



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AT0003659(1) Date : 16 Jan 2015

Application No. : LS038639(7)

Applicant : Dorcy International (HK) Ltd
21/F Excel Centre 483A Castle Peak Road,
Cheung Sha Wan, Hong Kong

Client : Tung Fat Industries Ltd
21/F Excel Centre 483A Castle Peak Road,
Cheung Sha Wan, Hong Kong

Sample Description : One(1) item of submitted sample stated to be APP Controlled LED Lantern of
Model No. 41-3200
Sample registration No. : RS043388-001, RS052000-001
Radio Frequency : 2402MHz – 2480 MHz Transceiver
Rating : 6 x 1.5V D size batteries
No. of submitted sample : One (1) piece (s)

Date Received : 17 Oct 2014, 01 Dec 2014

Test Period : 22 Oct 2014 to 15 Dec 2014.

Test Requested : FCC 47CFR Part 15 Certification.

Test Method : 47 CFR Part 15 (10-1-12 Edition)
ANSI C63.4 – 2009

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 C.

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature :

Mr. WONG Lap-pong, Andrew
Manager
Electrical Division

Page 1 of 27

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TEST REPORT

Report No. : AT0003659(1)

Date : 16 Jan 2015

Table of Contents

| | | |
|-----|---------------------------------------------------------------------------------|----|
| 1 | General Information | 3 |
| 1.1 | General Description | 3 |
| 1.2 | Location of the test site | 4 |
| 1.3 | List of measuring equipment..... | 5 |
| 1.4 | Measurement Uncertainty | 6 |
| 2 | Description of the radiated emission test | 7 |
| 2.1 | Test Procedure | 7 |
| 2.2 | Test Result | 8 |
| 2.3 | Radiated Emission Measurement Data | 9 |
| 3 | Description of the Line-conducted Test..... | 11 |
| 3.1 | Test Procedure | 11 |
| 3.2 | Test Result | 11 |
| 3.3 | Graph and Table of Conducted Emission Measurement Data | 11 |
| 4 | Photograph | 12 |
| 4.1 | Photographs of the Test Setup for Radiated Emission and Conducted Emission..... | 12 |
| 4.2 | Photographs of the External and Internal Configurations of the EUT | 12 |
| 5 | Supplementary document..... | 13 |
| 5.1 | Bandwidth | 13 |
| 5.2 | Duty cycle | 13 |
| 5.3 | Transmission time..... | 13 |
| 5.4 | Power Spectral Density..... | 13 |
| 5.5 | Average on time | 13 |
| 6 | Appendices | 14 |

FCC ID: 2ADI6 -41-3200

Page 2 of 27



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AT0003659(1)

Date : 16 Jan 2015

1 General Information

1.1 General Description

The equipment under test (EUT) is a transceiver for App Controlled LED Lantern. The EUT is power by 6 x 1.5V D size batteries. It operates at 2402MHz – 2480MHz. There is button to turn on the LED light. The button can also use to pair other wireless device for the lantern control.

The brief circuit description is listed as follows:

| | |
|------------------------|-----------------------------------------------------|
| - U1 | and its associated circuit act as MCU |
| - U9 | and its associated circuit act as flash memory |
| - U6 | and its associated circuit act as RF module |
| - Y2, Y3 | and its associated circuit act as oscillator |
| - U3 | and its associated circuit act as LED driver |
| - U5, U8 | and its associated circuit act as power regulator |
| - R41 | and its associated circuit act as humidity sensor |
| - R42 | and its associated circuit act as thermistor |
| - S1, S2, S3, Q2, LED2 | and its associated circuit act as key and indicator |



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廠商會檢定中心

TEST REPORT

Report No. : AT0003659(1)

Date : 16 Jan 2015

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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FCC ID: 2ADI6 -41-3200

Page 4 of 27



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AT0003659(1)

Date : 16 Jan 2015

1.3 List of measuring equipment

| Equipment | Manufacturer | Model No. | Serial No. | Calibration Due Date | Calibration Period |
|-------------------------|--------------|--------------|-------------|----------------------|--------------------|
| EMI Test Receiver | R&S | ESCI | 100152 | 28 Aug 2015 | 1Year |
| Spectrum Analyzer | R&S | FSP30 | 100628 | 24 Nov 2015 | 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 | 24 Nov 2016 | 2Years |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170442 | 18 Jun 2015 | 2Years |
| Broadband Pre-Amplifier | Schwarzbeck | BBV 9718 | 9718-119 | 24 Nov 2016 | 2Years |
| Broadband Pre-Amplifier | Schwarzbeck | BBV 9719 | 9719-010 | 17 Jun 2015 | 2Years |
| Coaxial Cable | Suhner | Sucoflex_104 | N/A | 24 Nov 2015 | 1Year |



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TEST REPORT

Report No. : AT0003659(1)

Date : 16 Jan 2015

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) | 4.63dB |
| 30MHz ~ 200MHz (Vertical) | 4.65dB |
| 200MHz ~1000MHz (Horizontal) | 4.45dB |
| 200MHz ~1000MHz (Vertical) | 4.41dB |

Conducted emissions

| Frequency | Uncertainty (U_{lab}) |
|--------------|---------------------------|
| 150kHz~30MHz | 2.47dB |



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AT0003659(1)

Date : 16 Jan 2015

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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廠商會檢定中心

TEST REPORT

Report No. : AT0003659(1)

Date : 16 Jan 2015

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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廠商會檢定中心

TEST REPORT

Report No. : AT0003659(1)

Date : 16 Jan 2015

2.3 Radiated Emission Measurement Data

Radiated emission

Environmental conditions:

| Parameter | Recorded value |
|----------------------|----------------|
| Ambient temperature: | 20 °C |
| Relative humidity: | 51 % |

Detector: Peak RBW: 1MHz VBW: 3MHz Operation Mode: Transmission

Testing frequency range: 9kHz to 25GHz

| Channel | Frequency (MHz) | Polarity (H/V) | Reading at 3m (dB μ V) | Transducer Factor (dB/m) | Field Strength at 3m (dB μ V/m) | Limit at 3m (dB μ V/m) | Margin (dB) |
|---------|-----------------|----------------|----------------------------|--------------------------|-------------------------------------|----------------------------|-------------|
| Low | 2401.991 | H | 89.8 | - 6.3 | 83.5 | 114.0 | - 30.5 |
| | #4803.926 | V | 44.4 | 2.4 | 46.8 | 74.0 | - 27.2 |
| | #4803.974 | H | 46.6 | 2.4 | 49.0 | 74.0 | - 25.0 |
| | 7205.959 | V | 35.1 | 10.8 | 45.9 | 74.0 | - 28.1 |

| | | | | | | | |
|--------|-----------|---|------|-------|------|-------|--------|
| Middle | 2439.981 | H | 88.3 | - 6.3 | 82.0 | 114.0 | - 32.0 |
| | #4879.943 | V | 45.3 | 2.4 | 47.7 | 74.0 | - 26.3 |
| | #4880.040 | H | 47.4 | 2.4 | 49.8 | 74.0 | - 24.2 |
| | #7319.958 | H | 36.7 | 10.8 | 47.5 | 74.0 | - 26.5 |

| | | | | | | | |
|------|-----------|---|------|-------|------|-------|--------|
| High | 2480.006 | H | 85.5 | - 6.3 | 79.2 | 114.0 | - 34.8 |
| | #4959.946 | V | 46.2 | 2.4 | 48.6 | 74.0 | - 25.4 |
| | #4959.993 | H | 48.7 | 2.4 | 51.1 | 74.0 | - 22.9 |
| | #7439.956 | H | 37.1 | 10.8 | 47.9 | 74.0 | - 26.1 |

Remark: Peak measurement values are lower than average limit, therefore average measurement is not necessary.

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

FCC ID: 2ADI6 -41-3200

Page 9 of 27



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AT0003659(1)

Date : 16 Jan 2015

2.3 Radiated Emission Measurement Data (Con't)

Radiated emission

Environmental conditions:

| Parameter | Recorded value |
|----------------------|----------------|
| Ambient temperature: | 20 °C |
| Relative humidity: | 51 % |

Detector: Quasi-peak

RBW: 120kHz

VBW: 300kHz

Testing frequency range: 9kHz to 25GHz

Operation mode: Transmission

| Frequency (MHz) | Polarity (H/V) | Reading at 3m (dB μ V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dB μ V/m) | Limit at 3m (dB μ V/m) | Margin (dB) |
|-----------------|----------------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|-------------|
| #124.750 | H | 9.3 | 14.4 | 23.7 | 43.5 | - 19.8 |
| 201.955 | H | 9.4 | 12.0 | 21.4 | 43.5 | - 22.1 |
| #277.822 | H | 9.9 | 15..4 | 25.3 | 46.0 | - 20.7 |
| 378.777 | H | 11.9 | 16.8 | 28.7 | 46.0 | - 17.3 |
| 464.507 | H | 10.1 | 20.6 | 30.7 | 46.0 | - 15.3 |
| 547.261 | H | 9.8 | 22.2 | 32.0 | 46.0 | - 14.0 |
| 618.884 | H | 9.9 | 22.8 | 32.7 | 46.0 | - 13.3 |

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

FCC ID: 2ADI6 -41-3200

Page 10 of 27



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AT0003659(1)

Date : 16 Jan 2015

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

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

3.3 Graph and Table of Conducted Emission Measurement Data

Not Applicable

FCC ID: 2ADI6 -41-3200

Page 11 of 27



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AT0003659(1)

Date : 16 Jan 2015

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 TSup6.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 InPho12.jpg.

FCC ID: 2ADI6 -41-3200

Page 12 of 27



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AT0003659(1)

Date : 16 Jan 2015

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 TestRpt2.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.

The plot saved in TestRpt3.pdf shows the band edge is fulfil 15.209 requirement.

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

FCC ID: 2ADI6 -41-3200

Page 13 of 27



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AT0003659(1) Date : 16 Jan 2015

6 Appendices

| | | | |
|----|--------------------------------------------|---|-------|
| A1 | Photos of the set-up of Radiated Emissions | 3 | pages |
| A2 | Photos of External Configurations | 2 | pages |
| A3 | Photos of Internal Configurations | 3 | pages |
| A4 | ID Label/Location | 1 | page |
| A5 | Band Edge | 2 | pages |
| A6 | 20dB Bandwidth Plot | 2 | pages |

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Page 14 of 27



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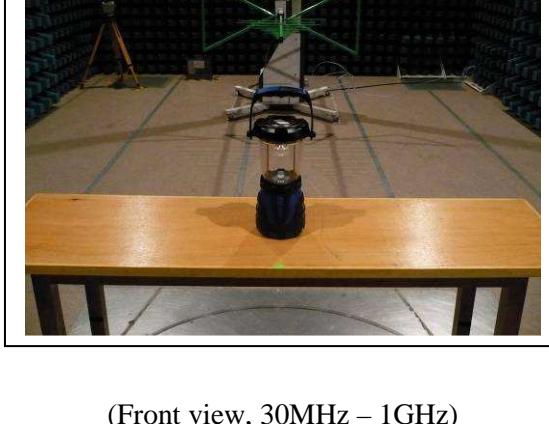
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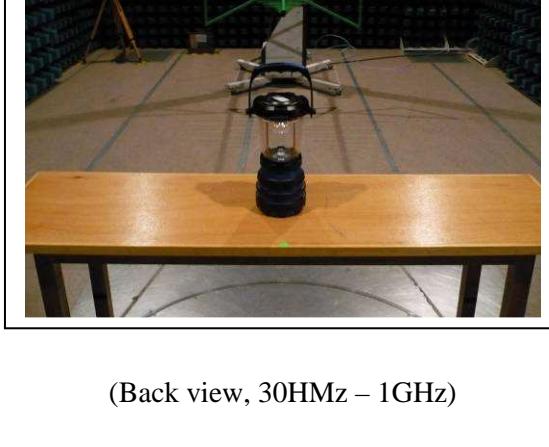
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Date : 16 Jan 2015

A1. Photos of the set-up of Radiated Emissions



(Front view, 30MHz – 1GHz)



(Back view, 30MHz – 1GHz)

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Reviewed by:

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Page 15 of 27

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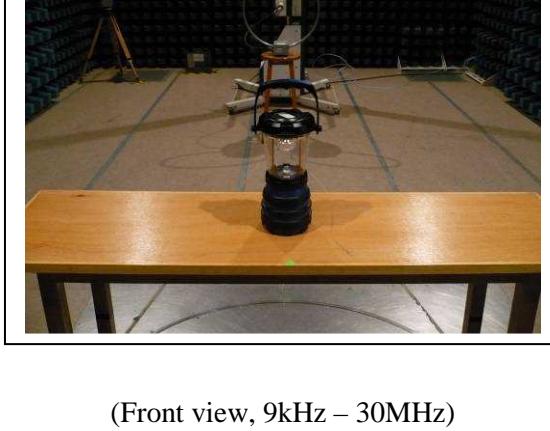
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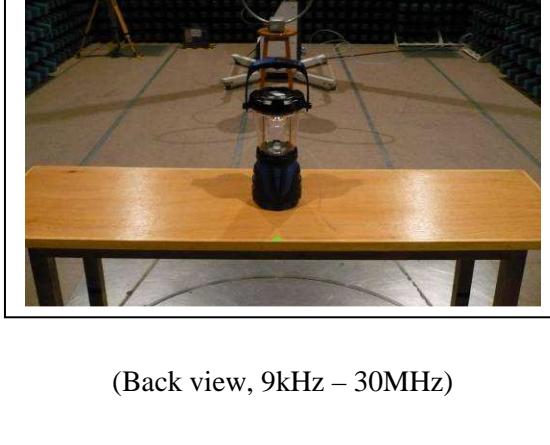
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Date : 16 Jan 2015

A1. Photos of the set-up of Radiated Emissions



(Front view, 9kHz – 30MHz)



(Back view, 9kHz – 30MHz)

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Page 16 of 27

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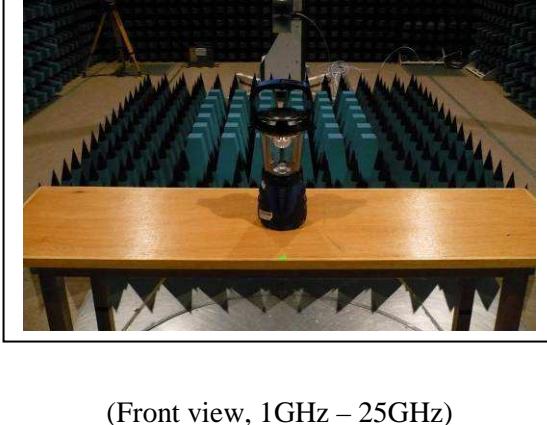
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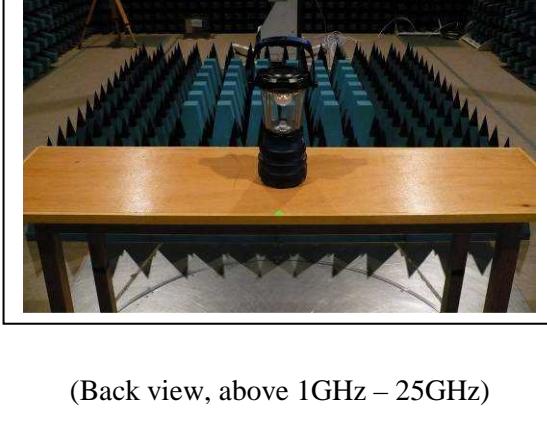
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A1. Photos of the set-up of Radiated Emissions

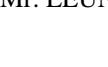


(Front view, 1GHz – 25GHz)



(Back view, above 1GHz – 25GHz)

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Page 17 of 27

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TEST REPORT

Report No. : AT0003659(1)

Date : 16 Jan 2015

A2 Photos of External Configurations



(External Configuration 1)



(External Configuration 2)

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Page 18 of 27

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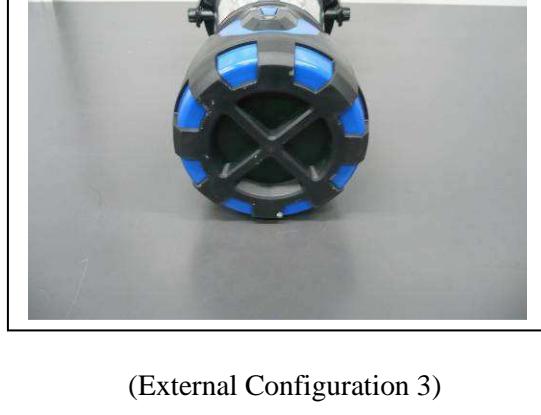
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A2 Photos of External Configurations



(External Configuration 3)



(External Configuration 4)

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Page 19 of 27

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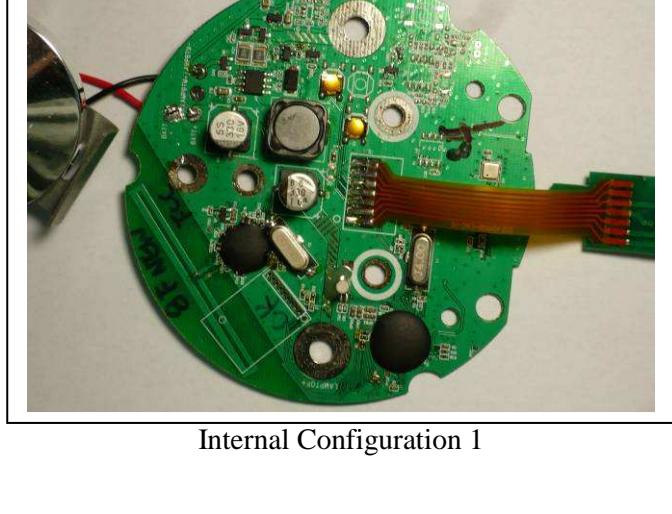
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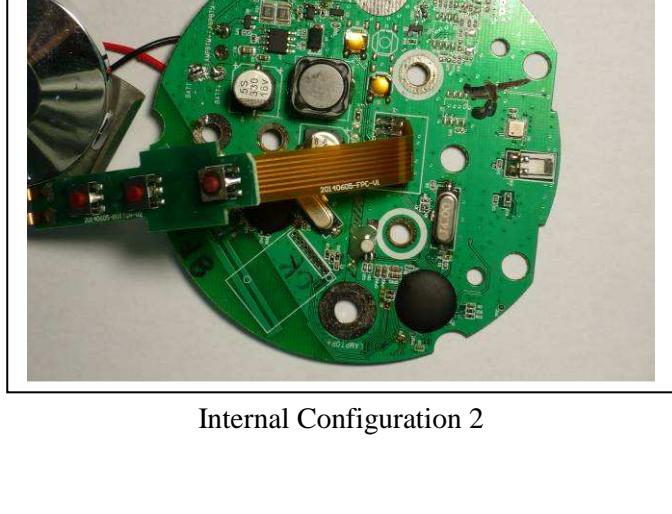
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Date : 16 Jan 2015

A3. Photos of Internal Configurations



Internal Configuration 1



Internal Configuration 2

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Page 20 of 27

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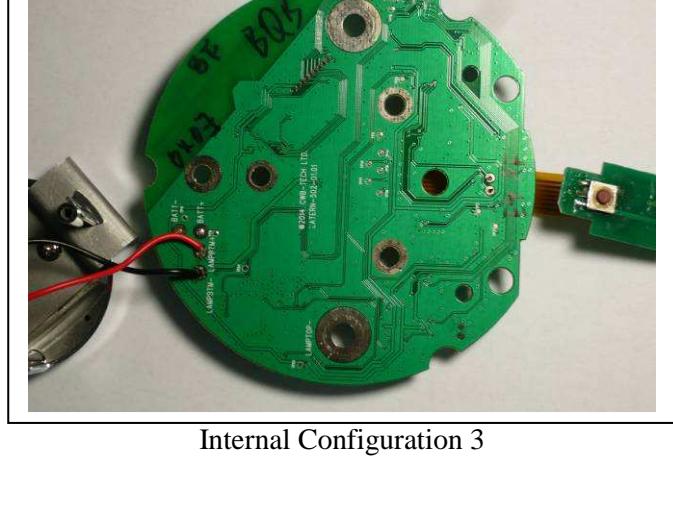
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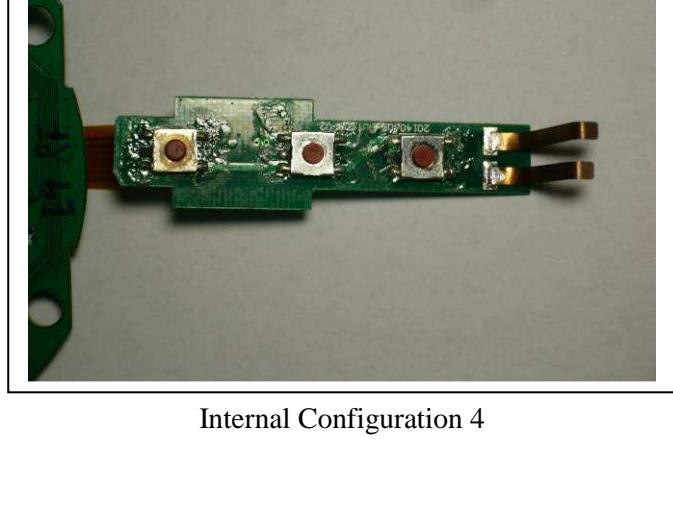
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A3. Photos of Internal Configurations



Internal Configuration 3



Internal Configuration 4

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Page 21 of 27

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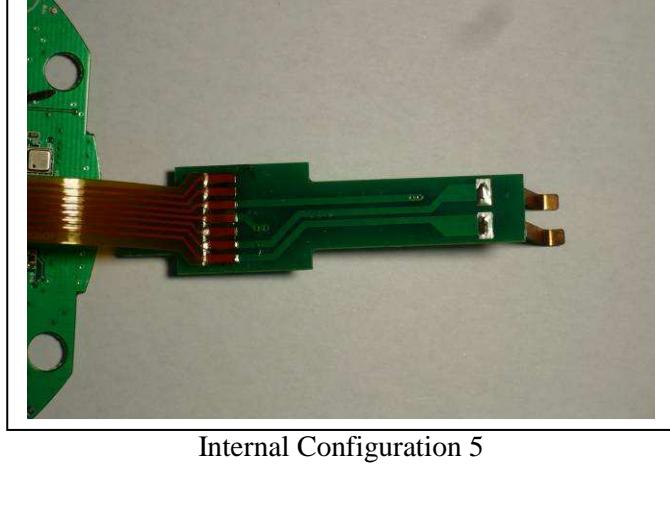
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A3. Photos of Internal Configurations



Internal Configuration 5

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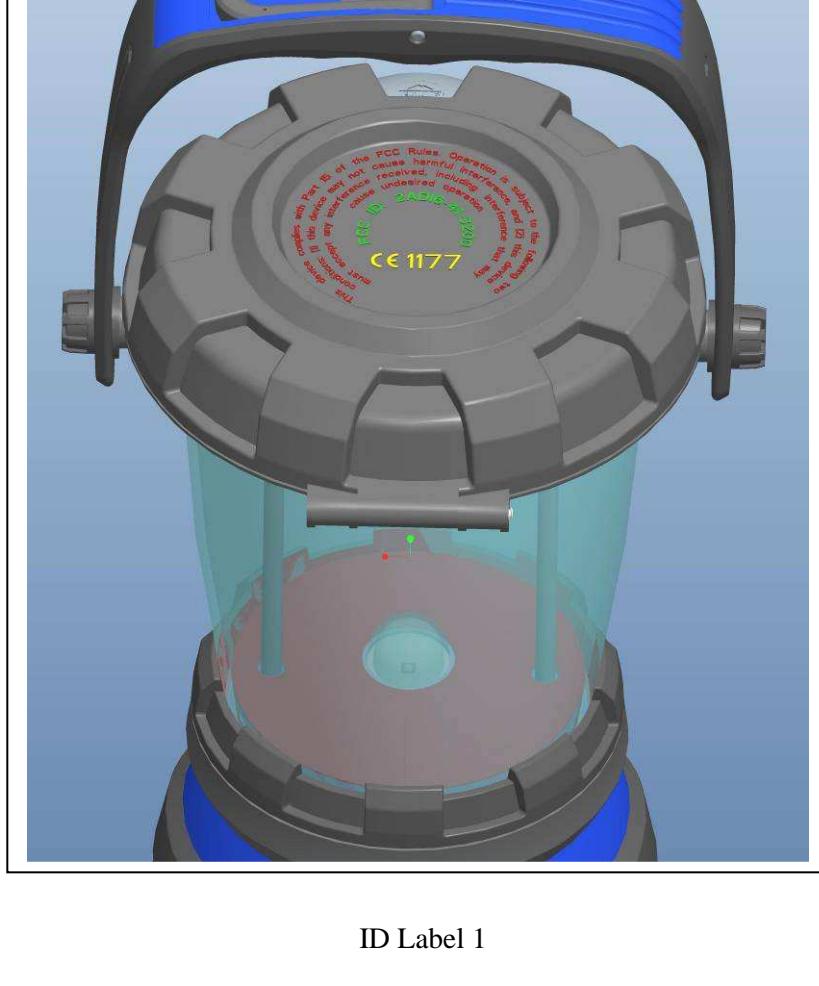
廠商會檢定中心

TEST REPORT

Report No. : AT0003659(1)

Date : 16 Jan 2015

A4. ID Label / Location



ID Label 1

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

FCC ID: 2ADI6 -41-3200

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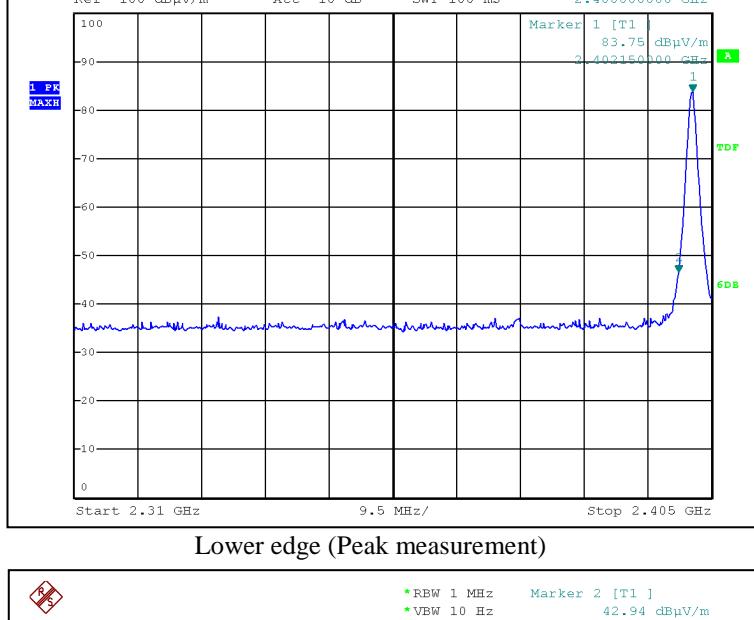
廠商會檢定中心

TEST REPORT

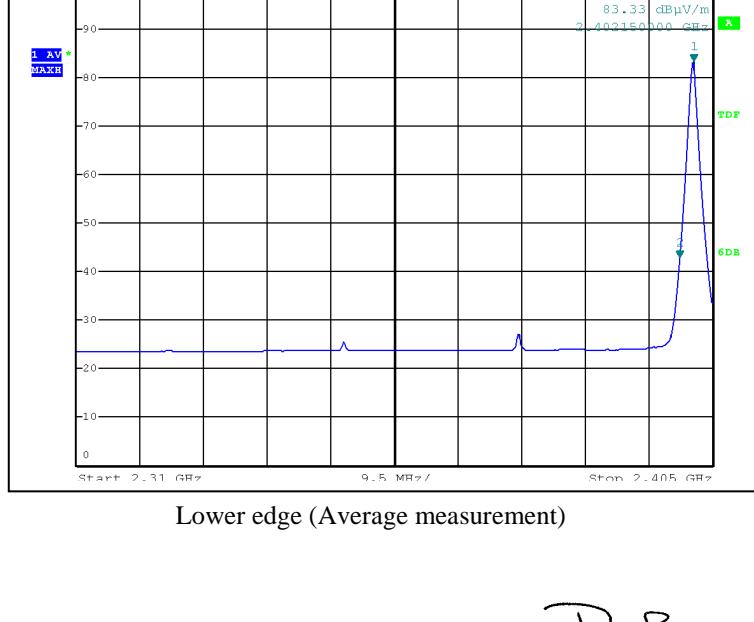
Report No. : AT0003659(1)

Date : 16 Jan 2015

A5. Band Edge



Lower edge (Peak measurement)



Lower edge (Average measurement)

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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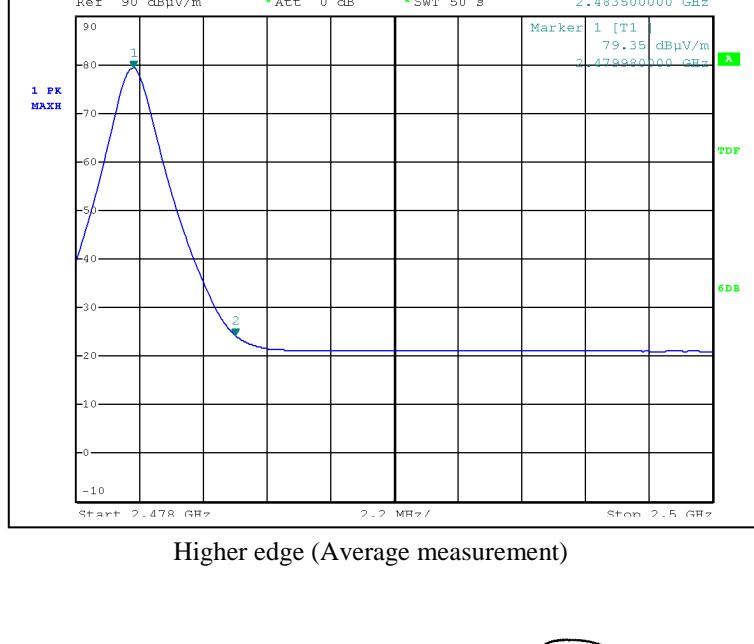
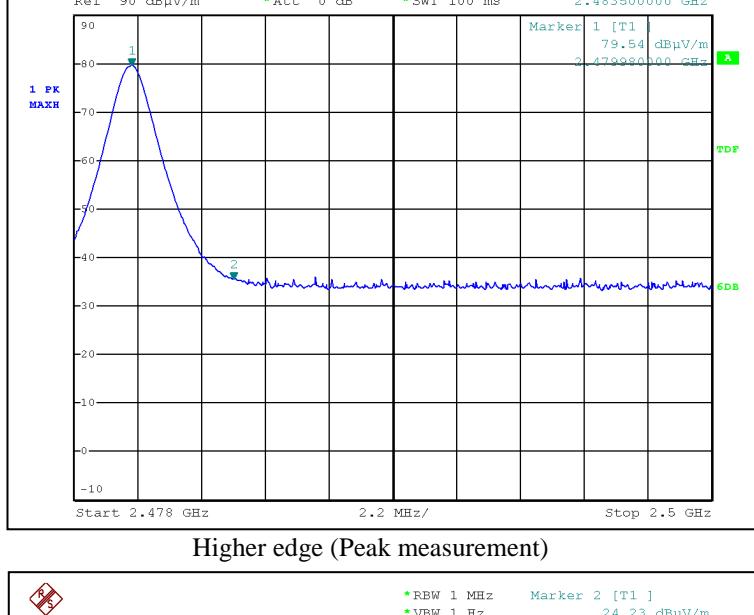
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TEST REPORT

Report No. : AT0003659(1)

Date : 16 Jan 2015

A5. Band Edge



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Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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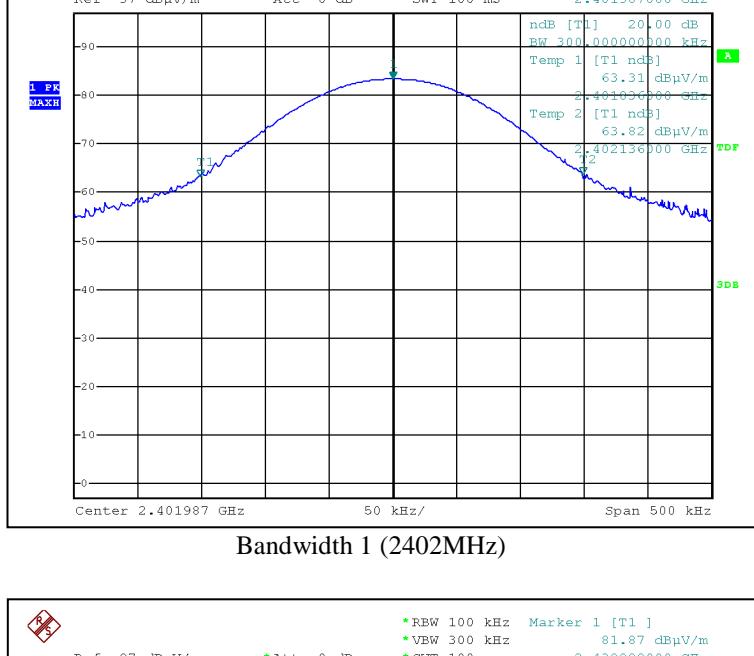
廠商會檢定中心

TEST REPORT

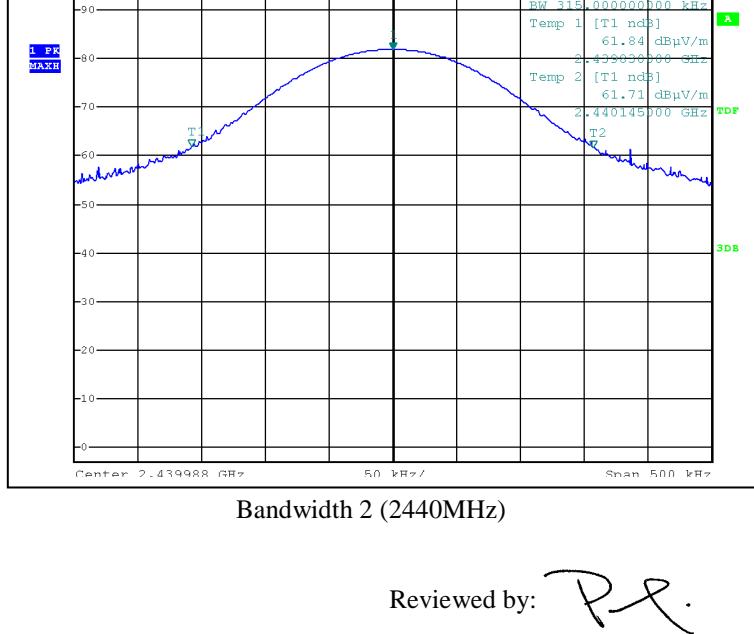
Report No. : AT0003659(1)

Date : 16 Jan 2015

A6. 20dB Bandwidth Plot



Bandwidth 1 (2402MHz)



Bandwidth 2 (2440MHz)

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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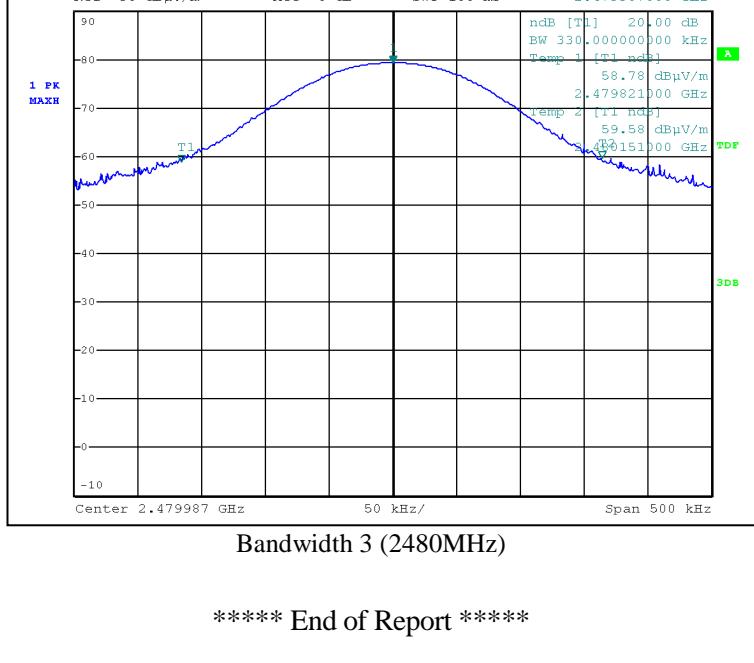
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TEST REPORT

Report No. : AT0003659(1)

Date : 16 Jan 2015

A6. 20dB Bandwidth Plot



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

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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