



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AU0062274(0) Date : 14 Nov 2016

Application No. : LU033816(0)

Applicant : Electronics Tomorrow Limited
Unit 903-7, 9/F., Tower 1, Harbour Center,
1 Hok Cheung Street, Hung Hom, Kowloon, Hong Kong

Sample Description : One(1) item of submitted sample stated to be Smart Thermometer 2
of Model No. WSST3000
Sample registration No. : RU049045-001
Radio Frequency : 2412MHz – 2462MHz Transceiver
Rating : AC 100-240V to DC 5V adaptor
: 3.7V rechargeable battery
No. of submitted sample : Three (3) set (s)

Date Received : 07 Oct 2016

Test Period : 11 Oct 2016 to 14 Oct 2016

Test Requested : FCC Part 15 Certification, Industry Canada Interference Causing Equipment
Standard RSS-247

Test Method : 47 CFR Part 15 (10-1-15 Edition), ANSI C63.4 – 2014, ANSI C63.10 – 2013
Industry Canada RSS-Gen Issue 5, KDB 558074 D01 DTS Meas Guidance v03r05

Test Engineer : Mr. LEUNG Shu-kan, Ken

Test Result : See attached sheet(s) from page 2 to 112.

Conclusion : The submitted sample was found to comply with requirement of FCC Subpart C
and Industry Canada RSS-247 Issue 1.

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature : _____


Mr. WONG Lap-pong, Andrew
Manager
Electrical Division

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IC: 5226A-WSST3000



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1 General Information

1.1 General Description

The equipment under test (EUT) is a wireless thermometer. The EUT is power by 3.7V rechargeable battery. It operates at 2412MHz – 2462MHz. The EUT is connected with smart phone by WiFi. When the user using the app, the EUT will send the information to the user.

The brief circuit description is listed as follows:

- U19 and its associated circuit act as WiFi module
- U3 and its associated circuit act as MCU
- U5, U6, U20 and its associated circuit act as power regulator
- X1, X2, Y1 and its associated circuit act as oscillator
- U4, U5 and its associated circuit act as motor control



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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	ESCS30	100001	04 Jan 2017	1Year
Spectrum Analyzer	R&S	FSV40	100964	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	1Year
Coaxial Cable	Suhner	RG 214/U	N/A	18 May 2017	1Year
Coaxial Cable	Suhner	Sucoflex_104	N/A	13 Dec 2016	1Year
LISN	R&S	ENV216	101323	21 Oct 2016	1Year
Coaxial Cable	Tyco Electronics	RG 58C/U	N/A	01 Nov 2016	1Year
TS8997 Testing System					
Spectrum Analyzer	R&S	FSV 40	101190	12 May 2017	1Year
Vector Generator	R&S	SMBV100A	262024	04 May 2017	1Year
Generator	R&S	SMB100A	103230	24 May 2017	1Year
OSP	R&S	OSP	OSP120 V02	06 Jun 2017	1Year



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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

Line-conducted emissions

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



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2 Description of the emission test

2.1 Test Procedure

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 – 2013.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground for below 1GHz measurement and 1.5m high above the ground for above 1GHz measurement. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is placed 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1 m above the ground.

For 30MHz to 1GHz, broadband antenna with its vertical and horizontal plane is placed 3m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT. And the reference point of antenna shall be 1 m above the ground.

For above 1GHz, horn antenna with its vertical and horizontal plane is placed 3m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT. Preamplifier and High Pass filter was used for measurements. The reference point of antenna shall be 1 m above the ground.

The device was rotated through three orthogonal to determine which attitude and configuration produce the highest emission during measurement for Radiated Emission measurement.

The EUT will connect to TS 8997 testing system for direct conducted measurement.



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2.2 Conducted Emission Measurement Data

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	27	° C
Relative humidity:	60	%

Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
RF output power	2412.000 (802.11b)	0.0	20.000000	PASS
Power Spectral Density	2412.000 (802.11b)	0.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2412.000 (802.11b)	0.0	20.000000	PASS
Band Edge low	2412.000 (802.11b)	0.0	20.000000	PASS
Tx Spurious Emission	2412.000 (802.11b)	0.0	20.000000	PASS
RF output power	2437.000 (802.11b)	0.0	20.000000	PASS
Power Spectral Density	2437.000 (802.11b)	0.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2437.000 (802.11b)	0.0	20.000000	PASS
Tx Spurious Emission	2437.000 (802.11b)	0.0	20.000000	PASS
RF output power	2462.000 (802.11b)	0.0	20.000000	PASS
Power Spectral Density	2462.000 (802.11b)	0.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2462.000 (802.11b)	0.0	20.000000	PASS
Band Edge high	2462.000 (802.11b)	0.0	20.000000	PASS
Tx Spurious Emission	2462.000 (802.11b)	0.0	20.000000	PASS
RF output power	2412.000 (802.11g)	0.0	20.000000	PASS
Power Spectral Density	2412.000 (802.11g)	0.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2412.000 (802.11g)	0.0	20.000000	PASS
Band Edge low	2412.000 (802.11g)	0.0	20.000000	PASS
Tx Spurious Emission	2412.000 (802.11g)	0.0	20.000000	PASS
RF output power	2437.000 (802.11g)	0.0	20.000000	PASS
Power Spectral Density	2437.000 (802.11g)	0.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2437.000 (802.11g)	0.0	20.000000	PASS
Tx Spurious Emission	2437.000 (802.11g)	0.0	20.000000	PASS
RF output power	2462.000 (802.11g)	0.0	20.000000	PASS
Power Spectral Density	2462.000 (802.11g)	0.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2462.000 (802.11g)	0.0	20.000000	PASS
Band Edge high	2462.000 (802.11g)	0.0	20.000000	PASS
Tx Spurious Emission	2462.000 (802.11g)	0.0	20.000000	PASS
RF output power	2412.000 (802.11n)	0.0	20.000000	PASS
Power Spectral Density	2412.000 (802.11n)	0.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2412.000 (802.11n)	0.0	20.000000	PASS
Band Edge low	2412.000 (802.11n)	0.0	20.000000	PASS
Tx Spurious Emission	2412.000 (802.11n)	0.0	20.000000	PASS
RF output power	2437.000 (802.11n)	0.0	20.000000	PASS
Power Spectral Density	2437.000 (802.11n)	0.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2437.000 (802.11n)	0.0	20.000000	PASS
Tx Spurious Emission	2437.000 (802.11n)	0.0	20.000000	PASS
RF output power	2462.000 (802.11n)	0.0	20.000000	PASS
Power Spectral Density	2462.000 (802.11n)	0.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2462.000 (802.11n)	0.0	20.000000	PASS

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Band Edge high	2462.000 (802.11n)	0.0	20.000000	PASS
Tx Spurious Emission	2462.000 (802.11n)	0.0	20.000000	PASS
Minimum Emission Bandwidth 99%	2412.000 (802.11b)	0.0	20.000000	PASS
Minimum Emission Bandwidth 99%	2437.000 (802.11b)	0.0	20.000000	PASS
Minimum Emission Bandwidth 99%	2462.000 (802.11b)	0.0	20.000000	PASS
Minimum Emission Bandwidth 99%	2412.000 (802.11g)	0.0	20.000000	PASS
Minimum Emission Bandwidth 99%	2437.000 (802.11g)	0.0	20.000000	PASS
Minimum Emission Bandwidth 99%	2462.000 (802.11g)	0.0	20.000000	PASS
Minimum Emission Bandwidth 99%	2412.000 (802.11n)	0.0	20.000000	PASS
Minimum Emission Bandwidth 99%	2437.000 (802.11n)	0.0	20.000000	PASS
Minimum Emission Bandwidth 99%	2462.000 (802.11n)	0.0	20.000000	PASS

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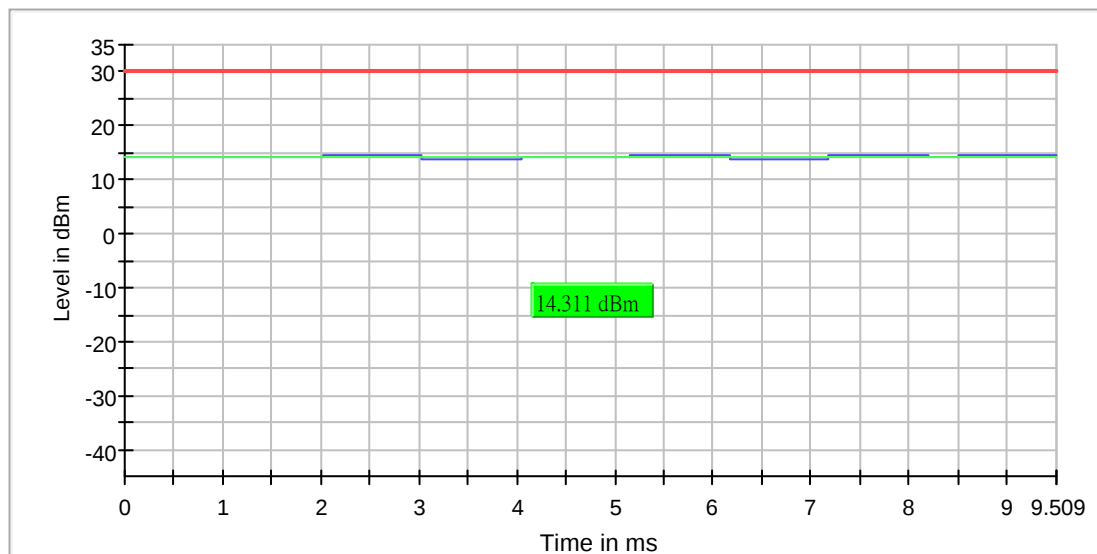
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RF output power (2412 MHz, 802.11b)

Result

DUT Frequency (MHz)	Gated EIRP (dBm)	Limit Max (dBm)	DutyCycle (%)	Result
2412.000000	14.3	30.0	1.032	PASS





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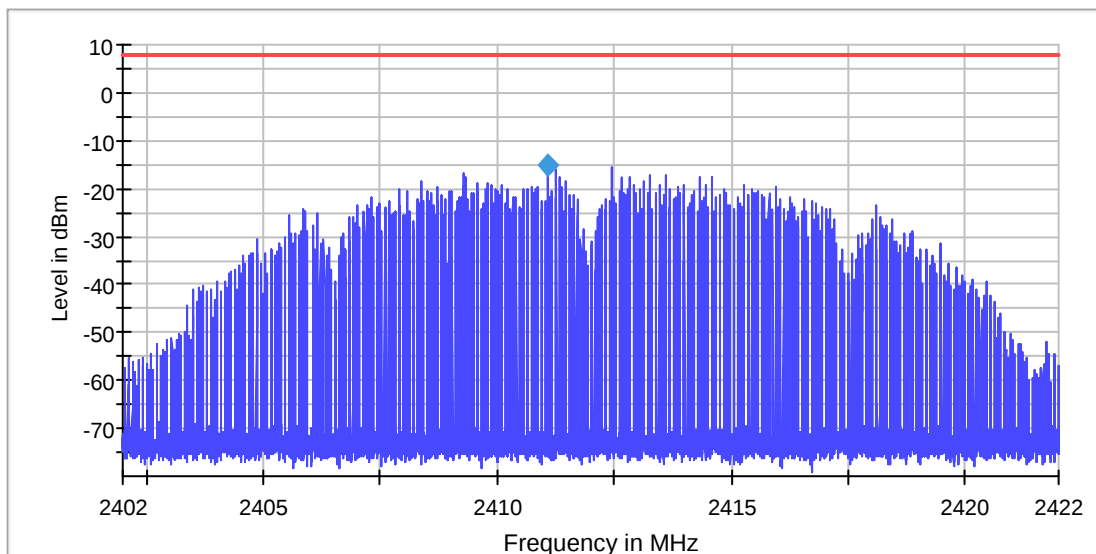
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Power Spectral Density (2412 MHz, 802.11b)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2411.090295	-15.191	8.0	PASS



Measurement

Setting	Instrument Value	Target Value	Setting	Instrument Value	Target Value
Start Frequency	2.40200 GHz	2.40200 GHz	Stablemode	Trace	Trace
Stop Frequency	2.42200 GHz	2.42200 GHz	Stablevalue	0.30	0.30
Span	20.000 MHz	20.000 MHz	Run	3 / max. 150	max. 150
RBW	3.000 kHz	<= 3.000 kHz	Stable	3 / 3	3
VBW	10.000 kHz	>= 9.000 kHz			
SweepPoints	13333	~ 13333			
SweepTime	13.400 s	13.333 s			
Reference Level	10.000 dBm	10.000 dBm			
Attenuation	30.000 dB	AUTO			
Detector	RMS	RMS			
SweepCount	1	1			
Filter	3 dB	3 dB			
Trace Mode	Max Hold	Max Hold			
SweepType	Sweep	AUTO			
Preamp	off	off			



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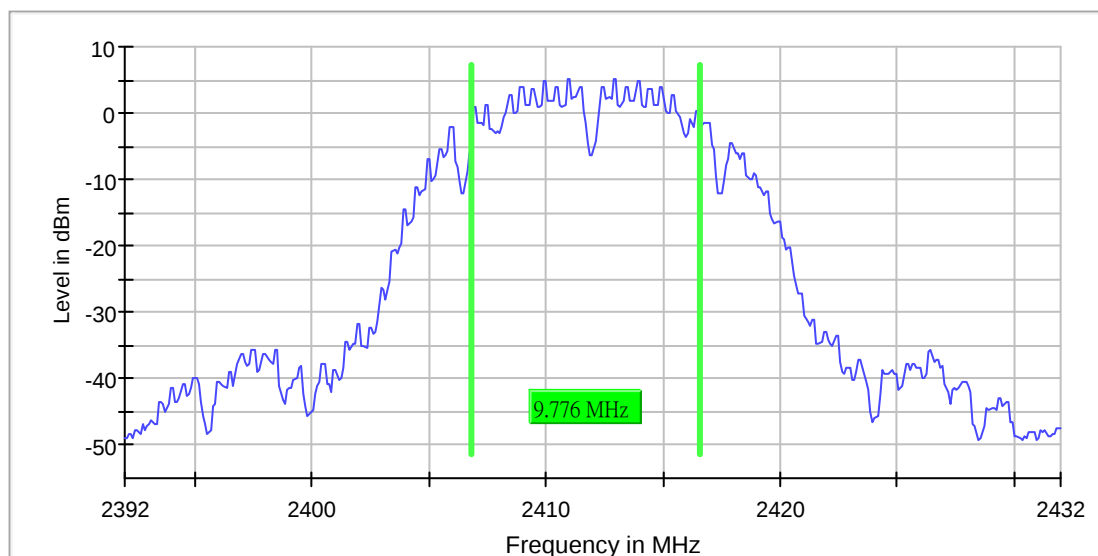
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Minimum Emission Bandwidth 6 dB (2412 MHz, 802.11b)

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2412.000000	9.775561	0.500000	---	2406.812968	2416.588529	5.2	PASS



Measurement

Setting	Instrument Value	Target Value	Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz	Stablemode	Trace	Trace
Stop Frequency	2.43200 GHz	2.43200 GHz	Stablevalue	0.30	0.30
Span	40.000 MHz	40.000 MHz	Run	140 / max. 150	max. 150
RBW	100.000 kHz	~ 100.000 kHz	Stable	15 / 15	15
VBW	300.000 kHz	~ 300.000 kHz			
SweepPoints	400	~ 400			
SweepTime	94.810 μ s	AUTO			
Reference Level	10.000 dBm	10.000 dBm			
Attenuation	30.000 dB	AUTO			
Detector	MaxPeak	MaxPeak			
SweepCount	100	100			
Filter	3 dB	3 dB			
Trace Mode	Max Hold	Max Hold			
Sweeptype	FFT	AUTO			
Preamp	off	off			

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Band Edge low (2412 MHz, 802.11b)

Result

DUT Frequency (MHz)	Result
2412.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
2412.967235	-4.7

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2396.926707	-47.1	22.4	-24.7	PASS
2398.425875	-47.2	22.4	-24.7	PASS
2399.175458	-47.4	22.7	-24.7	PASS
2396.177124	-48.0	23.2	-24.7	PASS
2396.626874	-48.7	24.0	-24.7	PASS
2396.876735	-48.8	24.1	-24.7	PASS
2398.475847	-48.8	24.1	-24.7	PASS
2399.275403	-48.9	24.2	-24.7	PASS
2396.476957	-50.2	25.5	-24.7	PASS
2394.378123	-50.6	25.9	-24.7	PASS
2396.526929	-50.8	26.1	-24.7	PASS
2398.875625	-51.1	26.4	-24.7	PASS
2393.928373	-51.5	26.8	-24.7	PASS
2399.325375	-51.6	26.9	-24.7	PASS
2394.228207	-52.0	27.3	-24.7	PASS



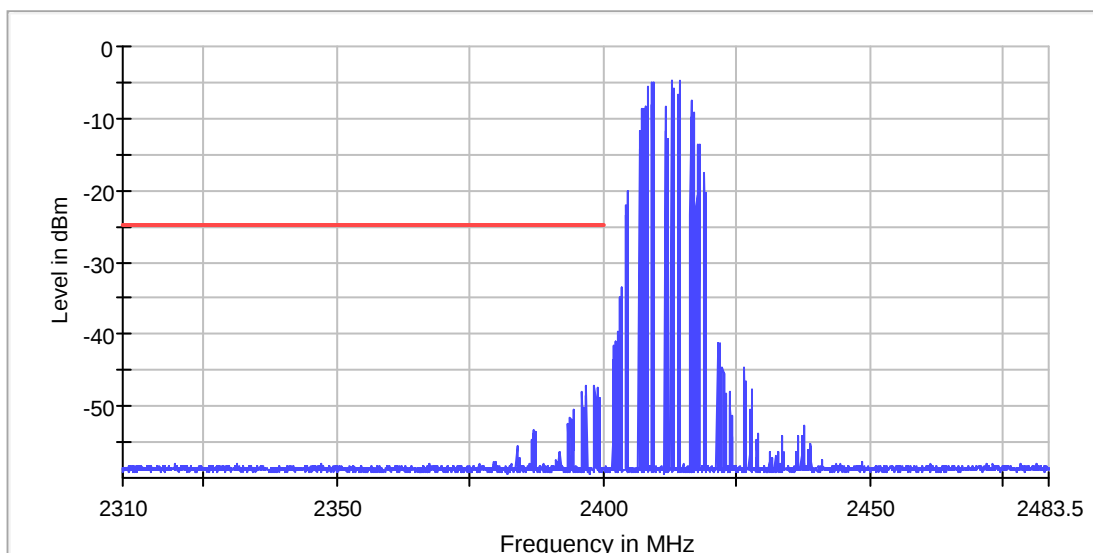
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Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
SweepTime	1.670 s	1.670 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1800	~ 1800
SweepTime	1.800 s	1.800 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3



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Tx Spurious Emission (2412 MHz, 802.11b)

Result

DUT Frequency (MHz)	Result
2412.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
4815.991781	-43.9	-63.6	-41.2	22.4	PASS
4823.990896	-30.7	-51.0	-41.2	9.8	PASS
4826.990563	-44.2	-63.4	-41.2	22.1	PASS
4831.990010	-44.6	-63.6	-41.2	22.3	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4823.990896	-30.7	-10.5	-41.2
4824.490840	-31.1	-10.1	-41.2
4823.490951	-31.7	-9.5	-41.2
4824.990785	-36.2	-5.0	-41.2
4822.991006	-38.1	-3.1	-41.2
4825.490729	-43.5	2.3	-41.2
4815.991781	-43.9	2.6	-41.2
4816.491726	-43.9	2.7	-41.2
4820.991228	-44.1	2.9	-41.2
4826.990563	-44.2	3.0	-41.2
4820.491283	-44.5	3.2	-41.2
4831.990010	-44.6	3.4	-41.2
4827.490508	-44.8	3.6	-41.2
4831.490065	-44.9	3.7	-41.2
4830.990121	-45.3	4.1	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	2400.000000	2	2
2400.000000	2483.500000	2	2
2483.500000	7000.000000	2	2
7000.000000	26000.000000	2	2

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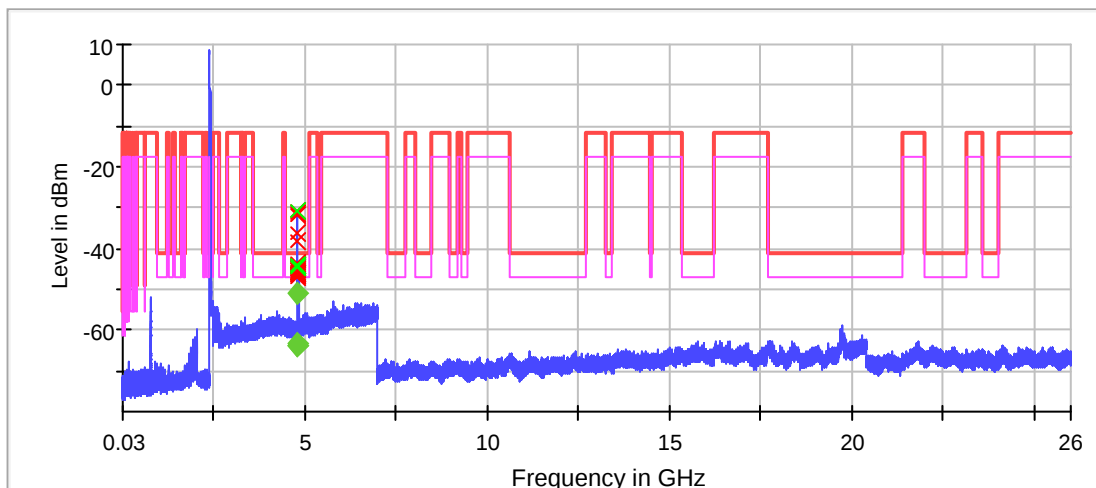
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× Limit [limit.Result:1] × Sum Level [trace.Result:1]
◆ Threshold [limit.2.Result:1] ◆ Critical [Over Limit.Result:1]

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 150	max. 150
Stable	3 / 3	3

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2800	~ 2800
SweepTime	2.800 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 150	max. 150
Stable	3 / 3	3



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Final Measurement 2

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	1.000 s	1.000 s
Reference Level	0.000 dBm	-10.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off



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TEST REPORT

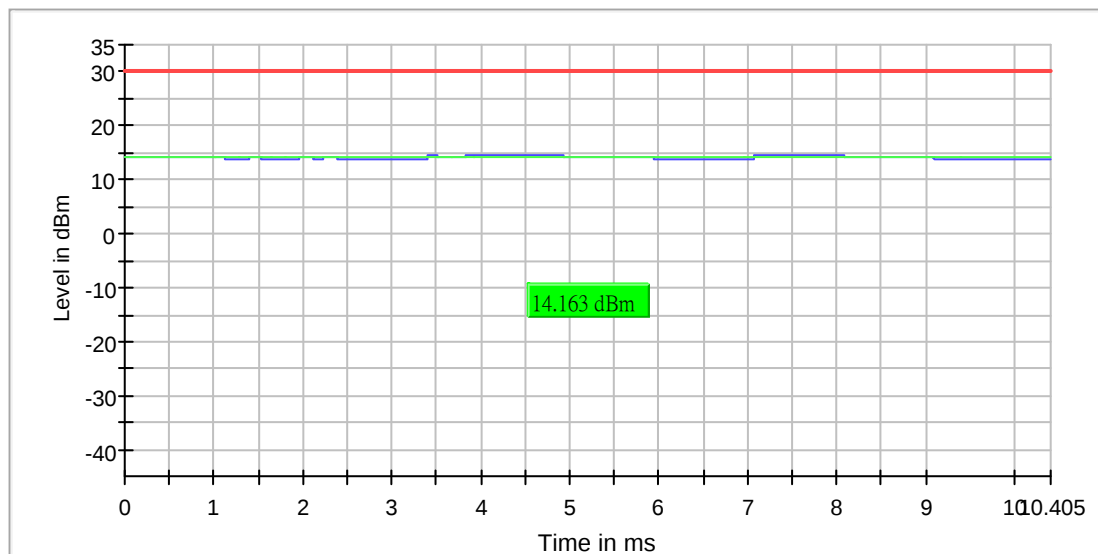
Report No. : AU0062274(0)

Date : 14 Nov 2016

RF output power (2437 MHz, 802.11b)

Result

DUT Frequency (MHz)	Gated EIRP (dBm)	Limit Max (dBm)	DutyCycle (%)	Result
2437.000000	14.2	30.0	1.270	PASS





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TEST REPORT

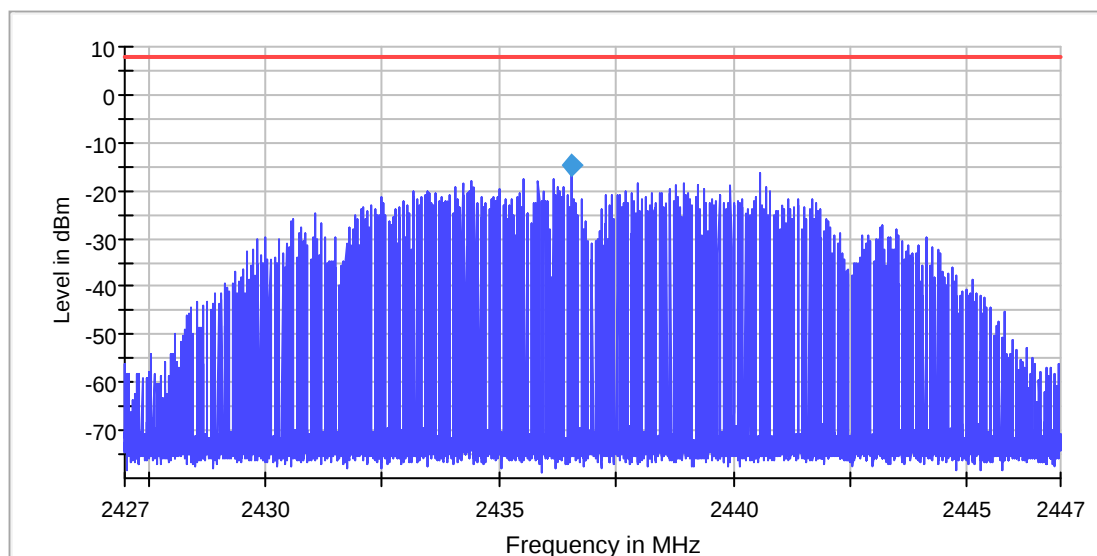
Report No. : AU0062274(0)

Date : 14 Nov 2016

Power Spectral Density (2437 MHz, 802.11b)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2436.537273	-14.500	8.0	PASS



Measurement

Setting	Instrument Value	Target Value		Setting	Instrument Value	Target Value
Start Frequency	2.42700 GHz	2.42700 GHz		Stablemode	Trace	Trace
Stop Frequency	2.44700 GHz	2.44700 GHz		Stablevalue	0.30	0.30
Span	20.000 MHz	20.000 MHz		Run	3 / max. 150	max. 150
RBW	3.000 kHz	<= 3.000 kHz		Stable	3 / 3	3
VBW	10.000 kHz	>= 9.000 kHz				
SweepPoints	13333	~ 13333				
SweepTime	13.400 s	13.333 s				
Reference Level	10.000 dBm	10.000 dBm				
Attenuation	30.000 dB	AUTO				
Detector	RMS	RMS				
SweepCount	1	1				
Filter	3 dB	3 dB				
Trace Mode	Max Hold	Max Hold				
Sweeptype	Sweep	AUTO				
Preamp	off	off				

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TEST REPORT

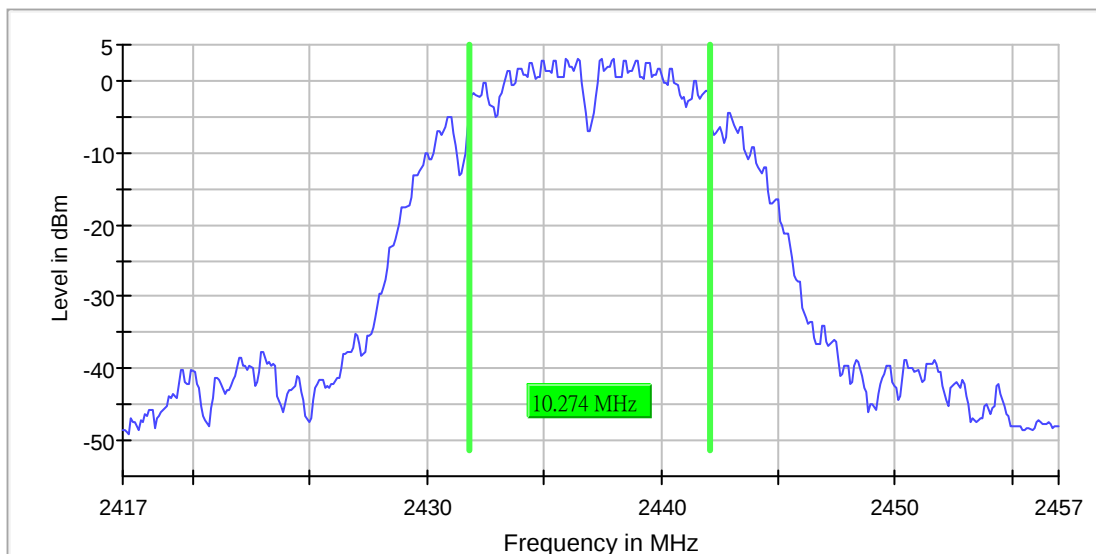
Report No. : AU0062274(0)

Date : 14 Nov 2016

Minimum Emission Bandwidth 6 dB (2437 MHz, 802.11b)

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2437.000000	10.274314	0.500000	---	2431.812968	2442.087282	2.9	PASS



Measurement

Setting	Instrument Value	Target Value	Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz	Stablemode	Trace	Trace
Stop Frequency	2.45700 GHz	2.45700 GHz	Stablevalue	0.30	0.30
Span	40.000 MHz	40.000 MHz	Run	121 / max. 150	max. 150
RBW	100.000 kHz	~ 100.000 kHz	Stable	15 / 15	15
VBW	300.000 kHz	~ 300.000 kHz			
SweepPoints	400	~ 400			
SweepTime	94.810 μ s	AUTO			
Reference Level	10.000 dBm	10.000 dBm			
Attenuation	30.000 dB	AUTO			
Detector	MaxPeak	MaxPeak			
SweepCount	100	100			
Filter	3 dB	3 dB			
Trace Mode	Max Hold	Max Hold			
SweepType	FFT	AUTO			
Preamp	off	off			



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TEST REPORT

Report No. : AU0062274(0)

Date : 14 Nov 2016

Tx Spurious Emission (2437 MHz, 802.11b)

Result

DUT Frequency (MHz)	Result
2437.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
4866.486191	-45.3	-64.8	-41.2	23.6	PASS
4870.985693	-44.0	-63.6	-41.2	22.4	PASS
4873.985361	-31.5	-51.6	-41.2	10.3	PASS
4881.484531	-44.1	-65.0	-41.2	23.8	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4873.985361	-31.5	-9.8	-41.2
4874.485306	-32.7	-8.6	-41.2
4873.485416	-32.9	-8.3	-41.2
4874.985250	-38.4	-2.8	-41.2
4872.985472	-41.6	0.4	-41.2
4870.985693	-44.0	2.8	-41.2
4881.484531	-44.1	2.9	-41.2
4870.485748	-44.8	3.5	-41.2
4877.484973	-45.0	3.8	-41.2
4866.486191	-45.3	4.0	-41.2
4877.984918	-45.3	4.0	-41.2
4865.986246	-45.3	4.1	-41.2
4876.985029	-45.7	4.4	-41.2
4871.485638	-45.8	4.6	-41.2
4881.984475	-46.2	5.0	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	2400.000000	2	2
2400.000000	2483.500000	2	2
2483.500000	7000.000000	2	2
7000.000000	26000.000000	2	2



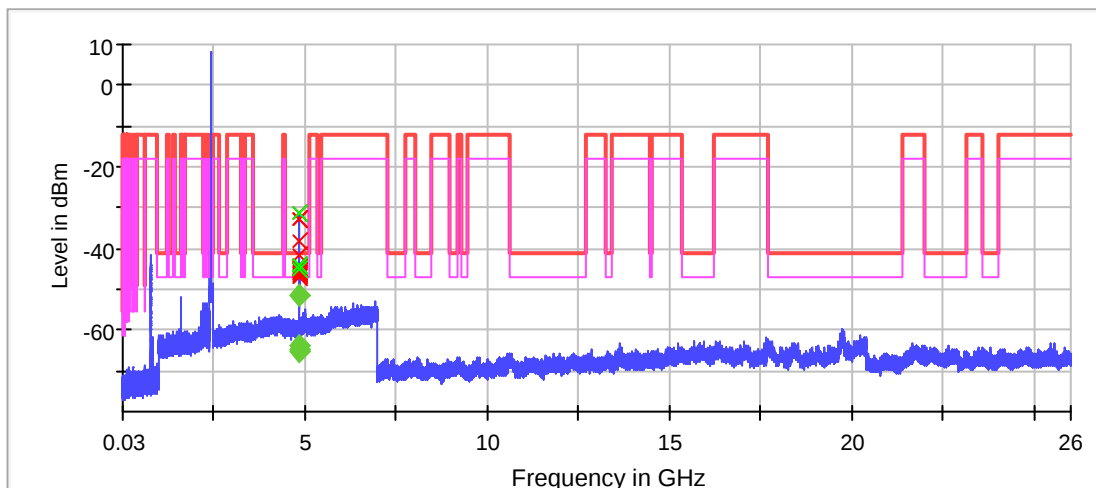
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TEST REPORT

Report No. : AU0062274(0)

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× Limit [limit.Result:1] × Sum Level [trace.Result:1]
◆ Threshold [limit.2.Result:1] ◆ Critical [Over Limit.Result:1]

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 150	max. 150
Stable	3 / 3	3

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2800	~ 2800
SweepTime	2.800 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 150	max. 150
Stable	3 / 3	3



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TEST REPORT

Report No. : AU0062274(0)

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Final Measurement 2

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	1.000 s	1.000 s
Reference Level	0.000 dBm	-10.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamplifier	off	off



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TEST REPORT

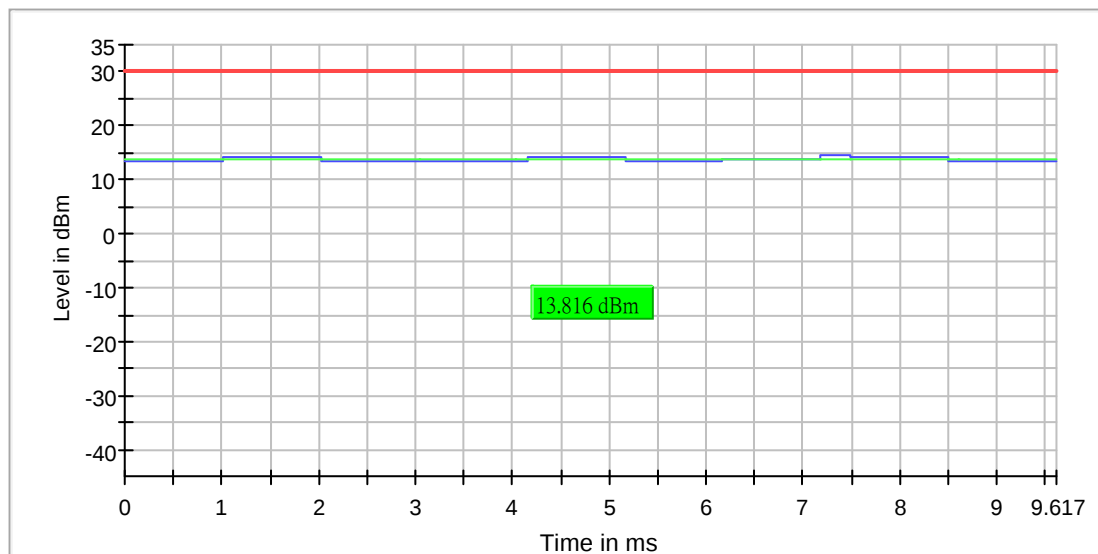
Report No. : AU0062274(0)

Date : 14 Nov 2016

RF output power (2462 MHz, 802.11b)

Result

DUT Frequency (MHz)	Gated EIRP (dBm)	Limit Max (dBm)	DutyCycle (%)	Result
2462.000000	13.8	30.0	1.044	PASS





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TEST REPORT

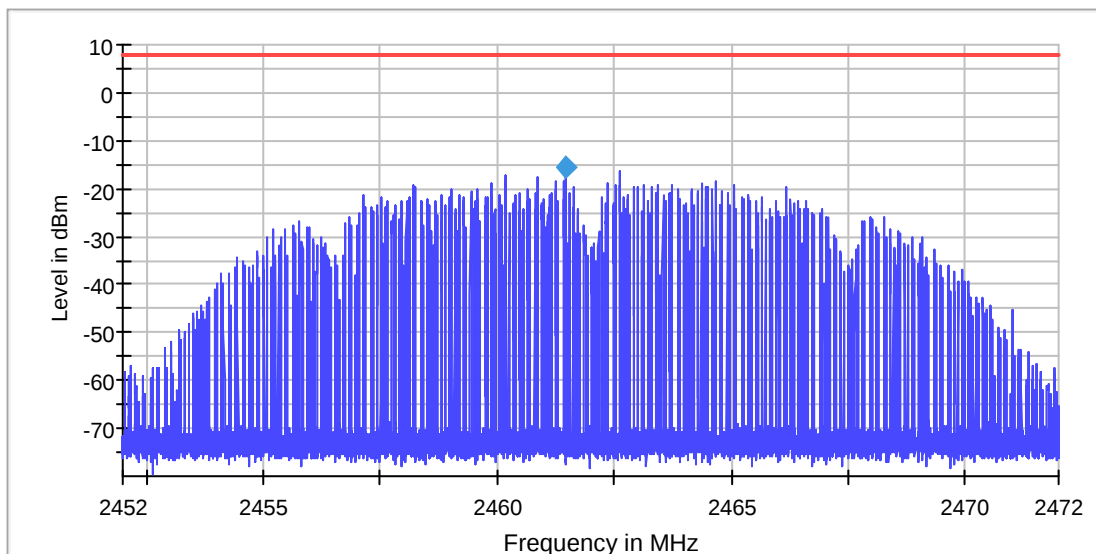
Report No. : AU0062274(0)

Date : 14 Nov 2016

Power Spectral Density (2462 MHz, 802.11b)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2462.000000	2461.463777	-15.417	8.0	PASS



Measurement

Setting	Instrument Value	Target Value		Setting	Instrument Value	Target Value
Start Frequency	2.45200 GHz	2.45200 GHz		Stablemode	Trace	Trace
Stop Frequency	2.47200 GHz	2.47200 GHz		Stablevalue	0.30	0.30
Span	20.000 MHz	20.000 MHz		Run	3 / max. 150	max. 150
RBW	3.000 kHz	<= 3.000 kHz		Stable	3 / 3	3
VBW	10.000 kHz	>= 9.000 kHz				
SweepPoints	13333	~ 13333				
SweepTime	13.400 s	13.333 s				
Reference Level	10.000 dBm	10.000 dBm				
Attenuation	30.000 dB	AUTO				
Detector	RMS	RMS				
SweepCount	1	1				
Filter	3 dB	3 dB				
Trace Mode	Max Hold	Max Hold				
Sweeptype	Sweep	AUTO				
Preamp	off	off				

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CMA Industrial Development Foundation Limited

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TEST REPORT

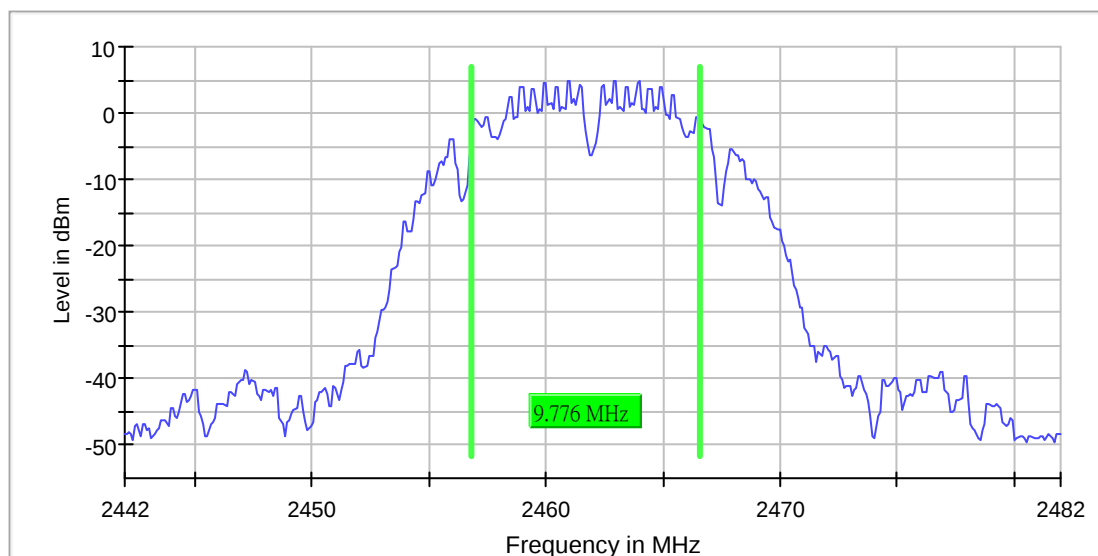
Report No. : AU0062274(0)

Date : 14 Nov 2016

Minimum Emission Bandwidth 6 dB (2462 MHz, 802.11b)

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2462.000000	9.775561	0.500000	---	2456.812968	2466.588529	4.9	PASS



Measurement

Setting	Instrument Value	Target Value	Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz	Stablemode	Trace	Trace
Stop Frequency	2.48200 GHz	2.48200 GHz	Stablevalue	0.30	0.30
Span	40.000 MHz	40.000 MHz	Run	95 / max. 150	max. 150
RBW	100.000 kHz	~ 100.000 kHz	Stable	15 / 15	15
VBW	300.000 kHz	~ 300.000 kHz			
SweepPoints	400	~ 400			
SweepTime	94.810 μ s	AUTO			
Reference Level	10.000 dBm	10.000 dBm			
Attenuation	30.000 dB	AUTO			
Detector	MaxPeak	MaxPeak			
SweepCount	100	100			
Filter	3 dB	3 dB			
Trace Mode	Max Hold	Max Hold			
Sweeptype	FFT	AUTO			
Preamp	off	off			

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TEST REPORT

Report No. : AU0062274(0)

Date : 14 Nov 2016

Band Edge high (2462 MHz, 802.11b)

Result

DUT Frequency (MHz)	Result
2462.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
2461.388241	-5.1

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2486.814955	-53.4	28.3	-25.1	PASS
2486.765106	-54.3	29.2	-25.1	PASS
2488.709215	-55.6	30.5	-25.1	PASS
2488.759063	-56.0	30.9	-25.1	PASS
2485.718278	-56.1	31.0	-25.1	PASS
2486.715257	-56.1	31.1	-25.1	PASS
2483.923716	-56.8	31.7	-25.1	PASS
2483.824018	-56.9	31.8	-25.1	PASS
2483.873867	-57.3	32.2	-25.1	PASS
2490.653323	-57.4	32.3	-25.1	PASS
2484.920695	-57.5	32.4	-25.1	PASS
2488.808912	-57.6	32.5	-25.1	PASS
2489.756042	-57.6	32.5	-25.1	PASS
2491.500755	-57.7	32.6	-25.1	PASS
2494.691088	-57.7	32.6	-25.1	PASS



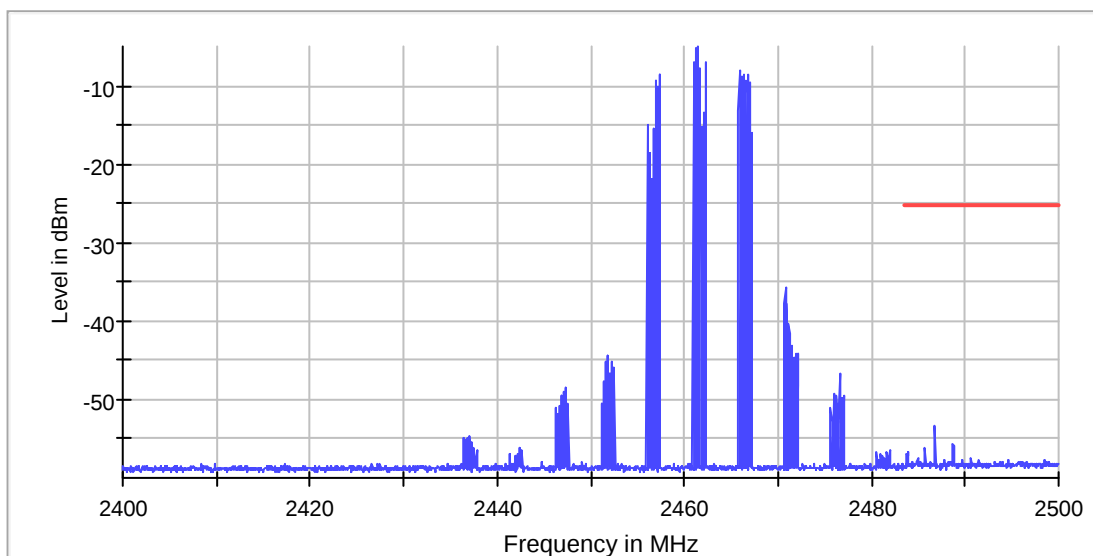
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TEST REPORT

Report No. : AU0062274(0)

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Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
SweepTime	1.670 s	1.670 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	330	~ 330
SweepTime	330.000 ms	330.000 ms
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3



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TEST REPORT

Report No. : AU0062274(0)

Date : 14 Nov 2016

Tx Spurious Emission (2462 MHz, 802.11b)

Result

DUT Frequency (MHz)	Result
2462.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
2488.249474	-41.2	-64.9	-41.2	23.7	PASS
4915.980712	-45.6	-64.8	-41.2	23.6	PASS
4923.979826	-33.7	-54.0	-41.2	12.7	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4923.979826	-33.7	-7.6	-41.2
4924.479771	-35.5	-5.7	-41.2
4923.479882	-35.8	-5.5	-41.2
4924.979716	-40.0	-1.3	-41.2
2488.249474	-41.2	0.0	-41.2
4922.979937	-41.3	0.0	-41.2
2487.749530	-43.0	1.8	-41.2
2484.249917	-44.1	2.8	-41.2
2487.249585	-44.1	2.8	-41.2
2488.749419	-44.4	3.2	-41.2
2489.249364	-44.8	3.6	-41.2
2489.749308	-44.9	3.7	-41.2
2484.749862	-45.1	3.8	-41.2
2483.749972	-45.3	4.1	-41.2
4915.980712	-45.6	4.4	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	2400.000000	2	2
2400.000000	2483.500000	2	2
2483.500000	7000.000000	2	2
7000.000000	26000.000000	2	2



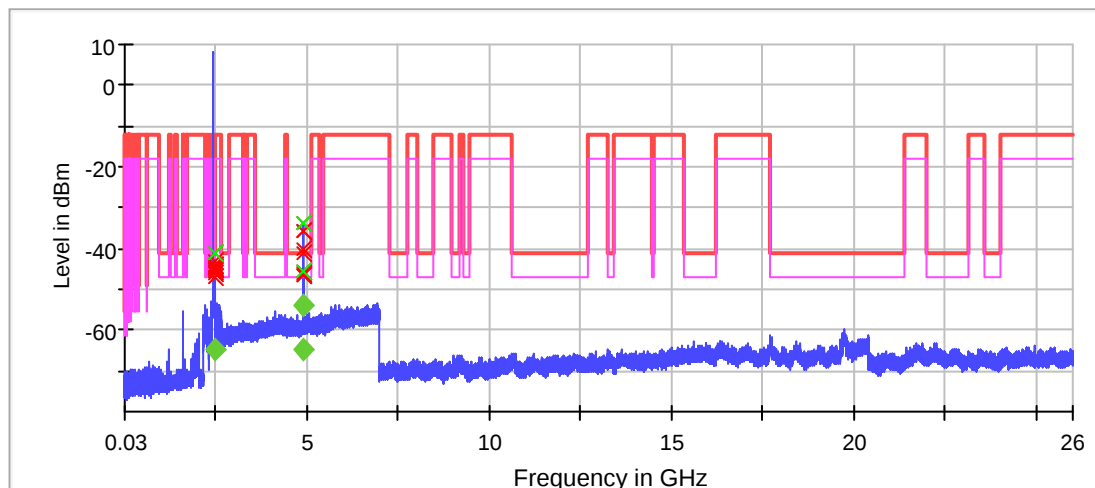
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TEST REPORT

Report No. : AU0062274(0)

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× Limit [limit.Result:1] × Sum Level [trace.Result:1]
◆ Threshold [limit.2.Result:1] ◆ Critical [Over Limit.Result:1]

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 150	max. 150
Stable	3 / 3	3

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2800	~ 2800
SweepTime	2.800 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 150	max. 150
Stable	3 / 3	3



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TEST REPORT

Report No. : AU0062274(0)

Date : 14 Nov 2016

Final Measurement 2

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	1.000 s	1.000 s
Reference Level	0.000 dBm	-10.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off



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TEST REPORT

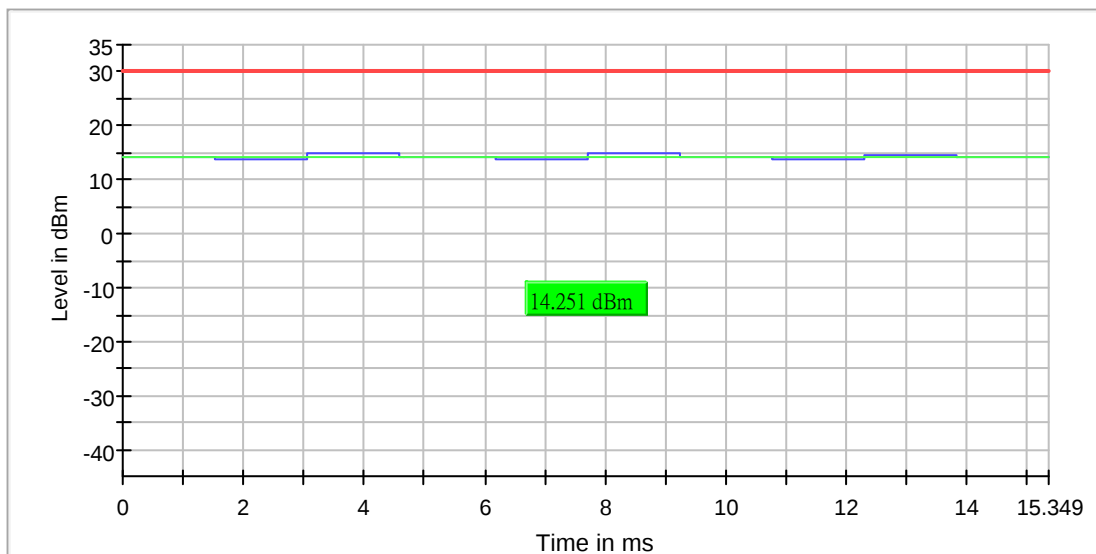
Report No. : AU0062274(0)

Date : 14 Nov 2016

RF output power (2412 MHz, 802.11g)

Result

DUT Frequency (MHz)	Gated EIRP (dBm)	Limit Max (dBm)	DutyCycle (%)	Result
2412.000000	14.3	30.0	1.555	PASS





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TEST REPORT

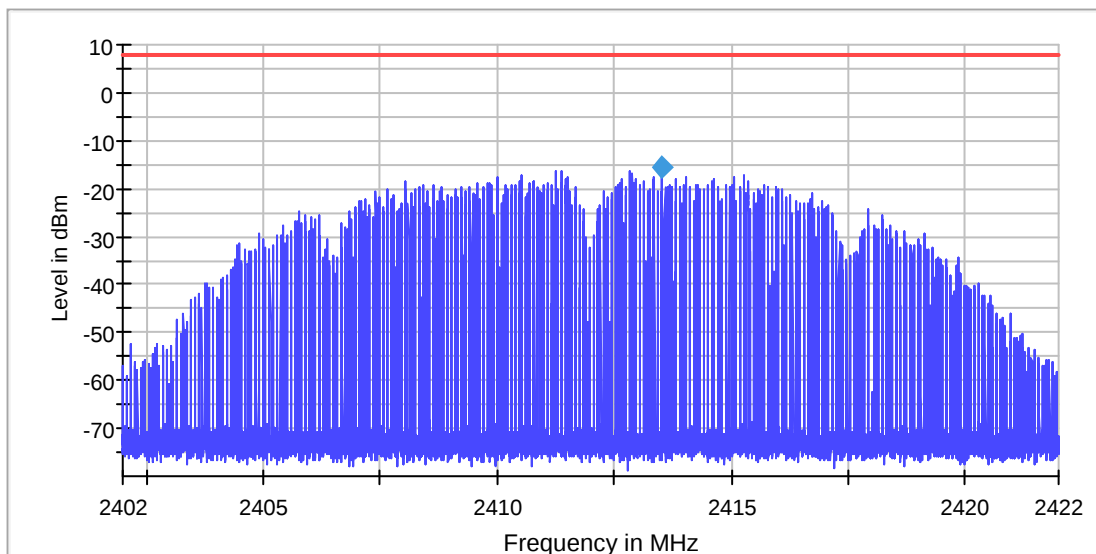
Report No. : AU0062274(0)

Date : 14 Nov 2016

Power Spectral Density (2412 MHz, 802.11g)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2413.506675	-15.589	8.0	PASS



Measurement

Setting	Instrument Value	Target Value	Setting	Instrument Value	Target Value
Start Frequency	2.40200 GHz	2.40200 GHz	Stablemode	Trace	Trace
Stop Frequency	2.42200 GHz	2.42200 GHz	Stablevalue	0.30	0.30
Span	20.000 MHz	20.000 MHz	Run	3 / max. 150	max. 150
RBW	3.000 kHz	<= 3.000 kHz	Stable	3 / 3	3
VBW	10.000 kHz	>= 9.000 kHz			
SweepPoints	13333	~ 13333			
SweepTime	13.400 s	13.333 s			
Reference Level	10.000 dBm	10.000 dBm			
Attenuation	30.000 dB	AUTO			
Detector	RMS	RMS			
SweepCount	1	1			
Filter	3 dB	3 dB			
Trace Mode	Max Hold	Max Hold			
SweepType	Sweep	AUTO			
Preamp	off	off			



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TEST REPORT

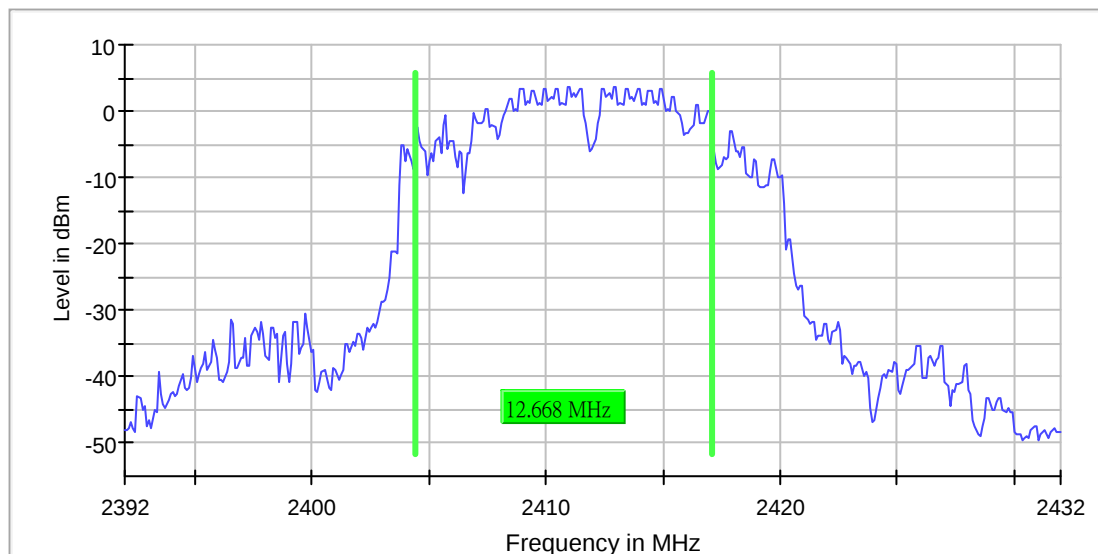
Report No. : AU0062274(0)

Date : 14 Nov 2016

Minimum Emission Bandwidth 6 dB (2412 MHz, 802.11g)

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2412.000000	12.668329	0.500000	---	2404.418953	2417.087282	3.7	PASS



Measurement

Setting	Instrument Value	Target Value	Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz	Stablemode	Trace	Trace
Stop Frequency	2.43200 GHz	2.43200 GHz	Stablevalue	0.30	0.30
Span	40.000 MHz	40.000 MHz	Run	80 / max. 150	max. 150
RBW	100.000 kHz	~ 100.000 kHz	Stable	15 / 15	15
VBW	300.000 kHz	~ 300.000 kHz			
SweepPoints	400	~ 400			
SweepTime	94.810 μ s	AUTO			
Reference Level	10.000 dBm	10.000 dBm			
Attenuation	30.000 dB	AUTO			
Detector	MaxPeak	MaxPeak			
SweepCount	100	100			
Filter	3 dB	3 dB			
Trace Mode	Max Hold	Max Hold			
Sweeptype	FFT	AUTO			
Preamplifier	off	off			



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TEST REPORT

Report No. : AU0062274(0)

Date : 14 Nov 2016

Band Edge low (2412 MHz, 802.11g)

Result

DUT Frequency (MHz)	Result
2412.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
2412.817325	-3.5

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2397.926152	-42.2	18.7	-23.5	PASS
2397.976124	-43.3	19.7	-23.5	PASS
2397.226541	-44.8	21.3	-23.5	PASS
2397.526374	-45.8	22.3	-23.5	PASS
2397.276513	-46.4	22.8	-23.5	PASS
2397.676291	-46.7	23.2	-23.5	PASS
2397.476402	-46.8	23.2	-23.5	PASS
2397.626319	-47.7	24.1	-23.5	PASS
2394.977790	-47.9	24.4	-23.5	PASS
2394.827873	-48.1	24.5	-23.5	PASS
2397.576346	-49.8	26.2	-23.5	PASS
2399.925042	-50.0	26.4	-23.5	PASS
2399.775125	-50.0	26.4	-23.5	PASS
2394.877846	-50.5	26.9	-23.5	PASS
2395.027762	-51.0	27.4	-23.5	PASS



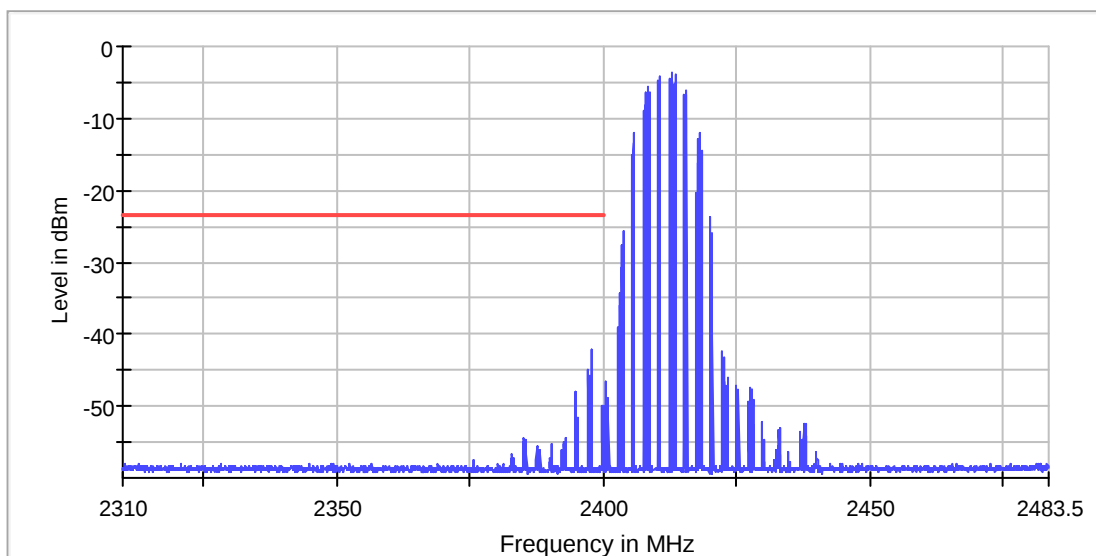
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Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
SweepTime	1.670 s	1.670 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1800	~ 1800
SweepTime	1.800 s	1.800 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3



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TEST REPORT

Report No. : AU0062274(0)

Date : 14 Nov 2016

Tx Spurious Emission (2412 MHz, 802.11g)

Result

DUT Frequency (MHz)	Result
2412.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
1608.032845	-49.6	8.4	-41.2
1608.532667	-49.9	8.7	-41.2
1607.533024	-50.2	9.0	-41.2
1609.032488	-55.3	14.1	-41.2
4121.068713	-55.6	14.3	-41.2
4120.568768	-55.7	14.4	-41.2
5437.422985	-55.7	14.4	-41.2
5018.469366	-56.3	15.1	-41.2
5017.969421	-56.4	15.1	-41.2
5377.429627	-56.4	15.2	-41.2
5456.920827	-56.5	15.2	-41.2
3998.082328	-56.5	15.3	-41.2
4340.044471	-56.5	15.3	-41.2
5044.966432	-56.5	15.3	-41.2
1607.033202	-56.6	15.4	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	2400.000000	2	2
2400.000000	2483.500000	2	2
2483.500000	7000.000000	2	2
7000.000000	26000.000000	2	2



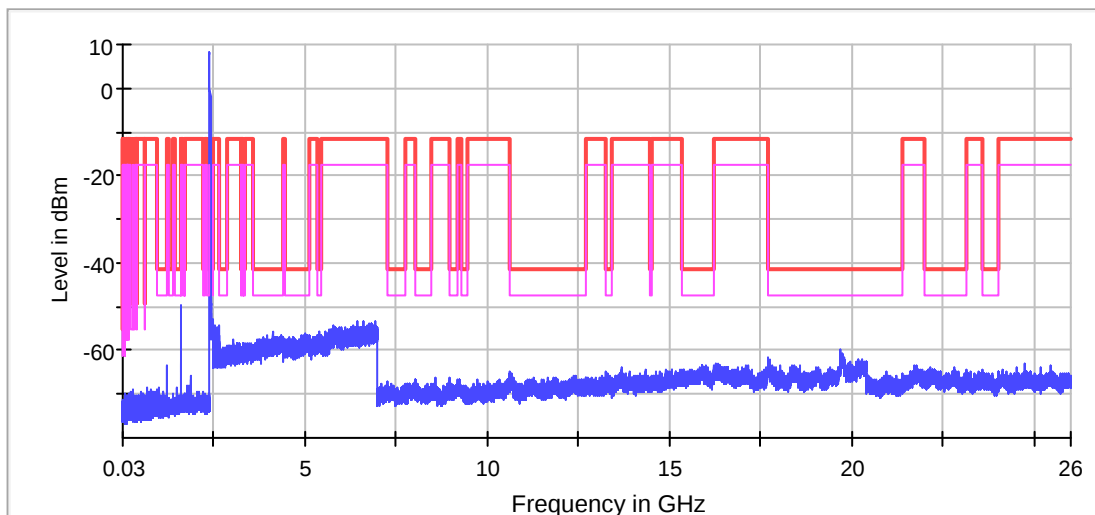
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TEST REPORT

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✗ Limit [limit.Result:1] ✗ Sum Level [trace.Result:1]

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 150	max. 150
Stable	3 / 3	3

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2800	~ 2800
SweepTime	2.800 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 150	max. 150
Stable	3 / 3	3



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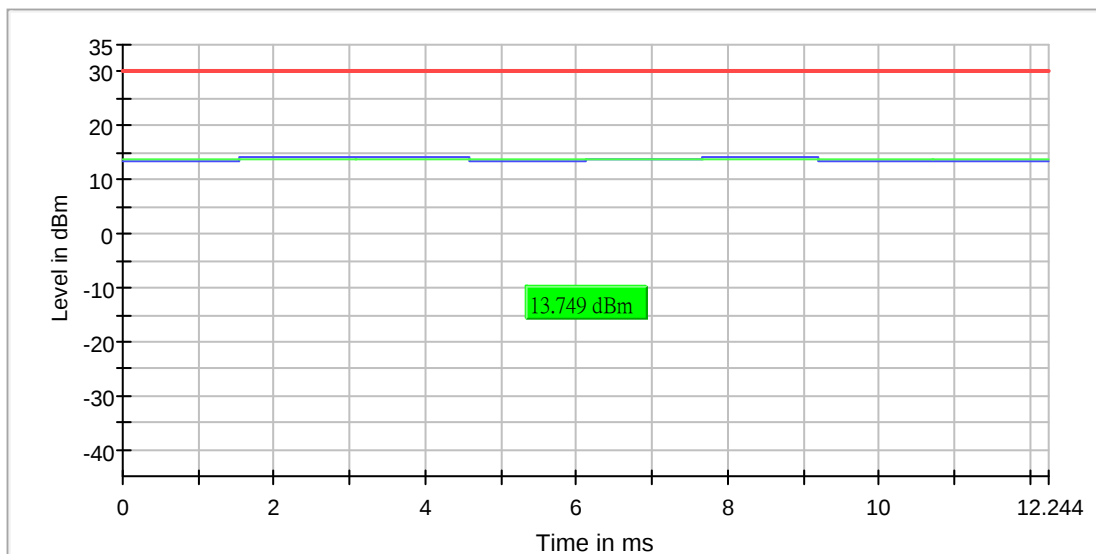
Report No. : AU0062274(0)

Date : 14 Nov 2016

RF output power (2437 MHz, 802.11g)

Result

DUT Frequency (MHz)	Gated EIRP (dBm)	Limit Max (dBm)	DutyCycle (%)	Result
2437.000000	13.7	30.0	1.495	PASS





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TEST REPORT

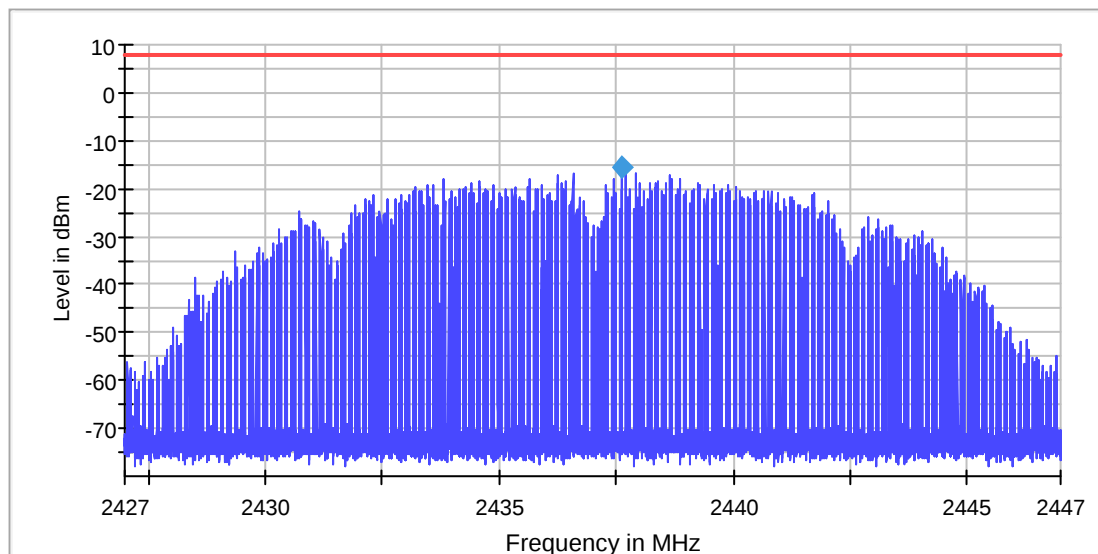
Report No. : AU0062274(0)

Date : 14 Nov 2016

Power Spectral Density (2437 MHz, 802.11g)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2437.638218	-15.717	8.0	PASS



Measurement

Setting	Instrument Value	Target Value	Setting	Instrument Value	Target Value
Start Frequency	2.42700 GHz	2.42700 GHz	Stablemode	Trace	Trace
Stop Frequency	2.44700 GHz	2.44700 GHz	Stablevalue	0.30	0.30
Span	20.000 MHz	20.000 MHz	Run	3 / max. 150	max. 150
RBW	3.000 kHz	<= 3.000 kHz	Stable	3 / 3	3
VBW	10.000 kHz	>= 9.000 kHz			
SweepPoints	13333	~ 13333			
SweepTime	13.400 s	13.333 s			
Reference Level	10.000 dBm	10.000 dBm			
Attenuation	30.000 dB	AUTO			
Detector	RMS	RMS			
SweepCount	1	1			
Filter	3 dB	3 dB			
Trace Mode	Max Hold	Max Hold			
Sweeptype	Sweep	AUTO			
Preamplifier	off	off			

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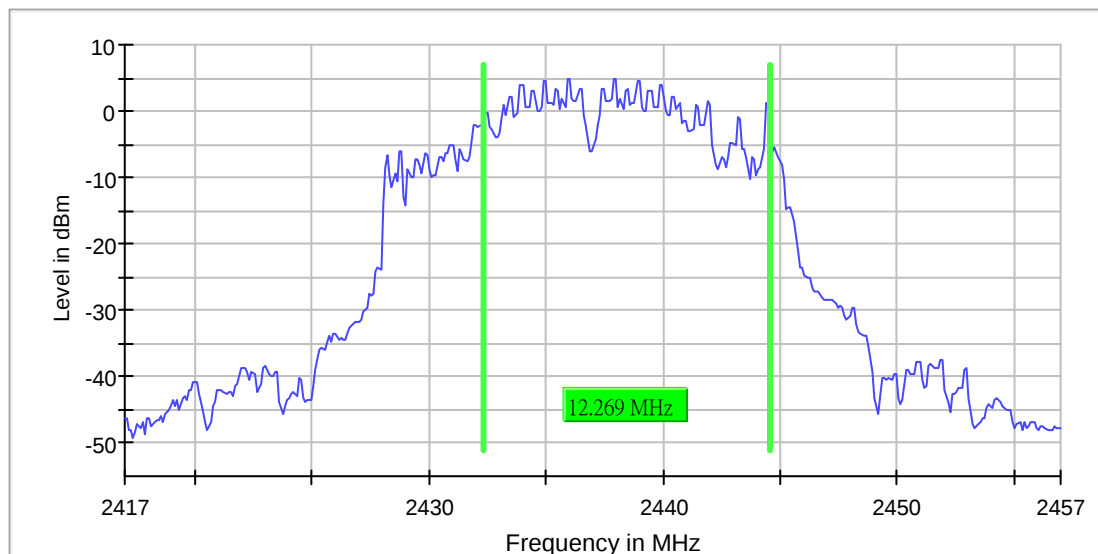
Report No. : AU0062274(0)

Date : 14 Nov 2016

Minimum Emission Bandwidth 6 dB (2437 MHz, 802.11g)

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2437.000000	12.269326	0.500000	---	2432.311721	2444.581047	4.9	PASS



Measurement

Setting	Instrument Value	Target Value	Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz	Stablemode	Trace	Trace
Stop Frequency	2.45700 GHz	2.45700 GHz	Stablevalue	0.30	0.30
Span	40.000 MHz	40.000 MHz	Run	135 / max. 150	max. 150
RBW	100.000 kHz	~ 100.000 kHz	Stable	15 / 15	15
VBW	300.000 kHz	~ 300.000 kHz			
SweepPoints	400	~ 400			
SweepTime	94.810 μ s	AUTO			
Reference Level	10.000 dBm	10.000 dBm			
Attenuation	30.000 dB	AUTO			
Detector	MaxPeak	MaxPeak			
SweepCount	100	100			
Filter	3 dB	3 dB			
Trace Mode	Max Hold	Max Hold			
Sweeptype	FFT	AUTO			
Preamp	off	off			

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Tx Spurious Emission (2437 MHz, 802.11g)

Result

DUT Frequency (MHz)	Result
2437.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2229.310960	-53.2	11.9	-41.2
2264.298465	-53.3	12.1	-41.2
2218.314888	-54.1	12.9	-41.2
2369.760800	-54.4	13.2	-41.2
2357.265262	-54.7	13.5	-41.2
2219.814352	-55.3	14.0	-41.2
4399.037940	-55.3	14.1	-41.2
2283.291682	-55.3	14.1	-41.2
2491.749087	-55.5	14.2	-41.2
2317.779365	-55.6	14.3	-41.2
2210.317744	-55.6	14.3	-41.2
2245.805070	-55.6	14.3	-41.2
2257.300964	-55.6	14.4	-41.2
2246.304891	-55.7	14.4	-41.2
2245.305248	-55.8	14.5	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	2400.000000	2	2
2400.000000	2483.500000	2	2
2483.500000	7000.000000	2	2
7000.000000	26000.000000	2	2



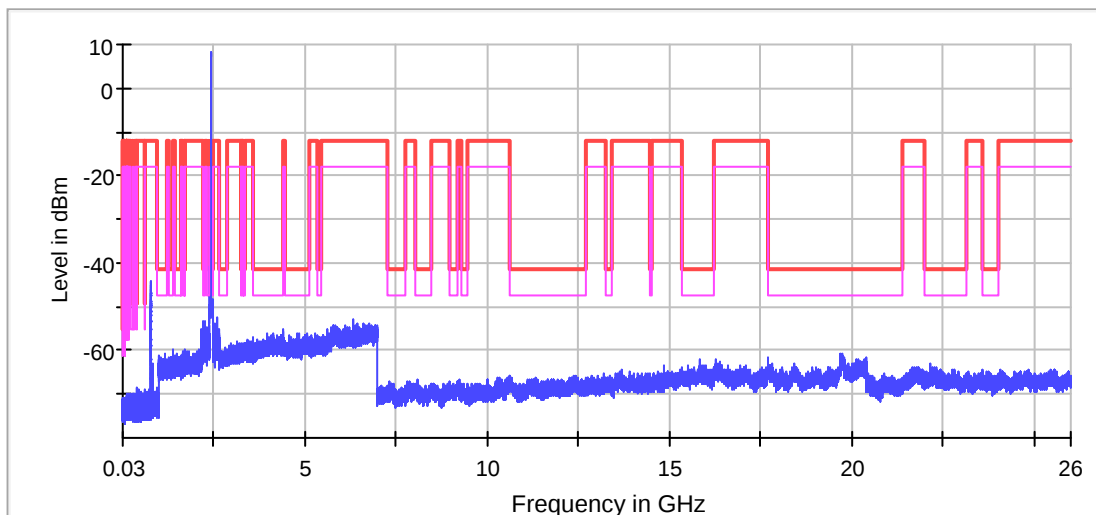
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✗ Limit [limit.Result:1] ✕ Sum Level [trace.Result:1]

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 150	max. 150
Stable	3 / 3	3

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2800	~ 2800
SweepTime	2.800 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 150	max. 150
Stable	3 / 3	3



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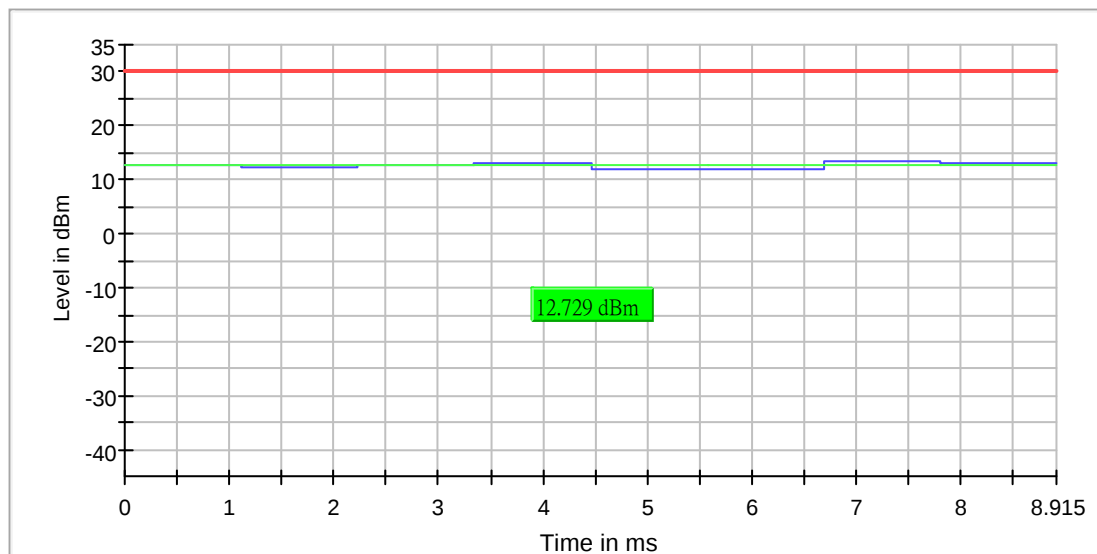
Report No. : AU0062274(0)

Date : 14 Nov 2016

RF output power (2462 MHz, 802.11g)

Result

DUT Frequency (MHz)	Gated EIRP (dBm)	Limit Max (dBm)	Duty Cycle (%)	Result
2462.000000	12.7	30.0	1.088	PASS





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TEST REPORT

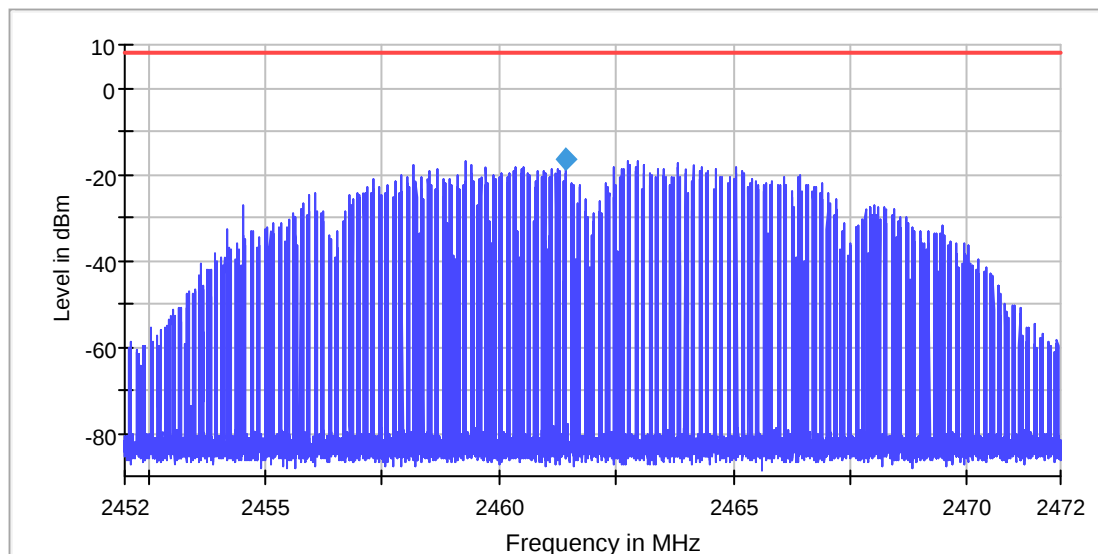
Report No. : AU0062274(0)

Date : 14 Nov 2016

Power Spectral Density (2462 MHz, 802.11g)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2462.000000	2461.429279	-16.553	8.0	PASS



Measurement

Setting	Instrument Value	Target Value	Setting	Instrument Value	Target Value
Start Frequency	2.45200 GHz	2.45200 GHz	Stablemode	Trace	Trace
Stop Frequency	2.47200 GHz	2.47200 GHz	Stablevalue	0.30	0.30
Span	20.000 MHz	20.000 MHz	Run	3 / max. 150	max. 150
RBW	3.000 kHz	<= 3.000 kHz	Stable	3 / 3	3
VBW	10.000 kHz	>= 9.000 kHz			
SweepPoints	13333	~ 13333			
SweepTime	13.400 s	13.333 s			
Reference Level	0.000 dBm	0.000 dBm			
Attenuation	20.000 dB	AUTO			
Detector	RMS	RMS			
SweepCount	1	1			
Filter	3 dB	3 dB			
Trace Mode	Max Hold	Max Hold			
Sweeptype	Sweep	AUTO			
Preamp	off	off			

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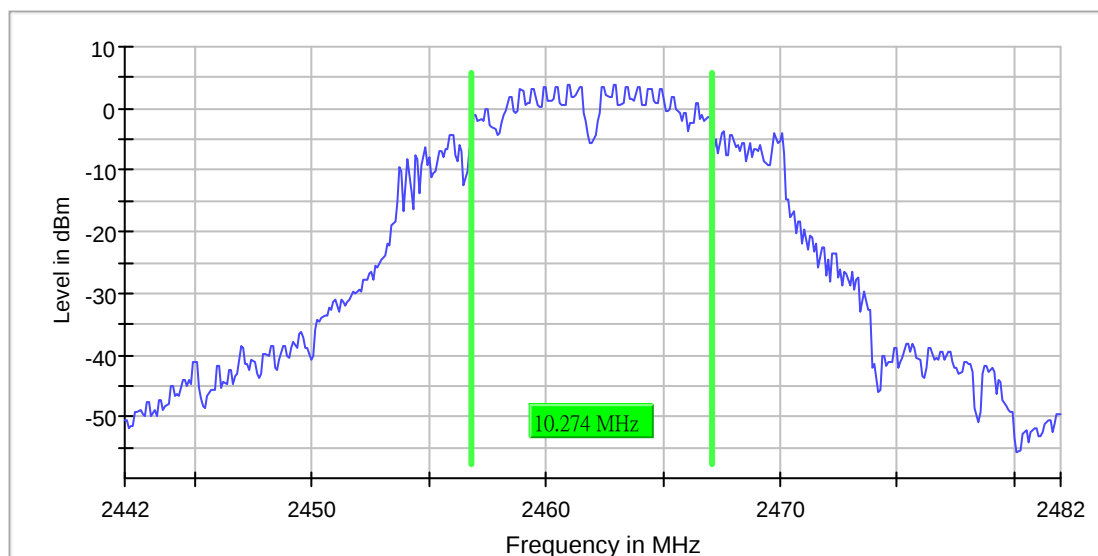
Report No. : AU0062274(0)

Date : 14 Nov 2016

Minimum Emission Bandwidth 6 dB (2462 MHz, 802.11g)

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2462.000000	10.274314	0.500000	---	2456.812968	2467.087282	3.8	PASS



Measurement

Setting	Instrument Value	Target Value	Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz	Stablemode	Trace	Trace
Stop Frequency	2.48200 GHz	2.48200 GHz	Stablevalue	0.30	0.30
Span	40.000 MHz	40.000 MHz	Run	97 / max. 150	max. 150
RBW	100.000 kHz	~ 100.000 kHz	Stable	15 / 15	15
VBW	300.000 kHz	~ 300.000 kHz			
SweepPoints	400	~ 400			
SweepTime	94.810 μ s	AUTO			
Reference Level	0.000 dBm	0.000 dBm			
Attenuation	20.000 dB	AUTO			
Detector	MaxPeak	MaxPeak			
SweepCount	100	100			
Filter	3 dB	3 dB			
Trace Mode	Max Hold	Max Hold			
Sweeptype	FFT	AUTO			
Preamp	off	off			

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Band Edge high (2462 MHz, 802.11g)

Result

DUT Frequency (MHz)	Result
2462.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
2463.836774	-4.3

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2487.712236	-55.2	30.9	-24.3	PASS
2487.762085	-55.9	31.6	-24.3	PASS
2488.160876	-56.1	31.9	-24.3	PASS
2486.565710	-56.2	31.9	-24.3	PASS
2487.114048	-57.0	32.8	-24.3	PASS
2483.674471	-57.2	32.9	-24.3	PASS
2487.163897	-57.6	33.4	-24.3	PASS
2488.509819	-58.2	33.9	-24.3	PASS
2485.817976	-58.5	34.2	-24.3	PASS
2485.768127	-58.5	34.3	-24.3	PASS
2483.624622	-58.7	34.5	-24.3	PASS
2484.820997	-59.2	34.9	-24.3	PASS
2488.559668	-59.4	35.2	-24.3	PASS
2484.671450	-59.5	35.2	-24.3	PASS
2490.104985	-59.7	35.5	-24.3	PASS



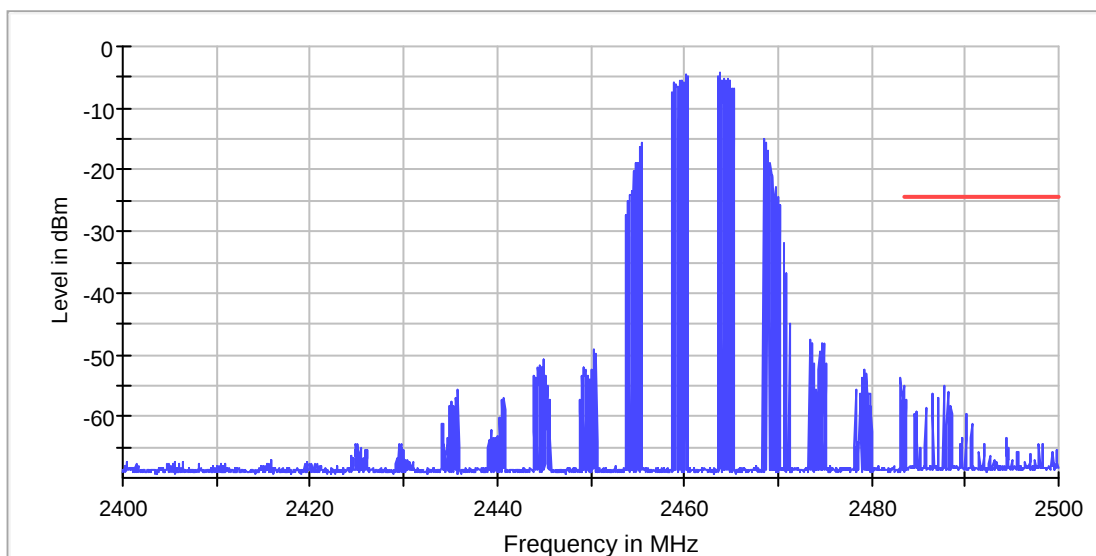
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Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	1670	~ 1670
SweepTime	1.670 s	1.670 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	330	~ 330
SweepTime	330.000 ms	330.000 ms
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3



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TEST REPORT

Report No. : AU0062274(0)

Date : 14 Nov 2016

Tx Spurious Emission (2462 MHz, 802.11g)

Result

DUT Frequency (MHz)	Result
2462.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
2484.249917	-44.6	-67.0	-41.2	25.7	PASS
2487.749530	-42.0	-63.9	-41.2	22.7	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2487.749530	-42.0	0.7	-41.2
2488.749419	-43.0	2.1	-41.2
2488.249474	-44.0	2.7	-41.2
2489.249364	-44.2	2.9	-41.2
2484.249917	-44.6	3.4	-41.2
2483.749972	-44.8	3.6	-41.2
2487.249585	-45.1	3.8	-41.2
2486.749640	-45.1	3.9	-41.2
2485.249806	-46.6	5.3	-41.2
2486.249696	-46.9	5.7	-41.2
2485.749751	-47.1	5.8	-41.2
2489.749308	-47.7	6.5	-41.2
2490.749197	-49.1	7.9	-41.2
2491.249142	-49.1	7.9	-41.2
2499.748201	-49.8	8.6	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	2400.000000	2	2
2400.000000	2483.500000	2	2
2483.500000	7000.000000	2	2
7000.000000	26000.000000	2	2



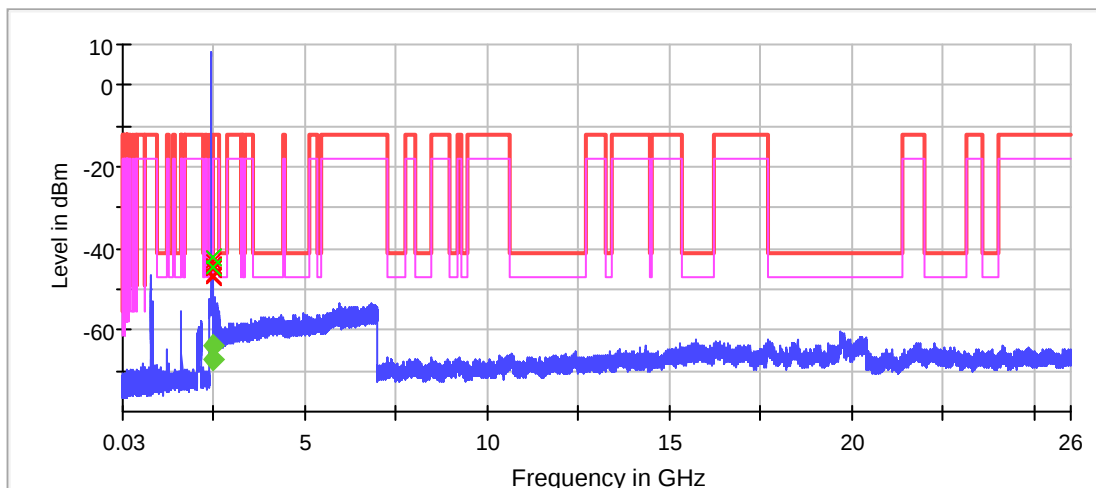
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TEST REPORT

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Date : 14 Nov 2016



× Limit [limit.Result:1] × Sum Level [trace.Result:1]
◆ Threshold [limit.2.Result:1] ◆ Critical [Over Limit.Result:1]

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 150	max. 150
Stable	3 / 3	3

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2800	~ 2800
SweepTime	2.800 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 150	max. 150
Stable	3 / 3	3



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TEST REPORT

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Final Measurement 2

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	1.000 s	1.000 s
Reference Level	0.000 dBm	-10.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamplifier	off	off



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TEST REPORT

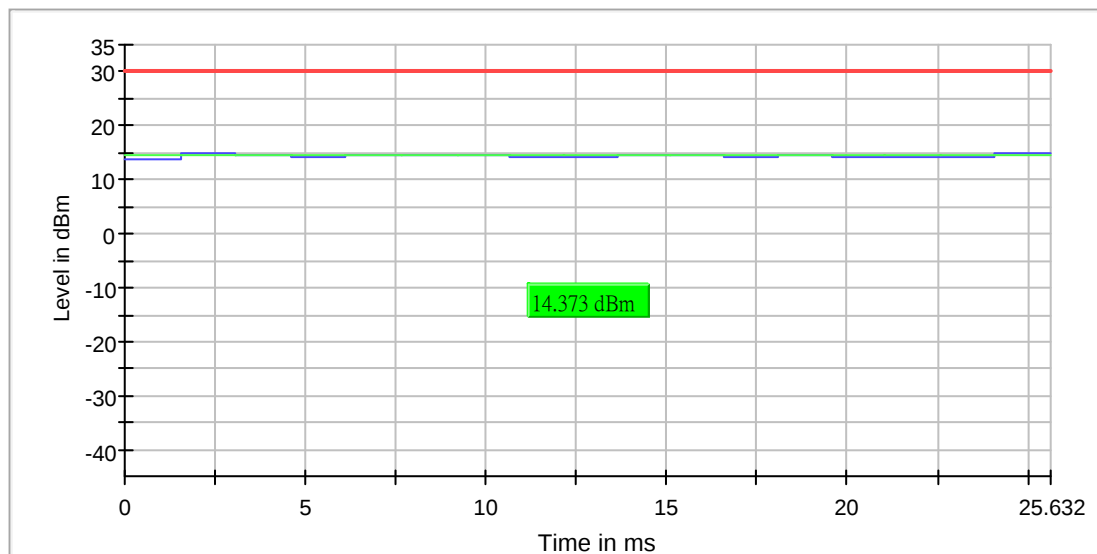
Report No. : AU0062274(0)

Date : 14 Nov 2016

RF output power (2412 MHz, 802.11n)

Result

DUT Frequency (MHz)	Gated EIRP (dBm)	Limit Max (dBm)	DutyCycle (%)	Result
2412.000000	14.4	30.0	2.781	PASS





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TEST REPORT

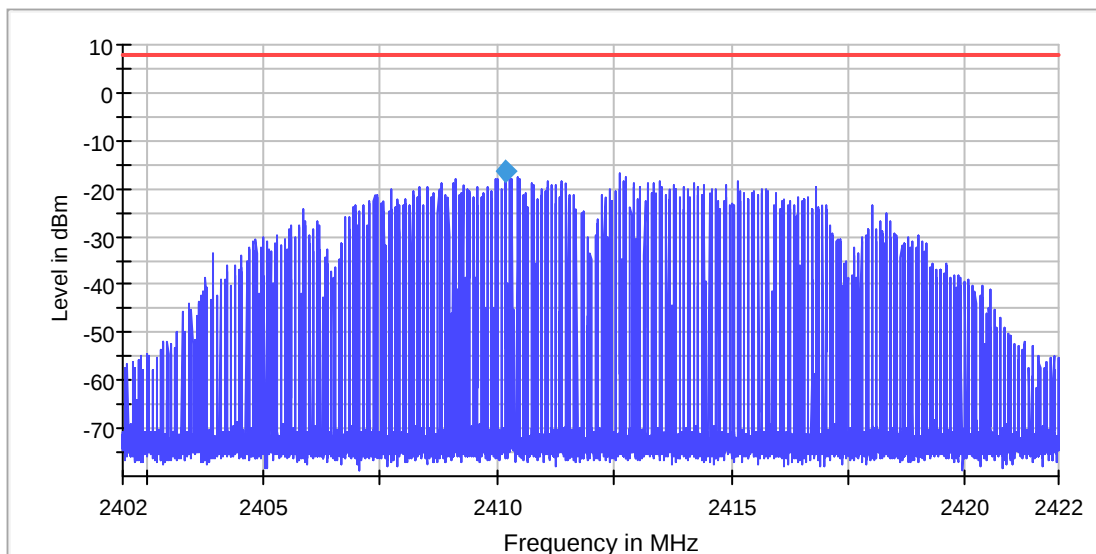
Report No. : AU0062274(0)

Date : 14 Nov 2016

Power Spectral Density (2412 MHz, 802.11n)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2410.169342	-16.500	8.0	PASS



Measurement

Setting	Instrument Value	Target Value	Setting	Instrument Value	Target Value
Start Frequency	2.40200 GHz	2.40200 GHz	Stablemode	Trace	Trace
Stop Frequency	2.42200 GHz	2.42200 GHz	Stablevalue	0.30	0.30
Span	20.000 MHz	20.000 MHz	Run	3 / max. 150	max. 150
RBW	3.000 kHz	<= 3.000 kHz	Stable	3 / 3	3
VBW	10.000 kHz	>= 9.000 kHz			
SweepPoints	13333	~ 13333			
SweepTime	13.400 s	13.333 s			
Reference Level	10.000 dBm	10.000 dBm			
Attenuation	30.000 dB	AUTO			
Detector	RMS	RMS			
SweepCount	1	1			
Filter	3 dB	3 dB			
Trace Mode	Max Hold	Max Hold			
SweepType	Sweep	AUTO			
Preamp	off	off			



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TEST REPORT

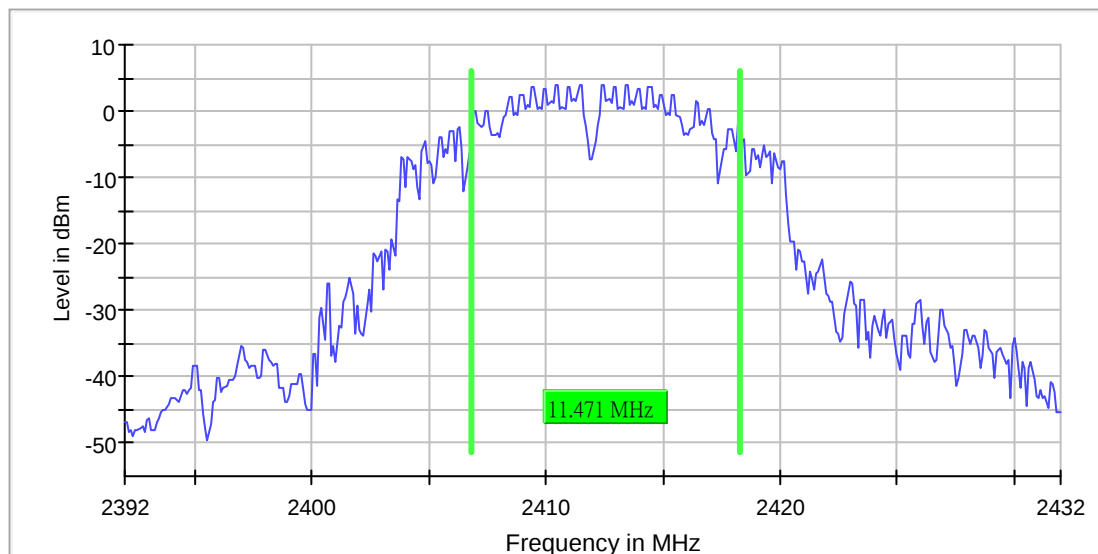
Report No. : AU0062274(0)

Date : 14 Nov 2016

Minimum Emission Bandwidth 6 dB (2412 MHz, 802.11n)

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2412.000000	11.471321	0.500000	---	2406.812968	2418.284289	4.0	PASS



Measurement

Setting	Instrument Value	Target Value	Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz	Stablemode	Trace	Trace
Stop Frequency	2.43200 GHz	2.43200 GHz	Stablevalue	0.30	0.30
Span	40.000 MHz	40.000 MHz	Run	50 / max. 150	max. 150
RBW	100.000 kHz	~ 100.000 kHz	Stable	15 / 15	15
VBW	300.000 kHz	~ 300.000 kHz			
SweepPoints	400	~ 400			
SweepTime	94.810 μ s	AUTO			
Reference Level	0.000 dBm	0.000 dBm			
Attenuation	20.000 dB	AUTO			
Detector	MaxPeak	MaxPeak			
SweepCount	100	100			
Filter	3 dB	3 dB			
Trace Mode	Max Hold	Max Hold			
Sweeptype	FFT	AUTO			
Preamp	off	off			

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Band Edge low (2412 MHz, 802.11n)

Result

DUT Frequency (MHz)	Result
2412.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
2410.168911	-4.6

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2398.225986	-44.8	20.1	-24.6	PASS
2398.026097	-44.8	20.2	-24.6	PASS
2398.176013	-46.9	22.3	-24.6	PASS
2398.076069	-47.3	22.6	-24.6	PASS
2398.525819	-47.6	22.9	-24.6	PASS
2398.475847	-48.3	23.7	-24.6	PASS
2398.625763	-48.8	24.2	-24.6	PASS
2396.227096	-49.0	24.3	-24.6	PASS
2395.927263	-49.8	25.1	-24.6	PASS
2395.977235	-50.2	25.5	-24.6	PASS
2396.277068	-50.7	26.1	-24.6	PASS
2398.925597	-51.1	26.4	-24.6	PASS
2395.777346	-51.7	27.0	-24.6	PASS
2393.978345	-52.2	27.5	-24.6	PASS
2398.575791	-52.6	28.0	-24.6	PASS



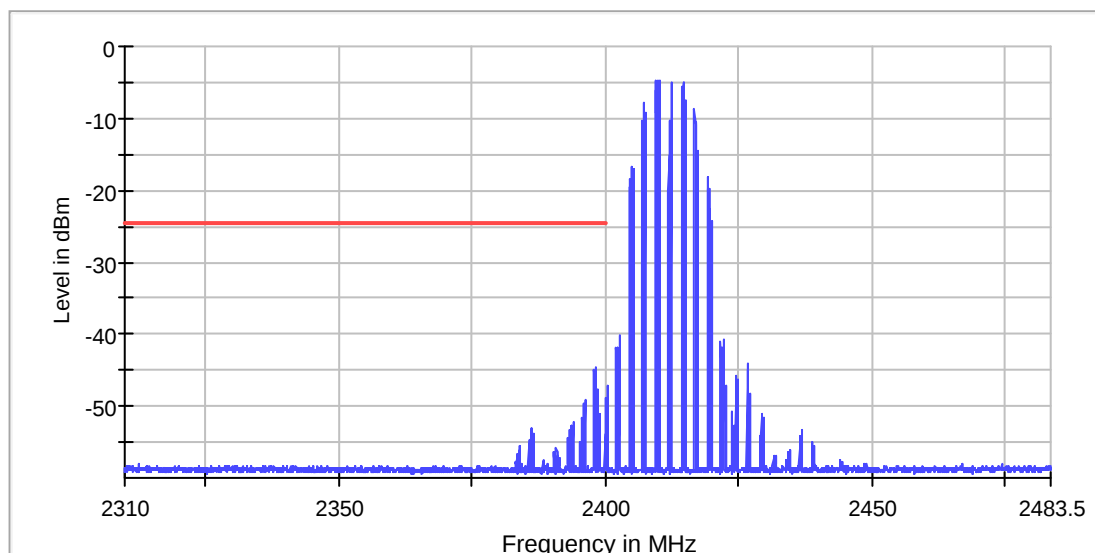
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Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
SweepTime	1.670 s	1.670 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1800	~ 1800
SweepTime	1.800 s	1.800 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3



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Tx Spurious Emission (2412 MHz, 802.11n)

Result

DUT Frequency (MHz)	Result
2412.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
2385.755087	-41.3	-62.9	-41.2	21.6	PASS
4812.992113	-47.1	-65.2	-41.2	24.0	PASS
4816.491726	-43.7	-63.8	-41.2	22.6	PASS
4823.990896	-30.9	-49.4	-41.2	8.2	PASS
4826.990563	-43.3	-62.3	-41.2	21.0	PASS
4831.990010	-44.6	-62.5	-41.2	21.2	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4823.990896	-30.9	-10.3	-41.2
4824.490840	-31.9	-9.4	-41.2
4823.490951	-32.6	-8.7	-41.2
4824.990785	-37.2	-4.0	-41.2
4822.991006	-40.1	-1.1	-41.2
2385.755087	-41.3	0.1	-41.2
2386.254909	-41.6	0.4	-41.2
2386.754730	-42.3	1.1	-41.2
2384.755444	-42.9	1.7	-41.2
4826.990563	-43.3	2.0	-41.2
4816.491726	-43.7	2.5	-41.2
2385.255266	-43.8	2.6	-41.2
4815.991781	-44.1	2.9	-41.2
2387.254552	-44.3	3.0	-41.2
2387.754373	-44.3	3.1	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	2400.000000	2	2
2400.000000	2483.500000	2	2
2483.500000	7000.000000	2	2
7000.000000	26000.000000	2	2

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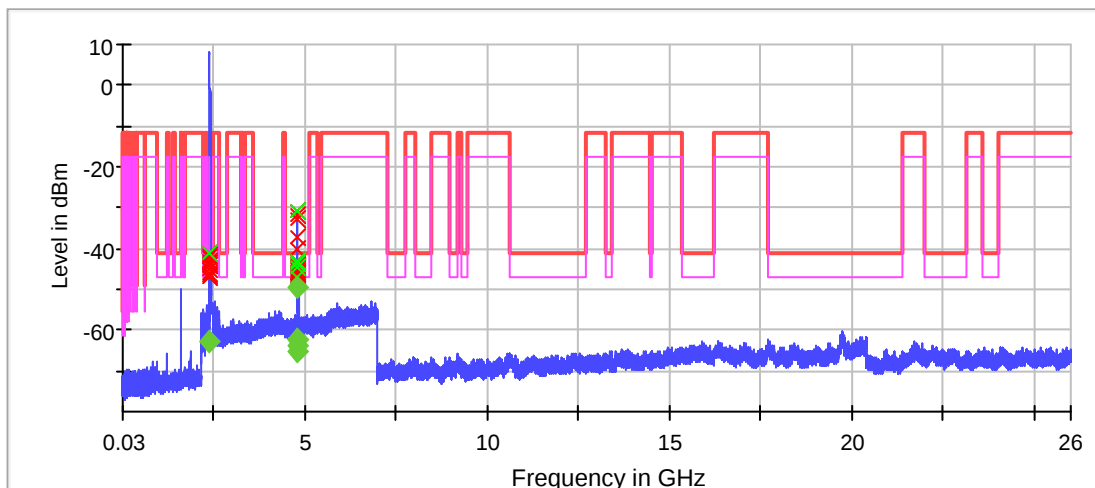
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× Limit [limit.Result:1] × Sum Level [trace.Result:1]
◆ Threshold [limit.2.Result:1] ◆ Critical [Over Limit.Result:1]

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 150	max. 150
Stable	3 / 3	3

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2800	~ 2800
SweepTime	2.800 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 150	max. 150
Stable	3 / 3	3



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Final Measurement 2

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	1.000 s	1.000 s
Reference Level	0.000 dBm	-10.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamplifier	off	off



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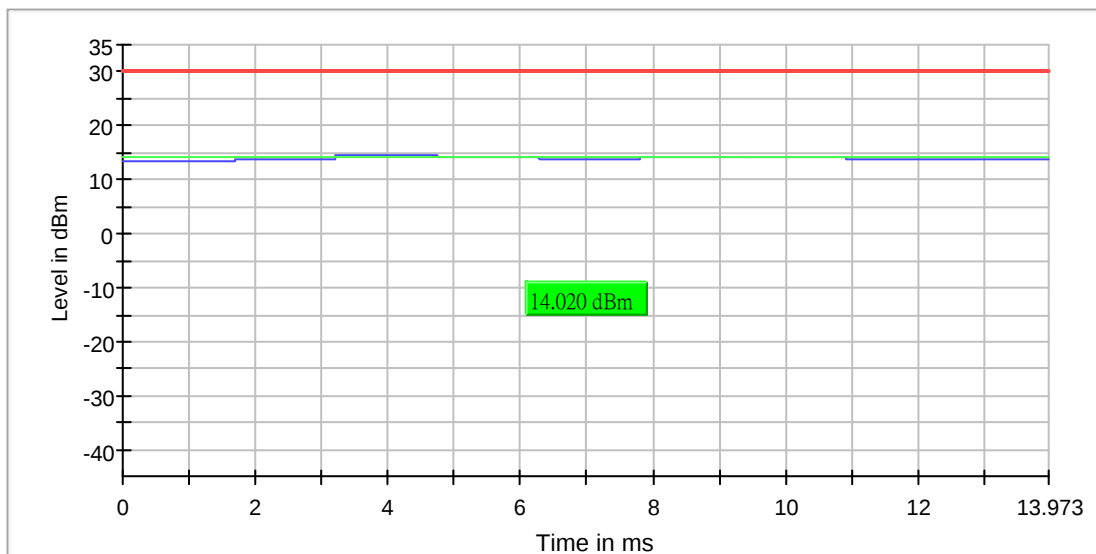
Report No. : AU0062274(0)

Date : 14 Nov 2016

RF output power (2437 MHz, 802.11n)

Result

DUT Frequency (MHz)	Gated EIRP (dBm)	Limit Max (dBm)	DutyCycle (%)	Result
2437.000000	14.0	30.0	1.516	PASS





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TEST REPORT

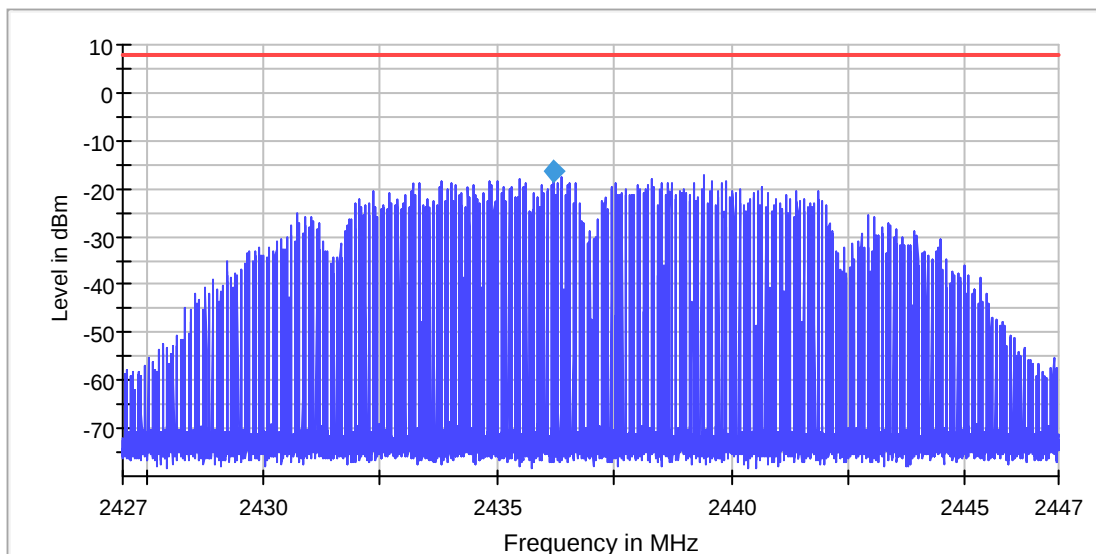
Report No. : AU0062274(0)

Date : 14 Nov 2016

Power Spectral Density (2437 MHz, 802.11n)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2436.211789	-16.367	8.0	PASS



Measurement

Setting	Instrument Value	Target Value		Setting	Instrument Value	Target Value
Start Frequency	2.42700 GHz	2.42700 GHz		Stablemode	Trace	Trace
Stop Frequency	2.44700 GHz	2.44700 GHz		Stablevalue	0.30	0.30
Span	20.000 MHz	20.000 MHz		Run	3 / max. 150	max. 150
RBW	3.000 kHz	<= 3.000 kHz		Stable	3 / 3	3
VBW	10.000 kHz	>= 9.000 kHz				
SweepPoints	13333	~ 13333				
SweepTime	13.400 s	13.333 s				
Reference Level	10.000 dBm	10.000 dBm				
Attenuation	30.000 dB	AUTO				
Detector	RMS	RMS				
SweepCount	1	1				
Filter	3 dB	3 dB				
Trace Mode	Max Hold	Max Hold				
Sweeptype	Sweep	AUTO				
Preamp	off	off				

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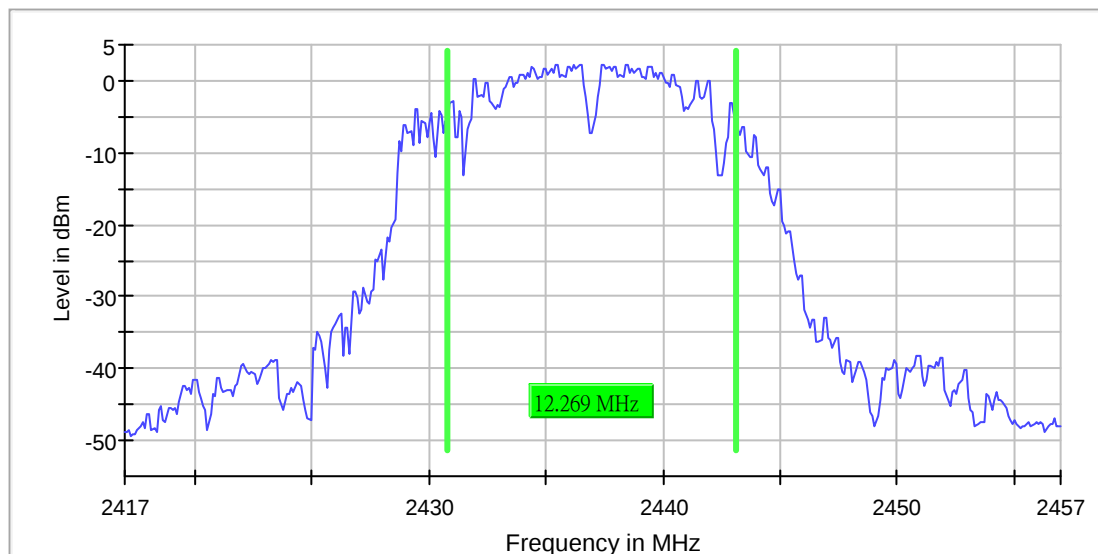
Report No. : AU0062274(0)

Date : 14 Nov 2016

Minimum Emission Bandwidth 6 dB (2437 MHz, 802.11n)

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2437.000000	12.269327	0.500000	---	2430.815461	2443.084788	2.3	PASS



Measurement

Setting	Instrument Value	Target Value	Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz	Stablemode	Trace	Trace
Stop Frequency	2.45700 GHz	2.45700 GHz	Stablevalue	0.30	0.30
Span	40.000 MHz	40.000 MHz	Run	100 / max. 150	max. 150
RBW	100.000 kHz	~ 100.000 kHz	Stable	15 / 15	15
VBW	300.000 kHz	~ 300.000 kHz			
SweepPoints	400	~ 400			
SweepTime	94.810 μ s	AUTO			
Reference Level	10.000 dBm	10.000 dBm			
Attenuation	30.000 dB	AUTO			
Detector	MaxPeak	MaxPeak			
SweepCount	100	100			
Filter	3 dB	3 dB			
Trace Mode	Max Hold	Max Hold			
Sweeptype	FFT	AUTO			
Preamp	off	off			

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Report No. : AU0062274(0)

Date : 14 Nov 2016

Tx Spurious Emission (2437 MHz, 802.11n)

Result

DUT Frequency (MHz)	Result
2437.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
4865.986246	-45.4	-63.1	-41.2	21.9	PASS
4873.985361	-31.8	-49.9	-41.2	8.7	PASS
4876.985029	-45.2	-62.6	-41.2	21.4	PASS
4881.984475	-45.3	-62.9	-41.2	21.7	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4873.985361	-31.8	-9.4	-41.2
4874.485306	-32.4	-8.8	-41.2
4873.485416	-33.5	-7.7	-41.2
4874.985250	-37.6	-3.6	-41.2
4872.985472	-40.6	-0.6	-41.2
4870.985693	-44.9	3.7	-41.2
4870.485748	-45.2	4.0	-41.2
4876.985029	-45.2	4.0	-41.2
4881.984475	-45.3	4.0	-41.2
4865.986246	-45.4	4.2	-41.2
4877.484973	-45.5	4.2	-41.2
4866.486191	-45.6	4.4	-41.2
4881.484531	-45.8	4.6	-41.2
4866.986136	-46.1	4.8	-41.2
4875.485195	-46.7	5.4	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	2400.000000	2	2
2400.000000	2483.500000	2	2
2483.500000	7000.000000	2	2
7000.000000	26000.000000	2	2

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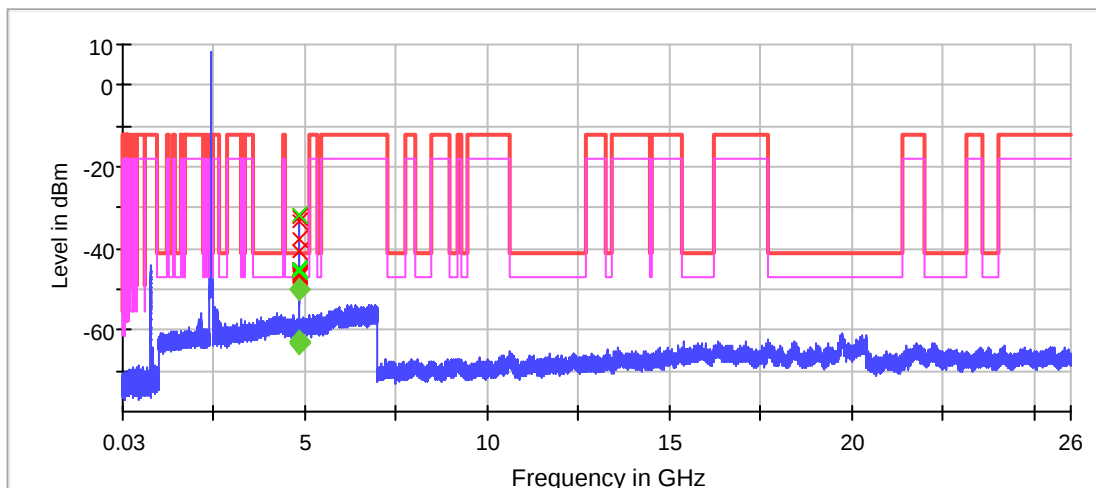
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× Limit [limit.Result:1] × Sum Level [trace.Result:1]
◆ Threshold [limit.2.Result:1] ◆ Critical [Over Limit.Result:1]

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 150	max. 150
Stable	3 / 3	3

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2800	~ 2800
SweepTime	2.800 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 150	max. 150
Stable	3 / 3	3



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Final Measurement 2

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	1.000 s	1.000 s
Reference Level	0.000 dBm	-10.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamplifier	off	off

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TEST REPORT

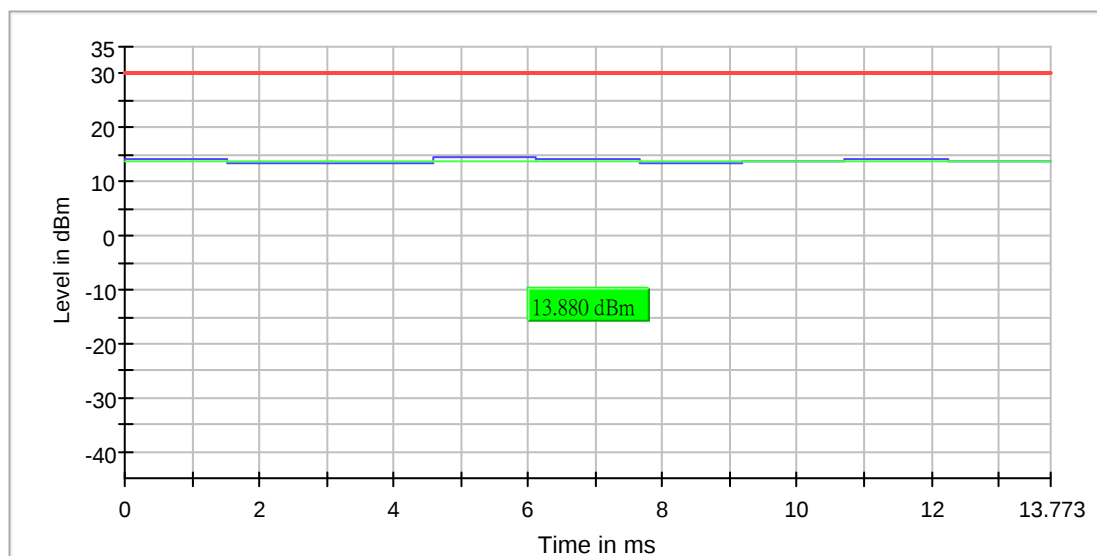
Report No. : AU0062274(0)

Date : 14 Nov 2016

RF output power (2462 MHz, 802.11n)

Result

DUT Frequency (MHz)	Gated EIRP (dBm)	Limit Max (dBm)	DutyCycle (%)	Result
2462.000000	13.9	30.0	1.494	PASS





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TEST REPORT

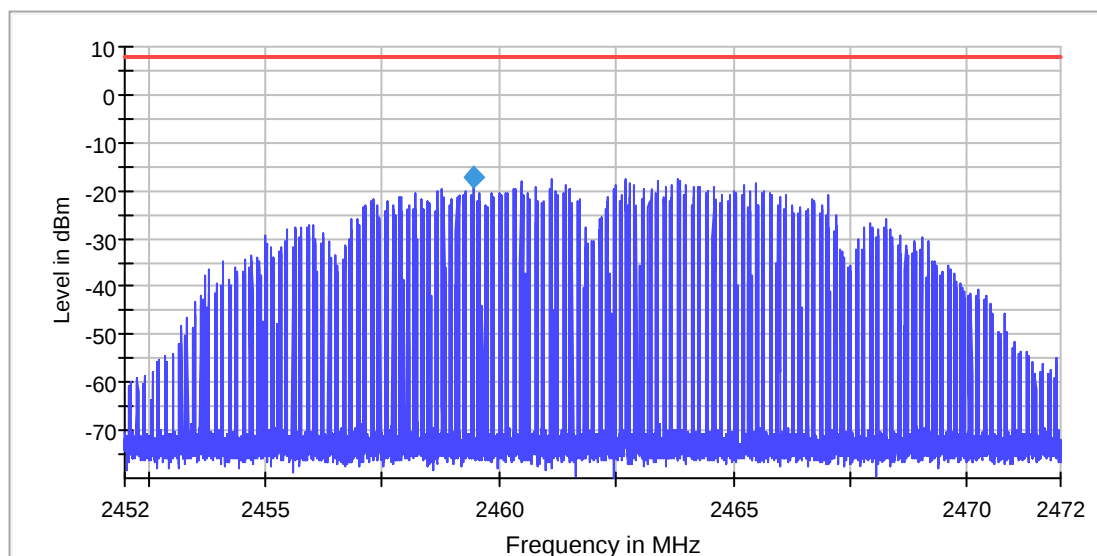
Report No. : AU0062274(0)

Date : 14 Nov 2016

Power Spectral Density (2462 MHz, 802.11n)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2462.000000	2459.437378	-17.123	8.0	PASS



Measurement

Setting	Instrument Value	Target Value	Setting	Instrument Value	Target Value
Start Frequency	2.45200 GHz	2.45200 GHz	Stablemode	Trace	Trace
Stop Frequency	2.47200 GHz	2.47200 GHz	Stablevalue	0.30	0.30
Span	20.000 MHz	20.000 MHz	Run	3 / max. 150	max. 150
RBW	3.000 kHz	<= 3.000 kHz	Stable	3 / 3	3
VBW	10.000 kHz	>= 9.000 kHz			
SweepPoints	13333	~ 13333			
SweepTime	13.400 s	13.333 s			
Reference Level	10.000 dBm	10.000 dBm			
Attenuation	30.000 dB	AUTO			
Detector	RMS	RMS			
SweepCount	1	1			
Filter	3 dB	3 dB			
Trace Mode	Max Hold	Max Hold			
Sweeptype	Sweep	AUTO			
Preamplifier	off	off			

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TEST REPORT

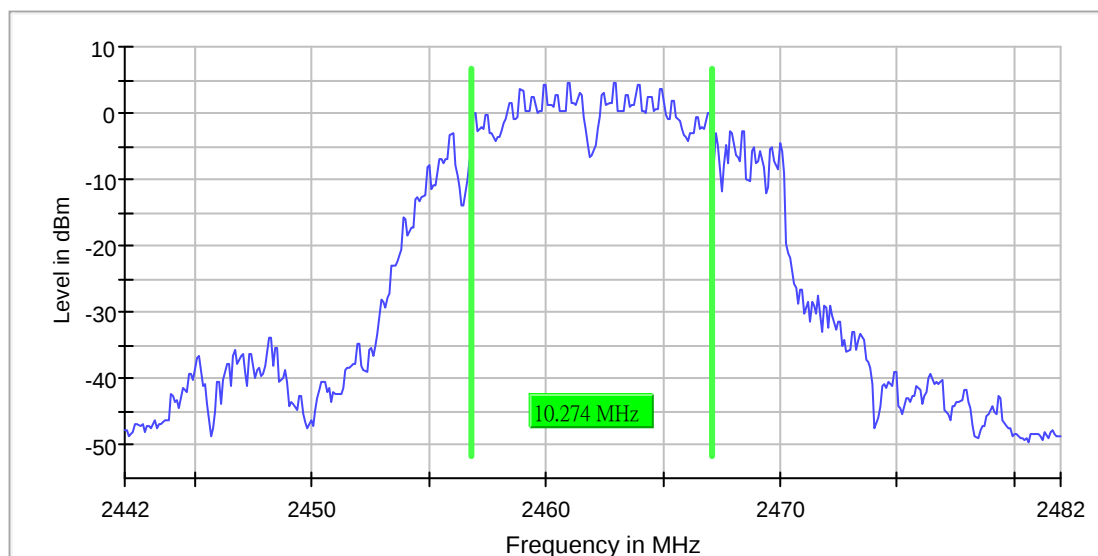
Report No. : AU0062274(0)

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Minimum Emission Bandwidth 6 dB (2462 MHz, 802.11n)

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2462.000000	10.274314	0.500000	---	2456.812968	2467.087282	4.6	PASS



Measurement

Setting	Instrument Value	Target Value	Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz	Stablemode	Trace	Trace
Stop Frequency	2.48200 GHz	2.48200 GHz	Stablevalue	0.30	0.30
Span	40.000 MHz	40.000 MHz	Run	106 / max. 150	max. 150
RBW	100.000 kHz	~ 100.000 kHz	Stable	15 / 15	15
VBW	300.000 kHz	~ 300.000 kHz			
SweepPoints	400	~ 400			
SweepTime	94.810 μ s	AUTO			
Reference Level	10.000 dBm	10.000 dBm			
Attenuation	30.000 dB	AUTO			
Detector	MaxPeak	MaxPeak			
SweepCount	100	100			
Filter	3 dB	3 dB			
Trace Mode	Max Hold	Max Hold			
Sweeptype	FFT	AUTO			
Preamp	off	off			

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Band Edge high (2462 MHz, 802.11n)

Result

DUT Frequency (MHz)	Result
2462.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
2461.338270	-4.3

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2486.715257	-54.0	29.7	-24.3	PASS
2488.659366	-55.2	31.0	-24.3	PASS
2487.163897	-55.3	31.0	-24.3	PASS
2488.210725	-55.5	31.2	-24.3	PASS
2488.160876	-55.6	31.3	-24.3	PASS
2487.114048	-55.6	31.3	-24.3	PASS
2486.665408	-56.0	31.7	-24.3	PASS
2486.117069	-56.3	32.0	-24.3	PASS
2486.216767	-56.4	32.2	-24.3	PASS
2489.058157	-56.5	32.3	-24.3	PASS
2490.104985	-56.7	32.4	-24.3	PASS
2489.108006	-56.7	32.5	-24.3	PASS
2484.222810	-56.8	32.5	-24.3	PASS
2484.820997	-56.9	32.6	-24.3	PASS
2483.774169	-56.9	32.6	-24.3	PASS



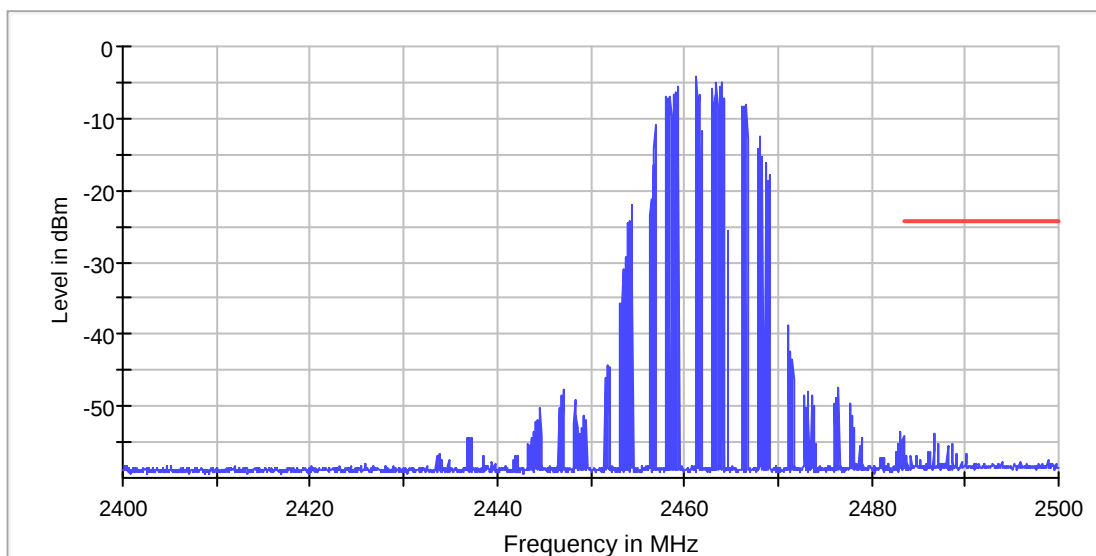
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Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
SweepTime	1.670 s	1.670 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	330	~ 330
SweepTime	330.000 ms	330.000 ms
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3



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Tx Spurious Emission (2462 MHz, 802.11n)

Result

DUT Frequency (MHz)	Result
2462.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
2487.249585	-42.5	-63.1	-41.2	21.9	PASS
4923.979826	-34.1	-52.4	-41.2	11.1	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4923.979826	-34.1	-7.2	-41.2
4924.479771	-35.4	-5.9	-41.2
4923.479882	-36.0	-5.2	-41.2
4924.979716	-40.9	-0.3	-41.2
2487.249585	-42.5	1.2	-41.2
2488.249474	-42.7	1.4	-41.2
2487.749530	-42.8	1.6	-41.2
4922.979937	-43.5	2.3	-41.2
2483.749972	-44.1	2.9	-41.2
2486.749640	-44.6	3.4	-41.2
2488.749419	-45.0	3.8	-41.2
2484.749862	-45.2	4.0	-41.2
2484.249917	-45.3	4.0	-41.2
2486.249696	-45.8	4.5	-41.2
2485.749751	-46.2	5.0	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	2400.000000	2	2
2400.000000	2483.500000	2	2
2483.500000	7000.000000	2	2
7000.000000	26000.000000	2	2



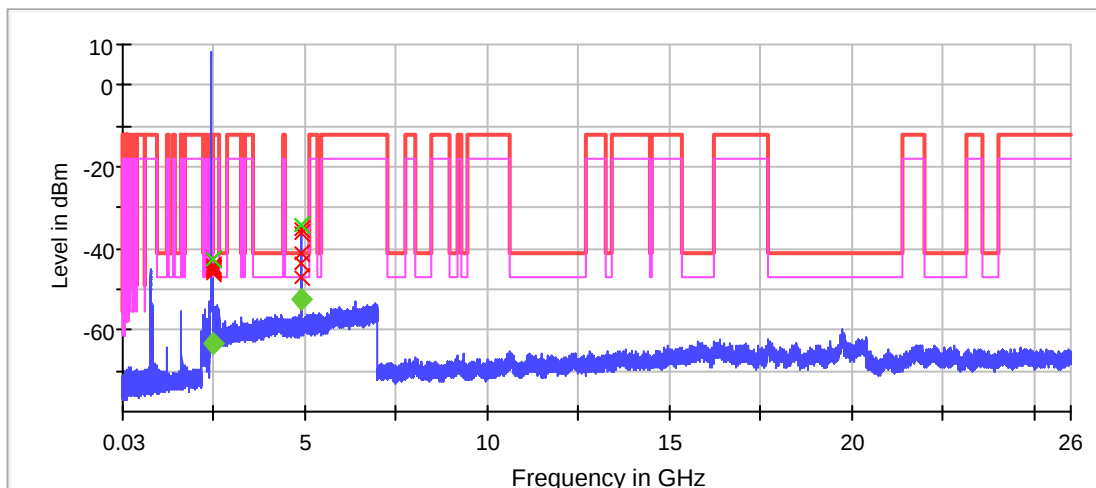
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× Limit [limit.Result:1] × Sum Level [trace.Result:1]
◆ Threshold [limit.2.Result:1] ◆ Critical [Over Limit.Result:1]

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 150	max. 150
Stable	3 / 3	3

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2800	~ 2800
SweepTime	2.800 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 150	max. 150
Stable	3 / 3	3



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Final Measurement 2

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	1.000 s	1.000 s
Reference Level	0.000 dBm	-10.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamplifier	off	off



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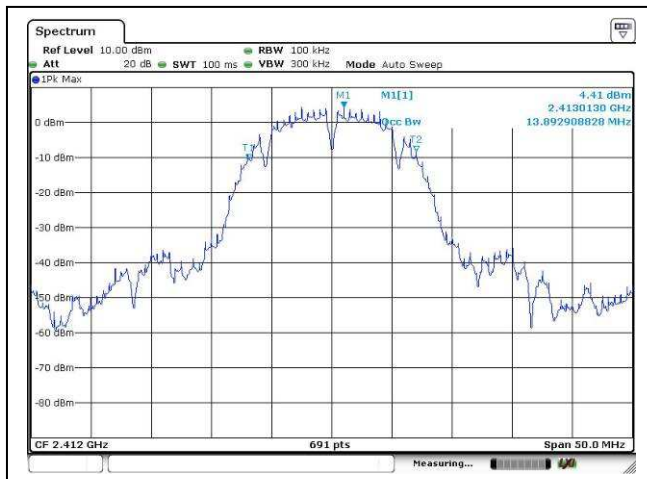
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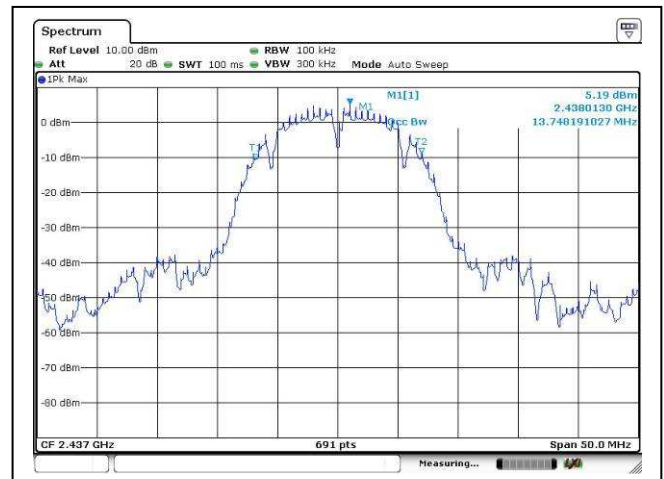
Report No. : AU0062274(0)

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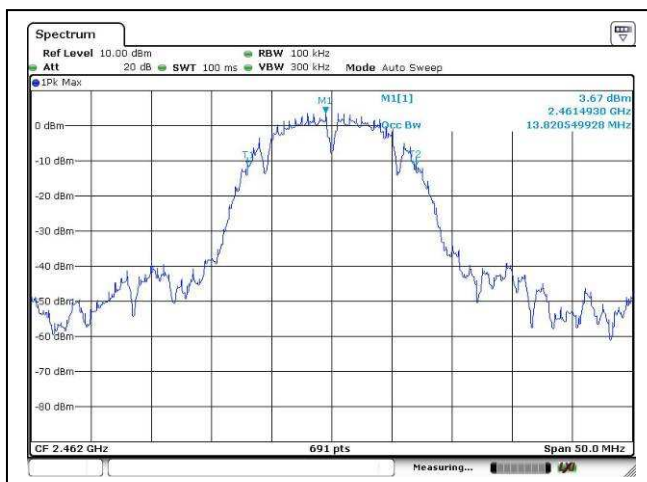
Minimum Emission Bandwidth 99%



802.11b Lower channel



802.11b Middle channel



802.11b Higher channel

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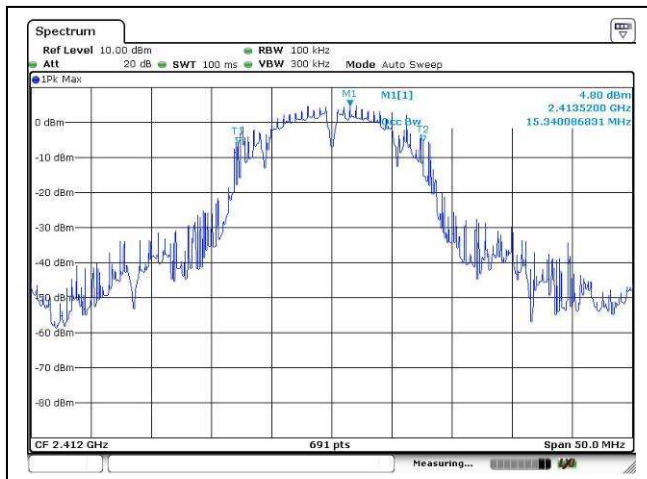
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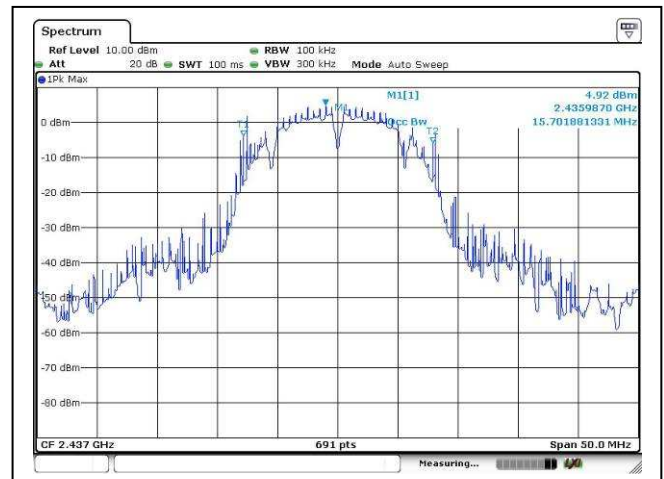
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Date : 14 Nov 2016

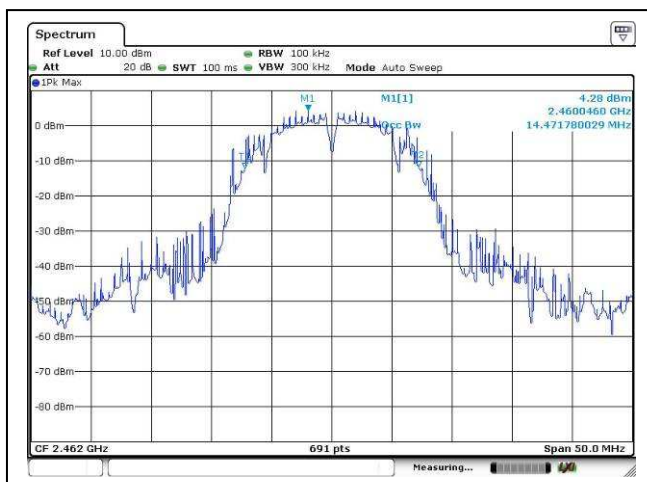
Minimum Emission Bandwidth 99%



802.11g Lower channel



802.11g Middle channel



802.11g Higher channel



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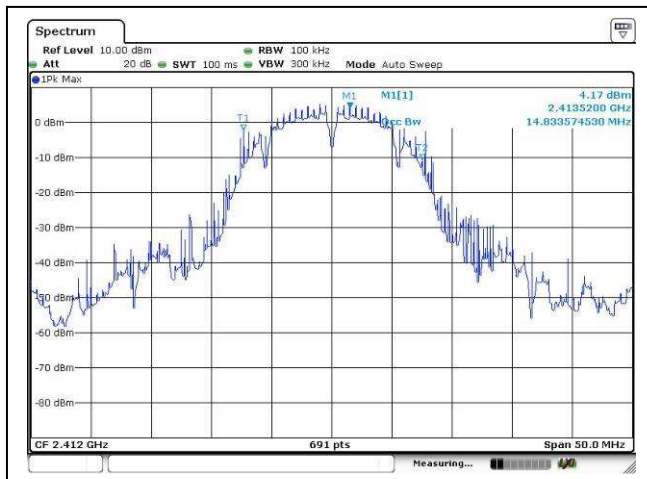
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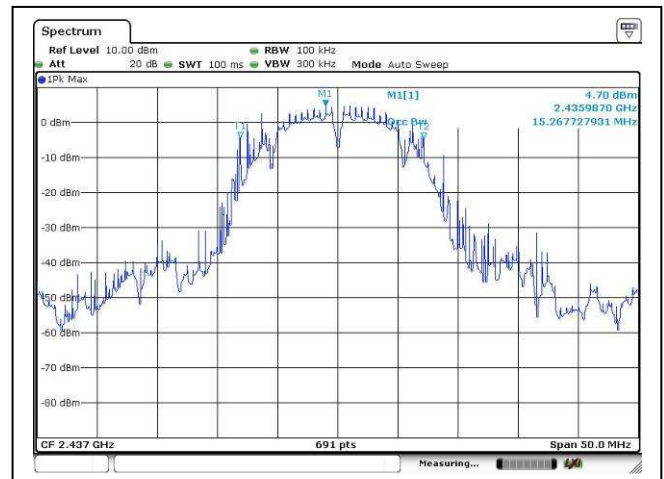
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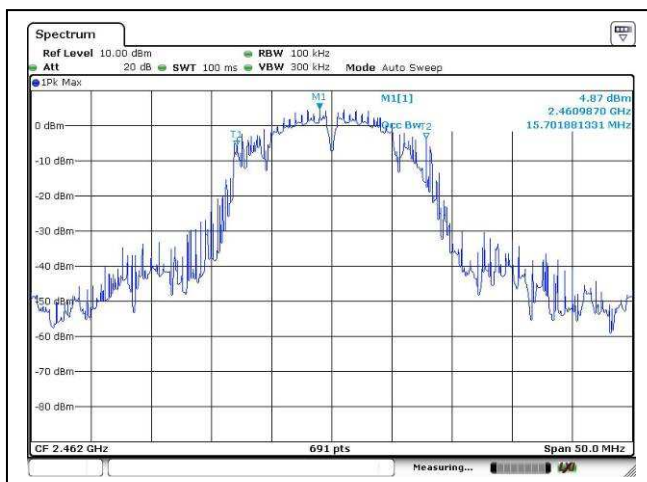
Minimum Emission Bandwidth 99%



802.11n Lower channel



802.11n Middle channel



802.11n Higher channel



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TEST REPORT

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2.3 Radiated Emission Measurement Data

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	27	°C
Relative humidity:	60	%

Testing frequency range: 9kHz to 26GHz Mode: Transmission, 802.11b

Measurement: Quasi-peak (9kHz – 1GHz), Peak and Average(above 1GHz)

RBW: 9kHz (below 30MHz), 120kHz (30MHz – 1GHz), 1MHz (above 1GHz)

VBW: 30kHz (below 30MHz), 300kHz (30MHz – 1GHz), 3MHz (above 1GHz, Peak measurement), 10Hz (above 1GHz, Average measurement)

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)	Measurement (Peak/Average)
2410.425	H	94.9	- 4.2	90.7	114.0	- 23.3	Peak
2410.561	V	96.8	- 4.2	92.6	114.0	- 21.4	Peak
2435.525	H	91.9	- 4.2	87.7	114.0	- 26.3	Peak
2435.545	V	94.2	- 4.2	90.0	114.0	- 24.0	Peak
2463.451	H	92.8	- 4.3	88.5	114.0	- 25.5	Peak
2463.338	V	95.3	- 4.3	91.0	114.0	- 23.0	Peak
4823.959	H	56.1	3.7	59.8	74.0	- 14.2	Peak
4823.865	H	25.1	3.7	28.8	54.0	- 25.2	Average
4823.955	V	54.3	3.7	58.0	74.0	- 16.0	Peak
4823.981	V	25.1	3.7	28.8	54.0	- 25.2	Average
4874.005	H	56.6	3.7	60.3	74.0	- 13.7	Peak
4873.975	H	26.6	3.7	30.3	54.0	- 23.7	Average
4874.029	V	56.8	3.7	60.5	74.0	- 13.5	Peak
4873.853	V	26.5	3.7	30.2	54.0	- 23.8	Average
4923.949	H	58.5	4.0	62.5	74.0	- 11.5	Peak
4923.999	H	25.6	4.0	29.6	54.0	- 24.4	Average
4924.003	V	56.7	4.0	60.7	74.0	- 13.3	Peak
4923.945	V	25.5	4.0	29.5	54.0	- 24.5	Average

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

If Peak measurement values are lower than average limit, average measurement is not necessary.

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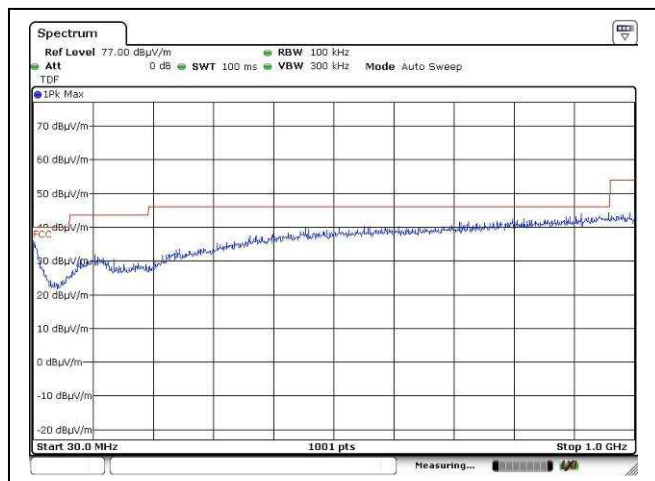
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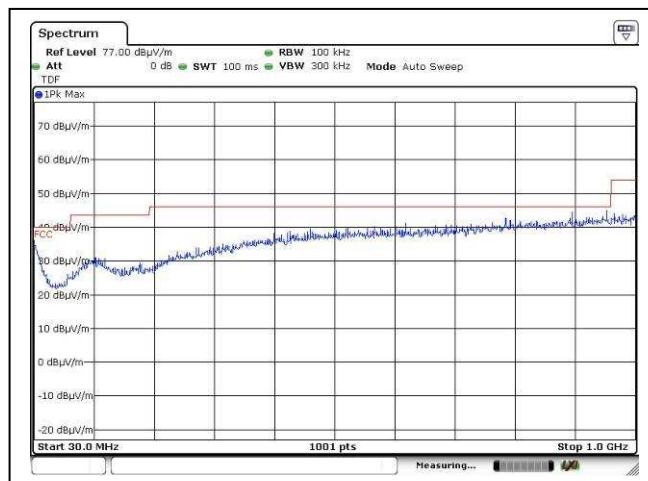
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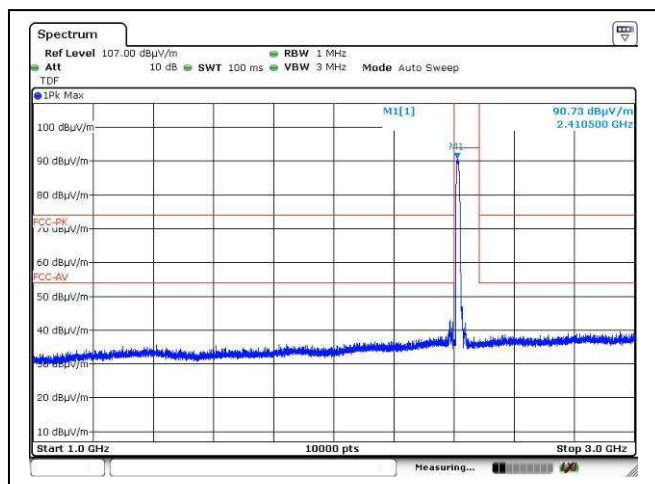
2.3 Radiated Emission Measurement Data (Con't)



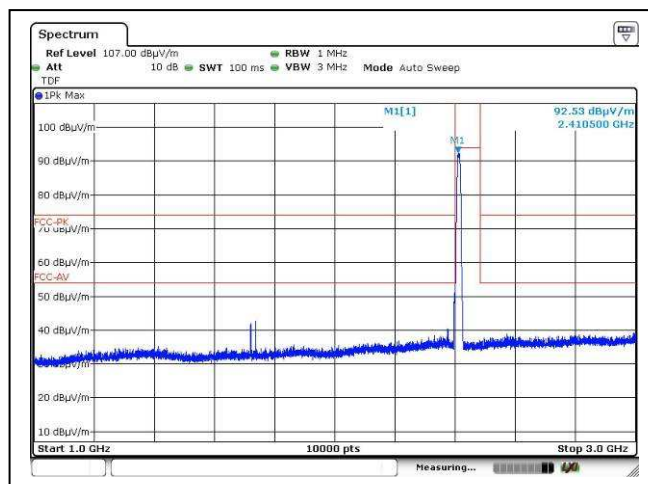
Lower channel, 30MHz – 1GHz, Horizontal



Lower channel, 30MHz – 1GHz, Vertical



Lower channel, 1GHz – 3GHz, Horizontal



Lower channel, 1GHz – 3GHz, Vertical



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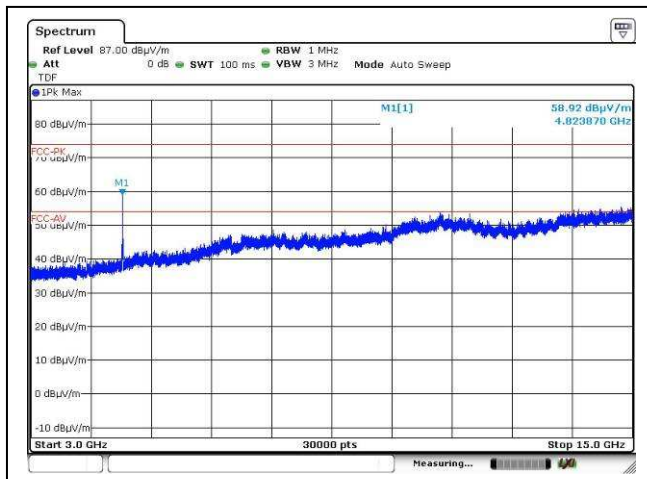
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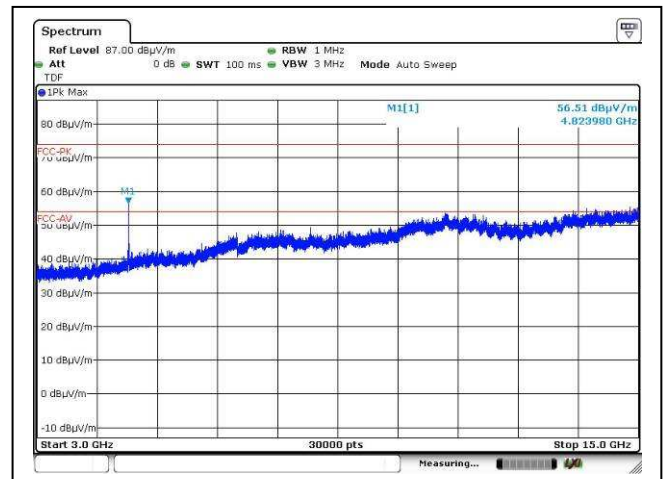
Report No. : AU0062274(0)

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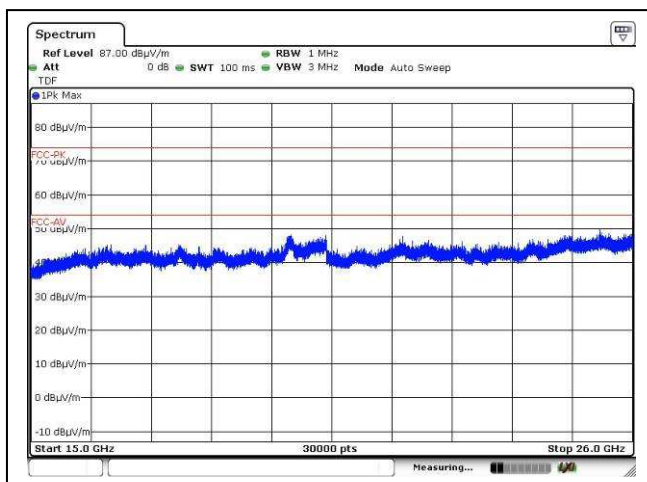
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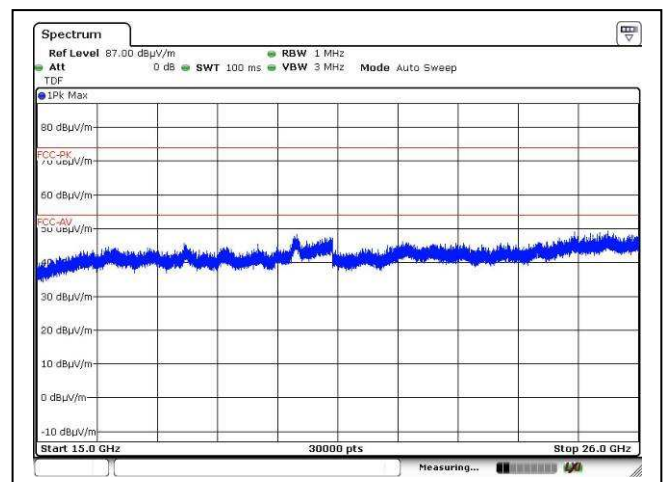
Lower channel, 3GHz – 15GHz, Horizontal



Lower channel, 3GHz – 15GHz, Vertical



Lower channel, 15GHz – 26GHz, Horizontal



Lower channel, 15GHz – 26GHz, Vertical



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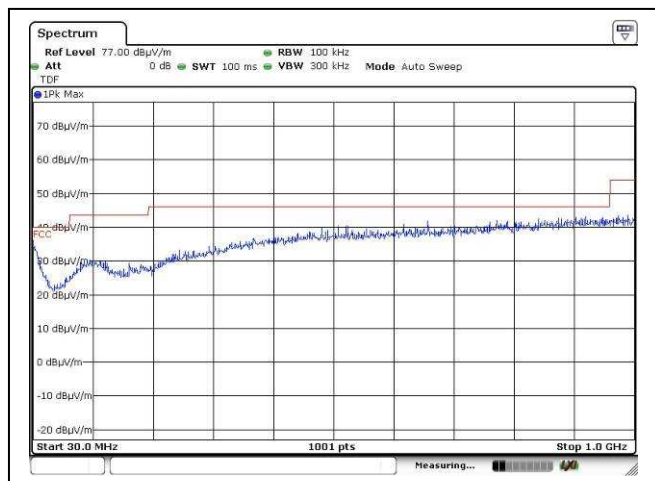
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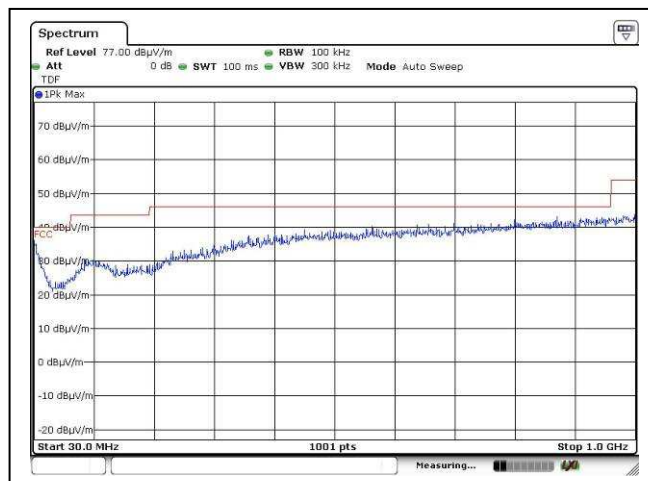
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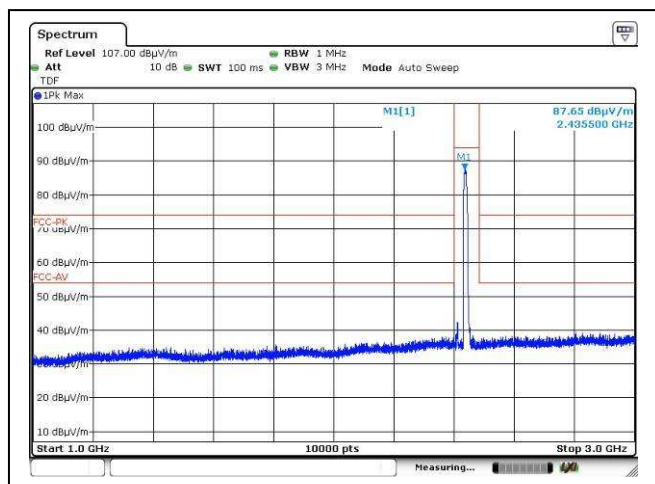
2.3 Radiated Emission Measurement Data (Con't)



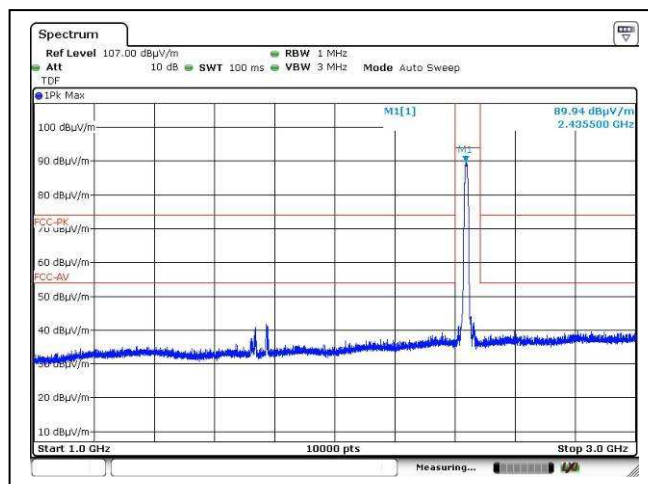
Middle channel, 30MHz – 1GHz, Horizontal



Middle channel, 30MHz – 1GHz, Vertical



Middle channel, 1GHz – 3GHz, Horizontal



Middle channel, 1GHz – 3GHz, Vertical



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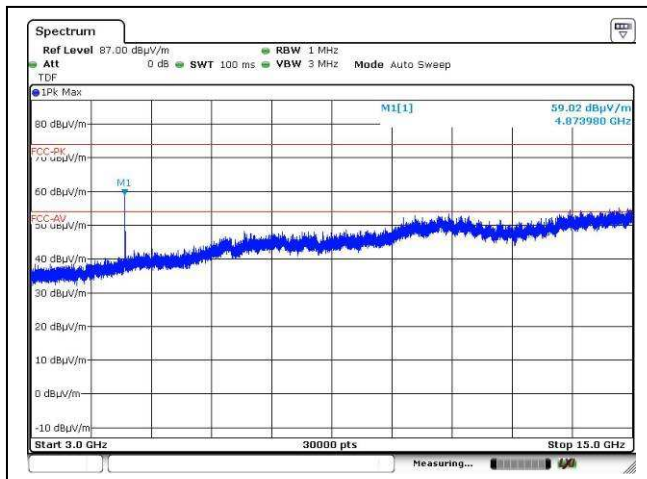
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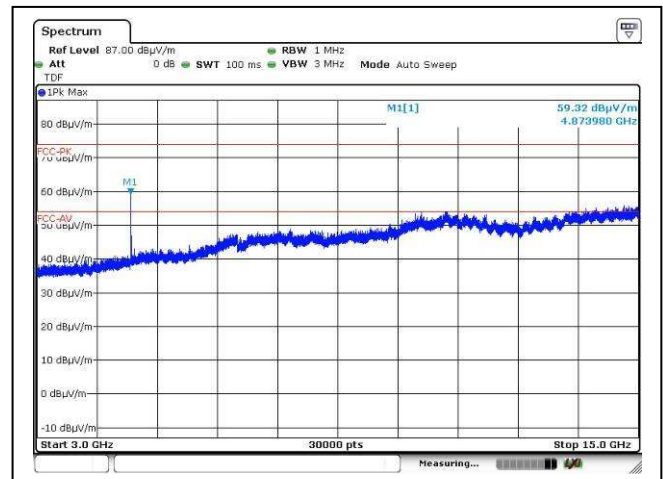
Report No. : AU0062274(0)

Date : 14 Nov 2016

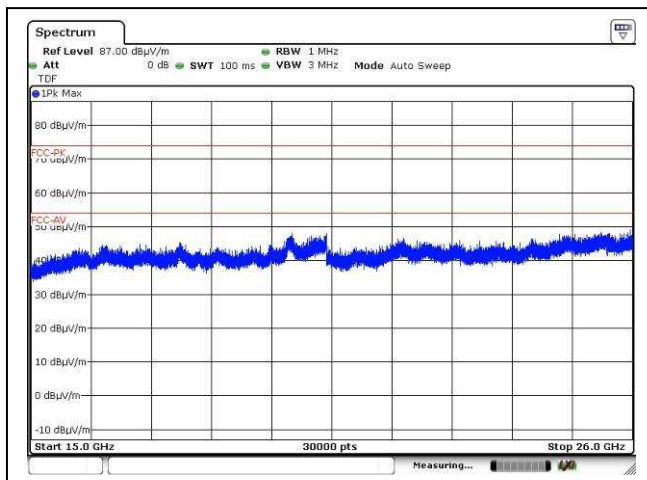
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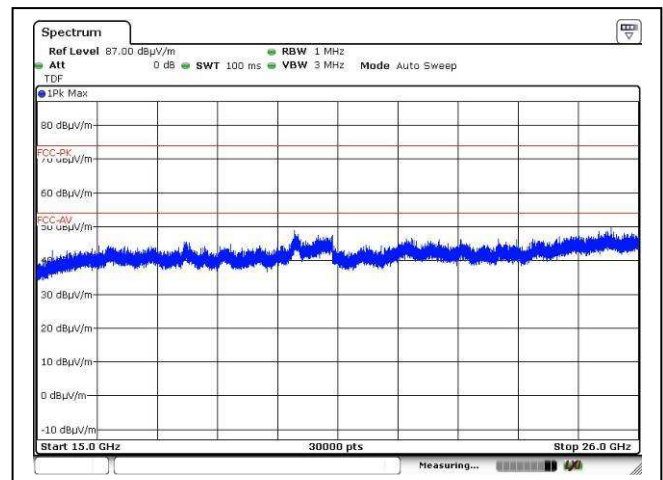
Middle channel, 3GHz – 15GHz, Horizontal



Middle channel, 3GHz – 15GHz, Vertical



Middle channel, 15GHz – 26GHz, Horizontal



Middle channel, 15GHz – 26GHz, Vertical



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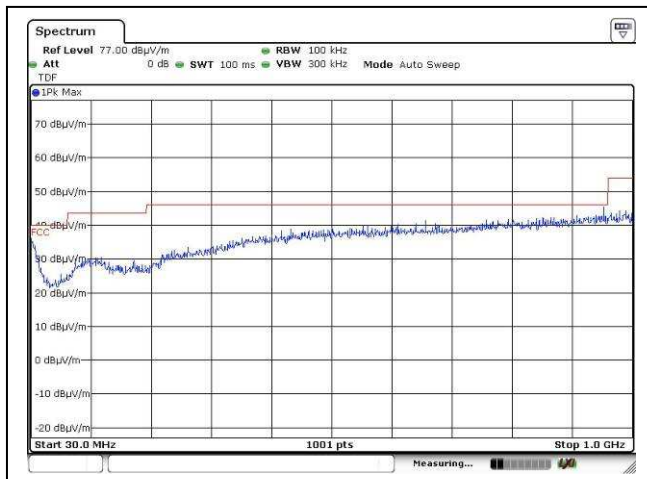
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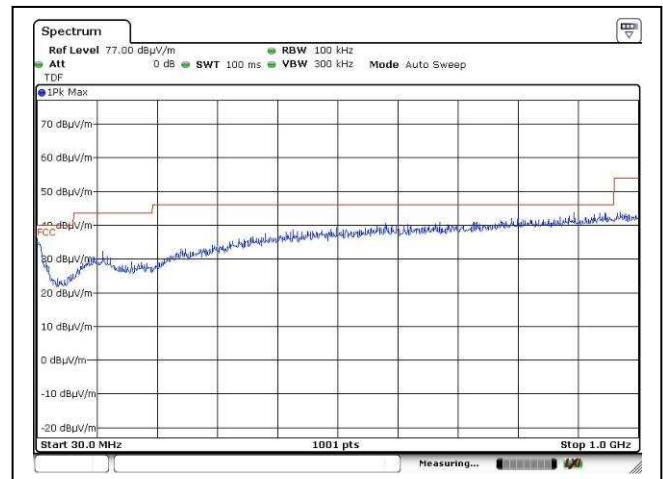
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Date : 14 Nov 2016

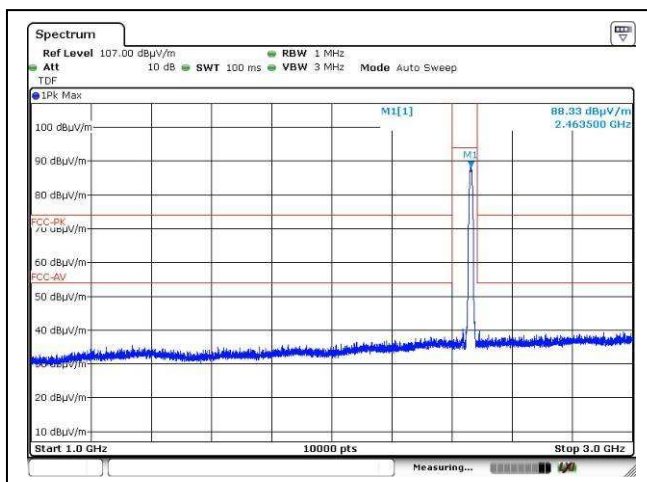
2.3 Radiated Emission Measurement Data (Con't)



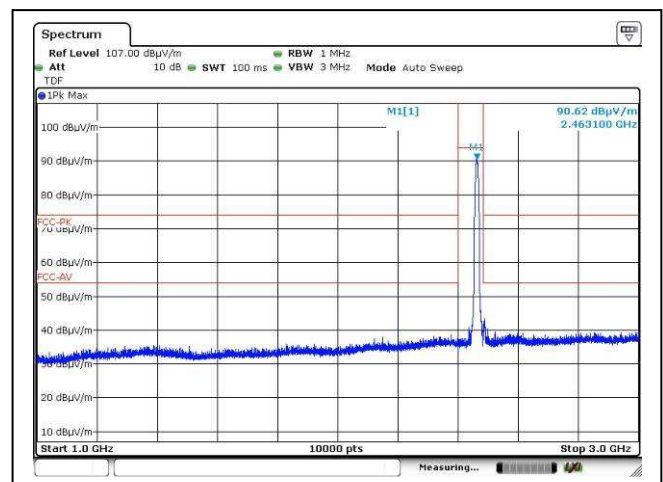
Higher channel, 30MHz – 1GHz, Horizontal



Higher channel, 30MHz – 1GHz, Vertical



Higher channel, 1GHz – 3GHz, Horizontal



Higher channel, 1GHz – 3GHz, Vertical



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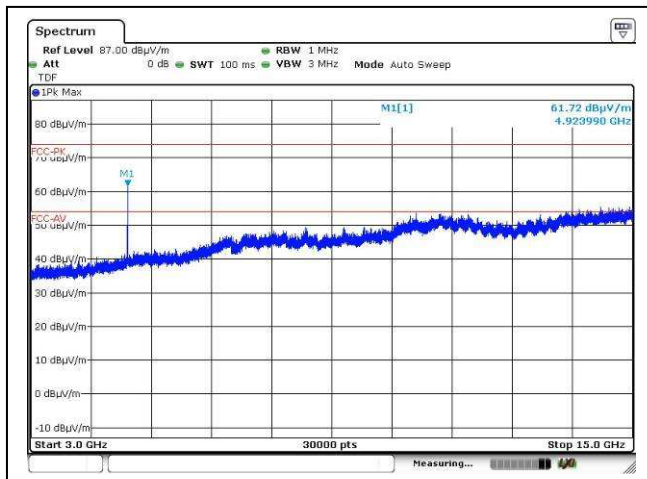
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TEST REPORT

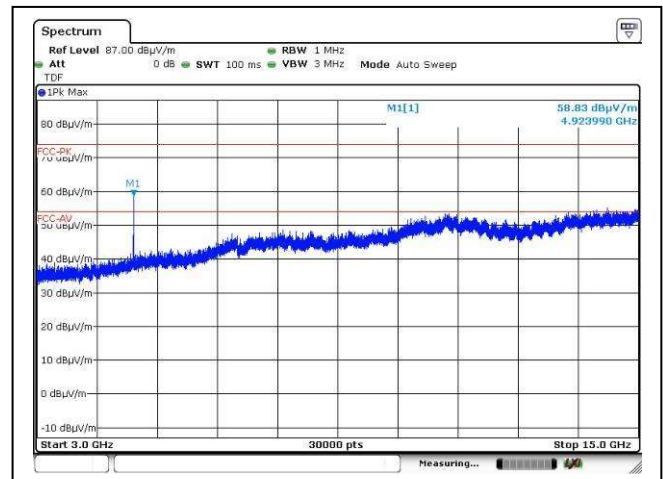
Report No. : AU0062274(0)

Date : 14 Nov 2016

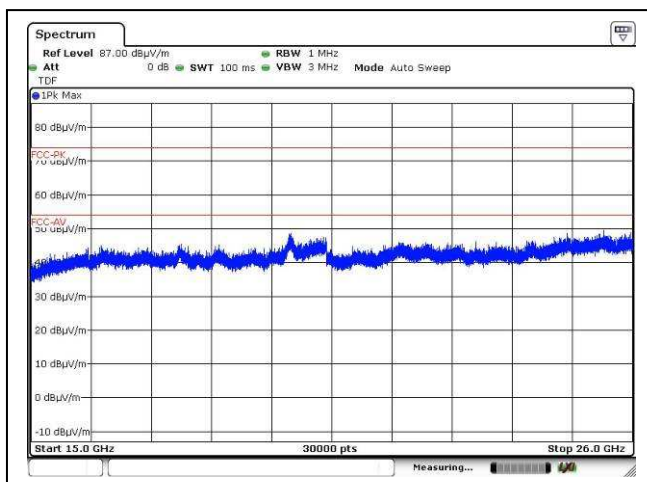
2.3 Radiated Emission Measurement Data (Con't)



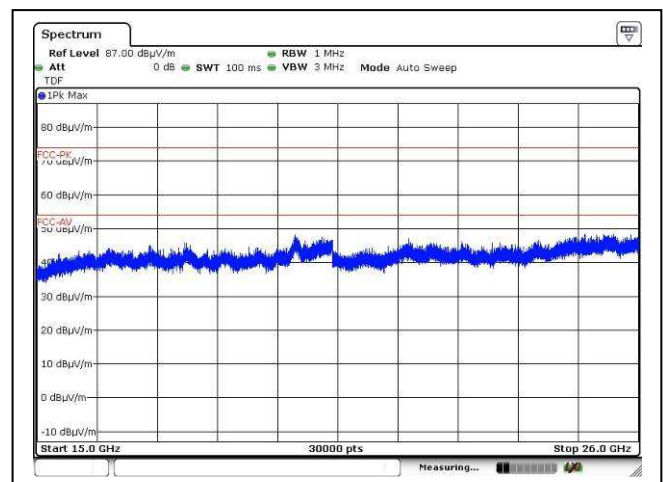
Higher channel, 3GHz – 15GHz, Horizontal



Higher channel, 3GHz – 15GHz, Vertical



Higher channel, 15GHz – 26GHz, Horizontal



Higher channel, 15GHz – 26GHz, Vertical



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TEST REPORT

Report No. : AU0062274(0)

Date : 14 Nov 2016

2.3 Radiated Emission Measurement Data (Con't)

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	27	°C
Relative humidity:	60	%

Testing frequency range: 9kHz to 26GHz Mode: Transmission, 802.11g

Measurement: Quasi-peak (9kHz – 1GHz), Peak and Average(above 1GHz)

RBW: 9kHz (below 30MHz), 120kHz (30MHz – 1GHz), 1MHz (above 1GHz)

VBW: 30kHz (below 30MHz), 300kHz (30MHz – 1GHz), 3MHz (above 1GHz, Peak measurement), 10Hz (above 1GHz, Average measurement)

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)	Measurement (Peak/Average)
2410.520	H	94.9	- 4.2	90.7	114.0	- 23.3	Peak
2410.609	V	96.7	- 4.2	92.5	114.0	- 21.5	Peak
2435.493	H	92.0	- 4.2	87.8	114.0	- 26.2	Peak
2435.581	V	94.2	- 4.2	90.0	114.0	- 24.0	Peak
2463.509	H	92.8	- 4.3	88.5	114.0	- 25.5	Peak
2463.409	V	95.3	- 4.3	91.0	114.0	- 23.0	Peak
4824.081	H	56.1	3.7	59.8	74.0	- 14.2	Peak
4823.897	H	25.4	3.7	29.1	54.0	- 24.9	Average
4823.981	V	54.6	3.7	58.3	74.0	- 15.7	Peak
4824.045	V	25.3	3.7	29.0	54.0	- 25.0	Average
4873.945	H	56.8	3.7	60.5	74.0	- 13.5	Peak
4873.777	H	25.9	3.7	29.6	54.0	- 24.4	Average
4873.965	V	56.8	3.7	60.5	74.0	- 13.5	Peak
4879.895	V	25.8	3.7	29.5	54.0	- 24.5	Average
4924.009	H	58.6	4.0	62.6	74.0	- 11.4	Peak
4923.909	H	25.9	4.0	29.9	54.0	- 24.1	Average
4923.999	V	57.0	4.0	61.0	74.0	- 13.0	Peak
4923.879	V	25.7	4.0	29.7	54.0	- 24.3	Average

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

If Peak measurement values are lower than average limit, average measurement is not necessary.

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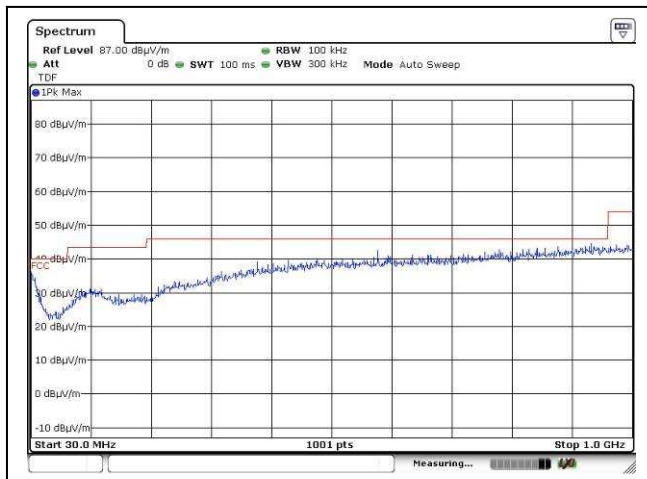
廠商會檢定中心

TEST REPORT

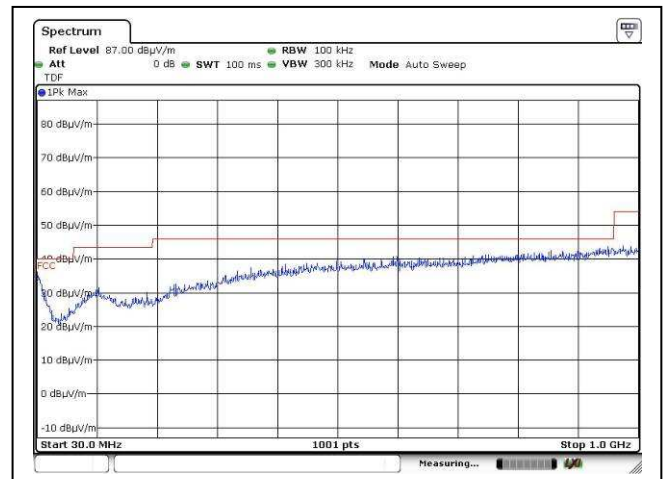
Report No. : AU0062274(0)

Date : 14 Nov 2016

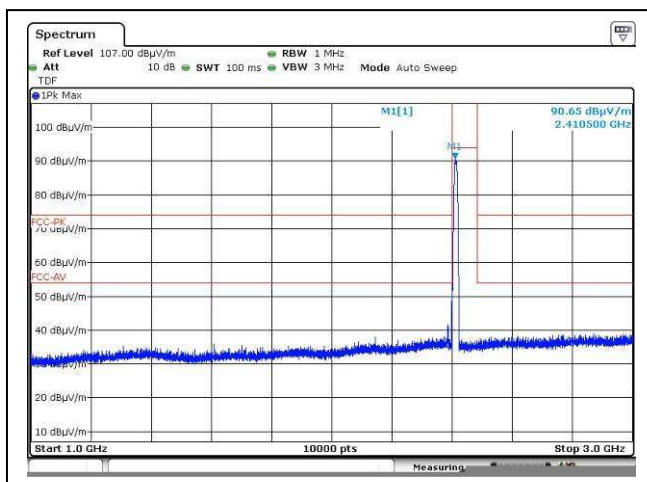
2.3 Radiated Emission Measurement Data (Con't)



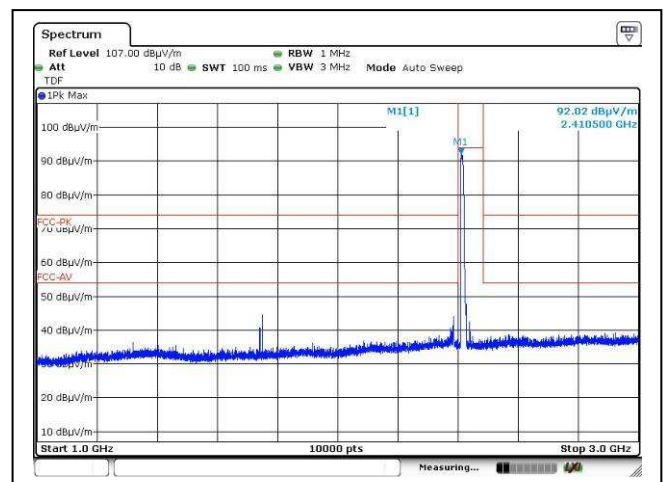
Lower channel, 30MHz – 1GHz, Horizontal



Lower channel, 30MHz – 1GHz, Vertical



Lower channel, 1GHz – 3GHz, Horizontal



Lower channel, 1GHz – 3GHz, Vertical



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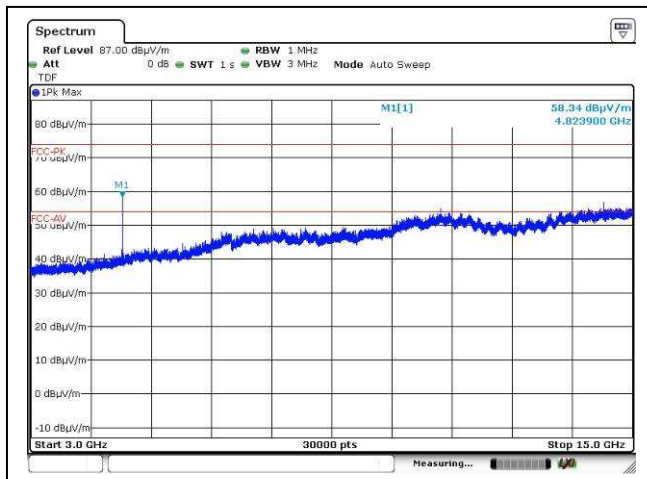
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TEST REPORT

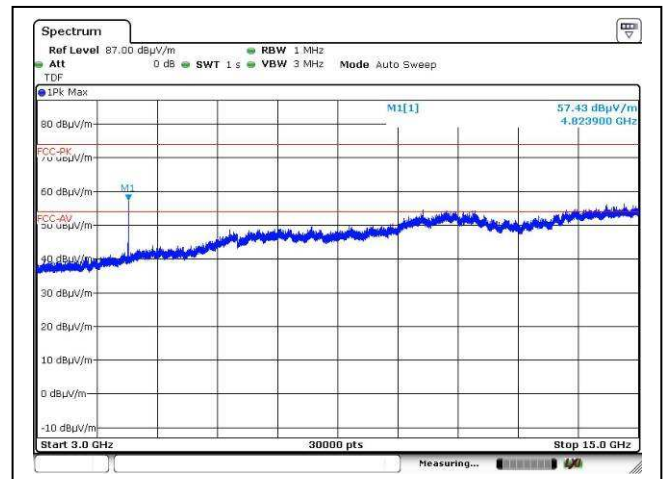
Report No. : AU0062274(0)

Date : 14 Nov 2016

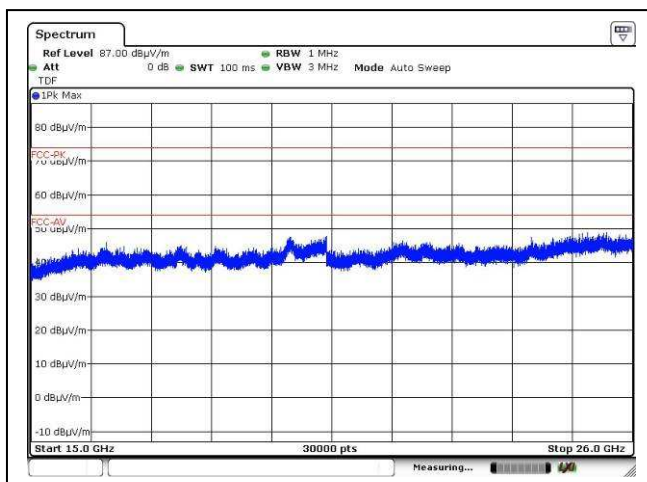
2.3 Radiated Emission Measurement Data (Con't)



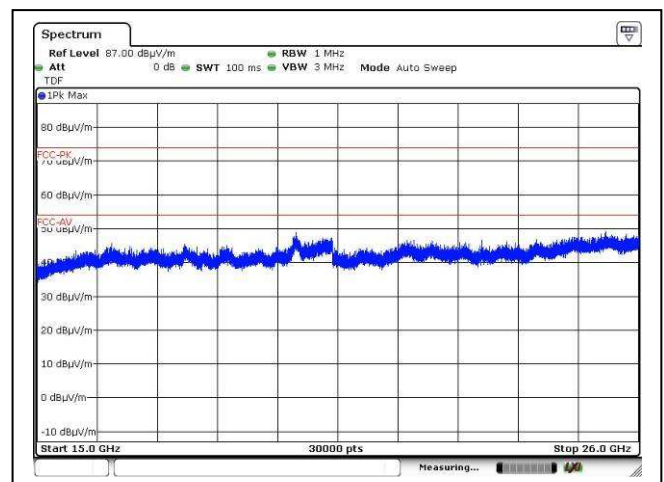
Lower channel, 3GHz – 15GHz, Horizontal



Lower channel, 3GHz – 15GHz, Vertical



Lower channel, 15GHz – 26GHz, Horizontal



Lower channel, 15GHz – 26GHz, Vertical

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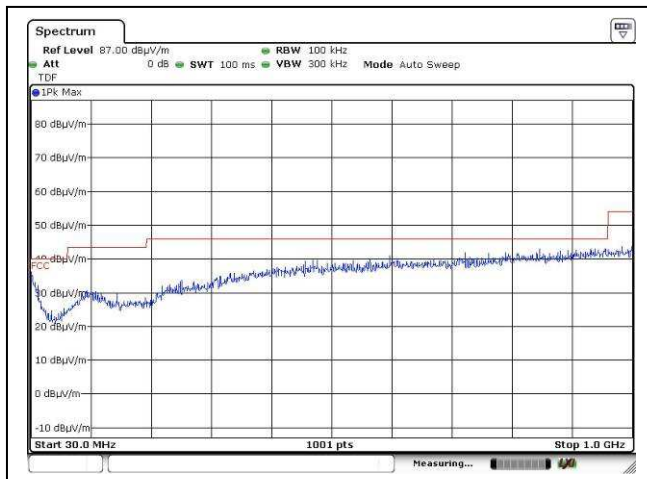
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TEST REPORT

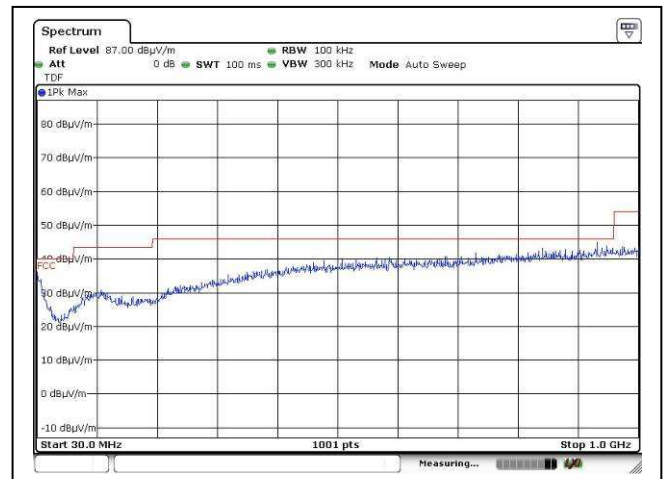
Report No. : AU0062274(0)

Date : 14 Nov 2016

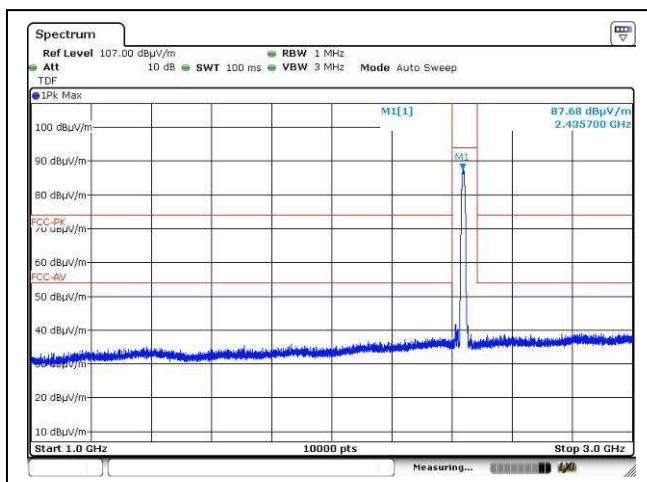
2.3 Radiated Emission Measurement Data (Con't)



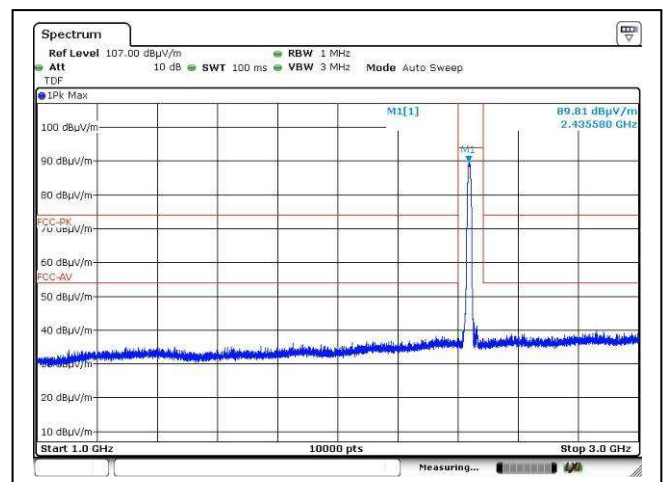
Middle channel, 30MHz – 1GHz, Horizontal



Middle channel, 30MHz – 1GHz, Vertical



Middle channel, 1GHz – 3GHz, Horizontal



Middle channel, 1GHz – 3GHz, Vertical



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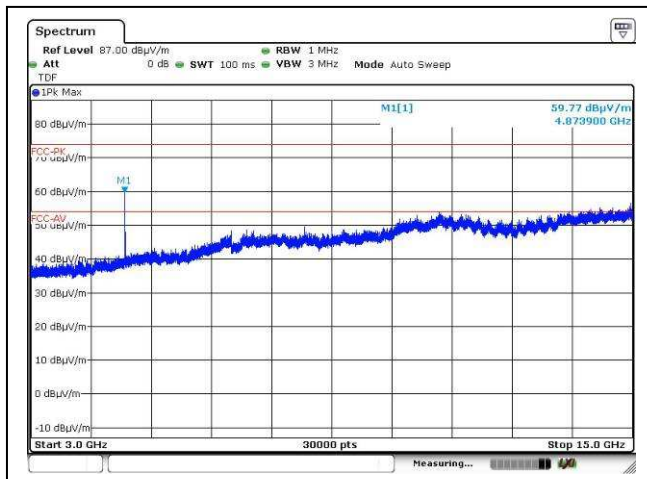
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TEST REPORT

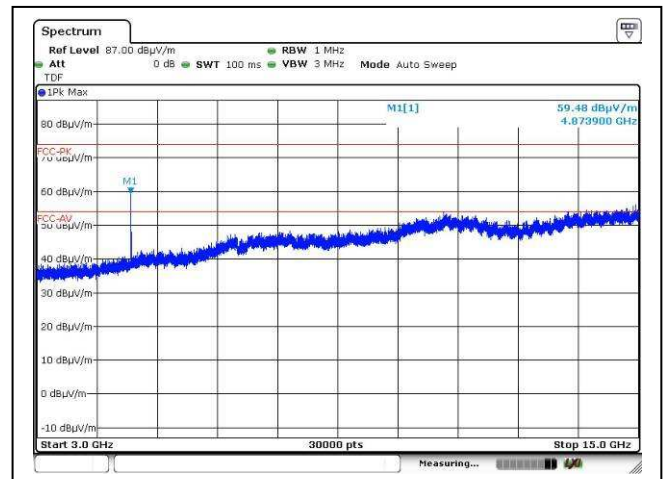
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Date : 14 Nov 2016

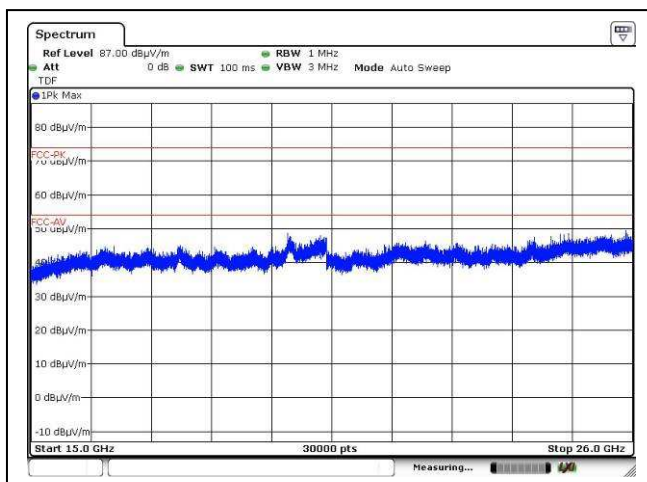
2.3 Radiated Emission Measurement Data (Con't)



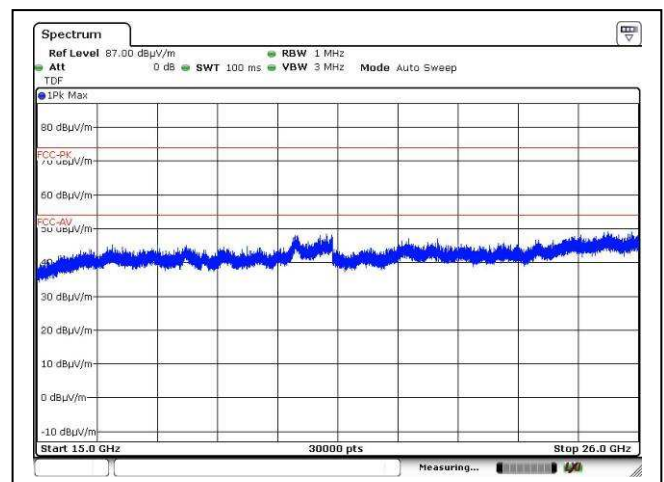
Middle channel, 3GHz – 15GHz, Horizontal



Middle channel, 3GHz – 15GHz, Vertical



Middle channel, 15GHz – 26GHz, Horizontal



Middle channel, 15GHz – 26GHz, Vertical



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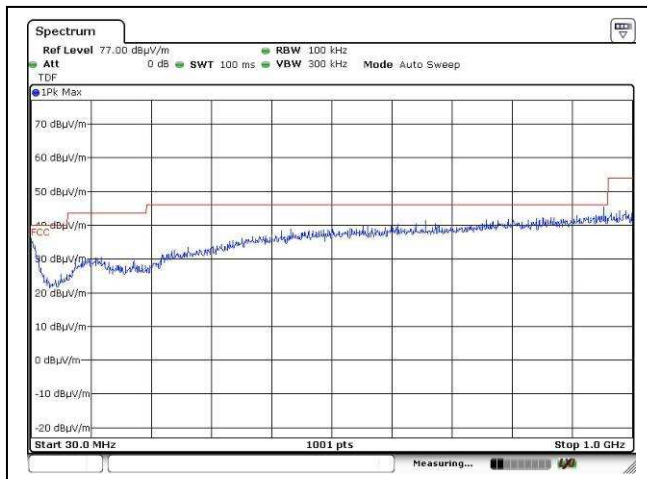
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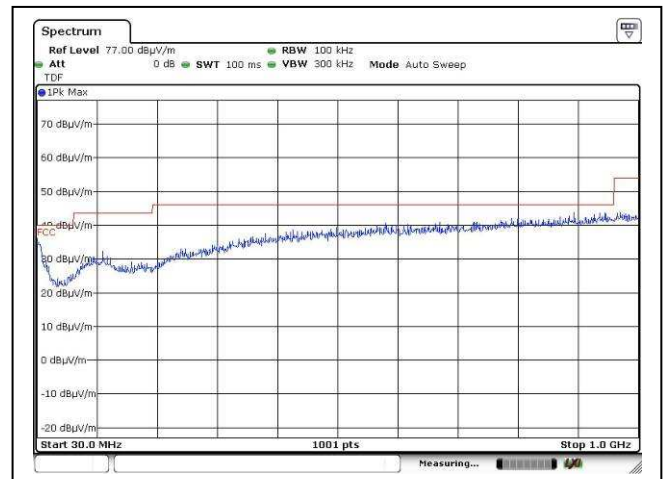
Report No. : AU0062274(0)

Date : 14 Nov 2016

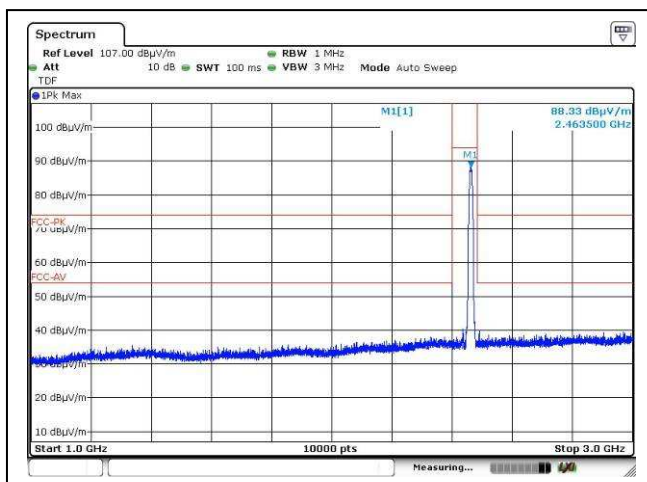
2.3 Radiated Emission Measurement Data (Con't)



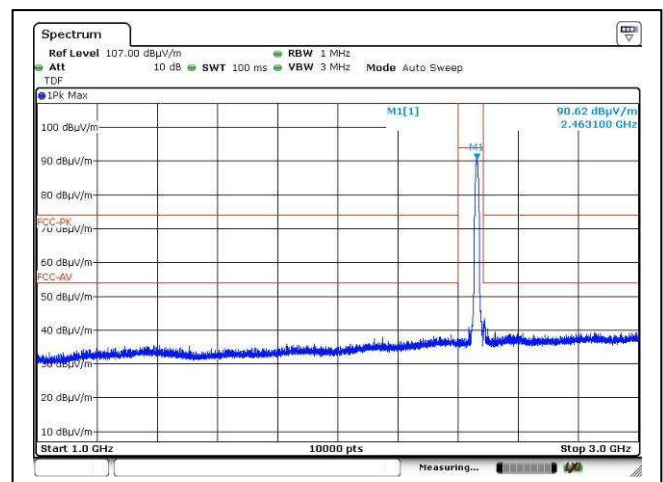
Higher channel, 30MHz – 1GHz, Horizontal



Higher channel, 30MHz – 1GHz, Vertical



Higher channel, 1GHz – 3GHz, Horizontal



Higher channel, 1GHz – 3GHz, Vertical



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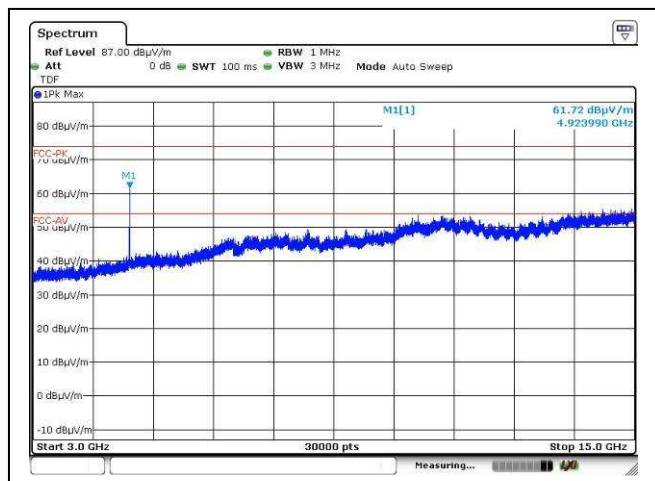
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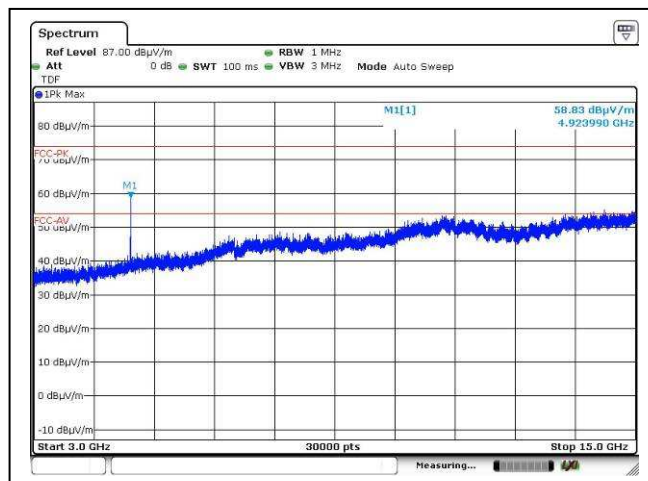
Report No. : AU0062274(0)

Date : 14 Nov 2016

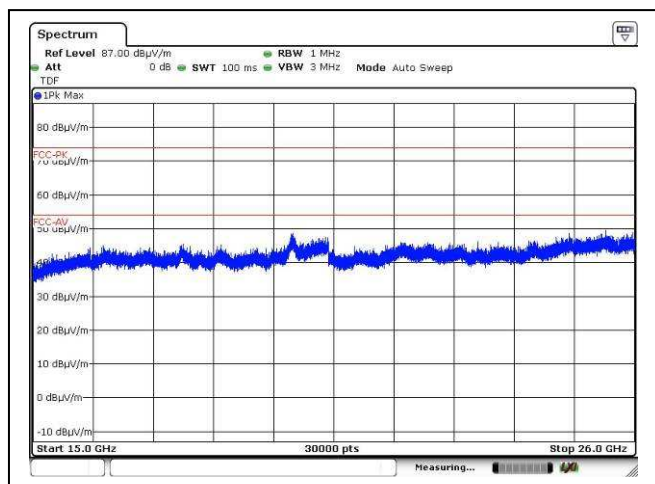
2.3 Radiated Emission Measurement Data (Con't)



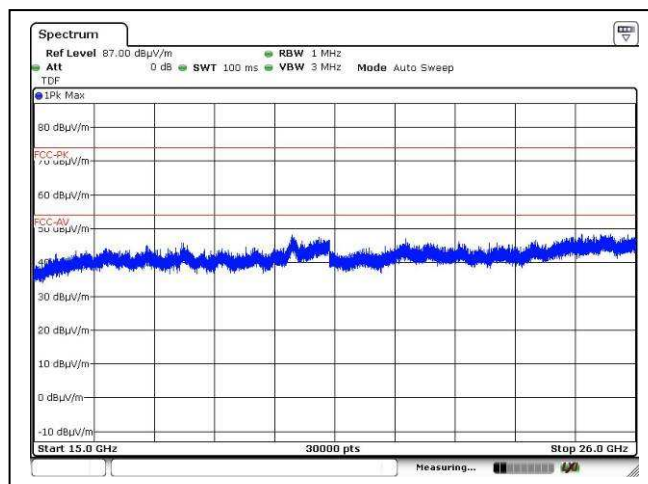
Higher channel, 3GHz – 15GHz, Horizontal



Higher channel, 3GHz – 15GHz, Vertical



Higher channel, 15GHz – 26GHz, Horizontal



Higher channel, 15GHz – 26GHz, Vertical

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2.3 Radiated Emission Measurement Data (Con't)

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	27	°C
Relative humidity:	60	%

Testing frequency range: 9kHz to 26GHz Mode: Transmission, 802.11n

Measurement: Quasi-peak (9kHz – 1GHz), Peak and Average(above 1GHz)

RBW: 9kHz (below 30MHz), 120kHz (30MHz – 1GHz), 1MHz (above 1GHz)

VBW: 30kHz (below 30MHz), 300kHz (30MHz – 1GHz), 3MHz (above 1GHz, Peak measurement), 10Hz (above 1GHz, Average measurement)

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)	Measurement (Peak/Average)
2410.612	H	94.9	- 4.2	90.7	114.0	- 23.3	Peak
2410.543	V	96.7	- 4.2	92.5	114.0	- 21.5	Peak
2435.683	H	91.9	- 4.2	87.7	114.0	- 26.3	Peak
2435.573	V	94.3	- 4.2	90.1	114.0	- 23.9	Peak
2463.421	H	92.8	- 4.3	88.5	114.0	- 25.5	Peak
2463.521	V	95.3	- 4.3	91.0	114.0	- 23.0	Peak
4823.897	H	56.3	3.7	60.0	74.0	- 14.0	Peak
4823.959	H	26.2	3.7	29.9	54.0	- 24.1	Average
4824.029	V	54.4	3.7	58.1	74.0	- 15.9	Peak
4823.889	V	26.0	3.7	29.7	54.0	- 24.3	Average
4873.957	H	56.9	3.7	60.6	74.0	- 13.4	Peak
4873.917	H	26.7	3.7	30.4	54.0	- 23.6	Average
4873.983	V	57.5	3.7	61.2	74.0	- 12.8	Peak
4873.885	V	26.6	3.7	30.3	54.0	- 23.7	Average
4923.991	H	58.4	4.0	62.4	74.0	- 11.6	Peak
4923.929	H	26.7	4.0	30.7	54.0	- 23.3	Average
4924.079	V	56.8	4.0	60.8	74.0	- 13.2	Peak
4924.039	V	26.5	4.0	30.5	54.0	- 23.5	Average

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

If Peak measurement values are lower than average limit, average measurement is not necessary.

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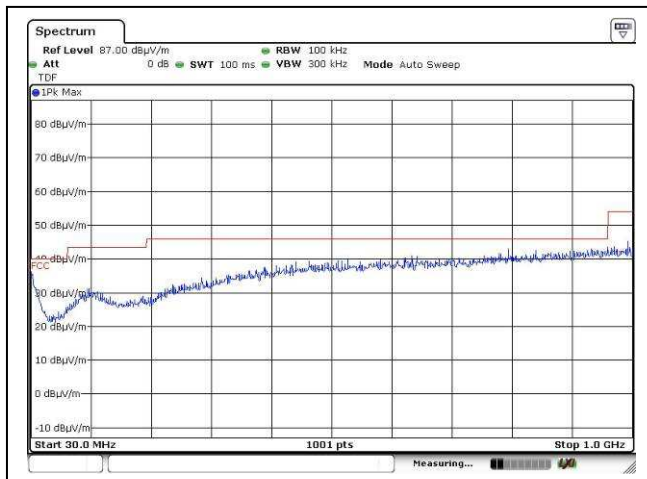
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TEST REPORT

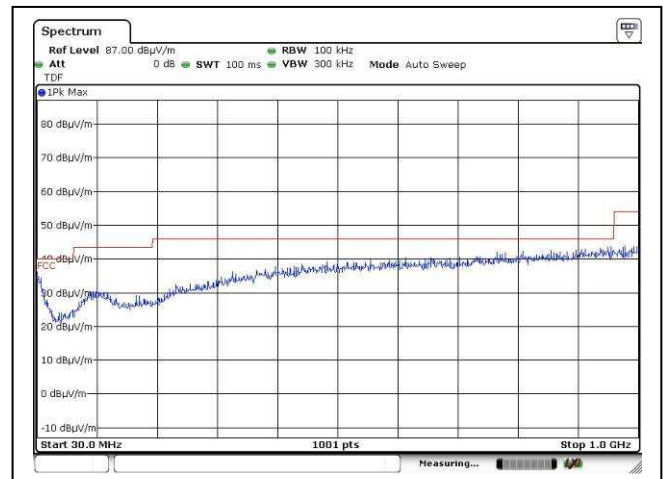
Report No. : AU0062274(0)

Date : 14 Nov 2016

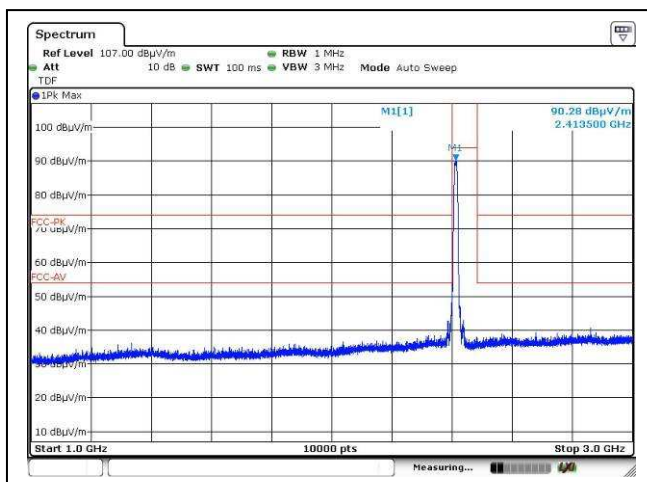
2.3 Radiated Emission Measurement Data (Con't)



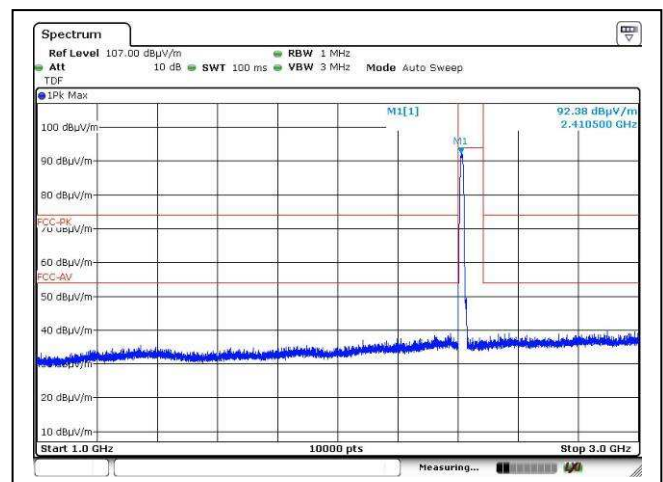
Lower channel, 30MHz – 1GHz, Horizontal



Lower channel, 30MHz – 1GHz, Vertical



Lower channel, 1GHz – 3GHz, Horizontal



Lower channel, 1GHz – 3GHz, Vertical



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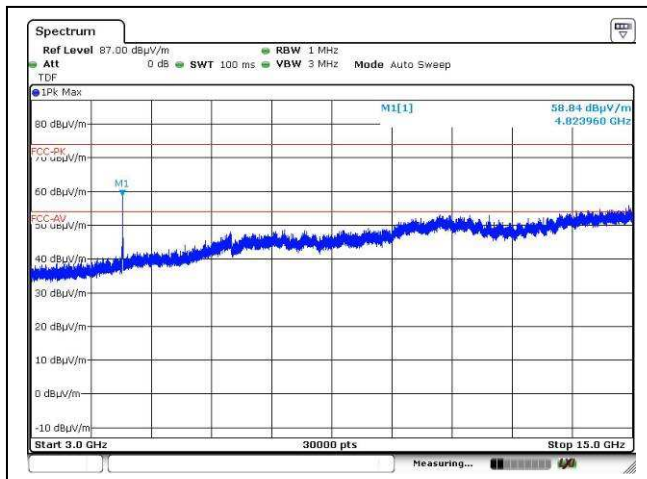
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TEST REPORT

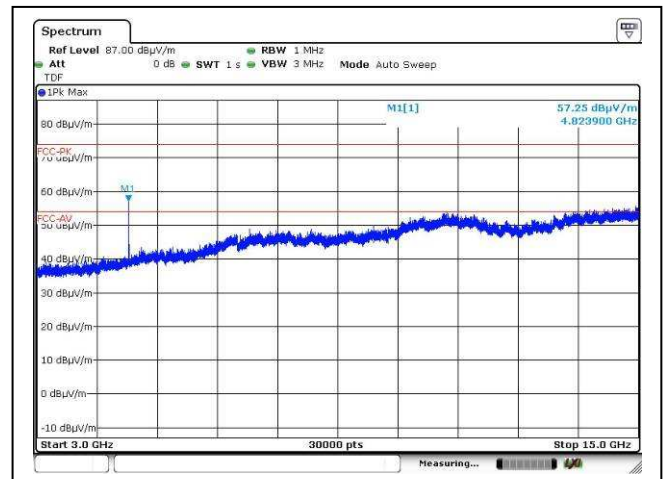
Report No. : AU0062274(0)

Date : 14 Nov 2016

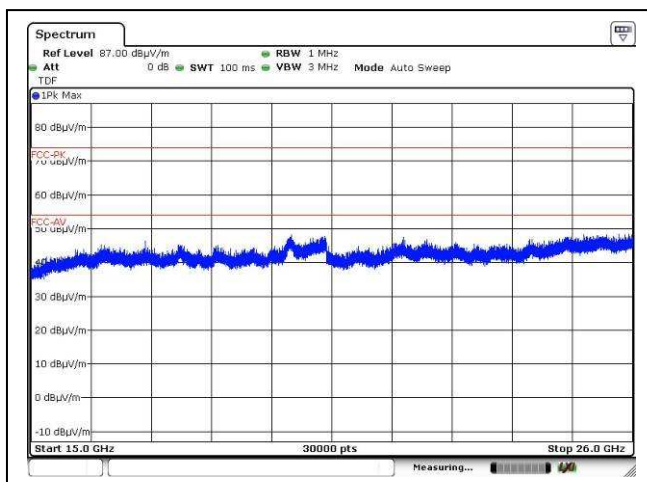
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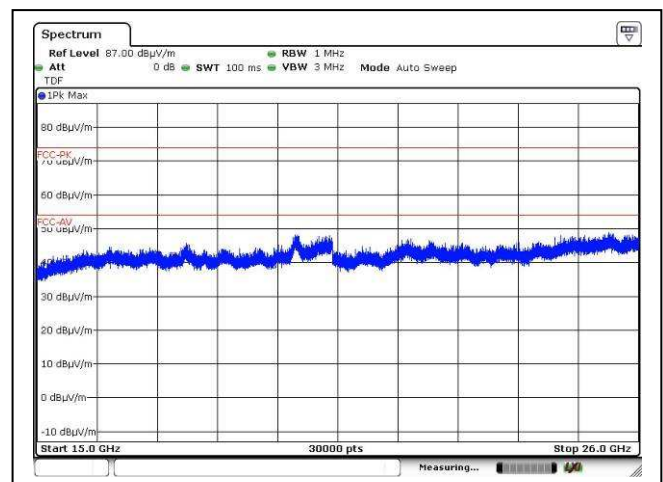
Lower channel, 3GHz – 15GHz, Horizontal



Lower channel, 3GHz – 15GHz, Vertical



Lower channel, 15GHz – 26GHz, Horizontal



Lower channel, 15GHz – 26GHz, Vertical



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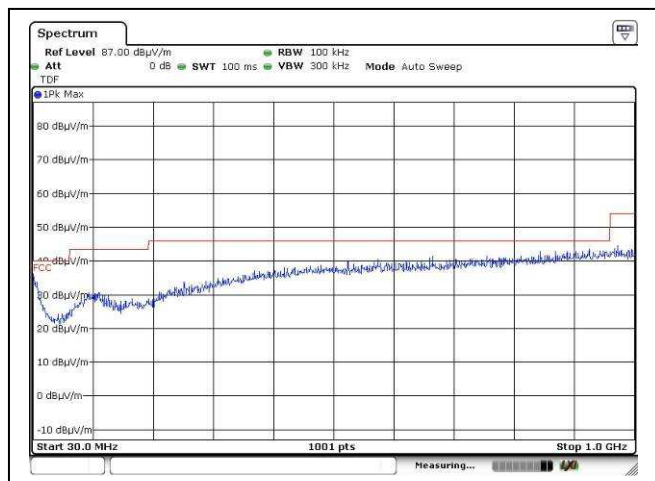
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TEST REPORT

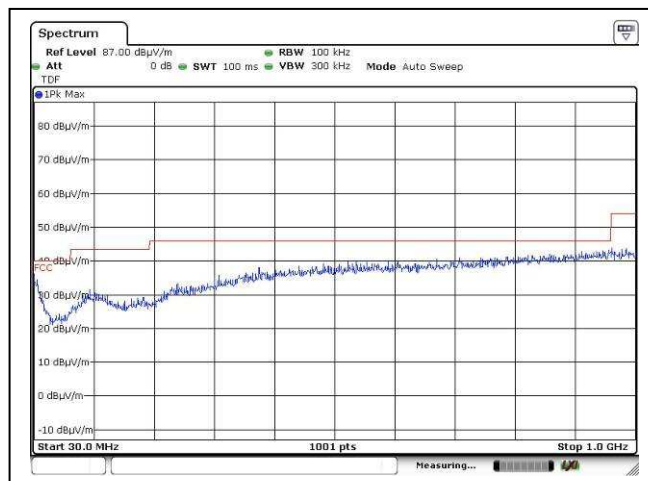
Report No. : AU0062274(0)

Date : 14 Nov 2016

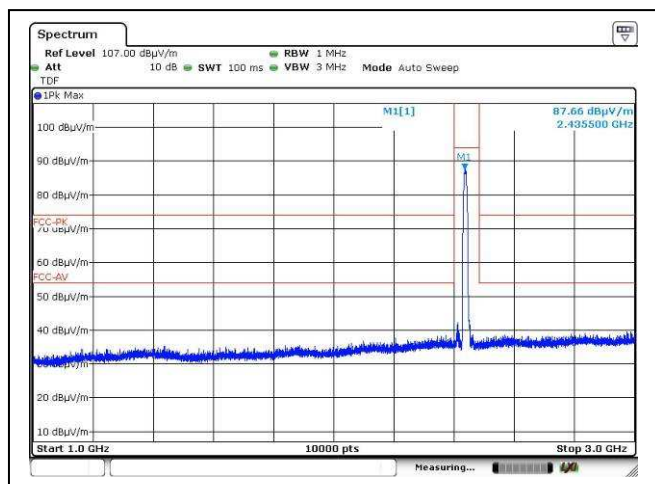
2.3 Radiated Emission Measurement Data (Con't)



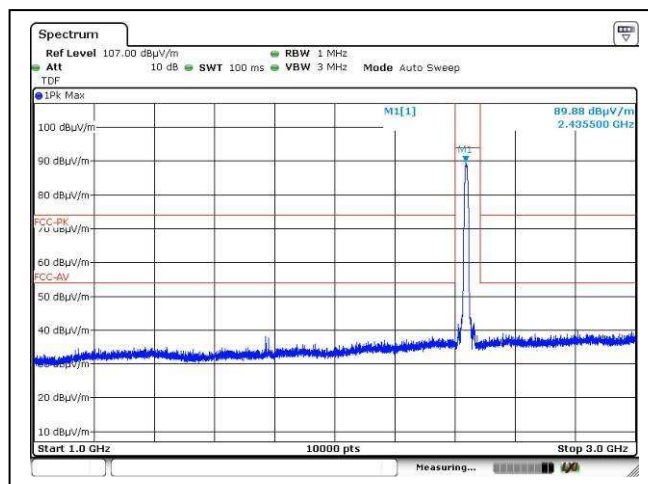
Middle channel, 30MHz – 1GHz, Horizontal



Middle channel, 30MHz – 1GHz, Vertical



Middle channel, 1GHz – 3GHz, Horizontal



Middle channel, 1GHz – 3GHz, Vertical



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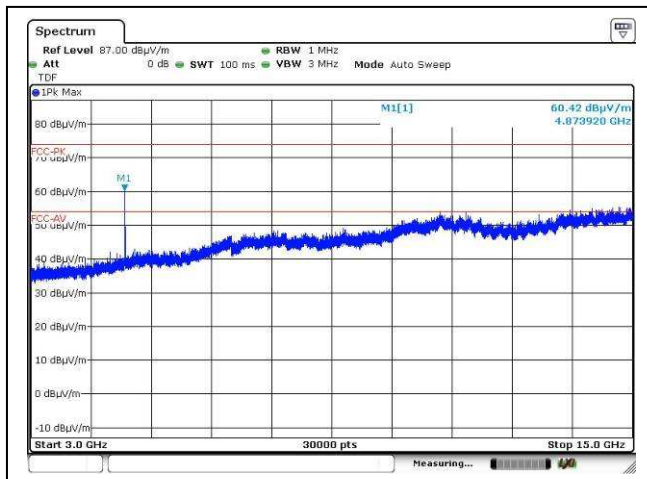
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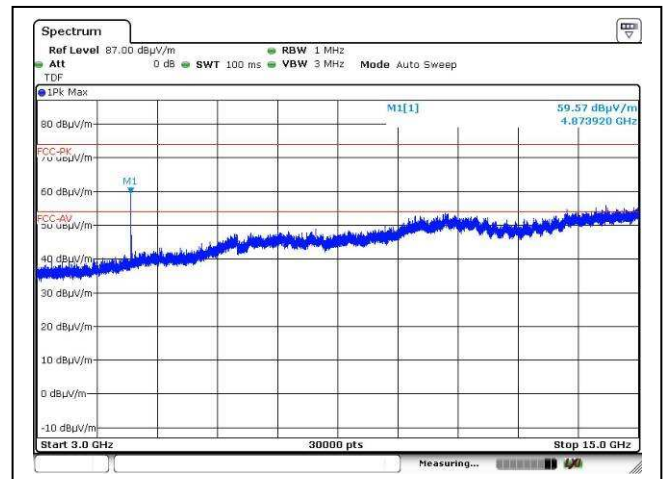
Report No. : AU0062274(0)

Date : 14 Nov 2016

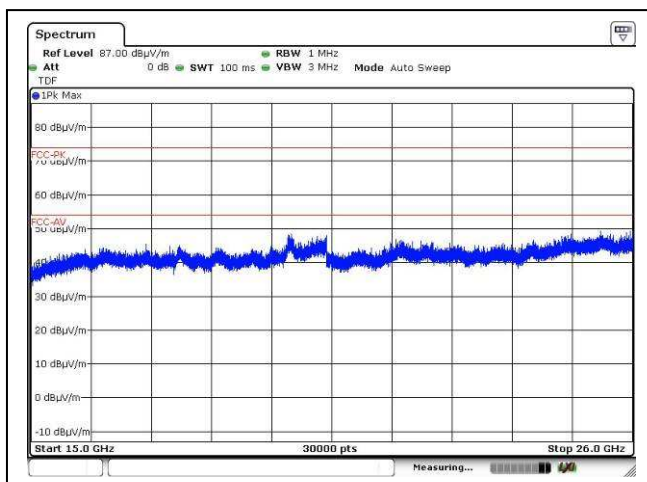
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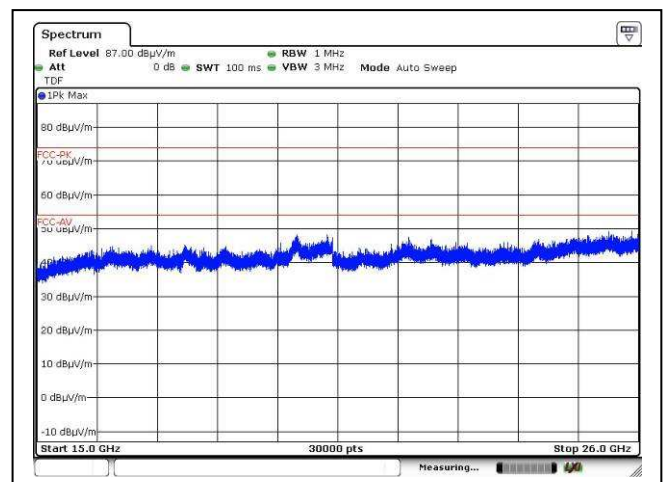
Middle channel, 3GHz – 15GHz, Horizontal



Middle channel, 3GHz – 15GHz, Vertical



Middle channel, 15GHz – 26GHz, Horizontal



Middle channel, 15GHz – 26GHz, Vertical



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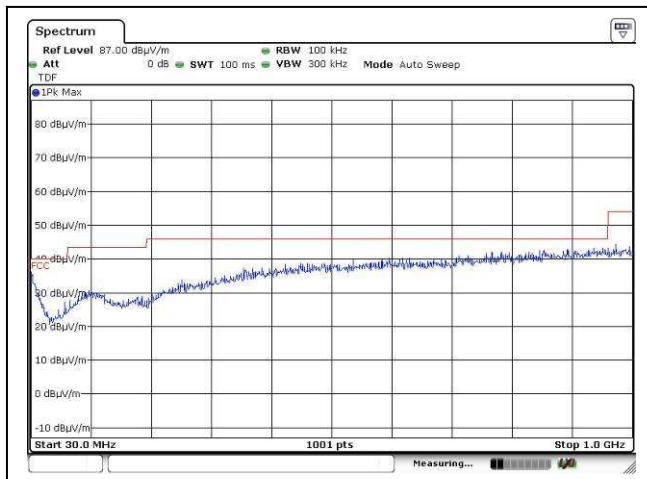
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TEST REPORT

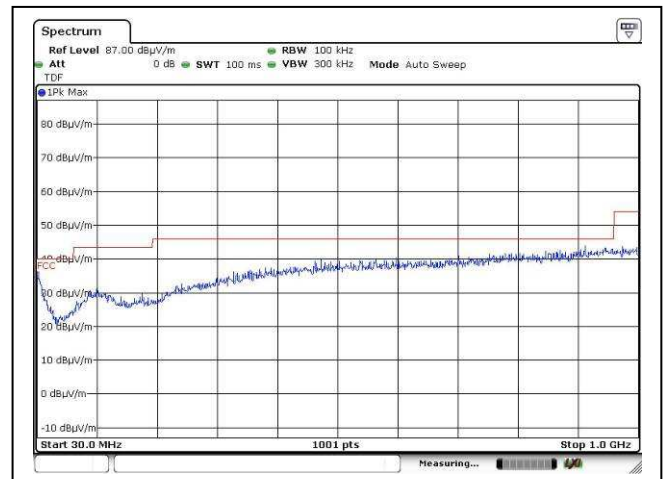
Report No. : AU0062274(0)

Date : 14 Nov 2016

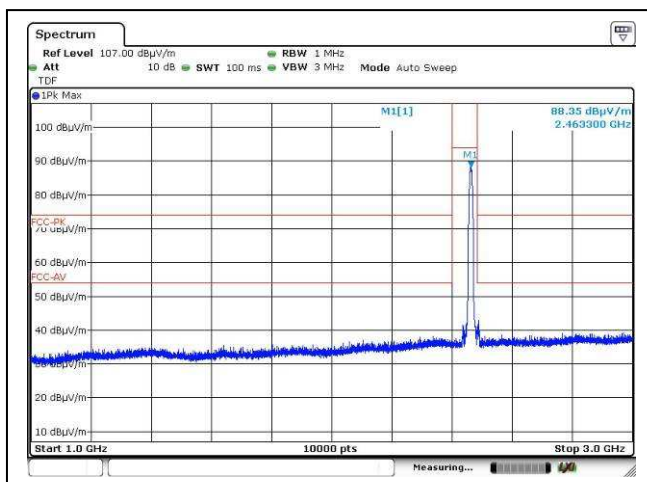
2.3 Radiated Emission Measurement Data (Con't)



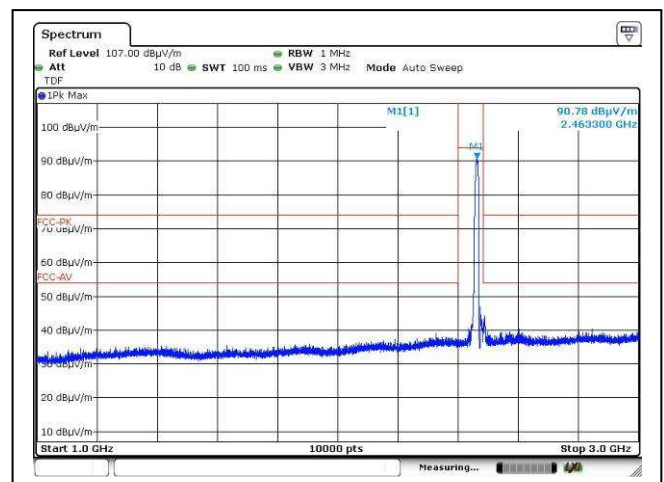
Higher channel, 30MHz – 1GHz, Horizontal



Higher channel, 30MHz – 1GHz, Vertical



Higher channel, 1GHz – 3GHz, Horizontal



Higher channel, 1GHz – 3GHz, Vertical



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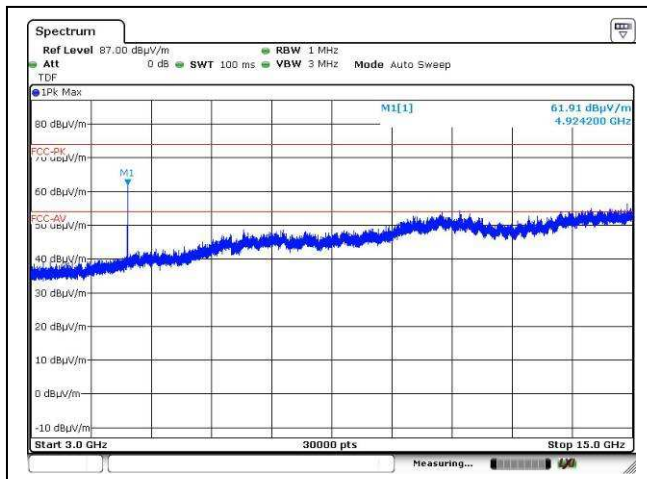
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TEST REPORT

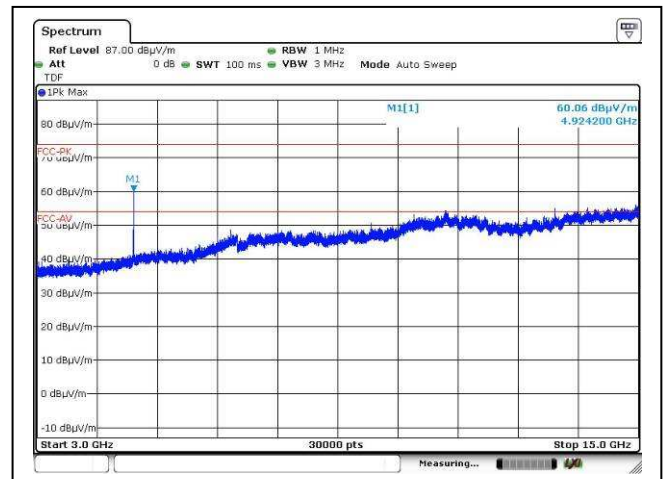
Report No. : AU0062274(0)

Date : 14 Nov 2016

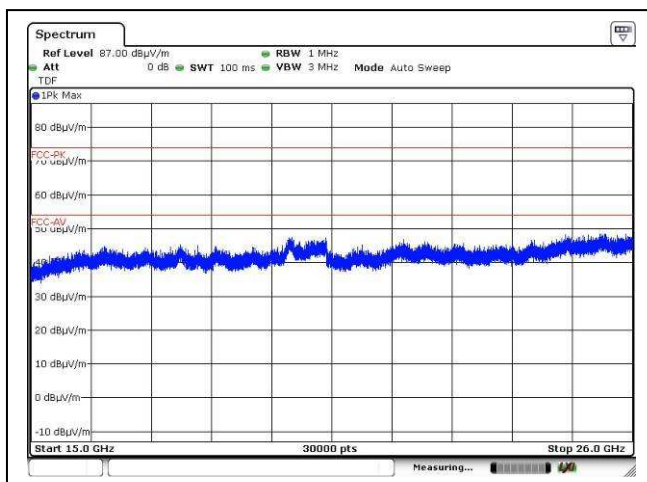
2.3 Radiated Emission Measurement Data (Con't)



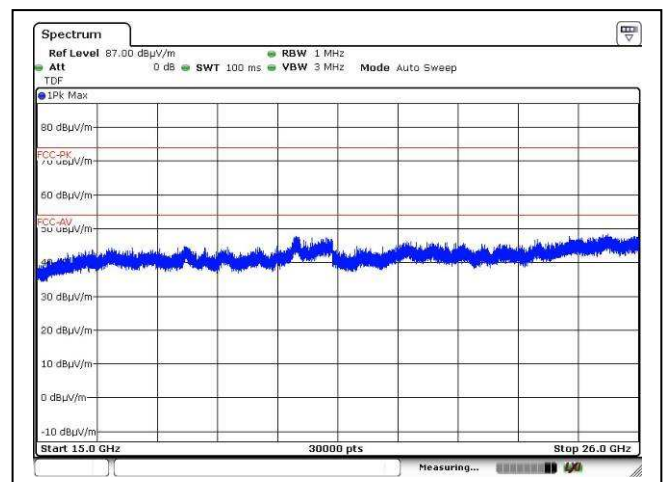
Higher channel, 3GHz – 15GHz, Horizontal



Higher channel, 3GHz – 15GHz, Vertical



Higher channel, 15GHz – 26GHz, Horizontal



Higher channel, 15GHz – 26GHz, Vertical



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Report No. : AU0062274(0)

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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



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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 PEQ-WSST3000 TSup.pdf.

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename PEQ-WSST3000 ExPho.pdf and PEQ-WSST3000 InPho.pdf.

4.3 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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5 Appendices

A1	Photos of the set-up of Radiated Emissions	2	pages
A2	Photos of the set-up of Conducted Emissions	1	page
A3	Photos of External Configurations	4	pages
A4	Photos of Internal Configurations	4	pages
A5	ID Label/Location	1	page



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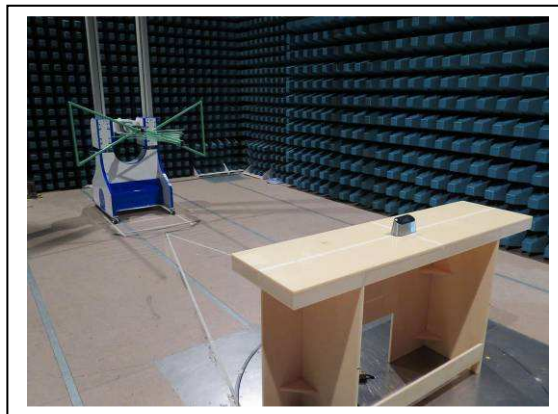
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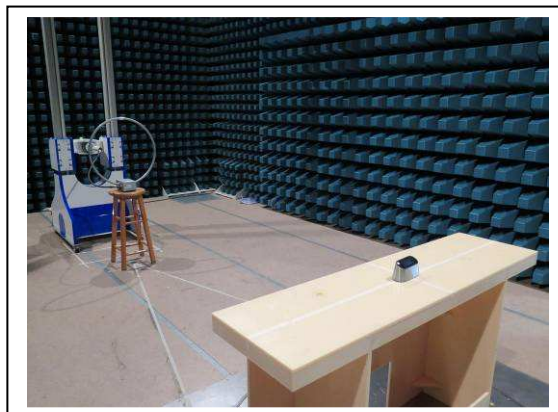
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A1. Photos of the set-up of Radiated Emissions



30MHz – 1GHz



9kHz – 30MHz

Tested by:

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Reviewed by:

Mr. WONG Lap-pong, Andrew



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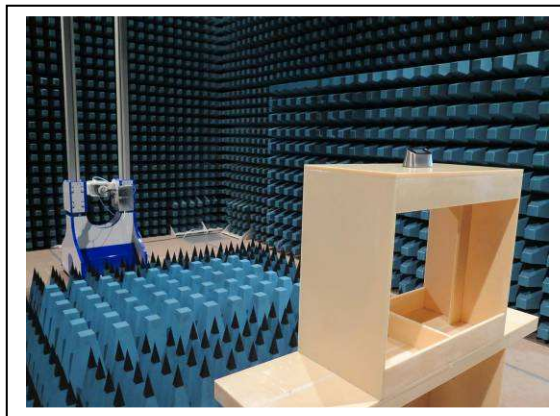
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A1. Photos of the set-up of Radiated Emissions



1GHz – 26GHz

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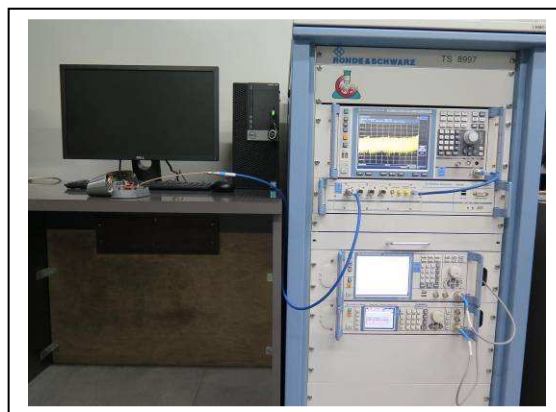
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A2. Photos of the set-up of Conducted Emissions



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A3 Photos of External Configurations



External Configuration 1



External Configuration 2

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Mr. WONG Lap-pong, Andrew



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A3 Photos of External Configurations



External Configuration 3



External Configuration 4

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Mr. WONG Lap-pong, Andrew



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A3 Photos of External Configurations



External Configuration 5



External Configuration 6

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A3 Photos of External Configurations



External Configuration 7

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Mr. WONG Lap-pong, Andrew



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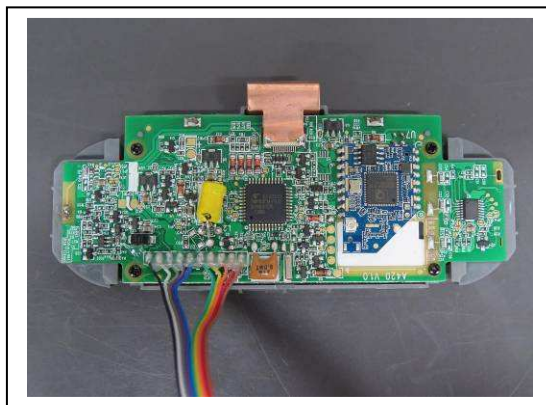
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A4 Photos of Internal Configurations



Internal Configuration 1



Internal Configuration 2

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Mr. WONG Lap-pong, Andrew



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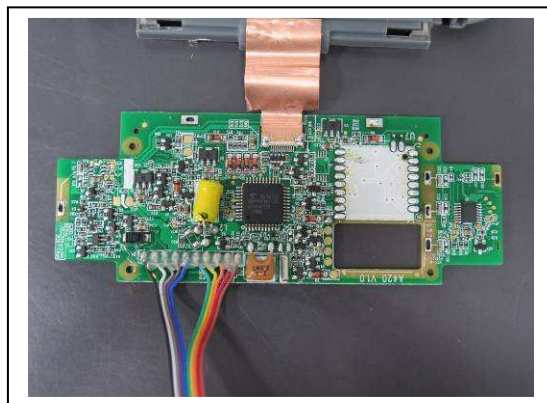
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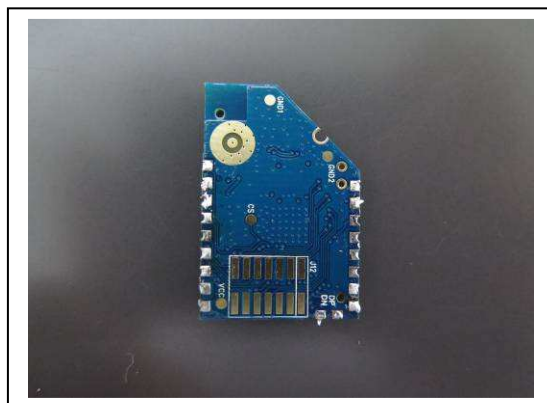
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A4 Photos of Internal Configurations



Internal Configuration 3



Internal Configuration 4

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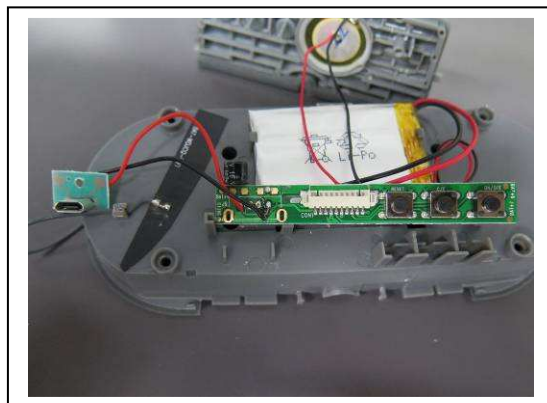
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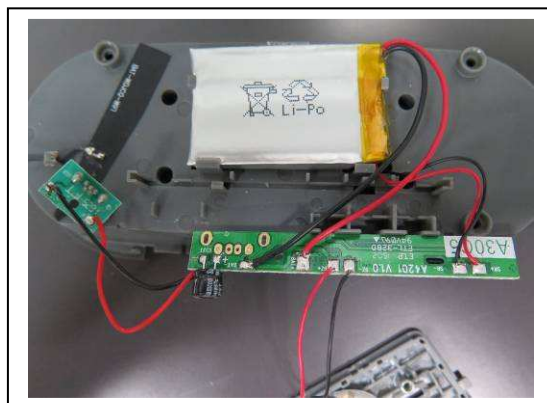
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A4 Photos of Internal Configurations



Internal Configuration 5



Internal Configuration 6

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Reviewed by:

Mr. WONG Lap-pong, Andrew



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A4 Photos of Internal Configurations



EUT antenna

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Reviewed by:

Mr. WONG Lap-pong, Andrew



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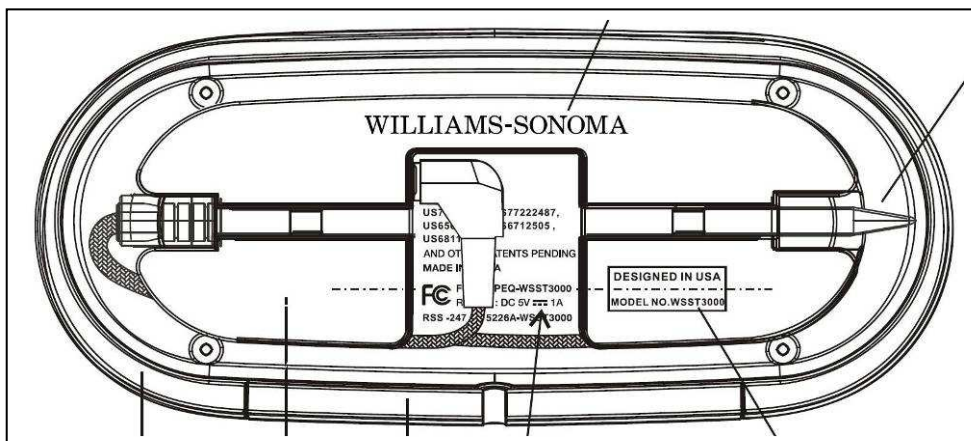
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TEST REPORT

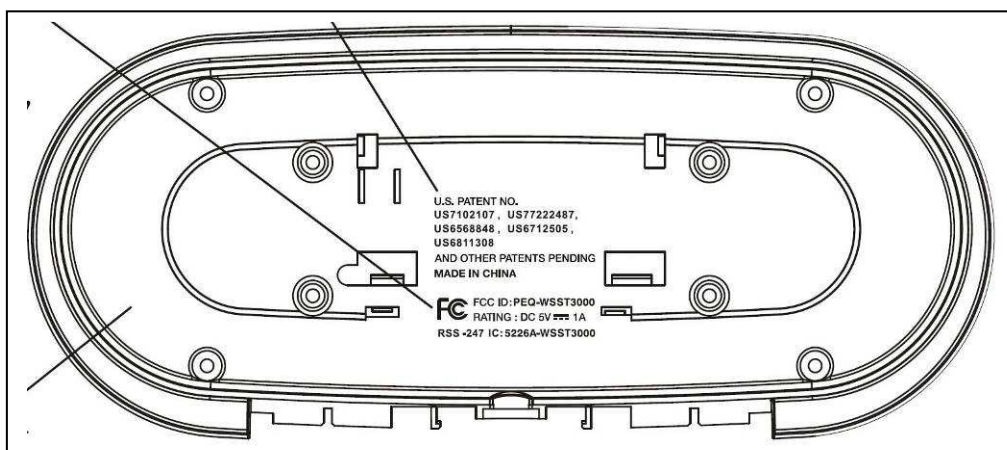
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A5 ID Label / Location



ID Label 1



ID Label 2

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

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Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew