



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AU0041916(0) Date : 15 Jul 2016

Application No. : LU019151(6)

Applicant : LAVME INC
3500 S.Dupont Hwy, Dover, 19901,
Delaware USA

Sample Description : One(1) item of submitted sample stated to be Zentoy
Sample registration No. : RU028154-001
Radio Frequency : 2402MHz – 2480MHz Transceiver
Rating : USB 5V charging adaptor

Date Received : 06 Jun 2016

Test Period : 18 Jun 2016 to 25 Jun 2016.

Test Requested : FCC Part 15 Certificate (15.247)

Test Method : 47 CFR Part 15 (10-1-14 Edition), ANSI C63.4 – 2014, 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 36.

Conclusion : The submitted sample was found to comply with requirement of FCC Part 15
Subpart B and 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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1 General Information

1.1 General Description

The equipment under test (EUT) is a Vibrator - Sex Toy. The EUT is power by 3.7V rechargeable battery. It operates at 2402MHz – 2480MHz. The EUT is connected with other mobile devices by using an App. When the user using the App, the EUT will take the corresponding action.

The brief circuit description is listed as follows:

- U10 and its associated circuit act as bluetooth module
- U4 and its associated circuit act as MCU
- U2 and its associated circuit act as power regulator
- X1 and its associated circuit act as oscillator
- U3 and its associated circuit act as eeprom
- U6 and its associated circuit act as battery charging

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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	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 2017	1Years
Coaxial Cable	Suhner	RG 214/U	N/A	18 May 2017	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:

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)	4.83dB
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

Subpart B:

Quasi-Peak Detector data were measured unless otherwise stated.

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

The emissions meet the requirement of section 15.109 are based on measurements employing the CISPR quasi-peak detector below 1000MHz and average detector for frequencies above 1000MHz.

The frequencies from 30MHz to 1000MHz were investigated, and emissions more 20dB below limit were not reported. Thus, those highest emissions were presented in next page (section 2.3).

It was found that the EUT meet the FCC requirement.

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2.3 Radiated Emission Measurement Data

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart C

Environmental conditions:

Parameter	Recorded value
Ambient temperature:	26 °C
Relative humidity:	60 %

Measurement: Peak RBW: 1MHz VBW: 3MHz

Testing frequency range: 9kHz to 25GHz Mode: Transmission

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dB μ V)	Transducer Factor (dB/m)	Field Strength at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
2401.715	H	95.5	- 4.2	91.3	114.0	- 22.7
#4803.436	H	54.3	3.7	58.0	74.0	- 16.0
#4804.485	V	56.2	3.7	59.9	74.0	- 14.1
7205.985	V	49.9	11.5	61.4	74.0	- 12.6

2440.257	H	93.2	- 4.2	89.0	114.0	- 25.0
#4879.964	V	52.8	3.7	56.5	74.0	- 17.5
#4880.026	H	54.7	3.7	58.4	74.0	- 15.6
#7319.865	V	49.4	11.5	60.9	74.0	- 13.1

2479.754	H	93.3	- 4.3	89.0	114.0	- 25.0
#4959.500	H	56.2	4.0	60.2	74.0	- 13.8
#4960.419	V	52.6	4.0	56.6	74.0	- 17.4
#7439.935	V	45.2	11.5	56.7	74.0	- 17.3

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:	26 °C
Relative humidity:	60 %

Measurement: Average RBW: 1MHz VBW: 10Hz

Testing frequency range: 9kHz to 25GHz Mode: Transmission

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dB μ V)	Transducer Factor (dB/m)	Field Strength at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
2401.810	H	69.0	- 4.2	64.8	94.0	- 29.2
#4803.894	H	38.5	3.7	42.2	54.0	- 11.8
#4803.908	V	40.1	3.7	43.8	54.0	- 10.2
7205.855	V	31.3	11.5	42.8	54.0	- 11.2

2439.952	H	67.0	- 4.2	62.8	94.0	- 31.2
#4879.886	H	38.9	3.7	42.6	54.0	- 11.4
#4879.914	V	37.4	3.7	41.1	54.0	- 12.9
#7319.865	V	31.4	11.5	42.9	54.0	- 11.1

2479.936	H	66.8	- 4.3	62.5	94.0	- 31.5
#4959.864	H	39.6	4.0	43.6	54.0	- 10.4
#4959.888	V	37.4	4.0	41.4	54.0	- 12.6
#7439.630	V	30.0	11.5	41.5	54.0	- 12.5

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:	60 %

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)
75.277	H	10.6	8.0	18.6	40.0	- 21.4
114.504	H	10.1	12.2	22.3	43.5	- 21.2
160.828	H	8.3	11.9	20.2	43.5	- 23.3
214.658	H	8.2	12.0	20.2	43.5	- 23.3
253.337	H	8.5	15.4	23.9	46.0	- 22.1
291.885	H	9.3	15.4	24.7	46.0	- 21.3
321.902	H	8.8	16.8	25.6	46.0	- 20.4

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:	26 °C
Relative humidity:	60 %

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)
71.044	H	8.0	8.0	16.0	40.0	- 24.0
114.481	H	10.2	12.2	22.4	43.5	- 21.1
164.850	H	8.1	11.9	20.0	43.5	- 23.5
224.258	H	8.9	11.8	20.7	46.0	- 25.3
264.632	H	8.7	15.4	24.1	46.0	- 21.9
289.200	H	9.2	15.4	24.6	46.0	- 21.4
320.475	H	8.8	16.8	25.6	46.0	- 20.4

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:	26 °C
Relative humidity:	60 %

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)
75.050	H	10.5	8.0	18.5	40.0	- 21.5
116.856	H	10.2	12.2	22.4	43.5	- 21.1
162.730	H	8.1	11.9	20.0	43.5	- 23.5
225.960	H	8.9	11.8	20.7	46.0	- 25.3
263.749	H	8.6	15.4	24.0	46.0	- 22.0
307.333	H	8.2	16.8	25.0	46.0	- 21.0
335.754	H	9.3	16.8	26.1	46.0	- 19.9

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:	60 %

Measurement: Peak RBW: 1MHz VBW: 3MHz

Frequency (MHz)	Reading (dBm)	Reading (mW)	Limit (mW)	Margin (mW)
2401.730	- 7.78	0.167	1000.0	- 999.833
2439.735	- 7.87	0.163	1000.0	- 999.837
2479.730	- 8.27	0.149	1000.0	- 999.851

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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 connected to an adaptor for charging

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 2AIVH-GC730692 TSup.pdf.

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename 2AIVH-GC730692 ExPho.pdf and 2AIVH-GC730692 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 A7 shows the band edge is fulfil 15.205 restricted band, 15.247(d) requirement.

The plot in Appendices A8 shows the 6dB bandwidth has minimum 500kHz for frequency channel 2402MHz, 2440MHz and 2480MHz. It fulfills the section 15.247(a)(2) requirement.

5.2 Power Spectral Density

The plot in Appendices A9 shows the frequency channel 2402MHz, 2440MHz and 2480MHz were not excess 8dBm for 3kHz bandwidth. It fulfills the section 15.247(e) requirement.

5.3 Antenna requirement

Appendices A4 shows the antenna is permanently attached and cannot be changed. Therefore it fulfills the section 15.203 requirement

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6 Appendices

A1	Photos of the set-up of Radiated Emissions	3	pages
A2	Photos of the set-up of Conducted Emissions	1	page
A3	Photos of External Configurations	1	page
A4	Photos of Internal Configurations	2	pages
A5	ID Label/Location	1	page
A6	Conducted Emission Measurement Data	2	pages
A7	Band Edge	2	pages
A8	6dB Bandwidth Plot	2	pages
A9	Power Spectral Density	2	pages
A10	Transmission Power	2	pages

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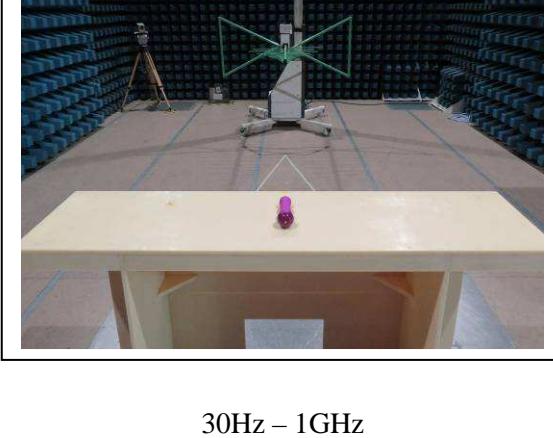
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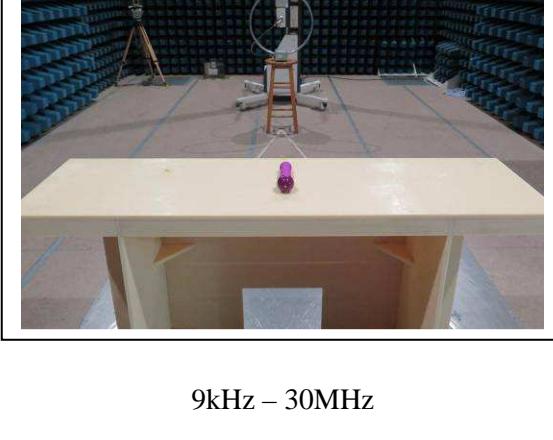
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A1. Photos of the set-up of Radiated Emissions



30Hz – 1GHz



9kHz – 30MHz

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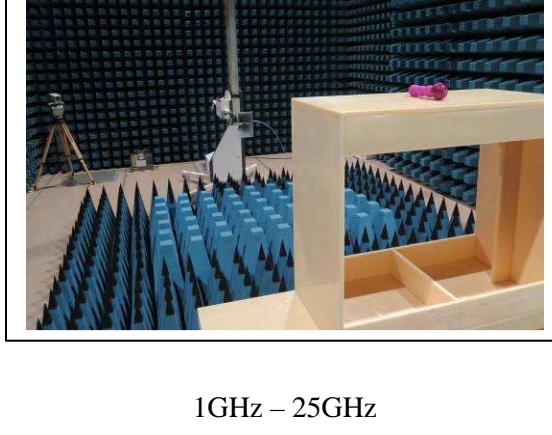
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A1. Photos of the set-up of Radiated Emissions



1GHz – 25GHz

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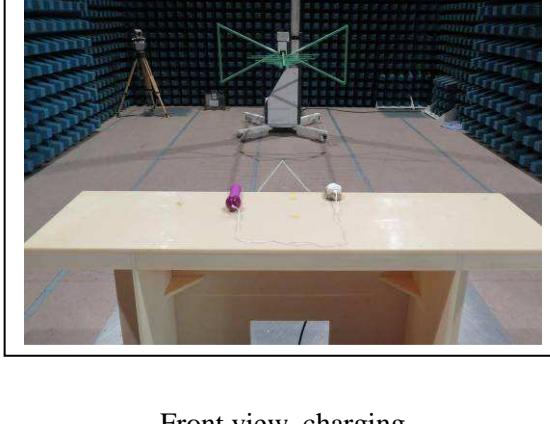
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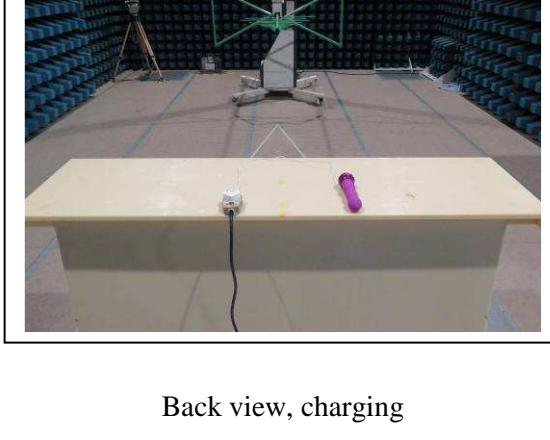
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A1. Photos of the set-up of Radiated Emissions



Front view, charging



Back view, charging

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Mr. LEUNG Shu-kan, Ken

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Mr. WONG Lap-pong, Andrew

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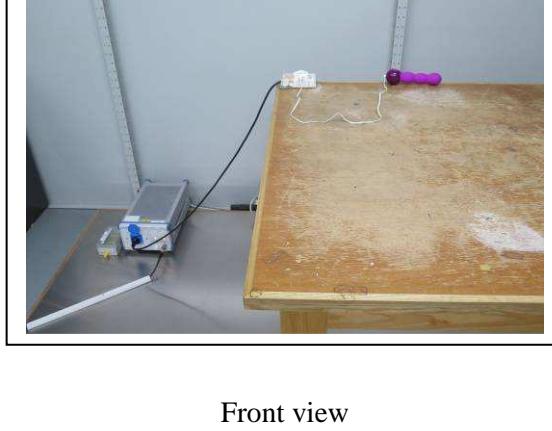
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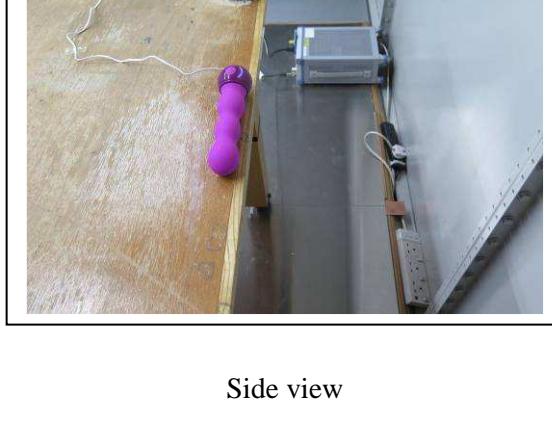
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A2. Photos of the set-up of Conducted Emissions



Front view



Side view

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Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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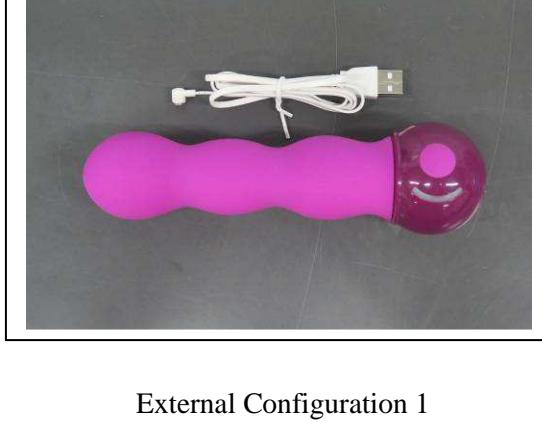
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TEST REPORT

Report No. : AU0041916(0)

Date : 15 Jul 2016

A3 Photos of External Configurations



External Configuration 1

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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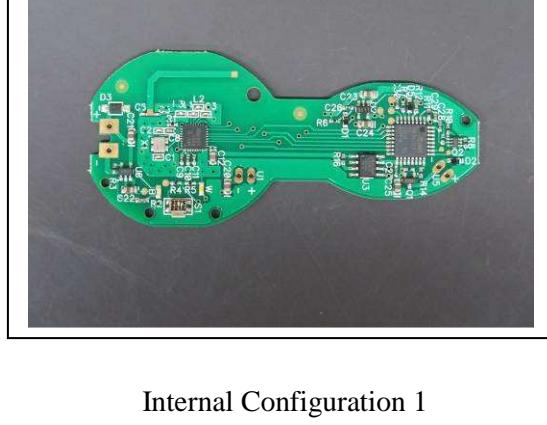
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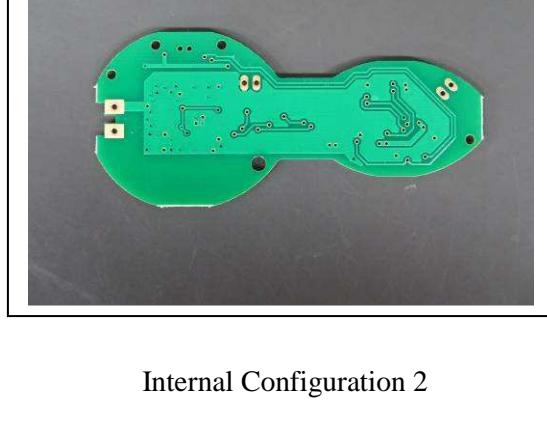
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A4 Photos of Internal Configurations



Internal Configuration 1



Internal Configuration 2

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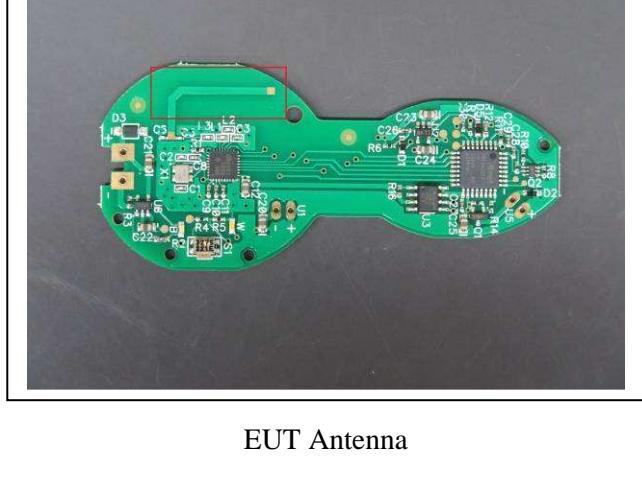
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TEST REPORT

Report No. : AU0041916(0)

Date : 15 Jul 2016

A4 Photos of Internal Configurations



EUT Antenna

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TEST REPORT

Report No. : AU0041916(0)

Date : 15 Jul 2016

A5 ID Label / Location



ID Label 1

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Mr. WONG Lap-pong, Andrew

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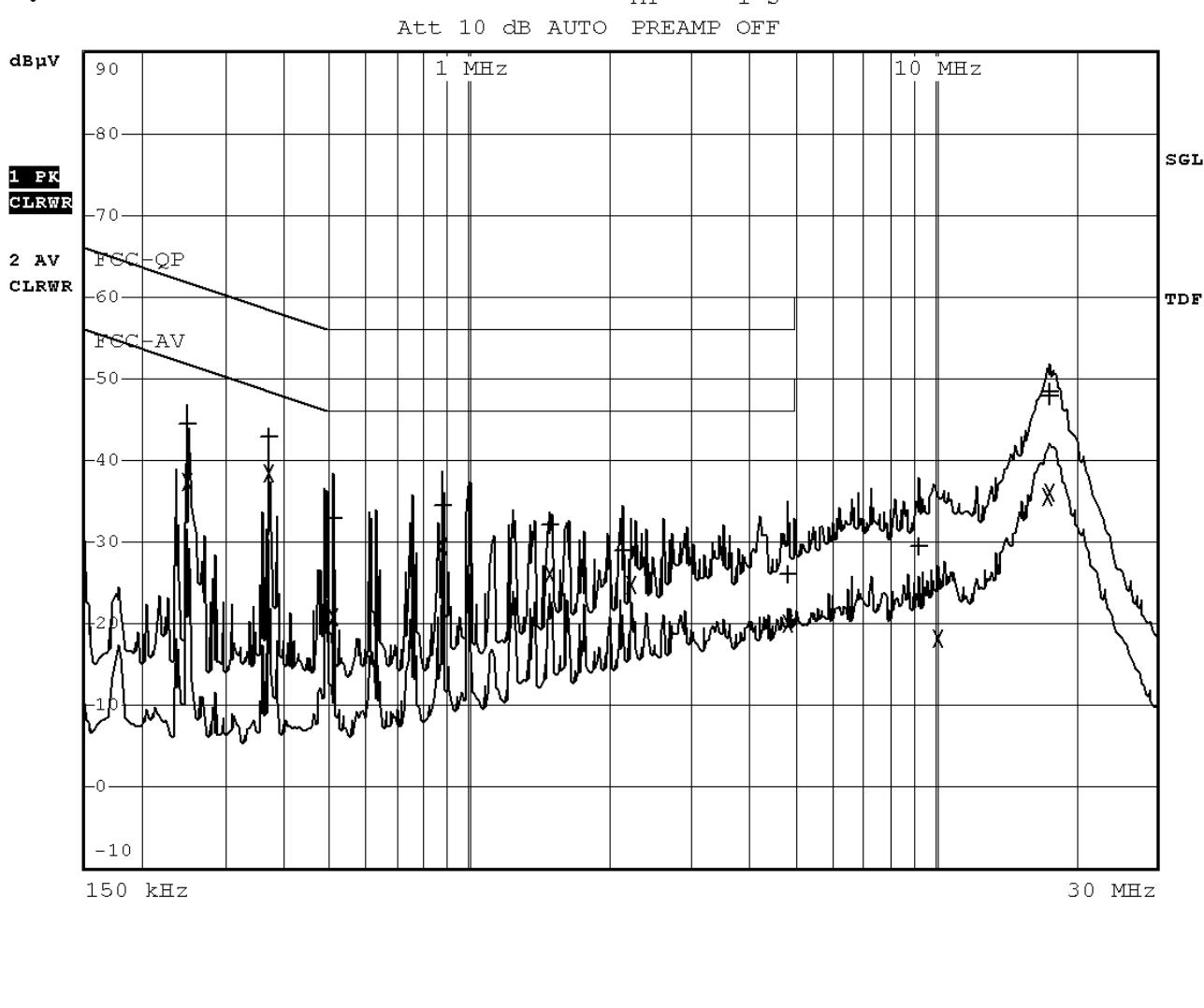
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TEST REPORT

Report No. : AU0041916(0)

Date : 15 Jul 2016

A6 Conducted Emission Measurement Date



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TEST REPORT

Report No. : AU0041916(0)

Date : 15 Jul 2016

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	
1 Quasi Peak	249 kHz	44.49	N gnd	-17.29	
2 Average	249 kHz	37.35	N gnd	-14.43	
1 Quasi Peak	375 kHz	42.84	N gnd	-15.54	
2 Average	375 kHz	38.53	N gnd	-9.85	
1 Quasi Peak	509 kHz	32.83	N gnd	-23.16	
2 Average	509 kHz	20.77	N gnd	-25.22	
1 Quasi Peak	873.5 kHz	34.51	L1 gnd	-21.48	
2 Average	873.5 kHz	29.48	N gnd	-16.51	
1 Quasi Peak	1.49 MHz	32.25	N gnd	-23.74	
2 Average	1.49 MHz	26.20	N gnd	-19.79	
1 Quasi Peak	2.1425 MHz	28.93	N gnd	-27.06	
2 Average	2.237 MHz	24.79	N gnd	-21.21	
2 Average	4.8245 MHz	19.97	N gnd	-26.02	
1 Quasi Peak	4.847 MHz	26.12	N gnd	-29.88	
1 Quasi Peak	9.2435 MHz	29.60	N gnd	-30.39	
2 Average	10.157 MHz	18.27	L1 gnd	-31.72	
2 Average	17.465 MHz	35.50	N gnd	-14.49	
1 Quasi Peak	17.5955 MHz	47.94	N gnd	-12.05	
1 Quasi Peak	17.6675 MHz	48.26	N gnd	-11.73	
2 Average	17.6675 MHz	36.02	N gnd	-13.97	

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



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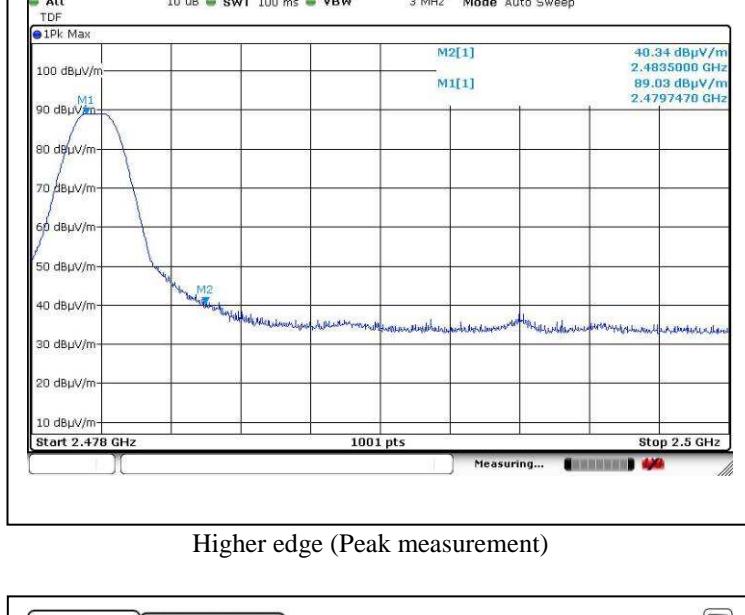
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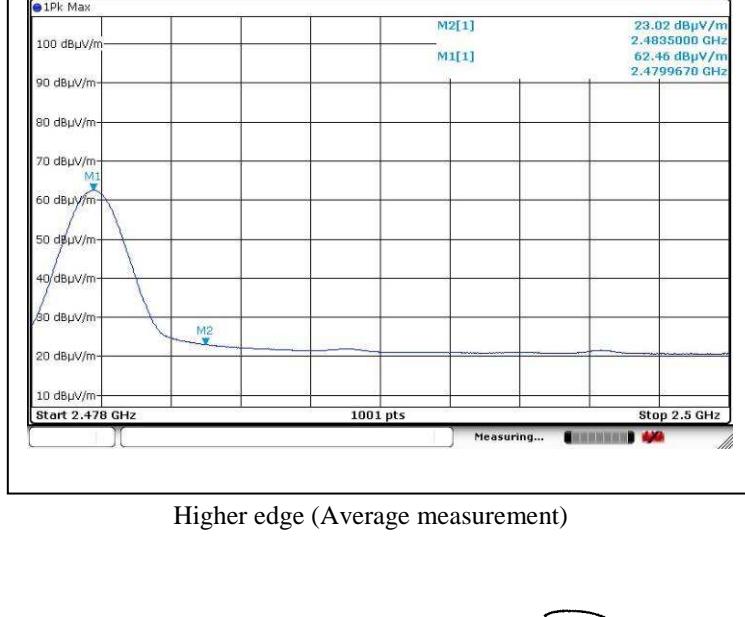
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Date : 15 Jul 2016

A7. Band Edge



Higher edge (Peak measurement)



Higher edge (Average measurement)

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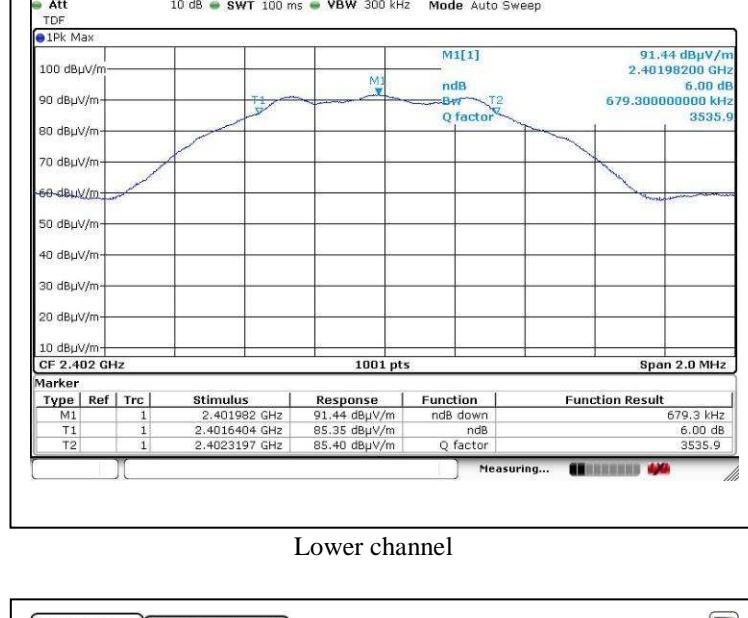
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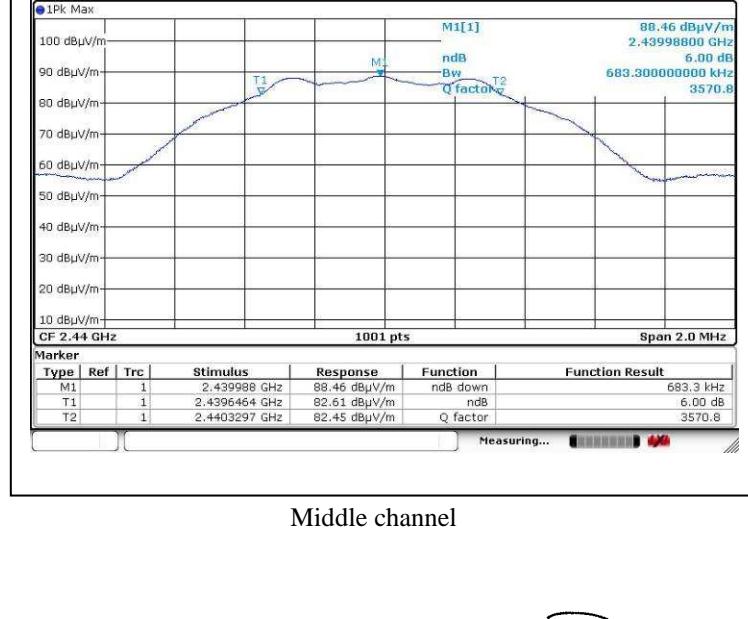
Report No. : AU0041916(0)

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A8. 6dB Bandwidth Plot



Lower channel



Middle channel

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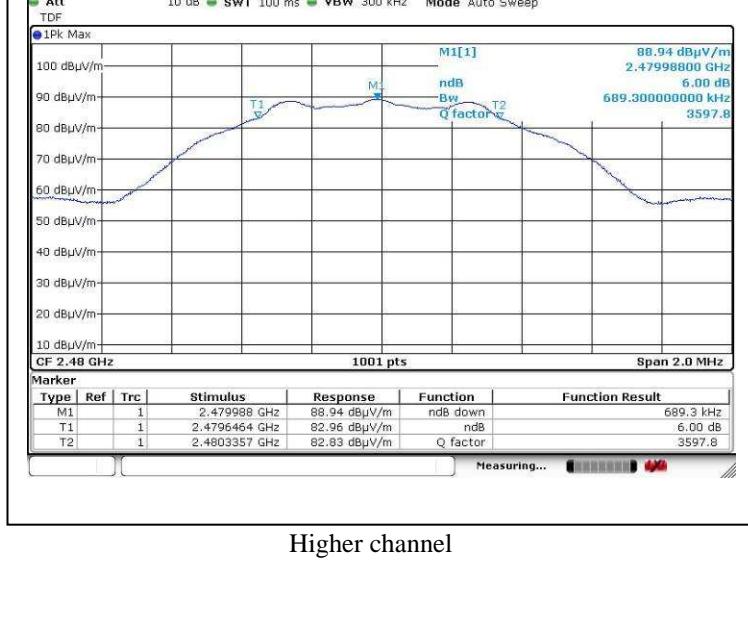
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A8. 6dB Bandwidth Plot



Higher channel

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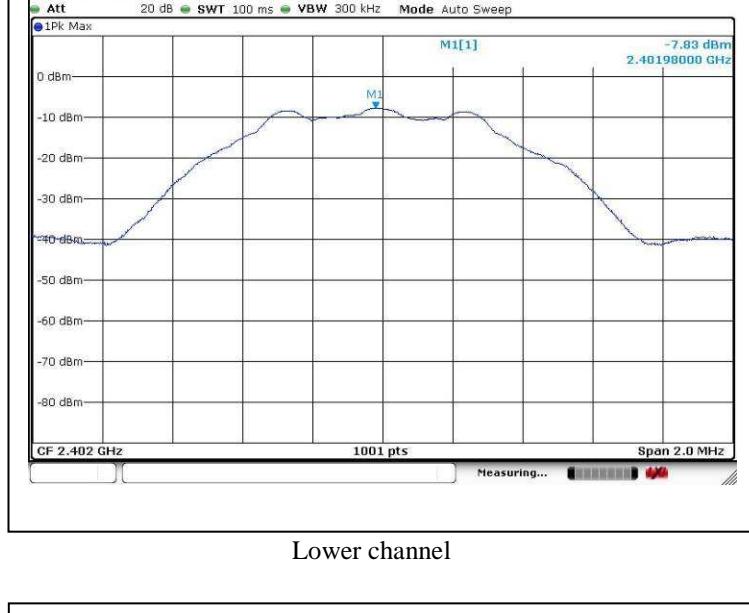
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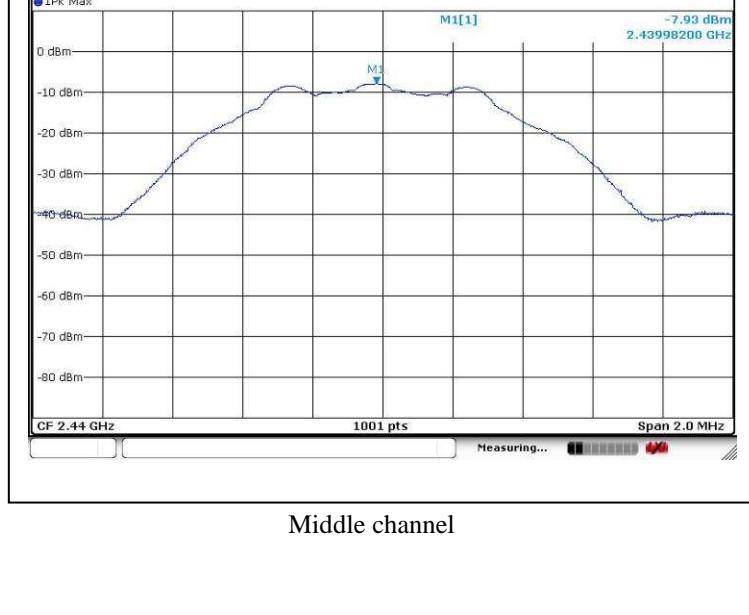
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Date : 15 Jul 2016

A9. Power Spectral Density



Lower channel



Middle channel

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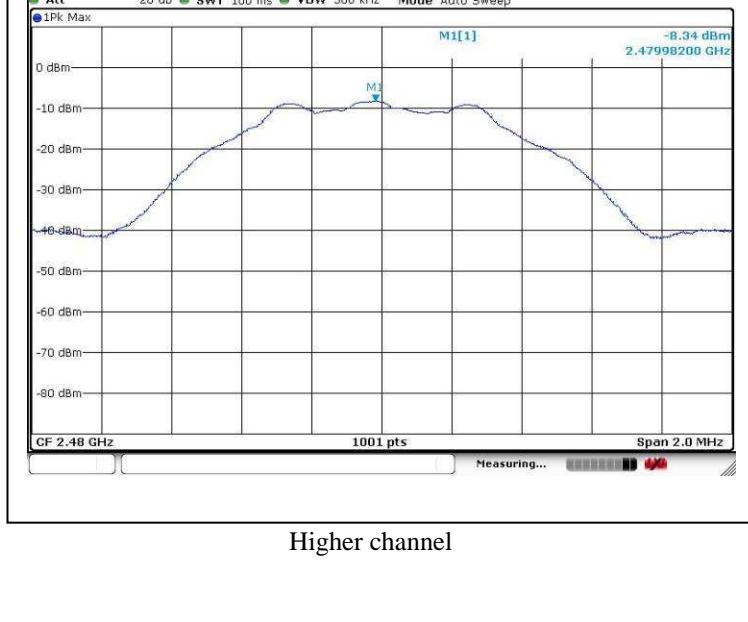
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Report No. : AU0041916(0)

Date : 15 Jul 2016

A9. Power Spectral Density



Higher channel

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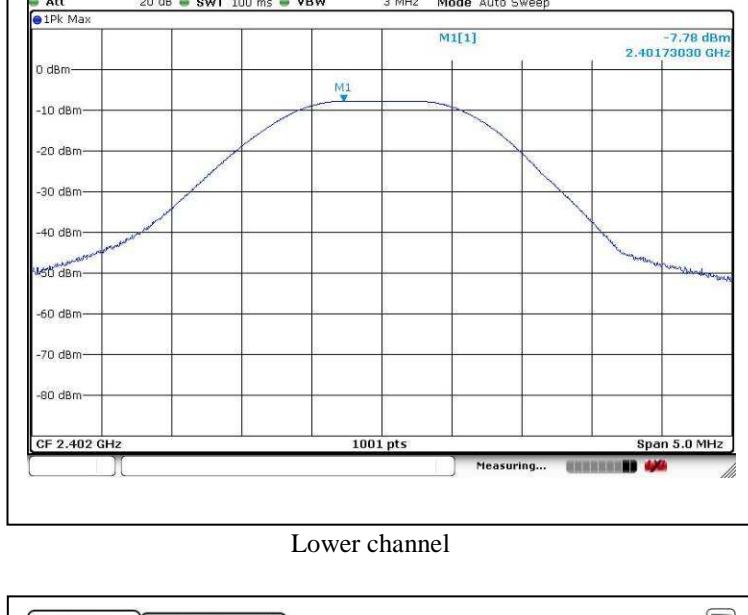
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TEST REPORT

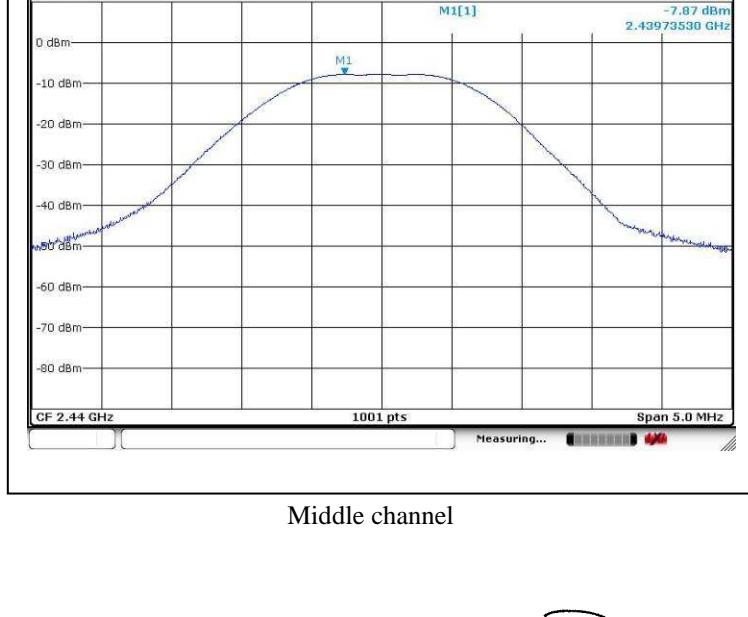
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Date : 15 Jul 2016

A10. Transmission Power



Lower channel



Middle channel

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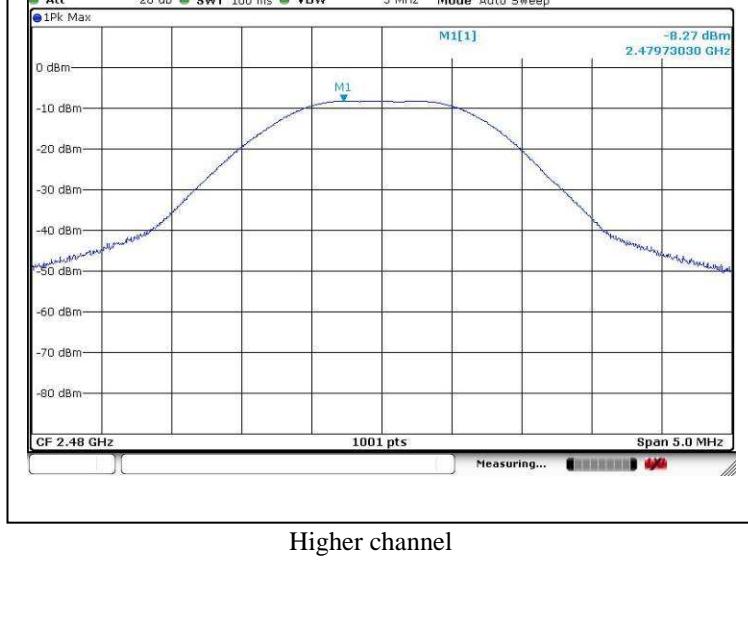
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TEST REPORT

Report No. : AU0041916(0)

Date : 15 Jul 2016

A10. Transmission Power



Higher channel

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

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