CMA Testing and Certification Laboratories
廠商會檢定中心

TEST REPORT

Report No.	:	AR0069992(2)	Date :	13 Dec 2013
Application No.	:	LR045392(1)		
Applicant	:	Raytac Corporation 5F., No.3, Jiankang Road, Zhonghe District, Taipei City, 23586, Taiwan		
Sample Description	:	One(1) item of submitted sample stated to be Wireless Presenter of Model No. 2603766 Sample registration No. : RR049933-001 Radio Frequency : 2403MHz – 2474 MHz Receiver Rating : 2 x 1.5V AA size batteries No. of submitted sample : One (2) piece (s)		
Date Received	:	09 Dec 2013		
Test Period	:	09 Dec 2013 to 16 Dec 2013.		
Test Requested	:	FCC Part 15 Certificate		
Test Method	:	47 CFR Part 15 (10-1-12 Edition), ANSI C63. 4 – 2009		
Test Engineer	:	Mr. LEUNG Shu-kan, Ken		
Test Result	:	See attached sheet(s) from page 2 to 31.		
Conclusion	:	The submitted sample was found to comply with requirement of FCC Part 15 Subpart C.		

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature : _____

Mr. WONG Lap-pong, Andrew
Assistant Manager
Electrical Division

FCC ID: SH6MP01R

CMA Industrial Development Foundation Limited
Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St., Fo Tan, Shatin, N.T., Hong Kong.
Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatcl.com Web Site: http://www.cmatcl.com

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1 General Information

1.1 General Description

The equipment under test (EUT) is a receiver for presenter. The EUT is power by USB 5V. It will receive radio signal from transmitter for presentation. Then the receiver will send an ACK signal at 2435MHz.

The brief circuit description is listed as follows:

- U1 and its associated circuit act as RF circuit
- X1 and its associated circuit act as Oscillator
- U2 and its associated circuit act as Decoder

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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 C63.4 – 2009. 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 C63.4 – 2009. A shielded room is located at :

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
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New Territories,
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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	08 Jul 2014	1Year
Spectrum Analyzer	R&S	FSP30	100628	15 Aug 2014	1Year
Broadband Antenna	Schaffner	CBL6112B	2718	06 Jan 2015	1Year
Loop Antenna	EMCO	6502	00056620	28 Oct 2015	1Year
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-531	04 Oct 2014	1Year
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170442	18 Jun 2015	2Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9718	9718-119	09 Oct 2014	1Year
Broadband Pre-Amplifier	Schwarzbeck	BBV 9719	9719-010	17 Jun 2015	2Years
Coaxial Cable	Schaffner	RG 213/U	N/A	06 Jan 2015	1Year
Coaxial Cable	Suhner	RG 214/U	N/A	06 Jan 2015	1Year
Coaxial Cable	Suhner	Sucoflex_102	N/A	09 Oct 2014	1Year
LISN	R&S	ENV216	101232	21 Oct 2014	1Year
Coaxial Cable	Tyco	RG58C/U	N/A	11 Nov 2014	1 Year

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Support Equipment (Supplied by CMA):

1. Intel CPU P4 2.8GHz / 512k cache / 533MHz bus
   Model: 9426A657

2. Intel Mother Board
   Model: Intel Type: D845EPI/D845GVSR

3. Seagate Hard-disk
   Model: ST380011A, 80GB

4. Proview LCD Monitor
   Model: 568

5. Logitech Mouse
   Model: M-S34

6. Hewlett Packard Keyboard
   Model: SK-2502C

7. Hewlett Packard LaserJet 2100TN
   Model: C4172A

8. PenPower Handwriting System
   Model: PP403N

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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)	4.66dB
200MHz ~1000MHz (Vertical)	4.65dB

Conducted emissions

Frequency	Uncertainty (U_{lab})
150kHz~30MHz	3.02dB

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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 C63.4 – 2009.

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. 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

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 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:	23	° C
Relative humidity:	52	%

Detector: Quasi-peak
RBW: 120kHz
VBW: 300kHz
Testing frequency range: 9kHz to 25GHz

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)
36.001	H	11.2	18.7	29.9	40.0	- 10.1
229.621	H	18.7	11.8	30.5	46.0	- 12.5
262.463	H	14.5	15.4	29.9	46.0	- 16.1
390.143	H	15.8	16.8	32.6	46.0	- 13.4
395.384	H	10.7	16.8	27.5	46.0	- 18.5
495.205	H	8.7	20.6	29.3	46.0	- 16.7
570.863	H	7.8	22.2	30.0	46.0	- 16.0

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

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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:	23	° C
Relative humidity:	52	%

Detector: Peak RBW: 1MHz VBW: 3MHz
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)
2435.000	H	97.9	- 6.3	91.6	114.0	- 22.4
#4870.000	H	51.0	2.4	53.4	74.0	- 20.6
#4870.000	V	47.1	2.4	49.5	74.0	- 24.5
#7304.987	V	44.7	10.8	55.5	74.0	- 18.5

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

Detector: Average RBW: 1MHz VBW: 10Hz
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)
2435.000	H	52.1	- 6.3	45.8	94.0	- 48.2
#4870.000	V	31.1	2.4	33.5	54.0	- 20.5
#4870.006	H	31.2	2.4	33.6	54.0	- 20.4
#7305.002	V	30.1	10.8	40.9	54.0	- 13.1

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 C63.4 – 2009. The EUT was setup as described in the procedures, and both lines were measured.

3.2 Test Result

The PC connected mode has been tested. The EUT is receiving radio signal from transmitter.

It was found that the EUT met the FCC requirement.

3.3 Graph and Table of Conducted Emission Measurement Data

For electronic filling, the document is saved with filename TestRpt2.pdf.

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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 TSup1.jpg to TSup9.jpg.

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename ExPho1.jpg to ExPho2.jpg and InPho1.jpg to InPho2.jpg.

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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 saved in TestRpt3.pdf 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.

5.2 Duty cycle

Not Applicable

5.3 Transmission time

Not Applicable

5.4 Power Spectral Density

Not Applicable

5.5 Average on time

Not Applicable

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6 Appendices

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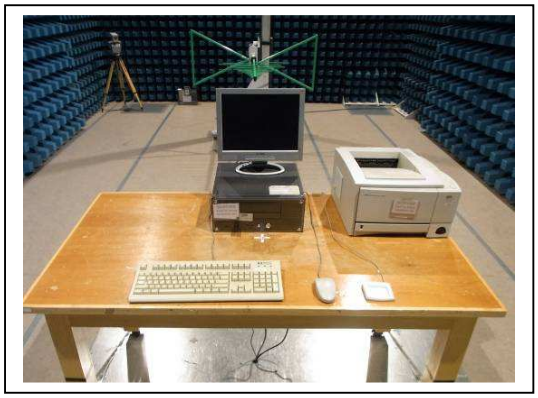
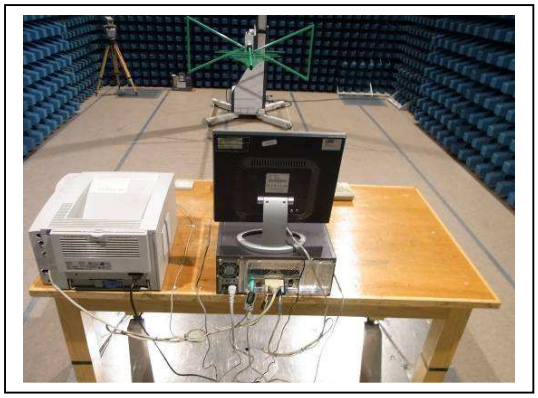
A1. Photos of the set-up of Radiated Emissions



(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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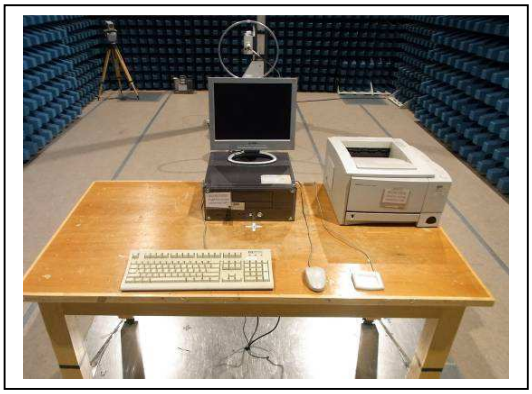
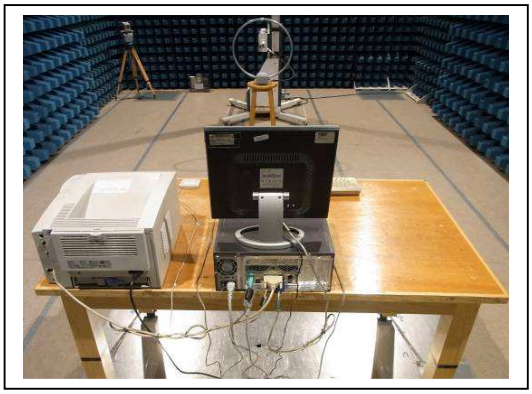
A1. Photos of the set-up of Radiated Emissions



(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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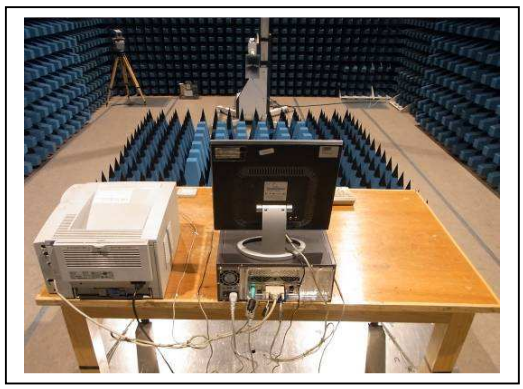
A1. Photos of the set-up of Radiated Emissions

(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 the set-up of Conducted Emission

(front view)

(rear view)

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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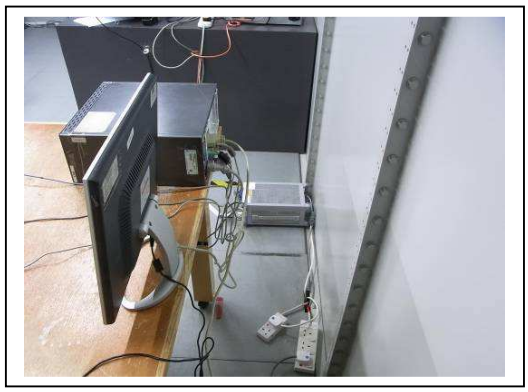
Photos of the set-up of Conducted Emission



(side view)

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

FCC ID: SH6MP01R

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A3 Photos of External Configurations

(External Configuration 1)

(External Configuration 2)

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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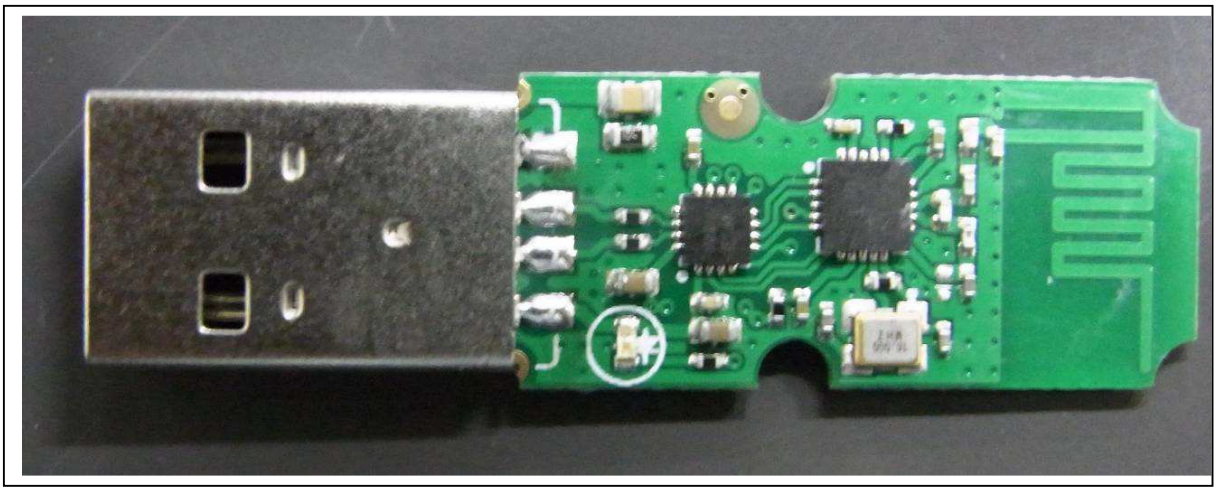
A4. Photos of Internal Configurations



Internal Configuration 1

Internal Configuration 2

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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A5. ID Label / Location

ID Label 1

ID Label 2

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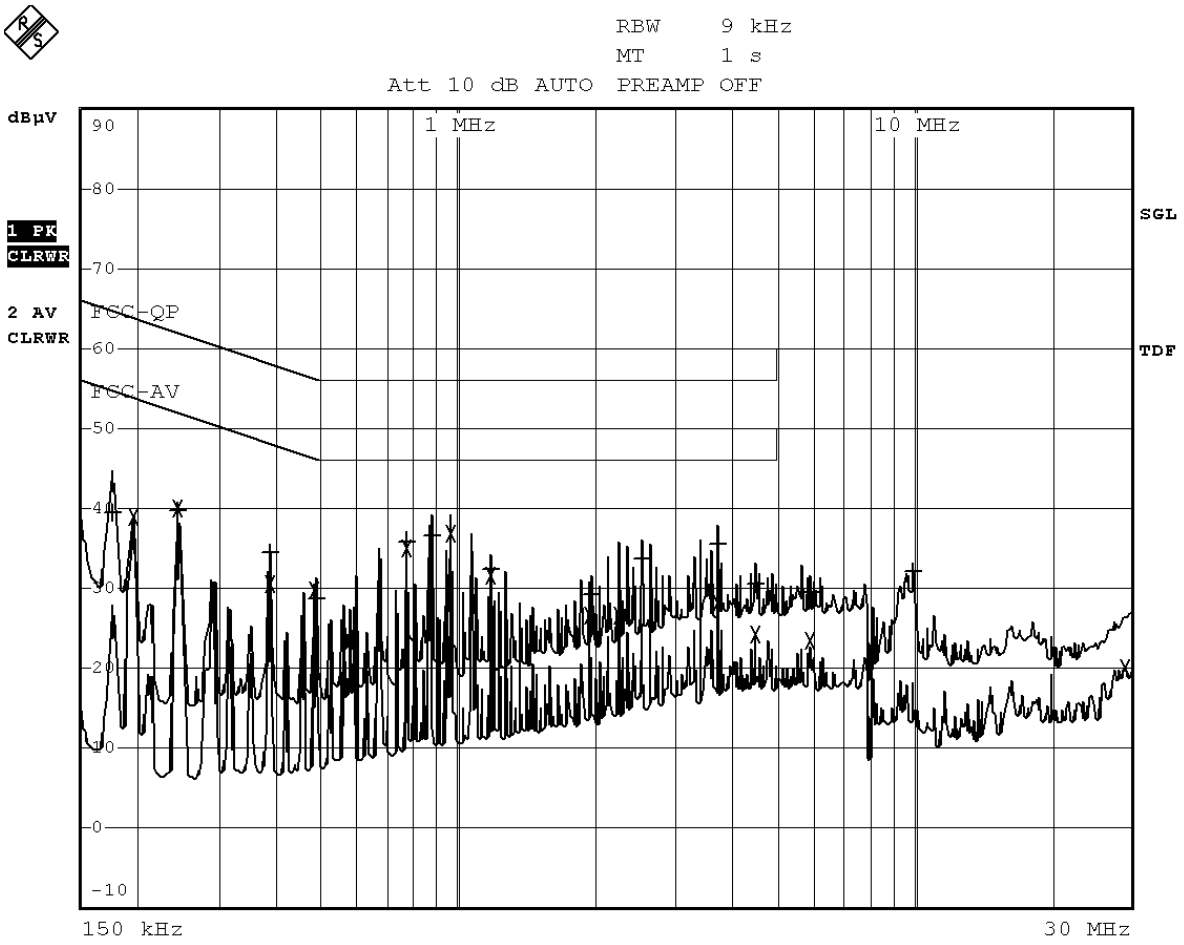
A6 Conducted Emission Measurement Date



Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

FCC ID: SH6MP01R

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A6 Conducted Emission Measurement Date

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC-QP		
Trace2:	FCC-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
1 Quasi Peak	175 kHz	39.51 L1 gnd	-25.20
2 Average	195 kHz	38.92 N gnd	-14.89
1 Quasi Peak	245 kHz	39.81 N gnd	-22.11
2 Average	245 kHz	39.95 N gnd	-11.97
1 Quasi Peak	390 kHz	34.54 N gnd	-23.51
2 Average	390 kHz	30.44 N gnd	-17.62
2 Average	485 kHz	29.78 N gnd	-16.46
1 Quasi Peak	490 kHz	28.67 N gnd	-27.49
1 Quasi Peak	780 kHz	35.77 L1 gnd	-20.22
2 Average	780 kHz	35.05 L1 gnd	-10.94
1 Quasi Peak	880 kHz	36.71 N gnd	-19.28
2 Average	975 kHz	36.77 L1 gnd	-9.22
1 Quasi Peak	1.17 MHz	32.38 N gnd	-23.61
2 Average	1.17 MHz	31.50 N gnd	-14.49
2 Average	1.94 MHz	26.63 N gnd	-19.36
1 Quasi Peak	1.95 MHz	29.22 L1 gnd	-26.77
2 Average	2.24 MHz	26.62 L1 gnd	-19.37
1 Quasi Peak	2.53 MHz	33.78 L1 gnd	-22.21
1 Quasi Peak	3.7 MHz	35.48 L1 gnd	-20.51
2 Average	3.7 MHz	28.07 N gnd	-17.92

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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A6 Conducted Emission Measurement Date

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC-QP		
Trace2:	FCC-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
1 Quasi Peak	4.48 MHz	30.58 L1 gnd	-25.41
2 Average	4.48 MHz	24.34 L1 gnd	-21.65
1 Quasi Peak	5.94 MHz	29.54 L1 gnd	-30.45
2 Average	5.94 MHz	23.35 L1 gnd	-26.65
1 Quasi Peak	9.93 MHz	32.07 N gnd	-27.93
2 Average	28.97 MHz	20.06 L1 gnd	-29.93

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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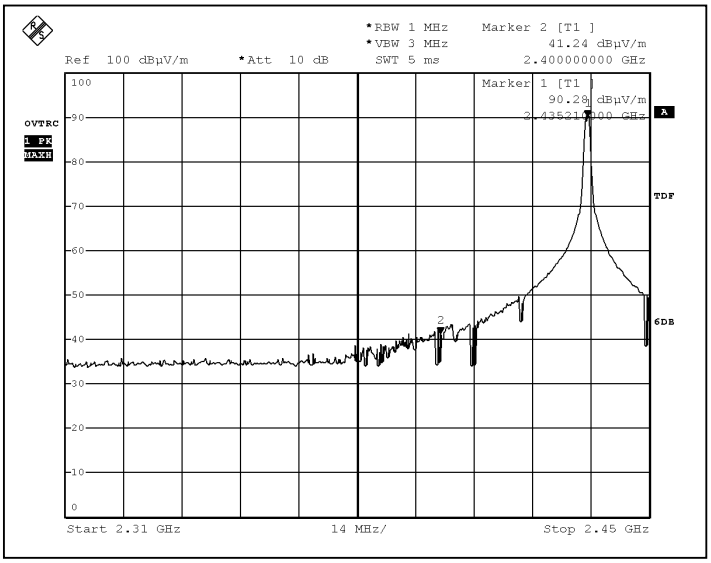
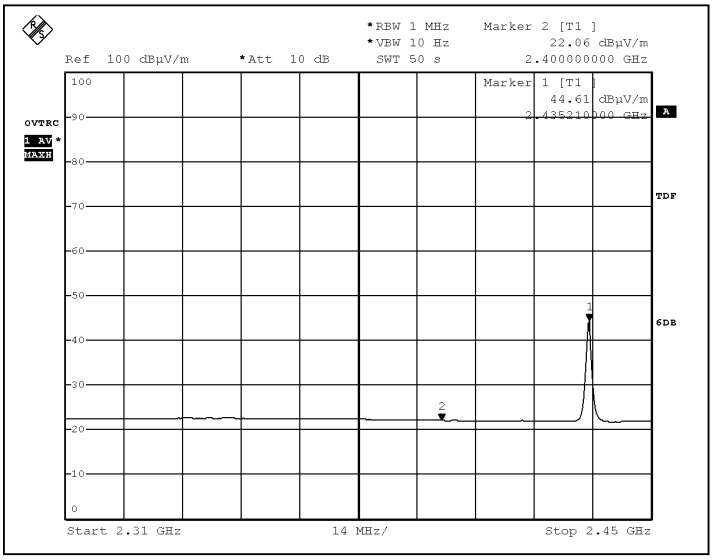
A7. Band Edge



Lower Band (Peak measurement)



Lower Band (Average measurement)

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

CMA Industrial Development Foundation Limited
Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St., Fo Tan, Shatin, N.T., Hong Kong.
Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatcl.com Web Site: http://www.cmatcl.com

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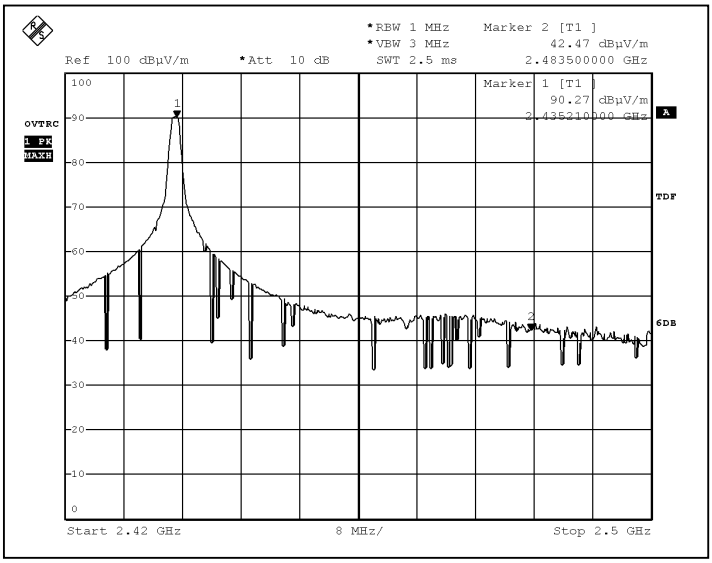
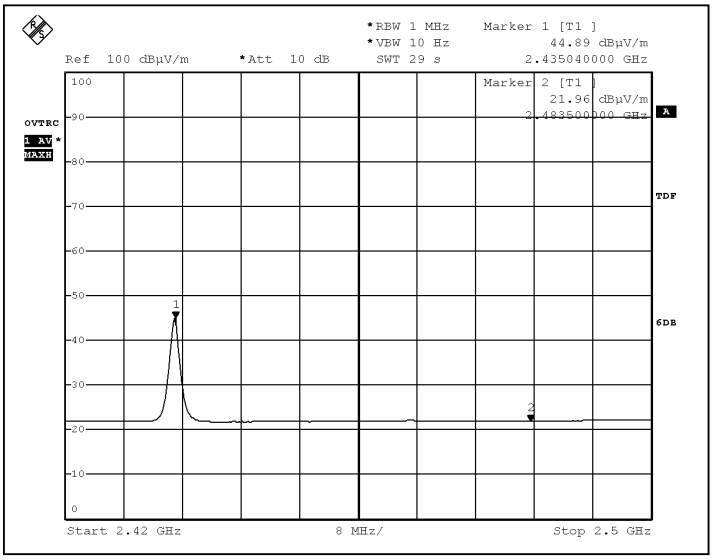


Higher Band (Peak measurement)



Higher Band (Average measurement)

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A8. User Manual

2603766
User's Guide

radioshack

Wireless Presenter

We hope you enjoy your Wireless Presenter from RadioShack. Please read this user's guide before using your new presenter.

Package Contents

- Wireless Presenter
- USB Receiver
- Carrying Case
- User's Guide

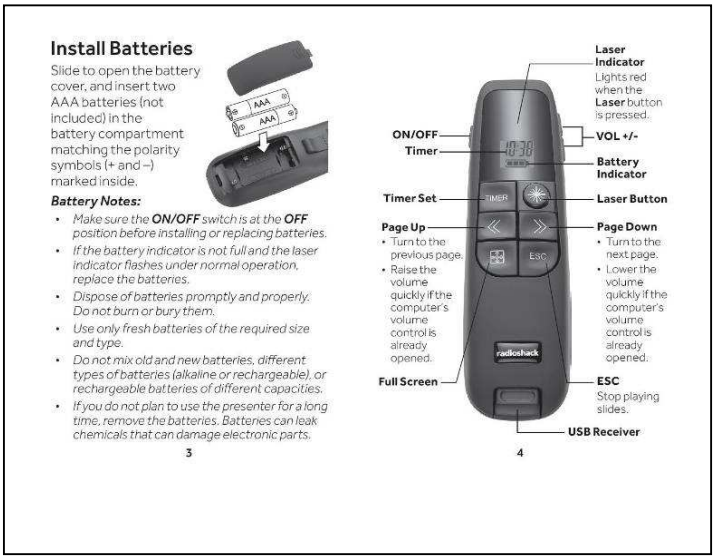
Features

- 2.4GHz wireless connection allows you to move freely while presenting
- Red laser pointer works up to 65 feet (20m) away
- The multifunction LCD screen includes a timer vibration feature and low-battery indicator

System Compatibility

- Windows® 8/ Windows 7
- Windows Vista®
- Windows XP

2



Install Batteries

Slide to open the battery cover, and insert two AAA batteries (not included) in the battery compartment matching the polarity symbols (+ and –) marked inside.

Battery Notes:

- *Make sure the **ON/OFF** switch is at the **OFF** position before installing or replacing batteries.*
- *If the battery indicator is not full and the laser indicator flashes under normal operation, replace the batteries.*
- *Dispose of batteries promptly and properly. Do not burn or bury them.*
- *Use only fresh batteries of the required size and type.*
- *Do not mix old and new batteries, different types of batteries (alkaline or rechargeable), or rechargeable batteries of different capacities.*
- *If you do not plan to use the presenter for a long time, remove the batteries. Batteries can leak chemicals that can damage electronic parts.*

3

Laser Indicator Lights red when the **Laser** button is pressed.

ON/OFF

Timer

VOL +/-

Battery Indicator

Timer Set

Laser Button

Page Up
- Turn to the previous page.
- Raise the volume quickly if the computer's volume control is already opened.

Page Down
- Turn to the next page.
- Lower the volume quickly if the computer's volume control is already opened.

Full Screen

ESC Stop playing slides.

USB Receiver

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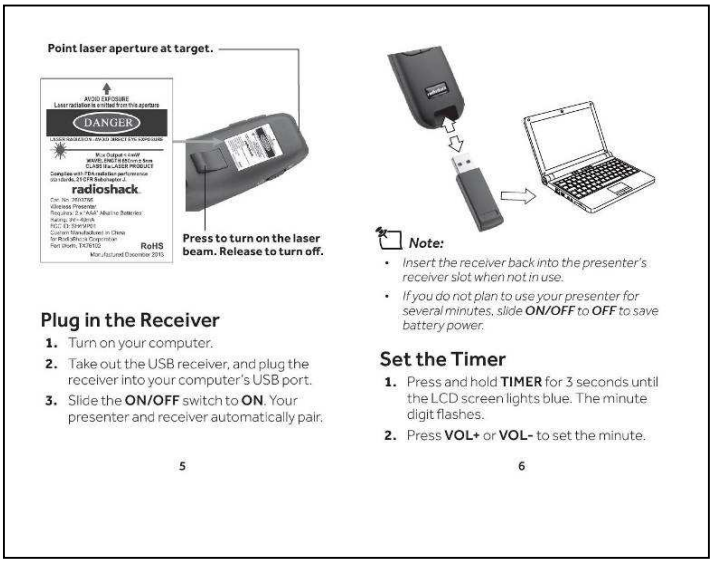
A8. User Manual



Point laser aperture at target.

AVOID EXPOSURE
Laser radiation is emitted from this aperture
DANGER
CLASS IIIa LASER PRODUCT
radioshack.
RoHS
Manufactured December 2013

Press to turn on the laser beam. Release to turn off.

Plug in the Receiver

1. Turn on your computer.
2. Take out the USB receiver, and plug the receiver into your computer's USB port.
3. Slide the **ON/OFF** switch to **ON**. Your presenter and receiver automatically pair.

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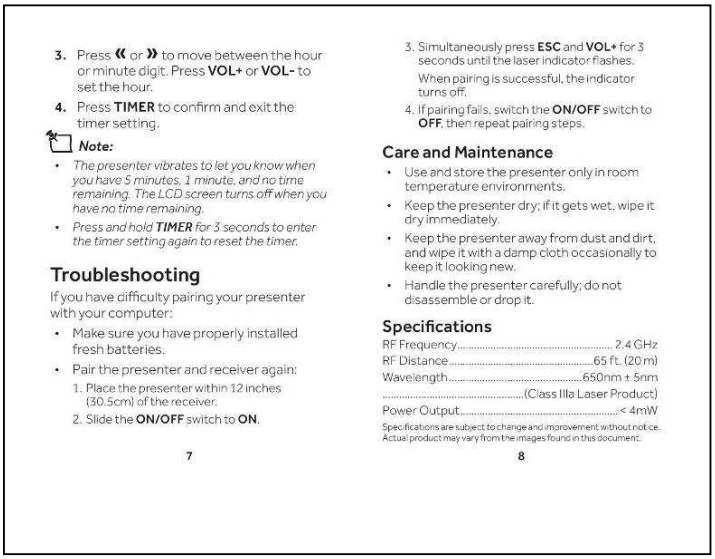
Note:

- *Insert the receiver back into the presenter's receiver slot when not in use.*
- *If you do not plan to use your presenter for several minutes, slide **ON/OFF** to **OFF** to save battery power.*

Set the Timer

1. Press and hold **TIMER** for 3 seconds until the LCD screen lights blue. The minute digit flashes.
2. Press **VOL+** or **VOL-** to set the minute.

6



3. Press « or » to move between the hour or minute digit. Press **VOL+** or **VOL-** to set the hour.
4. Press **TIMER** to confirm and exit the timer setting.

Note:

- *The presenter vibrates to let you know when you have 5 minutes, 1 minute, and no time remaining. The LCD screen turns off when you have no time remaining.*
- *Press and hold **TIMER** for 3 seconds to enter the timer setting again to reset the timer.*

Troubleshooting

If you have difficulty pairing your presenter with your computer:

- Make sure you have properly installed fresh batteries.
- Pair the presenter and receiver again:
  1. Place the presenter within 12 inches (30.5cm) of the receiver.
  2. Slide the **ON/OFF** switch to **ON**.
  3. Simultaneously press **ESC** and **VOL+** for 3 seconds until the laser indicator flashes.
     When pairing is successful, the indicator turns off.
  4. If pairing fails, switch the **ON/OFF** switch to **OFF**, then repeat pairing steps.

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Care and Maintenance

- Use and store the presenter only in room temperature environments.
- Keep the presenter dry; if it gets wet, wipe it dry immediately.
- Keep the presenter away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.
- Handle the presenter carefully; do not disassemble or drop it.

Specifications

RF Frequency ..... 2.4 GHz
RF Distance ..... 65 ft. (20 m)
Wavelength ..... 650nm ± 5nm
..... (Class IIIa Laser Product)
Power Output ..... < 4mW

Specifications are subject to change and improvement without notice.
Actual product may vary from the images found in this document.

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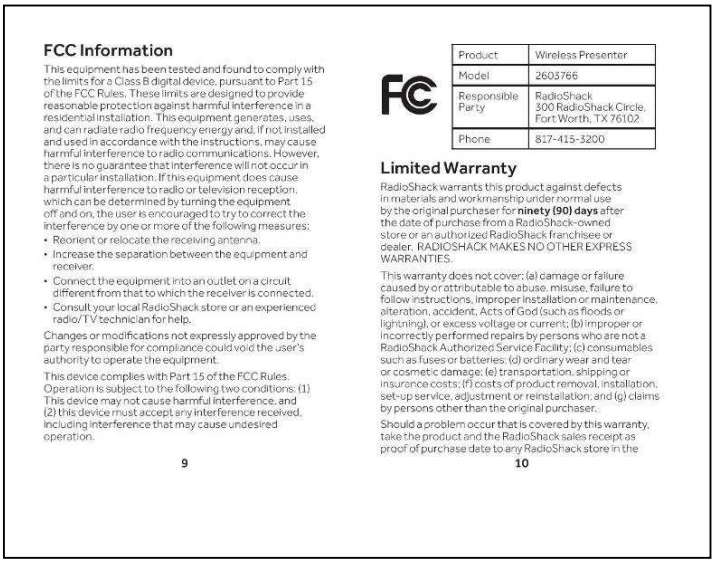
A8. User Manual



FCC Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult your local RadioShack store or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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Product	Wireless Presenter
Model	2603766
Responsible Party	RadioShack 300 RadioShack Circle, Fort Worth, TX 76102
Phone	817-415-3200

Limited Warranty

RadioShack warrants this product against defects in materials and workmanship under normal use by the original purchaser for **ninety (90) days** after the date of purchase from a RadioShack-owned store or an authorized RadioShack franchisee or dealer. RADIOSHACK MAKES NO OTHER EXPRESS WARRANTIES.

This warranty does not cover: (a) damage or failure caused by or attributable to abuse, misuse, failure to follow instructions, improper installation or maintenance, alteration, accident, Acts of God (such as floods or lightning), or excess voltage or current; (b) improper or incorrectly performed repairs by persons who are not a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) ordinary wear and tear or cosmetic damage; (e) transportation, shipping or insurance costs; (f) costs of product removal, installation, set-up service, adjustment or reinstallation; and (g) claims by persons other than the original purchaser.

Should a problem occur that is covered by this warranty, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store in the

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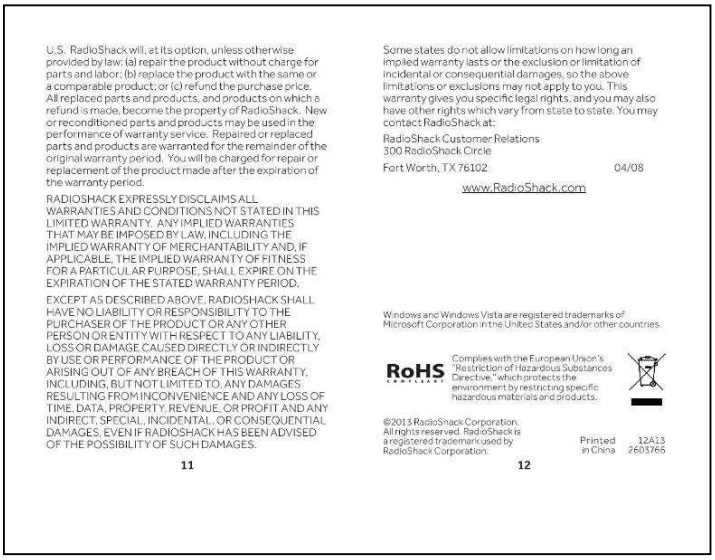

U.S. RadioShack will, at its option, unless otherwise provided by law: (a) repair the product without charge for parts and labor; (b) replace the product with the same or a comparable product; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

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EXCEPT AS DESCRIBED ABOVE, RADIOSHACK SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OF THE PRODUCT OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE AND ANY LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT AND ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RADIOSHACK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

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Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. You may contact RadioShack at:

RadioShack Customer Relations
300 RadioShack Circle
Fort Worth, TX 76102 04/08

www.RadioShack.com

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

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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