



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AU0027033(4) Date : 16 May 2016

Application No. : LT047591(4)

Applicant : I-Rocks Technology Co., Ltd
12F, No.190, Sec. 2, Zhongxing Rd., Xindian Dist.,
New Taipei City 23146, Taiwan

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

Model No.	SKU No.
SF-C-8510	2604600

Sample registration No. : RU013715-001
Radio Frequency : 2402MHz – 2480 MHz Transceiver
Rating : USB 5V
No. of submitted sample : Three (3) piece (s)

Date Received : 12 Apr 2016

Test Period : 25 Apr 2016 to 13 May 2016.

Test Requested : FCC Part 15 Certificate

Test Method : 47 CFR Part 15 (10-1-14 Edition), ANSI C63.10 – 2013
KDB 558074 D01 DTS Meas Guidance v03r03


Test Engineer : Mr. LEUNG Shu-kan, Ken

Test Result : See attached sheet(s) from page 2 to 39.

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: UJ9-2604600



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1 General Information

1.1 General Description

The equipment under test (EUT) is a Wireless Dongle. The EUT is power by USB 5V. It operates at 2402MHz – 2480MHz. It is used together with wireless mouse or keyboard for PC control.

The brief circuit description is listed as follows:

- U1 and its associated circuit act as MCU and RF circuit
- Y1 and its associated circuit act as oscillator
- U2 and its associated circuit act as flash memory



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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,
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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	1 Year
Spectrum Analyzer	R&S	FSV40	100628	09 Feb 2017	1 Year
Broadband Antenna	Schaffner	CBL6112B	2718	15 Mar 2017	2 Years
Loop Antenna	EMCO	6502	00056620	25 Jan 2018	2 Years
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-531	24 Nov 2016	2 Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9718	9718-119	24 Nov 2016	2 Years
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170442	02 Aug 2017	2 Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9719	9719-010	02 Aug 2017	2 Years
Coaxial Cable	Schaffner	RG 213/U	N/A	18 May 2016	1 Years
Coaxial Cable	Suhner	RG 214/U	N/A	18 May 2016	1 Years
Coaxial Cable	Suhner	Sucoflex_104	N/A	13 Dec 2016	1 Years
LISN	R&S	ENV216	101323	21 Oct 2016	1 Year
Coaxial Cable	Tyco Electronics	RG 58C/U	N/A	01 Nov 2016	1 Year

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 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).

It was found that the EUT not 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:	26	°C
Relative humidity:	68	%

Measurement: Peak RBW: 1MHz VBW: 3MHz

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)
2402.183	H	100.8	- 4.2	96.6	114.0	- 17.4
#4804.363	H	53.9	3.7	57.6	74.0	- 16.4
7206.538	V	49.6	11.5	61.1	74.0	- 12.9
7206.575	H	51.4	11.5	62.9	74.0	- 11.1
2439.660	H	106.7	- 4.2	102.5	114.0	- 11.5
#4879.373	H	57.2	3.7	60.9	74.0	- 13.1
#7318.920	H	57.5	11.5	68.5	74.0	- 5.5
#7318.921	V	53.6	11.5	65.1	74.0	- 8.9
2479.658	H	105.0	- 4.3	100.7	114.0	- 13.3
#4959.337	H	59.4	4.0	63.4	74.0	- 10.6
#7438.971	H	59.2	11.5	70.7	74.0	- 3.3
#7439.003	V	54.9	11.5	66.4	74.0	- 7.6

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:	26	°C
Relative humidity:	68	%

Measurement: Average RBW: 1MHz VBW: 10Hz

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)
2401.886	H	72.5	- 4.2	68.3	94.0	- 25.7
#4803.755	H	38.2	3.7	41.9	54.0	- 12.1
7205.635	H	32.9	11.5	44.4	54.0	- 9.6
7205.677	V	31.5	11.5	43.0	54.0	- 11.0
2439.834	H	76.4	- 4.2	72.2	94.0	- 21.8
#4879.796	H	40.5	3.7	44.2	54.0	- 9.8
#7319.678	V	34.9	11.5	46.4	54.0	- 7.6
#7319.684	H	36.9	11.5	48.4	54.0	- 5.6
2479.850	H	77.6	- 4.3	73.3	94.0	- 20.7
#4959.724	H	42.0	3.7	46.0	54.0	- 8.0
#7439.642	H	38.6	11.5	50.1	54.0	- 3.9
#7439.642	V	35.7	11.5	47.2	54.0	- 6.8

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 C

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	26	°C
Relative humidity:	68	%

Detector: Quasi-peak

Mode: Transmission

RBW: 120kHz

VBW: 300kHz

Testing frequency range: 9kHz to 25GHz

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)
50.021	H	8.0	10.6	18.6	40.0	- 21.4
93.799	H	9.0	10.1	19.1	43.5	- 24.4
141.184	H	8.3	14.1	22.4	43.5	- 21.1
206.031	H	8.4	12.0	20.4	43.5	- 23.1
#259.543	H	8.7	15.4	24.1	46.0	- 21.9
294.976	H	9.4	15.4	24.8	46.0	- 21.2
321.120	H	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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2.4 Data of Conducted Emission

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	26	° C
Relative humidity:	68	%

Measurement: Peak RBW: 1MHz VBW: 3MHz

Frequency (MHz)	Reading (dBm)	Reading (mW)	Limit (mW)	Margin (mW)
2402.189	- 3.95	0.403	1000.0	- 999.597
2439.670	- 1.18	0.762	1000.0	- 999.238
2479.660	0.26	1.062	1000.0	- 998.938



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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

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 UJ9-2604600 TSup.pdf.

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename UJ9-2604600 ExPho.pdf and UJ9-2604600 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 A8 shows the band edge is fulfil 15.205 restricted band and 15.247(d) requirement.

The plot in Appendices A9 shows the 6dB bandwidth has minimum 500kHz for frequency channel 2402MHz, 2440MHz and 2480MHz. It fulfils the section 15.247(a)(2) requirement.

5.2 Power Spectral Density

The plot in Appendices A11 shows the frequency channel 2402MHz, 2440MHz and 2480MHz were not excess 8dBm for 3kHz bandwidth. It fulfils the section 15.247(e) requirement.

5.3 Antenna requirement

Appendices A5 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	4	pages
A2	Photos of the set-up of Radiated Emissions	2	pages
A3	Photos of External Configurations	2	pages
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	6dB Bandwidth Plot	2	pages
A10	99% Bandwidth Plot	2	pages
A11	Power Spectral Density	2	pages
A12	Transmission Power	2	pages



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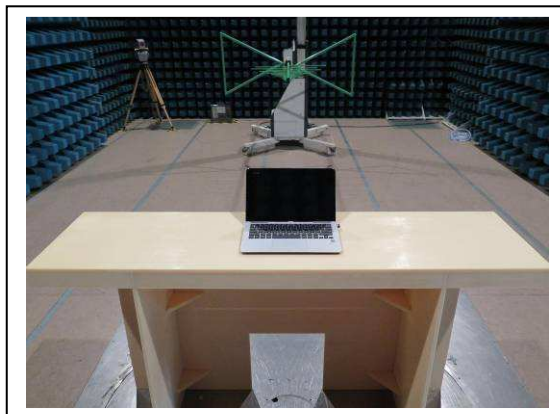
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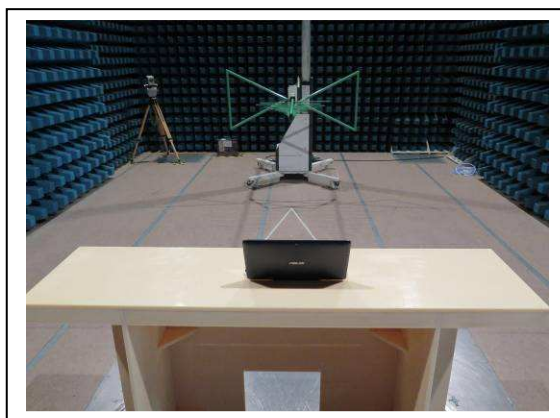
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A1. Photos of the set-up of Radiated Emissions



(Front view, 30Hz – 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)

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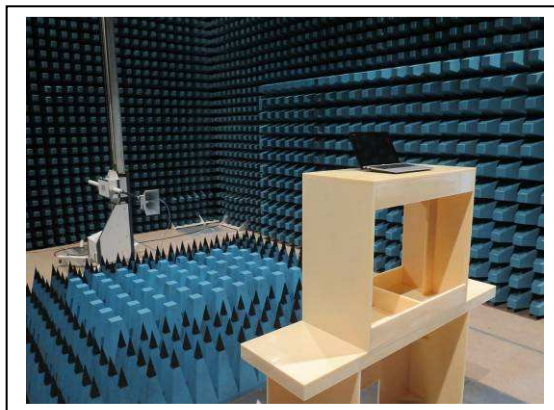
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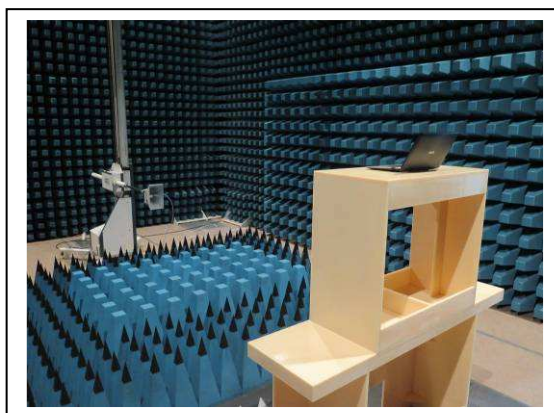
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A1. Photos of the set-up of Radiated Emissions



(Front view, above 1GHz)



(Back view, above 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



(EUT position)

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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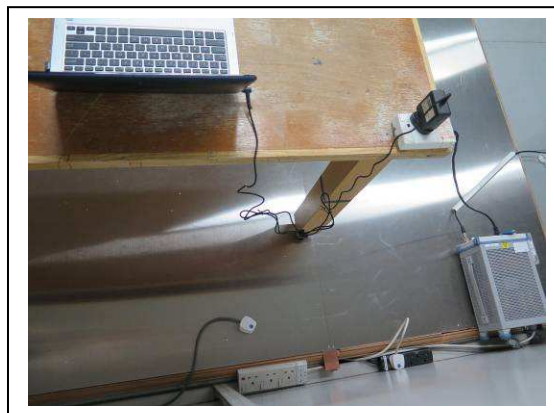
Report No. : AU0027033(4)

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A2. Photos of the set-up of Conducted Emissions



(Front view)



(Back view)

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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A2. Photos of the set-up of Conducted Emissions



(Side view)



(EUT position)

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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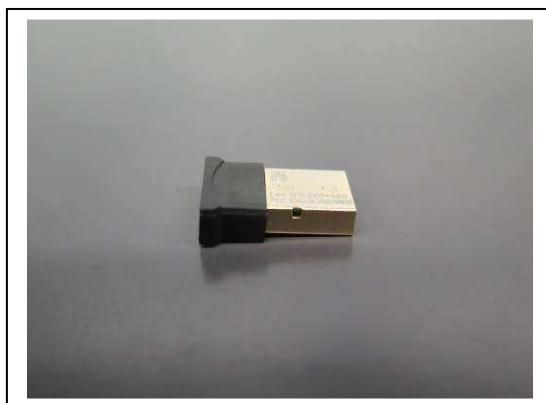
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A3 Photos of External Configurations



External Configuration 1



External Configuration 2

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 Configurations



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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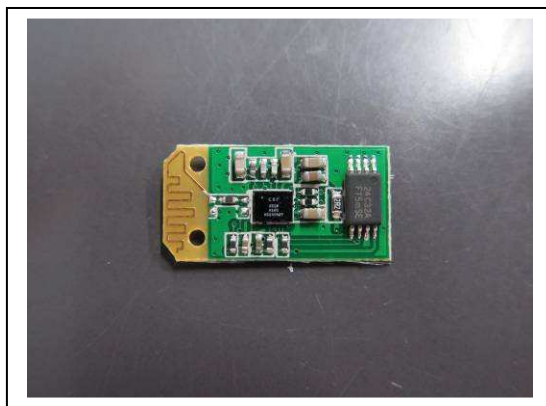
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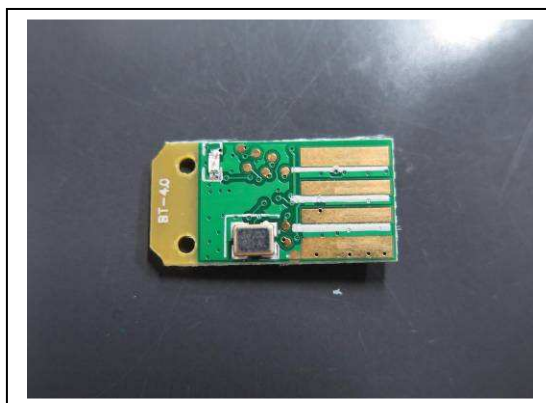
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A4 Photos of Internal Configurations



Internal Configuration 1



Internal Configuration 2

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Mr. WONG Lap-pong, Andrew

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Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatcl.com Web Site: <http://www.cmatcl.com>



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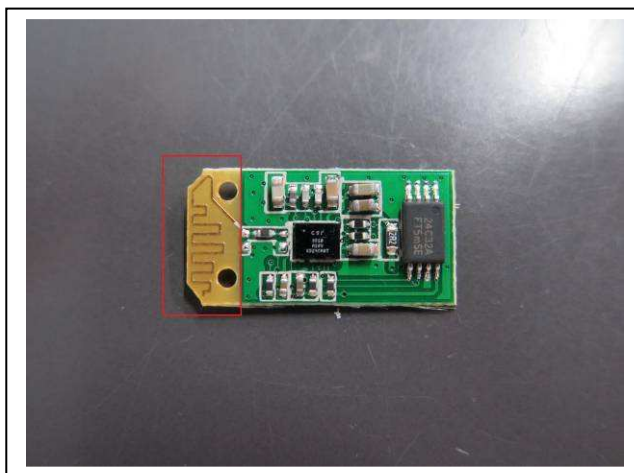
廠商會檢定中心

TEST REPORT

Report No. : AU0027033(4)

Date : 16 May 2016

A5. EUT Antenna



Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



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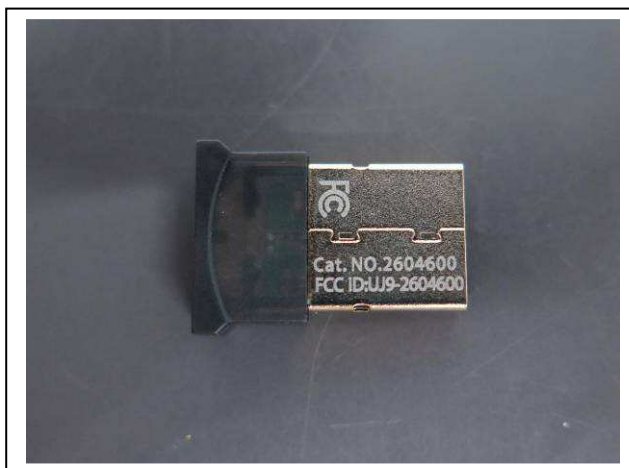
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TEST REPORT

Report No. : AU0027033(4)

Date : 16 May 2016

A6. ID Label / Location



ID Label

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

FCC ID: UJ9-2604600

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Date : 16 May 2016

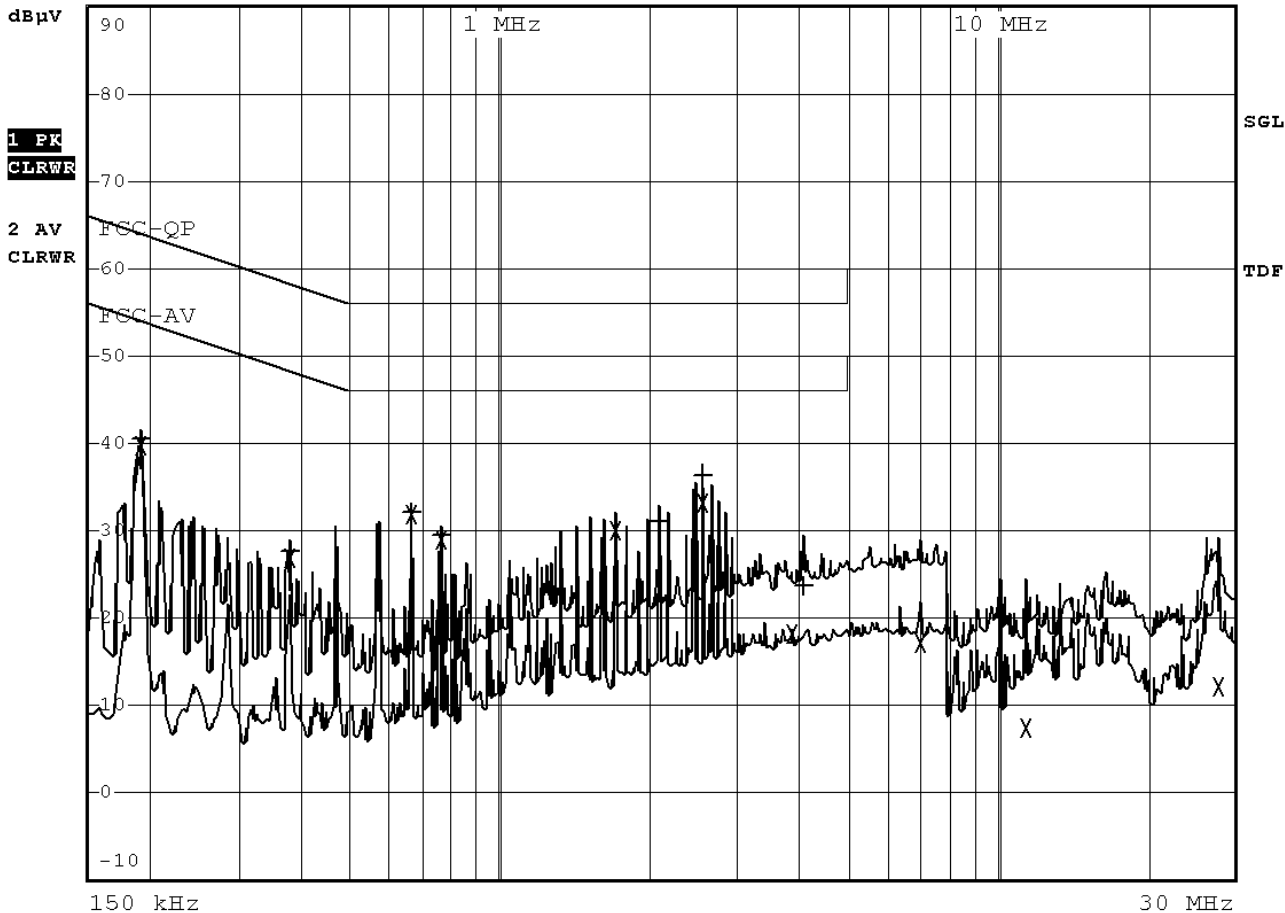
A7 Conducted Emission Measurement Date



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. : AU0027033(4)

Date : 16 May 2016

A7 Conducted Emission Measurement Data

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	FCC-QP			
Trace2:	FCC-AV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB	
1 Quasi Peak	190.5 kHz	40.64 L1 gnd	-23.36	
2 Average	190.5 kHz	39.75 L1 gnd	-14.25	
1 Quasi Peak	379.5 kHz	27.54 N gnd	-30.74	
2 Average	379.5 kHz	26.79 N gnd	-21.50	
1 Quasi Peak	666.5 kHz	32.07 L1 gnd	-23.92	
2 Average	666.5 kHz	31.91 L1 gnd	-14.08	
1 Quasi Peak	761 kHz	29.49 L1 gnd	-26.50	
2 Average	761 kHz	28.86 L1 gnd	-17.13	
2 Average	1.7105 MHz	29.96 L1 gnd	-16.03	
1 Quasi Peak	2.0885 MHz	31.18 L1 gnd	-24.81	
1 Quasi Peak	2.5655 MHz	36.32 N gnd	-19.67	
2 Average	2.5655 MHz	33.16 N gnd	-12.83	
2 Average	3.893 MHz	18.10 L1 gnd	-27.89	
1 Quasi Peak	4.0865 MHz	23.85 N gnd	-32.14	
2 Average	6.989 MHz	17.20 L1 gnd	-32.79	
2 Average	11.435 MHz	7.46 L1 gnd	-42.53	
2 Average	27.824 MHz	12.08 L1 gnd	-37.91	

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



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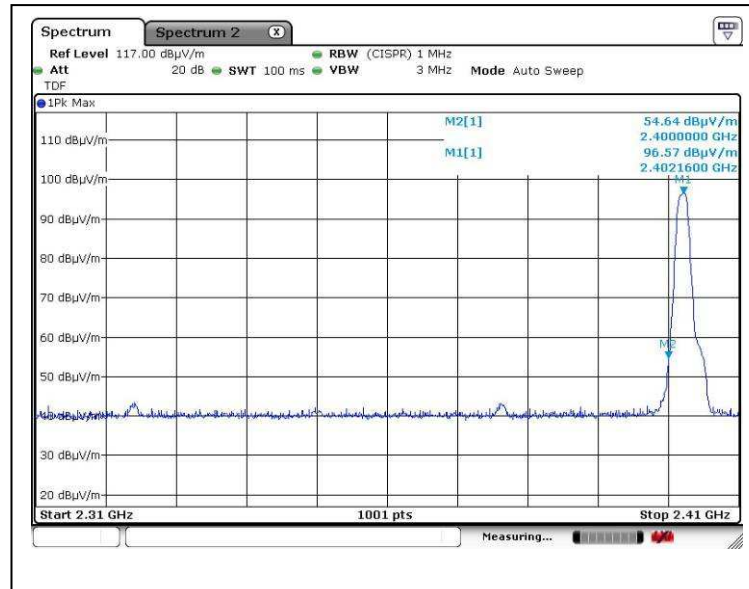
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TEST REPORT

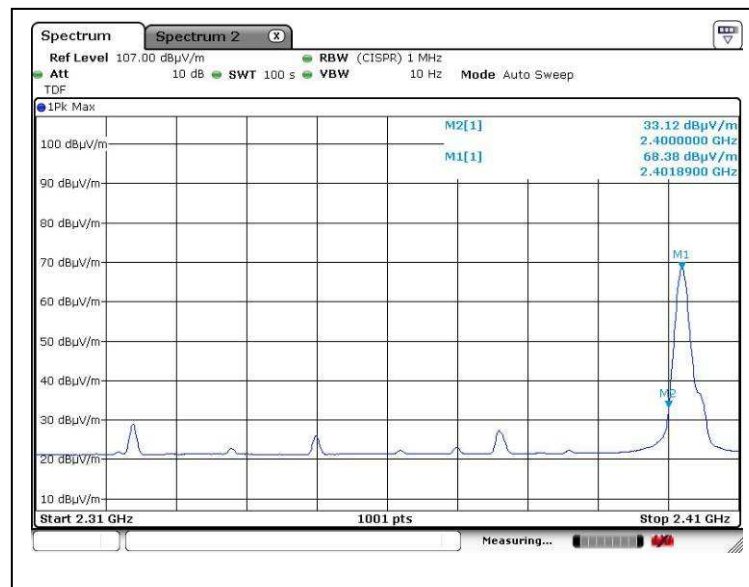
Report No. : AU0027033(4)

Date : 16 May 2016

A8. Band Edge



Lower edge (Peak measurement)



Lower edge (Average measurement)

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Reviewed by:

Mr. WONG Lap-pong, Andrew



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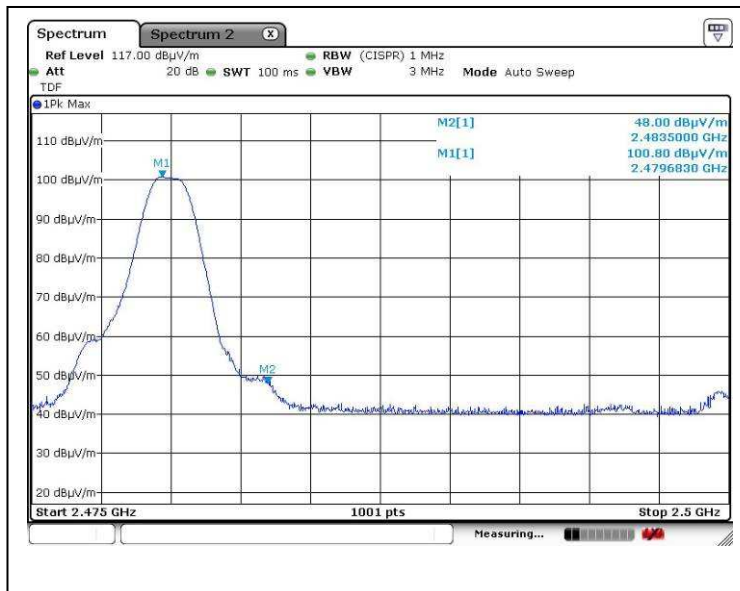
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TEST REPORT

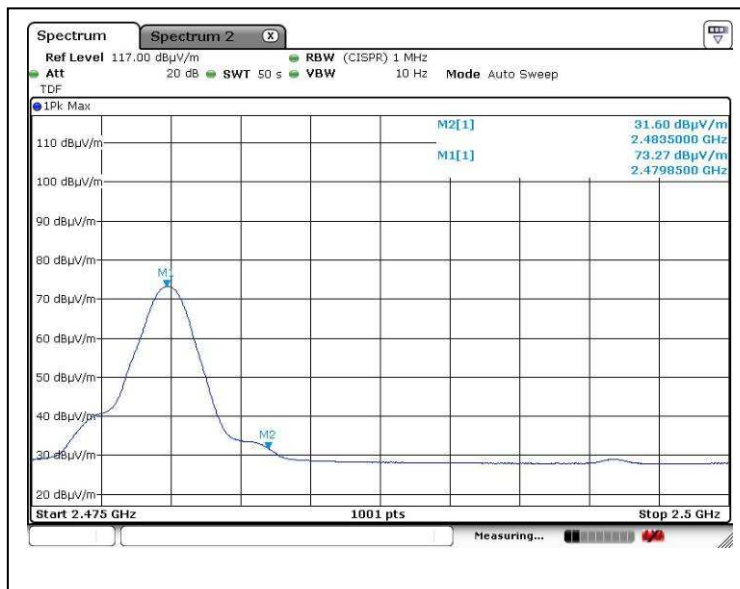
Report No. : AU0027033(4)

Date : 16 May 2016

A8. Band Edge



Higher edge (Peak measurement)



Higher edge (Average measurement)

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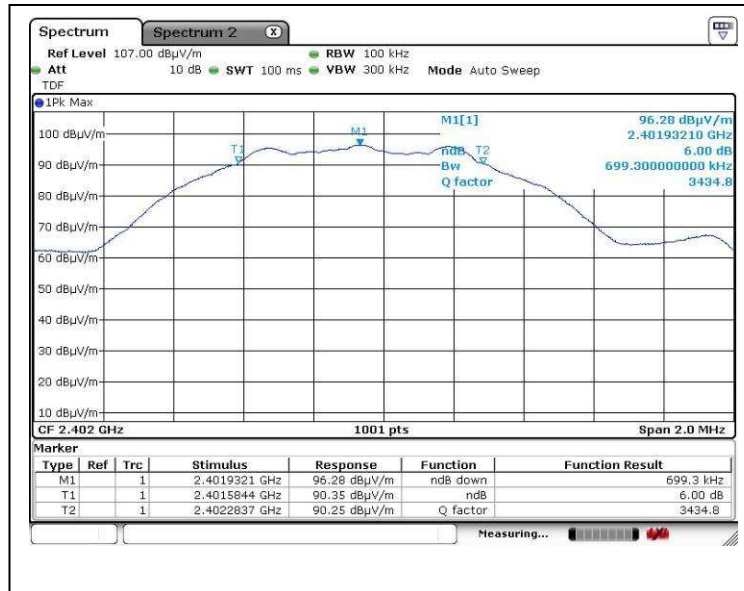
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TEST REPORT

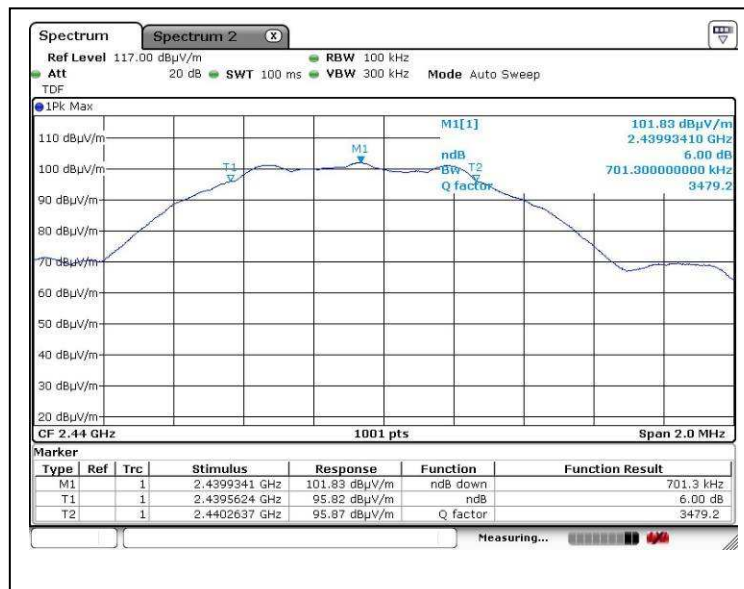
Report No. : AU0027033(4)

Date : 16 May 2016

A9. 6dB Bandwidth Plot



Lower channel



Middle channel

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Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



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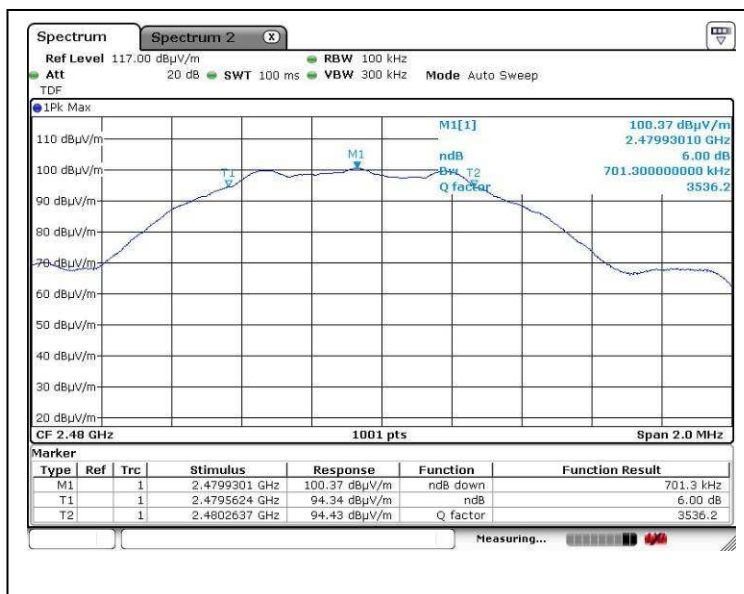
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TEST REPORT

Report No. : AU0027033(4)

Date : 16 May 2016

A9. 6dB Bandwidth Plot



Higher channel

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



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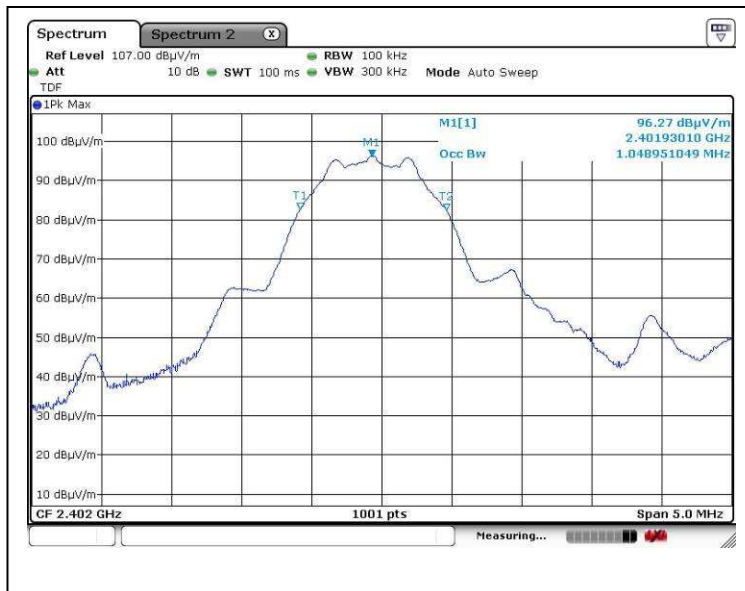
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TEST REPORT

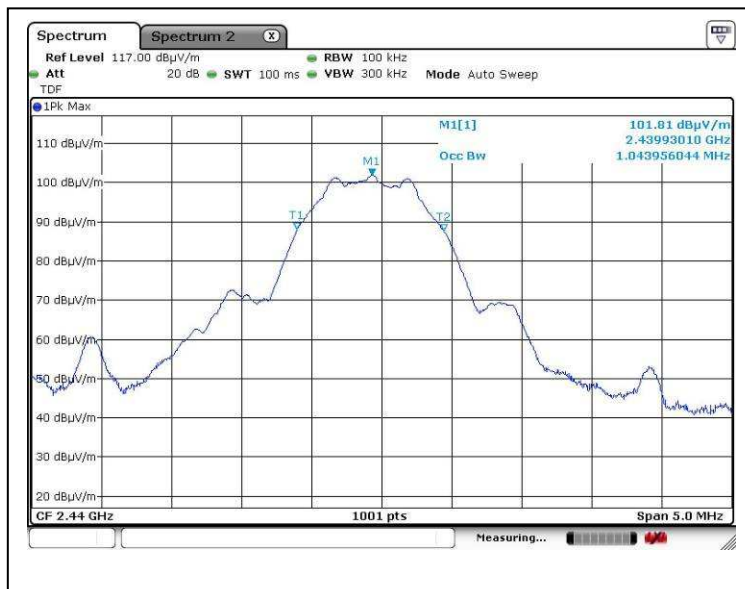
Report No. : AU0027033(4)

Date : 16 May 2016

A10. 99% Bandwidth Plot



Lower channel



Middle channel

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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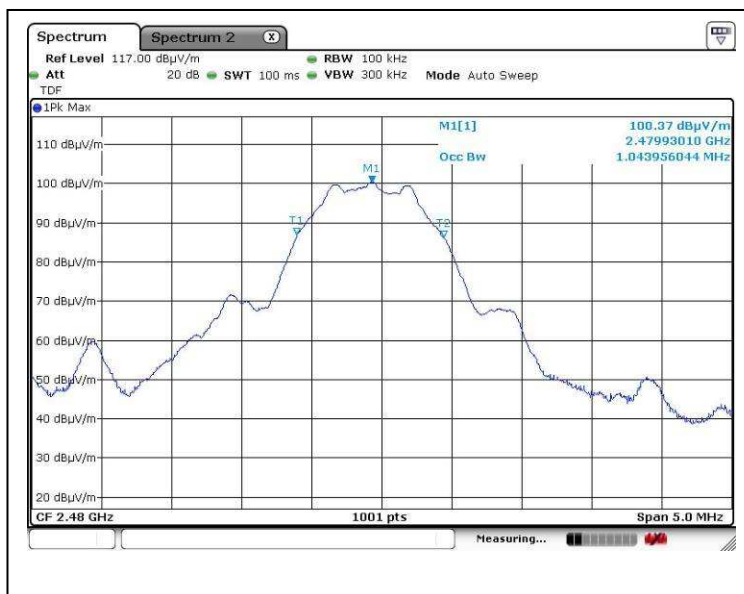
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TEST REPORT

Report No. : AU0027033(4)

Date : 16 May 2016

A10. 99% Bandwidth Plot



Higher channel

Tested by:

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Reviewed by:

Mr. WONG Lap-pong, Andrew



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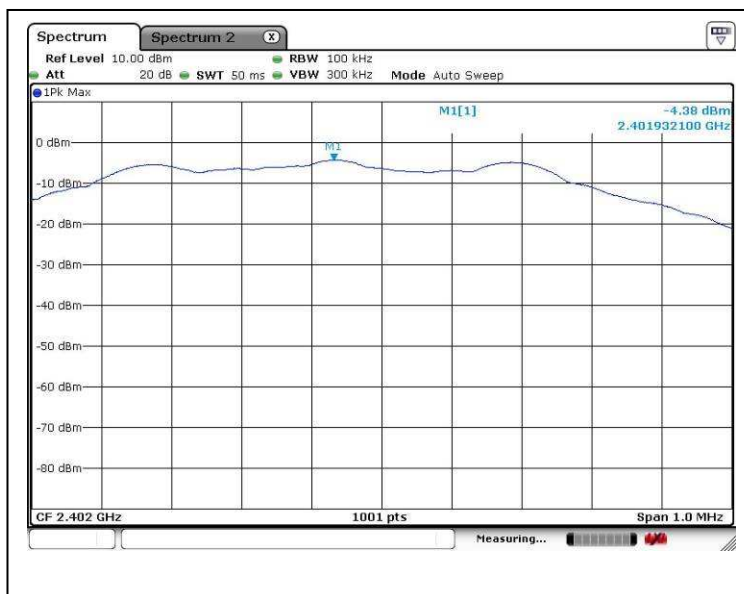
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TEST REPORT

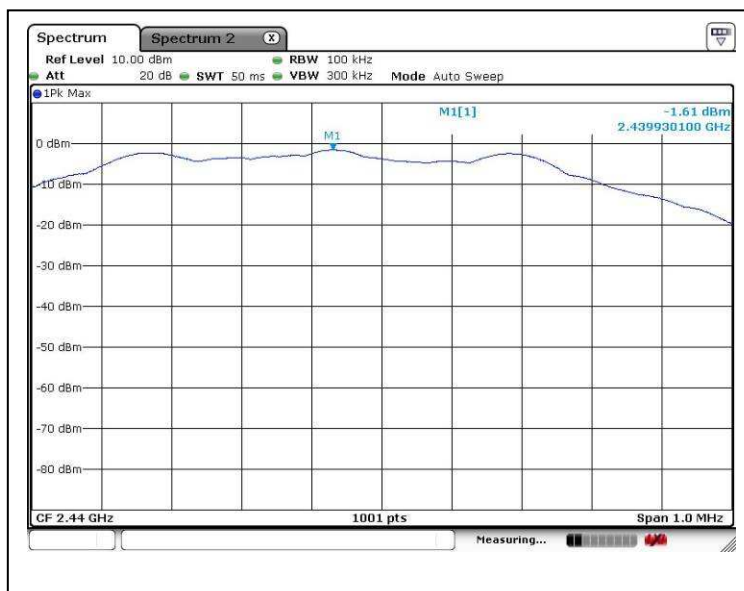
Report No. : AU0027033(4)

Date : 16 May 2016

A11. Power Spectral Density



Lower channel



Middle channel

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Reviewed by:

Mr. WONG Lap-pong, Andrew

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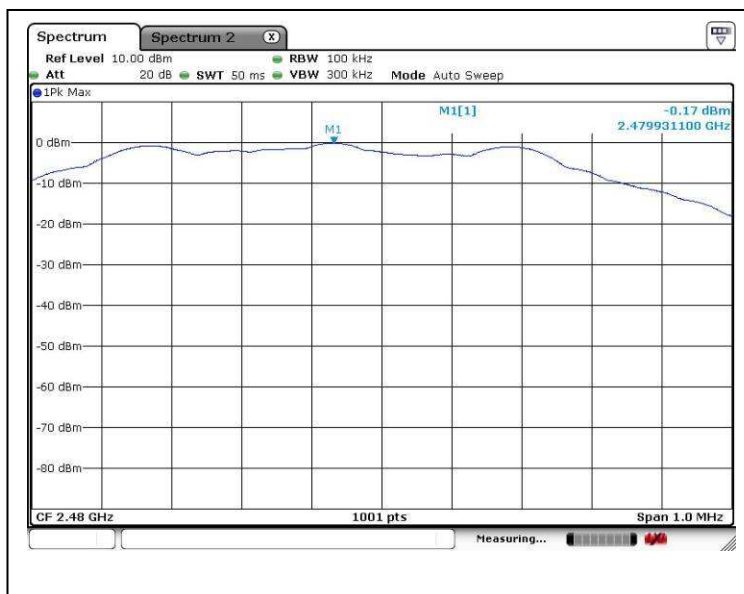
廠商會檢定中心

TEST REPORT

Report No. : AU0027033(4)

Date : 16 May 2016

A11. Power Spectral Density



Higher channel

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



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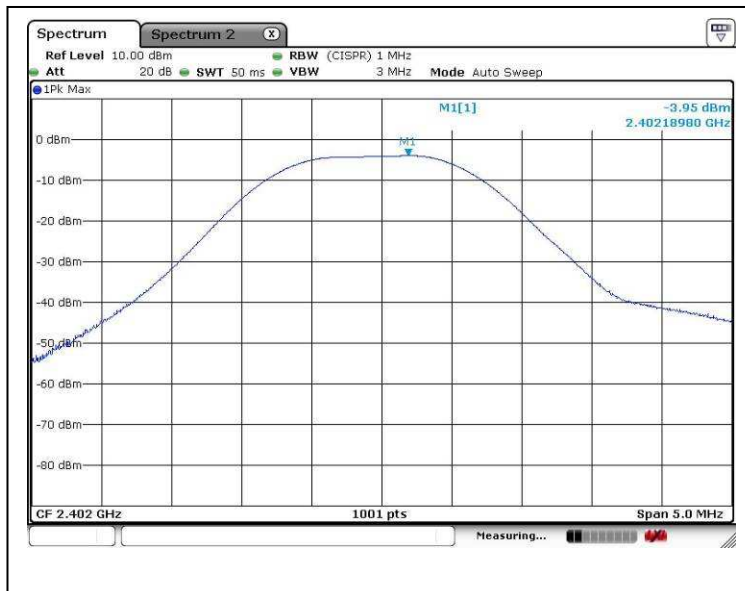
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TEST REPORT

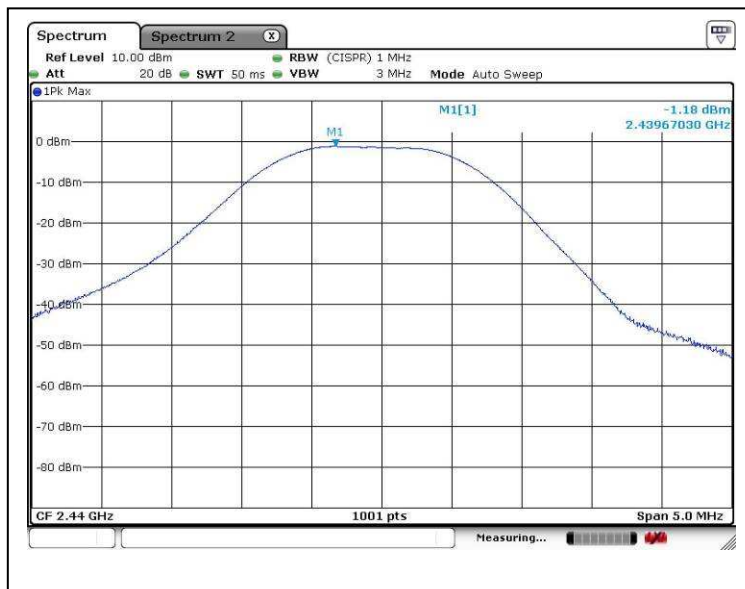
Report No. : AU0027033(4)

Date : 16 May 2016

A12. Transmission Power



Lower channel



Middle channel

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Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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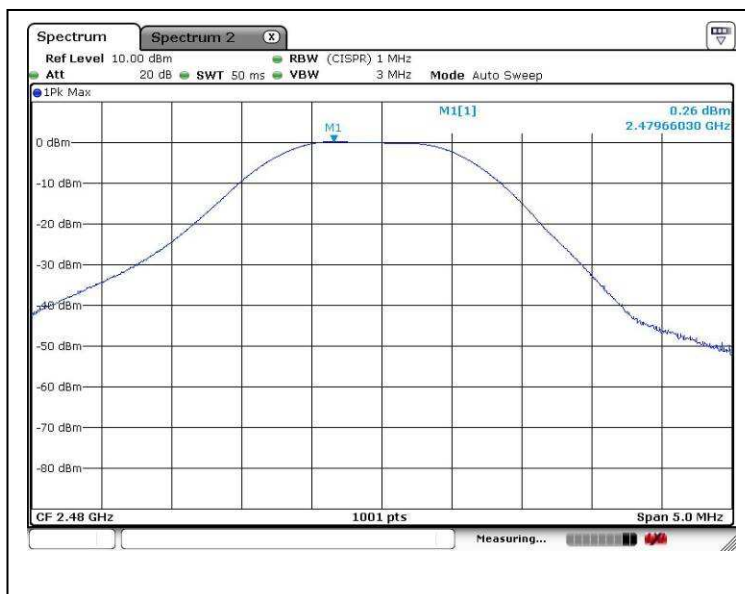
廠商會檢定中心

TEST REPORT

Report No. : AU0027033(4)

Date : 16 May 2016

A12. Transmission Power



Higher channel

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

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew