



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AT0039592(6) Date : 14 Aug 2015

Application No. : LT018800(6)

Applicant : Zego Electronic Company Limited (Shenzhen Yangri Electronic Ltd)
Room 703, Kowloon Building,
555 Nathan Road, Kowloon, HK

Sample Description : One(1) item of submitted sample stated to be Copter of Dominator Drone
of Model No. 6001359
Sample registration No. : RT026006-003, RT0035651-001
Radio Frequency : 2402MHz – 2475MHz Transceiver
Rating : 3.7V rechargeable battery
: USB 5V charging adaptor
No. of submitted sample : Two (2) set (s)

Date Received : 29 Apr 2015, 24 Jul 2015

Test Period : 07 May 2015 to 14 Aug 2015.

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 37.

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

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FCC ID: 2ACS65RX



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1 General Information

1.1 General Description

The equipment under test (EUT) is a copter for Dominator Drone. The EUT is power by 3.7V rechargeable battery. It operates at 2402MHz – 2475MHz. When the receiver receives radio signal from transmitter, it will take corresponding actions.

The brief circuit description is listed as follows:

- U1, U3 and its associated circuit act as MCU
- U2 and its associated circuit act as RF circuit
- Y1 and its associated circuit act as oscillator
- M1, M2, M3, M4 and its associated circuit act as motor



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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,
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	28 Aug 2015	1 Year
Spectrum Analyzer	R&S	FSV40	100628	02 Feb 2016	1 Year
Broadband Antenna	Schaffner	CBL6112B	2698	19 Feb 2016	2 Years
Loop Antenna	EMCO	6502	00056620	28 Oct 2015	2 Years
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-531	24 Nov 2016	2 Years
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170442	18 Jun 2017	2 Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9718	9718-119	24 Nov 2016	2 Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9719	9719-010	17 Jun 2017	2 Years
LISN	R&S	ENV216	101232	13 Nov 2015	1 Year
Coaxial Cable	Schaffner	RG 213/U	N/A	19 Feb 2016	1 Years
Coaxial Cable	Suhner	RG 214/U	N/A	19 Feb 2016	1 Years
Coaxial Cable	Suhner	Sucoflex_104	N/A	24 Nov 2016	2 Years

Support equipment:

Adaptor

Model: A1299

Supply by CMA



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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)	4.63dB
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



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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

Subpart C

Peak Detector data were measured unless otherwise stated.

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

Subpart B

Quasi-Peak Detector data were measured unless otherwise stated.

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.

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

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 and RSS 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:	28	°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)
2402.176	H	94.3	- 4.1	90.2	114.0	- 23.8
#4803.442	V	51.9	3.8	55.7	74.0	- 18.3
7205.160	H	42.7	11.7	54.4	74.0	- 19.6
7205.204	V	40.8	11.7	52.5	74.0	- 21.5
2432.696	H	91.2	- 4.1	87.1	114.0	- 26.9
#4865.384	V	51.1	3.8	54.9	74.0	- 19.1
#7299.586	V	44.2	11.7	55.9	74.0	- 18.1
#7299.622	H	43.9	11.7	55.6	74.0	- 18.4
2475.196	H	90.7	- 4.3	86.4	114.0	- 27.6
#4949.908	V	52.5	4.1	56.6	74.0	- 17.4
#7424.117	V	44.0	11.7	55.7	74.0	- 18.3
#7425.441	H	44.0	11.7	55.7	74.0	- 18.3

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:	° C
Relative humidity:	%

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)
2402.112	H	62.6	- 4.1	58.5	94.0	- 35.5
#4804.072	V	27.7	3.8	31.5	54.0	- 22.5
7206.549	H	23.1	11.7	34.8	54.0	- 19.2
7206.564	V	22.8	11.7	34.5	54.0	- 19.5
2433.110	H	59.4	- 4.1	55.3	94.0	- 38.7
#4866.036	V	27.7	3.8	31.5	54.0	- 22.5
#7298.413	H	23.8	11.7	35.5	54.0	- 18.5
#7298.428	V	24.0	11.7	35.7	54.0	- 18.3
2475.196	H	58.8	- 4.3	54.5	94.0	- 39.5
#4950.045	V	27.9	4.1	32.0	54.0	- 22.0
#7425.593	V	24.0	11.7	35.7	54.0	- 18.3
#7425.651	H	24.1	11.7	35.8	54.0	- 18.2

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:	28	° 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 (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)
71.164	H	9.1	8.6	17.7	40.0	- 22.3
#109.646	H	10.3	12.9	23.2	43.5	- 20.3
147.573	H	9.0	13.6	22.6	43.5	- 20.9
186.064	H	9.8	11.6	21.4	43.5	- 22.1
226.301	H	10.2	11.6	21.8	46.0	- 24.2
#273.087	H	9.8	15.5	25.3	46.0	- 20.7
311.579	H	9.5	16.7	26.2	46.0	- 19.8

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:	28	° 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 (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)
70.971	H	9.1	8.6	17.7	40.0	- 22.3
102.013	H	9.5	12.9	22.4	43.5	- 21.1
#156.701	H	8.6	13.6	22.2	43.5	- 21.3
201.614	H	9.5	11.9	21.4	43.5	- 22.1
238.167	H	10.6	12.8	23.4	46.0	- 22.6
#281.715	H	9.9	15.5	25.4	46.0	- 20.6
#332.592	H	10.6	16.7	27.3	46.0	- 18.7

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 B

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	28	° C
Relative humidity:	63	%

Detector: Quasi-peak

RBW: 120kHz

VBW: 300kHz

Testing frequency range: 9kHz to 25GHz

Operation mode: Charging

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)
36.162	H	10.8	18.8	29.6	40.0	- 10.4
#73.509	H	11.3	8.6	19.9	40.0	- 20.1
#113.597	H	10.4	12.9	23.3	43.5	- 20.2
#165.074	H	9.2	12.6	21.8	43.5	- 21.7
215.750	H	9.1	11.9	21.0	43.5	- 22.5
#253.126	H	9.5	15.5	25.0	46.0	- 21.0
308.512	H	9.4	16.7	26.1	46.0	- 19.9

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 EUT is connected to adaptor.

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 2ACS65RX TSup.pdf.

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename 2ACS65RX ExPho.pdf and 2ACS65RX 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 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.

The plot saved in TestRpt4.pdf shows the band edge is fulfil 15.209 requirement.



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6 Appendices

A1	Photos of the set-up of Radiated Emissions	4	pages
A2	Photos of the set-up of Conducted Emissions	2	pages
A3	Photos of External Configurations	4	pages
A4	Photos of Internal Configurations	2	pages
A5	ID Label/Location	1	page
A6	Conducted Emission Measurement Data	3	pages
A7	Band Edge	2	pages
A8	20dB Bandwidth Plot	2	pages



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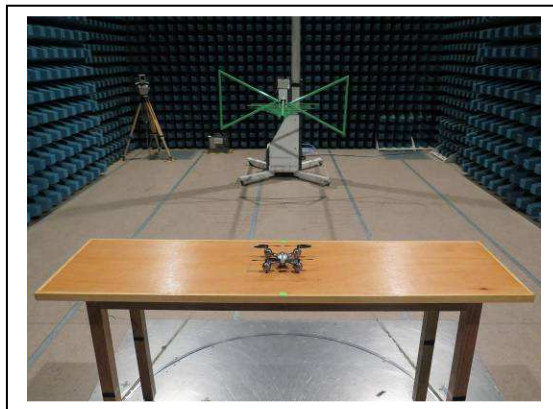
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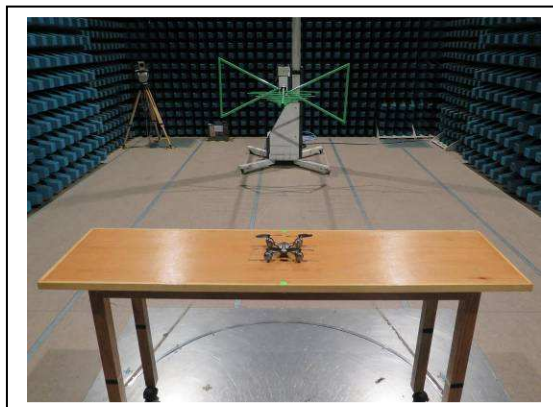
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Date : 14 Aug 2015

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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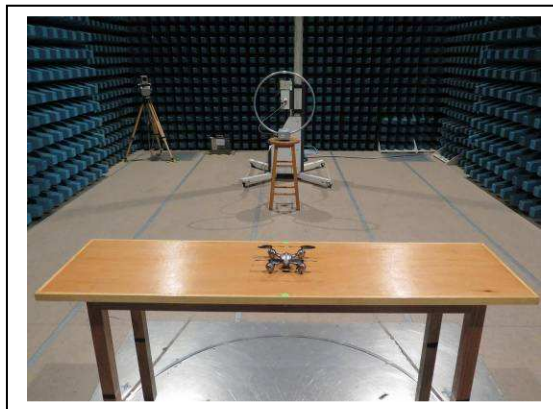
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A1. Photos of the set-up of Radiated Emissions



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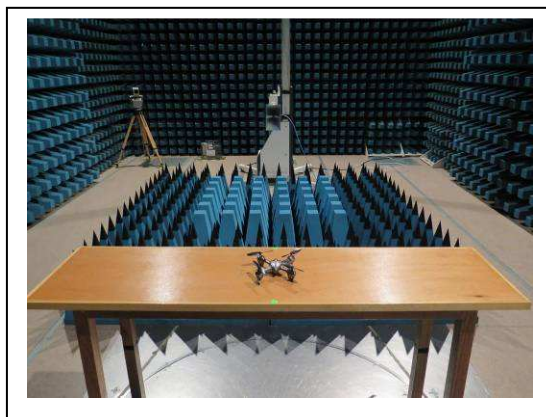
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A1. Photos of the set-up of Radiated Emissions



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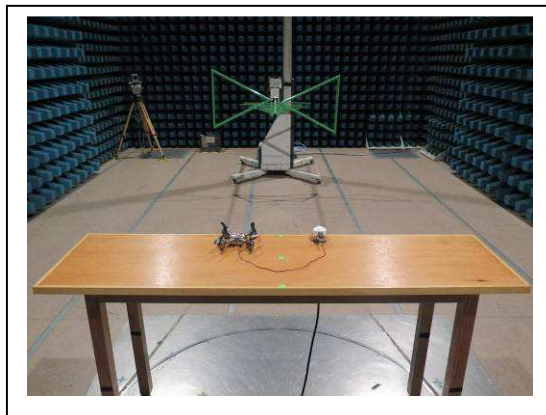
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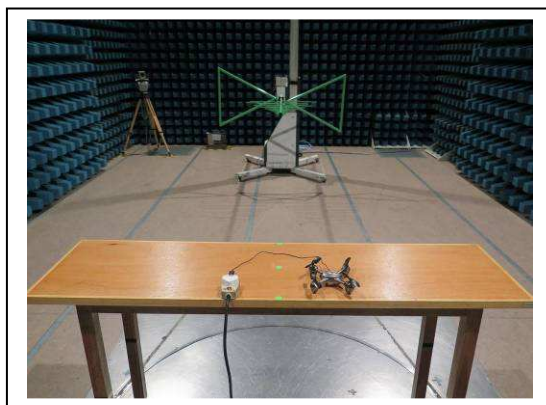
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A1. Photos of the set-up of Radiated Emissions



(front view, charging)



(rear view, charging)

Tested by:

Handwritten signature of Mr. LEUNG Shu-kan, Ken.

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Handwritten signature of Mr. WONG Lap-pong, Andrew.

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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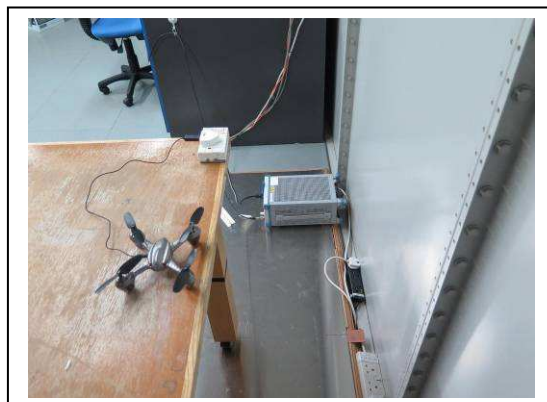
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A2 Photos of the set-up of Conducted Emission



(side view)

Tested by:

Handwritten signature of Mr. LEUNG Shu-kan, Ken.

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Handwritten signature of Mr. WONG Lap-pong, Andrew.

Mr. WONG Lap-pong, Andrew



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A3. Photos of External Configuration



External Configuration 1



External Configuration 2

Tested by:

Handwritten signature of Mr. LEUNG Shu-kan, Ken.

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Handwritten signature of Mr. WONG Lap-pong, Andrew.

Mr. WONG Lap-pong, Andrew



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A3. Photos of External Configuration



External Configuration 3



External Configuration 4

Tested by:

Handwritten signature of Mr. LEUNG Shu-kan, Ken.

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Handwritten signature of Mr. WONG Lap-pong, Andrew.

Mr. WONG Lap-pong, Andrew



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A3. Photos of External Configuration



External Configuration 5



External Configuration 6

Tested by:

A handwritten signature in black ink, appearing to read 'Ken'.

Mr. LEUNG Shu-kan, Ken

Reviewed by:

A handwritten signature in black ink, appearing to read 'AP'.

Mr. WONG Lap-pong, Andrew



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A3. Photos of External Configuration



External Configuration 7

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



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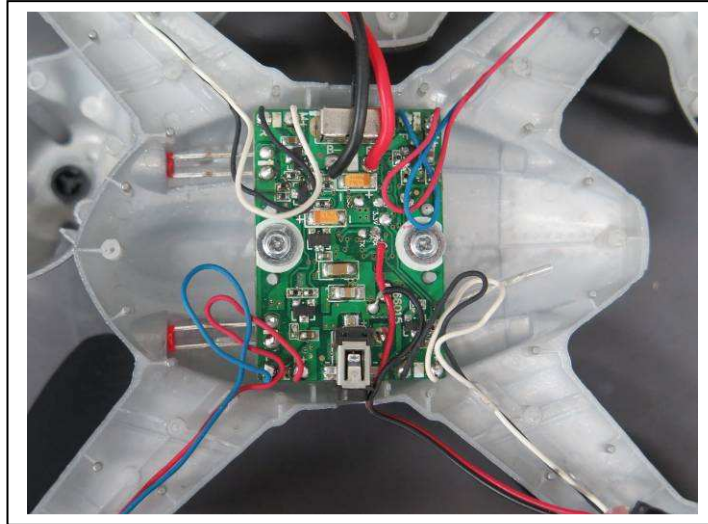
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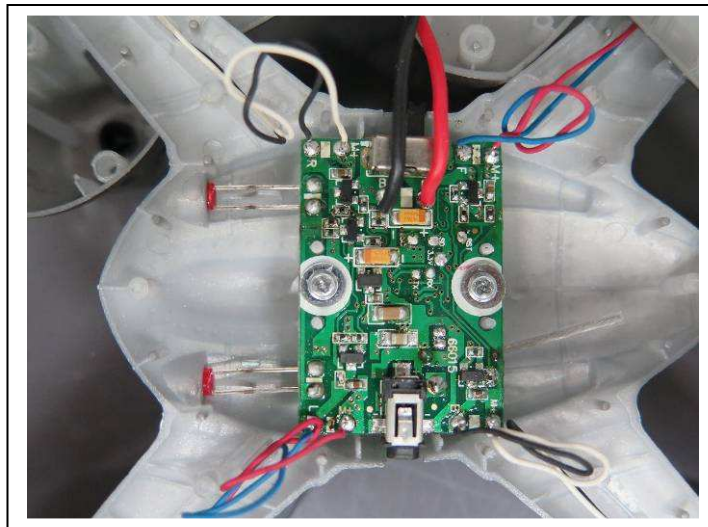
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A4. Photos of Internal Configuration



Internal Configuration 1



Internal Configuration 2

Tested by:

Handwritten signature of Mr. LEUNG Shu-kan, Ken.

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Handwritten signature of Mr. WONG Lap-pong, Andrew.

Mr. WONG Lap-pong, Andrew



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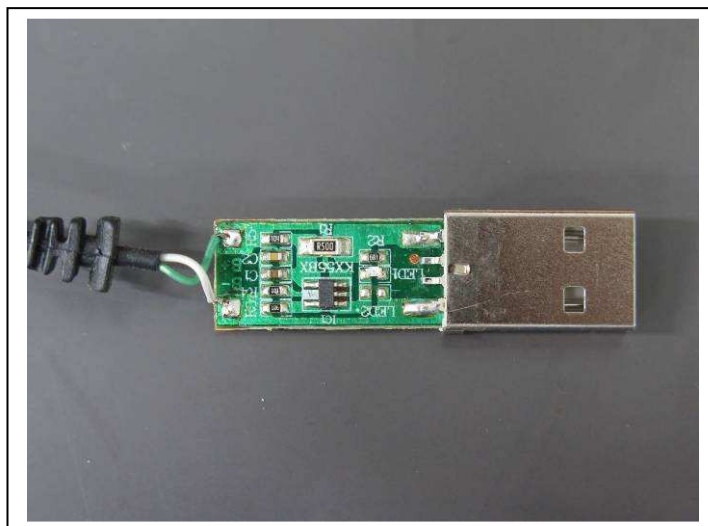
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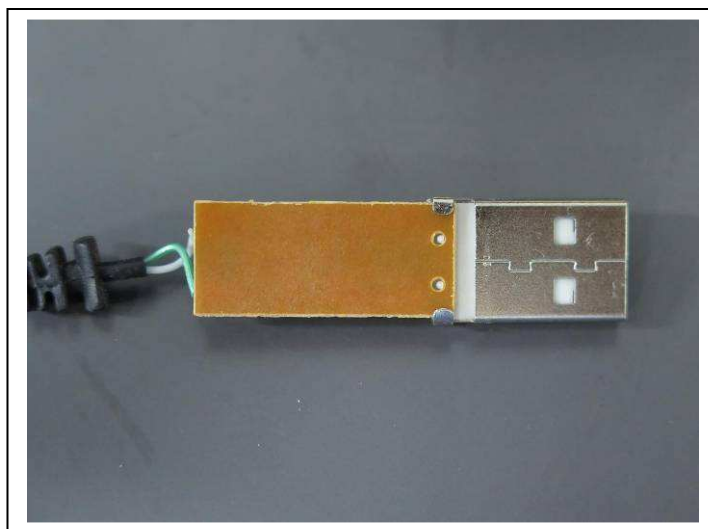
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A4. Photos of Internal Configuration



Internal Configuration 3



Internal Configuration 4

Tested by:

Handwritten signature of Mr. LEUNG Shu-kan, Ken.

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Handwritten signature of Mr. WONG Lap-pong, Andrew.

Mr. WONG Lap-pong, Andrew



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TEST REPORT

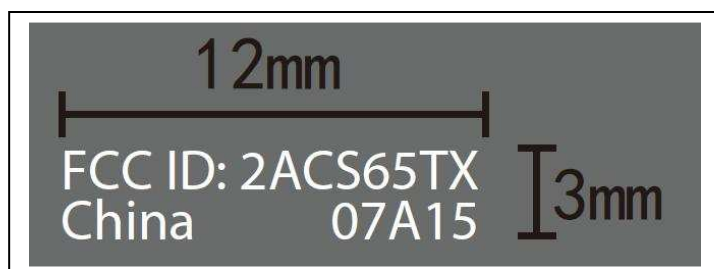
Report No. : AT0039592(6)

Date : 14 Aug 2015

A5. ID Label/Location



Label 1



Label 2

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

FCC ID: 2ACS65RX



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TEST REPORT

Report No. : AT0039592(6)

Date : 14 Aug 2015

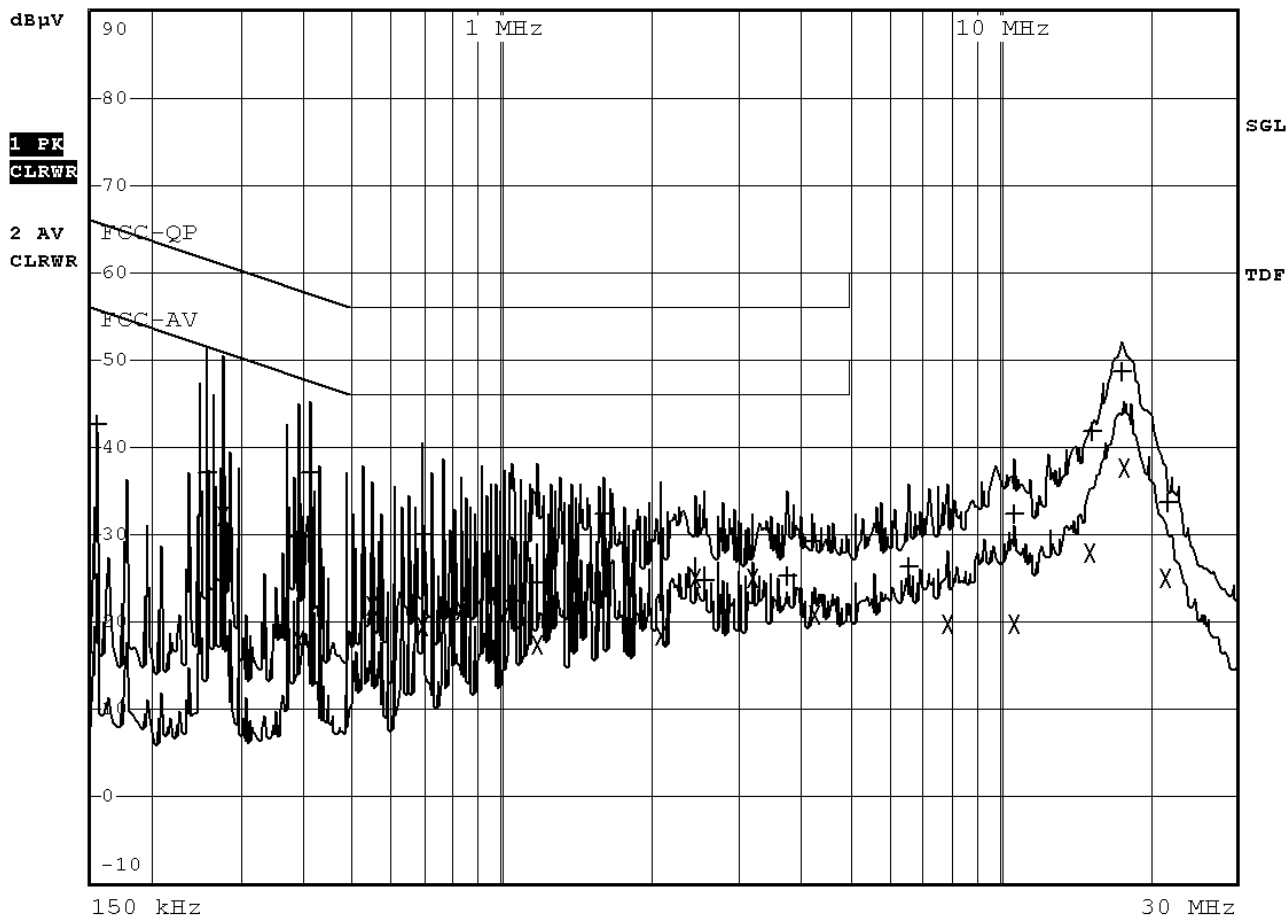
A6 Conducted Emission Measurement Date



RBW 9 kHz

MT 1 s

Att 10 dB AUTO PREAMP OFF



Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



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TEST REPORT

Report No. : AT0039592(6)

Date : 14 Aug 2015

A6 Conducted Emission Measurement Date

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	FCC-QP			
Trace2:	FCC-AV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dB μ V		DELTA LIMIT dB
1 Quasi Peak	154.5 kHz	42.49	L1 gnd	-23.26
1 Quasi Peak	258 kHz	37.06	N gnd	-24.42
2 Average	276 kHz	32.15	N gnd	-18.77
1 Quasi Peak	393 kHz	29.84	N gnd	-28.15
2 Average	393 kHz	17.99	N gnd	-30.00
1 Quasi Peak	415.5 kHz	37.06	N gnd	-20.47
2 Average	549.5 kHz	21.78	N gnd	-24.21
1 Quasi Peak	693.5 kHz	30.01	N gnd	-25.99
2 Average	693.5 kHz	19.63	N gnd	-26.36
2 Average	828.5 kHz	21.35	N gnd	-24.64
1 Quasi Peak	1.0535 MHz	22.40	N gnd	-33.59
1 Quasi Peak	1.1795 MHz	24.56	L1 gnd	-31.43
2 Average	1.1795 MHz	17.37	N gnd	-28.62
1 Quasi Peak	1.6115 MHz	32.31	N gnd	-23.68
2 Average	2.084 MHz	18.44	N gnd	-27.55
2 Average	2.462 MHz	25.15	N gnd	-20.84
1 Quasi Peak	2.5655 MHz	24.78	N gnd	-31.21
2 Average	3.218 MHz	25.10	N gnd	-20.89
1 Quasi Peak	3.758 MHz	25.23	N gnd	-30.76
1 Quasi Peak	4.2395 MHz	29.13	N gnd	-26.86

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AT0039592(6)

Date : 14 Aug 2015

A6 Conducted Emission Measurement Data

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	FCC-QP			
Trace2:	FCC-AV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dB μ V		DELTA LIMIT dB
2 Average	4.2755 MHz	20.74	N gnd	-25.25
1 Quasi Peak	6.602 MHz	26.32	L1 gnd	-33.67
2 Average	7.934 MHz	19.87	N gnd	-30.12
1 Quasi Peak	10.6835 MHz	32.51	N gnd	-27.48
2 Average	10.6835 MHz	19.71	L1 gnd	-30.28
2 Average	15.152 MHz	27.93	N gnd	-22.06
1 Quasi Peak	15.4535 MHz	41.81	N gnd	-18.18
1 Quasi Peak	17.582 MHz	48.77	N gnd	-11.22
2 Average	17.7935 MHz	37.58	N gnd	-12.41
2 Average	21.5915 MHz	24.92	N gnd	-25.07
1 Quasi Peak	21.9155 MHz	33.82	N gnd	-26.17

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



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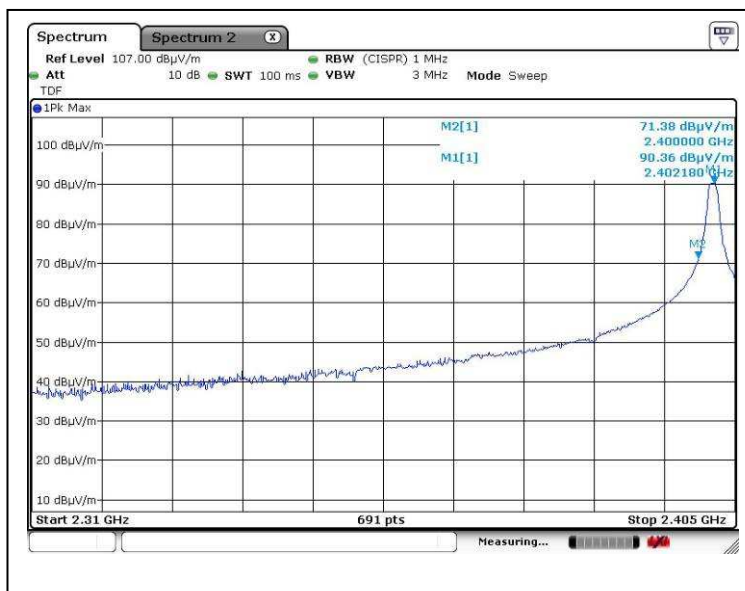
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TEST REPORT

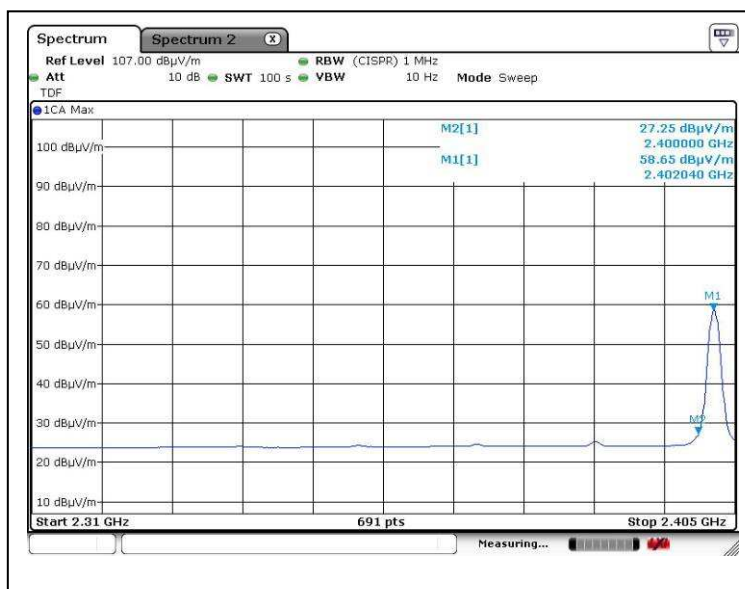
Report No. : AT0039592(6)

Date : 14 Aug 2015

A7. 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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TEST REPORT

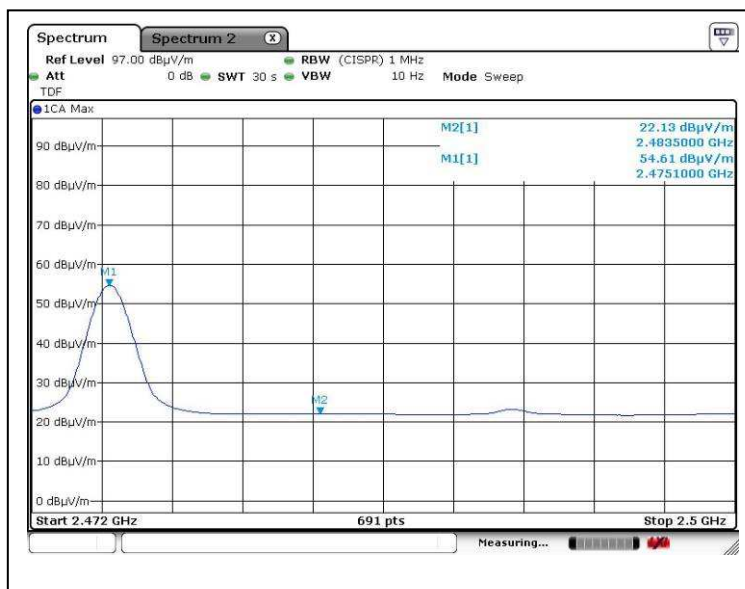
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A7. Band Edge



Upper edge (Peak measurement)



Upper edge (Average measurement)

Tested by: *Ken*
Mr. LEUNG Shu-kan, Ken

Reviewed by: *AP*
Mr. WONG Lap-pong, Andrew



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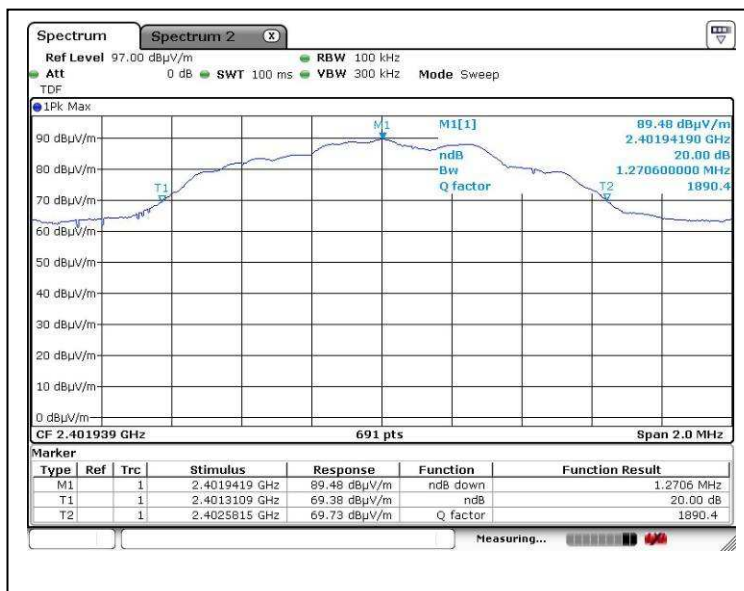
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TEST REPORT

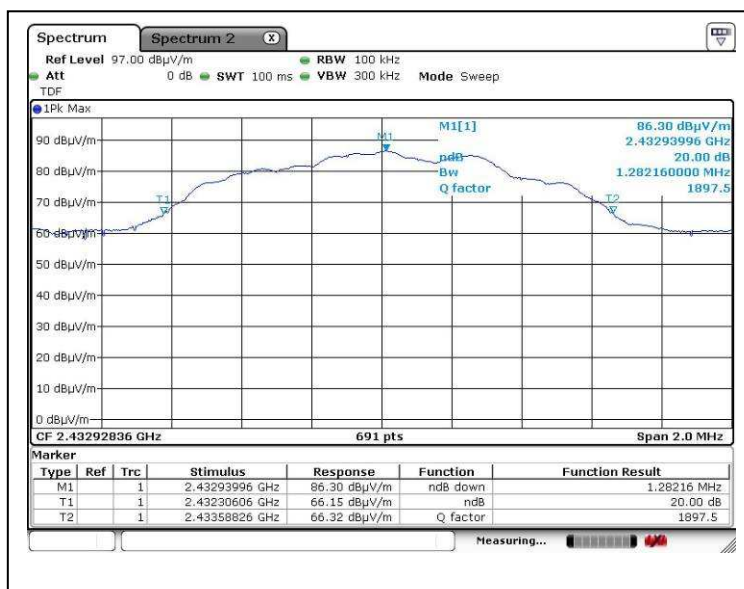
Report No. : AT0039592(6)

Date : 14 Aug 2015

A8. 20dB Bandwidth Plot



Bandwidth 1 (2402MHz)



Bandwidth 2 (2433MHz)

Tested by:

Ken

Mr. LEUNG Shu-kan, Ken

Reviewed by:

AP

Mr. WONG Lap-pong, Andrew



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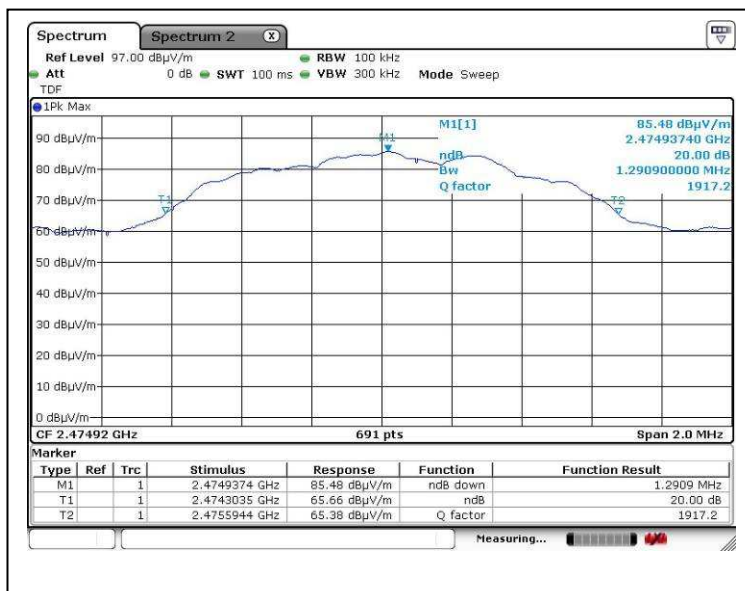
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TEST REPORT

Report No. : AT0039592(6)

Date : 14 Aug 2015

A8. 20dB Bandwidth Plot



Bandwidth 3 (2475MHz)

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

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew