI EN 300 440 V2.2.1	Clause 4.3.3.4	N/A*		
Blocking or desensitization	ETSI EN 300 440 V2.2.1	Clause 4.3.4.4	Pass		
Receiver spurious radiations	ETSI EN 300 440 V2.2.1	25MHz to 1GHz: ≤2nW 1GHz: ≤20nW	Pass		

Remark:

Pass The EUT complies with the essential requirements in the standard

Fail The EUT does not comply with the essential requirements in the standard

N/A Not Applicable

This requirement applies to channelized Category 1 receivers. The EUT is channelized Category 3 receiver.



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12.1



3 General Information

3.1 General Description of E.U.T.

Product Name :	Wireless mouse in car shape
Model No :	MO7641
Remark	Tomate survive survey and
Rating	Mouse: Battery 3V (2*AAA 1.5V) Dongle: DC 5V
Battery Capacity	The last aller and and
Adapter Model:	in which we are set
3.2 Technical Specification	
Frequency Bands	2400-2483.5MHz
Operating Frequency	2402-2480MHz
Quantity of Channels	40
Maximum RF Output Power :	-5.996 dBm (EIRP)
Type of Modulation	GFSK
Antenna Installation	PCB Printed Antenna
Antenna Gain	0dBi

Receiver Category 3

	Receiver category	Description
Ś	+ white this whi	Highly reliable SRD communication media; e.g. serving human life inherent systems (may result in a physical risk to a person).
	2 2	Medium reliability SRD communication media e.g. causing inconvenience to persons, which cannot simply be overcome by other means.
	3	Standard reliability SRD communication media and radiodetermination devices. E.g. Inconvenience to persons, which can simply be overcome by other means (e.g. manual).

3.3 Channel List

2402MHz	CH21	2442MHz
2404MHz	CH22	2444MHz
2406MHz	CH23	2446MHz
2408MHz	CH24	2448MHz
2410MHz	CH25	2450MHz
2412MHz	CH26	2452MHz
2414MHz	CH27	2454MHz
2416MHz	CH28	2456MHz
	2404MHz 2406MHz 2408MHz 2410MHz 2412MHz 2412MHz 2414MHz	2404MHz CH22 2406MHz CH23 2408MHz CH24 2410MHz CH25 2412MHz CH26 2414MHz CH27

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СН9	2418MHz	CH29	2458MHz
CH10	2420MHz	CH30	2460MHz
CH11	2422MHz	CH31	2462MHz
CH12	2424MHz	CH32	2464MHz
CH13	2426MHz	СН33	2466MHz
CH14	2428MHz	CH34	2468MHz
CH15	2430MHz	CH35	2470MHz
CH16	2432MHz	CH36	2472MHz
CH17	2434MHz	CH37	2474MHz
CH18	2436MHz	CH38	2476MHz
CH19	2438MHz	CH39	2478MHz
CH20	2440MHz	CH40	2480MHz

3.4 Test Facility

The test facility has a test site registered with the following organizations:

• ISED – Registration No.: 21895

Waltek Testing Group (Foshan) Co., Ltd. has been registered and fully described in a report filed with the Innovation, Science an Economic Development Canada(ISED). The acceptance letter from the ISED is maintained in our files. Registration ISED number:21895, March 12, 2019

• FCC – Registration No.: 820106

Waltek Testing Group (Foshan) Co., Ltd. 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 820106, August 16, 2018

• NVLAP – Lab Code: 600191-0

Waltek Testing Group (Foshan) Co., Ltd. EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 600191-0. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

3.5 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

🗌 Yes 🛛 🖾 No

If Yes, list the related test items and lab information:

Test items: ---

Lab information: ---

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3.6 Abnormalities from Standard Conditions

None.

3.7 Disclaimer

The antenna gain information is provided by the customer. The laboratory is not responsible for the accuracy of the antenna gain information.

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4 Equipment Used during Test

4.1 Equipment List

ltem	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
J1	3m Semi-anechoic Chamber	CHANGCHUANG	9m×6m×6m	4 <u>4 7</u> 4	2024-01-05	2025-01-04
2	EMI TEST RECEIVER	RS	ESR7	101566	2024-01-06	2025-01-05
3	Spectrum Analyzer	Agilent	N9020A	MY48011796	2024-01-04	2025-01-03
4	Trilog Broadband Antenna	SCHWARZBECK	VULB9162	9162-117	2024-01-05	2025-01-04
5	Coaxial Cable (below 1GHz)	H+S	CBL3-NN- 12+3 m	214NN320	2024-01-06	2025-01-05
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	01561	2024-01-05	2025-01-04
7	Broadband Preamplifier (Above 1GHz)	Lunar E M	LNA1G18-40	20160501002	2024-01-04	2025-01-03
8	Coaxial Cable (above 1GHz)	Times-Micorwave	CBL5-NN	10	2024-01-04	2025-01-03
9	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	01119	2024-01-05	2025-01-04
⊠RF	Conducted test					
ltem	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Environmental Chamber	KSON	THS-D4C-100	5244K	2024-01-17	2025-01-16
2	Spectrum Analyzer	Agilent	N9020A	MY48011796	2024-01-04	2025-01-03
3	EXG Analog Signal Generator	Agilent	N5181A	MY48180720	2024-01-04	2025-01-03
4	RF Control Unit	CHANGCHUANG	JS0806-2	set set	2024-01-04	2025-01-03
5	Wideband radio communication tester	Rohde&Schwarz	CMW500	1201.0002K50 -158178-Qf	2024-01-04	2025-01-03
6	USB Wideband Power Sensor	KEYSIGHT	U2021XA	MY56510008	2024-01-04	2025-01-03

: Not Used

: Used

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4.2 Software List

Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)	FARATRONIC	EZ-EMC	RA-03A1-1
RF Conducted Test	TONSCEND	JS1120-2	2.6

4.3 Special Accessories and Auxiliary Equipment

Ī	Item	Equipment	Technical Data	Manufacturer	Model No.	Serial No.
2	1.	mer for a	~ ~ ~ ~ ~ ~	1	St 1 50 .	with million .

4.4 Measurement Uncertainty

Parameter	Uncertainty	Note
RF Output Power	±2.2dB	(1)
Occupied Bandwidth	±1.5%	(1)
The second se	±3.8dB (for 25MHz-1GHz)	(1)
Transmitter Spurious Emission	±5.0dB (for 1GHz-18GHz)	(1)

(1)This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.5 Decision Rule

Compliance or non-compliance with a disturbance limit shall be determined in the following manner.

If U_{LAB} is less than or equal to U_{cispr} , then

-Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

-Non-compliance is deemed to occur is any measured disturbance level exceeds the disturbance limt.

If U_{LAB} is greater than U_{cispr} , then

-Compliance is deemed to occur if no measured disturbance level, increased by $(U_{LAB}-U_{cispr})$, exceeds the disturbance limit;

-Non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{LAB}-U_{cispr})$, exceeds the disturbance limit.



5 Test Conditions and Test mode

The equipment under test (EUT) was configured to measure its highest possible emission/immunity level. The test modes were adapted according to the operation manual for use, the EUT was operated in the continuous transmitting mode that was for the purpose of the measurements, more detailed description as follows:

Test Mode List				
Test Mode	Description	Remark		
TM1	Low Channel	2402MHz		
TM2	Middle Channel	2440MHz		
TM3	High Channel	2480MHz		

Test Conditions									
all all all all a	Normal	LTLV	LTHV	HTHV	HTLV				
Temperature (°C)	20	-20	-20	55	55				
Voltage (Vdc)-TX	3	2.7	3.3	3.3	2.7				
Voltage (Vdc)-RX	5	<u></u>	. M. 1 20	1	1				
Relative Humidity:		1. 1.	45 %	and the substit	and a				
ATM Pressure:		They be	101.2kPa	the state	de .				



6 Equivalent isotropically radiated power (e.i.r.p.)

6.1 Standard Applicable

The transmitter maximum e.i.r.p. measurements shall be performed as described in clause 4.2.2.3 and not exceed the limits in clause 4.2.2.4. The values and measurement method utilized shall be stated in the test report.

The transmitter maximum e.i.r.p. under normal and extreme test conditions is provided in table 2.

Entry	Frequency Bands	Power	Application	Notes
1	2 400 MHz to 2 483,5 MHz	10 mW e.i.r.p.	Non-specific short range devices	NUTER AND DE
2	2 400 MHz to 2 483,5 MHz	25 mW e.i.r.p.	Radiodetermination devices	t to
3	(a) 2 446 MHz to 2 454 MHz	500 mW e.i.r.p.	Radio Frequency Identification (RFID) devices	See also table 4 and Annex G
4	(b) 2 446 MHz to 2 454 MHz	4 W e.i.r.p.	Radio Frequency Identification (RFID) devices	See also table 4 and Annex G
5	5 725 MHz to 5 875 MHz	25 mW e.i.r.p.	Non-specific short range devices	all she
6	9 200 MHz to 9 500 MHz	25 mW e.i.r.p.	Radiodetermination devices	and show a
7_2	9 500 MHz to 9 975 MHz	25 mW e.i.r.p.	Radiodetermination devices	t st
8	10,5 GHz to 10,6 GHz	500 mW e.i.r.p.	Radiodetermination devices	m. n
9	13,4 GHz to 14,0 GHz	25 mW e.i.r.p.	Radiodetermination devices	and the second
10	17,1 GHz to 17,3 GHz	400 mW e.i.r.p.	Radiodetermination devices	See Annex H
11	24,00 GHz to 24,25 GHz	100 mW e.i.r.p.	Non-specific short range devices and radiodetermination devices	NITE SHALL

Table 2: Maximum radiated power (e.i.r.p.)

NOTE: The spectrum ranges in some entries are not harmonised throughout all EU territory, specifically entries 4, 9, and 11 have been identified as such. Implementers are cautioned to refer to CEPT/ERC Recommendation 70-03 [i.2] as well as current National Radio plans to verify acceptance within intended regions of use.

6.2 Test Procedure

Reference to ETSI EN 300 440 V2.2.1 clause 4.2.2.3



6.3 Test Result

Test Channel	Test Condition	Equivalent isotropic radiated power (dBm)	Limit 5	Verdict
at at	Normal	-5.996	10mW(10dBm)	Pass
marter and a	LTLV	-6.047	10mW(10dBm)	Pass
Low Channel	J LTHV S	-6.030	10mW(10dBm)	Pass
and white	HTLV	-6.034	10mW(10dBm)	Pass
* # #	HTHV	-6.026	10mW(10dBm)	Pass
white white	Normal	-6.764	10mW(10dBm)	Pass
Middle Channel	LTLV	-6.795	10mW(10dBm)	Pass
	LTHV	-6.792	10mW(10dBm)	Pass
1. 15	HTLV	-6.782	10mW(10dBm)	Pass
the show an	HTHV	-6.787	10mW(10dBm)	Pass
1 1 1	Normal	-7.951	10mW(10dBm)	Pass
sure sure	LTLV	-7.935	10mW(10dBm)	Pass
High Channel	LTHV	-7.932	10mW(10dBm)	Pass
when when	HTLV	-7.949	10mW(10dBm)	Pass
29. N.			10mW(10dBm)	

The cable loss and antenna is taken into account in results.
 P=A(RMS power)+G+Y, Antenna gain (G): 0dBi

Test plot:

Worst case at Low Channel Normal Condition

XII RF [S0.27. AC] Marker 1 2.401892000000 GHz 10 dB/dily Ref 20.00 dBm	PNO: Fast IFGain:Low	SENSE:INT Trig: Free F Atten: 30 d	Run	IGNAUTO Avg Type: L Avg Hold:>1	00/100	aT -	DAM Jun 04, 202 ACE 1 2 3 4 5 YPE M WAAAAAA DET P N N N N 892 GH2
10 dB/div Ref 20.00 dBm					M	kr1 2.401	892 GH:
						-5.	892 GH: 996 dBm
10.0							
0.00		1					
-10.0							
-20.0							
-40.0							
-50.0							
-60.0							
-70.0							
Center 2.402000 GHz #Res BW 1.0 MHz	#VB	W 3.0 MHz			Swe	Span ep 1.00 ms	3.000 MH: (1001 pts

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7 Permitted range of operating frequencies

7.1 Standard Applicable

The width of the power spectrum envelope is fH -fL for a given operating frequency. In equipment that allows adjustment or selection of different operating frequencies, the power envelope takes up different positions in the allowed band. The frequency range is determined by the lowest value of fL and the highest value of fH resulting from the adjustment of the equipment to the lowest and highest operating frequencies.

The occupied bandwidth (i.e. the bandwidth in which 99 % of the wanted emission is contained) of the transmitter shall fall within the assigned frequency band.

For all equipment the frequency range shall lie within the frequency band given by clause 4.2.2.4, table 2. For non-harmonized frequency bands the available frequency range may differ between national administrations.

7.2 Test Procedure

Reference to ETSI EN 300 440 V2.2.1 Clause 4.2.3.3.

7.3 Test Result

	Frequency range measure in a 30KHz bandwidth								
Test Conditions	f _L at Low Cha	nnel (MHz)	f _H at High Channel (MHz)						
n da da	Measure result	Limit	Measure result	Limit					
Normal	2401.382	$f_L > 2400$	2480.576	f _H < 2483.5					
LTLV	2401.382	f _L > 2400	2480.576	f _H < 2483.5					
LTHV	2401.379	f _L > 2400	2480.573	f _H < 2483.5					
HTLV	2401.385	f _L > 2400	2480.582	f _H < 2483.5					
HTHV	2401.382	f _L > 2400	2480.582	f _H < 2483.5					



8 Duty Cycle

8.1 Standard Applicable

Duty Cycle (DC) shall apply to all transmitting equipment except those which utilize Listen Before Talk (LBT)clause 4.4.2, or Detect And Avoid (DAA)clause 4.4.3.

RFID transmitters operating in the 2 446 MHz to 2 454 MHz frequency band that transmit at a maximum radiated peak power level of less than 500 mW e.i.r.p. are also excluded.

For equipment utilizing table B.1 bands C or E, with a radiated power of less than 100 uW e.i.r.p, no duty cycle is specified.

	_		
Frequency Band	Duty cycle	Application	Notes
2 400 MHz to 2 483,5 MHz	No Restriction	Generic use	
2 400 MHz to 2 483,5 MHz	No Restriction	Radiodetermination	
(a) 2 446 MHz to 2 454 MHz	No Restriction	RFID	Limits shown in
			Annex G shall apply
(b) 2 446 MHz to 2 454 MHz	≤ 15 %	RFID	Limits shown in
			Annex G shall apply
5 725 MHz to 5 875 MHz	No Restriction	Generic use	
9 200 MHz to 9 500 MHz	No Restriction	Radiodetermination	
9 500 MHz to 9 975 MHz	No Restriction	Radiodetermination	
10,5 GHz to 10,6 GHz	No Restriction	Radiodetermination	
13,4 GHz to 14,0 GHz	No Restriction	Radiodetermination	
17,1 GHz to 17,3 GHz	DAA or	Radiodetermination, limited to	Limits shown in
	equivalent	GBSAR detecting and movement	Annex I shall apply
	techniques	and alert applications	
24,00 GHz to 24,25 GHz	No Restriction	Generic use and for	
		radiodetermination	
NOTE: The spectrum ranges	in some entries an	e not harmonised throughout all EU te	rritory, specifically
entries 4, 9, and 11 h	ave been identified	as such. Implementers are cautioned	to refer to
CEPT/ERC Recomme	endation 70-03 [i.2]] as well as current National Radio pla	ns to verify
acceptance within inte	ended regions of us	Se.	

Table 4: Duty cycle limits

For devices with a 100 % duty cycle transmitting an unmodulated carrier most of the time, a time-out shut-off facility shall be implemented in order to improve the efficient use of spectrum.

8.2 Test Procedure

Reference to ETSI EN 300 440 V2.2.1 Clause 4.2.5.3.

8.3 Test Result

The EUT was manual operation for remote controller, it's declared by the manufacturer as a duty cycle ratio of more than 10% and up to 100%.



9 Unwanted emissions in the spurious domain

9.1 Standard Applicable

The level of unwanted emissions in the spurious domain shall be measured as described in clause 4.2.4.3 and not exceed the limits in clause 4.2.4.4.

The maximum power limits of any unwanted emissions in the spurious domain are given in table 3.

· 49. 47	Table 3: Spurie	ous emissions	a the the second
Frequency ranges	47 MHz to 74 MHz 87,5 MHz to 108 MHz	Other frequencies	Frequencies
State	174 MHz to 230 MHz 470 MHz to 862 MHz	≤ 1 000 MHz	> 1 000 MHz
Operating	4nW	250 nW	1 µW
Standby	2nW	2nW	20 nW

9.2 Test Procedure

Reference to ETSI EN 300 440 V2.2.1 Clause 4.2.4.3.

9.3 Test Result

1	Receiver	Turn	RX An	tenna	Substituted			Absolute		dr.
Frequency (MHz)	Reading (dBµV)	table Angle (°)	Height (m)	Polar (H/V)	SG Level (dBm)	Cable (dB)	Antenna Gain (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
price where		V F			TX mode	d La		mater of	See all	a m
132.50	37.05	312	1.6	М Ньб	-70.95	0.15	0.00	-70.80	-36	-34.80
132.50	35.77	143	1.3	V	-71.18	0.15	0.00	-71.03	-36	-35.03
4435.26	41.76	176	2.0	н	-49.43	2.57	12.70	-59.56	-30	-29.56
4435.26	42.74	138	1.2	V	-46.41	2.57	12.70	-56.54	-30	-26.54
5275.78	43.70	106	1.2	्रभ	-45.90	2.81	12.80	-55.89	-30	-25.89
5275.78	43.03	293	1.6	V	-45.79	2.81	12.80	-55.78	-30	-25.78

	Receiver	Turn	RX An	tenna	Substituted			Absolute	and and	and a
Frequency (MHz)	Reading (dBµV)	table Angle (°)	Height (m)	Polar (H/V)	SG Level (dBm)	Cable (dB)	Antenna Gain (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
, st	1. 3	5 . S ^A	N.S.C.	Sta	andby mo	de	20 20	a de	đ	de la
864.84	23.14	106	1.1	H.sh	-72.30	0.22	0.00	-72.08	-57	-15.08
864.84	23.33	160	1.7	V V	-72.09	0.22	0.00	-71.87	-57	-14.87
1434.84	42.43	151	1.8	"_Н	-52.13	0.28	8.00	-59.85	-47	-12.85
1434.84	45.55	263	్ 1.1్రి	V - 5	-50.65	0.28	8.00	-58.37	-47	-11.37
2639.45	47.02	164	1.4	,⊱H	-46.59	0.45	10.70	-56.84	-47	-9.84
2639.45	42.85	178	1.6	V	-46.84	0.45	10.70	-57.09	-47	-10.09

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10 Receiver Spurious radiations

10.1 Standard Applicable

The spurious radiations measurements shall be performed as described in clause 4.3.5.3 and not exceed the limits in clause 4.3.5.4. The values and measurement method utilized shall be stated in the test report.

The power of any spurious emission shall not exceed 2 nW in the range 25 MHz to 1 GHz and shall not exceed 20 nW on frequencies above 1 GHz.

10.2 Test Procedure

Reference to ETSI EN 300 440 V2.2.1 Clause 4.3.5.3.

10.3 Test Result

	Receiver	Turn	RX An	RX Antenna		Substituted			500	No. The
Frequency (MHz)	Reading (dBµV)	table Angle (°)	Height (m)	Polar (H/V)	SG Level (dBm)	Cable (dB)	Antenna Gain (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
a de	A	ê s	\$ J	* . S	RX mode	m	an a	$p_{ij} = q_{ij}$		
185.32	36.81	291	1.7	н	-73.20	0.15	0.00	-73.05	-57	-16.05
185.32	36.26	318	1.2	V	-71.36	0.15	0.00	-71.21	-57	-14.21
1999.57	46.33	190	1.8	н	-47.26	0.31	10.40	-57.35	-47	-10.35
1999.57	47.64	147	1.1	V	-45.19	0.31	10.40	-55.28	-47	-8.28
2878.07	44.67	153	2.0	н	-47.03	0.46	11.20	-57.77	-47	-10.77
2878.07	41.08	109	1.1	V	-46.36	0.46	11.20	-57.10	-47	-10.10



11 Blocking or desensitization

11.1 Standard Applicable

he blocking or desensitization measurements shall be performed as described in clause 4.3.4.3 and not exceed the

limits in clause 4.3.4.4. The values and measurement method utilized shall be stated in the test report. The blocking level, for any frequency within the specified ranges, shall not be less than the values given in table 6, except at frequencies on which spurious responses are found.

Table 6: Limits for blocking or desensitization

Receiver category	Limit
1	-30 dBm + k
2	-45 dBm + k
3 5	-60 dBm + k

The correction factor, k, is as follows:

 $k = -20\log f - 10\log BW$

Where:

-f is the frequency in GHz;

- BW is the occupied bandwidth in MHz.

The factor k is limited within the following:

- -40 dB < k < 0 dB.

The measured blocking level shall be stated in the test report.

11.2 Test Procedure

This measurement shall be conducted under normal conditions.

Two signal generators A and B shall be connected to the receiver via a combining network to the receiver, either:

a) via a test fixture or a test antenna to the receiver integrated, dedicated or test antenna; or

b) directly to the receiver permanent or temporary antenna connector.

The method of coupling to the receiver shall be stated in the test report.

Signal generator A shall be at the nominal frequency of the receiver, with normal modulation of the wanted signal. Signal generator B shall be unmodulated and shall be adjusted to a test frequency at approximately 10 times, 20 times and 50 times of the occupied bandwidth above upper band edge of occupied bandwidth.

Initially signal generator B shall be switched off and using signal generator A the level which still gives sufficient response shall be established. The output level of generator A shall then be increased by 3 dB.

Signal generator B is then switched on and adjusted until the wanted criteria are met. This level shall be recorded.

The measurement shall be repeated with the test frequency for signal generator B at 10 times, 20 times and 50 times of the occupied bandwidth below the lower band edge of the occupied bandwidth.

The blocking or desensitization shall be recorded as the level in dBm of lowest level of the unwanted signal (generator B).

For tagging systems (e.g. RF identification, anti-theft, access control, location and similar systems) signal

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generator A may be replaced by a physical tag positioned at 70 % of the measured system range in metres. In this case, the blocking or desensitization shall be recorded as the ratio in dB of lowest level of the unwanted signal (generator B) resulting in a non-read of the tag. to the declared sensitivity of the receiver +3 dB.

11.3 Test Result

NUTER SUNITE		Level Bm)	and the state	SB	Set and	whitee wi	k	the sheet
Frequency (MHz)	P _{min}	P _{min +} 3	Blocking signal fr (MHz)	Occupied bandwidth (MHz)	factor (dB)	Limit (dBm)		
WALL M	4	242 -24	Upper band edge +10 times OBW	2413.055	-16	ale surface	-7.84	un vi
whites whit		Sector Maria	Lower band edge - 10 times OBW	2390.9	-20	er maret .		
2402 -58	-58	-55	Upper band edge +20 times OBW	2423.603	-17	1.0548		67.94
2402	2402 00 00	-55	Lower band edge - 20 times OBW	2380.352	-20	1.0548		-67.84
and and the states of		unit v	Upper band edge +50 times OBW	2455.247	-17	NUTER DINITE		
NJEt al		aren with	Lower band edge - 50 times OBW	2348.708	-15	set set		NUTER N
and south a		in si	Upper band edge +10 times OBW	2450.734	-19		er v	d i
		۸Ÿ.	Lower band edge - 10 times OBW	2429.233	-17	Samere M		-67.85
2440	EO	58 -55	Upper band edge +20 times OBW	2460.97	-17	1.0236	-7.85	
2440	-00		Lower band edge - 20 times OBW	2418.997	-16		-1.05	
an a			Upper band edge +50 times OBW	2491.678	-20 🔊			
WALL WAL	al a	- sur	Lower band edge - 50 times OBW	2388.289	-20	St. Marter		in in
State Shirt	. Walter	white	Upper band edge +10 times OBW	2490.643	-17	55	Set and	et and
5 5		. Let	Lower band edge - 10 times OBW	2469.318	-20			50
2480	-59	-55	Upper band edge +20 times OBW	2500.797	-16	1 0154	-7.06	-67.06
2400	-30	-58 -55	Lower band edge - 20 times OBW	2459.164	-15	— 1.0154 —	-7.96	-67.96
and when		et mus	Upper band edge +50 times OBW	2531.259	-17			
the strength		dr.	Lower band edge - 50 times OBW	2428.702	-18	an a		4 J.



12 Photographs – Test Setup

12.1 Photograph – Spurious Emissions Test Setup For Transmitter





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12.2 Photograph – Spurious Emissions Test Setup For Receiver





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13 Photographs – EUT Constructional Details

Please refer to "ANNEX".

=====End of Report======

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TEST REPORT

Reference No.	:	WTF24F05113380W002
Applicant	ALL C	Mid Ocean Brands B.V.
Address	:	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer	j.	105198
Address	: -	White where the state state winds mind minds white
Product Name		Wireless mouse in car shape
Model No	-un	MO7641
Test specification	in the	EN 62479:2010 EN 50663:2017
Date of Receipt sample	get-	2024-05-30
Date of Test	ż	2024-06-03 to 2024-06-04
Date of Issue	- 	2024-06-17
Test Report Form No	:	WEW-62479A-01B
Test Result		Pass at the second seco

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

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Tested by:

Roy Hong

Approved by:

VOU mIZ Danny Zhou

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1 Test Summary

Test	Test Method	Class / Severity	Result
RF Exposure	EN 62479:2010 EN 50663:2017	Mart and and	Pass

Pass Test item meets the requirement

N/A Not Applicable

5/5

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3 **General Information**

General Description of E.U.T. 3.1

Product Name :	Wireless mouse in car shape
Model No	MO7641
Remark:	- WALTE WALTE WALT WAL
Rating	Mouse: Battery 3V (2*AAA 1.5V) Dongle: DC 5V
Battery Capacity	Tot the surfice section as
Adapter Model	n and the set of
3.2 Technical Specification	
Frequency Bands :	2400-2483.5MHz
Operating Frequency	2402-2480MHz
Quantity of Channels	40
Maximum RF Output Power :	-5.996 dBm (EIRP)
Type of Modulation	GFSK

Frequency Bands		2400-2483.5MHz
Operating Frequency	:	2402-2480MHz
Quantity of Channels	:	40
Maximum RF Output Power	-3	-5.996 dBm (EIRP)
Type of Modulation	e é	GFSK
Antenna Installation	2	PCB Printed Antenna
Antenna Gain	•	0dBi

3.3 Standards Applicable for Testing

The tests were performed according to following standards:

EN 62479:2010 Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)

EN 50663:2017

Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)

Disclaimer 3.4

The antenna gain information is provided by the customer. The laboratory is not responsible for the accuracy of the antenna gain information.

RF EXPOSURE BASIC RESTRICTIONS 4

4.1 Limits Standard Applicable

According to EN 62479:2010, Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz).

Low-power exclusion level Pmax based on considerations of SAR

When SAR is the basic restriction, a conservative minimum value for Pmax can be derived, equal to the localized SAR limit (SARmax) multiplied by the averaging mass (m):

$$P_{\max} = SAR_{\max} m \tag{A.1}$$

Example values of P_{max} according to Equation (A.1) are provided in Table A.1 for cases described by the ICNIRP guidelines [1], IEEE Std C95.1-1999 [2] and IEEE Std C95.1-2005 [3] where SAR limits are defined. Other exposure guidelines or standards may be applicable depending on national regulations.

Table A.1 – Example values of SAR-based P _{max} for some cases described by ICNIRP,
IEEE Std C95.1-1999 and IEEE Std C95.1-2005

Guideline / Standard	SAR limit, SAR _{max}	Averaging mass, m	P _{max}	Exposure tier ^a	Region of body ^a
	W/kg	g	mW		
	2	10	20	General public	Head and trunk
ICNIRP [1]	4	10	40	General public	Limbs
	10	10	100	Occupational	Head and trunk
	20	10	200	Occupational	Limbs
IEEE Std C95.1-1999 [2]	1,6	1	1,6	Uncontrolled environment	Head, trunk, arms, legs
	4	10	40	Uncontrolled environment	Hands, wrists, feet and ankles
	8	1	8	Controlled environment	Head, trunk, arms, legs
	20	10	200	Controlled environment	Hands, wrists, feet and ankles
IEEE Std C95.1-2005 [3]	2	10	20	Action level	Body except extremities and pinnae
	4	10	40	Action level	Extremities and pinnae
	10	10	100	Controlled environment	Body except extremities and pinnae
	20	10	200	Controlled environment	Extremities and pinnae



100

4.2 Evaluation Methods

Based on the above standard limit, the basic restriction at frequency between 10MHz to 300GHz is on localized SAR in the head. Any device with output power below 20mW cannot produce an exposure exceeding this restriction under the most pessimistic exposure conditions.

The basic restriction is 2W/Kg for general public device, so any unit which supplies less than 20mW from it's antenna port, averaged over 6 minutes, will meet the basic restriction.

4.3 Evaluation Results

Maximum Average Output Power

Frequency	RF Output Power	RF Output Power	Limit	Result
(MHz)	(dBm)	(mW)	(mW)	
2402-2480	-5.996	0.251	20	Pass

Remark: The details of RF output power refer to report No.WTF24F05113380W001.

Since average output power at worse case is: 0.251mW which cannot exceed the exempt condition, 20mW specified in EN 62479. It is deemed to full fit the requirement of RF exposure basic restriction specified in EC Council Recommendation (1999/519/EC).

5 Photographs – EUT Constructional Details

Please refer to "ANNEX".

=====End of Report======



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