

廠商會檢定中心

TEST REPORT

Report No.	:	AU0027125(6)		Date :	16 May 2016	
Application No.	:	LU011136(1)				
Applicant	:	I-Rocks Technology C 12F, No.190, Sec. 2, 7 New Taipei City 2314	Zhongxing Rd., Xindia	n Dist.,		
Sample Description	:	One(1) item of submit of Model No.	ted sample stated to be	e <u>Wireless Do</u>	ongle	
		I-Rock No.	SKU No.			
		DG006	2604602			
		Sample registration N				
		Radio Frequency	: 2408MHz – 247	4MHz Trans	ceiver	
		Rating	: USB 5V			
		No. of submitted samp	ple : Two (2) set (s)			
Date Received	:	31 Mar 2016				
Test Period	:	08 Apr 2016 to 11 Ap	r 2016.			
Test Requested	:	FCC Part 15 Certificat	te			
Test Method	:	47 CFR Part 15 (10-1-15 Edition) ANSI C63.10 - 2013				
Test Engineer	:	Mr. LEUNG Shu-kan, Ken				
Test Result	:	See attached sheet(s) from page 2 to 30.				
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 : _ Page 1 of 30 Mr. WONG Lap-pong Andrew Manager Electrical Division FCC ID: UJ9DG006

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1 General Information

1.1 General Description

The equipment under test (EUT) is a dongle for Wireless dongle. The EUT is power by USB 5V. It operates at 2408MHz - 2474MHz. It is used together with wireless mouse for PC control.

The brief circuit description is listed as follows:

- U1	and its associated circuit act as MCU
- L1, L2, C13	and its associated circuit act as RF circuit
- X1	and its associated circuit act as oscillator

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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, 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	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	02 Aug 2017	2Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9719	9719-010	02 Aug 2017	2Years
Coaxial Cable	Schaffner	RG 213/U	N/A	18 May 2016	1Years
Coaxial Cable	Suhner	RG 214/U	N/A	18 May 2016	1Years
Coaxial Cable	Suhner	Sucoflex_104	N/A	13 Dec 2016	1Years
LISN	R&S	ENV216	101323	21 Oct 2016	1Year
Coaxial Cable	Tyco Electronics	RG 58C/U	N/A	01 Nov 2016	1Year

Support equipment:

Notebook Model: ASUS Transformer Book T200TA SN: E8N0CJ3892833E

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)	4.83dB						
30MHz ~ 200MHz (Vertical)	4.84dB						
200MHz ~1000MHz (Horizontal)	4.87dB						
200MHz ~1000MHz (Vertical)	5.94dB						
1GHz ~6GHz	4.41dB						
6GHz ~18GHz	4.64dB						

Conducted emissions

Frequency	Uncertainty (U _{lab})		
150kHz~30MHz	2.64dB		

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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 placed flat to 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).

It was found that the EUT not meet the FCC requirement

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Date : 16 May 2016

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:	25	°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)
2407.580	Н	51.0	- 4.2	46.8	114.0	- 67.2
#4815.011	V	36.2	3.7	39.9	74.0	- 34.1
#4816.849	Н	38.1	3.7	41.8	74.0	- 32.2
2439.441	Н	49.3	- 4.2	45.1	114.0	- 68.9
#4878.971	V	39.8	3.7	43.5	74.0	- 30.5
2473.471	Н	50.6	- 4.3	46.3	114.0	- 67.7
#4948.690	V	41.3	4.0	45.3	74.0	- 28.7
#4949.179	Н	40.2	4.0	44.2	74.0	- 29.8

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

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:	25	° C
Relative humidity:	80	%

Detector: Quasi-peak Mode; Transmission RBW: 120kHz VBW: 300kHz

Testing frequency range: 9kHz to 25GHz

Frequency (MHz)	Polarity (H/V)	Reading at 3m	Antenna Factor and Cable Loss	Field Strength at 3m	Limit at 3m (dBµV/m)	Margin (dB)
		(dBµV)	(dB/m)	(dBµV/m)	•	
49.986	Н	5.9	12.8	18.7	40.0	- 21.3
100.693	Н	8.4	12.2	20.6	43.5	- 22.9
143.804	Н	8.1	14.1	22.2	43.5	- 21.3
197.168	Н	9.3	11.2	20.5	43.5	- 23.0
#247.551	Н	10.4	13.2	23.6	46.0	- 22.4
295.440	Н	9.4	15.4	24.8	46.0	- 21.2
321.804	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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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 - 2014. The EUT was setup as described in the procedures, and both lines were measured.

3.2 Test Result

The EUT is connected PC.

It was found that the EUT met the FCC requirement.

3.3 Graph and Table of Conducted Emission Measurement Data

The plots in Appendices A7 show the graph and data of conducted emission.

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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 UJ9DG006 TSup.pdf.

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename UJ9DG006 ExPho.pdf and UJ9DG006 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 in Appendices A9 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 2483.5MHz.

The plot in Appendices A8 shows the band edge is fulfil 15.209 requirement.

5.2 EUT Antenna

The plot in Appendices A5 shows the antenna is permanently attached and cannot be changed. Therefore it fulfils the section 15.203 requirement

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	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	1	page	
	A4	Photos of Internal Configurations	1	page	
	A5	EUT Antenna	1	page	
	A6	ID Label/Location	1	page	
	A7	Conducted Emission Measurement Data	2	pages	
	A8	Band Edge	2	pages	
	A9	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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Date : 16 May 2016

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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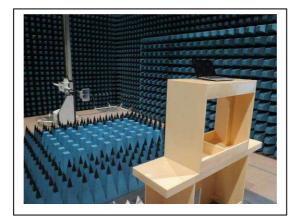
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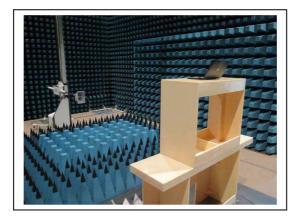
Date :

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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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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



(EUT position)

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Mr. LEUNG Shu-kan, Ken

Reviewed by: P.C.

Mr. WONG Lap-pong, Andrew

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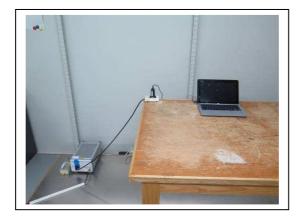
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Date :

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A2 Photos of the set-up of Conducted Emission



(front view)



(rear view)

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Mr. LEUNG Shu-kan, Ken

Reviewed by:

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A2 Photos of the set-up of Conducted Emission



(front view)



(rear view)

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A3. **Photos of External Configuration**



External Configuration 1



External Configuration 2

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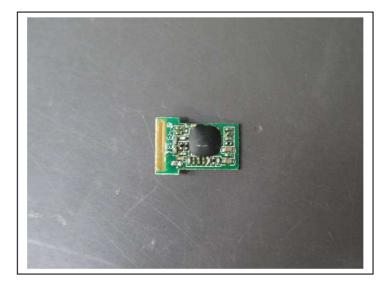
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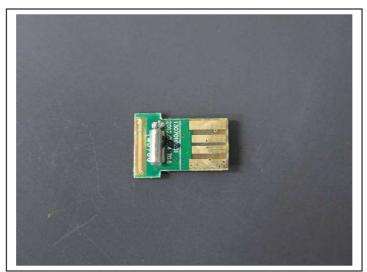
Date :

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Photos of Internal Configuration A4.



Internal Configuration 1



Internal Configuration 2

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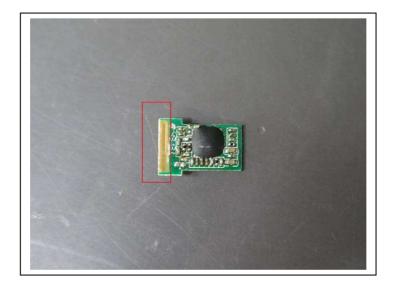


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A5. EUT Antenna



Tested by:

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Reviewed by: P-R

Mr. WONG Lap-pong, Andrew

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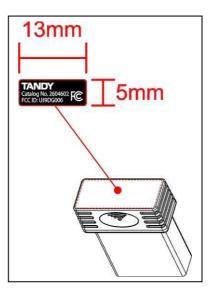
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:

Date :

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A6. ID Label/Location



ID Label 1



ID Label 2

Tested by:

Jen

Mr. LEUNG Shu-kan, Ken

Reviewed by: P-R



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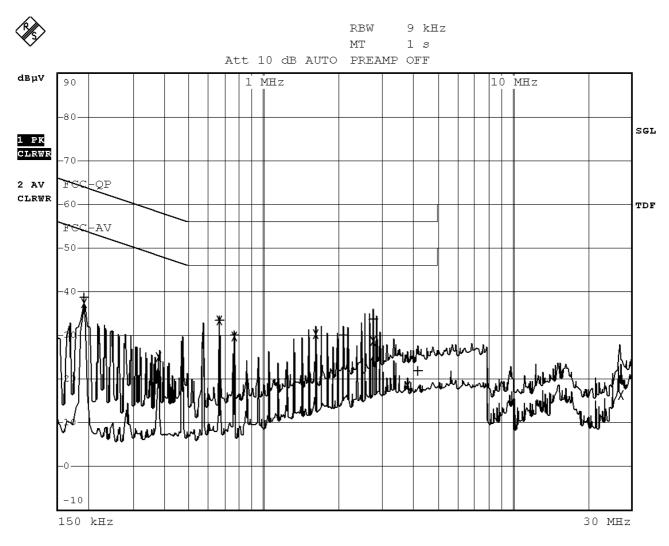
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16 May 2016

A7 Conducted Emission Measurement Date



Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by: P.C.

by: P.C. Mr. WONG Lap popu

Mr. WONG Lap-pong, Andrew

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A7

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Conducted Emission Measurement Date

	EDI	F PEAK LIST (Final	Measurement Resul	ts)			
Tracel:		FCC-QP					
Trace2:		FCC-AV					
Tra	.ce3:						
	TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB			
1	Quasi Peak	190.5 kHz	38.66 L1 gnd	-25.34			
2	Average	190.5 kHz	37.33 L1 gnd	-16.67			
2	Average	379.5 kHz	24.96 N gnd	-23.32			
1	Quasi Peak	666.5 kHz	33.47 L1 gnd	-22.52			
2	Average	666.5 kHz	33.49 L1 gnd	-12.50			
1	Quasi Peak	761 kHz	30.06 L1 gnd	-25.93			
2	Average	761 kHz	29.83 L1 gnd	-16.16			
2	Average	1.6205 MHz	30.38 L1 gnd	-15.61			
1	Quasi Peak	2.0975 MHz	29.97 N gnd	-26.03			
1	Quasi Peak	2.7635 MHz	33.61 N gnd	-22.38			
2	Average	2.7635 MHz	28.83 N gnd	-17.16			
2	Average	3.812 MHz	18.44 L1 gnd	-27.55			
1	Quasi Peak	4.163 MHz	21.97 L1 gnd	-34.03			
2	Average	27.14 MHz	16.34 L1 gnd	-33.66			

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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	pectrum 2 🛞			
Ref Level 77.00 dB		. RBW (CISPR) 1 N		
Att	0 dB 👄 SWT 100 ms	● VBW 3 h	IHz Mode Auto S	iweep
1Pk Max				
			M2[1]	32.03 dBµV/n
70 dBµV/m				2.400000 GH:
			M1[1]	46.66 dBµ¥/n 2.4075500 GH
60 dBµV/m	+ +	-		1
200 - 18 M				
50 dBµV/m	+ +			M1 V
40 dBµV/m				
30 dBuV/m	with participant with a source to the participant	monoror the least a react the	horner har har manual and	montriel when a mark when
30 dBµV/m				
na la vil				
20 dBµV/m-				
10 dBµV/m-				
0 dBµV/m				
-10 dBuV/m	-			
-10 dBµV/m				
-10 dBµV/m -20 dBµV/m				

A8. Band Edge



Ref Level 77.0	0 dBµV/m		RBW (CISP	R) 1 MHz			1	
Att 🗧		/T 100 s 🕳 '			Mode Auto	o Sweep		
TDF						22		
1Pk Max								
and a second second second				M1[1] M2[1]			40.48 dBµV/r 2.4079500 GF 19.17 dBµV/r	
70 dBµV/m		0	а. С					
				20			2.4000000 G	
60 dBµV/m			0	-		1		
50 IS 11								
50 dBµV/m			·					
40 dBµV/m							D	
40 ODD V/m			~	<u> </u>				
30 dBµV/m							n	
oo appiyin								
20. dBuV/m				-	-		-AMAL	
					1 A A			
10 dBµV/m-		-	ç.	2	-			
						1 1		
0 dBµV/m-		2	2	2	-	1 1		
-10 dBµV/m					-			
-20 dBµV/m		8			-			
Start 2.31 GHz	10		100	1 pts			Stop 2.41 GF	

Lower edge (Average measurement)

Reviewed by:

Tested by:

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TEST REPORT

Report No.

AU0027125(6)

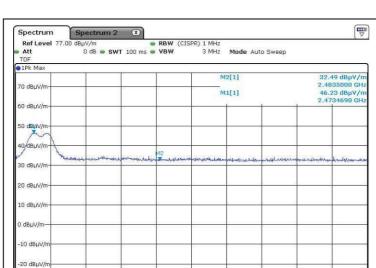
Start 2.472 GHz

:

Date :

Stop 2.5 GHz

16 May 2016



A8. Band Edge

Upper edge (Peak measurement)

1001 pts

Ref Level 77.00 Att TDF	VT 50 s 👄 VBW	10 Hz Mode Auto	Sweep		
1Pk Max 70 dBµV/m- 60 dBµV/m-		M2[1] M1[1]		19.31 dBµV/n 2.4835000 GH: 39.86 dBµV/n 2.4739440 GH:	
50 dBµV/m-					
40 dBu 70m					
30 dBµV/m	 M2				
10 dBµV/m					
0 dBµV/m					
-10 dBµV/m			3		
-20 dBµV/m					
-20 dBµV/m Start 2.472 GHz	1	001 pts		Stop 2.5 G	

Upper edge (Average measurement))

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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A9.

TEST REPORT

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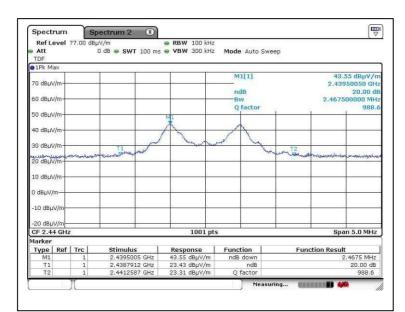
:

Date : 16 May 2016

Spectrum Spectrum 2 µV/m **© RBW** 100 kHz 0 dB **© SWT** 100 ms **© VBW** 300 kHz Ref Level 77.00 Att Mode Auto Sweep TDF 1Pk M M1[1] 45.43 dBµV/r 2.40748550 GH 70 dBuV ndB 20.00 d 60 dBuV. 1.993 DO MH Q fe 1208 50 dBuV 40 dBuV 30 dBj 20 dBuV 10 dBµ\ 0 dBµV/ -10 dBuV/ -20 dBµV/m CF 2.408 GHz 1001 pts Span 5.0 MHz 1arke Type | Ref | Trc Stimulus Response Function Function Result .993 MHz 20.00 dB 1208.0 45.43 25.57 25.29 2.406991 T1 T2

20dB Bandwidth Plot

Bandwidth 1 (2408MHz)



Bandwidth 2 (2440MHz)

Reviewed by:

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Mr. LEUNG Shu-kan, Ken

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TEST REPORT

Report No.

AU0027125(6)

:

Date : 16 May 2016

Spectrum Ref Level Att Mode Auto Sweep TDF 1Pk M M1[1] 45.04 dBµV/r 2,47350550 GH 70 dBuV 20.00 d 60 dBuV 2.192 O f 1128 50 d8u an de 30 dB 20 dBµ 10 dBµ 0 dBµV/ -10 dBuV/ 20 dB CF 2.474 GHz 1001 pt Span 5.0 MHz 1ark Type | Ref | Trc Stimulus Response Function unction Resul 2.4729 20.00 dB 1128.0

A9. 20dB Bandwidth Plot

Bandwidth 3 (2474MHz)

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

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

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FCC ID: UJ9DG006

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