



CMA Testing and Certification Laboratories

Application No. LT046279(6)

Client : Control Comp

Texas 77546 USA

1 Hok Cheung Street, Hung Hom, Kowloon, Hong Kong

Sample registration No. : RT054154-001, RT054509-002
Radio Frequency : 2412MHz – 2462 MHz Transceiver
Power Output : 1.5W (AISI 1, 1000mW)

Rating : 4 x 1.5V AAA size batteries
No. of submitted sample : Four (4) piece (s)

12 Nov 2015, 16 Nov 2015

Test Period : 23 Nov 2013 to 04 Dec 2013

Test Requested : FCC Part 15 Certificate (15.2)
Industry Canada Interference

Test Method : 47 CFR Part 15 (10-1-14 Edition), ANSI C63.10 – 2013
Industry Canada RSS-Gen Issue 4

Test Engineer : Mr. LEUNG Shu-kan, Ken

Conclusion: The submitted sample was found to be a mixture of $\text{Ca}_3(\text{PO}_4)_2$ and $\text{Ca}_5(\text{PO}_4)_3(\text{OH})$.

Subpart C and Industry Canada RSS-247

For and on behalf of
CMA Industrial Development Foundation Limited

24.

Electrical Division

Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St., Fo Tan, Shatin, N.T., Hong Kong.

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CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AT0079620(2)

Date : 10 Dec 2015

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1 General Information

1.1 General Description

The equipment under test (EUT) is a Wifi Temperature sensor. The EUT is power by 4 x 1.5V AAA sizes batteries. It operates at 2412MHz – 2462MHz. The EUT will use sensor probe to record the temperature and using Wifi connection to store the data. The USB ports are only for sensor probes connection. They are no use for computer data transfer.

The brief circuit description is listed as follows:

- U4 and its associated circuit act as WiFi module
- IC1 and its associated circuit act as MCU
- U2 and its associated circuit act as power regulator
- X1, X2 and its associated circuit act as oscillator
- U5, U6 and its associated circuit act as eeprom

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1.2 Location of the test site

FCC Registered Test Site Number: 552221

Industry Canada Registered Test Site Number: 4093A

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	02 Feb 2016	1 Year
Broadband Antenna	Schaffner	CBL6112B	2692	19 Feb 2016	2 Years
Loop Antenna	EMCO	6502	00056620	28 Oct 2016	1 Year
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-531	24 Nov 2016	2 Years
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170442	18 Jun 2017	2 Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9718	9718-119	24 Nov 2016	2 Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9719	9719-010	17 Jun 2017	2 Years
Coaxial Cable	Suhner	Sucoflex_104	N/A	24 Nov 2016	1 Year



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1.4 Measurement Uncertainty

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%.

Radiated emissions

Frequency	Uncertainty (U_{lab})
30MHz ~ 200MHz (Horizontal)	4.63dB
30MHz ~ 200MHz (Vertical)	4.65dB
200MHz ~1000MHz (Horizontal)	4.45dB
200MHz ~1000MHz (Vertical)	4.41dB

Conducted emissions

Frequency	Uncertainty (U_{lab})
150kHz~30MHz	2.47dB



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2 Description of the radiated emission test

2.1 Test Procedure

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 – 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

Peak Detector data were measured unless otherwise stated.

“#” means emissions appear within the restricted bands shall follow the requirement of section 15.205 and RSS-Gen 8.10.

The frequencies from fundamental up to that tenth harmonics were investigated, and emissions more 20dB below limit were not reported. Thus, those highest emissions were presented in next page (section 2.3).

It was found that the EUT meet the FCC and RSS requirement.

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2.3 Radiated Emission Measurement Data

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart C and RSS

Environmental conditions:

Parameter	Recorded value
Ambient temperature:	25 °C
Relative humidity:	61 %

Measurement: Peak RBW: 1MHz VBW: 3MHz
Testing frequency range: 9kHz to 25GHz Mode: 802.11b

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)
2411.109	H	91.5	- 4.1	87.4	114.0	- 26.6
3215.939	H	47.4	- 1.4	46.0	74.0	- 28.0
#4823.924	H	39.6	3.8	43.4	74.0	- 30.6
6431.946	V	48.1	5.7	53.8	74.0	- 20.2

2436.103	H	91.4	- 4.1	87.3	114.0	- 26.7
3249.176	H	47.6	- 1.4	46.2	74.0	- 27.8
#4873.960	V	44.9	3.8	48.7	74.0	- 25.3
6498.544	V	46.6	5.7	52.3	74.0	- 21.7

2461.107	V	91.6	- 4.3	87.5	114.0	- 26.5
3282.645	H	48.4	- 1.4	47.0	74.0	- 27.0
#4923.994	V	41.8	4.1	45.9	74.0	- 28.1
6565.178	V	43.0	8.1	51.1	74.0	- 22.9

Remark: Peak measurement values are lower than 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 and RSS

Environmental conditions:

Parameter	Recorded value
Ambient temperature:	25 °C
Relative humidity:	61 %

Measurement: Peak RBW: 1MHz VBW: 3MHz
Testing frequency range: 9kHz to 25GHz Mode: 802.11g

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)
2411.942	H	93.7	- 4.1	89.6	114.0	- 24.4
3215.869	H	47.7	- 1.4	46.3	74.0	- 27.7
#4824.819	H	39.4	3.8	43.2	74.0	- 30.8
6431.945	V	48.2	5.7	53.9	74.0	- 20.1

2437.000	H	95.2	- 4.1	91.1	114.0	- 22.9
3249.267	H	47.8	- 1.4	46.4	74.0	- 27.6
#4877.177	H	43.8	3.8	47.6	74.0	- 26.4
6498.617	V	46.4	5.7	52.1	74.0	- 21.9

2461.935	V	93.6	- 4.3	89.5	114.0	- 24.5
3282.628	H	47.5	- 1.4	46.1	74.0	- 27.9
#4918.346	H	48.7	4.1	42.8	74.0	- 21.2
6565.252	V	43.1	8.1	51.2	74.0	- 22.8

Remark: Peak measurement values are lower than 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 and RSS

Environmental conditions:

Parameter	Recorded value
Ambient temperature:	25 °C
Relative humidity:	61 %

Measurement: Peak RBW: 1MHz VBW: 3MHz
Testing frequency range: 9kHz to 25GHz Mode: 802.11n

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)
2413.042	H	92.8	- 4.1	88.7	114.0	- 25.3
3215.976	H	47.6	- 1.4	46.2	74.0	- 27.8
#4822.981	H	39.1	3.8	42.9	74.0	- 31.1
6431.960	V	48.1	5.7	53.8	74.0	- 20.2

2438.013	H	93.8	- 4.1	89.7	114.0	- 24.3
3249.259	H	48.1	- 1.4	46.7	74.0	- 27.3
#4872.205	H	43.3	3.8	47.1	74.0	- 26.9
6498.638	H	45.3	5.7	51.0	74.0	- 23.0

2463.013	V	92.5	- 4.3	88.4	114.0	- 25.6
3282.677	H	48.3	- 1.4	46.9	74.0	- 27.1
6565.355	V	43.9	8.1	52.0	74.0	- 22.0

Remark: Peak measurement values are lower than average limit, therefore average measurement is not necessary
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:	25 °C
Relative humidity:	61 %

Measurement: Peak RBW: 1MHz VBW: 3MHz

Mode: 802.11b

Frequency (MHz)	Reading (dBm)	Reading (mW)	Limit (mW)	Margin (mW)
2412.899	- 0.88	0.817	1000.0	- 999.183
2437.899	1.44	1.393	1000.0	- 998.607
2461.101	2.21	1.663	1000.0	- 998.337

Mode: 802.11g

2413.449	- 0.77	0.838	1000.0	- 999.162
2438.349	3.72	2.355	1000.0	- 997.645
2463.199	1.77	1.503	1000.0	- 998.497

Mode: 802.11n

2413.748	- 1.58	0.695	1000.0	- 999.305
2439.198	3.55	2.265	1000.0	- 997.735
2463.698	0.99	1.256	1000.0	- 998.744

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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

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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4 Photograph

4.1 Photographs of the Test Setup for Radiated Emission and Conducted Emission

For electronic filing, the photos are saved with filename PEQ650171115 TSup.pdf.

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename PEQ650171115 ExPho.pdf and PEQ650171115 InPho.pdf.

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5 Supplementary document

The following document were submitted by applicant, and for electronic filing, the document are saved with the following filenames:

Document	Filename
ID Label/Location	LabelSmp.jpg
Block Diagram	BlkDia.pdf
Schematic Diagram	Schem.pdf
Users Manual	UserMan.pdf
Operational Description	OpDes.pdf

5.1 Bandwidth

The plot saved in TestRpt2.pdf shows the band edge is fulfil 15.205 restricted band, 15.247(d) and RSS-247 clause 5.5 requirement.

The plot saved in TestRpt3.pdf shows the 6dB bandwidth has minimum 500kHz for frequency channel 2412MHz, 2437MHz and 2462MHz. It fulfils the section 15.247(a)(2) and RSS-247 clause 5.2 (1) requirement.

5.2 Power Spectral Density

The plot saved in TestRpt4.pdf shows the frequency channel 2412MHz, 2437MHz and 2462MHz were not excess 8dBm for 3kHz bandwidth. It fulfils the section 15.247(e) and RSS-247 clause 5.2 (2) requirement.

5.3 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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A3	Photos of Internal Configurations	2	pages
A4	EUT Antenna	1	page
A5	ID Label/Location	1	page
A6	Band Edge	6	pages
A7	6dB Bandwidth Plot	6	pages
A8	99% Bandwidth Plot	6	pages
A9	Power Spectral Density	6	pages
A10	Transmission Power	6	pages



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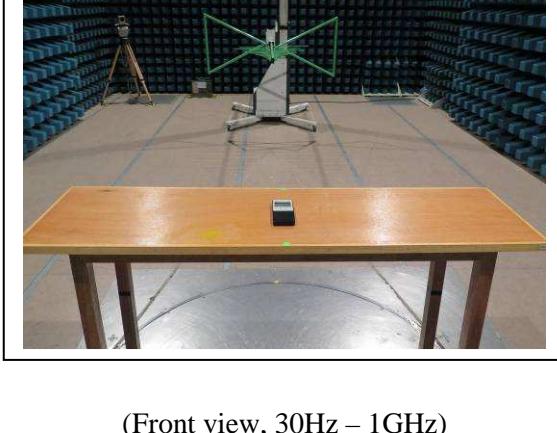
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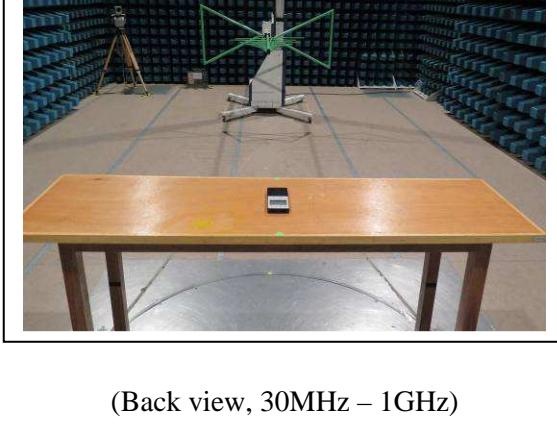
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A1. Photos of the set-up of Radiated Emissions



(Front view, 30Hz – 1GHz)



(Back view, 30MHz – 1GHz)

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Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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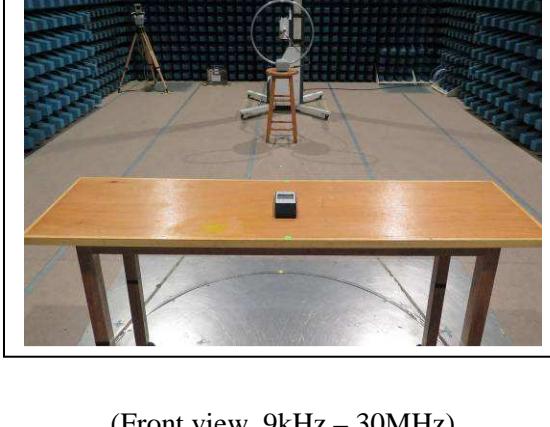
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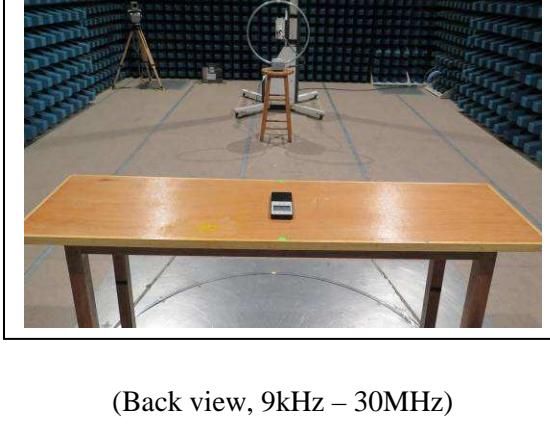
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A1. Photos of the set-up of Radiated Emissions



(Front view, 9kHz – 30MHz)



(Back view, 9kHz – 30MHz)

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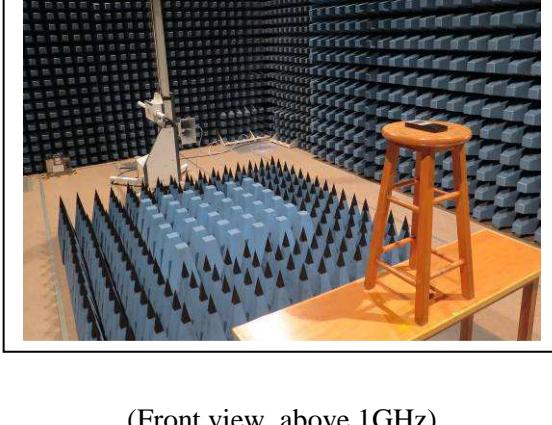
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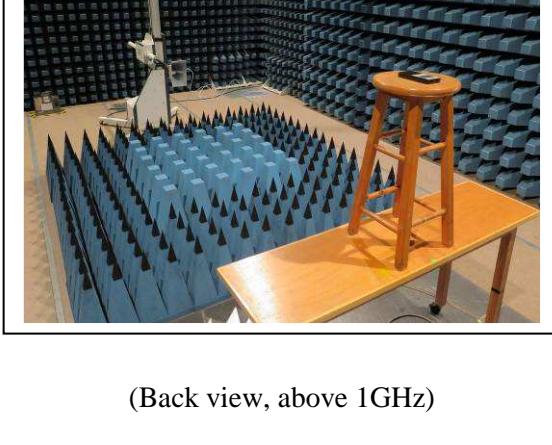
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A1. Photos of the set-up of Radiated Emissions



(Front view, above 1GHz)



(Back view, above 1GHz)

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Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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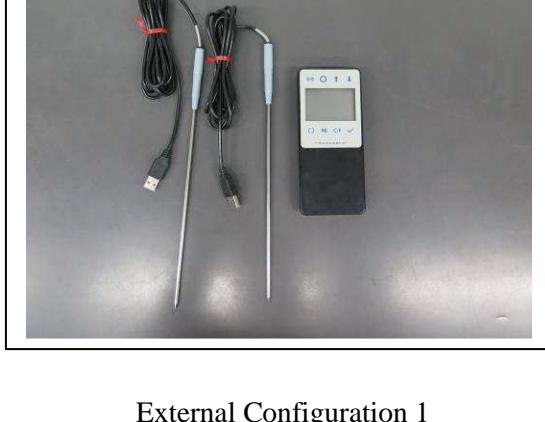
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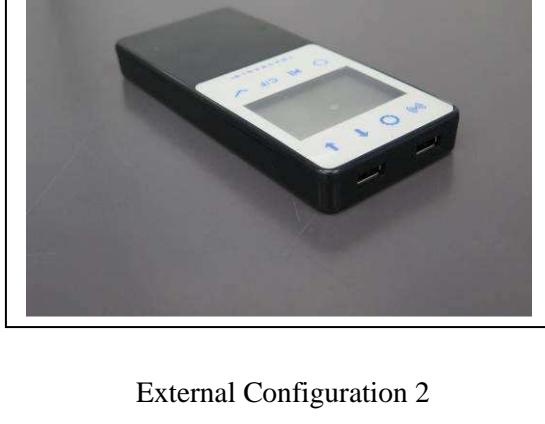
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A2 Photos of External Configurations



External Configuration 1



External Configuration 2

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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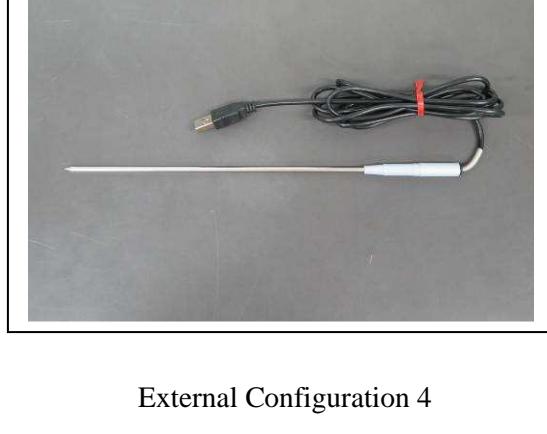
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A2 Photos of External Configurations



External Configuration 3



External Configuration 4

Tested by:

A handwritten signature in black ink.

Mr. LEUNG Shu-kan, Ken

Reviewed by:

A handwritten signature in black ink.

Mr. WONG Lap-pong, Andrew

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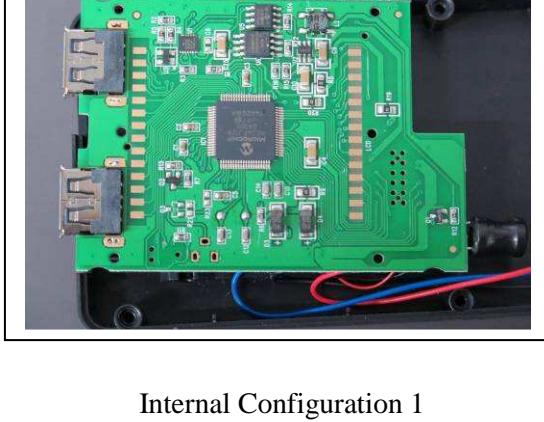
廠商會檢定中心

TEST REPORT

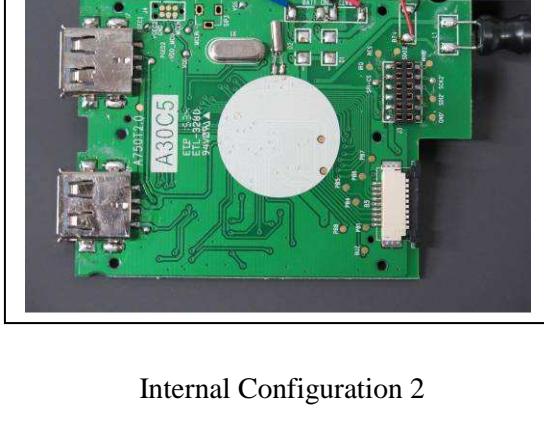
Report No. : AT0079620(2)

Date : 10 Dec 2015

A3 Photos of Internal Configurations



Internal Configuration 1



Internal Configuration 2

Tested by:

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Reviewed by:

Mr. WONG Lap-pong, Andrew

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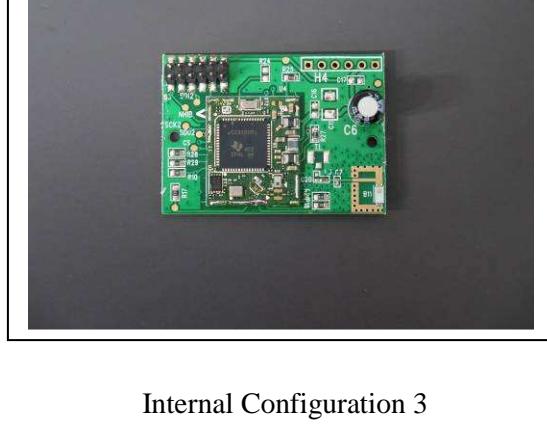
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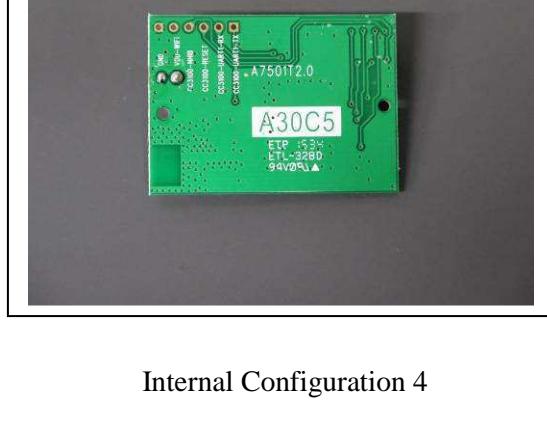
Report No. : AT0079620(2)

Date : 10 Dec 2015

A3 Photos of Internal Configurations



Internal Configuration 3



Internal Configuration 4

Tested by:

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Reviewed by:

Mr. WONG Lap-pong, Andrew

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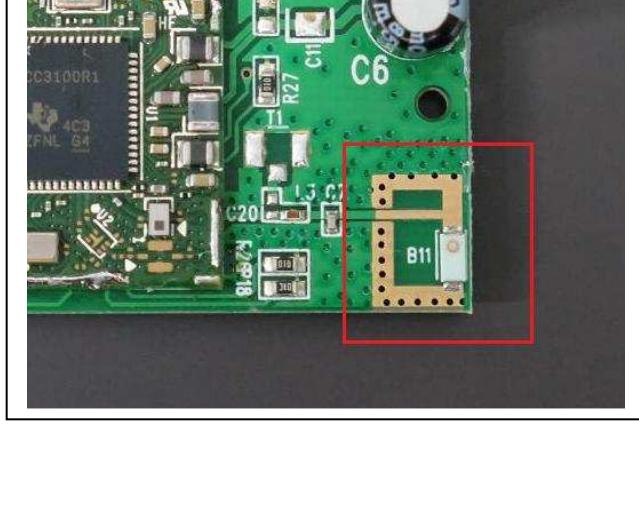
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Date : 10 Dec 2015

A4. EUT Antenna



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Reviewed by:

Mr. WONG Lap-pong, Andrew

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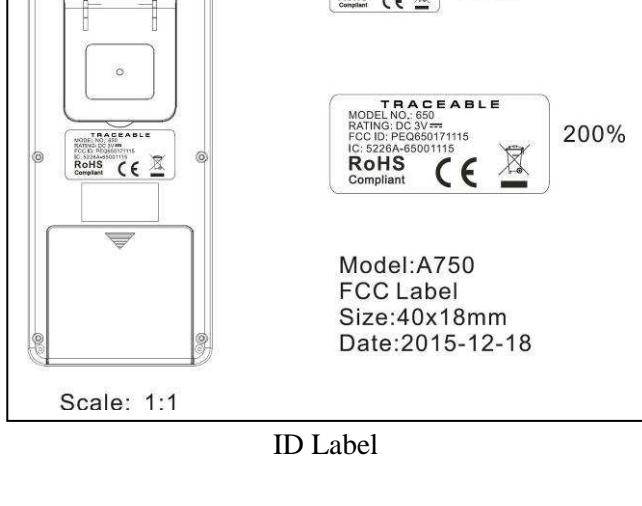
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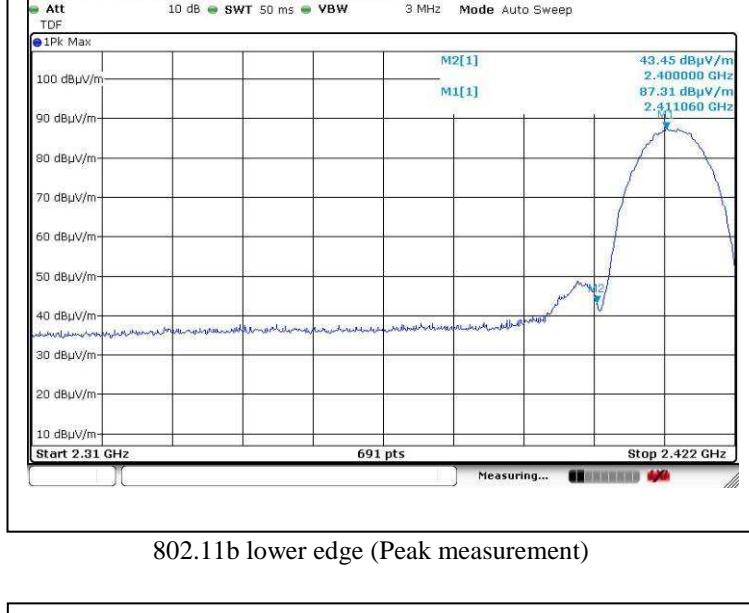
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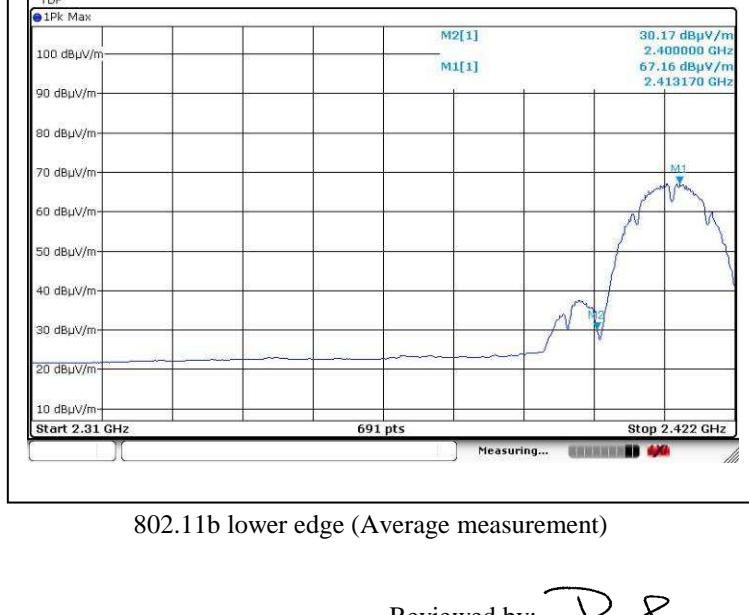
Report No. : AT0079620(2)

Date : 10 Dec 2015

A6. Band Edge



802.11b lower edge (Peak measurement)



802.11b lower edge (Average measurement)

Tested by:

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Reviewed by:

Mr. WONG Lap-pong, Andrew

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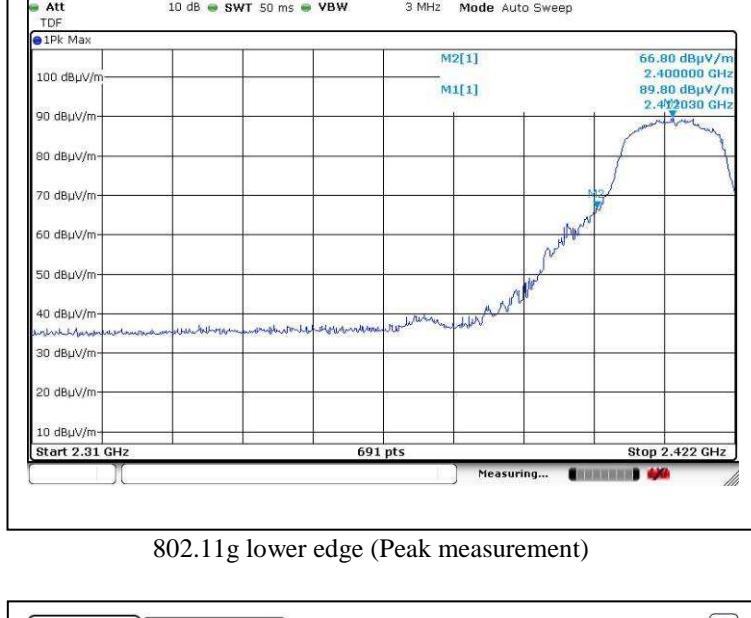
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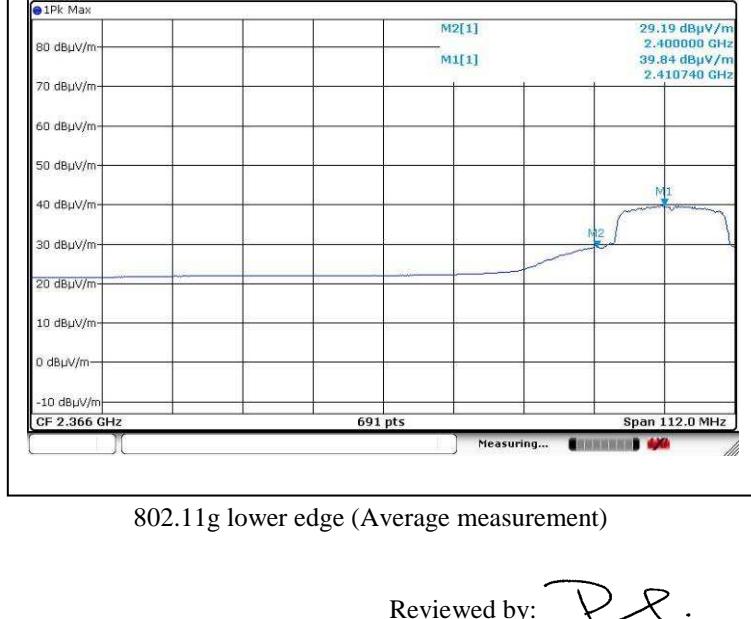
Report No. : AT0079620(2)

Date : 10 Dec 2015

A6. Band Edge



802.11g lower edge (Peak measurement)



802.11g lower edge (Average measurement)

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Reviewed by:

Mr. WONG Lap-pong, Andrew

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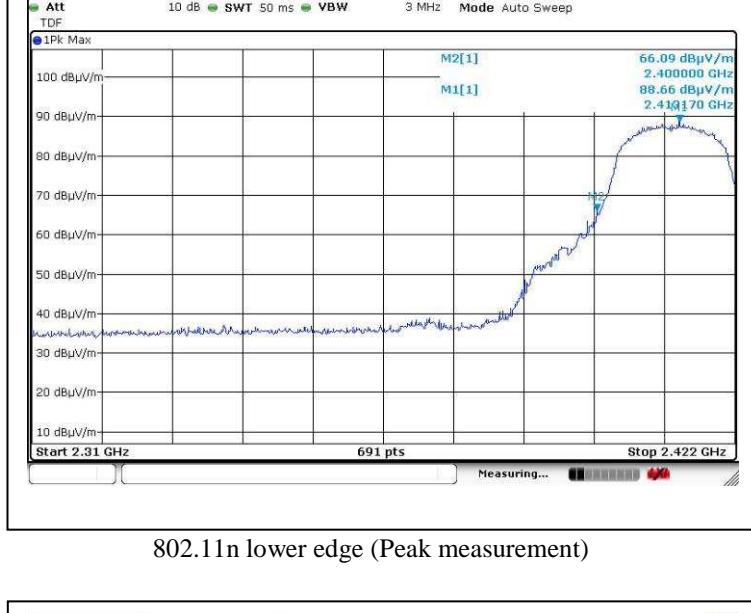
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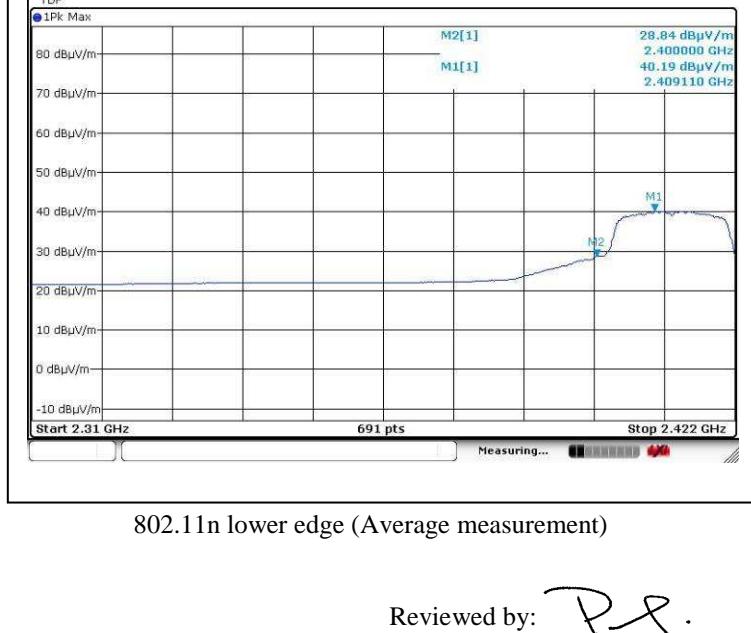
Report No. : AT0079620(2)

Date : 10 Dec 2015

A6. Band Edge



802.11n lower edge (Peak measurement)



802.11n lower edge (Average measurement)

Tested by:

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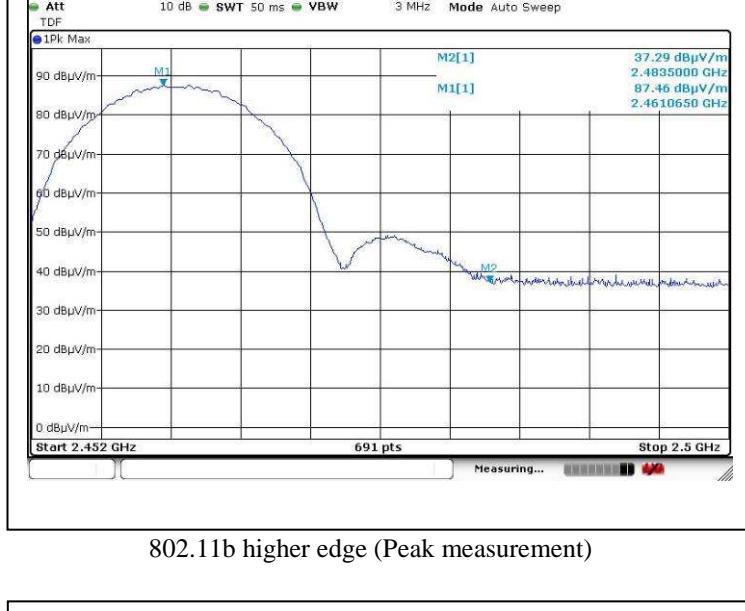
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Report No. : AT0079620(2)

Date : 10 Dec 2015

A6. Band Edge



802.11b higher edge (Peak measurement)



802.11b higher edge (Average measurement)

Tested by:

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Reviewed by:

Mr. WONG Lap-pong, Andrew

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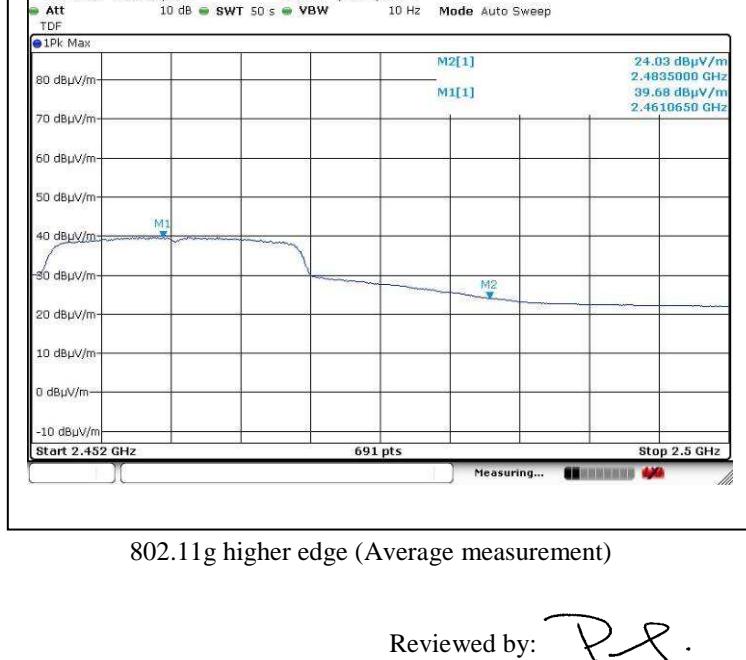
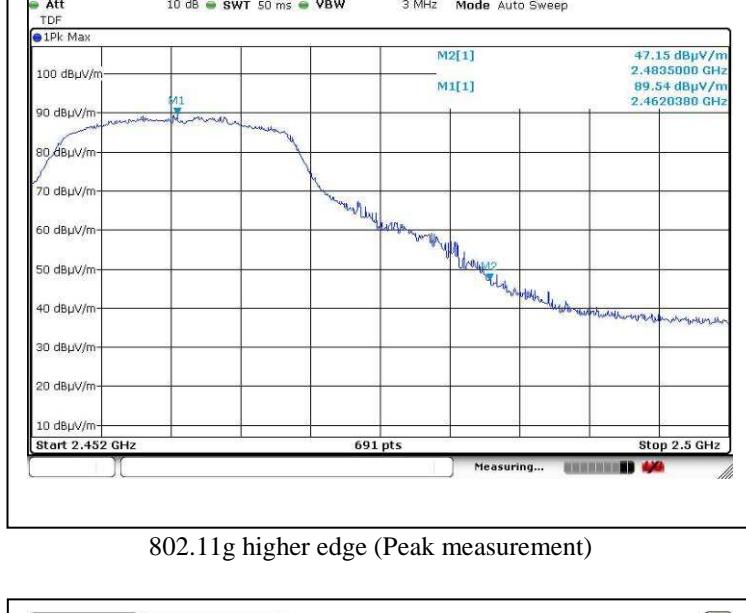
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A6. Band Edge



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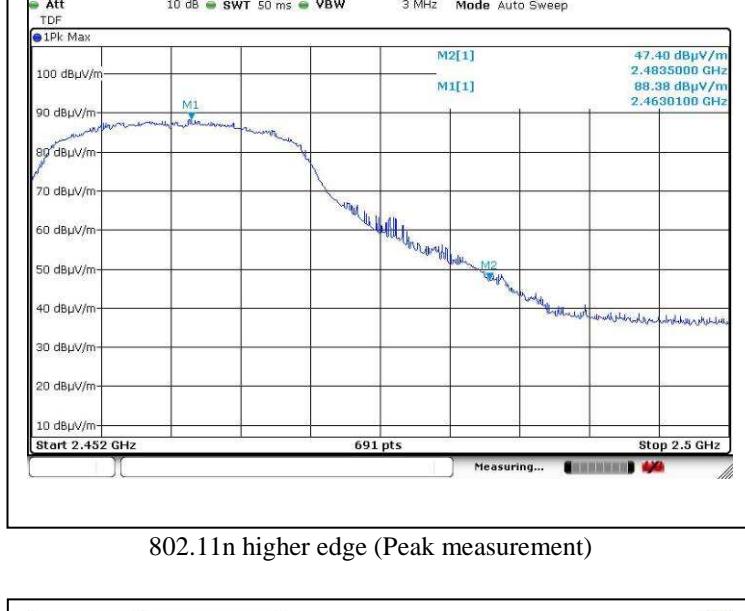
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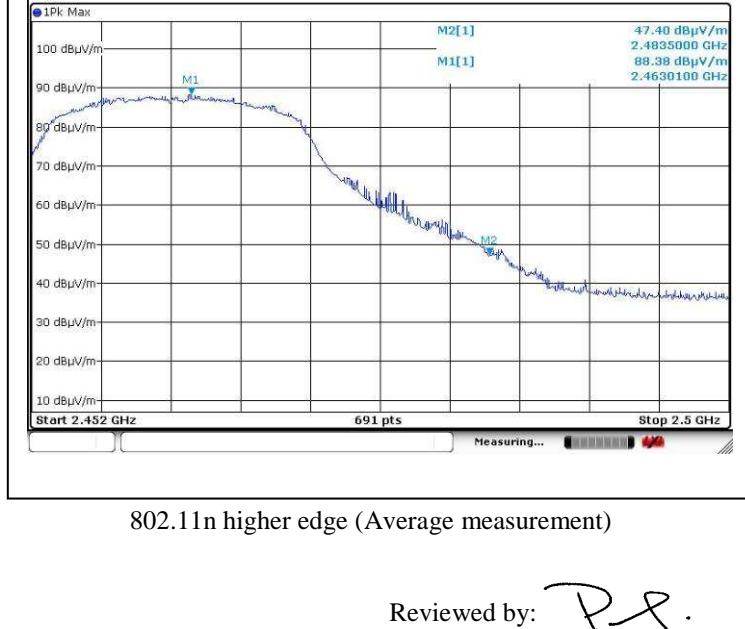
Report No. : AT0079620(2)

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A6. Band Edge



802.11n higher edge (Peak measurement)



802.11n higher edge (Average measurement)

Tested by:

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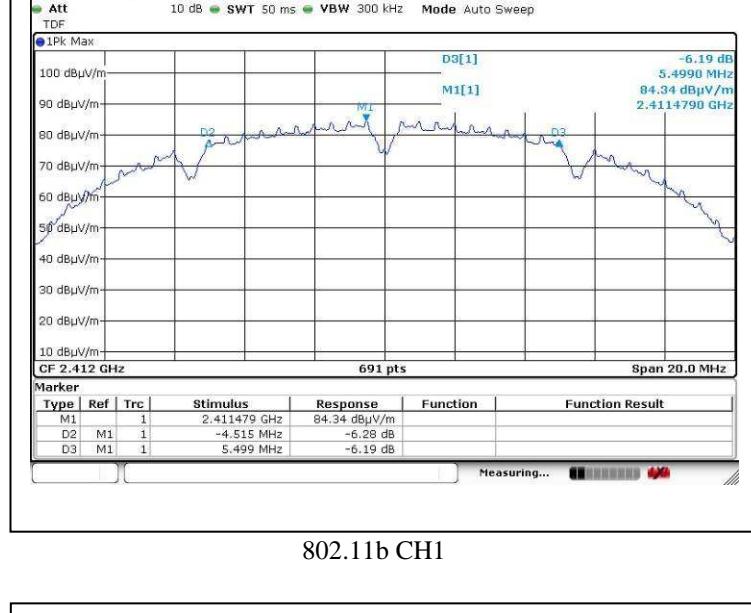
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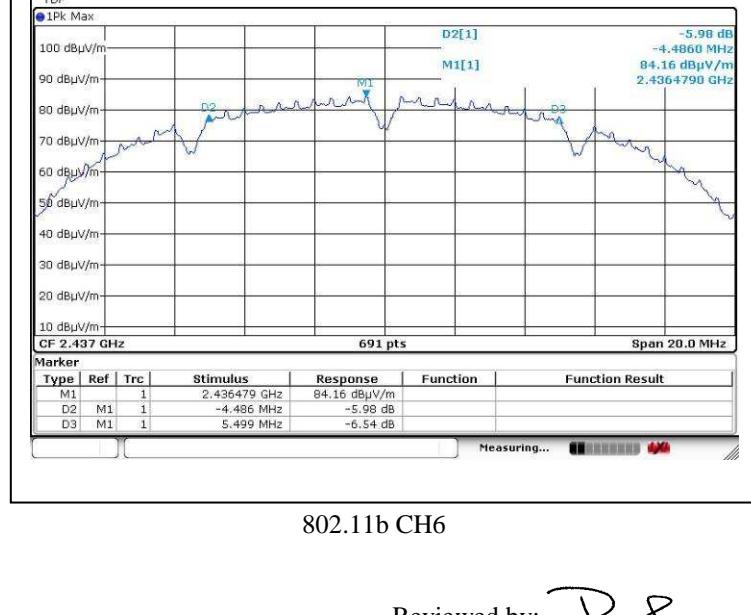
Report No. : AT0079620(2)

Date : 10 Dec 2015

A7. 6dB Bandwidth Plot



802.11b CH1



802.11b CH6

Tested by:

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Reviewed by:

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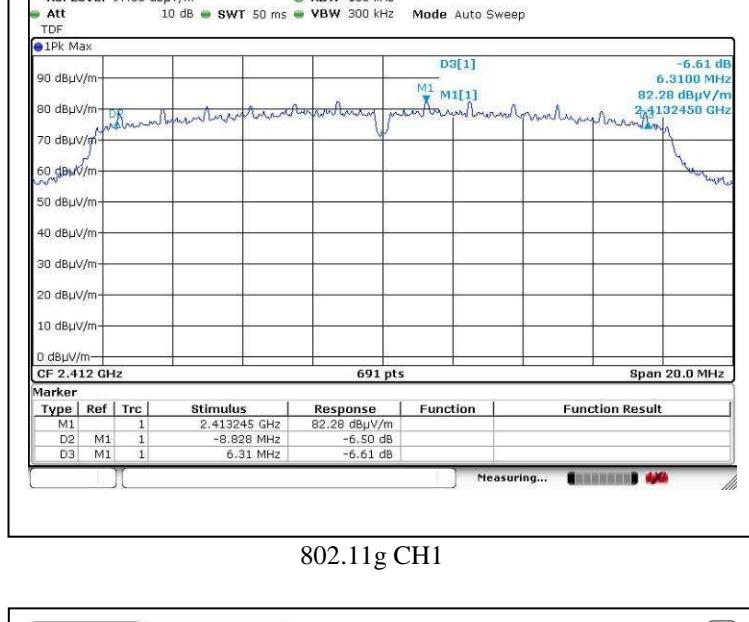
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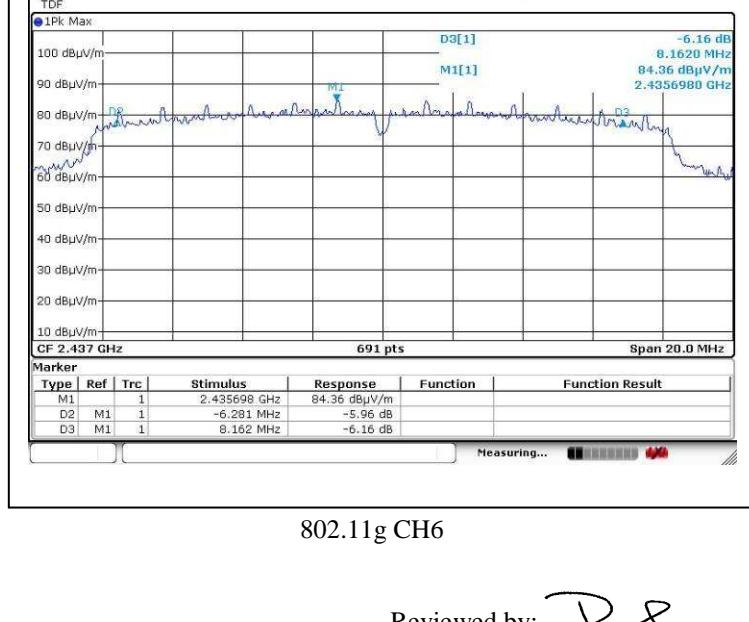
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A7. 6dB Bandwidth Plot



802.11g CH1



802.11g CH6

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Mr. WONG Lap-pong, Andrew

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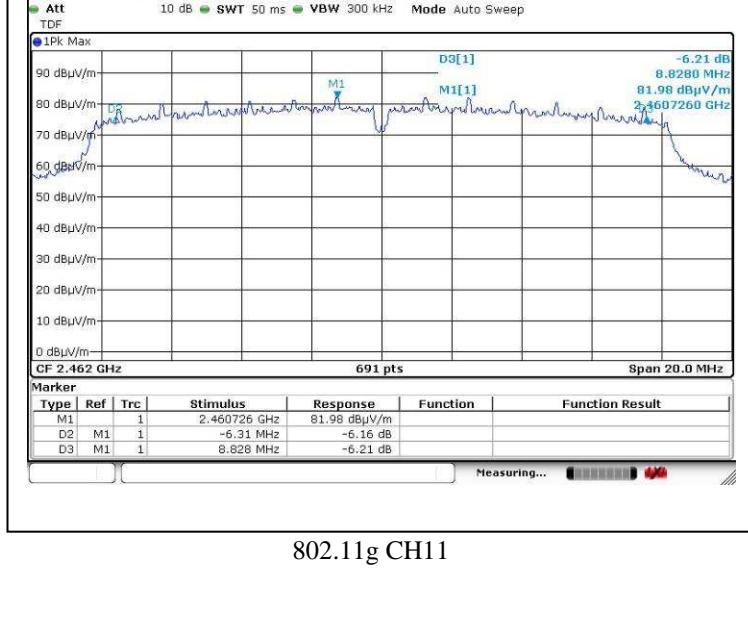
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Report No. : AT0079620(2)

Date : 10 Dec 2015

A7. 6dB Bandwidth Plot



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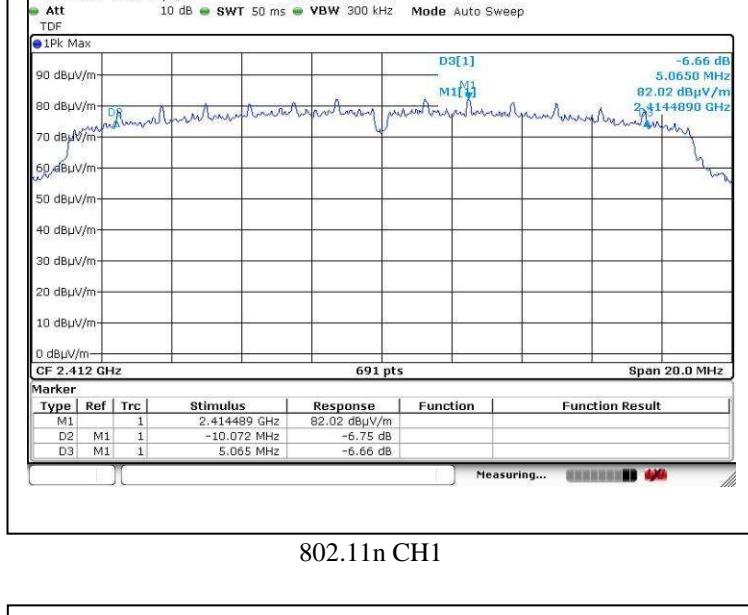
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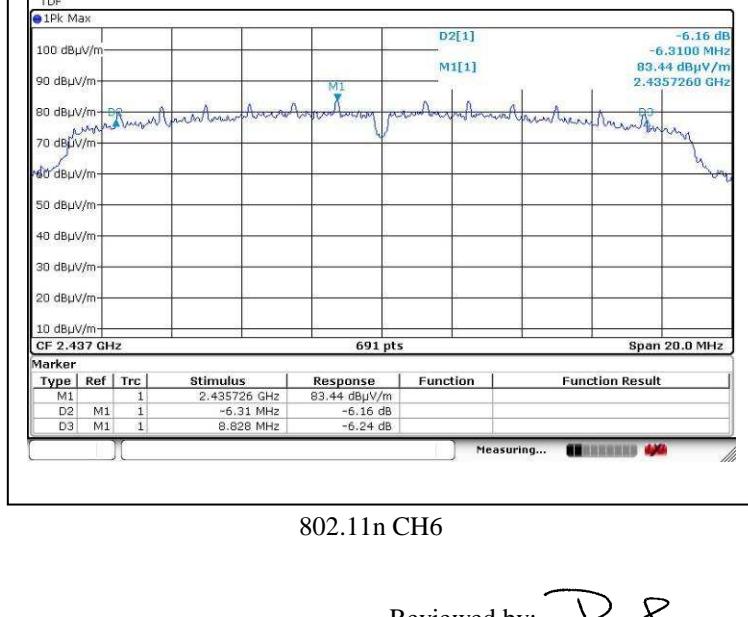
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A7. 6dB Bandwidth Plot



802.11n CH1



802.11n CH6

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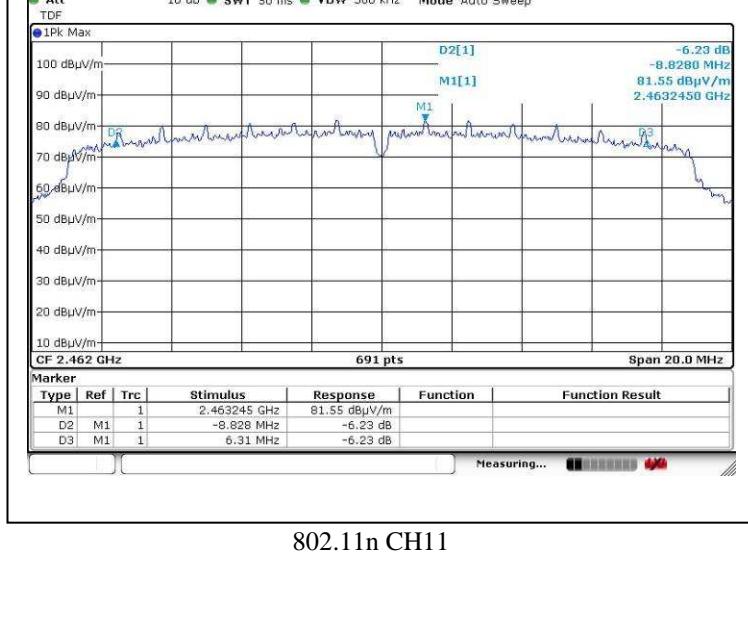
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TEST REPORT

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A7. 6dB Bandwidth Plot



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TEST REPORT

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Date : 10 Dec 2015

A8. 99% Bandwidth Plot



802.11b CH11

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Mr. WONG Lap-pong, Andrew

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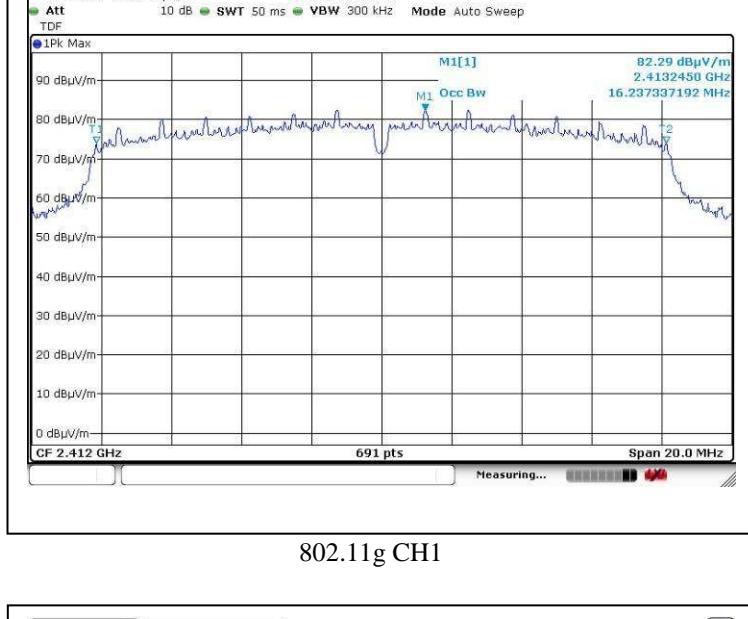
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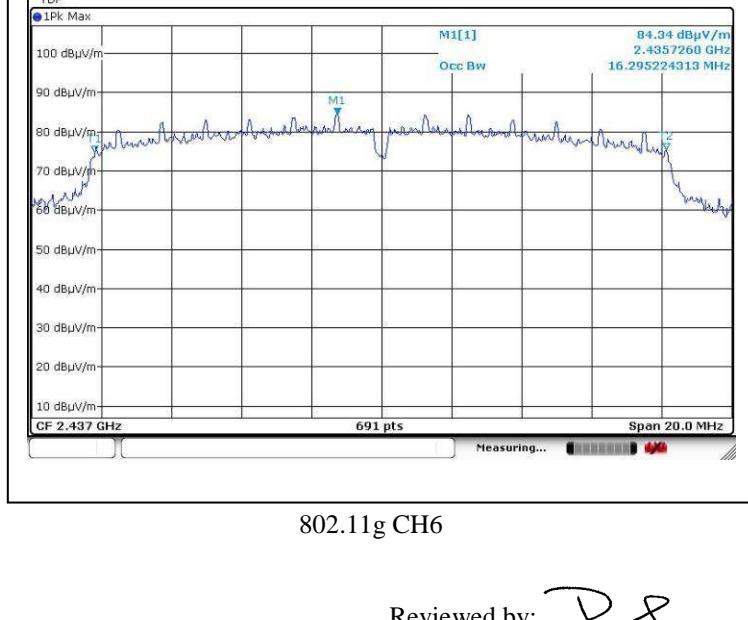
Report No. : AT0079620(2)

Date : 10 Dec 2015

A8. 99% Bandwidth Plot



802.11g CH1



802.11g CH6

Tested by:

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Reviewed by:

Mr. WONG Lap-pong, Andrew

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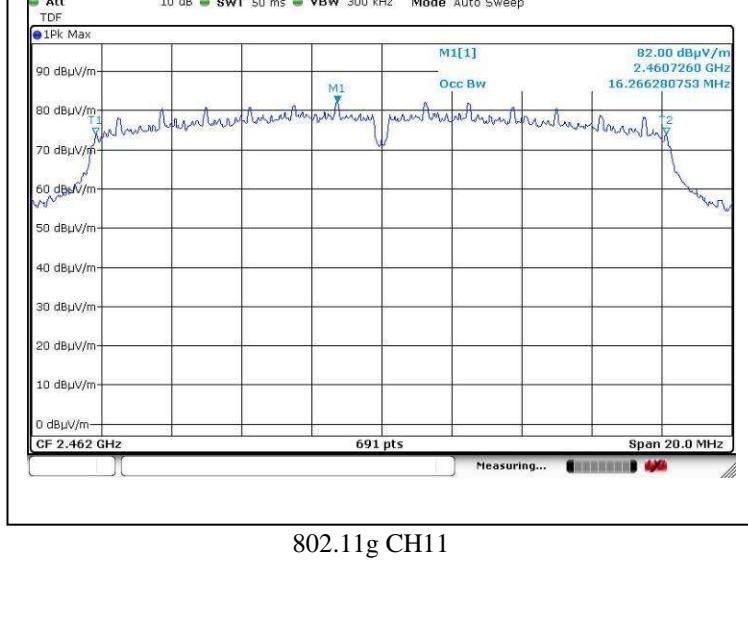
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TEST REPORT

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A8. 99% Bandwidth Plot



802.11g CH11

Tested by:

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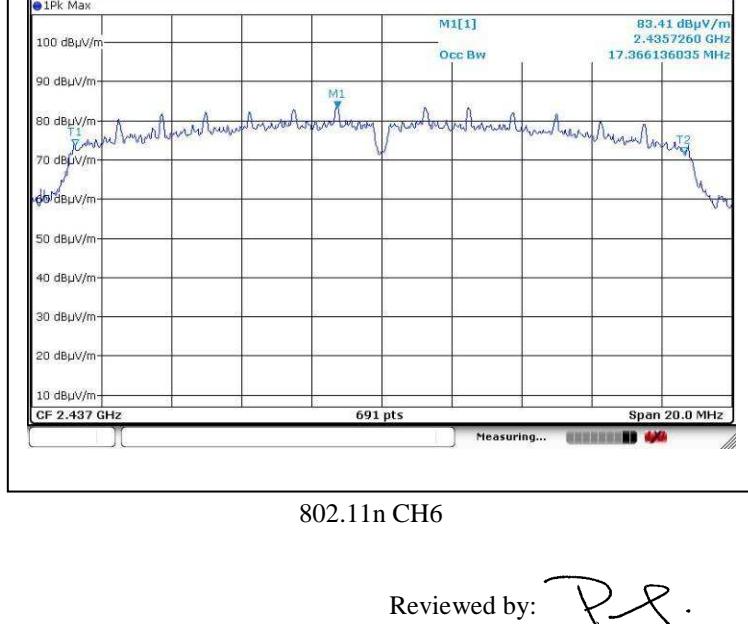
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A8. 99% Bandwidth Plot



802.11n CH1



802.11n CH6

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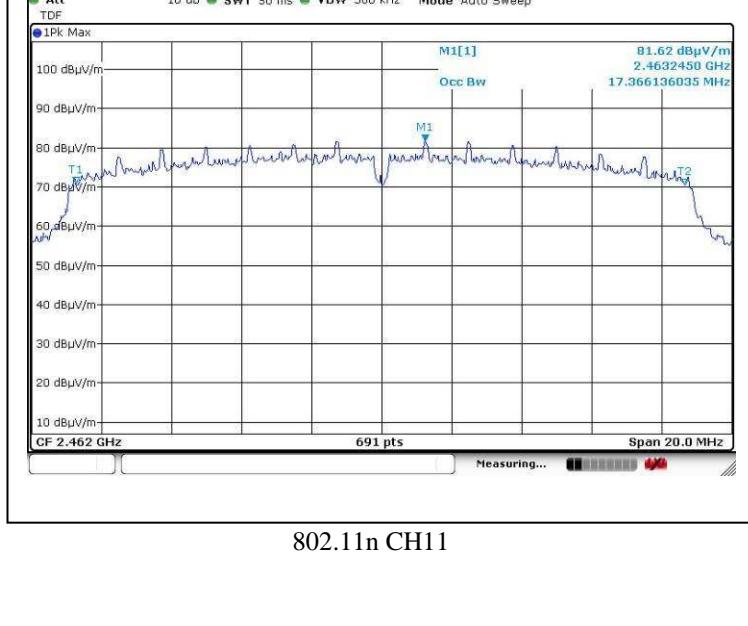
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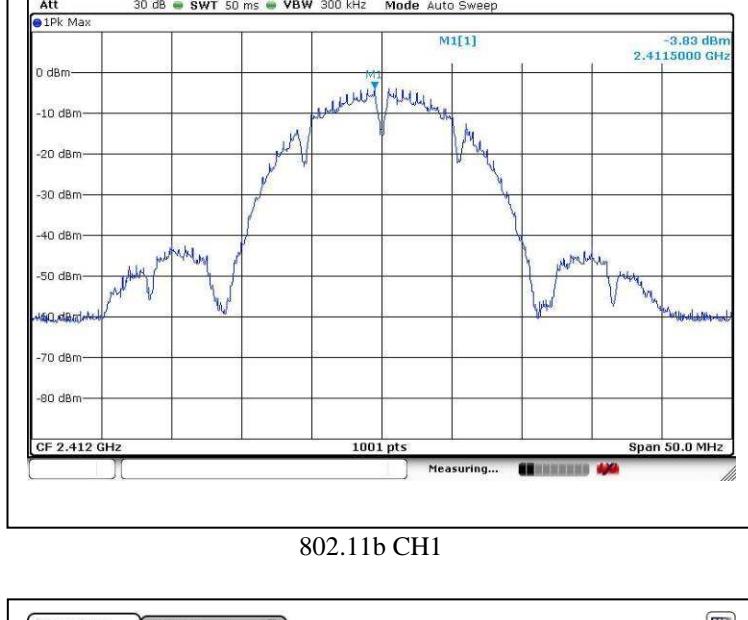
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TEST REPORT

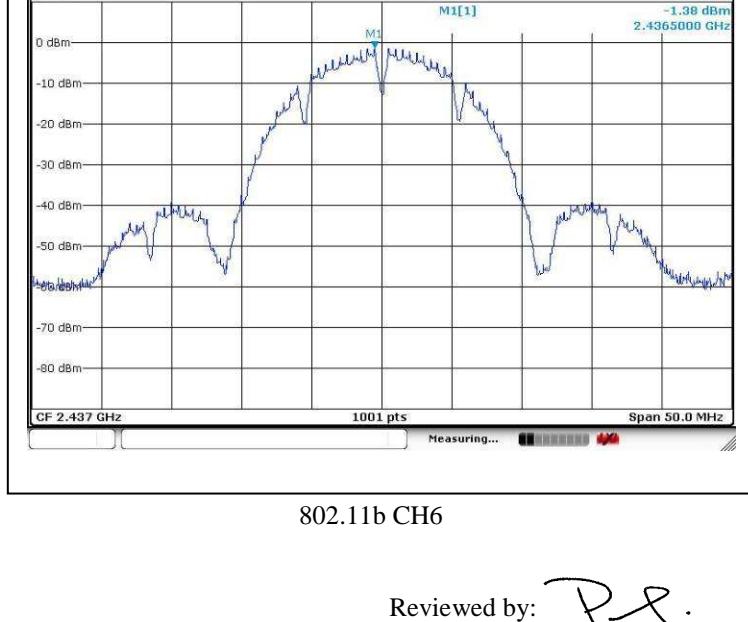
Report No. : AT0079620(2)

Date : 10 Dec 2015

A9. Power Spectral Density



802.11b CH1



802.11b CH6

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

FCC ID: PEQ650171115

IC: 5226A-65001115

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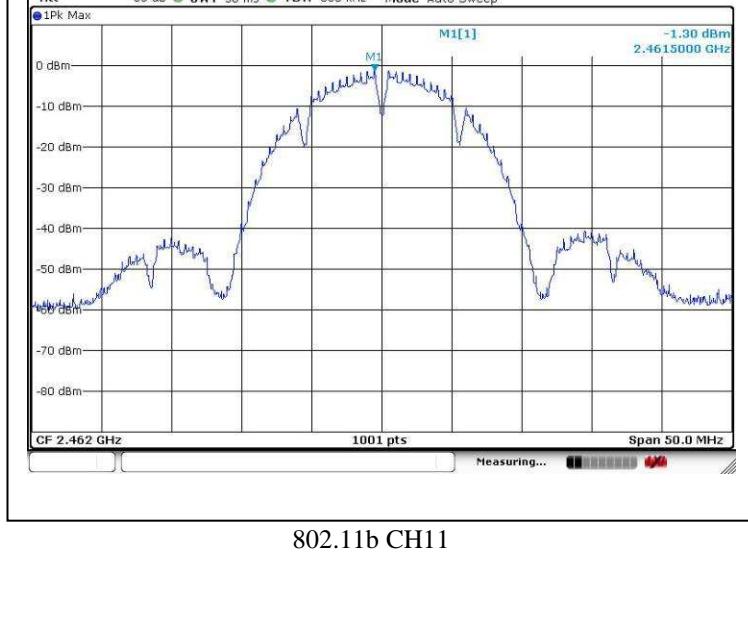
廠商會檢定中心

TEST REPORT

Report No. : AT0079620(2)

Date : 10 Dec 2015

A9. Power Spectral Density



802.11b CH11

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

FCC ID: PEQ650171115

IC: 5226A-65001115

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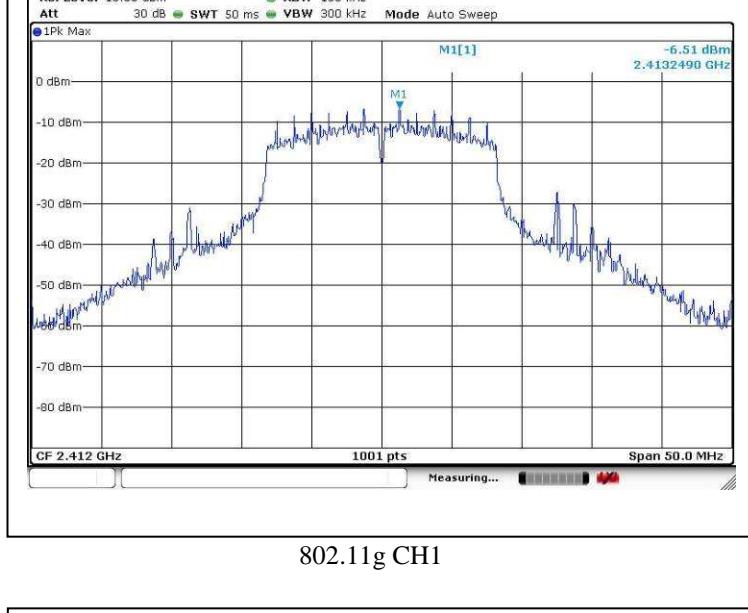
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TEST REPORT

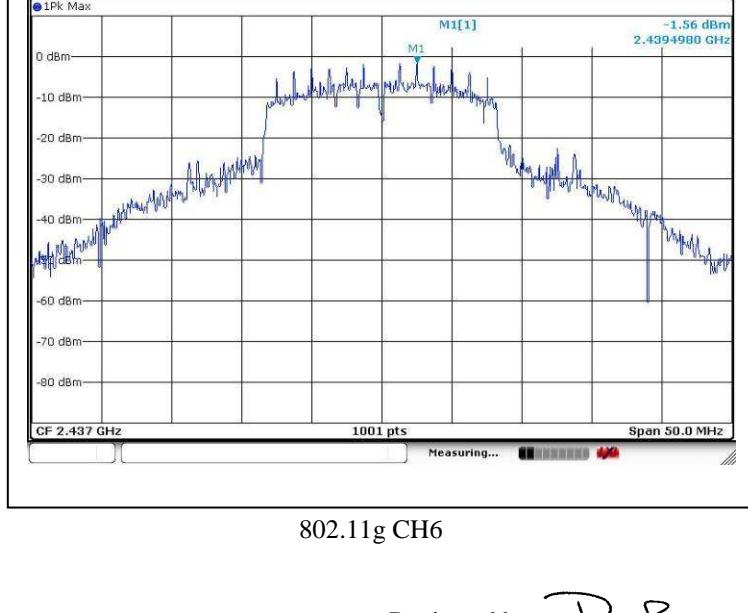
Report No. : AT0079620(2)

Date : 10 Dec 2015

A9. Power Spectral Density



802.11g CH1



802.11g CH6

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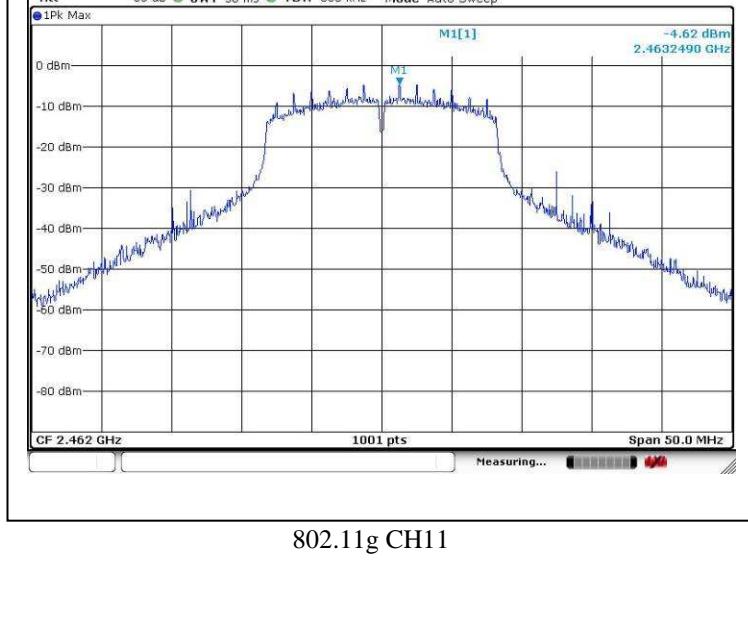
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TEST REPORT

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A9. Power Spectral Density



802.11g CH11

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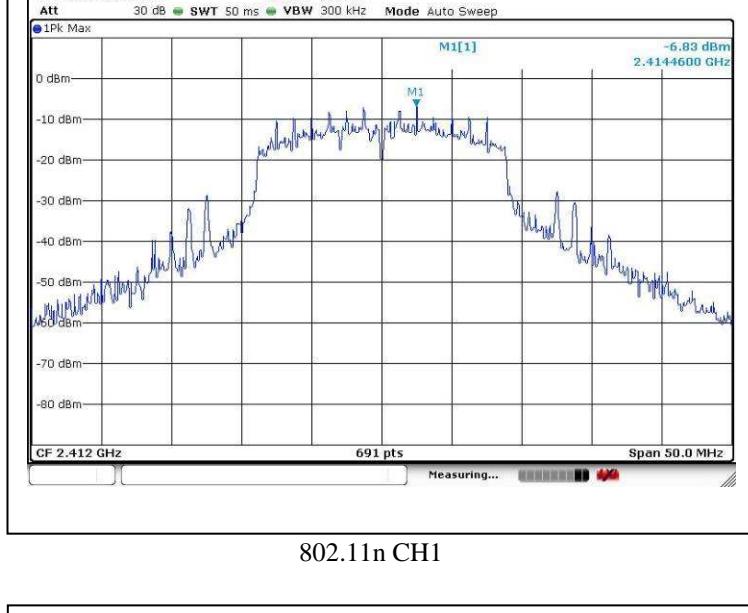
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TEST REPORT

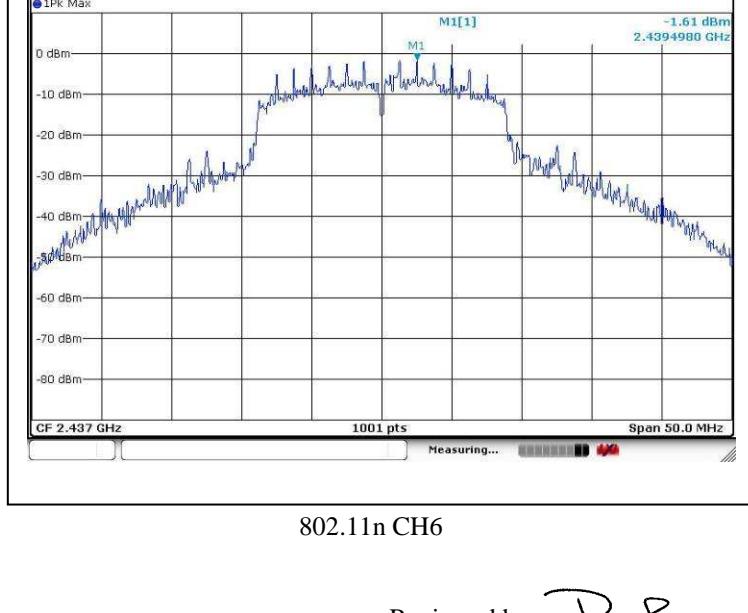
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A9. Power Spectral Density



802.11n CH1



802.11n CH6

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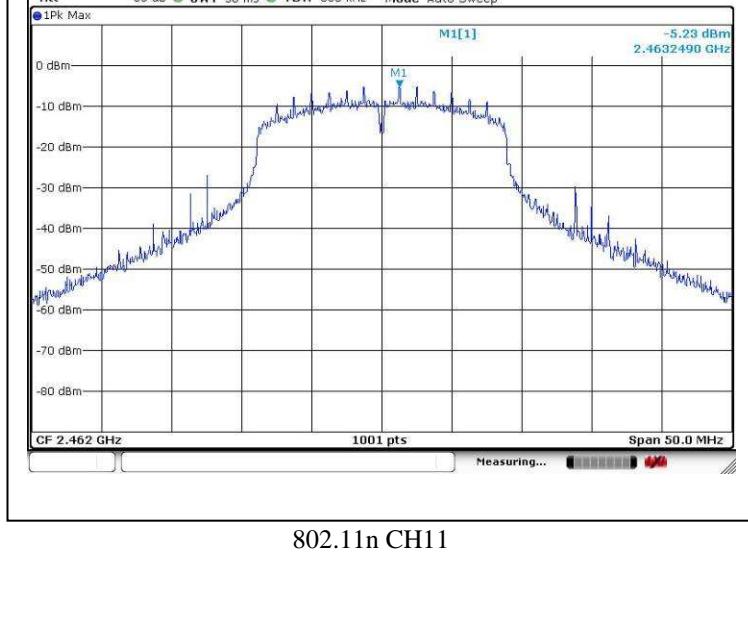
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TEST REPORT

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A9. Power Spectral Density



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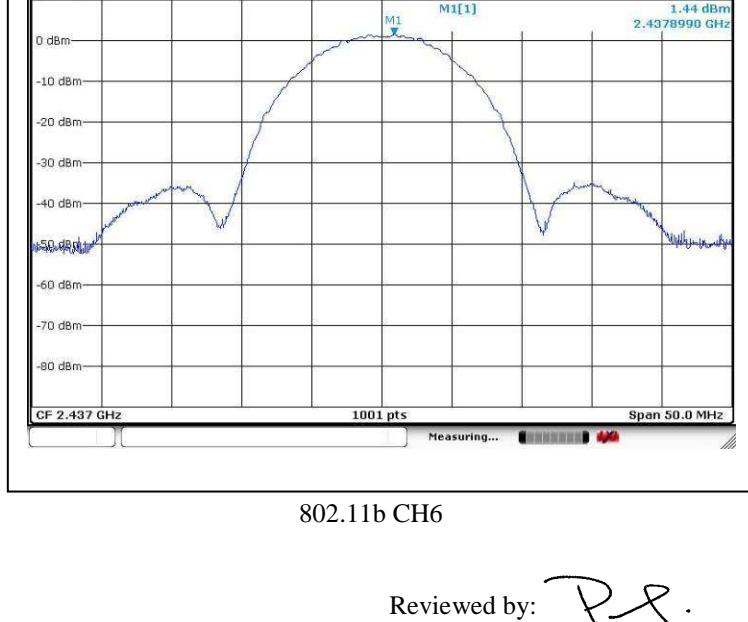
Report No. : AT0079620(2)

Date : 10 Dec 2015

A10. Transmission Power



802.11b CH1



802.11b CH6

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

FCC ID: PEQ650171115

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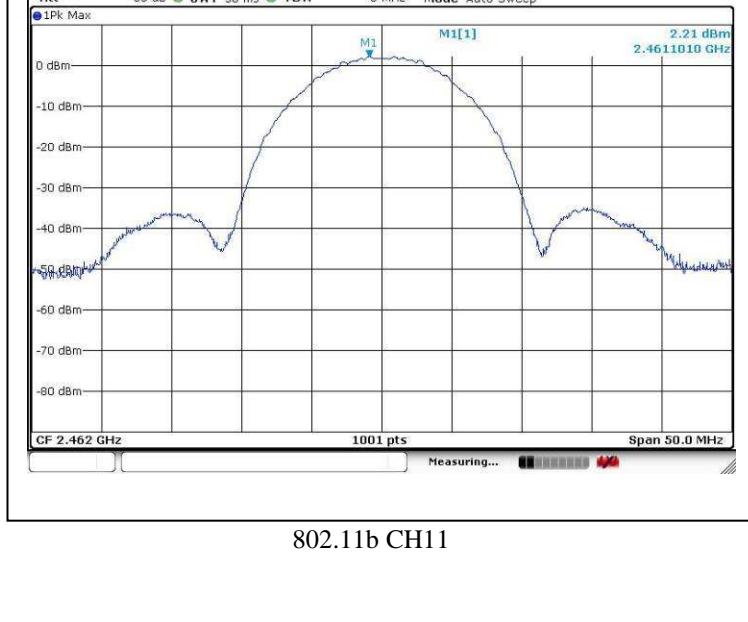
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TEST REPORT

Report No. : AT0079620(2)

Date : 10 Dec 2015

A10. Transmission Power



802.11b CH11

Tested by:

Mr. LEUNG Shu-kan, Ken

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Mr. WONG Lap-pong, Andrew

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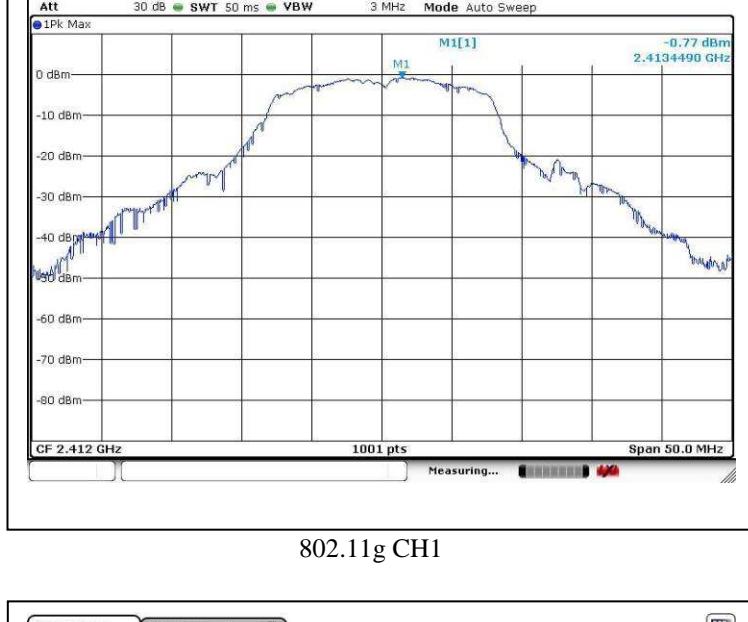
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TEST REPORT

Report No. : AT0079620(2)

Date : 10 Dec 2015

A10. Transmission Power



802.11g CH1



802.11g CH6

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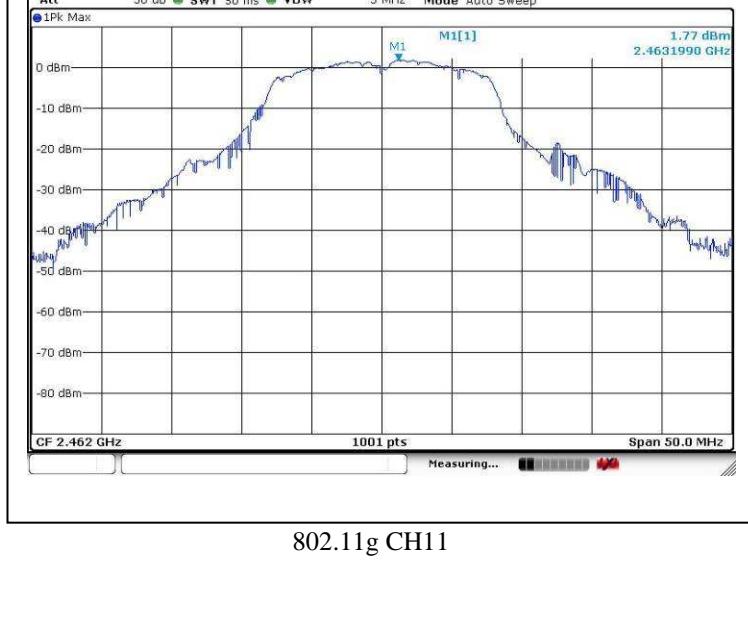
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A10. Transmission Power



802.11g CH11

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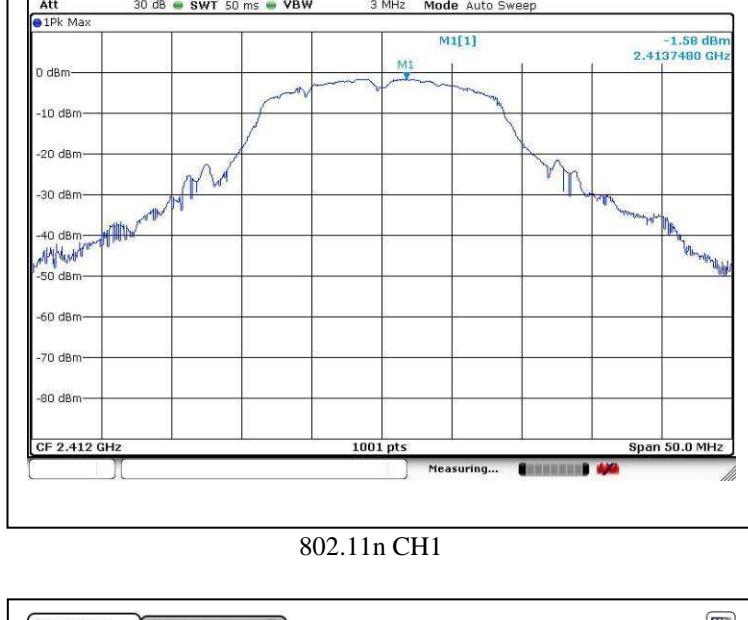
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A10. Transmission Power



802.11n CH1



802.11n CH6

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A10. Transmission Power



802.11n CH11

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

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