

MRT Technology (Suzhou) Co., Ltd

Phone: +86-512-66308358 Fax: +86-512-66308368 www.mrt-cert.com

Report No.: 1412RSU02301 Report Version: Issue Date: 01-06-2015

MEASUREMENT REPORT

FCC PART 15.247 WLAN 802.11b/g/n

FCC ID: 2ADVXM5Q10-B

APPLICANT: Shenzhen Shuangchi CO.,Ltd.

Application Type: Certification

Product: WIFI MODULE

Model No.: M5Q10-B, M5Q10-X, M5Q10-A, M5Q10-C

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part 15.247

Test Procedure(s): ANSI C63.10-2009, KDB 558074 D01v03r02

Test Date: Dec. 25 ~ 29, 2014

Reviewed By : Robin Wu (Robin Wu)

Approved By : Marlinchen

(Marlin Chen)

The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 558074 D01v03r02. Test results reported herein relate only to the item(s) tested.

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Revision History

Report No.	Version	Description	Issue Date
1412RSU02301	Rev. 01	Initial report	12-29-2014
1412RSU02301	Rev. 02	Corrected some test result	01-06-2015

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8.



§2.1033 General Information

Applicant:	Shenzhen Shuangchi CO., Ltd.			
Applicant Address:	4/FL, 2Block, Lianchuang Industrical Park, Bulan Road, Longgang,			
	Shenzhen, China			
Manufacturer:	SUNITEC ENTERPRISE CO., LTD			
Manufacturer Address:	NO.2, Qilin Road 2, Runtang Ind, Dankeng Village, Fuming Community,			
	Guanlan Town, Longhua New District, Shenzhen, China			
Test Site:	MRT Technology (Suzhou) Co., Ltd			
Test Site Address:	D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong			
	Economic Development Zone, Suzhou, China			
MRT Registration No.:	809388			
FCC Rule Part(s):	Part 15.247			
Model No.:	M5Q10-B			
FCC ID:	2ADVXM5Q10-B			
Test Device Serial No.:	N/A ☐ Production ☐ Pre-Production ☐ Engineering			
FCC Classification:	Digital Transmission System (DTS)			

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 809388) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-4179, G-814, C-4664, T-2206) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory
 Accreditation (A2LA) under the American Association for Laboratory Accreditation
 Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications and Radio testing for FCC,
 Industry Canada, EU and TELEC Rules.

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1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.



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2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name	WIFI MODULE
1 Toddet Name	WILLINGDOLL
Model No.	M5Q10-B, M5Q10-X, M5Q10-A, M5Q10-C
Wi-Fi	
Frequency Range	802.11b/g/n-HT20: 2412 ~ 2462 MHz
	802.11n-HT40: 2422 ~ 2452 MHz
Type of Modulation	802.11b: DSSS
	802.11g/n: OFDM
Data Rate	802.11b: 1/2/5.5/11 Mbps
	802.11g: 6/9/12/18/24/36/48/54 Mbps
	802.11n: up to 150 Mbps
Antenna Type	Internal
Antenna Gain	1.8dBi

Note: The difference of models is for different marketing requirement.

Channel List for 802.11b/g/n-HT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz	N/A	N/A

Channel List for 802.11n-HT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz
06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	N/A	N/A	N/A	N/A

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2.2. Device Capabilities

This device contains the following capabilities:

802.11b/g/n WLAN (DTS)

Note: 2.4GHz WLAN (DTS) operation is possible in 20MHz, and 40MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section 6.0 b) of KDB 558074 D01v03r02. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

- · 802.11b 99%
- · 802.11g/n-HT20 99%
- · 802.11n-HT40 98.1%

2.3. Test Configuration

The **WIFI MODULE FCC ID: 2ADVXM5Q10-B** was tested per the guidance of KDB 558074 D01v03r02. ANSI C63.10-2009 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.4. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.5. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the trade name and FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

2.6. Test Software

The test utility software used during testing was engineering directive ordered by applicant.

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3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2009), and the guidance provided in KDB 558074 D01v03r02 were used in the measurement of the **WIFI MODULE FCC ID**: **2ADVXM5Q10-B**.

Deviation from measurement procedure......None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, $50\Omega/50uH$ Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions were used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2009 at Clause 4.3.

Line conducted emissions test results are shown in Section 7.8.

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3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable. For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 0.8 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB BeamWidth of horn antenna, the horn antenna should be always directed to the EUT when rising height.

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4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

- The antenna of the WIFI MODULE is permanently attached.
- There are no provisions for connection to an external antenna.

Conclusion:

The WIFI MODULE FCC ID: 2ADVXM5Q10-B unit complies with the requirement of §15.203.

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5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions

Instrument	Manufacturer	Type No.	Serial No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	101209	1 year	2015/11/07
Two-Line V-Network	R&S	ENV216	101683	1 year	2015/11/07
Two-Line V-Network	R&S	ENV216	101684	1 year	2015/11/07
Temperature/ Meter Humidity	Anymetre	TH101B	SR2-01	1 year	2015/11/14

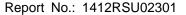
Radiated Emission

Instrument	Manufacturer	Type No.	Serial No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	E4447A	MY45300136	1 year	2015/12/09
Preamplifier	MRT	AP01G18	1310002	1 year	2015/12/13
Loop Antenna	Schwarzbeck	FMZB1519	1519-041	1 year	2015/11/08
TRILOG Antenna	Schwarzbeck	VULB9162	9162-047	1 year	2015/11/08
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1167	1 year	2015/11/08
Broadband Horn Antenna	Schwarzbeck	BBHA9170	9170-549	1 year	2015/12/11
Temperature/Humidity Meter	Anymetre	TH101B	AC1-01	1 year	2015/11/14

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Serial No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	E4447A	MY45300136	1 year	2015/12/09
Power Sensor	Agilent	U2021XA	MY52450003	1 year	2015/12/09
Temperature/Humidity Meter	Anymetre	TH101B	TR3-01	1 year	2015/11/14

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6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

AC Conducted Emission Measurement

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

150kHz~30MHz: ± 3.46dB

Radiated Emission Measurement

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

9kHz ~ 1GHz: ± 4.18dB 1GHz ~ 25GHz: ± 4.76dB

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7. TEST RESULT

7.1. Summary

Product Name: <u>WIFI MODULE</u>
FCC ID: <u>2ADVXM5Q10-B</u>

FCC Classification: <u>Digital Transmission System (DTS)</u>

Data Rate(s) 1Mbps ~ 11Mbps (b); 6Mbps ~ 54Mbps (g);

Tested: <u>6.5/7.2Mbps ~ 65/72.2Mbps (n - HT20);</u>

13.5/15Mbps ~ 135/150Mbps (n - HT40)

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	6dB Bandwidth	≥ 500kHz	Conducted	Pass	Section 7.2
15.247(b)(3)	Output Power	≤ 1Watt		Pass Pass Pass	Section 7.3
15.247(e)	Power Spectral Density	≤ 8dBm / 3kHz Band			Section 7.4
15.247(d)	Band Edge / Out-of-Band Emissions	≥ 20dBc(Peak)			Section 7.5
15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Radiated	Pass	Section 7.6 & 7.7
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Pass	Section 7.8

Notes:

- All modes of operation and data rates were investigated. For radiated emission test, every axis
 (X, Y, Z) was also verified. The test results shown in the following sections represent the worst
 case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.

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7.2. 6dB Bandwidth Measurement

7.2.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

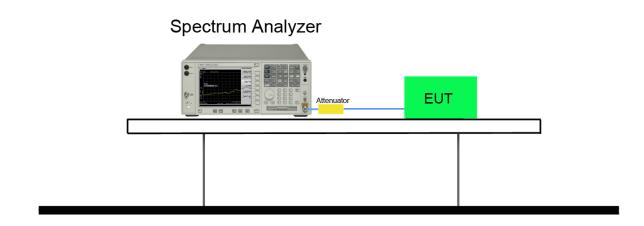
7.2.2. Test Procedure used

KDB 558074 D01v03r02 - Section 8.2 Option 2

7.2.3. Test Setting

- The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. Set RBW = 100 kHz
- 3. VBW ≥ 3 × RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. Allow the trace was allowed to stabilize

7.2.4. Test Setup

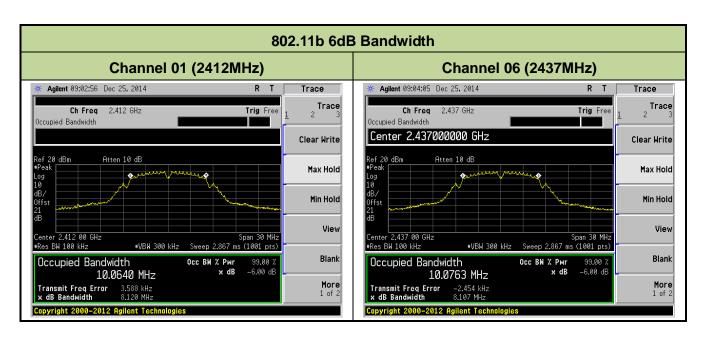


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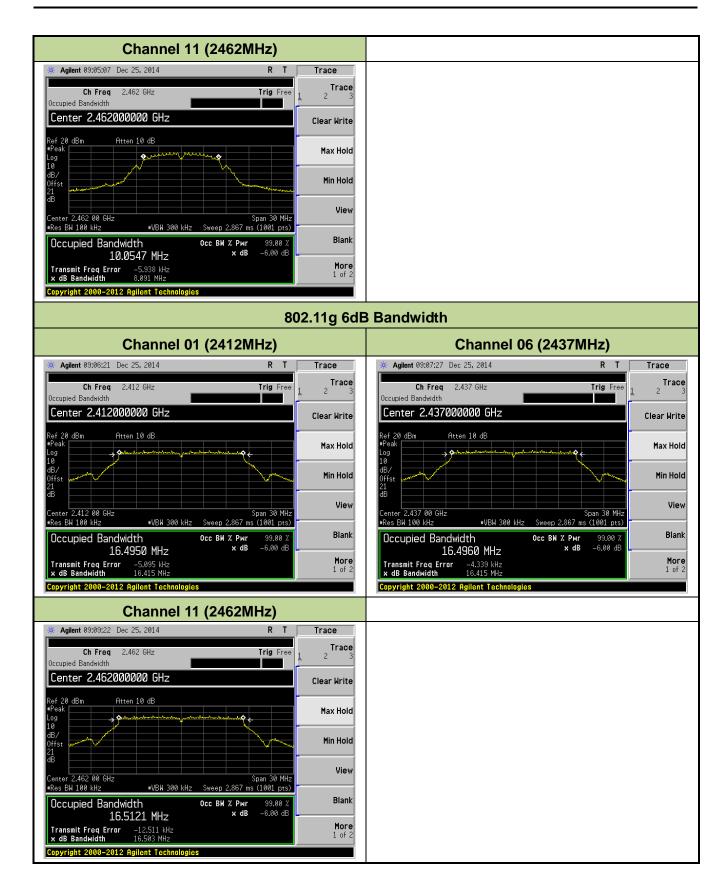
7.2.5. Test Result

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	1	01	2412	8.12	≥ 0.5	Pass
802.11b	1	06	2437	8.11	≥ 0.5	Pass
802.11b	1	11	2462	8.09	≥ 0.5	Pass
802.11g	6	01	2412	16.42	≥ 0.5	Pass
802.11g	6	06	2437	16.42	≥ 0.5	Pass
802.11g	6	11	2462	16.50	≥ 0.5	Pass
802.11n-HT20	6.5	01	2412	17.62	≥ 0.5	Pass
802.11n-HT20	6.5	06	2437	17.64	≥ 0.5	Pass
802.11n-HT20	6.5	11	2462	17.65	≥ 0.5	Pass
802.11n-HT40	13.5	03	2422	35.76	≥ 0.5	Pass
802.11n-HT40	13.5	06	2437	35.57	≥ 0.5	Pass
802.11n-HT40	13.5	09	2452	35.47	≥ 0.5	Pass

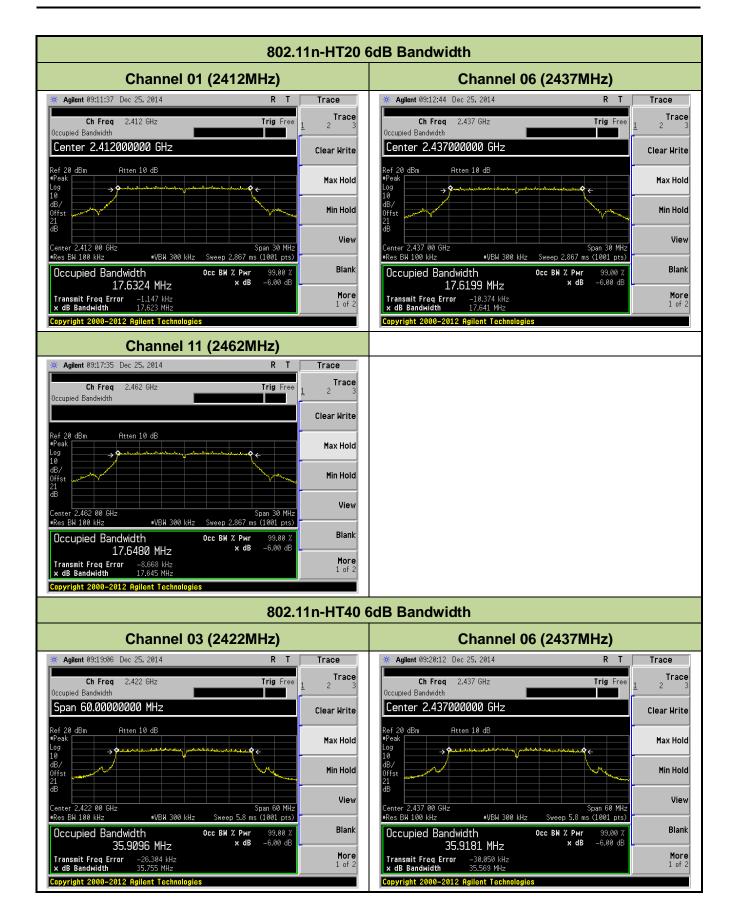


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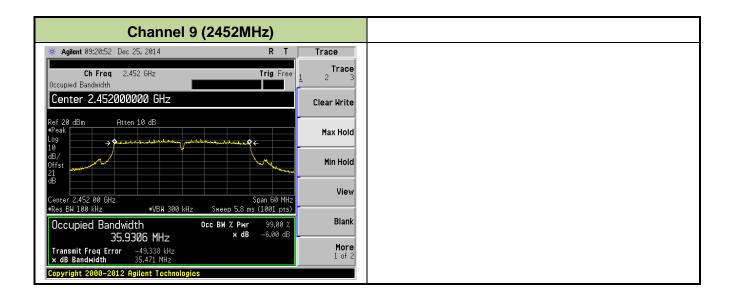














7.3. Output Power Measurement

7.3.1. Test Limit

The maximum out power shall be less 1 Watt (30dBm).

7.3.2. Test Procedure Used

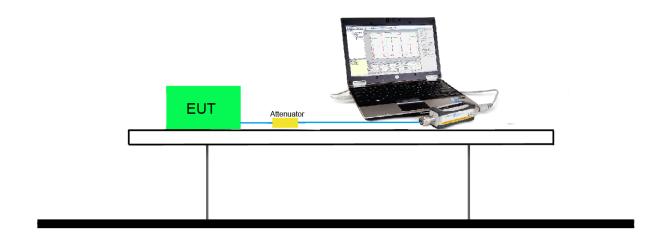
KDB 558074 D01v03r02 - Section 9.1.2 PKPM1 Peak Power Method (for signals with BW ≤ 50MHz)

7.3.3. Test Setting

Method PKPM1 (Peak Power Measurement of Signals with DTS BW ≤ 50MHz)

Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

7.3.4. Test Setup



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7.3.5. Test Result of Output Power

Output power at various data rates:

Test Mode	Bandwidth (MHz)	Channel No.	Frequency (MHz)	Data Rate (Mbps)	Peak Power (dBm)
802.11b	20	6	2437	1	20.17
				5.5	19.67
				11	19.08
	20	6	2437	6	24.43
802.11g				24	23.88
				54	23.12
802.11n	20	6	2437	6.5/7.2(MCS0)	23.87
				39/43.3(MCS4)	23.18
				65/72.2(MCS7)	22.68
802.11n	40	6	2437	13.5/15(MCS0)	24.13
				81/90(MCS4)	23.65
				135/150(MCS7)	23.01

Test Result of Peak Output Power

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
11b	1	1	2412	20.12	≤ 30	Pass
11b	1	6	2437	20.17	≤ 30	Pass
11b	1	11	2462	20.43	≤ 30	Pass
11g	6	1	2412	24.25	≤ 30	Pass
11g	6	6	2437	24.43	≤ 30	Pass
11g	6	11	2462	24.47	≤ 30	Pass
11n-HT20	6.5	1	2412	24.13	≤ 30	Pass
11n-HT20	6.5	6	2437	23.87	≤ 30	Pass
11n-HT20	6.5	11	2462	23.85	≤ 30	Pass
11n-HT40	13.5	3	2422	24.12	≤ 30	Pass
11n-HT40	13.5	6	2437	24.13	≤ 30	Pass
11n-HT40	13.5	9	2452	24.21	≤ 30	Pass

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7.4. Power Spectral Density Measurement

7.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

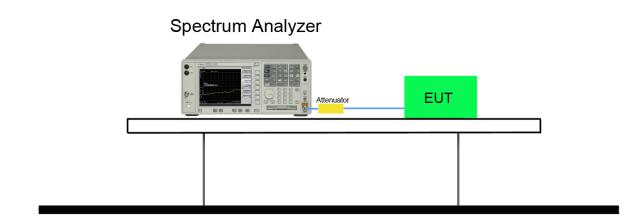
7.4.2. Test Procedure Used

KDB 558074 D01v03r02 - Section 10.2 Method PKPSD

7.4.3. Test Setting

- 1. Analyzer was set to the center frequency of the DTS channel under investigation
- 2. Span = 1.5 times the DTS channel bandwidth
- 3. RBW = 3kHz
- 4. VBW = 10kHz
- 5. Detector = peak
- 6. Sweep time = auto couple
- 7. Trace mode = max hold
- 8. Trace was allowed to stabilize

7.4.4. Test Setup

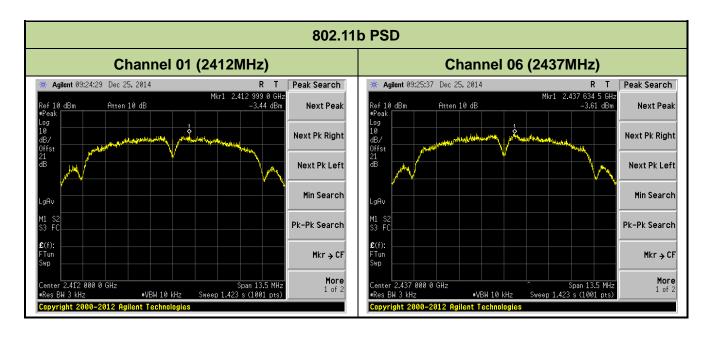


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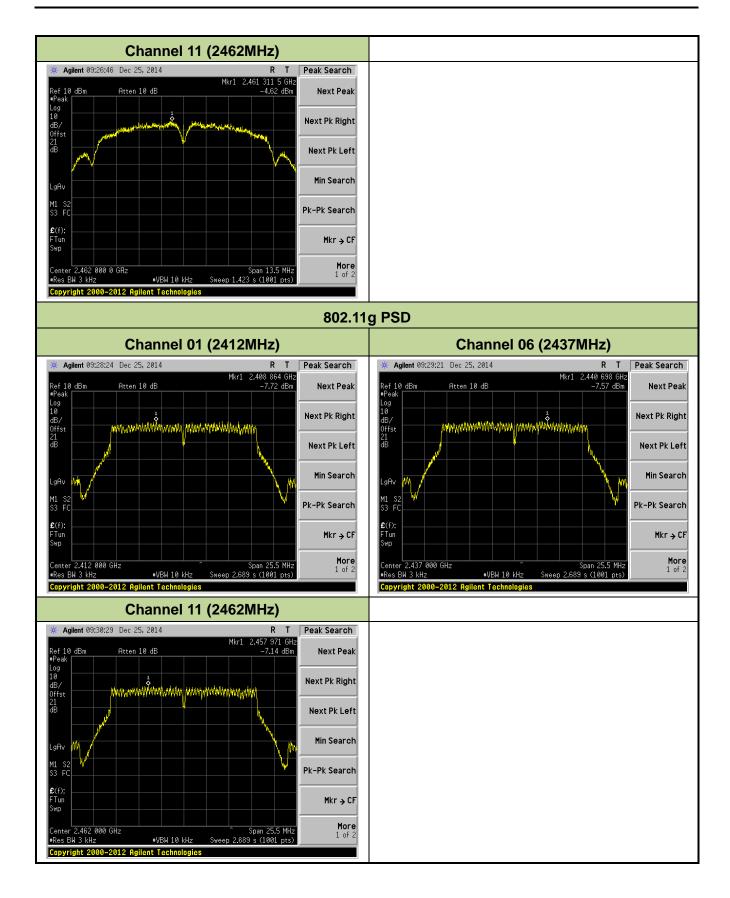
7.4.5. Test Result

Test Mode	Data Rate	Channel No.	Frequency	PSD Result	Limit	Result
	(Mbps)		(MHz)	(dBm / 3kHz)	(dBm / 3kHz)	
11b	1	1	2412	-3.44	≤ 8	Pass
11b	1	6	2437	-3.61	≤ 8	Pass
11b	1	11	2462	-4.62	≤ 8	Pass
11g	6	1	2412	-7.72	≤ 8	Pass
11g	6	6	2437	-7.57	≤ 8	Pass
11g	6	11	2462	-7.14	≤ 8	Pass
11n-HT20	6.5	1	2412	-10.19	≤ 8	Pass
11n-HT20	6.5	6	2437	-7.90	≤ 8	Pass
11n-HT20	6.5	11	2462	-9.67	≤ 8	Pass
11n-HT40	13.5	3	2422	-10.99	≤ 8	Pass
11n-HT40	13.5	6	2437	-12.55	≤ 8	Pass
11n-HT40	13.5	9	2452	-11.67	≤ 8	Pass

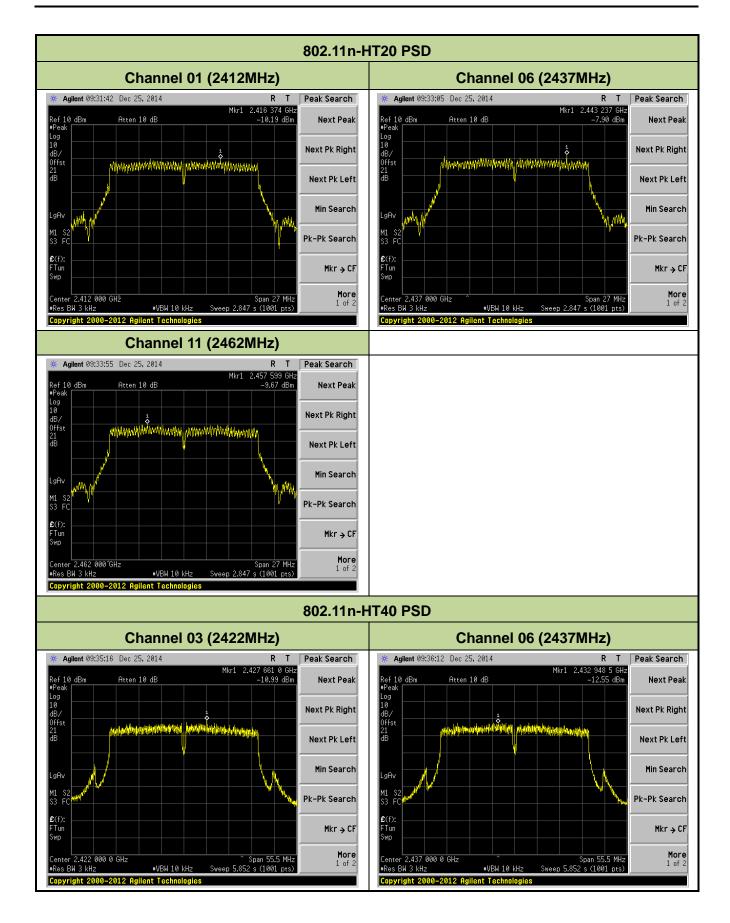


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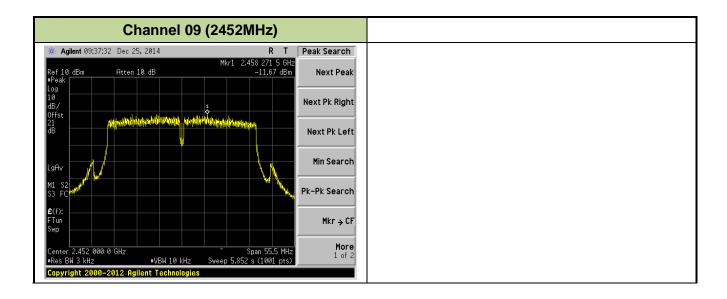














7.5. Conducted Band Edge and Out-of-Band Emissions

7.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure (Section 9.1).

7.5.2. Test Procedure Used

KDB 558074 D01v03r02 - Section 11.2 & Section 11.3

7.5.3. Test Settitng

1. Reference level measurement

- (a) Set instrument center frequency to DTS channel center frequency
- (b) Set the span to ≥ 1.5 times the DTS bandwidth
- (c) Set the RBW = 100 kHz
- (d) Set the VBW $\geq 3 \times RBW$
- (e) Detector = peak
- (f) Sweep time = auto couple
- (g) Trace mode = max hold
- (h) Allow trace to fully stabilize

2. Emission level measurement

- (a) Set the center frequency and span to encompass frequency range to be measured
- (b) RBW = 100kHz
- (c) VBW = 300kHz
- (d) Detector = Peak
- (e) Number of sweep points ≥ 2 x Span/RBW
- (f) Trace mode = max hold
- (g) Sweep time = auto couple

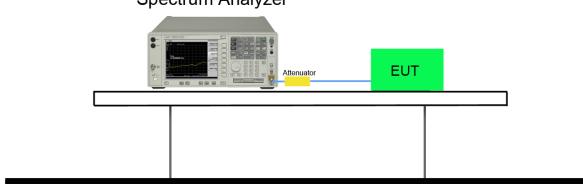
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(h) The trace was allowed to stabilize

7.5.4. Test Setup

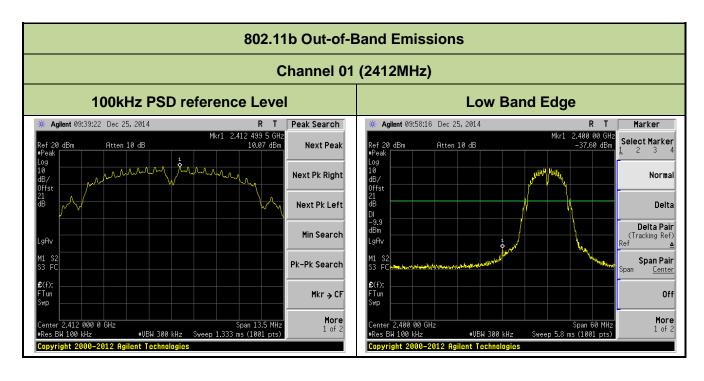






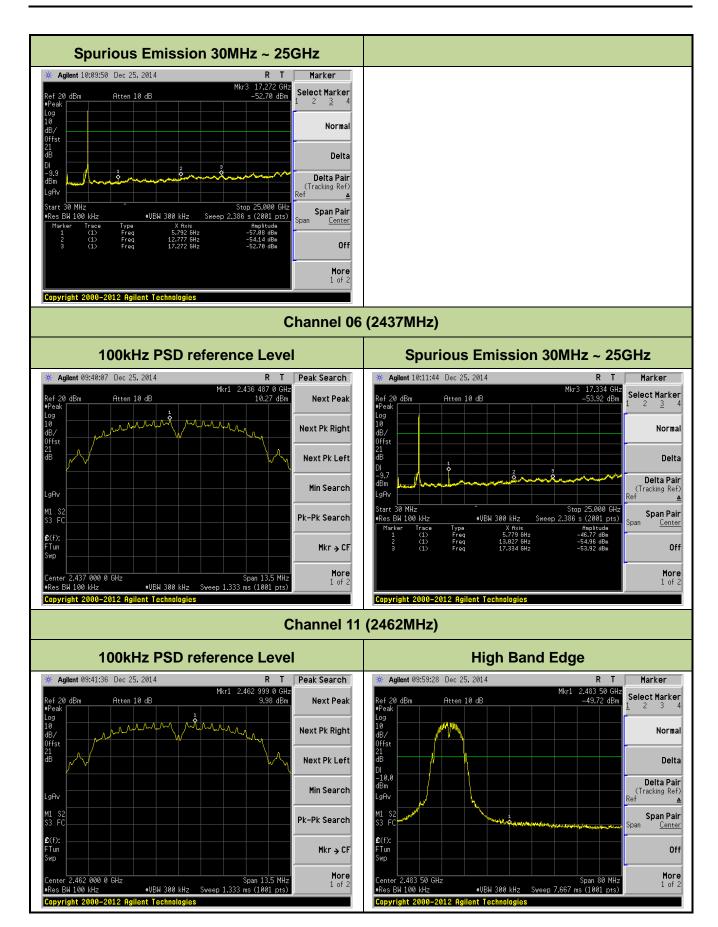
7.5.5. Test Result

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	Limit	Result
11b	1	01	2412	20dBc	Pass
11b	1	06	2437	20dBc	Pass
11b	1	11	2462	20dBc	Pass
11g	6	01	2412	20dBc	Pass
11g	6	06	2437	20dBc	Pass
11g	6	11	2462	20dBc	Pass
11n-HT20	6.5	1	2412	20dBc	Pass
11n-HT20	6.5	6	2437	20dBc	Pass
11n-HT20	6.5	11	2462	20dBc	Pass
11n-HT40	13.5	3	2422	20dBc	Pass
11n-HT40	13.5	6	2437	20dBc	Pass
11n-HT40	13.5	9	2452	20dBc	Pass

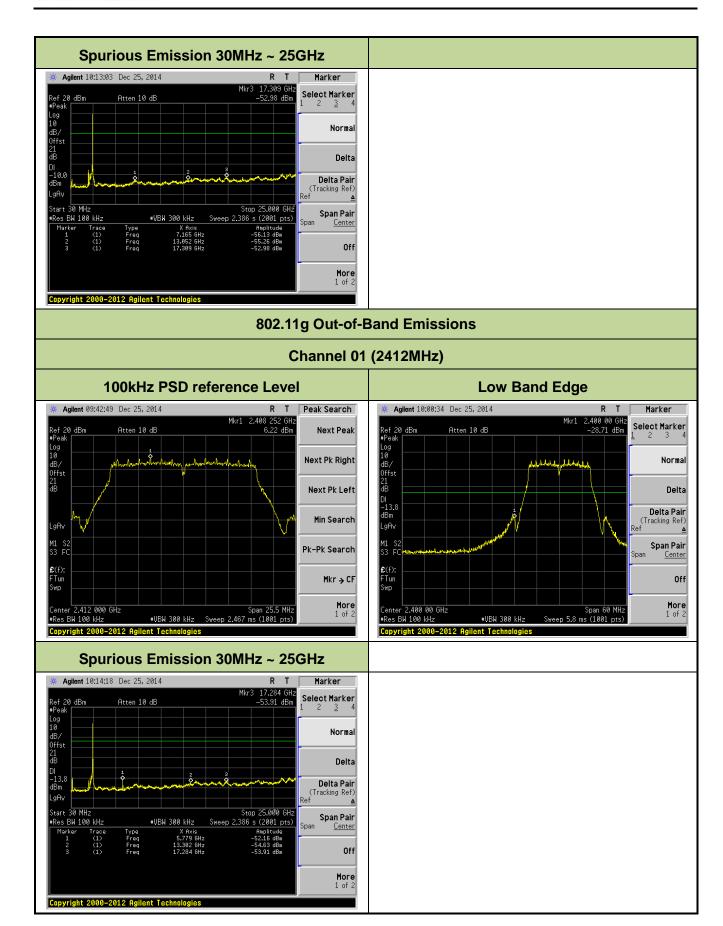


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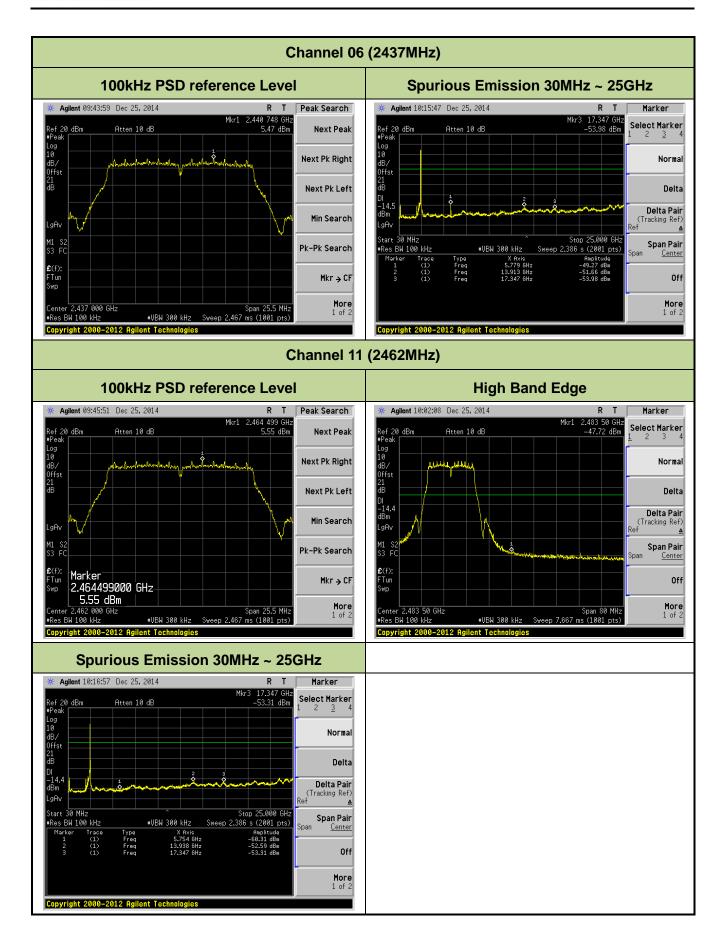




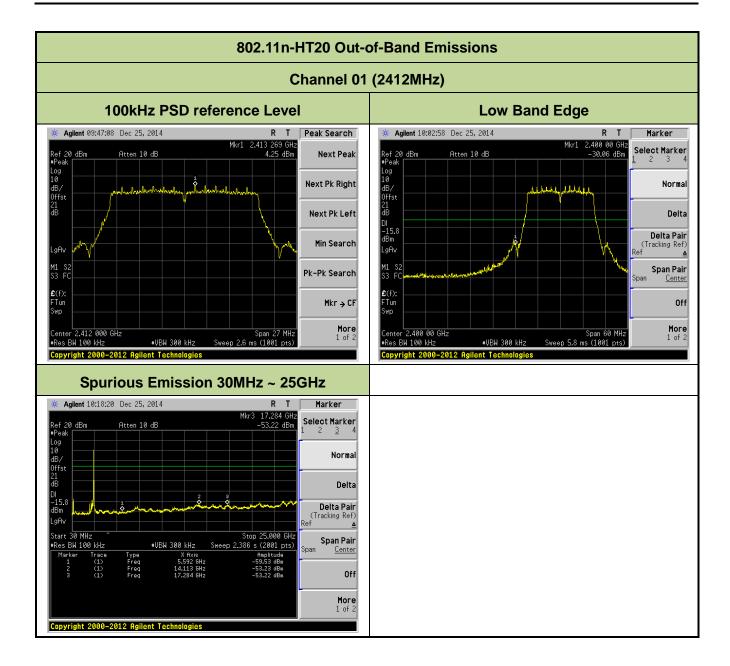




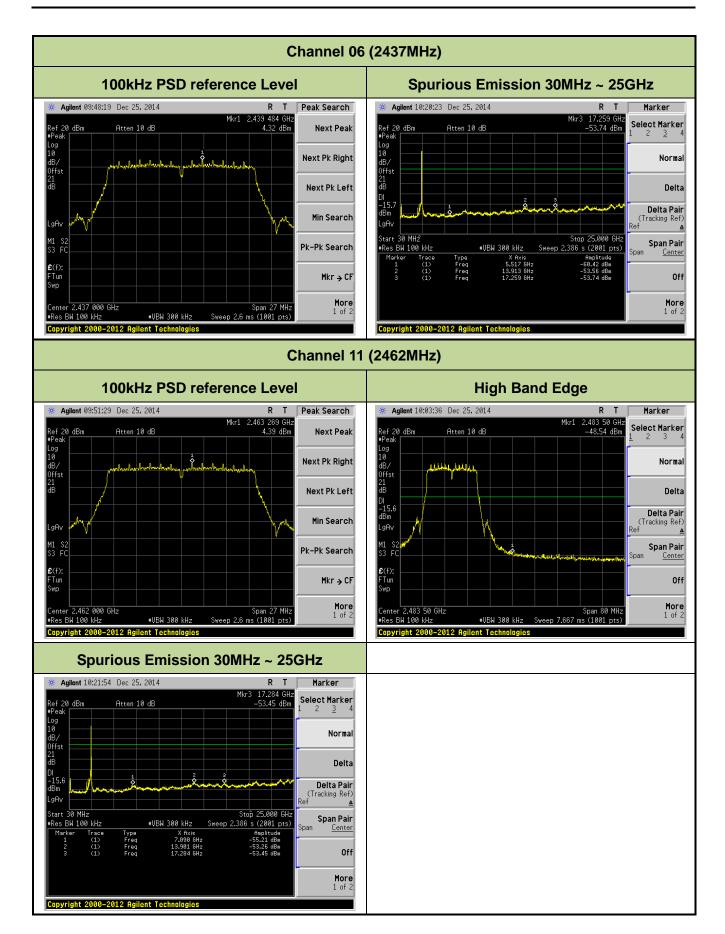




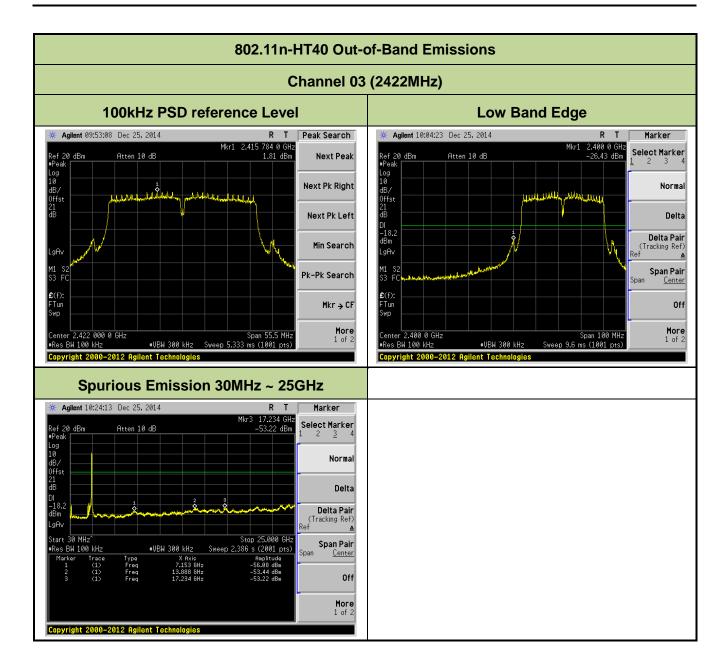




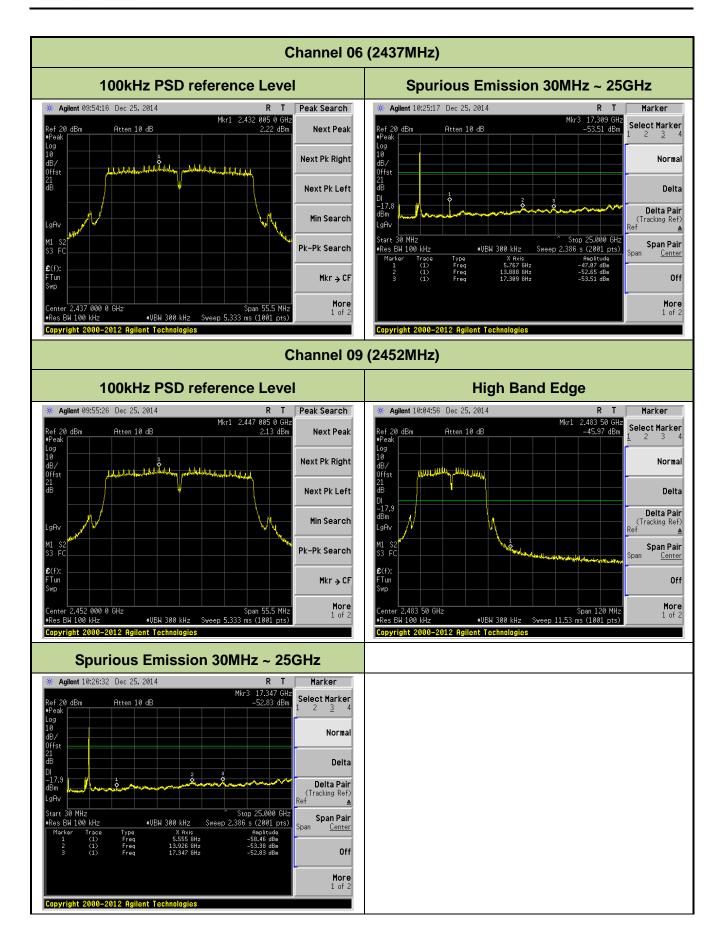












Report No.: 1412RSU02301



7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

F	FCC Part 15 Subpart C Paragraph 15.209						
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]					
0.009 - 0.490	2400/F (kHz)	300					
0.490 – 1.705	24000/F (kHz)	30					
1.705 - 30	30	30					
30 - 88	100	3					
88 - 216	150	3					
216 - 960	200	3					
Above 960	500	3					

7.6.2. Test Procedure Used

KDB 558074 D01v03r02 – Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v03r02 – Section 12.2.4 (peak power measurements)

KDB 558074 D01v03r02 – Section 12.2.5 (average power measurements)

7.6.3. Test Setting

Peak Field Strength Measurements per Section 12.2.4 of KDB 558074 D01v03r02

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = as specified in Table 1
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple

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- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

Table 1—RBW as a function of frequency

Frequency	RBW		
9 ~ 150 kHz	200 ~ 300 Hz		
0.15 ~ 30 MHz	9 ~ 10 kHz		
30 ~ 1000 MHz	100 ~ 120 kHz		
> 1000 MHz	1 MHz		

Average Field Strength Measurements per Section 12.2.5.1 of KDB 558074 D01v03r02

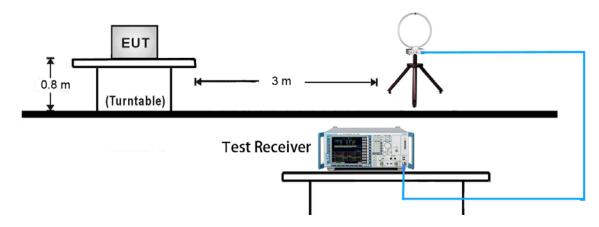
- 1. RBW = 1MHz.
- 2. VBW \geq 3 x RBW.
- 3. Detector = RMS, if span/(# of points in sweep) ≤ (RBW/2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- 4. Averaging type = power (*i.e.*, RMS).
 - As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- 5. Sweep time = auto.
- 6. Perform a trace average of at least 100 traces.

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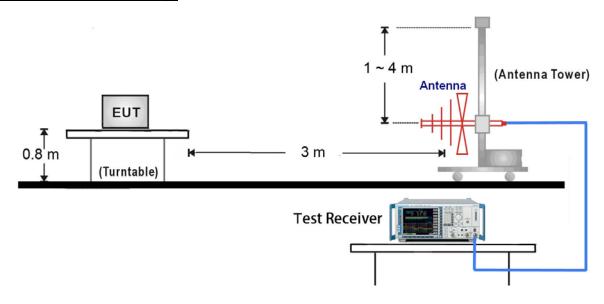


7.6.4. Test Setup

9kHz ~ 30MHz Test Setup:

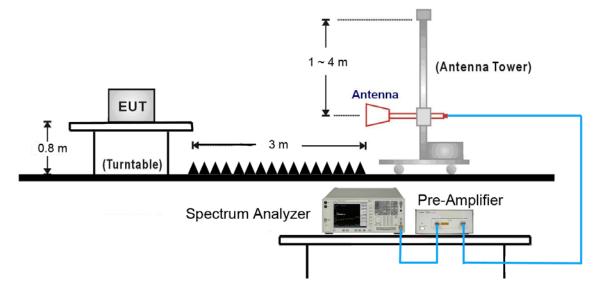


30MHz ~ 1GHz Test Setup:





1GHz ~ 25GHz Test Setup:



REMARK: The test channel 1/6/11of 802.11b/g/n-H20 mode and channel 3/6/9 of 11n-H40 mode have been tested, only worst case is reported.

For radiated emission testing within 30MHz-1GHz, 802.11b channel 1 is the worst case.

For radiated emission testing within 1GHz to 25GHz, 802.11b channel 1 is the worst case.

For radiated emission testing in restriction bands, 802.11g channel 1 and 802.11n-H40 channel 9 are worst case.



7.6.5. Test Result

Test Mode:	802.11b	Test Site:	AC1				
Test Channel:	01	Test Engineer:	Milo Li				
Remark:	Average measurement was not performed if peak level lower than average						
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in						
	the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
*	3126.0	43.9	-0.9	43.0	88.2	-45.2	Peak	Horizontal
*	4412.0	42.9	2.2	45.1	88.2	-43.1	Peak	Horizontal
	4824.0	43.2	3.5	46.7	74.0	-27.3	Peak	Horizontal
	7256.0	43.4	8.9	52.3	74.0	-21.7	Peak	Horizontal
*	3125.0	43.0	-0.9	42.1	88.2	-46.1	Peak	Vertical
*	4413.0	41.9	2.2	44.1	88.2	-44.1	Peak	Vertical
	4824.0	41.9	3.5	45.4	74.0	-28.6	Peak	Vertical
	7259.0	42.6	8.9	51.5	74.0	-22.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (108.2dBµV/m) or 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB).

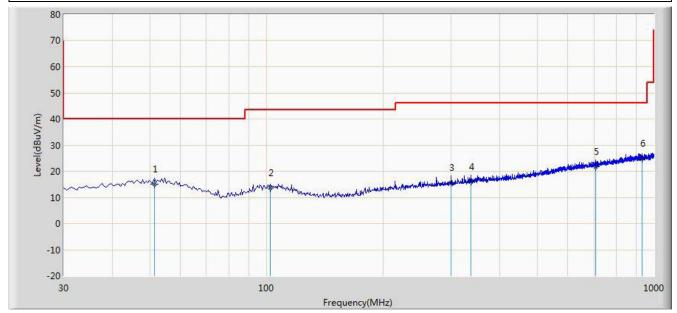
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

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The worst case of Radiated Emission below 1GHz:

Worse Case Mode: 802.11b at Channel 2412MHz				
EUT: WIFI MODULE	Power: Powered by PC			
Probe: VULB9162_0.03-8GHz	Polarity: Horizontal			
Limit: FCC_Part15.209_RE(3m)	Engineer: Knight Lu			
Site: AC1	Time: 2014/12/29 - 10:03			



No	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
		(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
			(dBuV/m)	(dBuV)				
1		51.340	15.135	0.250	-24.865	40.000	14.885	QP
2		102.265	13.696	0.540	-29.804	43.500	13.156	QP
3		300.145	15.539	1.025	-30.461	46.000	14.514	QP
4		337.490	15.933	0.397	-30.067	46.000	15.536	QP
5		707.545	21.774	0.202	-24.226	46.000	21.572	QP
6	*	933.070	24.854	0.650	-21.146	46.000	24.204	QP

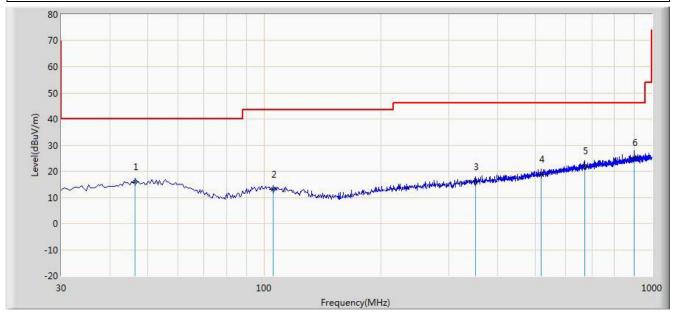
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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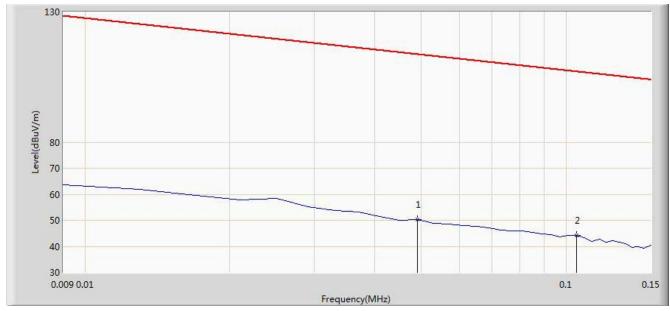
Site: AC1	Time: 2014/12/29 - 10:03			
Limit: FCC_Part15.209_RE(3m)	Engineer: Knight Lu			
Probe: VULB9162_0.03-8GHz	Polarity: Vertical			
EUT: WIFI MODULE	Power: Powered by PC			
Worse Case Mode: 802.11b at Channel 2412MHz				



No	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
		(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
			(dBuV/m)	(dBuV)				
1		46.490	15.994	1.032	-24.006	40.000	14.962	QP
2		105.560	13.078	0.022	-30.422	43.500	13.056	QP
3		350.110	16.032	0.255	-29.968	46.000	15.777	QP
4		517.425	18.734	0.254	-27.266	46.000	18.480	QP
5		670.682	21.981	1.035	-24.019	46.000	20.946	QP
6	*	900.575	25.227	1.244	-20.773	46.000	23.983	QP



Note: There is the ambient noise within frequency range 9kHz~30MHz.				
EUT: WIFI MODULE	Power: Powered by PC			
Probe: FMZB1519_0.009-30MHz	Polarity: Face On			
Limit: FCC_Part15.209_RE(3m)	Engineer: Knight Lu			
Site: AC1	Time: 2014/12/27 - 15:32			

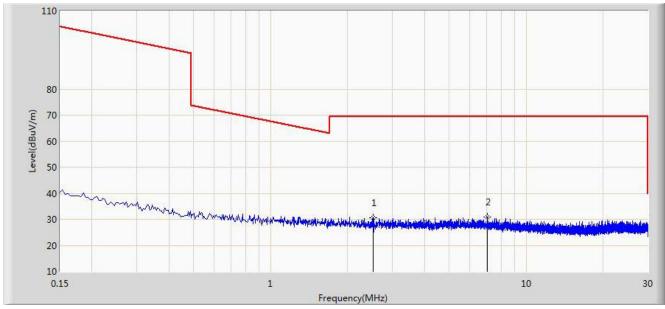


No	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
		(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
			(dBuV/m)	(dBuV)				
1		0.049	50.366	29.861	-63.789	114.155	20.505	Peak
2	*	0.105	44.143	23.996	-63.037	107.180	20.147	QP



Note: There is the embient using within framework and Old COMUS					
EUT: WIFI MODULE	Power: Powered by PC				
Probe: FMZB1519_0.009-30MHz	Polarity: Face On				
Limit: FCC_Part15.209_RE(3m)	Engineer: Knight Lu				
Site: AC1	Time: 2014/12/27 - 15:41				

Note: There is the ambient noise within frequency range 9kHz~30MHz.

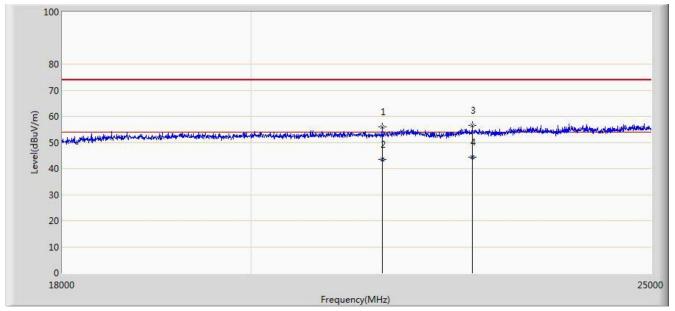


No	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
		(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
			(dBuV/m)	(dBuV)				
1		2.513	30.495	10.336	-39.005	69.500	20.159	QP
2	*	7.041	30.974	10.579	-38.526	69.500	20.395	QP

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)



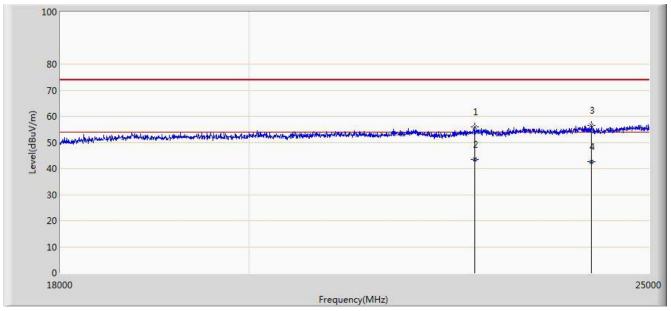
Note: There is the ambient noise within frequency range 18 ~ 25GHz				
EUT: WIFI MODULE	Power: Powered by PC			
Probe: BBHA9170_18-40GHz	Polarity: Horizontal			
Limit: FCC_Part15.209_RE(3m)	Engineer: Knight Lu			
Site: AC1	Time: 2014/12/27 - 15:45			



No	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
		(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
			(dBuV/m)	(dBuV)				
1		21517.500	55.869	17.883	-18.131	74.000	37.986	PK
2		21517.650	43.351	5.365	-10.649	54.000	37.986	AV
3		22630.500	56.509	18.223	-17.491	74.000	38.286	PK
4	*	22630.540	44.310	6.024	-9.690	54.000	38.286	AV



Note: There is the ambient noise within frequency range 18 ~ 25GHz				
EUT: WIFI MODULE	Power: Powered by PC			
Probe: BBHA9170_18-40GHz	Polarity: Vertical			
Limit: FCC_Part15.209_RE(3m)	Engineer: Knight Lu			
Site: AC1	Time: 2014/12/27 - 15:59			



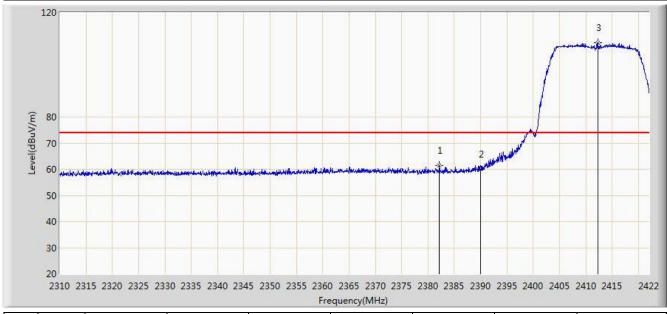
No	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
		(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
			(dBuV/m)	(dBuV)				
1		22686.500	55.811	17.457	-18.189	74.000	38.354	PK
2	*	22686.540	43.598	5.244	-10.402	54.000	38.354	AV
3		24205.500	56.430	17.607	-17.570	74.000	38.823	PK
4		24205.658	42.518	3.695	-11.482	54.000	38.823	AV



7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Result

Site: AC1	Time: 2014/12/26 - 13:58			
Limit: FCC_Part15.209_RE(3m)	Engineer: Knight Lu			
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal			
EUT: WIFI MODULE	Power: Powered by PC			
Worse Case Mode: 802.11g at channel 2412MHz				



No	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
		(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
			(dBuV/m)	(dBuV)				
1		2382.128	61.385	29.517	-12.615	74.000	31.868	PK
2		2390.000	59.912	28.056	-14.088	74.000	31.856	PK
3	*	2412.256	108.447	76.627	N/A	N/A	31.820	PK

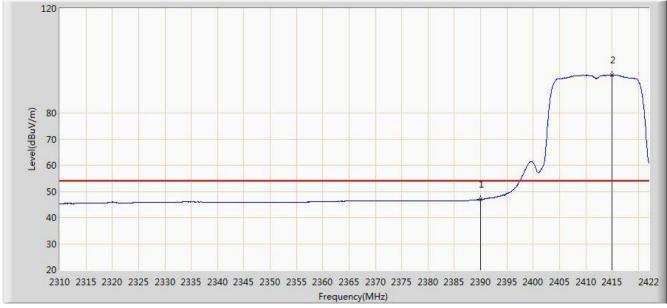
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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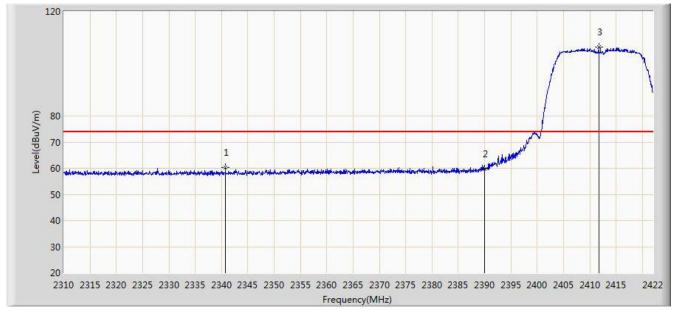
Worse Case Mode: 802.11g at channel 2412MHz	Power: Powered by PC
ELIT MUELMORULE	D D 11 DO
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
Limit: FCC_Part15.209_RE(3m)	Engineer: Knight Lu
Site: AC1	Time: 2014/12/27 - 17:50



No	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
		(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
			(dBuV/m)	(dBuV)				
1		2390.000	46.867	15.011	-7.133	54.000	31.856	AV
2	*	2415.000	94.548	62.732	N/A	N/A	31.816	AV



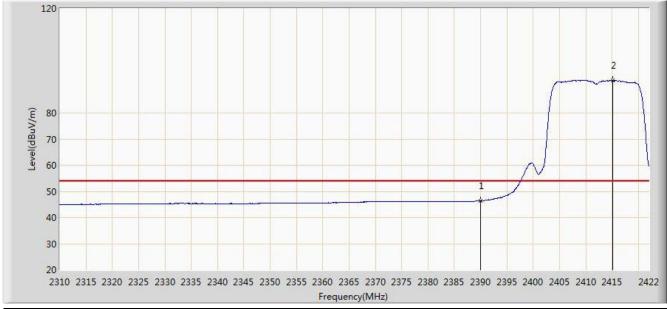
Worse Case Mode: 802.11g at channel 2412MHz				
EUT: WIFI MODULE	Power: Powered by PC			
Probe: BBHA9120D_1-18GHz	Polarity: Vertical			
Limit: FCC_Part15.209_RE(3m)	Engineer: Knight Lu			
Site: AC1	Time: 2014/12/27 - 17:50			



No	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
		(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
			(dBuV/m)	(dBuV)				
1		2340.744	60.343	28.381	-13.657	74.000	31.962	PK
2		2390.000	59.804	27.948	-14.196	74.000	31.856	PK
3	*	2411.696	106.419	74.598	N/A	N/A	31.822	PK



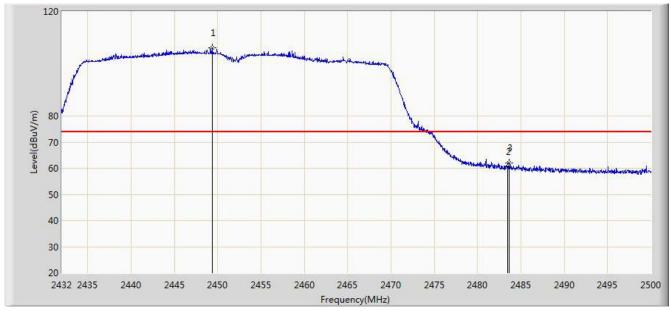
EUT: WIFI MODULE Worse Case Mode: 802.11g at channel 2412MHz	Power: Powered by PC
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
Limit: FCC_Part15.209_RE(3m)	Engineer: Knight Lu
Site: AC1	Time: 2014/12/27 - 17:53



No	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
		(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
			(dBuV/m)	(dBuV)				
1		2390.000	46.374	14.518	-7.626	54.000	31.856	AV
2	*	2415.056	92.527	60.711	N/A	N/A	31.816	AV



Site: AC1	Time: 2014/12/27 - 18:23			
Limit: FCC_Part15.209_RE(3m)	Engineer: Knight Lu			
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal			
EUT: WIFI MODULE Power: Powered by PC				
Worse Case Mode: 802.11n-HT40 at channel 2452MHz				



No	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
		(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
			(dBuV/m)	(dBuV)				
1	*	2449.374	105.973	74.201	N/A	N/A	31.772	PK
2		2483.500	60.650	28.802	-13.350	74.000	31.848	PK
3		2483.680	61.947	30.099	-12.053	74.000	31.848	PK



Site: AC1	Time: 2014/12/27 - 18:25			
Limit: FCC_Part15.209_RE(3m)	Engineer: Knight Lu			
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal			
EUT: WIFI MODULE Power: Powered by PC				
Worse Case Mode: 802.11n-HT40 at channel 2452MHz				

Level(dBuV/m) 2432 2435 Frequency(MHz)

No	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
		(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
			(dBuV/m)	(dBuV)				
1	*	2449.102	89.191	57.420	N/A	N/A	31.771	AV
2		2483.500	47.403	15.555	-6.597	54.000	31.848	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)



Site: AC1	Time: 2014/12/27 - 18:26			
Limit: FCC_Part15.209_RE(3m)	Engineer: Knight Lu			
Probe: BBHA9120D_1-18GHz	Polarity: Vertical			
EUT: WIFI MODULE Power: Powered by PC				
Worse Case Mode: 802.11n-HT40 at channel 2452MHz				

Level(dBuV/m) 2432 2435 Frequency(MHz)

No	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
		(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
			(dBuV/m)	(dBuV)				
1	*	2450.768	102.857	71.083	N/A	N/A	31.774	PK
2		2483.500	59.149	27.301	-14.851	74.000	31.848	PK

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)



Site: AC1	Time: 2014/12/27 - 18:28			
Limit: FCC_Part15.209_RE(3m)	Engineer: Knight Lu			
Probe: BBHA9120D_1-18GHz	Polarity: Vertical			
EUT: WIFI MODULE Power: Powered by PC				
Worse Case Mode: 802.11n-HT40 at channel 2452MHz				

Level(dBuV/m) 2432 2435 Frequency(MHz)

No	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
		(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
			(dBuV/m)	(dBuV)				
1	*	2448.354	85.739	53.969	N/A	N/A	31.770	AV
2		2483.500	45.995	14.147	-8.005	54.000	31.848	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)



7.8. AC Conducted Emissions Measurement

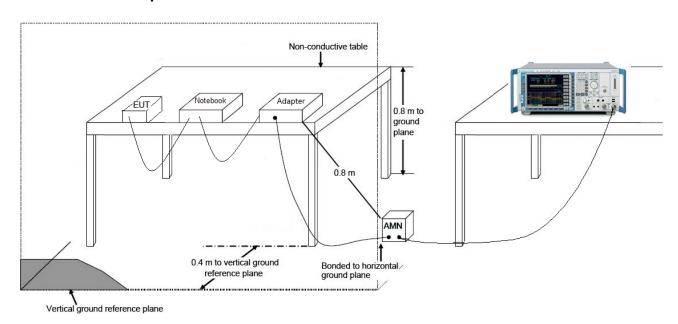
7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits						
Frequency (MHz)	QP (dBuV)	AV (dBuV)				
0.15 - 0.50	66 - 56	56 – 46				
0.50 - 5.0	56	46				
5.0 - 30	60	50				

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



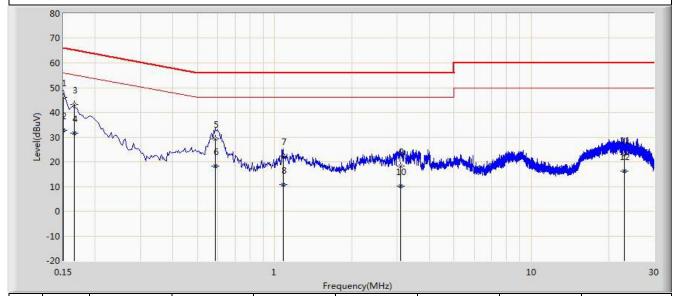
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7.8.3. Test Result

Site: SR2	Time: 2014/12/29 - 09:33
Limit: FCC_Part15.207_CE_AC Power	Engineer: Knight Lu
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: WIFI MODULE	Power: AC 120V/60Hz

Note: Mode1



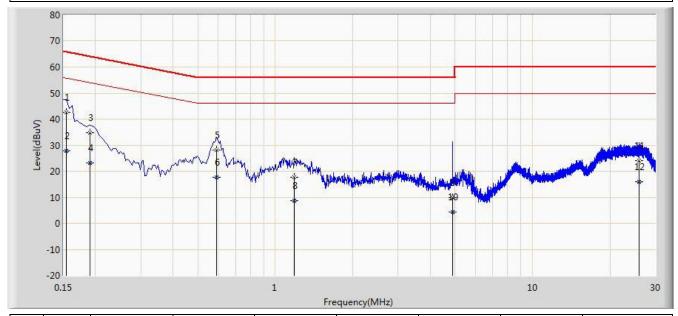
No	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
		(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
			(dBuV)	(dBuV)				
1	*	0.150	46.132	34.964	-19.868	66.000	11.168	QP
2		0.150	32.692	21.524	-23.308	56.000	11.168	AV
3		0.166	43.308	33.221	-21.850	65.158	10.087	QP
4		0.166	31.658	21.571	-23.500	55.158	10.087	AV
5		0.586	29.301	19.179	-26.699	56.000	10.122	QP
6		0.586	18.218	8.096	-27.782	46.000	10.122	AV
7		1.082	22.345	12.440	-33.655	56.000	9.905	QP
8		1.082	10.634	0.729	-35.366	46.000	9.905	AV
9		3.098	18.391	8.532	-37.609	56.000	9.859	QP
10		3.098	10.034	0.175	-35.966	46.000	9.859	AV
11		22.974	22.857	12.674	-37.143	60.000	10.183	QP
12		22.974	16.123	5.940	-33.877	50.000	10.183	AV

Note: Measure Level (dB μ V) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)



Site: SR2	Time: 2014/12/29 - 09:42
Site. SRZ	Time. 2014/12/29 - 09.42
Limit: FCC_Part15.207_CE_AC Power	Engineer: Knight Lu
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: WIFI MODULE	Power: AC 120V/60Hz
Note: Mode1	



No	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
		(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
			(dBuV)	(dBuV)				
1	*	0.154	42.657	31.941	-23.125	65.781	10.716	QP
2		0.154	27.780	17.064	-28.001	55.781	10.716	AV
3		0.190	34.785	24.757	-29.252	64.037	10.028	QP
4		0.190	23.296	13.268	-30.741	54.037	10.028	AV
5		0.590	28.169	18.032	-27.831	56.000	10.137	QP
6		0.590	17.800	7.663	-28.200	46.000	10.137	AV
7		1.186	17.752	7.849	-38.248	56.000	9.903	QP
8		1.186	8.770	-1.133	-37.230	46.000	9.903	AV
9		4.882	9.910	-0.125	-46.090	56.000	10.035	QP
10		4.882	4.207	-5.828	-41.793	46.000	10.035	AV
11		25.994	24.194	13.859	-35.806	60.000	10.335	QP
12		25.994	15.969	5.634	-34.031	50.000	10.335	AV

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)



8. CONCLUSION

The data collected relate only the item(s) tested and show that the WIFI MODULE FCC ID
2ADVXM5Q10-B is in compliance with Part 15C of the FCC Rules.

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——— The End