

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCIS14030010803

FCC REPORT (WIFI)

Applicant: REACH Tech (Xiamen) Co., Ltd.

Address of Applicant: RM.303, #18, Guanri Road, Software Park II, Xiamen,

361008, China

Equipment Under Test (EUT)

Product Name: MID

Model No.: EQ823R

FCC ID: Z5JREACH-EQ823R

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 12 Mar., 2014

Date of Test: 21 Mar., to 13 May., 2014

Date of report issued: 13 May., 2014

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.



2 Version

Report No: CCIS14030010803

Version No.	Date	Description
00	13 May.,2014	Original

Prepared by: Date: 13 May.,2014

Report Clerk

Reviewed by: 13 May.,2014

Project Engineer



3 Contents

			Page
1	CO/	VER PAGE	1
2	VER	RSION	2
3		NTENTS	
4		ST SUMMARY	
4			
5	GEN	NERAL INFORMATION	5
	5.1	CLIENT INFORMATION	5
	5.2	GENERAL DESCRIPTION OF E.U.T	
	5.3	TEST ENVIRONMENT AND MODE	
	5.4	LABORATORY FACILITY	
	5.5	LABORATORY LOCATION	7
	5.6	TEST INSTRUMENTS LIST	
6	TES	ST RESULTS AND MEASUREMENT DATA	9
	6.1	ANTENNA REQUIREMENT:	9
	6.2	CONDUCTED EMISSION	10
	6.3	CONDUCTED OUTPUT POWER	13
	6.4	OCCUPY BANDWIDTH	17
	6.5	POWER SPECTRAL DENSITY	24
	6.6	BAND EDGE	28
	6.6.		
	6.6.2		
	6.7	SPURIOUS EMISSION	
	6.7.		
	6.7.2	2 Radiated Emission Method	49
7	TES	ST SETUP PHOTO	71
8	EUT	CONSTRUCTIONAL DETAILS	72



4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Pass: The EUT complies with the essential requirements in the standard.



5 General Information

5.1 Client Information

Applicant:	REACH Tech (Xiamen) Co., Ltd.
Address of Applicant:	RM.303,#18,Guanri Road, Software Park II, Xiamen,361008, China
Manufacturer:	REACH Tech (Xiamen) Co., Ltd.
Address of Manufacturer:	RM.303,#18,Guanri Road, Software Park II, Xiamen,361008,China
Factory:	REACH Tech (Xiamen) Co., Ltd.
Address of Factory:	5/F,#51,Wanghai Road, Software Park II,Xiamen,361008, China

5.2 General Description of E.U.T.

Product Name:	MID	
Model No.:	EQ823R	
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20))	
Channel numbers:	11 for 802.11b/802.11g/802.11(H20)	
Channel separation:	5MHz	
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)	
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)	
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps	
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps	
Data speed (IEEE 802.11n):	Up to 150Mbps	
Antenna Type:	Internal Antenna	
Antenna gain:	-3.55 dBi	
AC adapter:	Model:SKL-5WU-U050-0700	
	Input:100-240V AC,50/60Hz 0.15A	
	Output:5.0V DC 700mA	
Power supply:	Rechargeable Li-ion Battery DC3.7V,4800mAh	



Operation Frequency each of channel For 802.11b/g/n(H20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/802.11n (H20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz



5.3 Test environment and mode

Operating Environment:				
Temperature:	24.0 °C			
Humidity:	54 % RH			
Atmospheric Pressure:	1010 mbar			
Test mode:				
Operation mode Keep the EUT in continuous transmitting with modulation				

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate	
802.11b	1Mbps	
802.11g	6Mbps	
802.11n(H20)	6.5Mbps	

Final Test Mode:

According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20). Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

5.4 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

■ IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.5 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282 Fax: +86-755-23116366

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China

Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366



5.6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	June 09 2013	June 08 2014
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	May 25 2013	May 24 2014
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 25 2013	May 24 2014
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
5	Coaxial Cable	CCIS	N/A	CCIS0016	Feb. 01 2014	Jan. 31 2015
6	Coaxial Cable	CCIS	N/A	CCIS0017	Feb. 01 2014	Jan. 31 2015
7	Coaxial cable	CCIS	N/A	CCIS0018	Feb. 01 2014	Jan. 31 2015
8	Coaxial Cable	CCIS	N/A	CCIS0019	Feb. 01 2014	Jan. 31 2015
9	Coaxial Cable	CCIS	N/A	CCIS0087	Feb. 01 2014	Jan. 31 2015
10	Amplifier(10kHz- 1.3GHz)	HP	8447D	CCIS0003	Feb. 01 2014	Feb. 31 2015
11	Amplifier(1GHz- 18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2013	June 08 2014
12	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Feb. 01 2014	Jan. 31 2015
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	Feb. 30 2014	Feb. 29 2014
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A
16	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	May. 25 2013	May. 24 2014
17	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Feb 01 2014	Feb. 31 2015
18	Loop antenna	Laplace instrument	RF300	EMC0701	Aug. 12 2013	Aug. 11 2014
19	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	May. 25 2013	May. 24 2014
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	May. 25 2013	May. 24 2014

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	June 09 2013	June 08 2014
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	May 25 2013	May 24 2014
3	LISN	CHASE	MN2050D	CCIS0074	Feb 01 2014	Jan. 31 2015
4	Coaxial Cable	CCIS	N/A	CCIS0086	Feb. 01 2014	Jan. 31 2015
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A



6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is -3.55 dBi.





6.2 Conducted Emission

Test Requirement:	FCC Part15 C Section 15.207	,					
Test Method:	ANSI C63.4: 2003						
Test Frequency Range:	150 kHz to 30 MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9 kHz, VBW=30 kHz						
Limit:	1	Limit (c	dBuV)				
2	Frequency range (MHz)	Quasi-peak	Average				
	0.15-0.5						
	0.5-5	56	46				
	* Decreases with the logarithm	60	50				
Test procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement. 						
Test setup:	LISN 40cm		er — AC power				
Test Instruments:	Refer to section 5.6 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Passed	•					
100110001101	. 2000						

Measurement Data

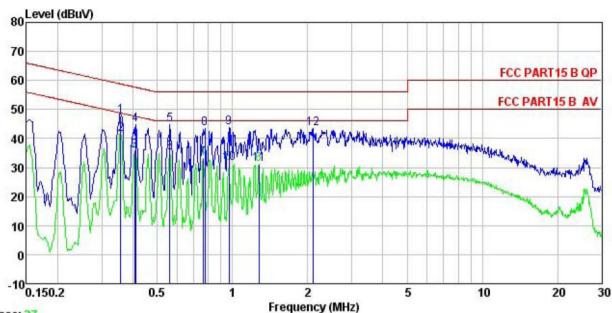
Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

Project No.: CCIS140300108RF

Page 10 of 72



Neutral:



Trace: 27

: CCIS Conducted test Site : FCC PART15 B QP LISN NEUTRAL Site Condition

: 108RF Job No. EUT : MID : EQ823R Model

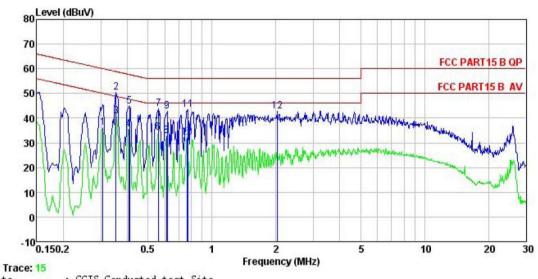
model : E4023K
Test Mode : Wifi Mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: Vincent
Remark

Remark

TOMALK	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∀	dB	āB	dBu₹	dBu∜	<u>d</u> B	
1	0.358	36.90	0.25	10.73	47.88		-10.90	
2	0.358	30.54	0.25	10.73	41.52	48.78	-7.26	Average
3	0.406	24.76	0.25	10.72	35.73			Average
1 2 3 4 5 6 7 8 9	0.410	33.76	0.25	10.72	44.73	57.64	-12.91	QP
5	0.561	33.66	0.25	10.77	44.68	56.00	-11.32	QP
6	0.561	24.25	0.25	10.77	35.27	46.00	-10.73	Average
7	0.763	22.14	0.19	10.80	33.13	46.00	-12.87	Average
8	0.775	32.46	0.19	10.80	43.45	56.00	-12.55	QP
9	0.968	32.63	0.22	10.86	43.71	56.00	-12.29	QP
10	0.968	20.42	0.22	10.86	31.50	46.00	-14.50	Average
11	1.276	19.90	0.24	10.90	31.04	46.00	-14.96	Average
12	2.099	32.10	0.29	10.96	43.35		-12.65	



Line:



CCIS Conducted test Site FCC PART15 B QP LISN LINE 108RF MID Site Condition

Job No. EUT Model Test Mode EQ823R Wifi Mode

Power Rating: AC 120V/60Hz Environment: Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Vincent

Remark	:							
		Read	LISN	Cable		Limit	Over	
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBu∜	<u>dB</u>	dB	dBu₹	dBu∀	<u>dB</u>	
1	0.307	25. 24	0.26	10.74	36.24	50.06	-13.82	Average
2	0.354	39.39	0.27	10.73	50.39	58.87	-8.48	QP
3	0.354	29.85	0.27	10.73	40.85	48.87	-8.02	Average
2 3 4 5 6 7	0.406	24.40	0.28	10.72	35.40	47.73	-12.33	Average
5	0.410	33.74	0.28	10.72	44.74	57.64	-12.90	QP
6	0.558	23.28	0.27	10.77	34.32	46.00	-11.68	Average
7	0.561	32.74	0.27	10.77	43.78	56.00	-12.22	QP
8 9	0.611	21.90	0.25	10.77	32.92	46.00	-13.08	Average
9	0.617	31.85	0.25	10.77	42.87	56.00	-13.13	QP
10	0.763	21.23	0.23	10.80	32.26	46.00	-13.74	Average
11	0.771	32.40	0.23	10.80	43.43	56.00	-12.57	QP
12	2.033	31.43	0.26	10.96	42.65		-13.35	

Notes:

- 1. An initial pre-scan was performed on the live and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss



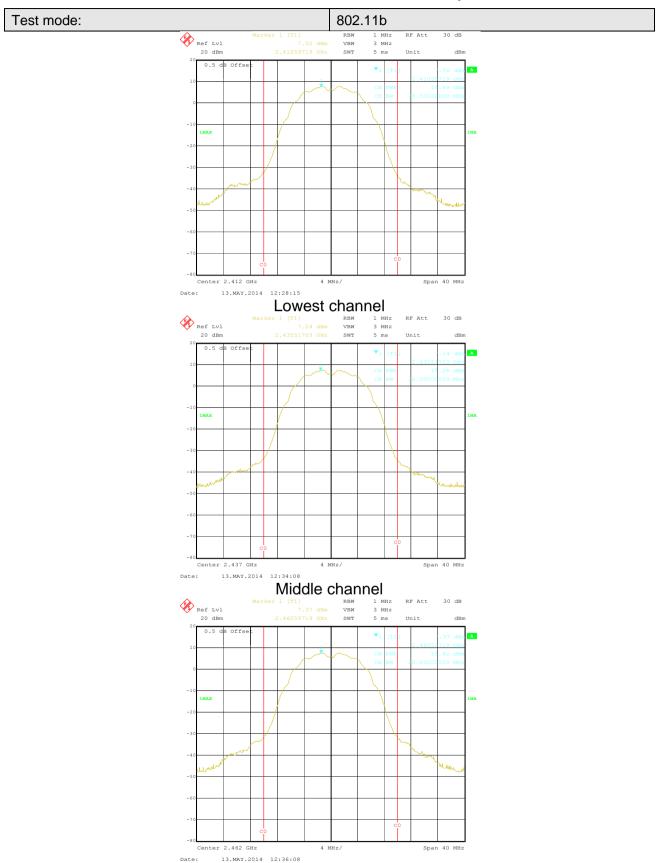
6.3 Conducted Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)						
Test Method:	ANSI C63.4: 2003 and KDB558074						
Limit:	30dBm						
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 5.6 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Passed						
Remark:	Test method refer to KDB558074 (DTS Measure Guidance) section 9.2						

Measurement Data

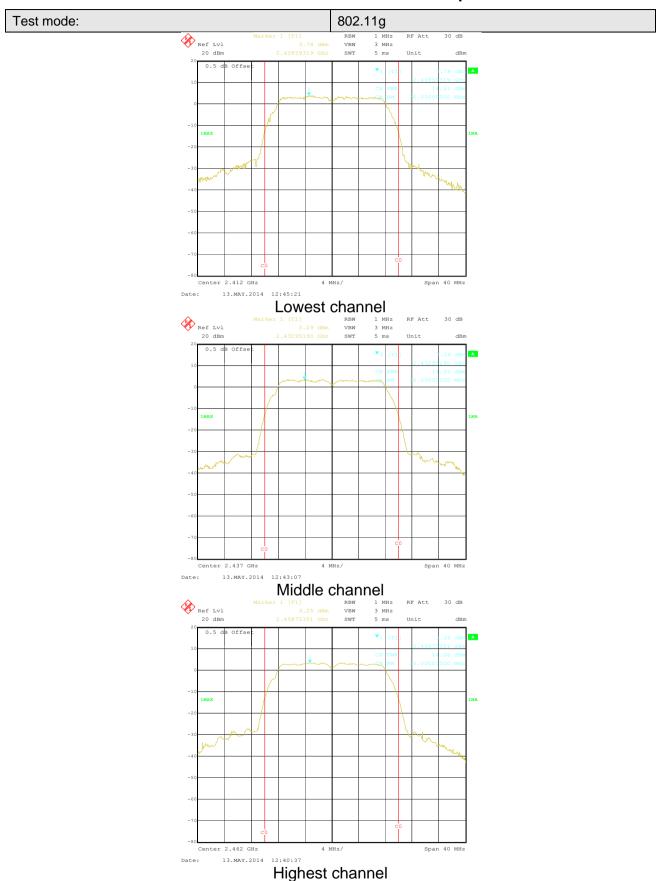
T O	Maximum	(15)	Result			
Test CH	802.11b	Limit (dBm)				
Lowest	15.49	14.31	13.22			
Middle	15.28	14.33	13.26	30.00	Pass	
Highest	15.42	14.26	13.10			



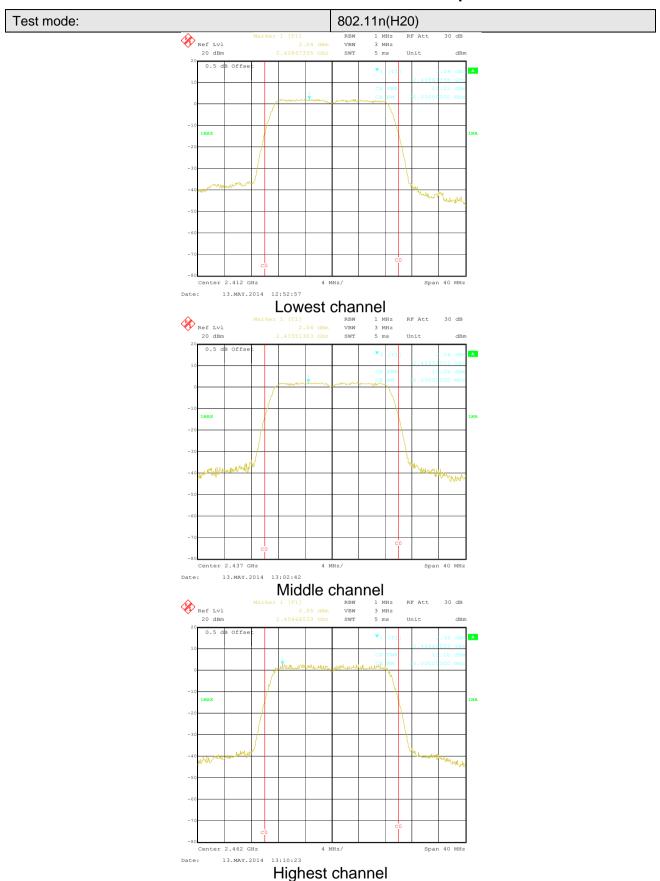


Highest channel











6.4 Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)						
Test Method:	ANSI C63.4:2003 and KDB558074						
Limit:	>500kHz						
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 5.6 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Passed						

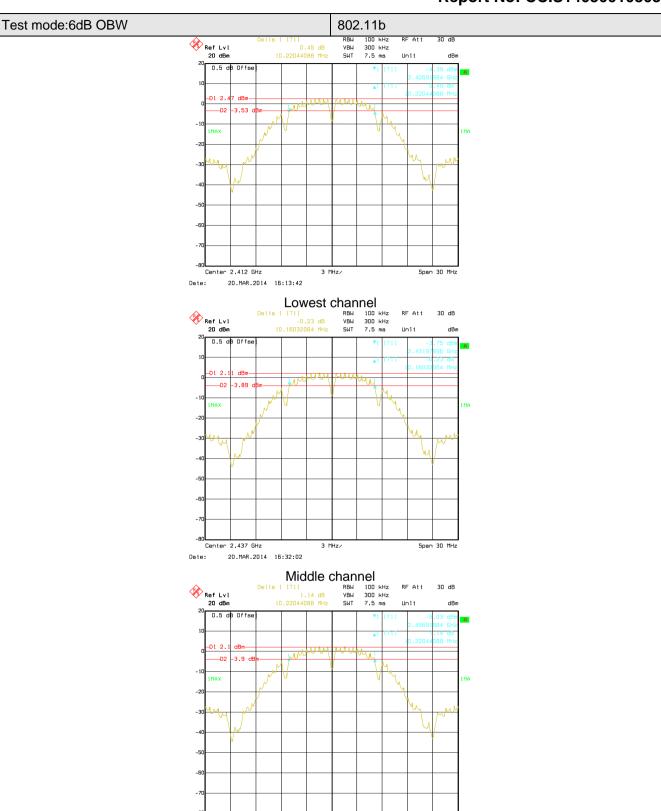
Measurement Data

	6dB		Result		
Test CH	802.11b	Limit(kHz)			
Lowest	10.22	16.41	16.65		
Middle	10.16 16.41		16.59	>500	Pass
Highest	10.22	16.35	16.65		

-	99%	Limit(kHz)	D 1			
Test CH	802.11b 802.11g 802.11n(H20)				Result	
Lowest	14.61	16.95	16.59			
Middle	14.55	14.55 16.95 16.53		N/A	N/A	
Highest	14.67	17.01	16.59			

Test plot as follows:



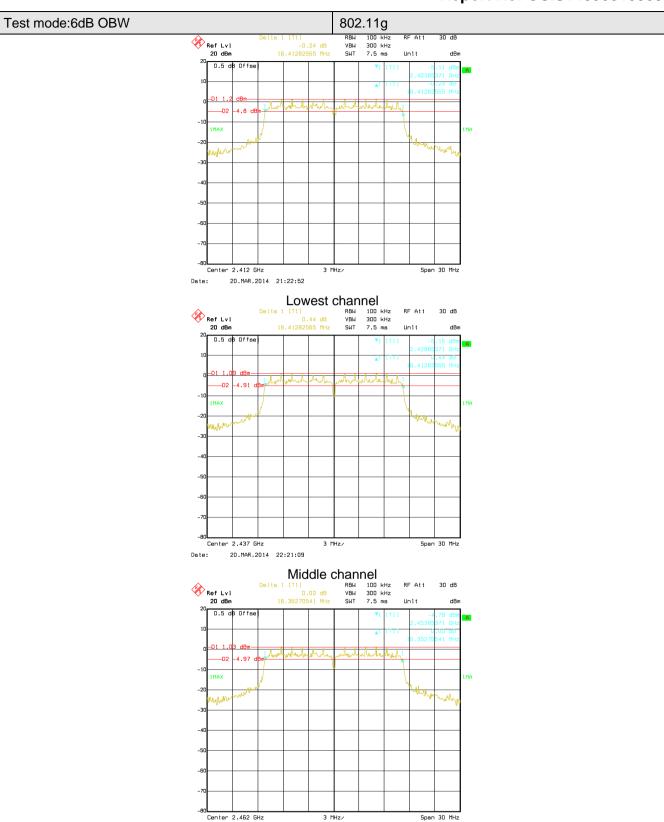


Span 30 MHz

Center 2.462 GHz

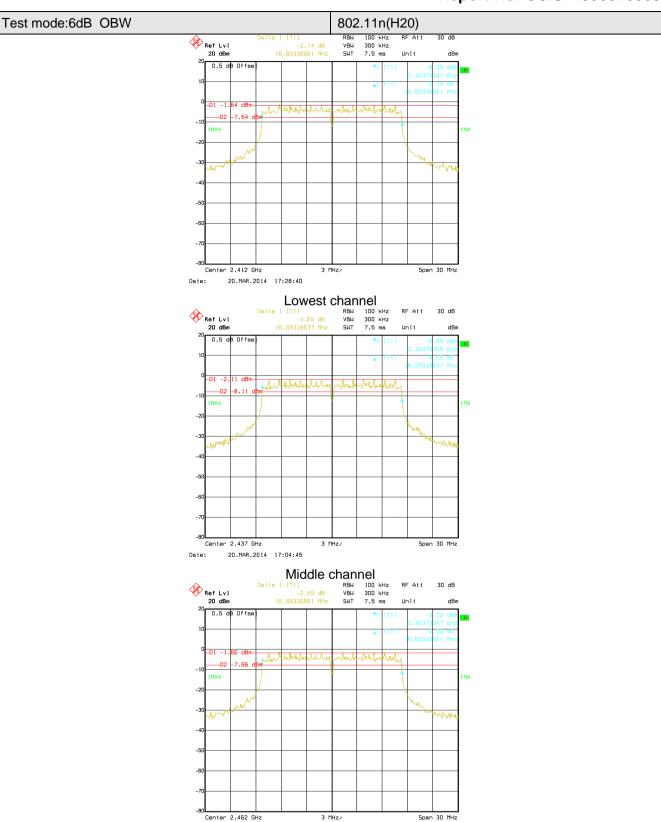
20.MAR.2014 16:42:26





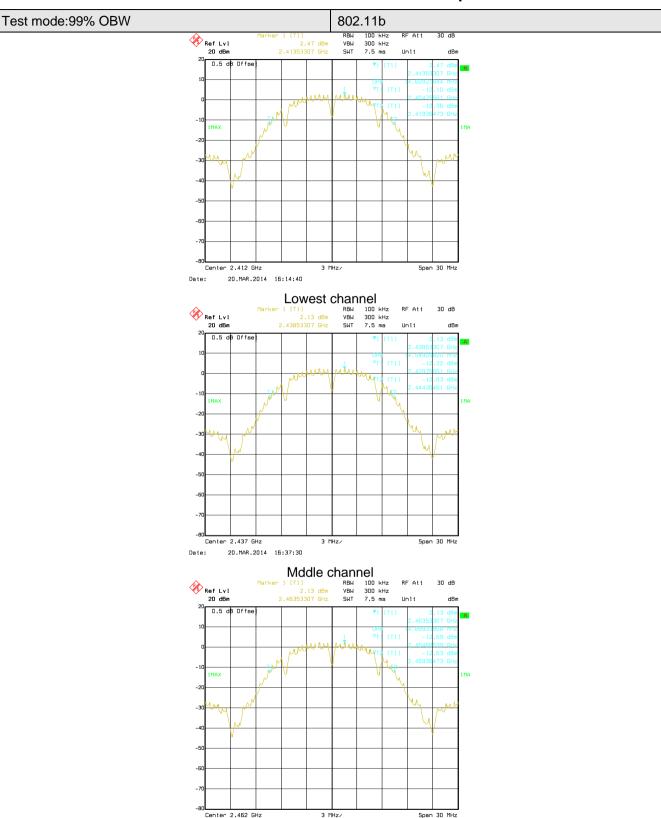
20.MAR.2014 22:43:40





20.MAR.2014 16:54:51

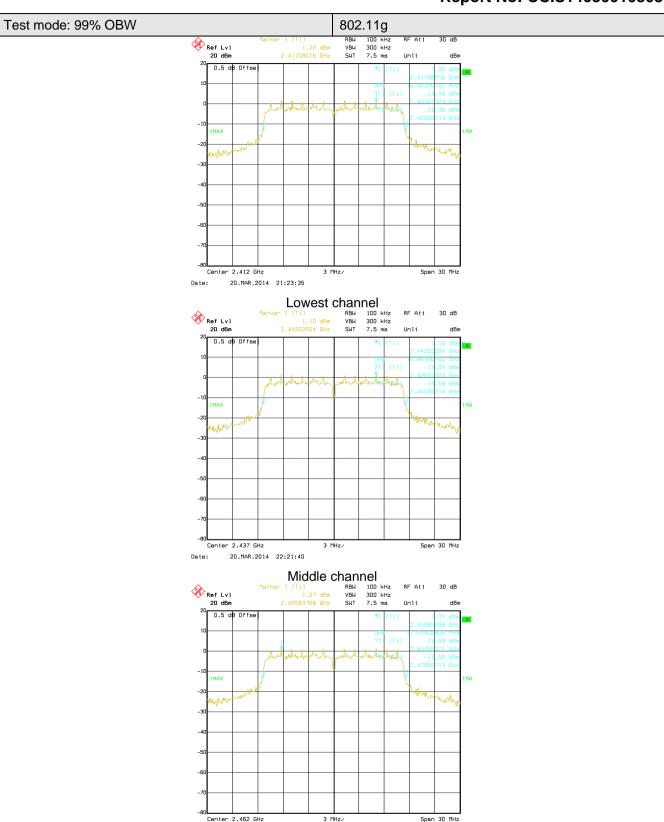




20.MAR.2014 16:42:52

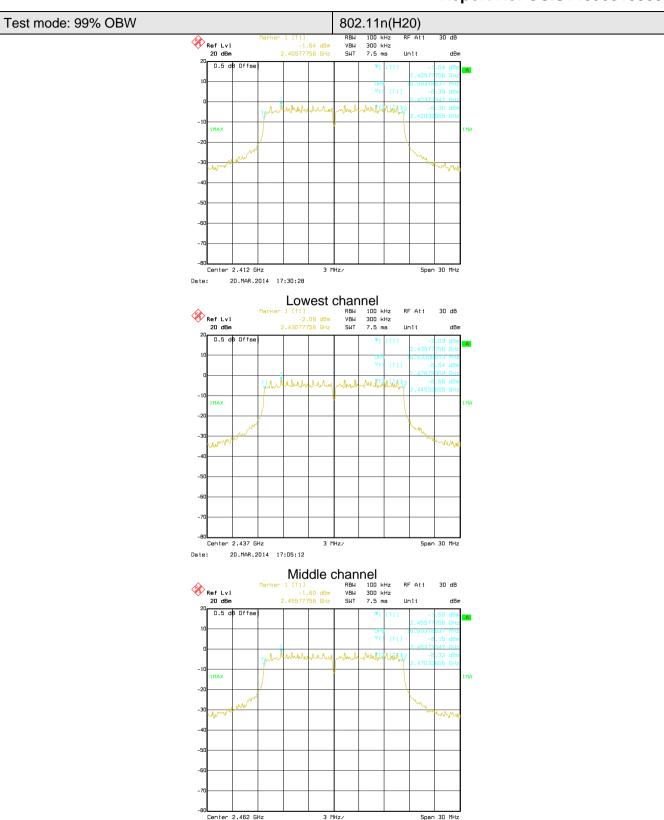
Highest channel





20.MAR.2014 22:44:32





20.MAR.2014 16:57:49



6.5 Power Spectral Density

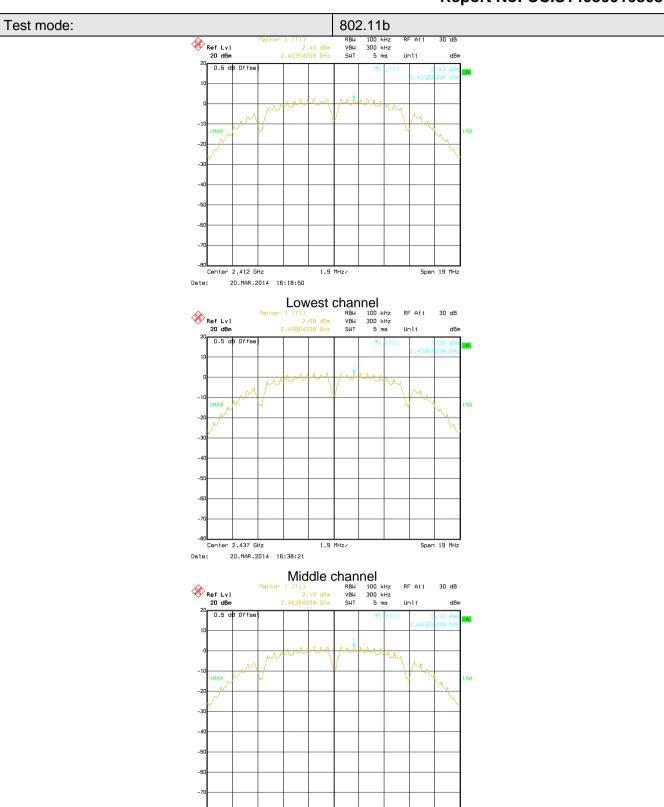
Test Requirement:	FCC Part15 C Section 15.247 (e)					
Test Method:	ANSI C63.4:2003 and KDB558074					
Limit:	8dBm					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.6 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

Measurement Data

T O	Pow	er Spectral Density				
Test CH	802.11b	Limit(dBm)	Result			
Lowest	2.43	1.19	-1.21			
Middle	2.08	1.01	-2.06	8.00	Pass	
Highest	2.10	1.13	-1.61			

Test plot as follows:



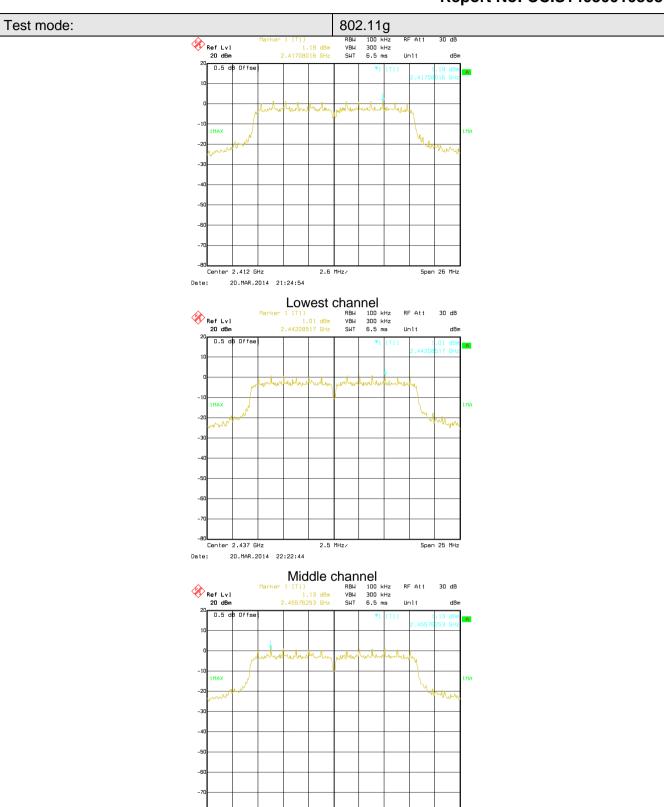


Span 19 MHz

Center 2.462 GHz

20.MAR.2014 16:45:43



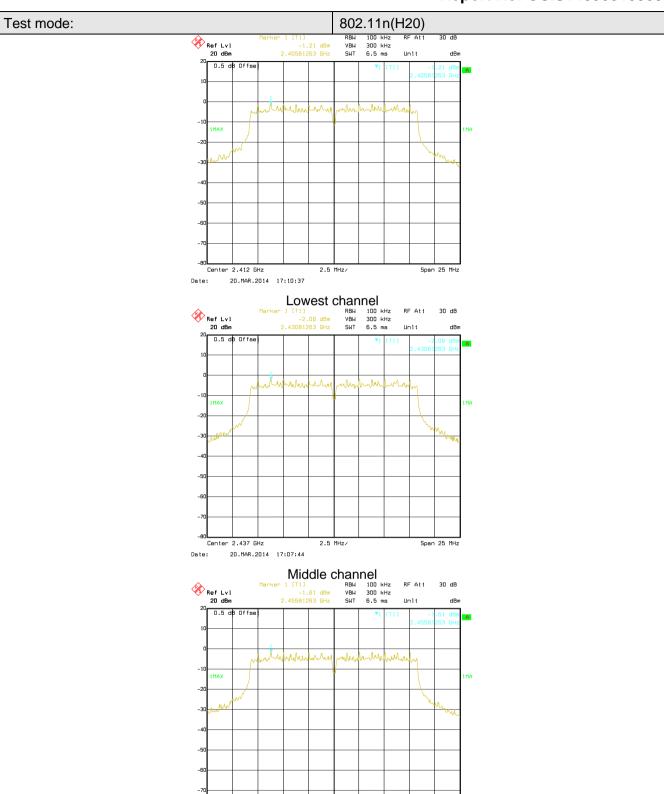


Span 25 MHz

Center 2.462 GHz

20.MAR.2014 22:26:26





Span 25 MHz

Date:

Center 2.462 GHz

20.MAR.2014 16:58:34



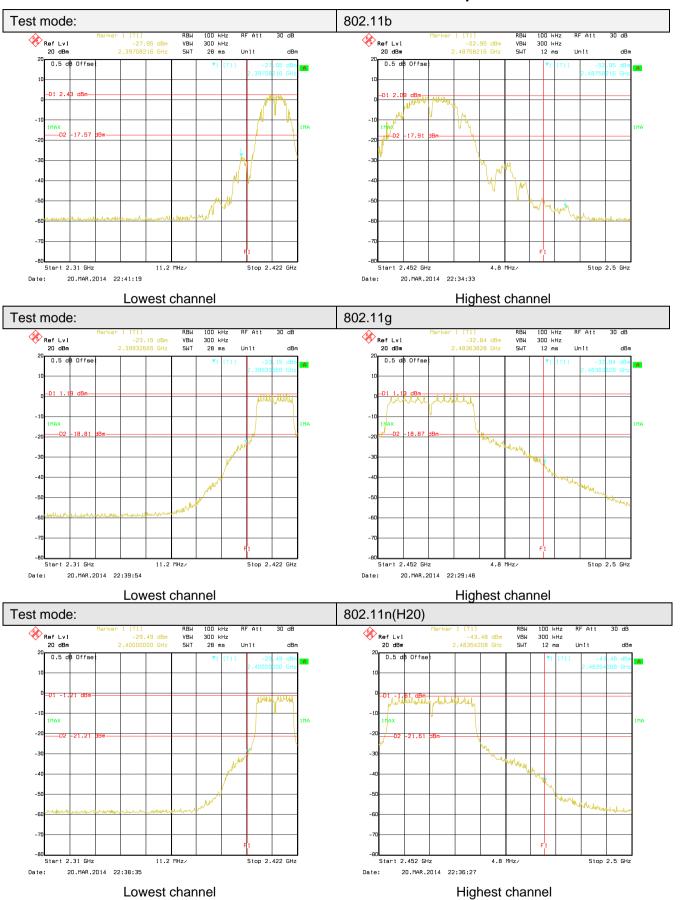
6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.4:2003 and KDB558074					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.6 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

Test plot as follows:







6.6.2 Radiated Emission Method

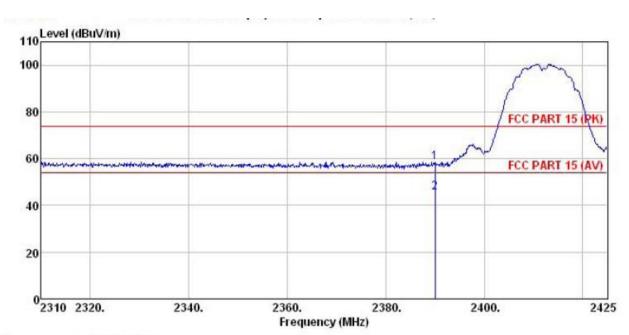
Test Requirement:	FCC Part15 C Section 15.209 and 15.205							
Test Method:	ANSI C63.4: 2003							
Test Frequency Range:	2.3GHz to 2.5GHz							
Test site:	Measurement D	istance: 3m						
Receiver setup:								
	Frequency	Detector	RBW	VBW	Remark			
	Above 1GHz	Peak	1MHz	3MHz	Peak Value			
I time the		Peak	1MHz	10Hz	Average Value			
Limit:	Freque	encv	Limit (dBuV/	/m @3m)	Remark			
			54.0		Average Value			
	Above 1		74.0		Peak Value			
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi- 							
Test setup:	Sheet. Antenna Tower Horn Antenna Spectrum Analyzer Amplifier Amplifier							
Test Instruments:	Refer to section							
Test mode:	Refer to section	5.3 for details						
Test results:	Passed							



802.11b

Test channel: Lowest

Horizontal:



Site : 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL

EUT : MID
Model : EQ823R
Test mode : Wifi B-L MODE
Power Rating : AC120V/60Hz

Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Vincent

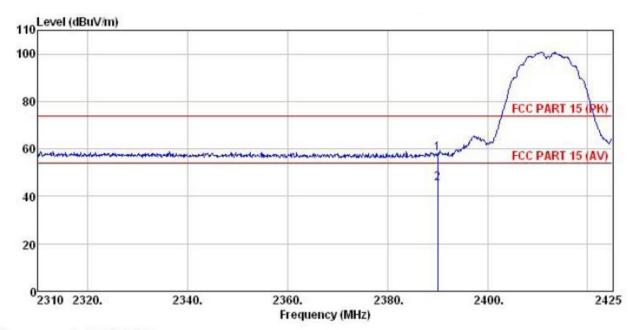
REMARK

	Freq		Antenna Factor						
	MHz	dBu∜	dB/m	dB	dB	dBuV/m	dBuV/m	<u>dB</u>	
1 2	2390.000 2390.000					58.39 45.53			Peak Average

Page 31 of 72



Vertical:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL Condition

EUT : MID

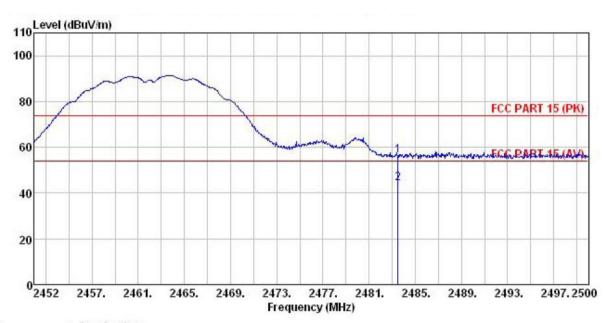
Test mode : Wifi B-L MODE
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Wincent
REMARK : Model

TAME		D J	A	C-11-	D		Tomba	A	
	Freq	Level	Antenna Factor	Loss	Factor	Level	Limit	Limit	Remark
-	MHz	dBu∜	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	24.87	27.58	5.67	0.00	58.12	74.00	-15.88	Peak
2	2390,000	12.15	27.58	5.67	0.00	45.40	54.00	-8.60	Average



Test channel: Highest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

EUT : MID

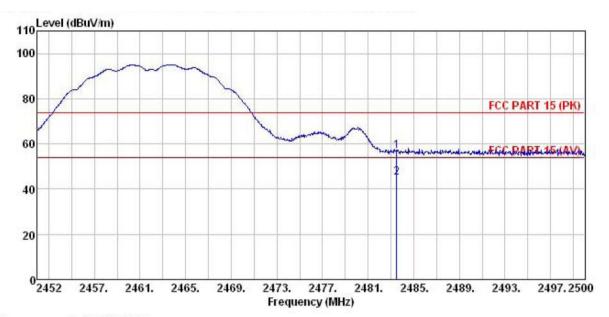
Model : EQ823R
Test mode : Wifi B-H MODE
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Vincent
REMARK

REMARK

.nunu			Antenna						
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Kemark
	MHz	dBu₹	dB/m	₫B	dB	dBuV/m	dBuV/m	dB	
1 2	2483.500 2483.500					56.51 44.40			



Vertical:



Site Condition EUT

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL : MID

: EQ823R
Test mode : Wifi B-H MODE
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Vincent
REMARK :

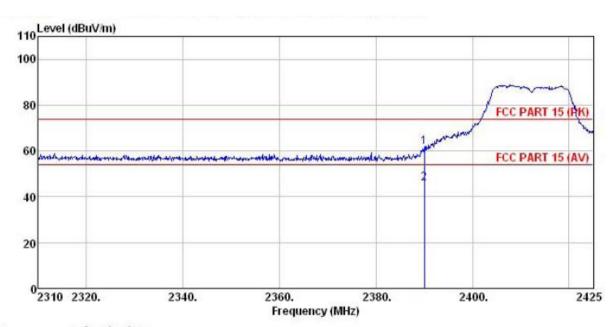
	Freq		Antenna Factor dB/m	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∀							
1 2	2483.500 2483.500								



802.11g

Test channel: Lowest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

EUT : MID

. EQ823R
Test mode : Wifi G-L MODE
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Vincent
REMARK :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
-	MHz	dBu∜	$\overline{dB/m}$	dB	dB	dBuV/m	dBuV/m	dB	
	2390.000 2390.000								