

廠商會檢定中心

## **TEST REPORT**

Report No.	:	AU0022152(1)	Date :	20 Apr 2016			
Application No.	:	LU013179(0)	LU013179(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					
		Sample Description	Model numb	er			
		Remote of Extreme Morphibian Lobster	20339				
		Remote of Extreme Morphibian Turtle	20340				
Date Received Test Period	:	Sample registration no.: RU020399-00Radio Frequency: 2425MHz - 24Rating: 2 x 1.5V AAANo. of submitted sample: Nine(9) piece of11 Apr 2016:12 Apr 2016 to 18 Apr 2016.	72MHz Trans size batteries	ceiver			
Test Requested Test Method	:	FCC Part 15 Certificate 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 two models are the same in circuity and components and construction, and therefore model 20339 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

Mr. WONG Lap-pong Andrew Manager Electrical Division

Page 1 of 27

FCC ID: QEA-U075-2G4T

Authorized Signature :

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## **TEST REPORT**

Report No. : AU002

AU0022152(1)

Date : 2

20 Apr 2016

#### **Table of Contents**

1	Ger	neral Information	
	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	Des	cription of the radiated emission test	7
1	2.1	Test Procedure	
2	2.2	Test Result	8
2	2.3	Radiated Emission Measurement Data	9
3	Des	cription of the Line-conducted Test	
	3.1	Test Procedure	12
	3.2	Test Result	
	3.3	Graph and Table of Conducted Emission Measurement Data	12
4	Pho	tograph	13
4	4.1	Photographs of the Test Setup for Radiated Emission and Conducted Emission	13
4	4.2	Photographs of the External and Internal Configurations of the EUT	13
5	Sup	plementary document	14
4	5.1	Bandwidth	14
-	5.2	Antenna requirement	14
6	App	pendices	15

#### FCC ID: QEA-U075-2G4T

Page 2 of 27

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## **TEST REPORT**

Report No. : AU0022152(1)

Date : 20 Apr 2016

#### 1 General Information

#### **1.1 General Description**

The equipment under test (EUT) is a controller for Extreme Morphibian series. The EUT is power by  $2 \times 1.5V$  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

FCC ID: QEA-U075-2G4T

Page 3 of 27

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## **TEST REPORT**

Report No. : AU0022152(1)

Date : 20 Apr 2016

### **1.2** Location of the test site

FCC Registered Test Site Number: 552221

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

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

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

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

FCC ID: QEA-U075-2G4T

Page 4 of 27

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廠商會檢定中心

## **TEST REPORT**

Report No. : AU0022152(1)

Date : 20

20 Apr 2016

#### **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

FCC ID: QEA-U075-2G4T

Page 5 of 27

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Report No. : AU0022152(1)

Date : 20 Apr 2016

#### **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 <sub>lab</sub> )				
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 <sub>lab</sub> )
150kHz~30MHz	3.44dB

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Page 6 of 27

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## **TEST REPORT**

Report No. : AU0022152(1)

Date : 20 Apr 2016

#### 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.

The EUT is operating in 100% duty cycle.

FCC ID: QEA-U075-2G4T

Page 7 of 27

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Report No. : AU0022152(1)

Date : 20 Apr 2016

#### 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.

#### FCC ID: QEA-U075-2G4T

Page 8 of 27

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## **TEST REPORT**

Report No. : AU0022152(1)

Date : 20 Apr 2016

## 2.3 Radiated Emission Measurement Data

**Radiated emission** 

#### pursuant to

#### the requirement of FCC Part 15 subpart C

Envi	ronmenta	al conditions:	
D			l n

	_	
Parameter	Recorded value	
Ambient temperature:	24	° C
Relative humidity:	80	%

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)
2425.000	Н	65.4	- 4.2	61.2	114.0	- 52.8
2425.060	V	60.4	- 4.2	56.2	114.0	- 57.8
#4850.025	Н	49.9	3.7	53.6	74.0	- 20.4
#4850.154	V	48.4	3.7	52.1	74.0	- 21.9
2444.077	Н	64.9	- 4.2	60.7	114.0	- 53.3
2444.040	V	58.3	- 4.2	54.1	114.0	- 59.9
#4888.099	Н	48.2	3.7	51.9	74.0	- 22.1
#4888.128	V	46.3	3.7	50.0	74.0	- 24.0
2472.068	Н	64.5	- 4.3	60.2	114.0	- 53.8
2472.043	V	57.8	- 4.3	53.5	114.0	- 60.5
#4944.075	Н	48.6	4.0	52.6	74.0	- 21.4
#4944.078	V	46.9	4.0	50.9	74.0	- 23.1

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 upright on the table for maximum emission

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Page 9 of 27

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## TEST REPORT

Report No. : AU0022152(1)

Date : 20 Apr 2016

#### 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:	24	° C
Relative humidity:	80	%

Detector: Quasi-peak RBW: 120kHz VBW: 300kHz

Testing frequency range: 9kHz to 25GHz Operation mode: Transmission

Frequency (MHz)	Polarity (H/V)	Reading at 3m	Antenna Factor and Cable Loss	Field Strength at 3m	Limit at 3m (dBµV/m)	Margin (dB)
(11112)	(11/ )	(dBµV)	(dB/m)	(dBµV/m)	(uDµ v/III)	(uD)
57.821	Н	5.4	10.6	16.0	40.0	- 24.0
101.616	Н	8.4	12.2	20.6	43.5	- 22.9
139.888	V	8.1	14.4	22.5	43.5	- 21.0
198.893	V	9.4	11.2	20.6	43.5	- 22.9
230.025	Н	9.4	11.8	21.2	46.0	- 24.8
#284.301	Н	9.1	15.4	24.5	46.0	- 21.5
#323.839	Н	8.9	16.8	25.7	46.0	- 20.3

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

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Page 10 of 27

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Report No. : AU0022152(1)

Date : 20 Apr 2016

#### 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:	24	° C
Relative humidity:	80	%

Detector: Quasi-peak RBW: 120kHz VBW: 300kHz

Testing frequency range: 9kHz to 25GHz Operation mode: Receiving

Frequency (MHz)	Polarity (H/V)	Reading at 3m	Antenna Factor and Cable Loss	Field Strength at 3m	Limit at 3m (dBµV/m)	Margin (dB)
(11112)	(11/ )	(dBµV)	(dB/m)	$(dB\mu V/m)$	(uDµ •/III)	(uD)
55.984	Н	5.8	10.6	16.4	40.0	- 23.6
100.676	Н	8.3	12.2	20.5	43.5	- 23.0
140.038	Н	8.4	14.1	22.5	43.5	- 21.0
198.538	Н	9.3	11.2	20.5	43.5	- 23.0
239.103	Н	9.2	13.2	22.4	46.0	- 23.6
#280.179	Н	9.0	15.4	24.4	46.0	- 21.6
312.474	Н	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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Page 11 of 27

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## **TEST REPORT**

Report No. : AU0022152(1)

Date : 20 Apr 2016

## **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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Page 12 of 27

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## **TEST REPORT**

Report No. : AU0022152(1)

Date : 20 Apr 2016

#### 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-UO75-24GT TSup.pdf.

#### 4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename QEA-UO75-24GT ExPho.pdf and QEA-UO75-24GT InPho.pdf.

#### FCC ID: QEA-U075-2G4T

Page 13 of 27

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## **TEST REPORT**

Report No. : AU0022152(1)

Date : 20 Apr 2016

#### 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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Page 14 of 27

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## **TEST REPORT**

Repo	ort No.	: AU0022152(1)		Date :	20 Apr 2016
6	Арре	endices			
	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	

FCC ID: QEA-U075-2G4T

Page 15 of 27

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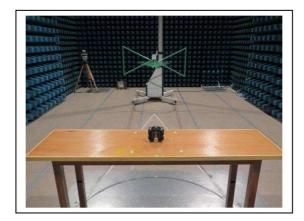


## **TEST REPORT**

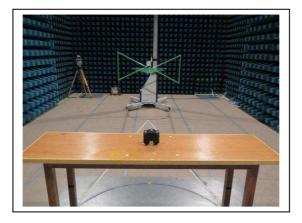
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Photos of the set-up of Radiated Emissions A1.



(Front view, 30MHz - 1GHz)



(Back view, 30MHz - 1GHz)

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Reviewed by:

Mr. WONG Lap-pong, Andrew

FCC ID: QEA-U075-2G4T

Page 16 of 27



## TEST REPORT

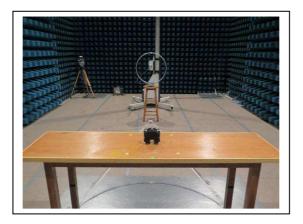
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A1. Photos of the set-up of Radiated Emissions



(Front view, 9KHz - 30MHz)



(Back view, 9KHz - 30MHz)

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Page 17 of 27



## **TEST REPORT**

Report No. AU0022152(1) :

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Photos of the set-up of Radiated Emissions A1.



(front view, 1GHz - 25GHz)



(rear view, 1GHz – 25GHz)

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Page 18 of 27



## **TEST REPORT**

Report No. :

AU0022152(1)

Date :

20 Apr 2016

A2. **Photos of External Configuration** 



**External Configuration 1** 



**External Configuration 2** 

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Page 19 of 27



## **TEST REPORT**

Report No. : AU0022152(1)

Date :

20 Apr 2016

#### **Photos of External Configuration** A2.



**External Configuration 3** 



**External Configuration 4** 

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Page 20 of 27



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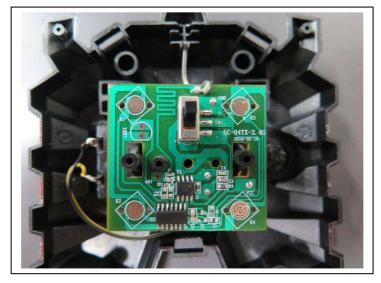
Report No. :

AU0022152(1)

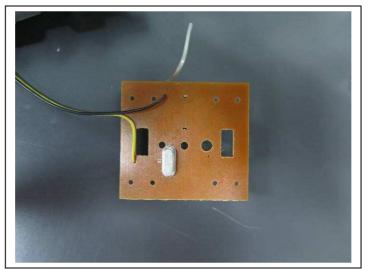
Date :

20 Apr 2016

A3. Photos of Internal Configuration



Internal Configuration 1



Internal Configuration 2

Tested by:

Jen

Mr. LEUNG Shu-kan, Ken

Reviewed by: P.C.

Mr. WONG Lap-pong, Andrew

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Page 21 of 27

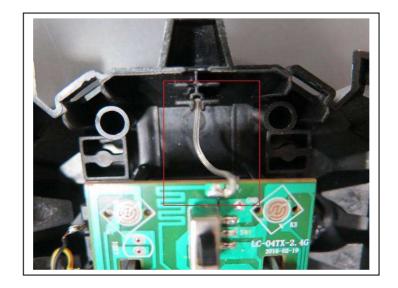


## **TEST REPORT**

Report No. AU0022152(1) :

20 Apr 2016 Date :

#### **EUT Antenna** A4.



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Reviewed by:

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Page 22 of 27



## **TEST REPORT**

Report No. : AU0022152(1)

Date : 20 Apr 2016

#### 2011pi 20



## A5. ID Label/Location

ID Label 1

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Reviewed by: P.C.

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Page 23 of 27



廠商會檢定中心

:

## TEST REPORT

**Band Edge** 

A6.

Report No.

AU0022152(1)

Date :

20 Apr 2016

#### Spectrum (X) Spectrum 2 RefLevel 87.00 Att Mode Auto Sweep TD 1Pk M M2[1] 31.12 dBµV/r 2.400000 GH 61.18 dBµV/r 2.425020 GH 30 dBL M1[1] 70 dBµV M1 60 dBu 50 dBu 40 dBµ Ma 30 dBu 20 dBuV 10 dBµ 0 dBµ\ 10 dBuV 1001 pt: Stop 2.43 GHz start 2.31 GH

Lower edge (Peak measurement)

TDF 1Pk Max			17		
80 dBµV/m-		M2[1] M1[1]		18.89 dBµ∀/n 2.400000 GH: 60.98 dBµ∀/n 2.425020 GH:	
70 dBµV/m	10				M1
60 dBµV/m			-		ľ
50 dBµV/m					
40 dBµV/m-		 			
30 dBµV/m					
20. dBj.V/m		 	M2	۸ <u>ــــــــــ</u>	
10 dBµV/m-					
0 dBµV/m					
-10 dBuV/m					

Lower edge (Average measurement)

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

FCC ID: QEA-U075-2G4T

Page 24 of 27



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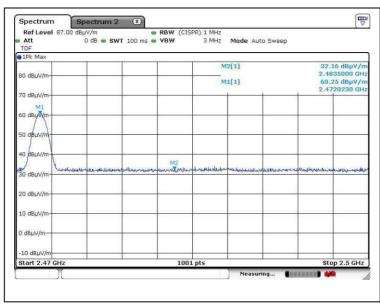
Report No.

AU0022152(1)

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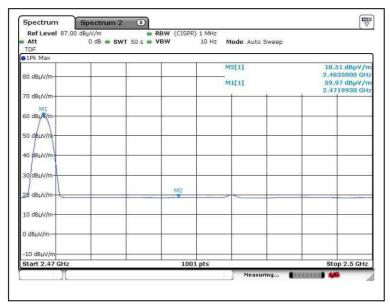
Date :

20 Apr 2016



#### A6. Band Edge

Upper edge (Peak measurement)



Upper edge (Average measurement)

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by: V-C.

Mr. WONG Lap-pong, Andrew

Page 25 of 27



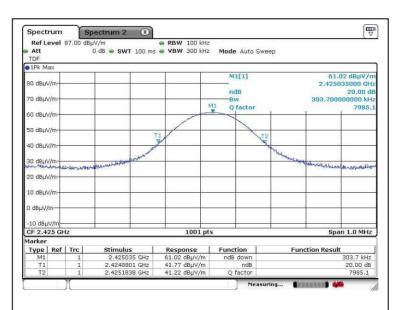
## **TEST REPORT**

Report No.

AU0022152(1)

:

Date : 20 Apr 2016



## A7. 20dB Bandwidth Plot

#### Bandwidth 1 (2405MHz)

		pectrum 2 🙁			
Att	vel 87.00 dB		RBW 100 kHz		-
TDF		0 dB 👄 SWT 100 m	S 📾 YBW 300 KHZ	Mode Auto S	Sweep
●1Pk Ma	×				
				M1[1]	60.53 dBµV/n
80 dBµV,	m-			Constant and	2.444037170 GH
				ndB	20.00 dE
70 dBµV,	m	-		Bw	293.67000000 kH
			MI	Q factor	8321.4
60 dBµV,	m				
ro in u				1	
50 dBµV,	.m-	T1	/	T2	
40 dBuV	-			10	
40 UBHV	10	Jun -		A	4
20 dp/m/	(m.	1 apres			May 1
in the sha	Anthony and Anthony	even adula intration			and the adapter manufacture and a state of the second
20 dBuV	m	2			- Arrestation by A
	410				
10 dBµV,	m-				
	800 B				
0 dBµV/n	n	2 ()	-		
Separate Service	/m				
-10 dBµ\			1001 pts	s	Span 1.0 MHz
CF 2.44	403317 GHz		1001 pt.		
CF 2.44 Marker					
CF 2.44 Marker Type	Ref   Trc	Stimulus	Response	Function	Function Result
CF 2.44 Marker Type M1	Ref Trc	Stimulus 2.44403717 GHz	Response 60.53 dBµV/m	Function	293.67 kHz
CF 2.44 Marker Type	Ref   Trc	Stimulus	Response	Function	

#### Bandwidth 2 (2444MHz)

Reviewed by:

Tested by:

Mr. LEUNG Shu-kan, Ken

Mr. WONG Lap-pong, Andrew

Page 26 of 27



## TEST REPORT

**20dB Bandwidth Plot** 

Report No.

AU0022152(1)

A6.

:

Date : 20 Apr 2016

#### Spectrum Ref Level 87.0 Att µV/m **© RBW** 100 kHz 0 dB **© SWT** 100 ms **© VBW** 300 kHz Mode Auto Sweep TDF 1Pk M M1[1] 60.03 dBµV/i 80 dBµV 2.4720320 O GI 20.00 d 70 dBuV 00 kH 280 7 M of 8532 60 dBuly so de 40 dB 30 dB 20 dBµ\ 10 dBµV 0 dBuV/n -10 dBµV/m CF 2.472 GHz 1001 pts Span 1.0 MHz 1ark Type Ref Trc Stimulus 2.472032 Response Function Function Result 7 kHz 00 dB 32.8 2.4718891 2.4721788 39.73 39.73

#### Bandwidth 3 (2472MHz)

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

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

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Page 27 of 27