



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AU0027290(9) Date : 16 May 2016

Application No. : LU011136(1)

Applicant : I-Rocks Technology Co., Ltd
12F, No.190, Sec. 2, Zhongxing Rd., Xindian Dist.,
New Taipei City 23146, Taiwan

Sample Description : One(1) item of submitted sample stated to be Wireless Keyboard
of Model No.

I-Rock No.	SKU No.
IRK45R	2604586

Sample registration No. : RU014410-001

Radio Frequency : 2408MHz – 2474MHz Transceiver

Rating : 2 x 1.5V AAA size batteries

No. of submitted sample : Two (2) set (s)

Date Received : 31 Mar 2016, 21 Apr 2016

Test Period : 05 Apr 2016 to 11 May 2016.

Test Requested : FCC Part 15 Certificate

Test Method : 47 CFR Part 15 (10-1-15 Edition)
ANSI C63.4 – 2014, ANSI C63.10 - 2013

Test Engineer : Mr. LEUNG Shu-kan, Ken

Test Result : See attached sheet(s) from page 2 to 27.

Conclusion : The submitted sample was found to comply with requirement of FCC Part 15
Subpart B and C.

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature :


Mr. WONG Lap-pong, Andrew
Manager
Electrical Division

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FCC ID: UJ91IRK45R



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1 General Information

1.1 General Description

The equipment under test (EUT) is a Wireless keyboard. The EUT is power by 2 x 1.5V AAA size batteries. It operates at 2408MHz – 2474MHz. It will connect with a dongle to control PC by wireless

The brief circuit description is listed as follows:

- U1 and its associated circuit act as MCU
- X1 and its associated circuit act as oscillator
- L2, C9, C10, C11 and its associated circuit act as control switch



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1.2 Location of the test site

FCC Registered Test Site Number: 552221

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 – 2013. A Semi-Anechoic Chamber Testing Site is set up for investigation and located at:

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
Fo Tan, Shatin,
New Territories,
Hong Kong.

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.10 – 2013. A shielded room is located at :

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
Fo Tan, Shatin,
New Territories,
Hong Kong.



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1.3 List of measuring equipment

Equipment	Manufacturer	Model No.	Serial No.	Calibration Due Date	Calibration Period
EMI Test Receiver	R&S	ESCI	100152	27 Sep 2016	1Year
Spectrum Analyzer	R&S	FSV40	100628	09 Feb 2017	1Year
Broadband Antenna	Schaffner	CBL6112B	2718	15 Mar 2017	2Years
Loop Antenna	EMCO	6502	00056620	25 Jan 2018	2Years
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-531	24 Nov 2016	2Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9718	9718-119	24 Nov 2016	2Years
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170442	02 Aug 2017	2Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9719	9719-010	02 Aug 2017	2Years
Coaxial Cable	Schaffner	RG 213/U	N/A	18 May 2016	1Years
Coaxial Cable	Suhner	RG 214/U	N/A	18 May 2016	1Years
Coaxial Cable	Suhner	Sucoflex_104	N/A	13 Dec 2016	1Years



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1.4 Measurement Uncertainty

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%.

Radiated emissions

Frequency	Uncertainty (U_{lab})
30MHz ~ 200MHz (Horizontal)	4.83dB
30MHz ~ 200MHz (Vertical)	4.84dB
200MHz ~ 1000MHz (Horizontal)	4.87dB
200MHz ~ 1000MHz (Vertical)	5.94dB
1GHz ~ 6GHz	4.41dB
6GHz ~ 18GHz	4.64dB

Conducted emissions

Frequency	Uncertainty (U_{lab})
150kHz~30MHz	2.64dB



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2 Description of the radiated emission test

2.1 Test Procedure

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 – 2013.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground for below 1GHz measurement and 1.5m high above the ground for above 1GHz measurement. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is placed 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1 m above the ground.

For 30MHz to 1GHz, broadband antenna with its vertical and horizontal plane is placed 3m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT. And the reference point of antenna shall be 1 m above the ground.

For above 1GHz, horn antenna with its vertical and horizontal plane is placed 3m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT. Preamplifier and High Pass filter was used for measurements. The reference point of antenna shall be 1 m above the ground.

The device was rotated through three orthogonal to determine which attitude and configuration produce the highest emission during measurement for Radiated Emission measurement.



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2.2 Test Result

Subpart C:

Peak Detector data were measured unless otherwise stated.

“#” means emissions appear within the restricted bands shall follow the requirement of section 15.205.

The frequencies from fundamental up to that tenth harmonics were investigated, and emissions more 20dB below limit were not reported. Thus, those highest emissions were presented in next page (section 2.3).

It was found that the EUT not meet the FCC requirement

Subpart B:

Quasi-Peak Detector data were measured unless otherwise stated.

“#” means emissions appear within the restricted bands shall follow the requirement of section 15.205.

The emissions meet the requirement of section 15.109 are based on measurements employing the CISPR quasi-peak detector below 1000MHz and average detector for frequencies above 1000MHz.

The frequencies from 30MHz to 1000MHz were investigated, and emissions more 20dB below limit were not reported. Thus, those highest emissions were presented in next page (section 2.3).

It was found that the EUT meet the FCC requirement.



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2.3 Radiated Emission Measurement Data

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart C

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	26	° C
Relative humidity:	63	%

Measurement: Peak RBW: 1MHz VBW: 3MHz Operation mode: Transmission

Testing frequency range: 9kHz to 25GHz

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dBμV)	Transducer Factor (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
2407.550	H	92.9	- 4.2	88.7	114.0	- 25.3
7225.551	H	41.6	11.5	53.1	74.0	- 20.9
7225.556	V	42.9	11.5	54.4	74.0	- 19.6
9634.077	V	38.0	14.6	52.6	74.0	- 21.4

2440.554	H	93.3	- 4.2	89.1	114.0	- 24.9
#7318.474	V	45.5	11.5	56.0	74.0	- 18.0
#7321.407	H	42.4	11.5	53.9	74.0	- 20.1
9762.046	V	39.8	14.6	54.4	74.0	- 19.6

2473.525	H	94.8	- 4.3	90.5	114.0	- 23.5
#7423.491	H	45.7	11.5	57.2	74.0	- 16.8
#7423.644	V	44.8	11.5	56.3	74.0	- 17.7
9894.112	V	40.3	14.6	54.9	74.0	- 19.1

Remark: Other emissions more than 20dB below the limit are not reported.



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2.3 Radiated Emission Measurement Data (Con't)

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart C

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	26	° C
Relative humidity:	63	%

Measurement: Average RBW: 1MHz VBW: 10Hz Operation mode: Transmission

Testing frequency range: 9kHz to 25GHz

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dBμV)	Transducer Factor (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
2408.000	H	89.7	- 4.2	85.5	94.0	- 8.5
7225.427	H	31.5	11.5	43.0	54.0	- 11.0
7225.441	V	33.4	11.5	44.9	54.0	- 9.1
9634.007	V	27.4	14.6	42.0	54.0	- 12.0

2440.000	H	90.1	- 4.2	85.9	94.0	- 8.1
#7321.447	H	31.9	11.5	43.4	54.0	- 10.6
#7321.466	V	35.6	11.5	47.1	54.0	- 6.9
9761.977	V	29.8	14.6	44.4	54.0	- 9.6

2474.004	H	91.6	- 4.3	87.3	94.0	- 6.7
#7423.462	H	36.5	11.5	48.0	54.0	- 6.0
#7423.484	V	35.9	11.5	47.4	54.0	- 6.6
9897.958	V	28.7	14.6	43.3	54.0	- 10.7

Remark: Other emissions more than 20dB below the limit are not reported.



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2.3 Radiated Emission Measurement Data (Con't)

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart C

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	26	° C
Relative humidity:	63	%

Detector: Quasi-peak

RBW: 120kHz

VBW: 300kHz

Testing frequency range: 9kHz to 25GHz

Operation mode: Transmission

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dBμV)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
191.994	H	22.5	11.2	33.7	43.5	- 9.8
203.984	H	16.7	12.0	28.7	43.5	- 14.8
215.991	H	22.3	12.0	34.3	46.5	- 9.2
227.997	H	17.6	11.8	29.4	46.0	- 16.6
239.998	H	19.9	13.2	33.1	46.0	- 12.9
#251.996	H	14.3	15.4	29.7	46.0	- 16.3
287.999	H	14.0	15.4	29.4	46.0	- 16.6

Remark: Other emissions more than 20dB below the limit are not reported.



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2.3 Radiated Emission Measurement Data (Con't)

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart B

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	26	° C
Relative humidity:	63	%

Detector: Quasi-peak

RBW: 120kHz

VBW: 300kHz

Testing frequency range: 9kHz to 25GHz

Operation mode: Receiving

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dBμV)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
192.002	H	22.6	11.2	33.8	43.5	- 9.7
204.011	H	16.9	12.0	28.9	43.5	- 14.6
216.009	H	22.5	11.8	34.3	46.0	- 11.7
228.018	H	17.3	11.8	29.1	46.0	- 16.9
239.998	H	19.8	13.2	33.0	46.0	- 13.0
#251.984	H	14.0	15.4	29.4	46.0	- 16.6
288.006	H	14.0	15.4	29.4	46.0	- 16.6

Remark: Other emissions more than 20dB below the limit are not reported.



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3 Description of the Line-conducted Test

3.1 Test Procedure

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.10 – 2013. The EUT was setup as described in the procedures, and both lines were measured.

3.2 Test Result

No measurement is required as the EUT is a battery-operated product.

3.3 Graph and Table of Conducted Emission Measurement Data

Not Applicable



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4 Photograph

4.1 Photographs of the Test Setup for Radiated Emission and Conducted Emission

For electronic filing, the photos are saved with filename UJ9IRK45R TSup.pdf.

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename UJ9IRK45R ExPho.pdf and UJ9IRK45R InPho.pdf.



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5 Supplementary document

The following document were submitted by applicant, and for electronic filing, the document are saved with the following filenames:

Document	Filename
ID Label/Location	LabelSmp.jpg
Block Diagram	BlkDia.pdf
Schematic Diagram	Schem.pdf
Users Manual	UserMan.pdf
Operational Description	OpDes.pdf

5.1 Bandwidth

The plot in Appendices A7 shows the fundamental emission is confined in the specified band. It shows the 20dB bandwidth met the 15.215 requirement for frequency band 2400 to 2483.5 MHz.

The plot in Appendices A6 shows the band edge is fulfil 15.209 requirement.

5.2 EUT Antenna

Appendices A4 shows the antenna is permanently attached and cannot be changed. Therefore it fulfils the section 15.203 requirement.



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6 Appendices

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A2	Photos of External Configurations	1	page
A3	Photos of Internal Configurations	1	page
A4	EUT Antenna	1	page
A5	ID Label/Location	1	page
A6	Band Edge	2	pages
A7	20dB Bandwidth Plot	2	pages



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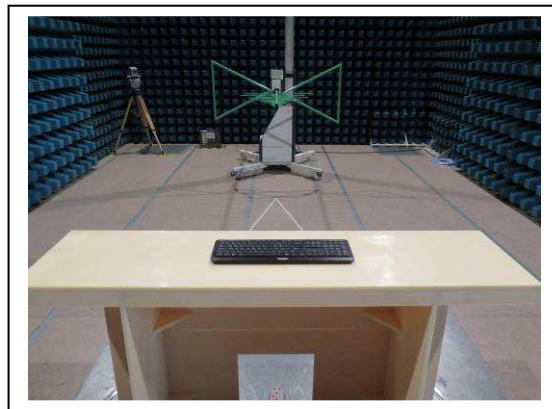
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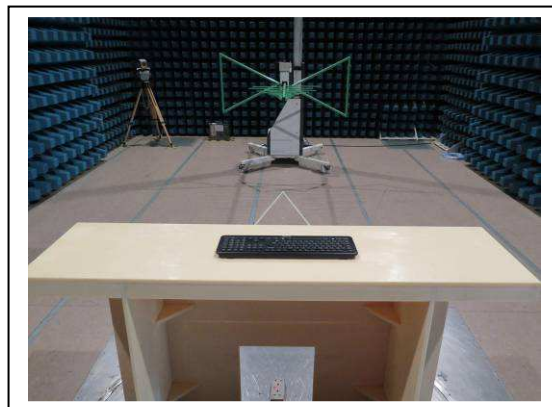
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A1. Photos of the set-up of Radiated Emissions



(Front view, 30MHz – 1GHz)



(Back view, 30MHz – 1GHz)

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



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Report No. : AU0027290(9)

Date : 16 May 2016

A1. Photos of the set-up of Radiated Emissions



(Front view, 9KHz – 30MHz)



(Back view, 9KHz – 30MHz)

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



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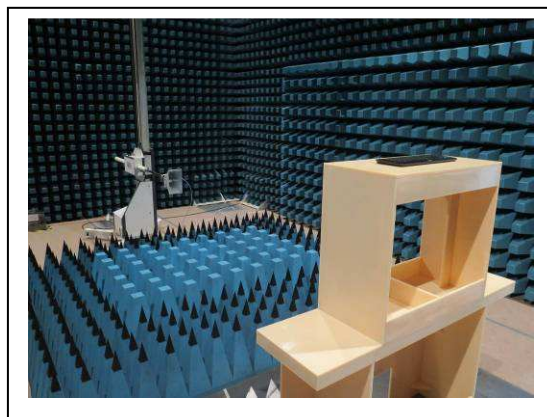
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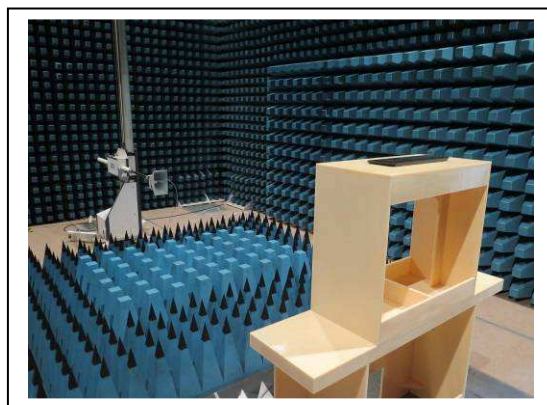
Report No. : AU0027290(9)

Date : 16 May 2016

A1. Photos of the set-up of Radiated Emissions



(front view, 1GHz – 25GHz)



(rear view, 1GHz – 25GHz)

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



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A2. Photos of External Configuration



External Configuration 1



External Configuration 2

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



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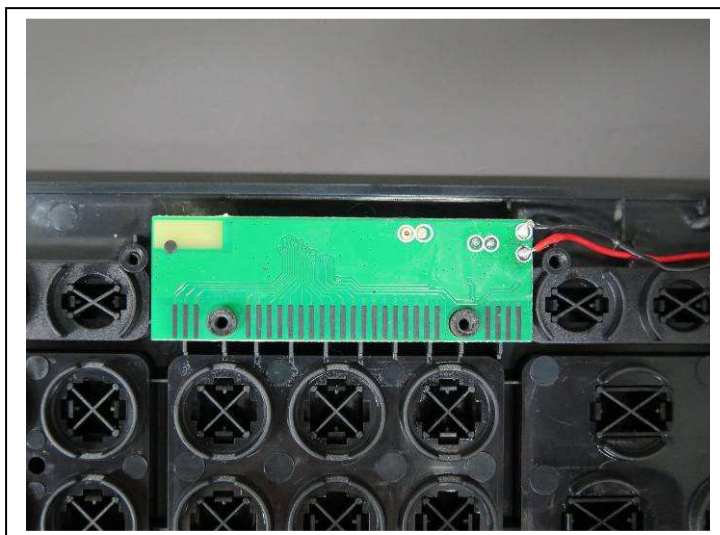
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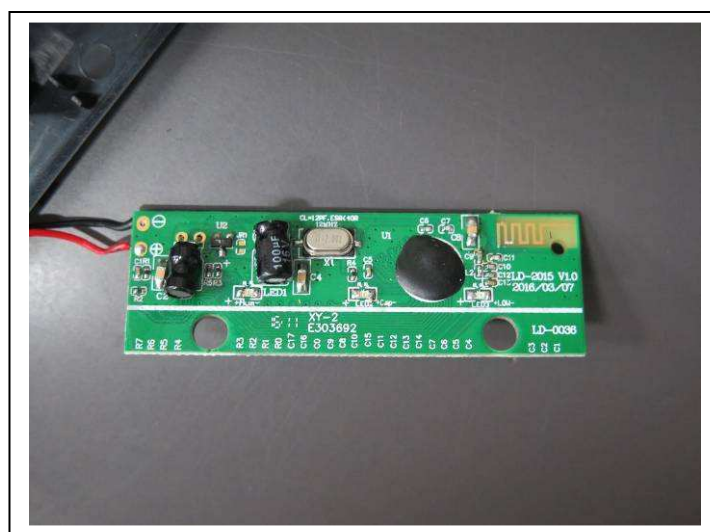
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A3. Photos of Internal Configuration



Internal Configuration 1



Internal Configuration 2

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



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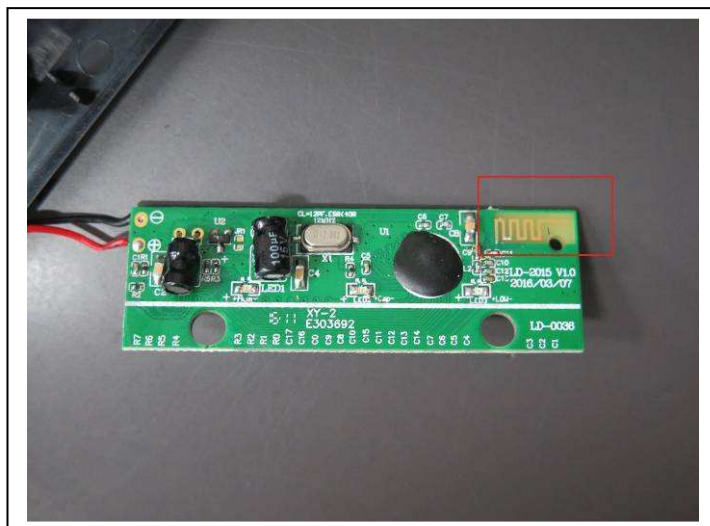
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A4. EUT Antenna



Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



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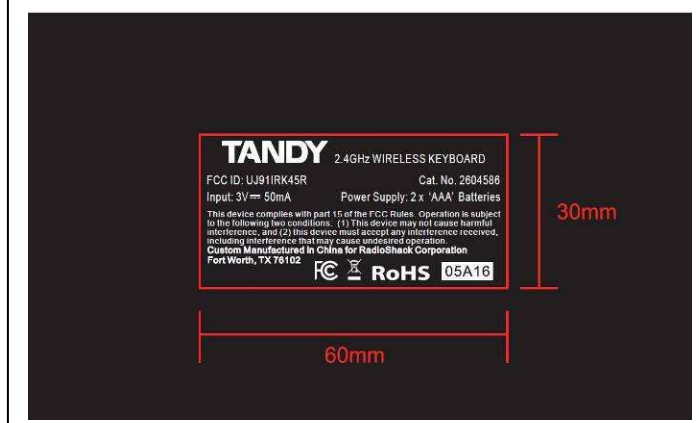
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A5. ID Label/Location



ID Label 1

RF201 Wireless Keyboard lable
80g銅板紙背膠上霧P(黑底白字)



ID Label 2

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

FCC ID: UJ91IRK45R



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Spectrum **Spectrum 2** X ▼

Ref Level 107.00 dBμV/m
 Att 10 dB
 RBW (CISPR) 1 MHz
 SWT 100 ms
 VBW 3 MHz
 Mode Auto Sweep

TDF
 1Pk Max

100 dBμV/m
 90 dBμV/m
 80 dBμV/m
 70 dBμV/m
 60 dBμV/m
 50 dBμV/m
 40 dBμV/m
 30 dBμV/m
 20 dBμV/m
 10 dBμV/m

M3[1]
 55.80 dBμV/m
 2.395860 GHz
 M1[1]
 88.72 dBμV/m
 2.408550 GHz
 M2
 55.80 dBμV/m
 2.408550 GHz

Start 2.31 GHz
 1001 pts
 Stop 2.41 GHz

Marker

Type	Ref	Trc	Stimulus	Response	Function	Function Result
M1	1	1	2.40855 GHz	88.72 dBμV/m		
M2	1	1	2.4 GHz	46.59 dBμV/m		
M3	1	1	2.39586 GHz	55.80 dBμV/m		

Measuring... ▶▶

Spectrum **Spectrum 2** ▶

Ref Level 107.00 dBμV/m RBW (CISPR) 1 MHz
 Att 10 dB SWT 100 s VBW 10 Hz Mode Auto Sweep
 TDF

● 1Pk Max

The spectrum analyzer shows a signal with three markers. The y-axis represents power density in dBμV/m, ranging from 10 to 100. The x-axis represents frequency in GHz, ranging from 2.31 to 2.41. The signal is relatively flat until approximately 2.39 GHz, where it begins to rise, showing several peaks. The three markers are placed at the following frequencies and power levels:

Marker	Frequency (GHz)	Power (dBμV/m)
M1	2.408	85.50
M2	2.4	36.01
M3	2.39586	50.74

Start 2.31 GHz 1001 pts Stop 2.41 GHz

Marker

Type	Ref	Trc	Stimulus	Response	Function	Function Result
M1	1	1	2.408 GHz	85.50 dBμV/m		
M2	1	1	2.4 GHz	36.01 dBμV/m		
M3	1	1	2.39586 GHz	50.74 dBμV/m		

Measuring... ▶

Tested by:

Reviewed by:

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Spectrum **Spectrum 2** x ⏏

Ref Level 107.00 dBμV/m ● RBW (CISPR) 1 MHz

Att 10 dB ● SWT 100 ms ● VBW 3 MHz **Mode** Auto Sweep

TDF

● IPk Max

100 dBμV/m

90 dBμV/m M1

80 dBμV/m

70 dBμV/m

60 dBμV/m

50 dBμV/m M2

40 dBμV/m

30 dBμV/m

20 dBμV/m

10 dBμV/m

Start 2.47 GHz 1001 pts Stop 2.5 GHz

M2[1] 49.30 dBμV/m
M1[1] 2.4835000 GHz
90.64 dBμV/m
2.4745700 GHz

Measuring... ⏏

Spectrum 2

Ref Level 107.00 dBμV/m
 Att 10 dB
 TDF
 RBW (CISPR) 1 MHz
 SWT 100 s
 VBW 10 Hz
 Mode Auto Sweep

1Pk Max

M1 100 dBμV/m
 M2[1] 37.03 dBμV/m
 M1[1] 2.4835008 GHz
 87.37 dBμV/m
 2.4740310 GHz

Start 2.47 GHz 1001 pts Stop 2.5 GHz

Measuring...

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



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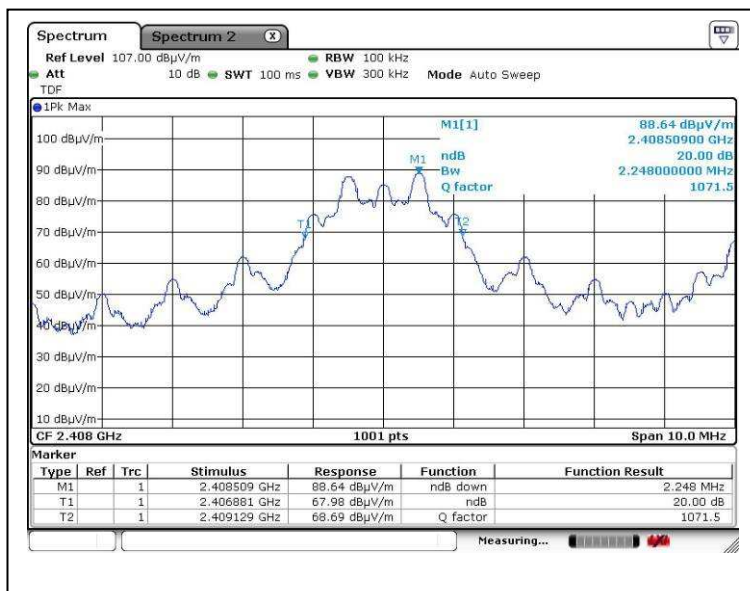
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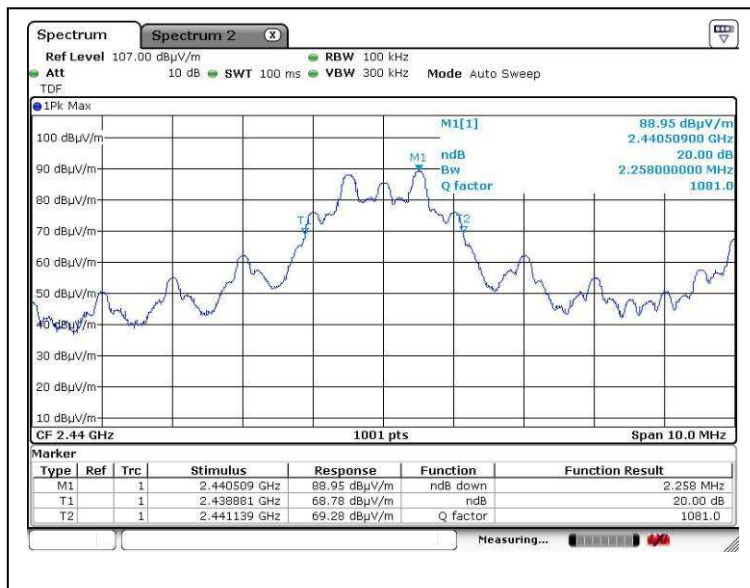
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A7. 20dB Bandwidth Plot



Bandwidth 1 (2408MHz)



Bandwidth 2 (2440MHz)

Tested by:

Ken

Mr. LEUNG Shu-kan, Ken

Reviewed by:

PR

Mr. WONG Lap-pong, Andrew



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Date : 16 May 2016

Spectrum **Spectrum 2** ▼

Ref Level 107.00 dBμV/m RBW 100 kHz
 Att 10 dB SWT 100 ms VBW 300 kHz Mode Auto Sweep
 TDF

1Pk Max

100 dBμV/m
 90 dBμV/m
 80 dBμV/m
 70 dBμV/m
 60 dBμV/m
 50 dBμV/m
 40 dBμV/m
 30 dBμV/m
 20 dBμV/m
 10 dBμV/m

CF 2.474 GHz 1001 pts Span 10.0 MHz

Marker

Type	Ref	Trc	Stimulus	Response	Function	Function Result
M1	1		2.474509 GHz	90.48 dBμV/m	ndB down	2.278 MHz
T1	1		2.472871 GHz	69.98 dBμV/m	ndB	20.00 dB
T2	1		2.475149 GHz	69.97 dBμV/m	Q factor	1086.4
M2	1		2.479 GHz	69.56 dBμV/m		

90.48 dBμV/m
 2.47450900 GHz
 20.00 dB
 2.278000000 MHz
 1086.4
 69.56 dBμV/m
 2.47900000 GHz

ndB
 Bw
 Q factor
 M1[1]
 M2[1]

***** End of Report *****

Pen

PR.

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