

# Technical Report No.: 60.850.14.070.04R Dated: 2016-06-26

**CLIENT:** 

Company Name:

I.R.I.S.s.a.

Address:

I.R.I.S. s.a rue du bosquet 10 1348 Louvain-La-Neuve

Belgium

**MANUFACTURING PLACE:** 

**Company Name:** 

Systech Electronic Ltd.

Address:

Unit 802, 8/F, Sunbeam Centre, 27 Shing Yip Street,

Kwun Tong, Kowloon, Hong Kong.

**TEST SUBJECT:** 

Product

Mouse scanner

Model :

IRIScan<sup>TM</sup> Mouse Wifi

TEST SPECIFICATION:

EN 300440-2 V1.4.1 (2010-08)

EN 62479:2010

PRUPOSE OF EXAMINATION:

EN 300440-2: Short range Devices (SRD): Radio equipment to be used in the 1 GHz to 40 GHz frequency range.

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

TEST RESULTS: POSITIVE

**Positive:** The results show that the presented product is in compliance with the specified requirements.

Negative: The present test results show that after removal of the points of non-compliance as listed in the report

and an appropriate retest the product is in compliance with specified requirements. A retest of a

modified product is necessary. A certification can be recommended at a positive result.

This report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production.

TÜV SÜD South Region Report Template No. (TEL\_SR\_F\_12.20E).

This test report has total number of pages is 44.

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57mon Wan

Approved by: John Zhi

Project Engineer

Date: 2016-06-26

Section Manager

Date: 2016-06-26



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# TEST REPORT SUMMARY

**Applicant** : I.R.I.S.s.a

I.R.I.S. s.a rue du bosquet 10 1348 Louvain-La-Neuve Belgium

**Manufacturer** : Systech Electronics Ltd.

26/F Lever Tech Centre, 69-71 King Yip Street, Kwun Tong,

Kowloon, Hong Kong

**Regulation Applied** : EN 300440-2 V1.4.1(2010-08)

EN 62479:2010

**Model** : IRIScan<sup>TM</sup> Mouse Wifi

**Date of Test Item Received** : 2014-12-09

**Date of Test Started** : 2014-12-10

**Date of Test Completed** : 2016-06-26

#### WE HEREBY CERTIFY THAT:

The data shown in this report were made in accordance with the procedures given in EN 300440-2 V1.4.1(2010-08) and EN 62479:2010, and the energy emitted by the device was found to be within the limits of applicable. The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

#### Note:

- 1. The results of the testing report only related to the tested item.
- 2. The testing report shall not be reproduced except in full, without the written approval of the test laboratory.
- 3. The manufacturer has the sole responsibility of continued compliance of the devices.
- 4. The result of the testing report shown as the worst case.



# **GENERAL INFORMATION**

# **Description of EUT:**

The EUT is the Mouse scanner with Scanner function.

## **Product Information:**

General Information of EUT
Primary function:
<ul><li>□ Data, message transfer</li><li>□ Audio transfer</li><li>□ Others,</li></ul>
Systems employs transponders:  Yes  No
Type of equipment: Stand alone
Equipment classification
<ul> <li>☐ Fixed use</li> <li>☐ Portable use</li> <li>☐ Vehicle use</li> </ul>
List of ports
☐ No input/output port
☐ AC mains input/ AC-cable longer than 3 m? ☐ Yes ☐ No
DC power input/output ports, DC-cable longer than 3 m?  Yes No
☐ Control ports, control cable longer than 3 m? ☐ Yes ☐ No
☐ AV ports, single cable longer than 3 m? ☐ Yes ☐ No
☐ Telecommunication ports, RJ45 port
Minimum performance level declared by the manufacturer:
The Dongle can react the transmitter's commend properly.
Primary functions during EMC exposure:
The Dongle can react the transmitter's commend properly.



Transmitter Part
Occupation bandwidth:
Wideband equipment
Narrow band equipment
Type of modulation: DSSS
Antenna type: Integral
Antenna gain (dBi): 0 dBi
Power class and maximum permissible power: 8 ( 10mW)
Different carrier power settings: No  Yes,
Operating frequency: 2402 to 2479 MHz
No. of operating channel: 78
Power supply
Main Source (Dongle Part)
Input : DC 5V (By USB Port)
Battery operated (Mouse Part)
Regulated lead-acid battery
DC 3.7V, 650mAh Li-ion Rechargeable Battery
Operating mode of EUT:
Not capable to produce an unmodulated carrier
<ul><li>☐ Capable to produce an unmodulated carrier</li><li>☐ Standby – Off</li></ul>
No of Channels: 78
100 Grammers. 70
2402; 2403; 2404; 2405; 2406; 2407; 2408; 2409; 2410; 2411; 2412; 2413; 2414; 2415; 2416; 2417;
2418; 2419; 2420; 2421; 2422; 2423; 2424; 2425; 2426; 2427; 2428; 2429; 2430; 2431; 2432; 2433;
2434; 2435; 2436; 2437; 2438; 2439; 2440; 2441; 2442; 2443; 2444; 2445; 2446; 2447; 2448; 2449;
2450; 2451; 2452; 2453; 2454; 2455; 2456; 2457; 2458; 2459; 2460; 2461; 2462; 2463; 2464; 2465; 2466; 2467; 2468; 2469; 2470; 2471; 2472; 2473; 2474; 2475; 2476; 2477; 2478; 2479
2400, 2407, 2400, 2407, 2470, 2471, 2472, 2473, 2474, 2473, 2470, 2477, 2478; 2479



Receiver Part
Receiver Category: 3
Power supply
Main Source (Dongle Part) Input: DC 5V (By USB Port)
Battery operated (Mouse Part)
Regulated lead-acid battery
DC 3.7V, 650mAh Li-ion Rechargeable Battery
Operating mode of EUT:  Operated  Standby
Software and Hardware Version of EUT
None
Supported accessories and Equipments
None.
Equipment Modification
No modification was made to the EUT.

# **Test Location:**

T12

# **Test Conditions:**

Normal temperature under testing: 25°C, Relative Humidity: 56%

Measurement uncertainty			
Parameter	Uncertainty		
Occupied Channel Bandwidth	±2.8%		
RF output power, conducted	±0.7dB		
Power Spectral Density, conducted	±1.5dB		
Unwanted Emissions, conducted	±1.5dB		
Temperature	±0.5°C		
Humidity	±3%		
DC and low frequency voltages	±1%		
Time	±2%		
Duty Cycle	±2%		



# **DESCRIPTION OF PRODUCT CATEGORIES**

# **Equipment Categories**

Category	Purpose
I	General
II	Portable
III	Equipment for normal indoor use

# **Receiver Categories**

Receiver Category	Risk Assessment of Receiver Performance	
1	Highly reliable SRD communication media; e.g. serving human life inherent systems ( may result in a physical risk to a person ).	
2	Medium reliable SRD communication media e.g. causing inconvenience to persons, which cannot simply be overcome by other means.	
3	Standard reliable SRD communication media e.g. Inconvenience to persons, which can simply be overcome by other means (e.g. manual).	



# ESSENTAIL RADIO TEST SUITES - EN 300 440-2 V1.4.1 (2010-08)

# TRANSMITTER – EQUIVALENT ISOTROPIC RADIATED POWER SUBCLAUSE 5.3.1

Result PASS

**USB Dongle:** 

		Power (dBm)		
Test Conditions		Lowest Channel Middle Channel Highest Channel (2402MHz) (2440 MHz) (2479MHz)		Highest Channel (2479MHz)
T <sub>nom</sub> ( 20 °C)	V <sub>nom</sub> (5)VDC	-5.47	-5.72	-5.10
	V <sub>min</sub> ()VDC			
$T_{min}(0 ^{\circ}\text{C})$	V <sub>nom</sub> ( 5.0)VDC	-5.62	-6.07	-5.22
	V <sub>min</sub> ()VDC			
$T_{\text{max}}(60  ^{\circ}\text{C})$	V <sub>nom</sub> ( 5.0)VDC	-5.70	-5.79	-5.02
Limit		10mW / 10dBm		

#### Mouse:

		Power (dBm)		
Test (	Conditions	G .		Highest Channel (2479MHz)
T <sub>nom</sub> ( 20 °C)	V <sub>nom</sub> ( 3.7)VDC	-4.19	-5.02	-4.75
	V <sub>min</sub> (3.3)VDC	-4.55	-5.18	-5.22
$T_{min}(0 ^{\circ}\text{C})$	V <sub>max</sub> ( 4.1)VDC	-4.37	-4.69	-4.72
	V <sub>min</sub> (3.3)VDC	-4.77	-5.23	-5.26
T <sub>max</sub> ( 60 °C)	V <sub>max</sub> ( 4.1)VDC	-4.13	-4.81	-5.10
Limit		10mW / 10dBm		



#### **LIMITS** EN 300440-1 Clause 7.1.3

## Table 4: Maximum radiated peak power (e.i.r.p)

Frequency Bands	Power	Application	Notes
2 400 MHz to 2 483,5 MHz	10 mW e.i.r.p.	Generic use	7
2 400 MHz to 2 483,5 MHz	25 mW e.i.r.p.	Detection, movement and alert applications	
(a) 2 446 MHz to 2 454 MHz	500 mW e.i.r.p.	RFID	See also table 6 and annex C
(b) 2 446 MHz to 2 454 MHz	4 W e.i.r.p.	RFID	See also table 6 and annex C
5 725 MHz to 5 875 MHz	25 mW e.i.r.p.	Generic use	
9 200 MHz to 9 500 MHz	25 mW e.i.r.p.	Radiodetermination: radar, detection, movement and alert applications	
9 500 MHz to 9 975 MHz	25 mW e.i.r.p.	Radiodetermination: Radar, detection, movement and alert applications	
10,5 GHz to 10,6 GHz	500 mW e.i.r.p.	Radiodetermination: Radar, detection, movement and alert applications	
13,4 GHz to 14,0 GHz	25 mW e.i.r.p.	Radiodetermination: Radar, detection, movement and alert applications	
17,1 GHz to 17,3 GHz	400 mW e.i.r.p.	Radiodetermination: GBSAR detection, movement and alert applications	See annex E
24,00 GHz to 24,25 GHz	100 mW e.i.r.p.	Generic use and Radiodetermination: radar, detection, movement and alert applications	



## TRANSMITTER – PERMITTED RANGE OF OPERATION FREQUENCIES

**SUBCLAUSE 5.3.2** 

Result PASS

**F**<sub>L</sub> is the lowest frequency of the power envelope; it is the frequency furthest below the frequency of maximum power where the output power drops below the level of -75dBm/Hz spectral power density e.i.r.p.

**F**<sub>H</sub> is the highest frequency of the power envelope; it is the frequency furthest below the frequency of maximum power where the output power drops below the level of -75dBm/Hz spectral power density e.i.r.p.

## **Operation mode of EUT:**

## **USB Dongle:**

Test Conditions		Occupied frequency range	
		FL (MHz)	F <sub>H</sub> (MHz)
T <sub>nom</sub> ( 20 °C)	V <sub>nom</sub> ( 5)VDC	2401.606	2480.102
	V <sub>min</sub> ()VDC		
$T_{min}(\ 0\ ^{\circ}C)$	V <sub>nom</sub> ( 5.0)VDC	2401.613	2480.098
	V <sub>min</sub> ()VDC		
$T_{max}(60  ^{\circ}C)$	V <sub>nom</sub> ( 5.0)VDC	2401.645	2480.105
Max. occupied fre	quency range (MHz)	2401.606	2480.105
Frequency ba	nd limit ( MHz)	2400.0	2483.5

#### Mouse:

Test Conditions		Occupied frequency range	
		F <sub>L</sub> (MHz)	F <sub>H</sub> (MHz)
T <sub>nom</sub> ( 20 °C)	V <sub>nom</sub> (3.7)VDC	2401.864	2480.028
	V <sub>min</sub> ( 3.3)VDC	2401.891	2480.091
$T_{min}(0 ^{\circ}\text{C})$	V <sub>max</sub> ( 4.1)VDC	2401.886	2480.086
T <sub>max</sub> ( 60 °C)	V <sub>min</sub> ( 3.3)VDC	2401.869	2480.065
	V <sub>max</sub> ( 4.1)VDC	2401.900	2480.056
Max. occupied fre	quency range (MHz)	2401.864	2480.091
Frequency ba	nd limit ( MHz)	2400.0	2483.5

Occupied Bandwidth ( the bandwidth in which 99% of the wanted emission is contained ) under normal test condition:



LIMITS EN 300440-1 Clause 7.2.4

The occupied bandwidth (i.e. the bandwidth in which 99% of the wanted emission is contained) and the necessary bandwidth 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 7.1.3 table 4. For non-harmonized frequency bands the available frequency range may differ between national administrations.



# TRANSMITTER – UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

**SUBCLAUSE 5.3.3** 

Result PASS

Measuring Receiver Bandwidth: 120 kHz for test frequency within 30- 1000 MHz.

Spectrum Analyser Bandwidth: 1 MHz for test frequency above 1 GHz.

**USB Dongle:** 

Operating Mode (2402MHz)					
Frequency (MHz)	Spurious Emissions Level (dBm)	Limit (dBm)			
4804.00	-38.92	-30.0			
7206.00	-40.78	-30.0			
9608.00	-40.55	-30.0			
	Standby Mode				
Frequency (MHz)	Polarization	Spurious Emissions Level (dBm			

Operating Mode (2444MHz)					
Frequency (MHz)	Limit (dBm)				
4880.00	-39.08	-30.0			
7320.00	-40.37	-30.0			
9760.0	-40.08	-30.0			
	Standby Mode				
Frequency (MHz)	Polarization	Spurious Emissions Level (dBm)			
Remarks:					



Operating Mode (2479MHz)					
Frequency (MHz)	Spurious Emissions Level (dBm)	Limit (dBm)			
4958.00	-39.52	-30.0			
7437.00	-40.10	-30.0			
9916.00	-39.99	-30.0			
	Standby Mode				
Frequency (MHz)	Polarization	Spurious Emissions Level (dBm)			
Remarks:	Remarks:				

#### Mouse:

	Operating Mode (2402MHz)				
Frequency (MHz)					
4804.00	-38.29	-30.0			
7206.00	-40.54	-30.0			
9608.00	-40.23	-30.0			
	Standby Mode				
Frequency (MHz)	Polarization	Spurious Emissions Level (dBm)			
Remarks:					

Operating Mode (2444MHz)					
Frequency (MHz)	Spurious Emissions Level (dBm)	Limit (dBm)			
4880.00	-38.36	-30.0			
7320.00	-40.11	-30.0			
9760.0	-39.22	-30.0			
	Standby Mode				
Frequency (MHz)	Polarization	Spurious Emissions Level (dBm)			



Operating Mode (2479MHz)				
Frequency (MHz)	Spurious Emissions Level (dBm)  Limit (dBm)			
4958.00	-39.27 -30.0			
7437.00	-39.54 -30.0			
9916.00	-39.25 -30.0			
Standby Mode				
Frequency (MHz)	Polarization Spurious Emissions Le	evel (dBm)		
temarks:				

EN 300440-1 Clause 7.3.6 **LIMITS** 

State	47 MHz to 74 MHz 87.5 MHz to 118 MHz 174 MHz to 230 MHz 470 MHz to 862 MHz	Other Frequencies < 1000 MHz	Frequencies > 1000 MHz
Operating	4 nW /-54dBm	250 nW / -36dBm	1 μW / -30dBm
Standby	2 nW /-57dBm	2 nW / -57dBm	20nW / -47dBm



#### RECEIVER - ADJACENT CHANNEL SELECTIVITY

#### **SUBCLAUSE 5.4.1**

Result N.A.

Explanation: This testing is for category 1 receivers.

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.

Operating Mode				
Frequency (GHz)	Channel Bandwidth (MHz)	Signal Generators A (Output Level)	Signal Generators B (Output Level)	Limit

LIMITS EN 300440-1 Clause 8.1.3

The adjacent channel selectivity of the equipment under specified conditions shall not be less than the levels of the unwanted signal as stated in table.

Receiver Category	Limit
1	-30 dBm + k
2	No limit
3	No limit

The correction factor, k, is as follows:

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

Where: f is the frequency in GHz; BW is the channel bandwidth in MHz.

The factor k is limited within the following: 0 < k < 40 dB.



#### RECEIVER - BLOCKING OR DESENSITIZATION

**SUBCLAUSE 5.4.2** 

Result N.A.

Explanation: This testing is for category 1 and 2 receivers.

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.

Operating Mode				
Frequency (GHz)	Channel Bandwidth (MHz)	Signal Generators A (Output Level)	Signal Generators B (Output Level)	Limit

LIMITS EN 300440-1 Clause 8.2.3

The adjacent channel selectivity of the equipment under specified conditions shall not be less than the levels of the unwanted signal as stated in table.

Receiver category	Limit
1	-30 dBm + k
2	-45 dBm + k
3	No limit

The correction factor, k, is as follows:

k=-20log f - 10 log BW

Where: f is the frequency in GHz; BW is the channel bandwidth in MHz.

The factor k is limited within the following: 0 < k < 40 dB.



## **RECEIVER -SPURIOUS RADIATIONS**

**SUBCLAUSE 5.4.3** 

Result PASS

Measuring Receiver Bandwidth: 120 kHz for test frequency within 30- 1000 MHz.

Spectrum Analyser Bandwidth: 1 MHz for test frequency above 1 GHz.

Operation mode of EUT:

**USB Dongle & Mouse:** 

Operating Mode			
Frequency Polarization (MHz)		Spurious Emissions Level (dBm/Hz)	
No	Peak	Found	

Remark: All spurious emissions detected are more than 20 dB below the limit line.

LIMITS EN 300440-1 Clause 8.2.3

Frequency Range	Limits
25-1000 MHz	2 nW / -57 dBm
Above 1000 MHz	20 nW / -47 dBm



# ADDITIONAL REQUIREMENTS FOR FHSS EQUIPMENT

### **FHSS MODULATION**

EN 300440-1 CLAUSE 7.5.1

Result N.A.

Explanation: This testing is for FHSS equipment.

## **NUMBER OF HOPPING CHANNELS**

#### Test result as below:

Frequency Range of EUT (MHz)	No. of Channel Hopping over > 90% of the Assigned Frequency Band	Requirement of Minimum No. of Channel
		≥ 20

Result data graph shows the number of hopping channels:

#### **CHANNEL SEPARATION**

The channel separation is xx MHz apart.

#### **CHANNEL BANDWIDTH**

Channel	Measured frequency	20dB Bandwidth
	(MHz)	(MHz)
Lowest		
Middle		
Highest		

#### **DWELL TIME**

Dwell time per channel	Limit
	≥ 1s

And, each channel of the hopping sequence is occupied \_\_\_\_\_ times during a period of (.)

## LIMITS

Each channel of the hopping sequence shall be occupied at least once during a period not exceeding four times the product of the dwell time per hop and the number of channels.



# RESTRICTIONS FOR HUMAN EXPOSURE TO EM FIELD EN 62479:2010

## HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

**SUBCLAUSE 4.1** 

Result PASS

Any device with the available antenna power and/or the average total radiated below 20mW is deemed to comply with the provisions of EN 62479 requirement without further conducting EMF assessment.

## **USB Dongle**

	Emitted Power Pmax (mW)
Average Total Radiated Power	0.31
Pmax Limit	20mW

#### Mouse

	Emitted Power Pmax (mW)
Average Total Radiated Power	0.39
Pmax Limit	20mW



#### **LIMITS** EN 62479 Table A.1

SAR-based *Pmax* for some cases described by ICNIRP, IEEE Std C95.1-1999 and IEEE Std C95.1-2005.

Guideline / Standard	SAR limit, SAR <sub>max</sub> W/kg	Averaging mass, m	$P_{max}$	Exposure tier*	Region of body
	2	10	20	General public	Head and trunk
IONIDD III	4	10	40	General public	Limbs
ICNIRP [1]	10	10	100	Occupational	Head and trunk
	20	10 200		Occupational	Limbs
	1,6	1	1,6	Uncontrolled environment	Head, trunk, arms, legs
IEEE Std C95.1-1999 [2]	4	10	40	Uncontrolled environment	Hands, wrists, feet and ankles
C90, 1-1999 [2]	8	1	8	Controlled environment	Head, trunk, arms, legs
	20	10	200	Controlled environment	Hands, wrists, feet and ankles
	2	10	20	Action level	Body except extremities and pinnae
IEEE Std C95.1-2005 [3]	4	10	40	Action level	Extremities and pinnae
030.1-2000 [0]	10	10	100	Controlled environment	Body except extremities and pinnae
	20	10	200	Controlled environment	Extremities and pinnae



**LIMITS** EN 62479 Table B.1

Some typical frequency bands of portable wireless devices and corresponding low-power exclusion levels *Pmax*'.

f	BW	Example air		P <sub>max</sub> mW			
GHz	%	interface	s = 5	s = 5 mm		s = 25 mm	
			m = 1 g	m = 10 g	m = 1 g	m = 10 g	
0,393	3,8	TETRA	97	292	265	526	
0,420	4,8	TETRA	98	293	274	541	
0,461	3,3	GSM	80	244	233	468	
0,485	14,4	APCO	117	337	347	660	
0,838	7,6	IDEN	48	148	198	399	
0,859	8,1	IS-136	47	145	198	398	
0,884	16,7	PDC	54	162	233	456	
0,896	5,7	TETRA	40	127	176	360	
0,918	4,8	iDEN	37	118	165	342	
0,925	7,6	GSM	41	129	185	375	
1,465	4,9	PDC	17	60	128	281	
1,795	9,5	GSM	13	50	139	308	
1,920	7,3	GSM	11	44	132	302	
2,045	12,2	UMTS	-11	44	146	330	
2,350	4,3	WiBro	7,9	34	130	323	
2,442	3,4	802.11b	7,3	32	130	328	
3,550	14,1	WiMAX	6,7	37	244	657	
5,250	3,8	WIMAX	6,8	53	258	845	
5,788	1,3	WiMAX	6,2	52	164	564	



# LIST OF TEST EQUIPEMENTS

Ref No.	Kind of Equipment	Manufacturer	Type	S/N	Due Date
01	Spectrum Analyzer	Agilent	E4440A	US41421290	Jul. 16 2015
02	EMI Test Receiver	Rohde & Schwarz	ESCI	100694	Jul. 16 2015
03	BiConiLog Antenna	A.H.System Inc	SAS-521-4	26	Jul. 16 2015
04	Horn Antenna	EM	EM-AH-10180	0607	Jul. 16 2015
05	Signal Generator	R&S	SML01	67	Jul. 16 2015
06	Signal Generator	HP	8920B	13215S1	Jul. 16 2015
07	3m Semi- Anechoic Chamber	N/A	9.0(L)*6.0(W)* 6.0(H)	N/A	Jun. 12 2015
08	Temperature and Humidity Chamber	XingBao	XB1212	N/A	Jan. 20 2015
09	DC Power Supply	LongTon	S12	1S3105	Jul. 16 2015
10	RF Amplifier	EM	EM30180	0607030	Jul. 16 2015

Subclause	Test Items	Test Equipment Items No.		
TRANSMITTER PARAMETER				
5.3.1	EQUIVALENT ISOTROPIC RADIATED POWER	01,02,03,04,05,06,07,08,09,10		
5.3.2	PERMITTED RANGE OF OPERATION FREQUENCIES	01,02,03,04,05,06,07		
5.3.3	UNWANTED EMIUSSIONS IN THE SPURIOUS DOMAIN	01,02,03,04,05,06,07,08,09,10		
RECEIVER PARAMETER				
5.4.1	ADJACENT CHANNEL SELECTIVITY	N/A		
5.4.2	BLOCKING OR DESENSITIZATION	N/A		
5.4.3	SPURIOUS RADIATIONS	01,02,03,04,05,06,07		



# **APPENIDX-PHOTOS OF EUT**

















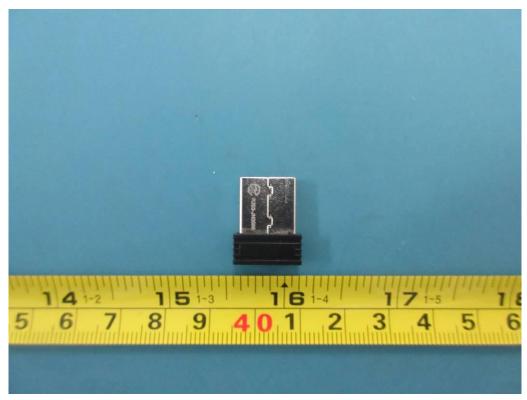




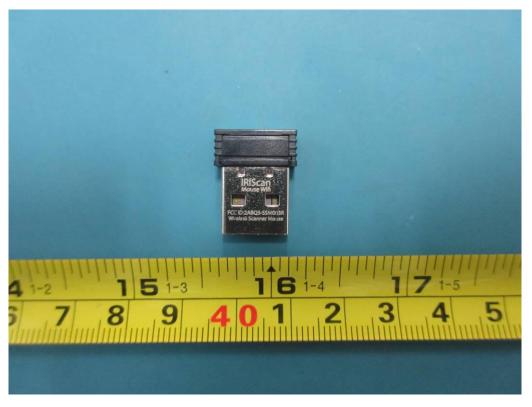
























Whole Part(System)











