CMA Testing and Certification Laboratories
廠商會檢定中心

TEST REPORT

Report No. : AU0018844(3) Date : 05 Apr 2016

Application No. : LU007428(0)

Applicant : Kid Galaxy Inc
150 Dow Street,
Unit 425B Manchester, NH03101, U.S.A.

Sample Description : One(1) item of submitted sample stated to be :

Sample Description	Model number
Remote of Mega Morphibian Shark	10199
Remote of Mega Morphibian Snake	10193
Remote of Mega Morphibian Crocodile	10194
Remote of Mega Morphibian Lobster	10195
Remote of Mega Morphibian Turtle	10196
Remote of Mega Morphibian Rhino	10200

Sample registration no. : RU018969-001
Radio Frequency : 2425MHz – 2472MHz Transceiver
Rating : 2 x 1.5V AAA size batteries
No. of submitted sample : Nine(9) piece (s)

Date Received : 24 Mar 2016
Test Period : 07 Mar 2016 to 30 Mar 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.

Remark : All six models are the same in circuity and components and construction, and therefore model 10199 was chosen to be the representative of the test sample. The difference(s) between the tested model and the declared model(s) is/are: Model no. and outlook.

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature : _____ Page 1 of 27
Mr. WONG Lap-pong, Andrew
Manager
Electrical Division

FCC ID: QEA-S615-2G4T

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1 General Information

1.1 General Description

The equipment under test (EUT) is a controller for Mega Morphibian series. The EUT is power by 2 x 1.5V AAA size batteries. It operates at 2425MHz – 2472MHz. There are joysticks on the EUT. When the the joysticks are moved, the EUT will transmit the radio control signal to receiver.

The brief circuit description is listed as follows:

- U2	and its associated circuit act as encoder
- U1	and its associated circuit act as RF circuit
- X1	and its associated circuit act as oscillator
- K1, K2, K3, K4	and its associated circuit act as car control

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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,
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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	07 Aug 2017	2Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9719	9719-010	07 Aug 2017	2Years
Coaxial Cable	Schaffner	RG 213/U	N/A	18 May 2016	1Year
Coaxial Cable	Suhner	RG 214/U	N/A	18 May 2016	1Year
Coaxial Cable	Suhner	Sucoflex_104	N/A	13 Dec 2016	1Year

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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 ~18GMHz	4.64dB

Conducted emissions

Frequency	Uncertainty (U_{lab})
150kHz~30MHz	3.44dB

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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).

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:	23	° C
Relative humidity:	73	%

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)
2424.999	H	63.0	- 4.2	58.8	114.0	- 55.2
4849.994	V	44.1	3.7	52.2	74.0	- 21.8
4850.012	H	48.5	3.7	47.8	74.0	- 26.2
2443.936	H	62.3	- 4.2	58.1	114.0	- 55.9
4887.950	H	47.9	3.7	51.6	74.0	- 22.4
4887.986	V	43.9	3.7	47.6	74.0	- 26.4
2471.976	H	62.1	- 4.3	57.8	114.0	- 56.2
4943.894	H	46.6	4.0	50.6	74.0	- 23.4
4943.954	V	39.0	4.0	43.0	74.0	- 31.0

Remark: Other emissions more than 20dB below the limit are not reported.
Peak measurement values are lower than average limit, therefore average measurement is not necessary.
EUT was placed flat on the table for maximum emission

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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:	23	° C
Relative humidity:	73	%

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)
53.465	H	6.7	10.6	17.3	40.0	- 22.7
95.226	H	9.2	10.1	19.3	43.5	- 24.2
143.357	H	8.1	14.1	22.2	43.5	- 21.3
198.861	H	9.3	11.2	20.5	43.5	- 23.0
#242.342	H	9.6	13.2	22.8	46.0	- 23.2
#279.984	H	9.0	15.4	24.4	46.0	- 21.6
312.292	H	8.4	16.8	25.2	46.0	- 20.8

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:	23	° C
Relative humidity:	73	%

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)
56.080	H	5.8	10.6	16.4	40.0	- 23.6
93.126	H	8.7	10.1	18.8	43.5	- 24.7
#136.984	H	8.5	14.1	22.6	43.5	- 20.9
194.014	H	9.2	11.2	20.4	43.5	- 23.1
#244.669	H	10.0	13.2	23.2	46.0	- 22.8
287.911	H	9.1	15.4	24.5	46.0	- 21.5
317.465	H	8.6	16.8	25.4	46.0	- 20.6

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 QEA-S615-2G4T TSup.pdf.

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename QEA-S615-2G4T ExPho.pdf and QEA-S615-2G4T 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 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 Antenna requirement

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

A1	Photos of the set-up of Radiated Emissions	3	pages
A2	Photos of External Configurations	2	pages
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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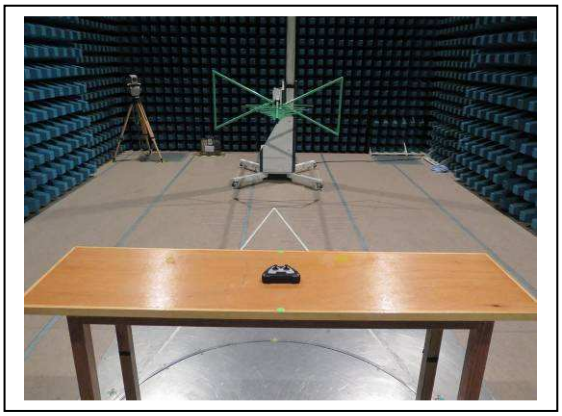
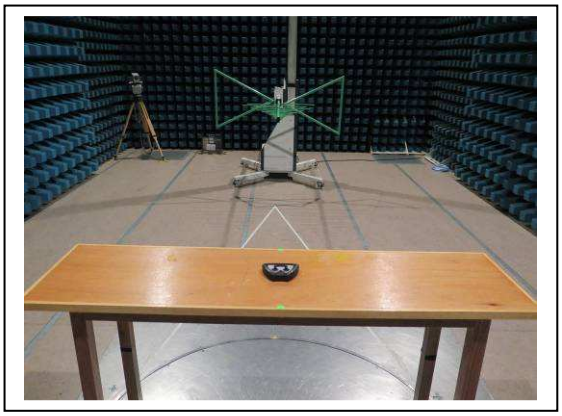
A1. Photos of the set-up of Radiated Emissions



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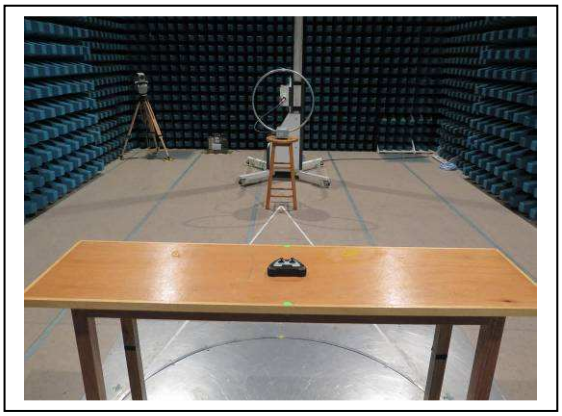
A1. Photos of the set-up of Radiated Emissions



(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)

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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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A2. Photos of External Configuration

External Configuration 3

External Configuration 4

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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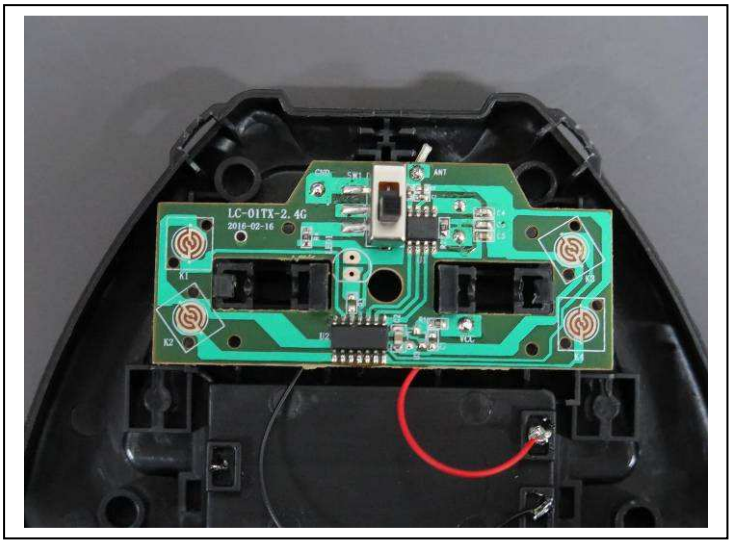
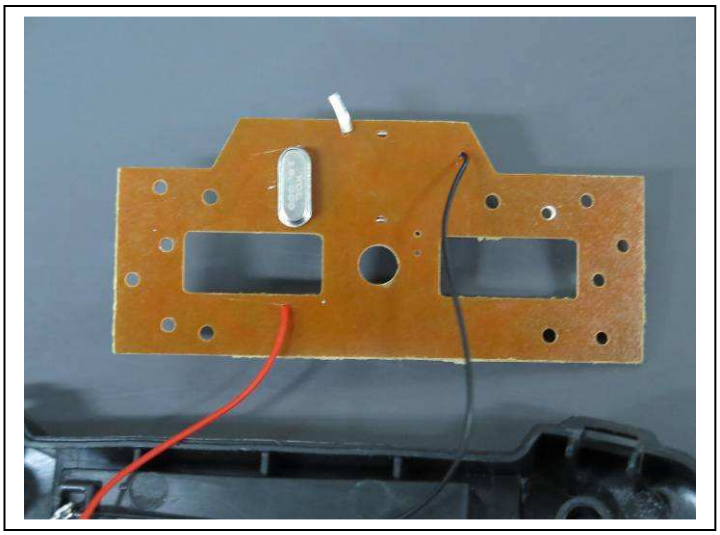
A3. Photos of Internal Configuration



Internal Configuration 1



Internal Configuration 2

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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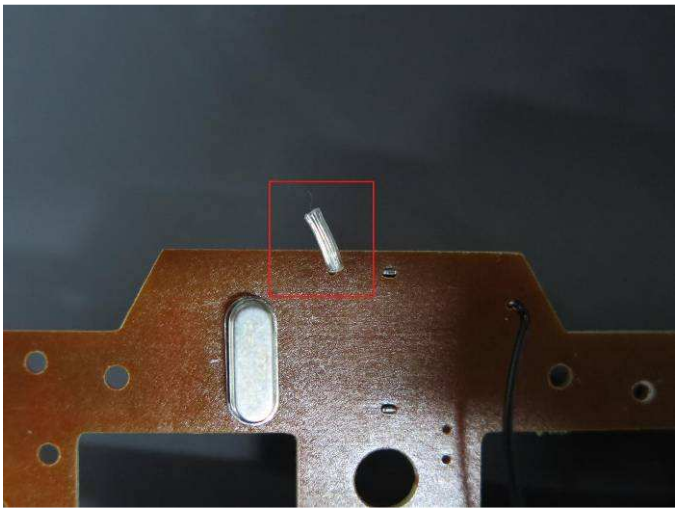
A4. EUT Antenna



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

FCC ID:QEA-S615-2G4T
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.

ID Label 2

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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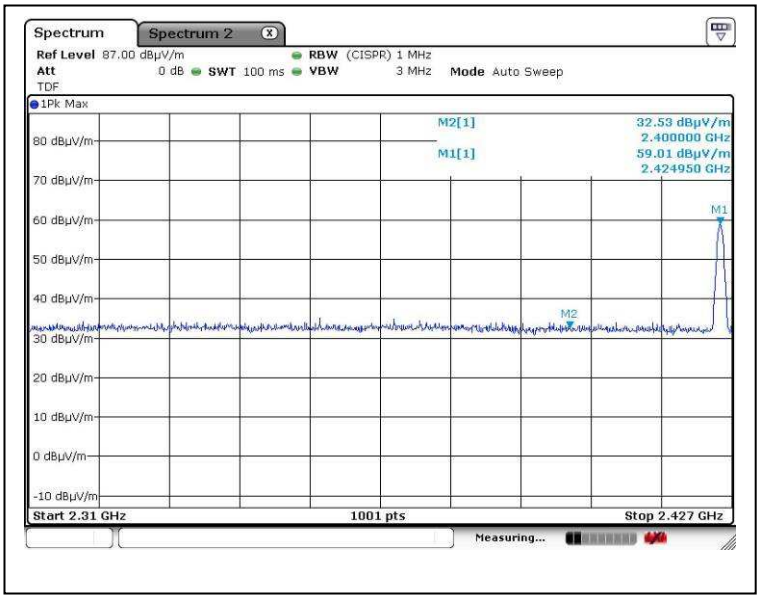
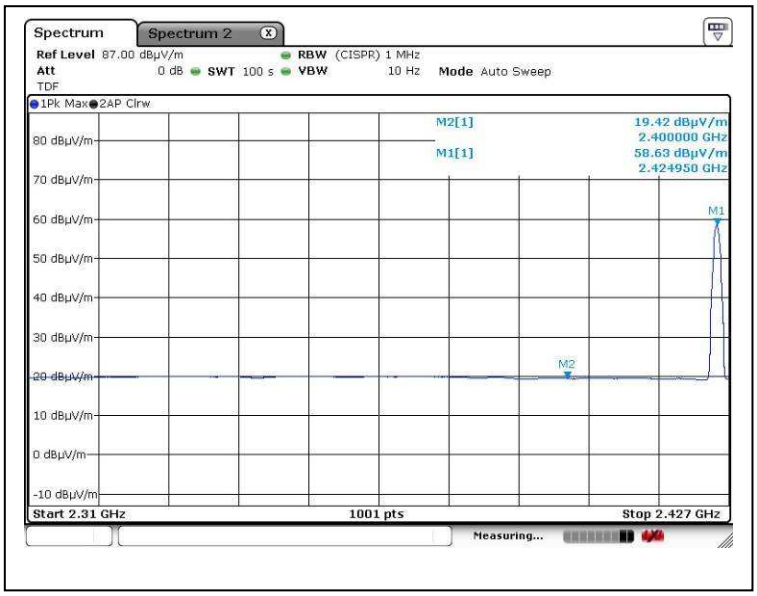
A6. Band Edge



Lower edge (Peak measurement)



Lower edge (Average measurement)

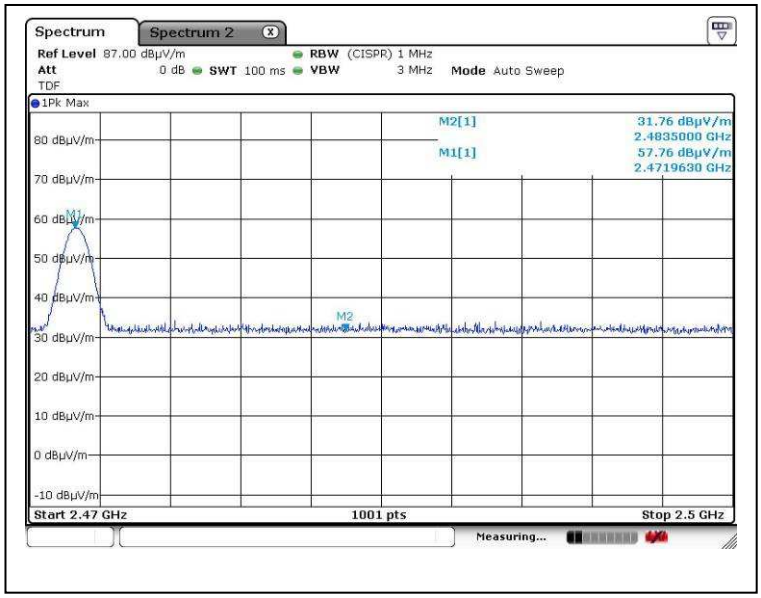
Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

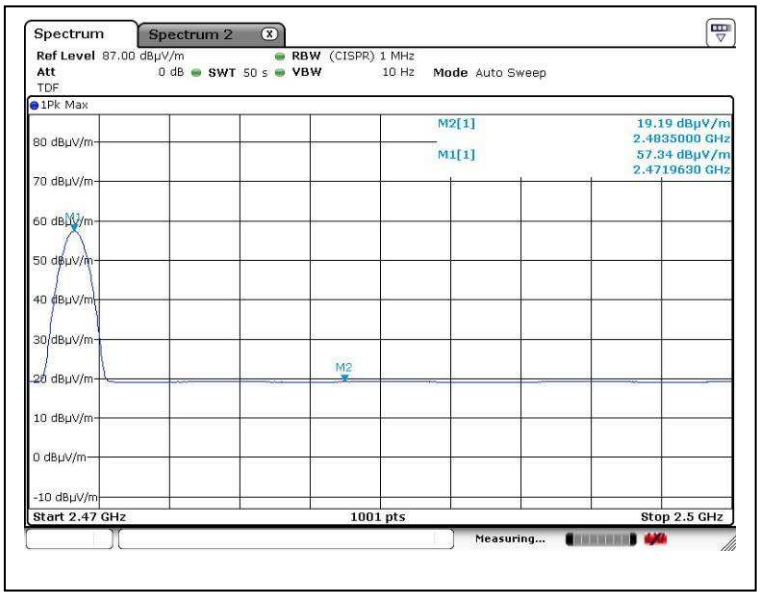
TEST REPORT

Report No. : AU0018844(3) Date : 05 Apr 2016

A6. Band Edge



Upper edge (Peak measurement)



Upper edge (Average measurement)

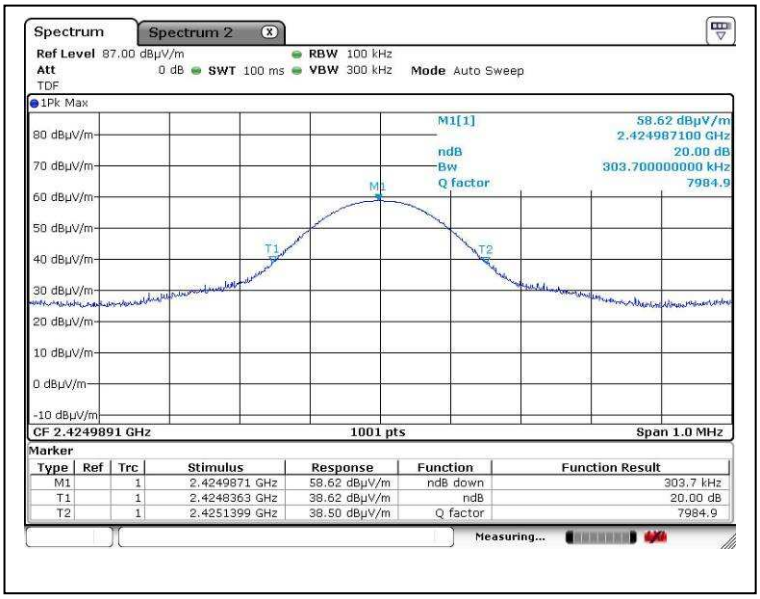
Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

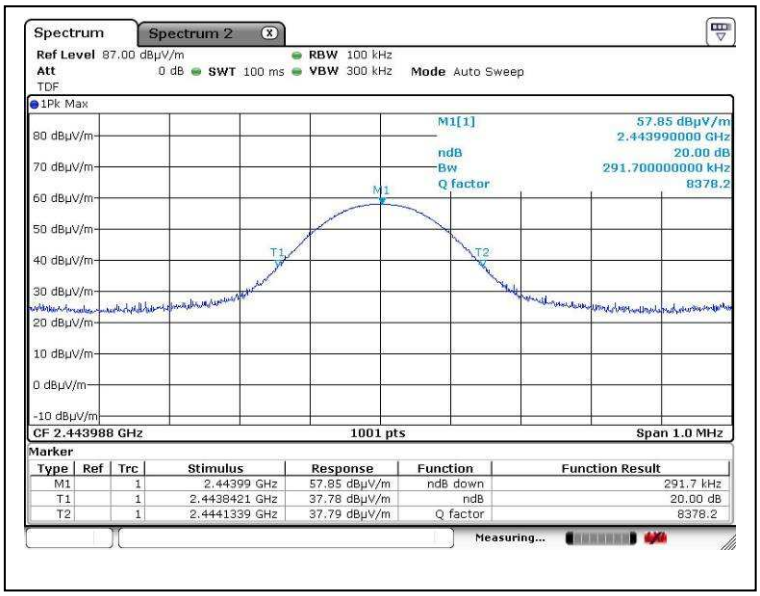
TEST REPORT

Report No. : AU0018844(3) Date : 05 Apr 2016

A7. 20dB Bandwidth Plot



Bandwidth 1 (2425MHz)



Bandwidth 2 (2444MHz)

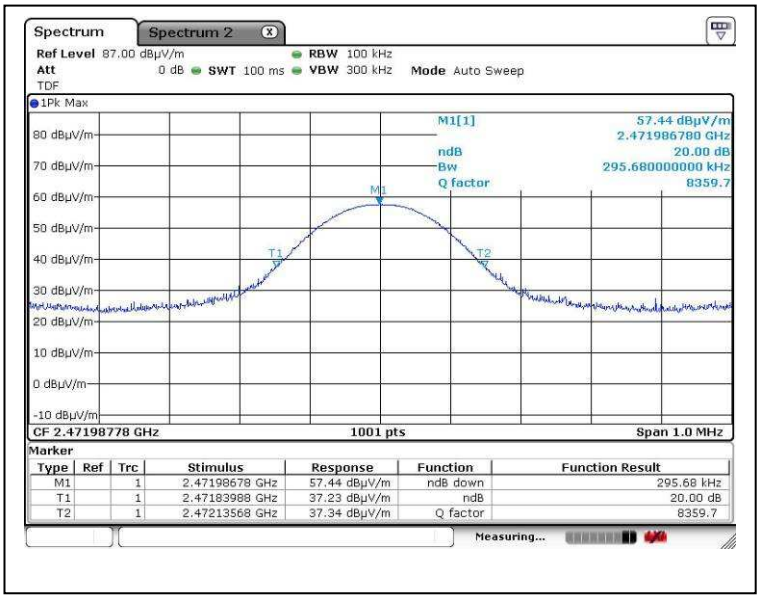
Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

TEST REPORT

Report No. : AU0018844(3) Date : 05 Apr 2016

A6. 20dB Bandwidth Plot



Bandwidth 3 (2472MHz)

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

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew