

APPLICATION FOR CERTIFICATION

On Behalf of

LG Electronics Inc.

Notebook PC

Model No. : LGX30

FCC ID : BEJ9QK-LGX30G02

Brand : LG

Prepared for : LG Electronics Inc.

19-1, Cheongho-Ri, Jinway-Myun,
Pyungtaik-Shi, Kyunggi-Do,
451-713 Korea, Republic of

Prepared by : AUDIX Technology Corporation

EMC Department
No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
Taipei Hsien, Taiwan

Tel : (02) 2609-9301, 2609-2133

Fax: (02) 2609-9303

File Number : EM982313B

Report Number : EM-F980914

Date of Test : Nov. 12 ~ Dec. 10, 2009

Date of Report : Dec. 10, 2009

TABLE OF CONTENTS

Description	Page
TEST REPORT CERTIFICATION	4
1. GENERAL INFORMATION	5
1.1. Description of Device (EUT).....	5
1.2. Data Rate Relative to Output Power.....	6
1.3. Test Configuration for Each Test Item	8
1.4. Tested Supporting System Details	8
1.5. Description of Test Facility	9
1.6. Measurement Uncertainty	9
2. CONDUCTED EMISSION MEASUREMENT	10
2.1. Test Equipment.....	10
2.2. Block Diagram of Test Setup.....	10
2.3. Conducted Emission Limits (§15.207)	10
2.4. Operating Condition of EUT	11
2.5. Test Procedure	11
2.6. Conducted Emission Measurement Results.....	11
3. RADIATED EMISSION MEASUREMENT	14
3.1. Test Equipment.....	14
3.2. Test Setup	14
3.3. Radiated Emission Limits (§15.209)	16
3.4. Operating Condition of EUT	16
3.5. Test Procedure	17
3.6. Test Results.....	18
4. 6dB BANDWIDTH MEASUREMENT	84
4.1. Test Equipment.....	84
4.2. Block Diagram of Test Setup.....	84
4.3. Specification Limits (§15.247(a)(2))	84
4.4. Operating Condition of EUT	84
4.5. Test Procedure	84
4.6. Test Results.....	85
5. MAXIMUM PEAK OUTPUT POWER MEASUREMENT	92
5.1. Test Equipment.....	92
5.2. Block Diagram of Test Setup.....	92
5.3. Specification Limits (§15.247(b)-(3)).....	92
5.4. Operating Condition of EUT	93
5.5. Test Procedure	93
5.6. Test Results.....	93
6. EMISSION LIMITATIONS MEASUREMENT	96
6.1. Test Equipment.....	96
6.2. Block Diagram of Test Setup.....	96
6.3. Specification Limits (§15.247(c)).....	96
6.4. Operating Condition of EUT	96
6.5. Test Procedure	96
6.6. Test Results.....	97
7. BAND EDGES MEASUREMENT	104
7.1. Test Equipment.....	104
7.2. Block Diagram of Test Setup.....	104
7.3. Specification Limits (§15.247(c)).....	104
7.4. Operating Condition of EUT	104

7.5. Test Procedure	104
7.6. Test Results.....	104
8. POWER SPECTRAL DENSITY MEASUREMENT	110
8.1. Test Equipment.....	110
8.2. Block Diagram of Test Setup.....	110
8.3. Specification Limits (§15.247(d)).....	110
8.4. Operating Condition of EUT	110
8.5. Test Procedure	110
8.6. Test Results.....	111
9. DEVIATION TO TEST SPECIFICATIONS.....	118
10. PHOTOGRAPHS.....	119
10.1. Photos of Conducted Disturbance Measurement.....	119
10.2. Photos of Radiated Measurement at Semi-Anechoic Chamber	120
10.3. Photo of 6dB Bandwidth Measurement.....	122
10.4. Photo of Maximum Peak Output Measurement.....	123
10.5. Photo of Emission Limitations Measurement.....	124
10.6. Photo of Band Edges Measurement.....	124
10.7. Photo of Power Spectral Density Measurement	125

TEST REPORT CERTIFICATION

Applicant : LG Electronics Inc.
 Manufacturer #1 : LG Electronics De Sao Paulo Ltda
 Manufacturer #2 : LG Electronics Inc.
 Manufacturer #3 : MSI Electronics (Kunshan) Co., Ltd.
 EUT Description : Notebook PC
 FCC ID : **BEJ9QK-LGX30G02**
 (A) Model No. : LGX30
 (B) Serial No. : N/A
 (C) Brand : LG
 (D) Power Supply : DC 20V, 2A
 (E) Test Voltage : AC 120V/60Hz Via AC Adapter

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C, July 2008
 And ANSI C63.4/2003

(FCC 47 CFR Part 15C, §15.207 and §15.209 and §15.247)

The device described above was tested by AUDIX Technology Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 Subpart C limits.

The measurement results are contained in this test report and AUDIX Technology Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the requirements of FCC Part 15 standards.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX Technology Corporation.

Date of Test: Nov. 12 ~ Dec. 10, 2009

Date of Report: Dec. 10, 2009

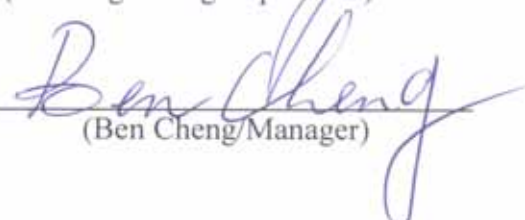
Producer:


 (Nita Lee/Administrator)

Reviewer:


 (Henning Chang/Supervisor)

Signatory:


 (Ben Cheng/Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	Notebook PC (The EUT is built-in wireless LAN, Bluetooth module and Mobile Broadband Module, this report for Wireless LAN, Bluetooth and Mobile Broadband Module are tested in others report of EM-F980913 and EM-F980917)
Model Number	:	LGX30
Serial Number	:	N/A
Brand	:	LG
FCC ID	:	BEJ9QK-LGX30G02
Applicant	:	LG Electronics Inc. 19-1, Cheongho-Ri, Jinway-Myun, Pyungtaik-Shi, Kyunggi-Do, 451-713 Korea, Republic of
Manufacturer #1	:	LG Electronics De Sao Paulo Ltda Av Dom Pedro 1 W7777 Distrito Industrial 12010-970 Taubate- SP Brazil.
Manufacturer #2	:	LG Electronics Inc. 73 Hyang Jeong-Dong, Cheongju Plant Cheongju-Shi, Hungduk-Gu Chungbuk, Republic of Korea
Manufacturer #3	:	MSI Electronics (Kunshan) Co., Ltd. 88 E Qianjin Rd Kunshan Jiangsu 215300 China
PCIE Mini-Card Wireless Module	:	Realtek, M/N RTL8191SE FCC ID: TX2-RTL8191SE
Fundamental Range	:	2400MHz ~ 2483.5MHz
Frequency Channel	:	802.11b/g: 11 channels 802.11n-HT20: 11 channels 802.11n-HT40: 7 channels
Radio Technology	:	802.11b: DSSS Modulation (DBPSK/DQPSK/CCK) 802.11g/n: OFDM Modulation (BPSK/QPSK/16QAM/64QAM)

Data Transfer Rate : 802.11b: 1/2/5.5/11Mbps
802.11g: 6/9/12/18/24/36/48/54Mbps
802.11n: up to 300Mbps

Antenna Gain : -0.67dBi (Peak)

AC Adapter : SUNG HO, M/N SHA913L
I/P: 100-240V~, 2A, 50/60Hz
O/P: 20V, 20A, 40W
DC Cord: Non-Shielded, Undetached, 1.5m
Bonded a ferrite core
AC Cord: Non-Shielded, Detached, 1.0m (2Pin)

Date of Receipt of Sample : Nov. 10, 2009

Date of Test : Nov. 12 ~ 27, 2009

Antenna Information

Antenna Part Number	Manufacture	Antenna Type	Peak Gain W/ Cable loss (dBi)	
			Frequency (MHz)	Max Gain (dBi)
[HBT15-LG01] WLAN Main Antenna	Hitachi	Film Antenna	2400-2500MHz	-0.67dBi (peak)
			4900-5350MHz	3.26dBi (peak)
			5470-5725MHz	3.29dBi (peak)
			5850-6000MHz	1.36dBi (peak)
[HBT14-LG01] WLAN Aux Antenna	Hitachi	Film Antenna	2400-2500MHz	-0.81dBi (peak)
			4900-5350MHz	0.78dBi (peak)
			5470-5725MHz	1.63dBi (peak)
			5850-6000MHz	0.40dBi (peak)

1.2. Data Rate Relative to Output Power

802.11b			
Channel	Modulation	Date Rate(Mbps)	Power(dBm)
1	DBPSK	1	15.74
1	DQPSK	2	15.7
1	CCK	5.5	15.65
1	CCK	11	15.63

802.11g			
Channel	Modulation	Date Rate(Mbps)	Power(dBm)
1	BPSK	6	21.85
1	BPSK	9	21.67
1	QPSK	12	21.65
1	QPSK	18	21.61
1	16-QAM	24	21.54
1	16-QAM	36	21.5
1	64-QAM	48	21.48
1	64-QAM	54	21.45

802.11n-HT20			
Channel	Modulation	Date Rate(Mbps)	Power(dBm)
1	BPSK	6.5	20.39
1	QPSK	13	20.36
1	QPSK	19.5	20.28
1	16-QAM	26	20.09
1	16-QAM	39	19.95
1	64-QAM	52	19.89
1	64-QAM	58.6	19.8
1	64-QAM	65	19.73

802.11g-HT40			
Channel	Modulation	Date Rate(Mbps)	Power(dBm)
3	BPSK	13.5	15.69
3	QPSK	27	15.67
3	QPSK	40.5	15.65
3	16-QAM	54	15.53
3	16-QAM	81	15.52
3	64-QAM	108	15.49
3	64-QAM	121.5	15.41
3	64-QAM	135	15.38

1.3. Test Configuration for Each Test Item

Test Item	802.11b	802.11g	802.11n-HT20	802.11n-HT40
	Data Rate for Test(Mbps)			
6dB BW	1	6	6.5	13.5
Peak Power Spectral Density	1	6	6.5	13.5
Peak Output Power	1	6	6.5	13.5
Band Edge	1	6	6.5	13.5
99% BW	1	6	6.5	13.5
Conducted Spurious Emission	1	6	6.5	13.5
Radiated Spurious Emission	1	6	6.5	13.5

1.4. Tested Supporting System Details

【ONLY FOR CONDUCTED EMISSION & RADIATED EMISSION MEASUREMENT】

1.4.1. I-POD PLAYER #1

Model Number : A1204
 Serial Number : 4H722TDYVTE
 FCC ID : By DoC
 BSMI ID : R33057
 Manufacturer : APPLE
 USB Data Cable : Shielded, Undetachable, 1m

1.4.2. I-POD PLAYER #2

Model Number : A1204
 Serial Number : 4H722TNUVTE
 FCC ID : By DoC
 BSMI ID : R33057
 Manufacturer : APPLE
 USB Data Cable : Shielded, Undetachable, 1m

1.4.3. EARPHONE

Model Number : N/A
 Serial Number : N/A
 Manufacturer : APPLE
 Earphone Cable : Non-Shielded, Detachable, 0.9m

1.4.4. SD CARD (INSTALL IN EUT)

Model Number : SDHC Card
 Serial Number : BH0822813475D
 Manufacturer : SanDisk
 Capacity : 4GB

1.5. Description of Test Facility

Name of Firm : **AUDIX Technology Corporation**
 EMC Department
 No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
 Taipei Hsien, Taiwan

Test Site : **No. 3 Shielded Room**
 (C3/Semi-AC) No. 67-4, Tin-Fu Tsun, Lin-Kou Hsiang
 Taipei Hsien, Taiwan

Semi-Anechoic Chamber
 No. 53-11, Tin-Fu Tsun, Lin-Kou, Hsiang,
 Taipei Hsien, Taiwan

May 14, 2009 Renewal on
 Federal Communication Commission
 Registration Number: 90993

NVLAP Lab. Code : 200077-0

TAF Accreditation No : 1724

1.6. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB), (V/m)
Conduction Test	150kHz~30MHz	±1.73dB
Radiation Test (Distance: 3m)	30MHz~300MHz	± 2.91dB
	300MHz~1000MHz	± 2.74dB
	Above 1GHz	± 5.02dB

Remark : Uncertainty = $k_{uc}(y)$

Test Item	Uncertainty
6dB Bandwidth	± 0.05kHz
Emission Limitations	± 0.13dB
Maximum peak output power	± 0.33dBm
Band edges	± 0.13dB
Power spectral density	± 0.13dB

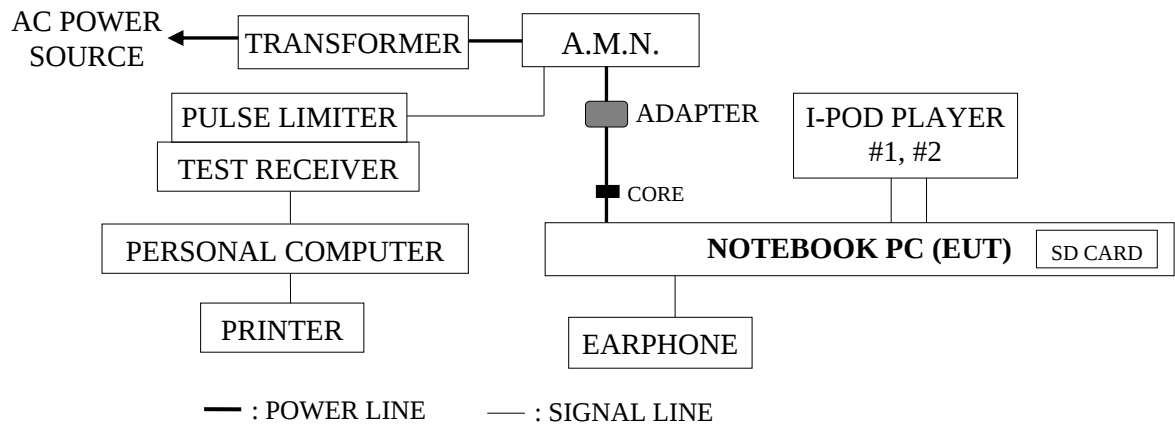
2. CONDUCTED EMISSION MEASUREMENT

2.1. Test Equipment

The following test equipment was used during the conducted emission measurement :
(No. 3 Shielded Room)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESCS30	100337	Apr. 03, 09'	Apr. 02, 10'
2.	A.M.N.	Kyoritsu	KNW-244C	8-1373-5	Jul. 28, 09'	Jul. 27, 10'
3.	L.I.S.N.	Kyoritsu	KNW-407	8-1370-9	Jun. 08, 09'	Jun. 07, 10'
4.	Pulse Limiter	R & S	ESH3Z2	100041	Feb. 20, 09'	Feb. 19, 10'

2.2. Block Diagram of Test Setup



2.3. Conducted Emission Limits (§15.207)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB μ V	56 ~ 46 dB μ V
500kHz ~ 5MHz	56 dB μ V	46 dB μ V
5MHz ~ 30MHz	60 dB μ V	50 dB μ V

Remark 1.: If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2.: The lower limit applies at the band edges.

2.4. Operating Condition of EUT

- 2.4.1. Set up the EUT and simulator as shown on 2.2.
- 2.4.2. Turn on the power of all equipment.
- 2.4.3. The Wireless LAN Module was installed in the Notebook PC (EUT), the Notebook PC was running test program “Realtek WLAN Diagnostic Program V 0.00250.0724.2009” and to set the EUT on transmitting and receiving during all testing.
- 2.4.4. The other peripheral devices were driven and operated in turn during all testing.

2.5. Test Procedure

The EUT was put on table which was above the ground by 80cm and its AC adapter's power cord connected to the AC mains through an Artificial Mains Network (A.M.N.). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provided a 50 ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions simulators of the interface cables should be manipulated according to FCC ANSI C63.4-2003 regulation during conducted measurement.

The bandwidth of the R&S Test Receiver ESCS30 was set at 9kHz.

The frequency range from 150kHz to 30MHz was checked.

All the final readings from Test Receiver were measured with the Quasi-Peak detector and Average detector. Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

2.6. Conducted Emission Measurement Results

PASSED.

(All the emissions not reported below are too low against the prescribed limits.)

EUT was performed during this section testing and all the test results are attached in next pages.

EUT : Notebook PC

M/N : LGX30

Test Date : Nov. 12, 2009

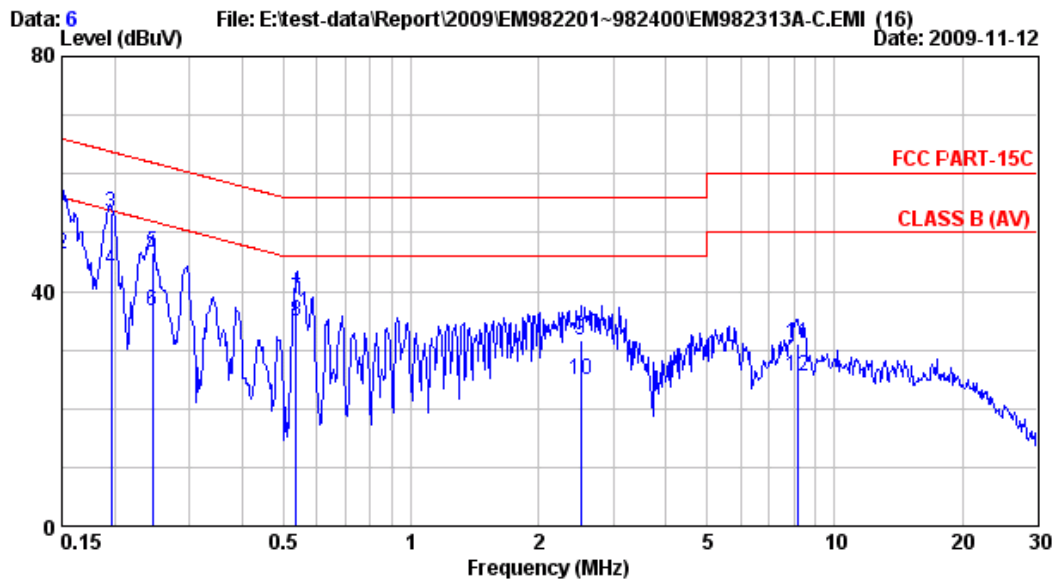
Temperature : 23

Humidity : 58%

Reference Test Data : Neutral # 6; Line # 5



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:emc@audixtech.com



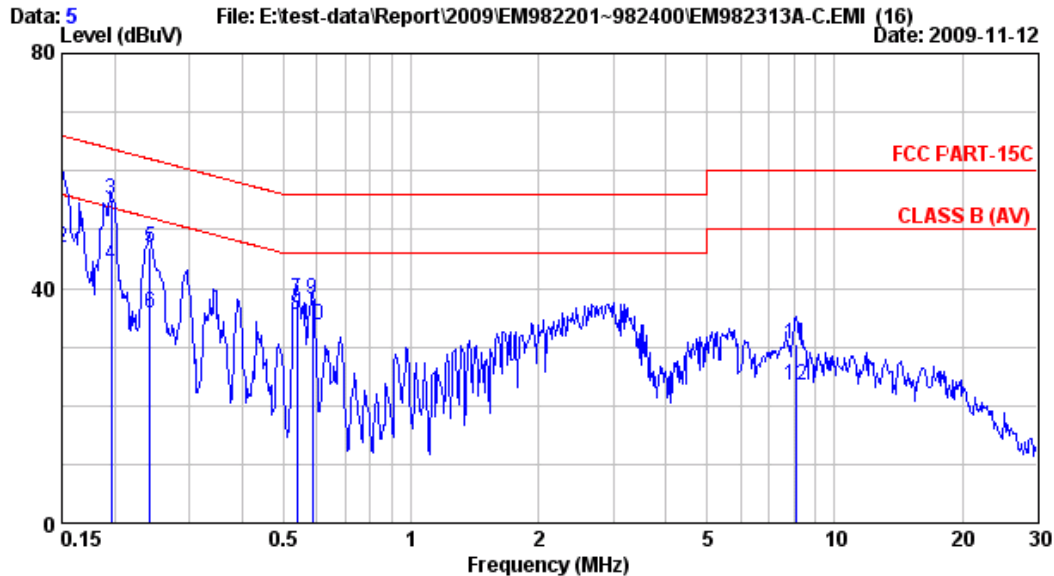
Site : NO.3 Shielded Room Data : 6
Condition : KNW-244C Phase : NEUTRAL
Limit : FCC PART-15C
Env. / Ins. : 23°C/58% ESCS 30 (337) Engineer: Mike-Kuo
EUT : Notebook PC M/N:LGX30
Power Rating : 120Vac / 60Hz
Test Mode : Full System (1366*768/60)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	0.14	0.20	55.96	56.30	66.00	9.69	QP
2	0.150	0.14	0.20	46.05	46.39	56.00	9.60	AVERAGE
3	0.196	0.10	0.20	53.10	53.40	63.79	10.38	QP
4	0.196	0.10	0.20	43.42	43.72	53.79	10.06	AVERAGE
5	0.245	0.10	0.20	46.22	46.52	61.91	15.39	QP
6	0.245	0.10	0.20	36.21	36.51	51.91	15.40	AVERAGE
7	0.537	0.10	0.20	38.46	38.76	56.00	17.24	QP
8	0.537	0.10	0.20	34.67	34.97	46.00	11.03	AVERAGE
9	2.514	0.20	0.40	31.18	31.78	56.00	24.22	QP
10	2.514	0.20	0.40	24.21	24.81	46.00	21.19	AVERAGE
11	8.188	0.28	0.60	30.12	31.00	60.00	29.00	QP
12	8.188	0.28	0.60	24.47	25.35	50.00	24.65	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:emc@audixtech.com



Site : NO.3 Shielded Room Data : 5
Condition : KNW-244C Phase : LINE
Limit : FCC PART-15C
Env. / Ins. : 23°C/58% ESCS 30 (337) Engineer: Mike-Kuo
EUT : Notebook PC M/N:LGX30
Power Rating : 120Vac / 60Hz
Test Mode : Full System (1366*768/60)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	0.14	0.20	58.16	58.50	66.00	7.50	QP
2	0.150	0.14	0.20	46.66	47.00	56.00	9.00	AVERAGE
3	0.197	0.10	0.20	54.80	55.10	63.76	8.65	QP
4	0.197	0.10	0.20	43.65	43.95	53.76	9.80	AVERAGE
5	0.242	0.10	0.20	46.56	46.86	62.02	15.16	QP
6	0.242	0.10	0.20	35.57	35.87	52.02	16.15	AVERAGE
7	0.539	0.10	0.20	37.76	38.06	56.00	17.94	QP
8	0.539	0.10	0.20	35.03	35.33	46.00	10.67	AVERAGE
9	0.585	0.10	0.20	37.94	38.24	56.00	17.76	QP
10	0.585	0.10	0.20	33.43	33.73	46.00	12.27	AVERAGE
11	8.114	0.35	0.60	29.58	30.53	60.00	29.47	QP
12	8.114	0.35	0.60	22.58	23.53	50.00	26.47	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipment was used during the radiated emission measurement:

3.1.1. For Frequency Range 30MHz~1000MHz (at Semi-Anechoic Chamber)

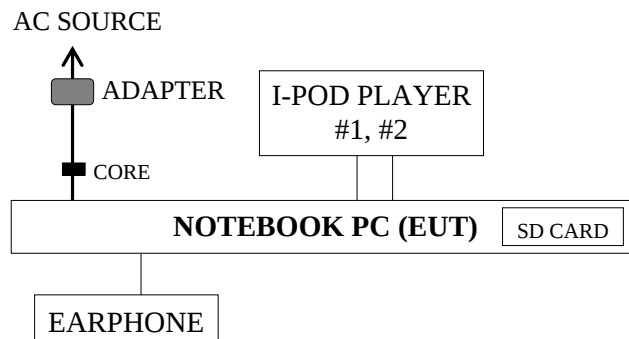
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8564EC	3946A00249	Oct. 27, 09'	Oct. 26, 10'
2.	Test Receiver	R & S	ESCS30	100265	Aug. 28, 09'	Aug. 27, 10'
3.	Pre-Amplifier	HP	8447D	2944A06305	Feb. 04, 09'	Feb. 03, 10'
4.	Biconical Antenna	CHASE	VBA6106A	1264	Mar. 20, 09'	Mar. 19, 10'
5.	Log Periodic Antenna	Schwarzbeck	UHALP9108-A	0810	Mar. 20, 09'	Mar. 19, 10'

3.1.2. For Frequency Above 1GHz (at Semi-Anechoic Chamber)

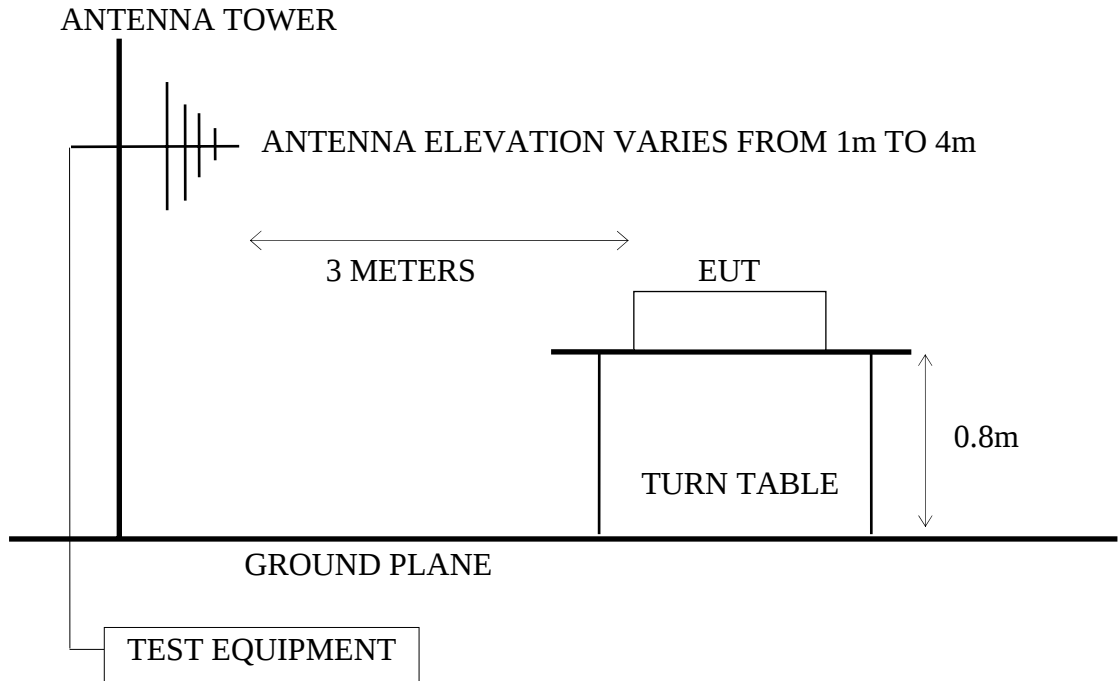
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8564EC	3946A00249	Oct. 27, 09'	Oct. 26, 10'
2.	Test Receiver	R & S	ESCS30	100265	Aug. 28, 09'	Aug. 27, 10'
3.	Pre-Amplifier	HP	8449B	3008A01284	Jun. 17, 09'	Jun. 16, 10'
4.	2.4GHz Notch Filter	EWT	EWT-14-0070-R1	G2	Dec. 05, 08'	Dec. 04, 09'
5.	3.5G High Pass Filter	HP	84300-80038	005	Jan. 08, 09'	Jan. 09, 10'
6.	Horn Antenna	EMCO	3115	9112-3775	May 15, 09'	May 14, 10'
7.	Horn Antenna	EMCO	3116	2653	Oct. 02, 09'	Oct. 01, 10'

3.2. Test Setup

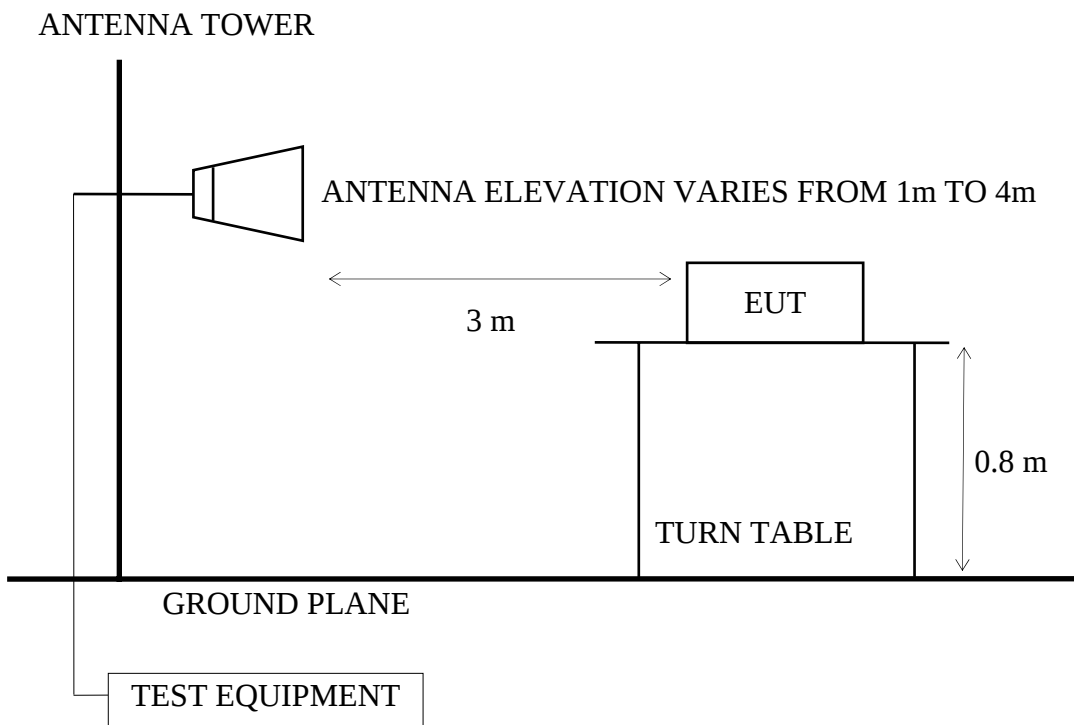
3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Semi-Anechoic Chamber (3m) Setup Diagram for 30-1000MHz



3.2.3. Semi-Anechoic Chamber (3m) Setup Diagram for above 1GHz



3.3. Radiated Emission Limits (§15.209)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMITS	
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
Above 1000	3	74.0 $\text{dB}\mu\text{V/m}$ (Peak) 54.0 $\text{dB}\mu\text{V/m}$ (Average)	

- Remark : (1) Emission level ($\text{dB}\mu\text{V/m}$) = 20 log Emission level ($\mu\text{V/m}$)
 (2) The tighter limit applies at the edge between two frequency bands.
 (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
 (4) The limits in this table are based on CFR 47 Part 15.205(a)(b) and Part 15.209 (a).
 (5) The over 1GHz limit, FCC limit is used based on CFR 47 Part 15.35(b) and Part 15.205(b) & Part 15.209(e) and Part 15.207(c).

3.4. Operating Condition of EUT

3.4.1. Set up the EUT (Notebook PC) and simulator as shown on 3.2.

3.4.2. To turn on the power of all equipments.

3.4.3. The EUT was set the Notebook PC using test program “Realtek WLAN Diagnostic Program V 0.00250.0724.2009”.

802.11b/g/n-HT20

3.4.4. Transmit Mode: The EUT was set to continuously transmit signals at 2412Hz、 2437MHz and 2462MHz during testing.

3.4.5. Receive Mode: The EUT was set to continuously receive signals at 2437MHz during testing.

802.11n-HT40

3.4.6. Transmit Mode: The EUT was set to continuously transmit signals at 2422Hz、 2437MHz and 2452MHz during testing.

3.4.7. Receive Mode: The EUT was set to continuously receive signals at 2437MHz during testing.

3.5. Test Procedure

The EUT and its simulators were placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set 3 meters away from the receiving antenna which was mounted on an antenna tower. The antenna moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log-periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC ANSI C63.4-2003 regulation.

The bandwidth of the R&S Test Receiver was set at 120kHz. (For 30MHz to 1000MHz)

The resolution bandwidth and video bandwidth of test spectrum analyzer is 1MHz for peak detection (PK) at frequency above 1GHz.

The resolution bandwidth of test spectrum analyzer is 1MHz and the video bandwidth is 10Hz for average detection (AV) at frequency above 1GHz.

The frequency range from 30MHz to 25GHz (Up to 10th harmonics from fundamental frequency) was checked. 30MHz to 1000MHz was measured with Quasi-Peak detector. Above 1GHz was measured with peak and average detector. For average reading in frequency from 5.5G to 25GHz, we checked it in 1 meter distance and with a shorter cable 2 meter instead of original's. There is no signal exist.

Note: The LGX30 build with 3.5G module, WiFi module and BT, it can be transmitted simultaneously. After evaluating, while 3.5 G module, WiFi and BT module transmit simultaneously is the worst case for radiation emission. The radiated spurious emission is performed in the worst case

3.6. Test Results

PASSED.

(All emissions not reported below are too low against the prescribed limits.)

EUT : Notebook PC M/N : LGX30

Test Date : Nov. 25, 2009 Temperature : 23 Humidity : 50%

Test Date : Nov. 26, 2009 Temperature : 23 Humidity : 50%

Test Date : Nov. 27, 2009 Temperature : 23 Humidity : 50%

For Frequency Range 30MHz~1000MHz:

The EUT with following test modes was performed during this section testing and all the test results are listed in section 3.6.1.

Mode	Type of Network	Channel	Frequency	Test Mode	Reference Test Data	
					Horizontal	Vertical
1.	802.11b	CH 1	2412MHz	Transmit	# 1	# 2
2.		CH 6	2437MHz		# 2	# 1
3.		CH 11	2462MHz		# 1	# 2
4.		CH 6	2437MHz	Receive	# 2	# 1
5.	802.11g	CH 1	2412MHz	Transmit	# 1	# 2
6.		CH 6	2437MHz		# 2	# 1
7.		CH 11	2462MHz		# 1	# 2
8.		CH 6	2437MHz	Receive	# 2	# 1
9.	802.11n-HT20	CH 1	2412MHz	Transmit	# 1	# 2
10.		CH 6	2437MHz		# 2	# 1
11.		CH 11	2462MHz		# 1	# 2
12.		CH 6	2437MHz	Receive	# 2	# 1
13.	802.11n-HT40	CH 3	2422MHz	Transmit	# 1	# 2
14.		CH 6	2437MHz		# 2	# 1
15.		CH 9	2452MHz		# 1	# 2
16.		CH 6	2437MHz	Receive	# 2	# 1

* Above all final readings were measured with Quasi-Peak detector.

For Frequency above 1GHz:

The EUT with following test modes was performed during this section testing and all the test results are listed in section 3.6.2.

Mode	Type of Network	Channel	Frequency	Test Mode	Reference Test Data	
					Horizontal	Vertical
1.	802.11b	CH 1	2412MHz	Transmit	# 4, 12	# 3, 11
2.		CH 6	2437MHz		# 8, 12	# 7, 11
3.		CH 11	2462MHz		# 8, 11	# 7, 12
4.		CH 6	2437MHz	Receive	# 4, 10	# 3, 9
5.	802.11g	CH 1	2412MHz	Transmit	# 4, 12	# 3, 11
6.		CH 6	2437MHz		# 8, 11	# 7, 12
7.		CH 11	2462MHz		# 8, 11	# 7, 12
8.		CH 6	2437MHz	Receive	# 3, 9	# 4, 10
9.	802.11n-HT20	CH 1	2412MHz	Transmit	# 4, 12	# 3, 11
10.		CH 6	2437MHz		# 8, 12	# 7, 11
11.		CH 11	2462MHz		# 8, 12	# 7, 11
12.		CH 6	2437MHz	Receive	# 4, 10	# 3, 9
13.	802.11n-HT40	CH 3	2422MHz	Transmit	# 3, 11	# 4, 12
14.		CH 6	2437MHz		# 8, 12	# 7, 11
15.		CH 9	2452MHz		# 12, 8	# 11, 7
16.		CH 6	2437MHz	Receive	# 3, 9	# 4, 10

* Above all final readings were measured with Peak detector and Average detector.

For Restricted Bands:

The EUT was tested in restricted bands and all the test results are listed in section 3.6.3. (The restricted bands defined in part 15.205(a))

Mode	Type of Network	Channel	Frequency	Test Mode	Reference Test Data	
					Horizontal	Vertical
1.	802.11b	CH 6	2412MHz	Transmit	# 2, # 3	# 1, # 4
3.		CH 11	2462MHz		# 7, # 6	# 8, # 5
5.	802.11g	CH 6	2412MHz	Transmit	# 2, # 3	# 1, # 4
7.		CH 11	2462MHz		# 7, # 6	# 8, # 5
9.	802.11n-HT20	CH 6	2412MHz	Transmit	# 2, # 3	# 1, # 4
11.		CH 11	2462MHz		# 7, # 6	# 8, # 5
13.	802.11n-HT40	CH 3	2422MHz	Transmit	# 2, # 3	# 1, # 4
15.		CH 9	2452MHz		# 7, # 6	# 8, # 5

3.6.1. For 30-1000MHz Frequency Range Measurement Results

802.11b, Transmit, Frequency: 2412MHz

Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2412(802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	189.080	21.46	2.90	3.96	28.32	43.50	15.18	
2	267.650	24.79	3.70	2.04	30.53	46.00	15.47	
3	365.620	16.65	4.50	3.53	24.68	46.00	21.32	
4	435.460	17.41	5.30	1.62	24.33	46.00	21.67	
5	534.400	19.57	7.00	1.01	27.58	46.00	18.42	
6	996.120	24.67	7.71	-2.55	29.82	54.00	24.18	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2412(802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	165.800	20.93	2.70	2.85	26.48	43.50	17.02	
2	192.960	21.66	3.00	5.09	29.75	43.50	13.75	
3	365.620	16.65	4.50	3.62	24.77	46.00	21.23	
4	565.440	20.49	6.60	2.73	29.82	46.00	16.18	
5	700.270	23.46	6.50	-1.60	28.36	46.00	17.64	
6	796.300	24.04	6.90	-1.60	29.34	46.00	16.66	
7	999.030	24.76	7.80	-2.46	30.10	54.00	23.90	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11b, Transmit, Frequency: 2437MHz

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2437(802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	182.290	21.33	2.90	3.07	27.30	43.50	16.20	
2	267.650	24.79	3.70	2.55	31.04	46.00	14.96	
3	365.620	16.65	4.50	4.26	25.41	46.00	20.59	
4	532.460	19.64	7.00	0.22	26.86	46.00	19.14	
5	565.440	20.49	6.60	-1.55	25.54	46.00	20.46	
6	996.120	24.67	7.71	-1.45	30.92	54.00	23.08	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2437(802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	164.830	20.89	2.70	4.70	28.29	43.50	15.21	
2	191.990	21.60	3.00	4.98	29.58	43.50	13.92	
3	367.560	16.83	4.46	3.28	24.57	46.00	21.43	
4	498.510	18.79	6.50	2.11	27.40	46.00	18.60	
5	567.380	20.97	6.50	-0.67	26.80	46.00	19.20	
6	796.300	24.04	6.90	0.48	31.42	46.00	14.58	
7	998.060	24.70	7.80	-2.32	30.18	54.00	23.82	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11b, Transmit, Frequency: 2462MHz

Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2462(802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	191.020	21.55	3.00	2.99	27.54	43.50	15.96	
2	266.680	24.74	3.70	1.18	29.62	46.00	16.38	
3	365.620	16.65	4.50	4.08	25.24	46.00	20.76	
4	534.400	19.57	7.00	0.77	27.34	46.00	18.66	
5	565.440	20.49	6.60	-0.56	26.53	46.00	19.47	
6	999.030	24.76	7.80	-1.98	30.58	54.00	23.42	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2462(802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	151.250	20.65	2.60	3.06	26.31	43.50	17.19	
2	191.990	21.60	3.00	3.52	28.12	43.50	15.38	
3	365.620	16.65	4.50	4.79	25.94	46.00	20.06	
4	565.440	20.49	6.60	-0.77	26.32	46.00	19.68	
5	796.300	24.04	6.90	-1.32	29.62	46.00	16.38	
6	999.030	24.76	7.80	-3.08	29.48	54.00	24.52	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11b, Receive, Frequency: 2437MHz

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : RX2437(802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	266.680	24.74	3.70	2.93	31.37	46.00	14.63	
2	365.620	16.65	4.50	3.64	24.79	46.00	21.21	
3	466.500	18.18	5.80	1.41	25.39	46.00	20.61	
4	533.430	19.61	7.00	-0.37	26.24	46.00	19.76	
5	800.180	24.14	6.90	-4.13	26.91	46.00	19.09	
6	999.030	24.76	7.80	-2.43	30.13	54.00	23.87	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : RX2437(802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	161.920	20.85	2.70	5.92	29.47	43.50	14.03	
2	188.110	21.43	2.90	6.70	31.03	43.50	12.47	
3	367.560	16.83	4.46	4.61	25.90	46.00	20.10	
4	565.440	20.49	6.60	0.54	27.63	46.00	18.37	
5	796.300	24.04	6.90	-0.85	30.09	46.00	15.91	
6	999.030	24.76	7.80	-0.82	31.74	54.00	22.26	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11g, Transmit, Frequency: 2412MHz

Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2412(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	191.990	21.60	3.00	1.58	26.18	43.50	17.32	
2	266.680	24.74	3.70	1.86	30.30	46.00	15.70	
3	365.620	16.65	4.50	5.11	26.26	46.00	19.74	
4	532.460	19.64	7.00	-0.15	26.49	46.00	19.51	
5	796.300	24.04	6.90	-4.71	26.23	46.00	19.77	
6	996.120	24.67	7.71	-2.78	29.59	54.00	24.41	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2412(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	144.460	20.31	2.60	4.47	27.38	43.50	16.12	
2	195.870	21.85	3.00	2.74	27.59	43.50	15.91	
3	365.620	16.65	4.50	4.84	25.99	46.00	20.01	
4	532.460	19.64	7.00	0.89	27.53	46.00	18.47	
5	567.380	20.97	6.50	-1.08	26.39	46.00	19.61	
6	799.210	24.10	6.90	-3.80	27.20	46.00	18.80	
7	996.120	24.67	7.71	-2.84	29.53	54.00	24.47	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11g, Transmit, Frequency: 2437MHz

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2437(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	198.780	22.07	3.00	1.57	26.64	43.50	16.86	
2	267.650	24.79	3.70	1.60	30.09	46.00	15.91	
3	365.620	16.65	4.50	5.13	26.28	46.00	19.72	
4	498.510	18.79	6.50	0.54	25.83	46.00	20.17	
5	532.460	19.64	7.00	0.80	27.44	46.00	18.56	
6	996.120	24.67	7.71	-2.22	30.15	54.00	23.85	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m VBA6106A(1264)2006 Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2437(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	144.460	20.31	2.60	29.70	26.58	43.50	16.92	
2	200.720	22.07	3.00	27.46	26.73	43.50	16.77	
3	365.620-500.00	4.50	546.79	24.95	46.00	46.00	21.05	
4	532.460-500.00	7.00	547.54	27.60	46.00	46.00	18.40	
5	796.300-500.00	6.90	550.68	30.27	46.00	46.00	15.73	
6	999.030-500.00	7.80	549.08	30.18	54.00	54.00	23.82	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11g, Transmit, Frequency: 2462MHz

Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2462(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	200.720	22.08	3.00	2.46	27.54	43.50	15.96	
2	267.650	24.79	3.70	1.80	30.29	46.00	15.71	
3	365.620	16.65	4.50	4.27	25.42	46.00	20.58	
4	532.460	19.64	7.00	-0.86	25.78	46.00	20.22	
5	565.440	20.49	6.60	0.28	27.37	46.00	18.63	
6	999.030	24.76	7.80	-2.97	29.59	54.00	24.41	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2462(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	142.520	20.26	2.50	4.56	27.32	43.50	16.18	
2	191.990	21.60	3.00	2.89	27.49	43.50	16.01	
3	365.620	16.65	4.50	3.85	25.00	46.00	21.00	
4	565.440	20.49	6.60	0.49	27.58	46.00	18.42	
5	700.270	23.46	6.50	-1.65	28.31	46.00	17.69	
6	796.300	24.04	6.90	-3.41	27.53	46.00	18.47	
7	996.120	24.67	7.71	-2.69	29.68	54.00	24.32	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11g, Receive, Frequency: 2437MHz

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : RX2437(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	192.960	21.66	3.00	1.78	26.44	43.50	17.06	
2	266.680	24.74	3.70	0.08	28.52	46.00	17.48	
3	365.620	16.65	4.50	4.17	25.33	46.00	20.67	
4	534.400	19.57	7.00	-0.54	26.03	46.00	19.97	
5	796.300	24.04	6.90	-3.51	27.43	46.00	18.57	
6	996.120	24.67	7.71	-1.46	30.91	54.00	23.09	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : RX2437(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	146.400	20.47	2.50	28.64	25.58	43.50	17.92	
2	196.840	21.94	3.00	28.10	27.23	43.50	16.27	
3	365.620	16.65	4.50	30.87	25.68	46.00	20.32	
4	534.400	19.57	7.00	26.96	26.59	46.00	19.41	
5	564.470	20.42	6.61	28.50	28.47	46.00	17.53	
6	796.300	24.04	6.90	24.82	28.46	46.00	17.54	
7	999.030	24.76	7.80	24.76	30.62	54.00	23.38	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11n-HT20, Transmit, Frequency: 2412MHz

Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2412(802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	196.840	21.94	3.00	2.41	27.35	43.50	16.15	
2	267.650	24.79	3.70	1.59	30.08	46.00	15.92	
3	365.620	16.65	4.50	4.34	25.49	46.00	20.51	
4	532.460	19.64	7.00	0.57	27.21	46.00	18.79	
5	565.440	20.49	6.60	-0.69	26.40	46.00	19.60	
6	999.030	24.76	7.80	-2.47	30.09	54.00	23.91	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2412(802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	144.460	20.31	2.60	3.62	26.53	43.50	16.97	
2	194.900	21.77	3.00	2.72	27.49	43.50	16.01	
3	365.620	16.65	4.50	3.13	24.28	46.00	21.72	
4	534.400	19.57	7.00	0.96	27.53	46.00	18.47	
5	567.380	20.97	6.50	0.87	28.34	46.00	17.66	
6	796.300	24.04	6.90	-0.65	30.29	46.00	15.71	
7	999.030	24.76	7.80	-3.38	29.18	54.00	24.82	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11n-HT20, Transmit, Frequency: 2437MHz

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2437(802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	200.720	22.08	3.00	2.38	27.46	43.50	16.04	
2	267.650	24.79	3.70	0.87	29.36	46.00	16.64	
3	367.560	16.83	4.46	4.13	25.43	46.00	20.57	
4	532.460	19.64	7.00	1.01	27.65	46.00	18.35	
5	843.830	25.23	7.10	-5.63	26.70	46.00	19.30	
6	999.030	24.76	7.80	-2.78	29.78	54.00	24.22	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2437(802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	140.580	20.22	2.50	5.47	28.19	43.50	15.31	
2	195.870	21.85	3.00	3.39	28.24	43.50	15.26	
3	365.620	16.65	4.50	3.85	25.00	46.00	21.00	
4	532.460	19.64	7.00	1.83	28.47	46.00	17.53	
5	567.380	20.97	6.50	0.87	28.34	46.00	17.66	
6	796.300	24.04	6.90	-0.30	30.64	46.00	15.36	
7	996.120	24.67	7.71	-2.67	29.70	54.00	24.30	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11n-HT20, Transmit, Frequency: 2462MHz

Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2462(802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	193.930	21.70	3.00	1.73	26.43	43.50	17.07	
2	266.680	24.74	3.70	0.93	29.37	46.00	16.63	
3	365.620	16.65	4.50	4.53	25.68	46.00	20.32	
4	532.460	19.64	7.00	-0.05	26.59	46.00	19.41	
5	565.440	20.49	6.60	-0.20	26.89	46.00	19.11	
6	999.030	24.76	7.80	-2.12	30.43	54.00	23.57	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2462(802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	144.460	20.31	2.60	4.52	27.44	43.50	16.06	
2	199.750	22.09	3.00	2.21	27.30	43.50	16.20	
3	365.620	16.65	4.50	4.64	25.79	46.00	20.21	
4	435.460	17.41	5.30	3.53	26.24	46.00	19.76	
5	532.460	19.64	7.00	1.54	28.18	46.00	17.82	
6	697.360	23.32	6.50	-0.38	29.44	46.00	16.56	
7	796.300	24.04	6.90	-0.85	30.09	46.00	15.91	
8	999.030	24.76	7.80	-2.04	30.52	54.00	23.48	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11n-HT20, Receive, Frequency: 2437MHz

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : RX2437(802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	200.720	22.08	3.00	1.36	26.44	43.50	17.06	
2	266.680	24.74	3.70	1.83	30.27	46.00	15.73	
3	367.560	16.83	4.46	4.04	25.33	46.00	20.67	
4	534.400	19.57	7.00	-0.88	25.69	46.00	20.31	
5	887.480	25.16	7.30	-2.80	29.66	46.00	16.34	
6	996.120	24.67	7.71	-1.20	31.17	54.00	22.83	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : RX2437(802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	141.550	20.25	2.50	4.63	27.38	43.50	16.12	
2	196.840	21.94	3.00	2.59	27.53	43.50	15.97	
3	365.620	16.65	4.50	3.54	24.69	46.00	21.31	
4	565.440	20.49	6.60	-0.64	26.45	46.00	19.55	
5	697.360	23.32	6.50	-2.44	27.38	46.00	18.62	
6	799.210	24.10	6.90	-0.42	30.58	46.00	15.42	
7	999.030	24.76	7.80	-3.33	29.23	54.00	24.77	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11n-HT40, Transmit, Frequency: 2422MHz

Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2422 (802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	200.720	22.08	3.00	2.23	27.31	43.50	16.19	
2	267.650	24.79	3.70	0.37	28.86	46.00	17.14	
3	365.620	16.65	4.50	5.18	26.34	46.00	19.66	
4	534.400	19.57	7.00	1.08	27.65	46.00	18.35	
5	565.440	20.49	6.60	-0.74	26.34	46.00	19.66	
6	996.120	24.67	7.71	-1.95	30.43	54.00	23.57	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2422 (802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	141.550	20.25	2.50	3.55	26.30	43.50	17.20	
2	197.810	22.02	3.00	2.19	27.21	43.50	16.29	
3	365.620	16.65	4.50	4.06	25.21	46.00	20.79	
4	501.420	18.95	6.52	2.62	28.09	46.00	17.91	
5	567.380	20.97	6.50	0.66	28.13	46.00	17.87	
6	798.240	24.09	6.90	-1.63	29.36	46.00	16.64	
7	999.030	24.76	7.80	-1.31	31.25	54.00	22.75	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11n-HT40, Transmit, Frequency: 2437MHz

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2437(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	195.870	21.85	3.00	2.39	27.24	43.50	16.26	
2	266.680	24.74	3.70	1.21	29.65	46.00	16.35	
3	365.620	16.65	4.50	4.24	25.39	46.00	20.61	
4	532.460	19.64	7.00	-0.20	26.44	46.00	19.56	
5	565.440	20.49	6.60	-1.40	25.69	46.00	20.32	
6	996.120	24.67	7.71	-2.83	29.54	54.00	24.46	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2437(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	141.550	20.25	2.50	3.49	26.24	43.50	17.26	
2	192.960	21.66	3.00	2.13	26.78	43.50	16.72	
3	365.620	16.65	4.50	5.07	26.22	46.00	19.78	
4	501.420	18.95	6.52	2.70	28.17	46.00	17.83	
5	565.440	20.49	6.60	1.24	28.33	46.00	17.67	
6	800.180	24.14	6.90	-1.79	29.25	46.00	16.75	
7	996.120	24.67	7.71	-1.95	30.43	54.00	23.57	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11n-HT40, Transmit, Frequency: 2452MHz

Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2452(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	193.930	21.70	3.00	2.84	27.53	43.50	15.97	
2	267.650	24.79	3.70	2.80	31.29	46.00	14.71	
3	365.620	16.65	4.50	5.34	26.49	46.00	19.51	
4	534.400	19.57	7.00	0.73	27.30	46.00	18.70	
5	565.440	20.49	6.60	-0.65	26.44	46.00	19.56	
6	999.030	24.76	7.80	-1.20	31.36	54.00	22.64	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2452(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	147.370	20.53	2.58	3.24	26.36	43.50	17.14	
2	194.900	21.77	3.00	2.20	26.97	43.50	16.53	
3	365.620	16.65	4.50	4.27	25.42	46.00	20.58	
4	498.510	18.79	6.50	2.06	27.35	46.00	18.65	
5	567.380	20.97	6.50	0.78	28.25	46.00	17.75	
6	796.300	24.04	6.90	-1.40	29.54	46.00	16.46	
7	999.030	24.76	7.80	-2.02	30.54	54.00	23.46	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11n-HT40, Receive, Frequency: 2437MHz

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : RX2437(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	192.960	21.66	3.00	2.76	27.42	43.50	16.08	
2	267.650	24.79	3.70	2.53	31.02	46.00	14.98	
3	365.620	16.65	4.50	5.25	26.40	46.00	19.60	
4	532.460	19.64	7.00	-1.07	25.57	46.00	20.43	
5	565.440	20.49	6.60	-0.61	26.48	46.00	19.52	
6	999.030	24.76	7.80	-1.62	30.94	54.00	23.06	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : RX2437(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	142.520	20.26	2.50	4.63	27.39	43.50	16.11	
2	197.810	22.02	3.00	1.57	26.59	43.50	16.91	
3	365.620	16.65	4.50	4.75	25.90	46.00	20.10	
4	565.440	20.49	6.60	-0.27	26.82	46.00	19.18	
5	700.270	23.46	6.50	-1.32	28.64	46.00	17.36	
6	800.180	24.14	6.90	0.35	31.39	46.00	14.61	
7	999.030	24.76	7.80	-1.66	30.89	54.00	23.11	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

3.6.2. For Above 1GHz Frequency Range Measurement Results

802.11b, Transmit, Frequency: 2412MHz

Site no.	: A/C Chamber	Data no.	: 4
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2412(802.11b)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	14.09	42.90	74.00	31.10	Peak
2	1330.960	25.22	4.93	15.57	45.71	74.00	28.29	Peak
3	1502.320	25.77	5.43	12.77	43.97	74.00	30.03	Peak
4	1594.720	26.10	6.12	12.00	44.22	74.00	29.78	Peak
5	2128.960	27.82	6.02	9.54	43.39	74.00	30.61	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no.	: A/C Chamber	Data no.	: 12
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2412(802.11b)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	10.56	39.37	54.00	14.63	Average
2	1330.960	25.22	4.93	10.15	40.29	54.00	13.71	Average
3	1502.320	25.77	5.43	8.57	39.76	54.00	14.24	Average
4	1594.720	26.10	6.12	7.25	39.47	54.00	14.53	Average
5	2128.960	27.82	6.02	4.80	38.64	54.00	15.36	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2412(802.11b)

Data no. : 3
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	15.59	44.40	74.00	29.60	Peak
2	1330.960	25.22	4.93	19.70	49.84	74.00	24.16	Peak
3	1502.320	25.77	5.43	16.61	47.81	74.00	26.19	Peak
4	1599.760	26.10	6.14	15.58	47.82	74.00	26.18	Peak
5	2132.320	27.84	6.03	10.41	44.27	74.00	29.73	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2412(802.11b)

Data no. : 11
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	11.37	40.18	54.00	13.82	Average
2	1330.960	25.22	4.93	13.03	43.17	54.00	10.83	Average
3	1502.320	25.77	5.43	11.42	42.62	54.00	11.38	Average
4	1599.760	26.10	6.14	11.71	43.95	54.00	10.05	Average
5	2132.320	27.84	6.03	5.52	39.39	54.00	14.61	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11b Transmit, Frequency: 2437MHz

Site no.	: A/C Chamber	Data no.	: 8
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2437(802.11b)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	15.79	44.59	74.00	29.41	Peak
2	1334.320	25.27	4.94	14.42	44.63	74.00	29.37	Peak
3	1502.320	25.77	5.43	14.14	45.34	74.00	28.66	Peak
4	1594.720	26.10	6.12	13.19	45.41	74.00	28.59	Peak
5	2137.360	27.84	6.04	10.45	44.32	74.00	29.68	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no.	: A/C Chamber	Data no.	: 12
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2437(802.11b)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	11.43	40.23	54.00	13.77	Average
2	1334.320	25.27	4.94	9.99	40.19	54.00	13.81	Average
3	1502.320	25.77	5.43	9.43	40.63	54.00	13.37	Average
4	1594.720	26.10	6.12	9.20	41.42	54.00	12.58	Average
5	2137.360	27.84	6.04	6.21	40.09	54.00	13.91	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2437(802.11b)

Data no. : 7
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	16.35	45.16	74.00	28.84	Peak
2	1330.960	25.22	4.93	17.88	48.02	74.00	25.98	Peak
3	1502.320	25.77	5.43	17.81	49.01	74.00	24.99	Peak
4	1594.720	26.10	6.12	16.06	48.28	74.00	25.72	Peak
5	2036.560	27.73	5.90	11.46	45.10	74.00	28.90	Peak
6	2132.320	27.84	6.03	10.96	44.82	74.00	29.18	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2437(802.11b)

Data no. : 11
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	11.38	40.19	54.00	13.81	Average
2	1330.960	25.22	4.93	12.40	42.54	54.00	11.46	Average
3	1502.320	25.77	5.43	12.64	43.84	54.00	10.16	Average
4	1594.720	26.10	6.12	10.05	42.27	54.00	11.73	Average
5	2036.560	27.73	5.90	7.66	41.30	54.00	12.70	Average
6	2132.320	27.84	6.03	6.22	40.09	54.00	13.91	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11b, Transmit, Frequency: 2462MHz

Site no.	: A/C Chamber	Data no.	: 8
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2462(802.11b)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	15.46	44.27	74.00	29.73	Peak
2	1330.960	25.22	4.93	14.75	44.89	74.00	29.11	Peak
3	1502.320	25.77	5.43	14.92	46.12	74.00	27.88	Peak
4	1599.760	26.10	6.14	12.61	44.85	74.00	29.15	Peak
5	2128.960	27.82	6.02	10.18	44.03	74.00	29.97	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no.	: A/C Chamber	Data no.	: 11
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2462(802.11b)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	11.54	40.35	54.00	13.65	Average
2	1330.960	25.22	4.93	10.04	40.18	54.00	13.82	Average
3	1502.320	25.77	5.43	10.93	42.13	54.00	11.87	Average
4	1599.760	26.10	6.14	8.82	41.06	54.00	12.94	Average
5	2128.960	27.82	6.02	6.42	40.26	54.00	13.74	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2462(802.11b)

Data no. : 7
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	16.35	45.16	74.00	28.84	Peak
2	1334.320	25.27	4.94	16.55	46.76	74.00	27.24	Peak
3	1502.320	25.77	5.43	17.16	48.36	74.00	25.64	Peak
4	1594.720	26.10	6.12	15.97	48.19	74.00	25.81	Peak
5	2132.320	27.84	6.03	11.98	45.84	74.00	28.16	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2462(802.11b)

Data no. : 12
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	11.76	40.57	54.00	13.43	Average
2	1334.320	25.27	4.94	11.38	41.58	54.00	12.42	Average
3	1502.320	25.77	5.43	11.21	42.41	54.00	11.59	Average
4	1594.720	26.10	6.12	10.65	42.87	54.00	11.13	Average
5	2132.320	27.84	6.03	7.06	40.93	54.00	13.07	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11b, Receive, Frequency: 2437MHz

Site no.	: A/C Chamber	Data no.	: 4
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: RX2437(802.11b)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	13.82	42.62	74.00	31.38	Peak
2	1330.960	25.22	4.93	14.67	44.81	74.00	29.19	Peak
3	1502.320	25.77	5.43	13.12	44.32	74.00	29.68	Peak
4	1599.760	26.10	6.14	15.70	47.94	74.00	26.06	Peak
5	2123.920	27.82	6.01	11.13	44.96	74.00	29.04	Peak
6	2392.720	28.10	6.34	11.36	45.80	74.00	28.20	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no.	: A/C Chamber	Data no.	: 10
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: RX2437(802.11b)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	9.35	38.15	54.00	15.85	Average
2	1330.960	25.22	4.93	10.44	40.58	54.00	13.42	Average
3	1502.320	25.77	5.43	9.37	40.57	54.00	13.43	Average
4	1599.760	26.10	6.14	10.10	42.34	54.00	11.66	Average
5	2123.920	27.82	6.01	6.60	40.44	54.00	13.56	Average
6	2392.720	28.10	6.34	6.28	40.72	54.00	13.28	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : RX2437(802.11b)

Data no. : 3
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	15.11	43.92	74.00	30.08	Peak
2	1330.960	25.22	4.93	19.37	49.51	74.00	24.49	Peak
3	1502.320	25.77	5.43	15.11	46.31	74.00	27.69	Peak
4	1594.720	26.10	6.12	16.99	49.21	74.00	24.79	Peak
5	1863.520	27.17	6.57	12.81	46.54	74.00	27.46	Peak
6	2128.960	27.82	6.02	11.59	45.44	74.00	28.56	Peak
7	2392.720	28.10	6.34	14.27	48.71	74.00	25.29	Peak
8	2501.920	28.20	6.47	13.29	47.96	74.00	26.04	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : RX2437(802.11b)

Data no. : 9
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	11.54	40.35	54.00	13.65	Average
2	1330.960	25.22	4.93	12.93	43.08	54.00	10.92	Average
3	1502.320	25.77	5.43	9.93	41.12	54.00	12.88	Average
4	1594.720	26.10	6.12	12.52	44.75	54.00	9.25	Average
5	1863.520	27.17	6.57	9.38	43.12	54.00	10.88	Average
6	2128.960	27.82	6.02	7.87	41.71	54.00	12.29	Average
7	2392.720	28.10	6.34	8.65	43.08	54.00	10.92	Average
8	2501.920	28.20	6.47	8.78	43.45	54.00	10.55	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11g, Transmit, Frequency: 2412MHz

Site no.	: A/C Chamber	Data no.	: 4
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2412(802.11g)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	15.57	44.38	74.00	29.62	Peak
2	1330.960	25.22	4.93	12.88	43.02	74.00	30.98	Peak
3	1502.320	25.77	5.43	14.07	45.27	74.00	28.73	Peak
4	1599.760	26.10	6.14	12.84	45.08	74.00	28.92	Peak
5	2132.320	27.84	6.03	11.40	45.26	74.00	28.74	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no.	: A/C Chamber	Data no.	: 12
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2412(802.11g)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	11.04	39.85	54.00	14.15	Average
2	1330.960	25.22	4.93	9.79	39.93	54.00	14.07	Average
3	1502.320	25.77	5.43	9.98	41.18	54.00	12.82	Average
4	1599.760	26.10	6.14	9.12	41.36	54.00	12.64	Average
5	2132.320	27.84	6.03	6.60	40.47	54.00	13.53	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2412(802.11g)

Data no. : 3
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	15.37	44.18	74.00	29.82	Peak
2	1330.960	25.22	4.93	14.69	44.83	74.00	29.17	Peak
3	1502.320	25.77	5.43	17.34	48.54	74.00	25.46	Peak
4	1599.760	26.10	6.14	16.67	48.91	74.00	25.09	Peak
5	2036.560	27.73	5.90	12.90	46.54	74.00	27.46	Peak
6	2132.320	27.84	6.03	10.27	44.13	74.00	29.87	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2412(802.11g)

Data no. : 11
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	11.31	40.12	54.00	13.88	Average
2	1330.960	25.22	4.93	10.51	40.65	54.00	13.35	Average
3	1502.320	25.77	5.43	12.08	43.28	54.00	10.72	Average
4	1599.760	26.10	6.14	11.33	43.57	54.00	10.43	Average
5	2036.560	27.73	5.90	8.65	42.29	54.00	11.71	Average
6	2132.320	27.84	6.03	6.72	40.59	54.00	13.41	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11g, Transmit, Frequency: 2437MHz

Site no.	: A/C Chamber	Data no.	: 8
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2437(802.11g)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	16.12	44.92	74.00	29.08	Peak
2	1334.320	25.27	4.94	12.94	43.15	74.00	30.85	Peak
3	1502.320	25.77	5.43	14.04	45.24	74.00	28.76	Peak
4	1594.720	26.10	6.12	12.81	45.03	74.00	28.97	Peak
5	2137.360	27.84	6.04	10.38	44.25	74.00	29.75	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no.	: A/C Chamber	Data no.	: 11
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2437(802.11g)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	11.46	40.26	54.00	13.74	Average
2	1334.320	25.27	4.94	9.18	39.38	54.00	14.62	Average
3	1502.320	25.77	5.43	10.05	41.25	54.00	12.75	Average
4	1594.720	26.10	6.12	8.87	41.09	54.00	12.91	Average
5	2137.360	27.84	6.04	6.51	40.39	54.00	13.61	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2437(802.11g)

Data no. : 7
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	16.65	45.46	74.00	28.54	Peak
2	1334.320	25.27	4.94	15.70	45.91	74.00	28.09	Peak
3	1502.320	25.77	5.43	17.60	48.80	74.00	25.20	Peak
4	1594.720	26.10	6.12	16.13	48.35	74.00	25.65	Peak
5	2036.560	27.73	5.90	10.94	44.58	74.00	29.42	Peak
6	2132.320	27.84	6.03	11.89	45.75	74.00	28.25	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2437(802.11g)

Data no. : 12
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	11.86	40.67	54.00	13.33	Average
2	1334.320	25.27	4.94	11.17	41.37	54.00	12.63	Average
3	1502.320	25.77	5.43	11.28	42.48	54.00	11.52	Average
4	1594.720	26.10	6.12	9.16	41.38	54.00	12.62	Average
5	2036.560	27.73	5.90	7.18	40.82	54.00	13.18	Average
6	2132.320	27.84	6.03	7.25	41.12	54.00	12.88	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11g, Transmit, Frequency: 2462MHz

Site no.	: A/C Chamber	Data no.	: 8
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2462(802.11g)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	15.40	44.20	74.00	29.80	Peak
2	1330.960	25.22	4.93	15.36	45.50	74.00	28.50	Peak
3	1502.320	25.77	5.43	14.37	45.57	74.00	28.43	Peak
4	1594.720	26.10	6.12	12.00	44.22	74.00	29.78	Peak
5	2128.960	27.82	6.02	10.22	44.07	74.00	29.93	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no.	: A/C Chamber	Data no.	: 11
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2462(802.11g)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	10.85	39.65	54.00	14.35	Average
2	1330.960	25.22	4.93	10.24	40.38	54.00	13.62	Average
3	1502.320	25.77	5.43	9.18	40.38	54.00	13.62	Average
4	1594.720	26.10	6.12	7.94	40.16	54.00	13.84	Average
5	2128.960	27.82	6.02	5.63	39.47	54.00	14.53	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2462(802.11g)

Data no. : 7
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	17.64	46.44	74.00	27.56	Peak
2	1334.320	25.27	4.94	18.54	48.75	74.00	25.25	Peak
3	1502.320	25.77	5.43	17.55	48.75	74.00	25.25	Peak
4	1599.760	26.10	6.14	15.90	48.14	74.00	25.86	Peak
5	1863.520	27.17	6.57	12.72	46.45	74.00	27.55	Peak
6	2128.960	27.82	6.02	11.68	45.53	74.00	28.47	Peak
7	2669.920	28.83	6.74	10.32	45.90	74.00	28.10	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2462(802.11g)

Data no. : 12
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	13.38	42.19	54.00	11.81	Average
2	1334.320	25.27	4.94	12.66	42.86	54.00	11.14	Average
3	1502.320	25.77	5.43	11.97	43.17	54.00	10.83	Average
4	1599.760	26.10	6.14	10.73	42.96	54.00	11.04	Average
5	1863.520	27.17	6.57	7.06	40.79	54.00	13.21	Average
6	2128.960	27.82	6.02	7.59	41.43	54.00	12.57	Average
7	2669.920	28.83	6.74	6.00	41.57	54.00	12.43	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11g, Receive, Frequency: 2437MHz

Site no.	: A/C Chamber	Data no.	: 3
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: RX2437(802.11g)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	14.76	43.57	74.00	30.43	Peak
2	1330.960	25.22	4.93	16.35	46.49	74.00	27.51	Peak
3	1502.320	25.77	5.43	14.71	45.91	74.00	28.09	Peak
4	1599.760	26.10	6.14	14.57	46.81	74.00	27.19	Peak
5	2128.960	27.82	6.02	11.84	45.69	74.00	28.31	Peak
6	2401.120	28.10	6.35	11.79	46.24	74.00	27.76	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no.	: A/C Chamber	Data no.	: 9
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: RX2437(802.11g)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	11.29	40.10	54.00	13.90	Average
2	1330.960	25.22	4.93	12.01	42.16	54.00	11.84	Average
3	1502.320	25.77	5.43	9.18	40.37	54.00	13.63	Average
4	1599.760	26.10	6.14	9.18	41.42	54.00	12.58	Average
5	2128.960	27.82	6.02	6.90	40.74	54.00	13.26	Average
6	2401.120	28.10	6.35	8.00	42.45	54.00	11.55	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : RX2437(802.11g)

Data no. : 4
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	13.87	42.67	74.00	31.33	Peak
2	1330.960	25.22	4.93	19.42	49.56	74.00	24.44	Peak
3	1502.320	25.77	5.43	16.20	47.40	74.00	26.60	Peak
4	1599.760	26.10	6.14	18.18	50.42	74.00	23.58	Peak
5	1868.560	27.17	6.53	14.07	47.77	74.00	26.23	Peak
6	2132.320	27.84	6.03	11.68	45.54	74.00	28.46	Peak
7	2392.720	28.10	6.34	13.42	47.86	74.00	26.14	Peak
8	2501.920	28.20	6.47	12.20	46.87	74.00	27.13	Peak
9	2669.920	28.83	6.74	11.33	46.91	74.00	27.09	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : RX2437(802.11g)

Data no. : 10
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	9.84	38.64	54.00	15.36	Average
2	1330.960	25.22	4.93	13.40	43.55	54.00	10.46	Average
3	1502.320	25.77	5.43	12.06	43.26	54.00	10.74	Average
4	1599.760	26.10	6.14	11.59	43.82	54.00	10.18	Average
5	1868.560	27.17	6.53	8.84	42.54	54.00	11.46	Average
6	2132.320	27.84	6.03	6.29	40.16	54.00	13.84	Average
7	2392.720	28.10	6.34	8.40	42.84	54.00	11.16	Average
8	2501.920	28.20	6.47	7.41	42.08	54.00	11.92	Average
9	2669.920	28.83	6.74	5.48	41.05	54.00	12.95	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11n-HT20, Transmit, Frequency: 2412MHz

Site no.	: A/C Chamber	Data no.	: 4
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2412(802.11n-HT20)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	15.52	44.32	74.00	29.68	Peak
2	1330.960	25.22	4.93	13.30	43.44	74.00	30.56	Peak
3	1502.320	25.77	5.43	14.66	45.86	74.00	28.14	Peak
4	1594.720	26.10	6.12	12.51	44.73	74.00	29.27	Peak
5	2128.960	27.82	6.02	9.89	43.74	74.00	30.26	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no.	: A/C Chamber	Data no.	: 12
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2412(802.11n-HT20)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	10.87	39.67	54.00	14.33	Average
2	1330.960	25.22	4.93	9.32	39.46	54.00	14.54	Average
3	1502.320	25.77	5.43	9.38	40.58	54.00	13.42	Average
4	1594.720	26.10	6.12	8.07	40.30	54.00	13.70	Average
5	2128.960	27.82	6.02	5.70	39.54	54.00	14.46	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2412(802.11n-HT20)

Data no. : 3
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	16.24	45.05	74.00	28.95	Peak
2	1330.960	25.22	4.93	17.47	47.61	74.00	26.39	Peak
3	1502.320	25.77	5.43	17.79	48.99	74.00	25.01	Peak
4	1594.720	26.10	6.12	16.37	48.59	74.00	25.41	Peak
5	2132.320	27.84	6.03	12.40	46.26	74.00	27.74	Peak
6	2666.560	28.83	6.73	10.55	46.11	74.00	27.89	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2412(802.11n-HT20)

Data no. : 11
 Ant. pol. : HORIZONTAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	11.57	40.37	54.00	13.63	Average
2	1330.960	25.22	4.93	9.44	39.58	54.00	14.42	Average
3	1502.320	25.77	5.43	9.45	40.65	54.00	13.35	Average
4	1594.720	26.10	6.12	8.10	40.32	54.00	13.68	Average
5	2128.960	27.82	6.02	5.55	39.40	54.00	14.60	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11n-HT20, Transmit, Frequency: 2437MHz

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2437(802.11n-HT20)

Data no. : 8
 Ant. pol. : HORIZONTAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	13.59	42.40	74.00	31.60	Peak
2	1334.320	25.27	4.94	14.59	44.80	74.00	29.20	Peak
3	1502.320	25.77	5.43	14.71	45.91	74.00	28.09	Peak
4	1594.720	26.10	6.12	13.29	45.51	74.00	28.49	Peak
5	2128.960	27.82	6.02	10.84	44.69	74.00	29.31	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2437(802.11n-HT20)

Data no. : 12
 Ant. pol. : HORIZONTAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	9.73	38.54	54.00	15.46	Average
2	1334.320	25.27	4.94	9.96	40.17	54.00	13.83	Average
3	1502.320	25.77	5.43	9.04	40.24	54.00	13.76	Average
4	1594.720	26.10	6.12	9.00	41.23	54.00	12.77	Average
5	2128.960	27.82	6.02	6.25	40.09	54.00	13.91	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2437(802.11n-HT20)

Data no. : 7
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	17.84	46.65	74.00	27.35	Peak
2	1330.960	25.22	4.93	19.68	49.82	74.00	24.18	Peak
3	1502.320	25.77	5.43	16.40	47.60	74.00	26.40	Peak
4	1594.720	26.10	6.12	15.97	48.19	74.00	25.81	Peak
5	2036.560	27.73	5.90	11.49	45.13	74.00	28.87	Peak
6	2132.320	27.84	6.03	10.34	44.20	74.00	29.80	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2437(802.11n-HT20)

Data no. : 11
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	11.78	40.59	54.00	13.41	Average
2	1330.960	25.22	4.93	13.11	43.26	54.00	10.75	Average
3	1502.320	25.77	5.43	11.20	42.40	54.00	11.61	Average
4	1594.720	26.10	6.12	11.42	43.65	54.00	10.35	Average
5	2036.560	27.73	5.90	7.80	41.44	54.00	12.56	Average
6	2132.320	27.84	6.03	6.52	40.39	54.00	13.61	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11n-HT20, Transmit, Frequency: 2462MHz

Site no.	: A/C Chamber	Data no.	: 8
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2462(802.11n-HT20)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	16.08	44.89	74.00	29.11	Peak
2	1330.960	25.22	4.93	14.11	44.25	74.00	29.75	Peak
3	1502.320	25.77	5.43	14.73	45.93	74.00	28.07	Peak
4	1594.720	26.10	6.12	14.09	46.31	74.00	27.69	Peak
5	2128.960	27.82	6.02	9.95	43.80	74.00	30.20	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no.	: A/C Chamber	Data no.	: 12
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2462(802.11n-HT20)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	11.57	40.38	54.00	13.62	Average
2	1330.960	25.22	4.93	10.40	40.54	54.00	13.46	Average
3	1502.320	25.77	5.43	8.99	40.19	54.00	13.81	Average
4	1594.720	26.10	6.12	9.02	41.24	54.00	12.76	Average
5	2128.960	27.82	6.02	4.85	38.69	54.00	15.31	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2462(802.11n-HT20)

Data no. : 7
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	16.97	45.77	74.00	28.23	Peak
2	1334.320	25.27	4.94	14.77	44.98	74.00	29.02	Peak
3	1502.320	25.77	5.43	16.97	48.17	74.00	25.83	Peak
4	1599.760	26.10	6.14	16.90	49.14	74.00	24.86	Peak
5	2036.560	27.73	5.90	11.04	44.68	74.00	29.32	Peak
6	2132.320	27.84	6.03	12.12	45.98	74.00	28.02	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2462(802.11n-HT20)

Data no. : 11
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	11.99	40.79	54.00	13.21	Average
2	1334.320	25.27	4.94	10.06	40.26	54.00	13.74	Average
3	1502.320	25.77	5.43	12.12	43.32	54.00	10.68	Average
4	1599.760	26.10	6.14	12.50	44.74	54.00	9.26	Average
5	2036.560	27.73	5.90	6.84	40.48	54.00	13.52	Average
6	2132.320	27.84	6.03	7.92	41.78	54.00	12.22	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11n-HT20, Receive, Frequency: 2437MHz

Site no.	: A/C Chamber	Data no.	: 4
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: RX2437(802.11n-HT20)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	14.28	43.09	74.00	30.91	Peak
2	1330.960	25.22	4.93	15.76	45.90	74.00	28.10	Peak
3	1502.320	25.77	5.43	14.04	45.24	74.00	28.76	Peak
4	1594.720	26.10	6.12	14.59	46.81	74.00	27.19	Peak
5	2128.960	27.82	6.02	12.10	45.95	74.00	28.05	Peak
6	2397.760	28.10	6.35	10.07	44.52	74.00	29.48	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no.	: A/C Chamber	Data no.	: 10
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: RX2437(802.11n-HT20)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	11.21	40.02	54.00	13.98	Average
2	1330.960	25.22	4.93	11.10	41.24	54.00	12.76	Average
3	1502.320	25.77	5.43	10.48	41.67	54.00	12.33	Average
4	1594.720	26.10	6.12	10.52	42.74	54.00	11.26	Average
5	2128.960	27.82	6.02	7.42	41.26	54.00	12.74	Average
6	2397.760	28.10	6.35	5.57	40.02	54.00	13.98	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : RX2437(802.11n-HT20)

Data no. : 3
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	14.62	43.43	74.00	30.57	Peak
2	1334.320	25.27	4.94	19.52	49.73	74.00	24.27	Peak
3	1502.320	25.77	5.43	16.01	47.21	74.00	26.79	Peak
4	1599.760	26.10	6.14	18.41	50.65	74.00	23.35	Peak
5	1868.560	27.17	6.53	14.84	48.54	74.00	25.46	Peak
6	2132.320	27.84	6.03	11.45	45.31	74.00	28.69	Peak
7	2392.720	28.10	6.34	14.11	48.55	74.00	25.45	Peak
8	2501.920	28.20	6.47	12.64	47.31	74.00	26.69	Peak
9	2669.920	28.83	6.74	10.34	45.92	74.00	28.08	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : RX2437(802.11n-HT20)

Data no. : 9
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	11.25	40.06	54.00	13.94	Average
2	1334.320	25.27	4.94	12.21	42.41	54.00	11.59	Average
3	1502.320	25.77	5.43	10.37	41.57	54.00	12.43	Average
4	1599.760	26.10	6.14	11.34	43.58	54.00	10.42	Average
5	1868.560	27.17	6.53	9.14	42.85	54.00	11.15	Average
6	2132.320	27.84	6.03	7.34	41.20	54.00	12.80	Average
7	2392.720	28.10	6.34	7.35	41.79	54.00	12.21	Average
8	2501.920	28.20	6.47	8.38	43.05	54.00	10.95	Average
9	2669.920	28.83	6.74	5.89	41.46	54.00	12.54	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11n-HT40, Transmit, Frequency: 2422MHz

Site no.	: A/C Chamber	Data no.	: 3
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2422(802.11n-HT40)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	15.13	43.94	74.00	30.06	Peak
2	1334.320	25.27	4.94	15.23	45.44	74.00	28.56	Peak
3	1502.320	25.77	5.43	11.83	43.03	74.00	30.97	Peak
4	2128.960	27.82	6.02	11.31	45.16	74.00	28.84	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no.	: A/C Chamber	Data no.	: 11
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2422(802.11n-HT40)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	10.89	39.70	54.00	14.30	Average
2	1334.320	25.27	4.94	10.83	41.03	54.00	12.97	Average
3	1502.320	25.77	5.43	9.32	40.52	54.00	13.48	Average
4	2128.960	27.82	6.02	7.20	41.05	54.00	12.95	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2422(802.11n-HT40)

Data no. : 4
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	15.89	44.70	74.00	29.30	Peak
2	1330.960	25.22	4.93	18.98	49.12	74.00	24.88	Peak
3	1502.320	25.77	5.43	17.98	49.18	74.00	24.82	Peak
4	1594.720	26.10	6.12	17.06	49.28	74.00	24.72	Peak
5	1868.560	27.17	6.53	11.67	45.37	74.00	28.63	Peak
6	2666.560	28.83	6.73	10.18	45.74	74.00	28.26	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2422(802.11n-HT40)

Data no. : 12
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	11.67	40.48	54.00	13.52	Average
2	1330.960	25.22	4.93	13.57	43.71	54.00	10.29	Average
3	1502.320	25.77	5.43	11.91	43.11	54.00	10.89	Average
4	1594.720	26.10	6.12	10.93	43.16	54.00	10.84	Average
5	1868.560	27.17	6.53	6.74	40.45	54.00	13.56	Average
6	2666.560	28.83	6.73	5.51	41.08	54.00	12.92	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11n-HT40, Transmit, Frequency: 2437MHz

Site no.	: A/C Chamber	Data no.	: 8
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2437(802.11n-HT40)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	15.96	44.77	74.00	29.23	Peak
2	1330.960	25.22	4.93	11.72	41.87	74.00	32.13	Peak
3	1502.320	25.77	5.43	11.99	43.18	74.00	30.82	Peak
4	1594.720	26.10	6.12	10.94	43.17	74.00	30.83	Peak
5	2128.960	27.82	6.02	9.11	42.95	74.00	31.05	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no.	: A/C Chamber	Data no.	: 12
Dis. / Ant.	: 3m 3115(3775)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 23°C/50%	Engineer	: Jarwei Wang
EUT	: LG NB PC M/N:LGX30		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2437(802.11n-HT40)		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	11.35	40.15	54.00	13.85	Average
2	1330.960	25.22	4.93	7.86	38.00	54.00	16.00	Average
3	1502.320	25.77	5.43	9.61	40.81	54.00	13.19	Average
4	1594.720	26.10	6.12	7.84	40.06	54.00	13.94	Average
5	2128.960	27.82	6.02	5.20	39.04	54.00	14.96	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2437(802.11n-HT40)

Data no. : 7
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	15.38	44.18	74.00	29.82	Peak
2	1502.320	25.77	5.43	13.86	45.05	74.00	28.95	Peak
3	1599.760	26.10	6.14	14.84	47.08	74.00	26.92	Peak
4	2031.520	27.73	5.90	10.28	43.91	74.00	30.09	Peak
5	2128.960	27.82	6.02	10.05	43.89	74.00	30.11	Peak
6	2666.560	28.83	6.73	9.04	44.61	74.00	29.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2437(802.11n-HT40)

Data no. : 11
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	11.55	40.36	54.00	13.64	Average
2	1502.320	25.77	5.43	9.59	40.78	54.00	13.22	Average
3	1599.760	26.10	6.14	10.31	42.55	54.00	11.45	Average
4	2031.520	27.73	5.90	6.49	40.12	54.00	13.88	Average
5	2128.960	27.82	6.02	6.78	40.62	54.00	13.38	Average
6	2666.560	28.83	6.73	4.89	40.45	54.00	13.55	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11n-HT40, Transmit, Frequency: 2452MHz

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2452(802.11n-HT40)

Data no. : 12
 Ant. pol. : HORIZONTAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	13.90	42.70	74.00	31.30	Peak
2	1330.960	25.22	4.93	13.47	43.62	74.00	30.38	Peak
3	1502.320	25.77	5.43	14.49	45.68	74.00	28.32	Peak
4	1594.720	26.10	6.12	13.07	45.30	74.00	28.70	Peak
5	2128.960	27.82	6.02	10.26	44.10	74.00	29.90	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2452(802.11n-HT40)

Data no. : 8
 Ant. pol. : HORIZONTAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	9.35	38.15	54.00	15.85	Average
2	1330.960	25.22	4.93	9.91	40.05	54.00	13.95	Average
3	1502.320	25.77	5.43	9.34	40.54	54.00	13.46	Average
4	1594.720	26.10	6.12	9.32	41.54	54.00	12.46	Average
5	2128.960	27.82	6.02	6.63	40.48	54.00	13.52	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2452(802.11n-HT40)

Data no. : 11
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1325.920	25.22	4.91	18.35	48.47	74.00	25.53	Peak
2	1502.320	25.77	5.43	13.51	44.70	74.00	29.30	Peak
3	1599.760	26.10	6.14	15.32	47.56	74.00	26.44	Peak
4	1868.560	27.17	6.53	11.48	45.18	74.00	28.82	Peak
5	2031.520	27.73	5.90	10.39	44.02	74.00	29.98	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2452(802.11n-HT40)

Data no. : 7
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1325.920	25.22	4.91	11.99	42.12	54.00	11.88	Average
2	1502.320	25.77	5.43	9.66	40.86	54.00	13.14	Average
3	1599.760	26.10	6.14	9.90	42.14	54.00	11.86	Average
4	1868.560	27.17	6.53	6.84	40.55	54.00	13.45	Average
5	2031.520	27.73	5.90	7.18	40.81	54.00	13.19	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

802.11n-HT40, Receive, Frequency: 2437MHz

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : RX2437(802.11n-HT40)

Data no. : 3
 Ant. pol. : HORIZONTAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	14.47	43.27	74.00	30.73	Peak
2	1330.960	25.22	4.93	14.75	44.89	74.00	29.11	Peak
3	1502.320	25.77	5.43	15.15	46.35	74.00	27.65	Peak
4	1594.720	26.10	6.12	15.00	47.22	74.00	26.78	Peak
5	2128.960	27.82	6.02	11.77	45.62	74.00	28.38	Peak
6	2397.760	28.10	6.35	11.36	45.81	74.00	28.19	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : RX2437(802.11n-HT40)

Data no. : 9
 Ant. pol. : HORIZONTAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1062.160	24.49	4.31	10.24	39.05	54.00	14.95	Average
2	1330.960	25.22	4.93	10.21	40.35	54.00	13.65	Average
3	1502.320	25.77	5.43	9.86	41.06	54.00	12.94	Average
4	1594.720	26.10	6.12	10.23	42.45	54.00	11.55	Average
5	2128.960	27.82	6.02	6.64	40.49	54.00	13.51	Average
6	2397.760	28.10	6.35	6.53	40.97	54.00	13.03	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : RX2437(802.11n-HT40)

Data no. : 4
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	14.09	42.90	74.00	31.10	Peak
2	1330.960	25.22	4.93	19.79	49.93	74.00	24.07	Peak
3	1502.320	25.77	5.43	15.70	46.90	74.00	27.10	Peak
4	1599.760	26.10	6.14	17.75	49.99	74.00	24.01	Peak
5	1863.520	27.17	6.57	13.69	47.42	74.00	26.58	Peak
6	2137.360	27.84	6.04	11.76	45.63	74.00	28.37	Peak
7	2397.760	28.10	6.35	13.74	48.19	74.00	25.81	Peak
8	2493.520	28.20	6.46	12.23	46.89	74.00	27.11	Peak
9	2658.160	28.83	6.71	9.99	45.54	74.00	28.46	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber
 Dis. / Ant. : 3m 3115(3775)
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/50%
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : RX2437(802.11n-HT40)

Data no. : 10
 Ant. pol. : VERTICAL
 Engineer : Jarwei Wang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1065.520	24.49	4.32	9.44	38.25	54.00	15.76	Average
2	1330.960	25.22	4.93	13.03	43.17	54.00	10.83	Average
3	1502.320	25.77	5.43	10.59	41.78	54.00	12.22	Average
4	1599.760	26.10	6.14	11.50	43.74	54.00	10.26	Average
5	1863.520	27.17	6.57	10.05	43.79	54.00	10.21	Average
6	2137.360	27.84	6.04	6.34	40.21	54.00	13.79	Average
7	2397.760	28.10	6.35	7.71	42.16	54.00	11.84	Average
8	2493.520	28.20	6.46	7.43	42.09	54.00	11.91	Average
9	2658.160	28.83	6.71	4.91	40.45	54.00	13.55	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

3.6.3. Restricted Bands Measurement Results

Date of Test : Nov. 26, 2009 Temperature : 23

EUT : Notebook PC Humidity : 50%

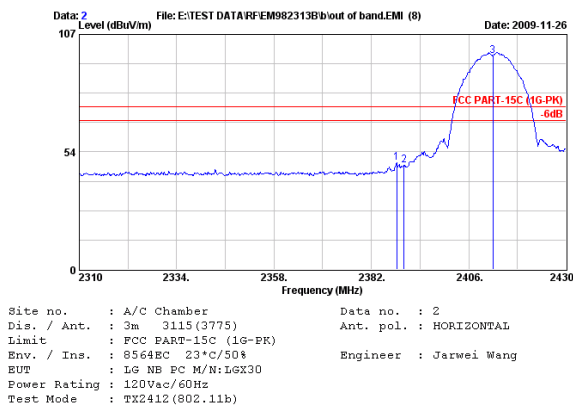
Test Mode : 802.11b, Transmit, Channel: 02, Frequency: 2412MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2388.240	28.10	6.34	14.09	48.53	74.00	25.47
Average *	2386.080	28.10	6.33	1.63	36.06	54.00	17.94

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei
 County, Taiwan, R.O.C. Post Code 24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:temc@ttemc.com.tw

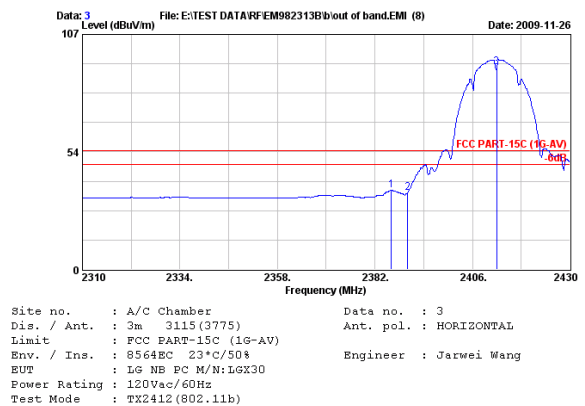


	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2388.240	28.10	6.34	14.09	48.52	74.00	25.48	Peak
2	2390.040	28.10	6.34	13.03	47.47	74.00	26.53	Peak
3	2412.000	28.11	6.36	62.91	97.39	74.00	-23.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei
 County, Taiwan, R.O.C. Post Code 24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:temc@ttemc.com.tw



	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2386.080	28.10	6.33	1.63	36.06	54.00	17.94	Average
2	2390.040	28.10	6.34	0.47	34.91	54.00	19.09	Average
3	2412.000	28.11	6.36	57.73	92.21	54.00	-38.21	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Nov. 26, 2009 Temperature : 23

EUT : Notebook PC Humidity : 50%

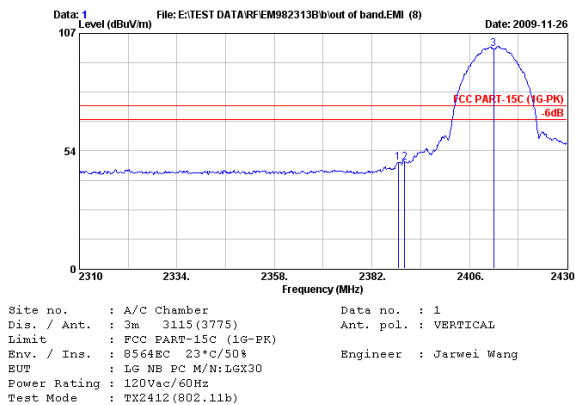
Test Mode : 802.11b, Transmit, Channel: 02, Frequency: 2412MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2388.840	28.10	6.34	13.94	48.38	74.00	25.62
Average *	2386.080	28.10	6.33	2.12	36.55	54.00	17.45

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw

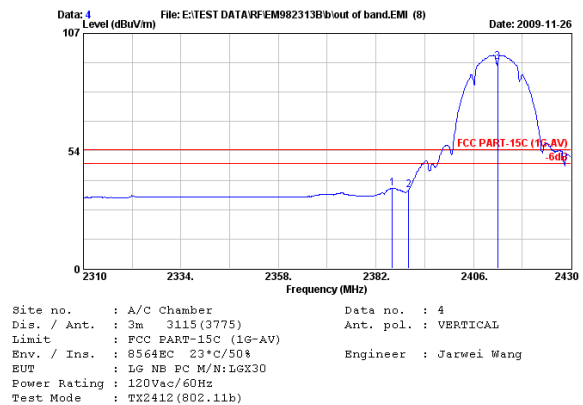


	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2388.480	28.10	6.34	13.94	48.37	74.00	25.63	Peak
2	2390.040	28.10	6.34	13.96	48.40	74.00	25.60	Peak
3	2412.000	28.11	6.36	65.53	100.00	74.00	-26.00	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2386.080	28.10	6.33	2.12	36.55	54.00	17.45	Average
2	2390.040	28.10	6.34	1.22	35.66	54.00	18.34	Average
3	2412.000	28.11	6.36	59.49	93.97	54.00	-39.97	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Nov. 26, 2009 Temperature : 23

EUT : Notebook PC Humidity : 50%

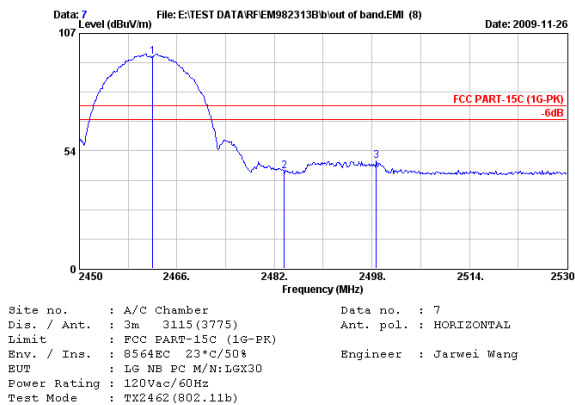
Test Mode : 802.11b, Transmit, Channel: 11, Frequency: 2462MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2498.720	28.20	6.47	14.47	49.14	74.00	24.86
Average *	2488.160	28.20	6.45	-0.13	34.52	54.00	19.48

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw

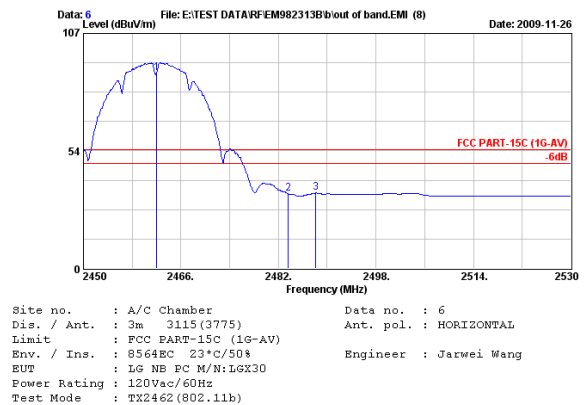


	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2462.000	28.17	6.42	61.89	96.48	74.00	-22.48	Peak
2	2483.600	28.18	6.45	9.76	44.39	74.00	29.61	Peak
3	2498.720	28.20	6.47	14.47	49.14	74.00	24.86	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2462.000	28.17	6.42	54.37	88.95	54.00	-34.95	Average
2	2483.600	28.18	6.45	-0.71	33.93	54.00	20.07	Average
3	2488.160	28.20	6.45	-0.13	34.52	54.00	19.48	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Nov. 26, 2009 Temperature : 23

EUT : Notebook PC Humidity : 50%

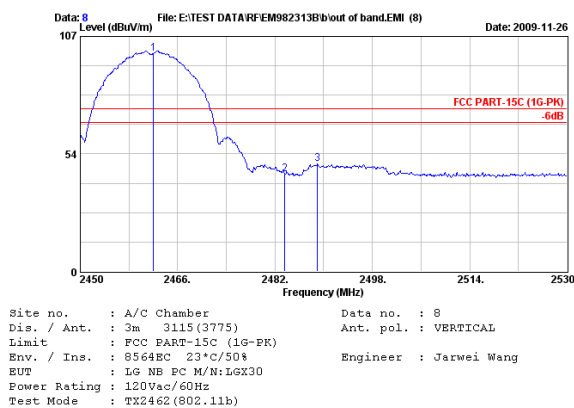
Test Mode : 802.11b, Transmit, Channel: 11, Frequency: 2462MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2488.960	28.20	6.45	14.29	48.94	74.00	25.06
Average *	2483.600	28.18	6.45	1.07	35.70	54.00	18.30

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tan-Fu Tsun, Lin-Kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:temc@temc.com.tw

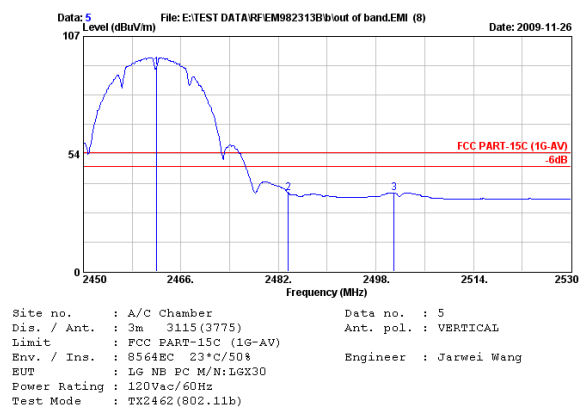


	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2462.000	28.17	6.42	64.66	99.25	74.00	-25.25	Peak
2	2483.600	28.18	6.45	9.79	44.42	74.00	29.58	Peak
3	2488.960	28.20	6.45	14.29	48.94	74.00	25.06	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tan-Fu Tsun, Lin-Kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:temc@temc.com.tw



	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2462.000	28.17	6.42	58.19	92.77	54.00	-38.77	Average
2	2483.600	28.18	6.45	1.07	35.71	54.00	18.29	Average
3	2500.960	28.20	6.47	0.98	35.65	54.00	18.35	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Nov. 26, 2009 Temperature : 23

EUT : Notebook PC Humidity : 50%

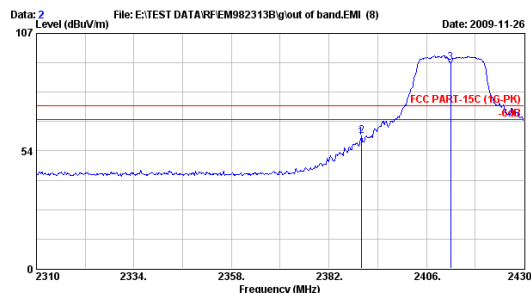
Test Mode : 802.11g, Transmit, Channel: 02, Frequency: 2412MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2389.920	28.10	6.34	25.01	59.45	74.00	14.55
Average *	2389.920	28.10	6.34	6.48	40.92	54.00	13.08

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



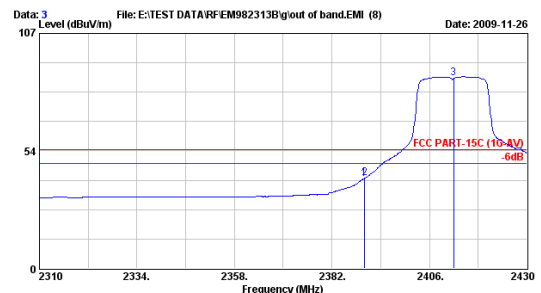
Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m 3115 (3775) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564BC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N: LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2412 (802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.920	28.10	6.34	25.01	59.45	74.00	14.55	Peak
2	2390.040	28.10	6.34	25.86	60.30	74.00	13.70	Peak
3	2412.000	28.11	6.36	59.38	93.86	74.00	-19.86	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



Site no. : A/C Chamber Data no. : 3
 Dis. / Ant. : 3m 3115 (3775) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564BC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N: LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2412 (802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.920	28.10	6.34	6.48	40.92	54.00	13.08	Average
2	2390.040	28.10	6.34	6.59	41.03	54.00	12.97	Average
3	2412.000	28.11	6.36	51.98	86.46	54.00	-32.46	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Nov. 26, 2009 Temperature : 23

EUT : Notebook PC Humidity : 50%

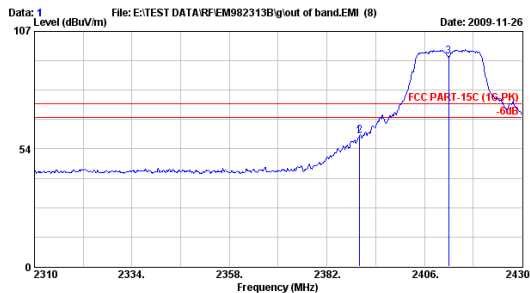
Test Mode : 802.11g, Transmit, Channel: 02, Frequency: 2412MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2389.920	28.10	6.34	24.70	59.14	74.00	14.86
Average *	2389.920	28.10	6.34	8.28	42.72	54.00	11.28

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



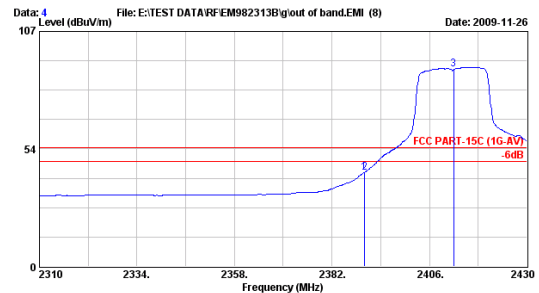
Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m 3115 (3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2412(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.920	28.10	6.34	24.70	59.14	74.00	14.86	Peak
2	2390.040	28.10	6.34	25.12	59.56	74.00	14.44	Peak
3	2412.000	28.11	6.36	61.07	95.54	74.00	-21.54	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Site no. : A/C Chamber Data no. : 4
 Dis. / Ant. : 3m 3115 (3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N:LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2412(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.920	28.10	6.34	8.28	42.72	54.00	11.28	Average
2	2390.040	28.10	6.34	8.40	42.84	54.00	11.16	Average
3	2412.000	28.11	6.36	55.13	89.60	54.00	-35.60	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Nov. 26, 2009 Temperature : 23

EUT : Notebook PC Humidity : 50%

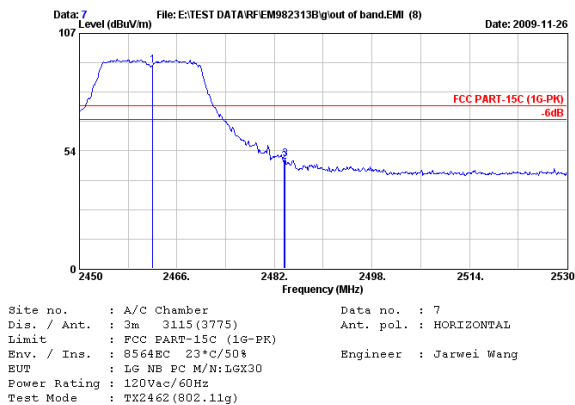
Test Mode : 802.11g, Transmit, Channel: 11, Frequency: 2462MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2483.760	28.18	6.45	15.32	49.95	74.00	24.05
Average *	2483.600	28.18	6.45	0.23	34.86	54.00	19.14

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw

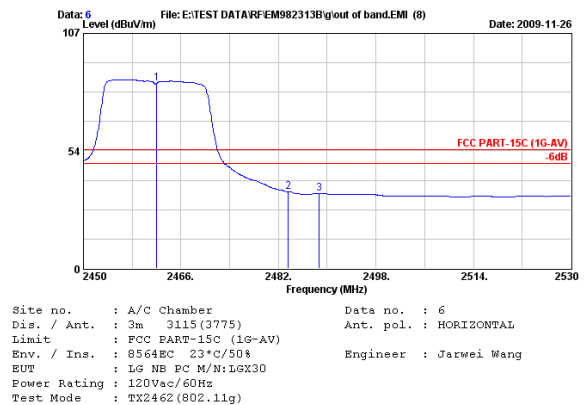


	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2462.000	28.17	6.42	57.92	92.51	74.00	-18.51	Peak
2	2483.600	28.18	6.45	13.80	48.43	74.00	25.57	Peak
3	2483.760	28.18	6.45	15.32	49.95	74.00	24.05	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2462.000	28.17	6.42	49.55	84.14	54.00	-30.14	Average
2	2483.600	28.18	6.45	0.23	34.87	54.00	19.13	Average
3	2488.720	28.20	6.45	-0.56	34.10	54.00	19.90	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Nov. 26, 2009 Temperature : 23

EUT : Notebook PC Humidity : 50%

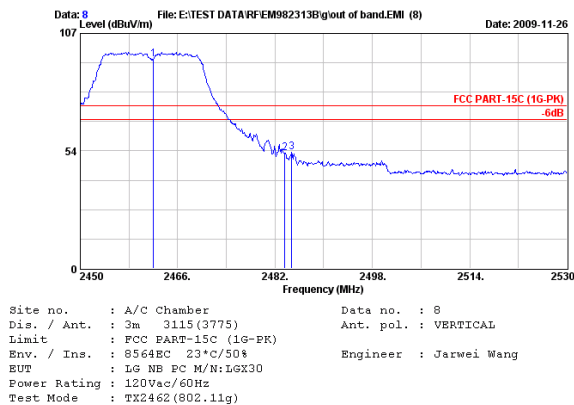
Test Mode : 802.11g, Transmit, Channel: 11, Frequency: 2462MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2484.720	28.18	6.45	18.35	52.98	74.00	21.02
Average *	2483.600	28.18	6.45	3.32	37.95	54.00	16.05

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tan-Fu Tsun, Lin-Kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:temc@temc.com.tw

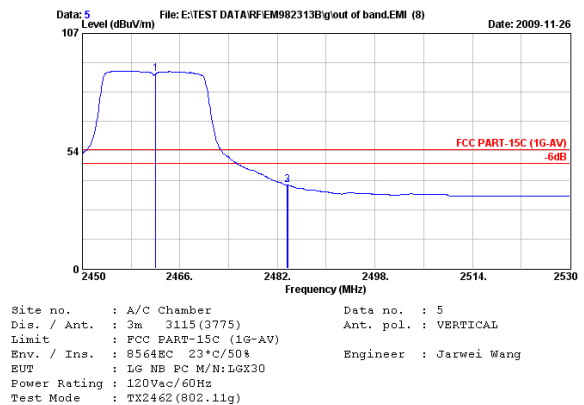


	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2462.000	28.17	6.42	60.85	95.44	74.00	-21.44	Peak
2	2483.600	28.18	6.45	17.85	52.49	74.00	21.51	Peak
3	2484.720	28.18	6.45	18.35	52.98	74.00	21.02	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tan-Fu Tsun, Lin-Kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:temc@temc.com.tw



	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2462.000	28.17	6.42	53.93	88.51	54.00	-34.51	Average
2	2483.600	28.18	6.45	3.32	37.96	54.00	16.04	Average
3	2483.680	28.18	6.45	3.31	37.95	54.00	16.05	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Nov. 26, 2009 Temperature : 23

EUT : Notebook PC Humidity : 50%

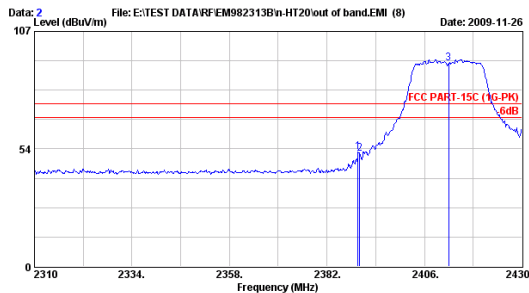
Test Mode : 802.11n-HT20, Transmit, Channel: 02, Frequency: 2412MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2389.680	28.10	6.34	17.72	52.16	74.00	21.84
Average *	2389.920	28.10	6.34	1.70	36.14	54.00	17.86

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



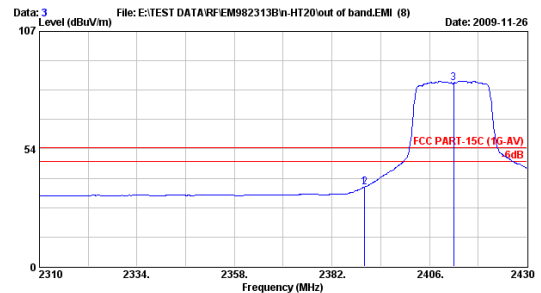
Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m 3115 (3775) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564BC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N: LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2412 (802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.680	28.10	6.34	17.72	52.16	74.00	21.84	Peak
2	2390.040	28.10	6.34	17.02	51.46	74.00	22.54	Peak
3	2412.000	28.11	6.36	57.87	92.34	74.00	-18.34	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Site no. : A/C Chamber Data no. : 3
 Dis. / Ant. : 3m 3115 (3775) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564BC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N: LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2412 (802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.920	28.10	6.34	1.70	36.14	54.00	17.86	Average
2	2390.040	28.10	6.34	1.77	36.21	54.00	17.79	Average
3	2412.000	28.11	6.36	49.12	83.59	54.00	-29.59	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Nov. 26, 2009 Temperature : 23

EUT : Notebook PC Humidity : 50%

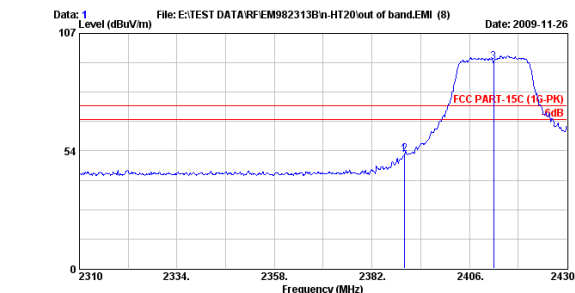
Test Mode : 802.11n-HT20, Transmit, Channel: 02, Frequency: 2412MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2389.920	28.10	6.34	17.39	51.83	74.00	22.17
Average *	2389.920	28.10	6.34	2.60	37.04	54.00	16.96

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



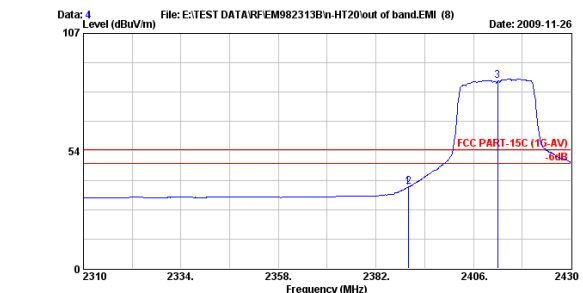
Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m 3115 (3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N: LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2412 (802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.920	28.10	6.34	17.39	51.83	74.00	22.17	Peak
2	2390.040	28.10	6.34	17.74	52.18	74.00	21.82	Peak
3	2412.000	28.11	6.36	59.78	94.26	74.00	-20.26	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Site no. : A/C Chamber Data no. : 4
 Dis. / Ant. : 3m 3115 (3775) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N: LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2412 (802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.920	28.10	6.34	2.60	37.03	54.00	16.97	Average
2	2390.040	28.10	6.34	2.66	37.10	54.00	16.90	Average
3	2412.000	28.11	6.36	50.79	85.26	54.00	-31.26	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Nov. 26, 2009 Temperature : 23

EUT : Notebook PC Humidity : 50%

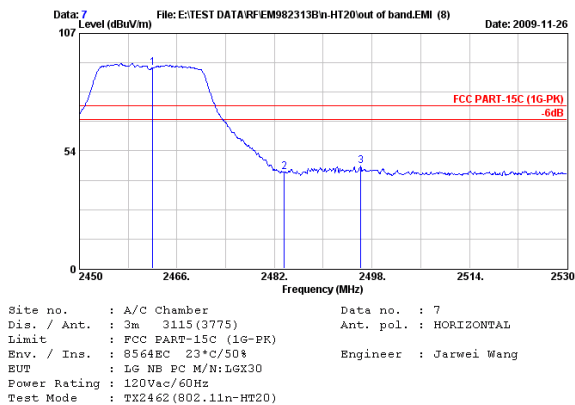
Test Mode : 802.11n-HT20, Transmit, Channel: 11, Frequency: 2462MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2496.160	28.20	6.46	11.83	46.49	74.00	27.51
Average *	2483.600	28.18	6.45	-1.19	33.44	54.00	20.56

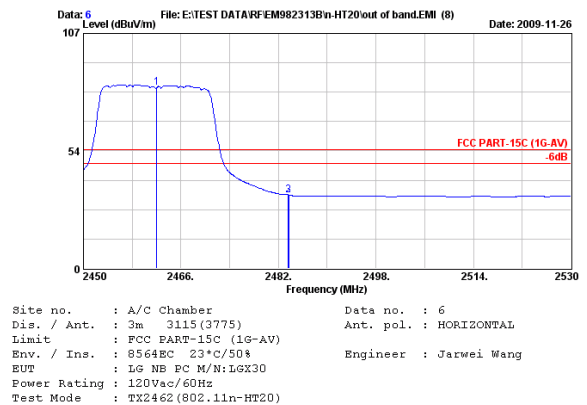
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Date of Test : Nov. 26, 2009 Temperature : 23

EUT : Notebook PC Humidity : 50%

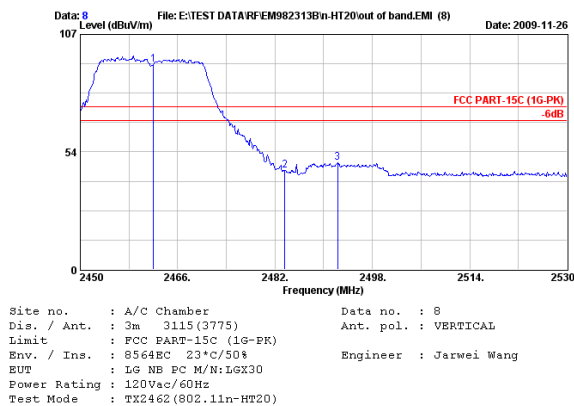
Test Mode : 802.11n-HT20, Transmit, Channel: 11, Frequency: 2462MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2492.320	28.20	6.46	13.79	48.45	74.00	25.55
Average *	2483.600	28.18	6.45	0.44	35.07	54.00	18.93

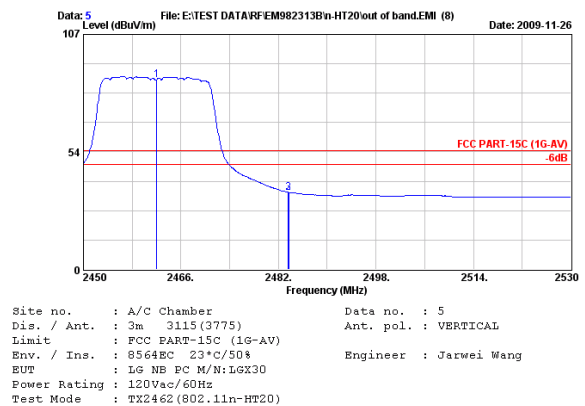
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel: +886-2-26092133 Fax: +886-2-26099303
 Email: itemc@itemc.com.tw



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel: +886-2-26092133 Fax: +886-2-26099303
 Email: itemc@itemc.com.tw



Date of Test : Nov. 26, 2009 Temperature : 23

EUT : Notebook PC Humidity : 50%

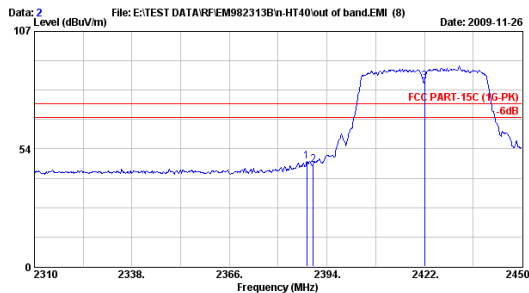
Test Mode : 802.11n-HT40, Transmit, Channel: 02, Frequency: 2422MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2388.260	28.10	6.34	13.52	47.96	74.00	26.04
Average *	2389.940	28.10	6.34	2.30	36.74	54.00	17.26

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



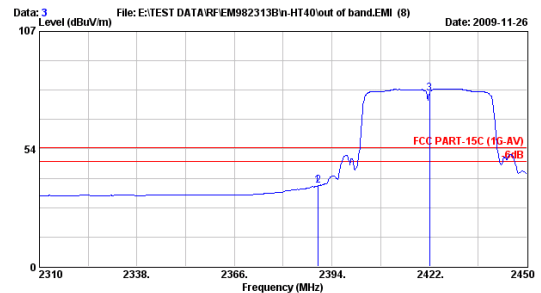
Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m 3115 (3775) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564BC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N: LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2422 (802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2388.260	28.10	6.34	13.52	47.95	74.00	26.05	Peak
2	2390.080	28.10	6.34	11.89	46.33	74.00	27.67	Peak
3	2422.000	28.13	6.37	49.64	84.15	74.00	-10.15	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Site no. : A/C Chamber Data no. : 3
 Dis. / Ant. : 3m 3115 (3775) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564BC 23°C/50% Engineer : Jarwei Wang
 EUT : LG NB PC M/N: LGX30
 Power Rating : 120Vac/60Hz
 Test Mode : TX2422 (802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.940	28.10	6.34	2.30	36.74	54.00	17.26	Average
2	2390.080	28.10	6.34	2.40	36.84	54.00	17.16	Average
3	2422.000	28.13	6.37	44.38	78.89	54.00	-24.89	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Nov. 26, 2009 Temperature : 23

EUT : Notebook PC Humidity : 50%

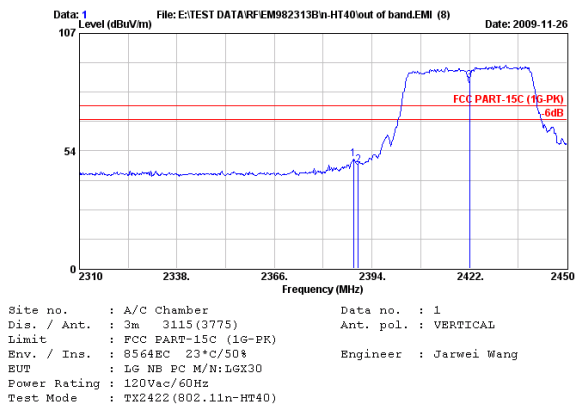
Test Mode : 802.11n-HT40, Transmit, Channel: 02, Frequency: 2422MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2388.680	28.10	6.34	15.21	49.65	74.00	24.35
Average *	2389.940	28.10	6.34	1.88	36.32	54.00	17.68

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw

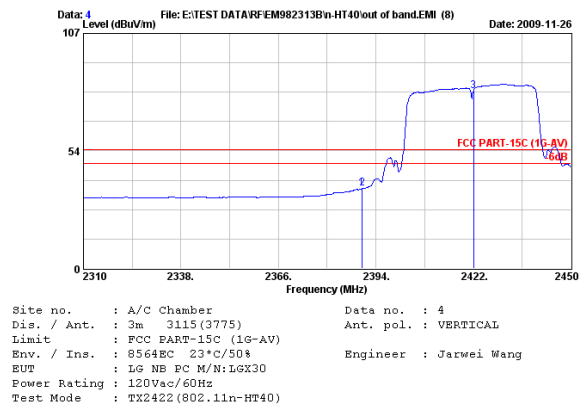


	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2388.680	28.10	6.34	15.21	49.64	74.00	24.36	Peak
2	2390.080	28.10	6.34	12.79	47.23	74.00	26.77	Peak
3	2422.000	28.13	6.37	51.06	85.56	74.00	-11.56	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.940	28.10	6.34	1.88	36.32	54.00	17.68	Average
2	2390.080	28.10	6.34	1.96	36.40	54.00	17.60	Average
3	2422.000	28.13	6.37	46.34	80.84	54.00	-26.84	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Nov. 26, 2009 Temperature : 23

EUT : Notebook PC Humidity : 50%

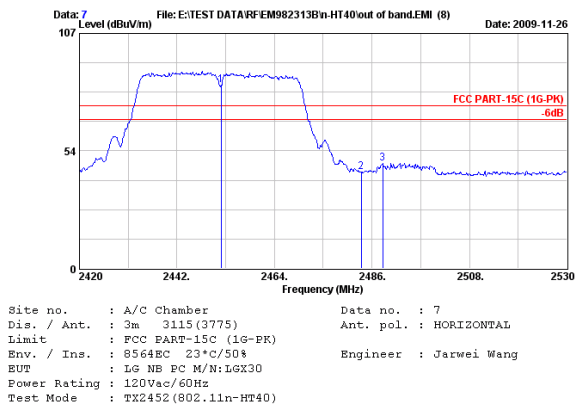
Test Mode : 802.11n-HT40, Transmit, Channel: 11, Frequency: 2452MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2488.420	28.20	6.45	13.12	47.77	74.00	26.23
Average *	2485.120	28.18	6.45	-1.49	33.14	54.00	20.86

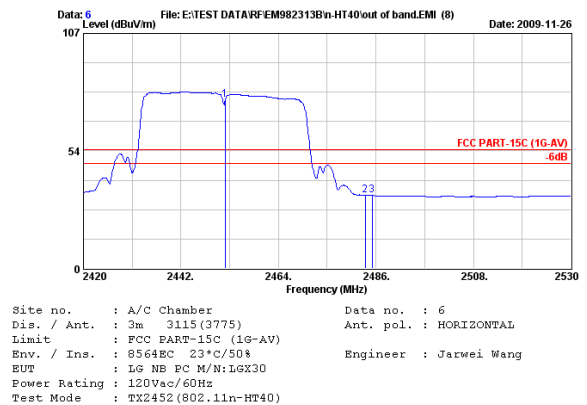
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Date of Test : Nov. 26, 2009 Temperature : 23

EUT : Notebook PC Humidity : 50%

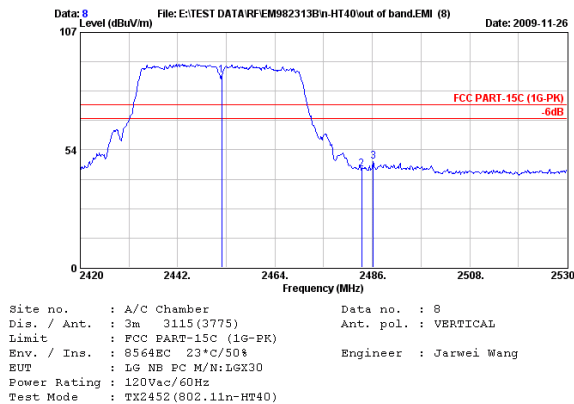
Test Mode : 802.11n-HT40, Transmit, Channel: 11, Frequency: 2452MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2486.220	28.18	6.45	13.53	48.16	74.00	25.84
Average *	2485.120	28.18	6.45	1.12	35.75	54.00	18.25

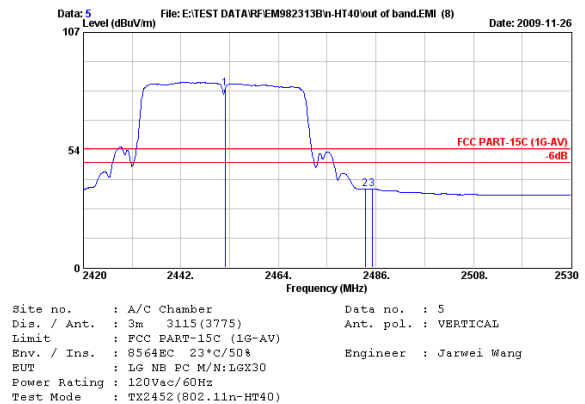
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel: +886-2-26092133 Fax: +886-2-26099303
 Email: itemc@itemc.com.tw



AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel: +886-2-26092133 Fax: +886-2-26099303
 Email: itemc@itemc.com.tw



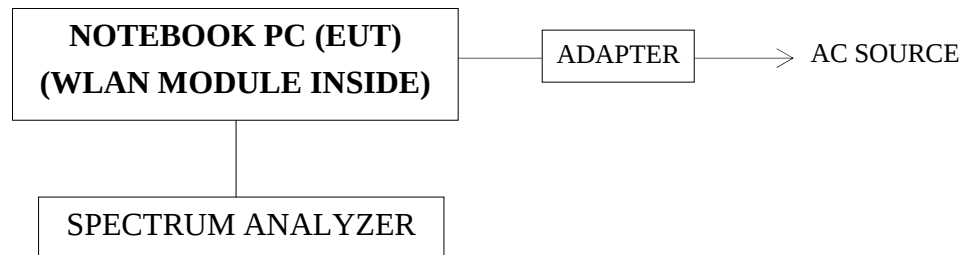
4. 6dB BANDWIDTH MEASUREMENT

4.1. Test Equipment

The following test equipment was used during the Emission Bandwidth measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Jul. 23, 09'	Jul. 22, 10'

4.2. Block Diagram of Test Setup



4.3. Specification Limits (§15.247(a)(2))

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

4.4. Operating Condition of EUT

The test program "Realtek WLAN Diagnostic Program V 0.00250.0724.2009" was used to enable the EUT to transmit data at different channel frequency individually.

4.5. Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

The measurement guideline was according to KDB 558074.

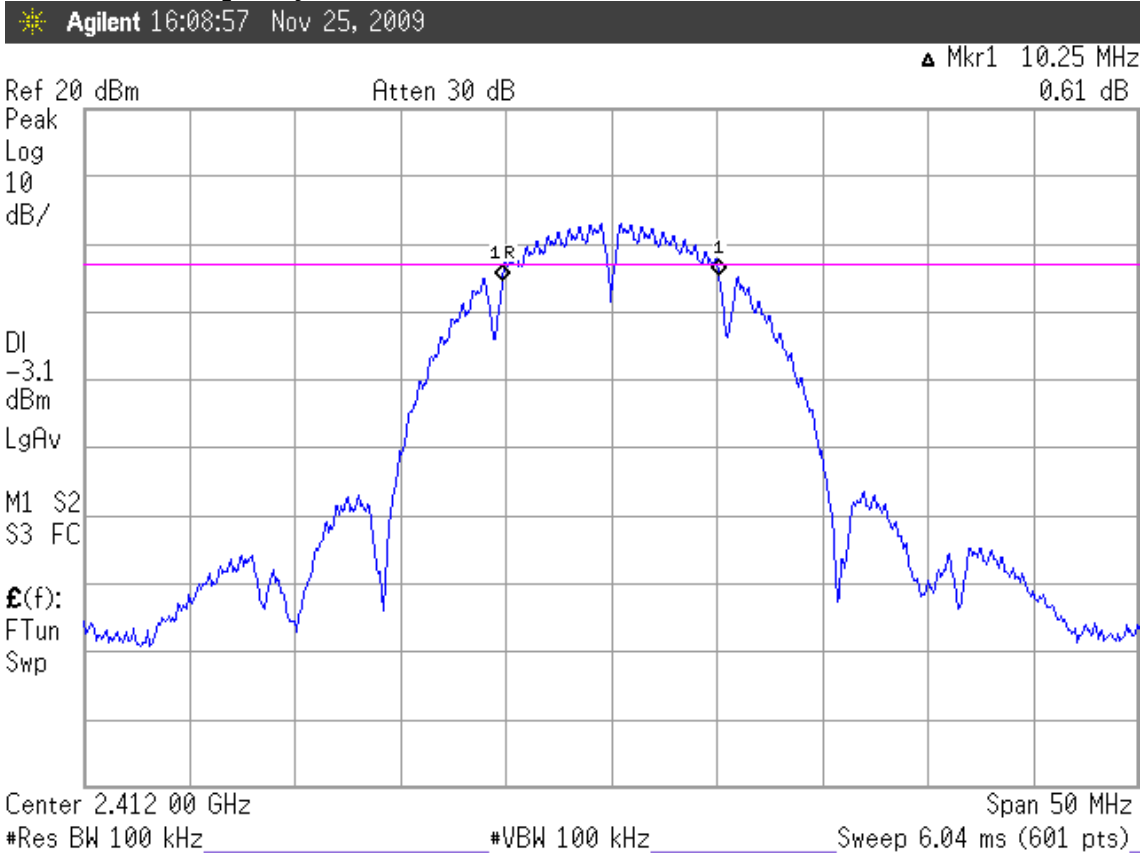
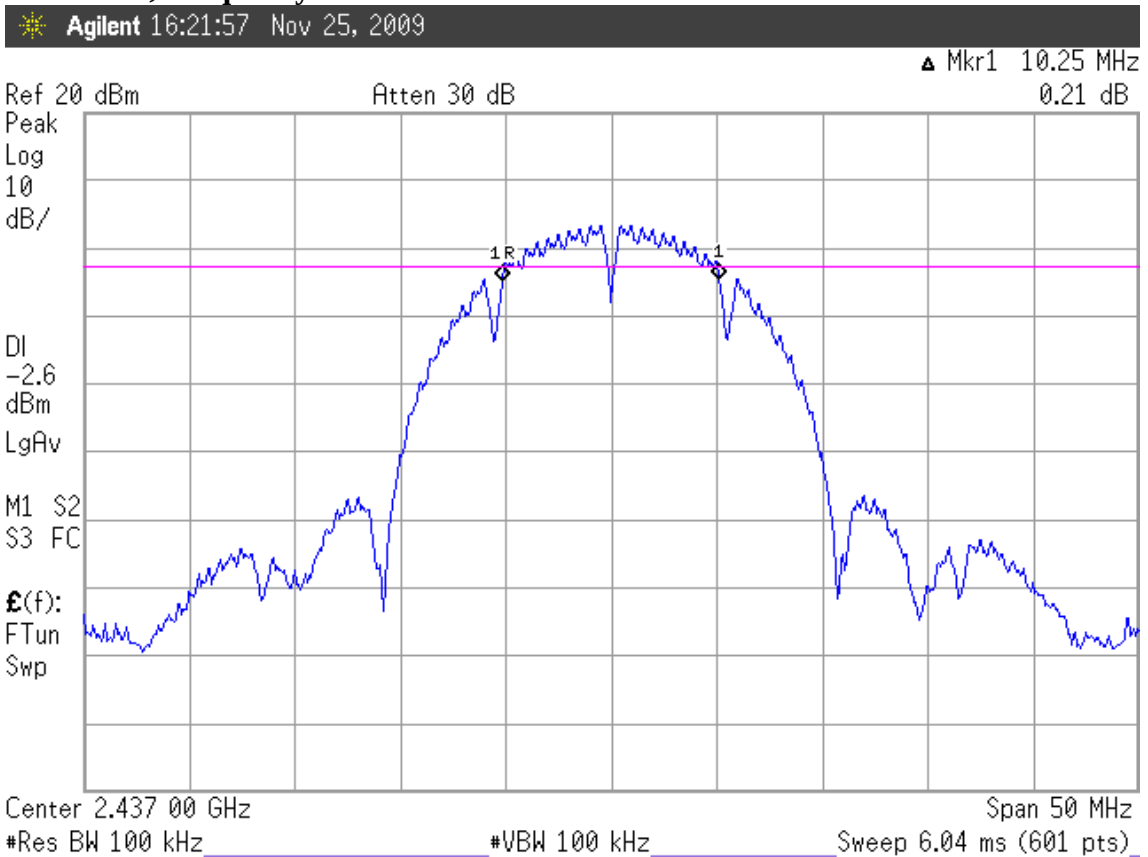
4.6. Test Results

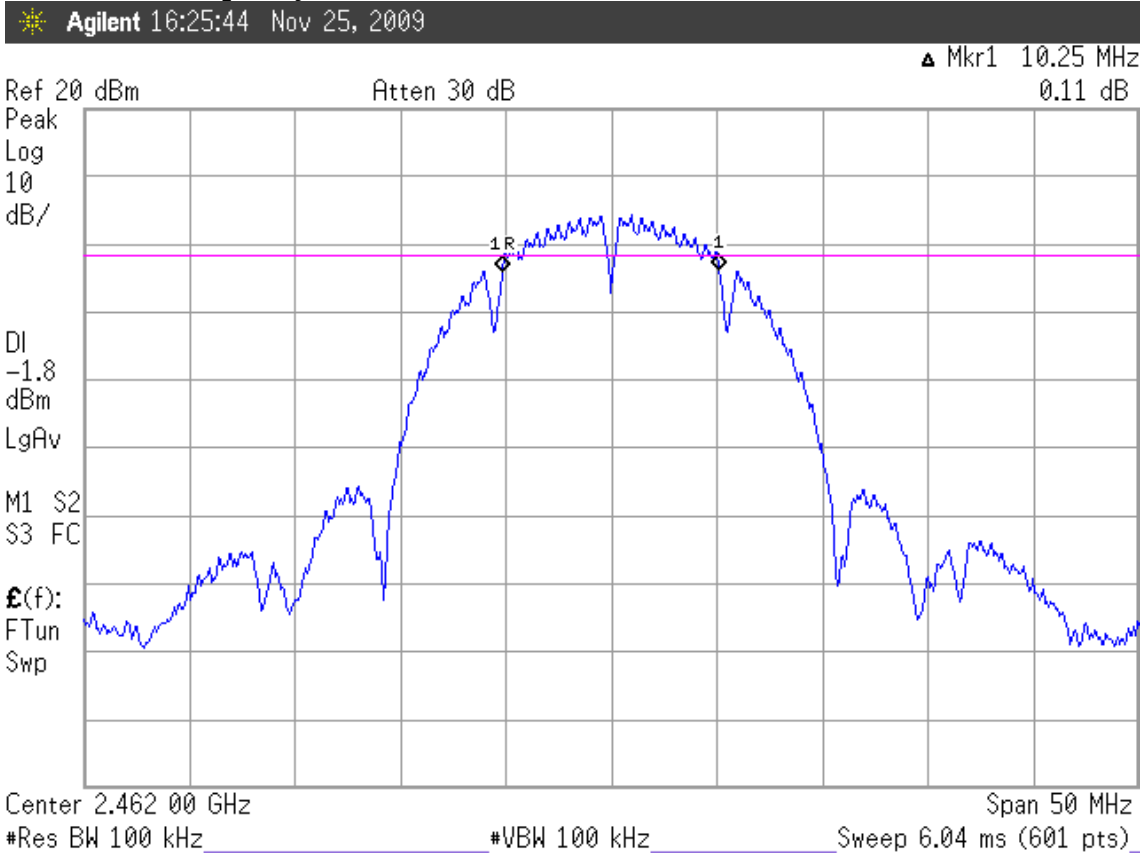
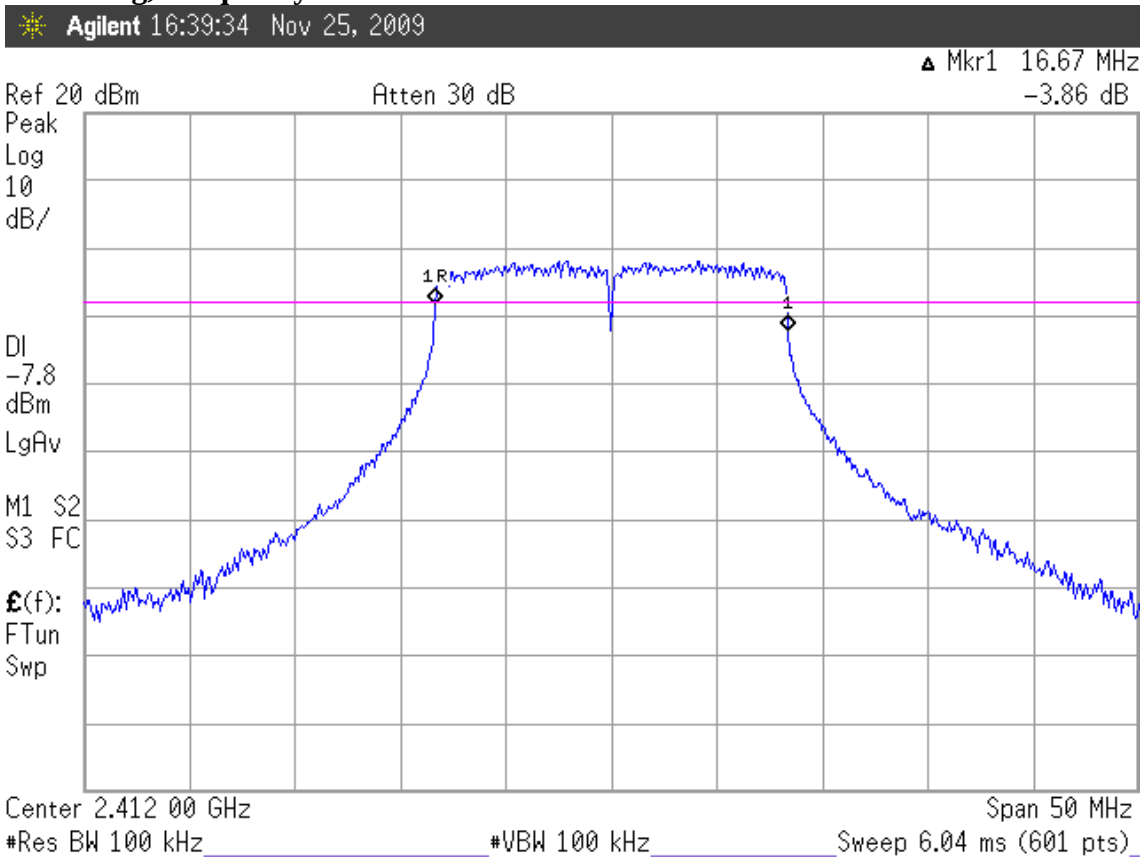
PASSED. All the test results are attached in next pages.

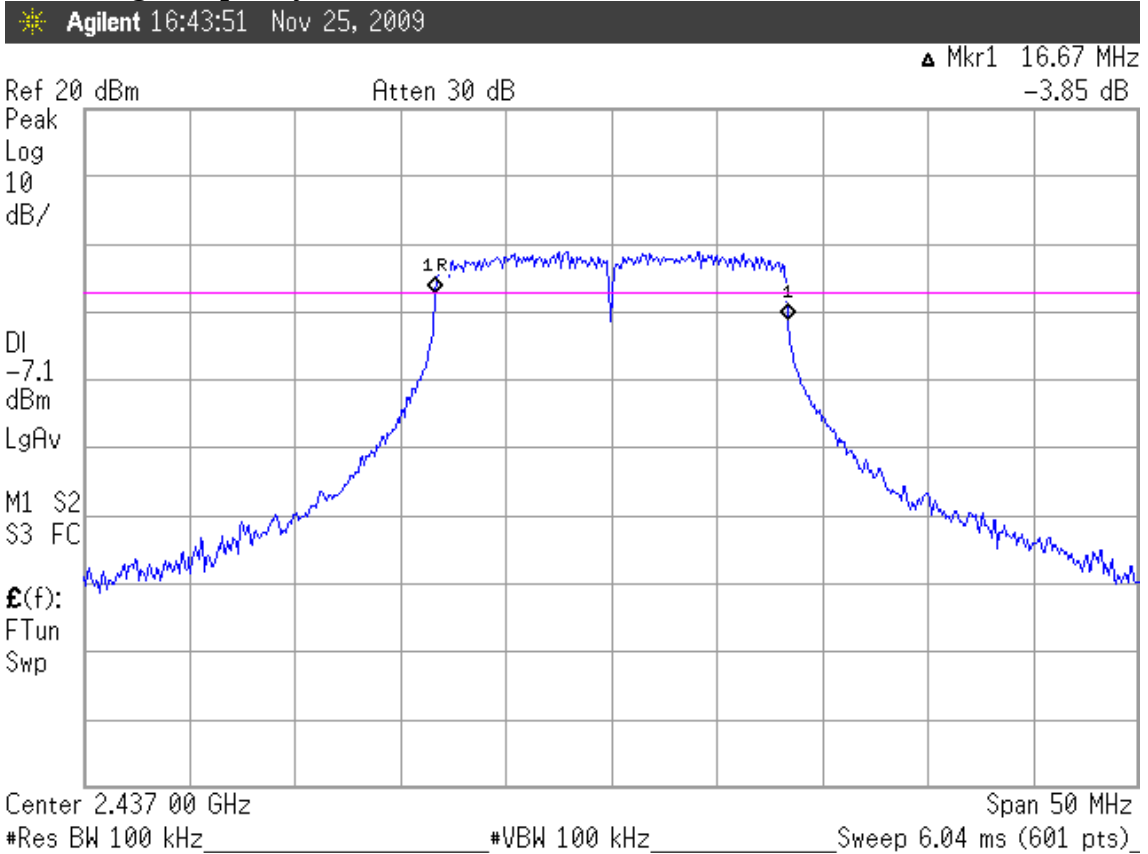
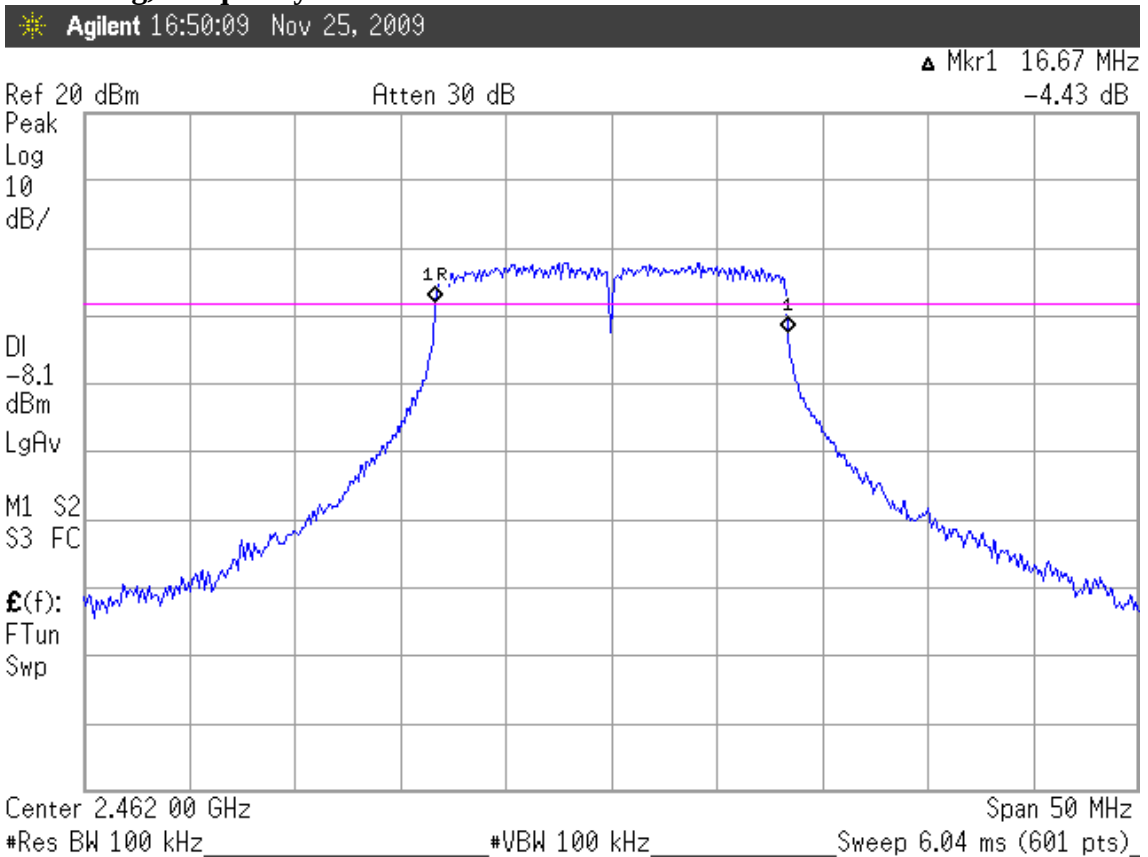
(Test Date : Nov. 25, 2009 Temperature : 26 Humidity : 55%)

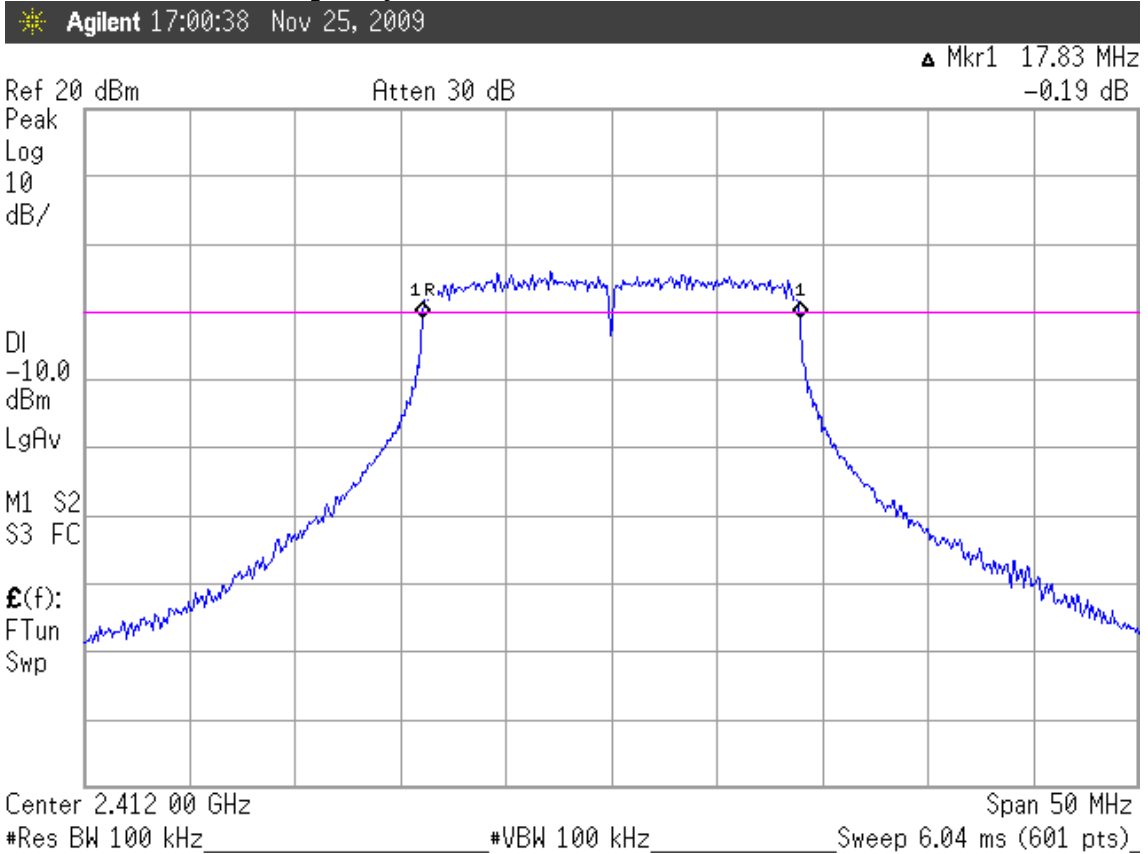
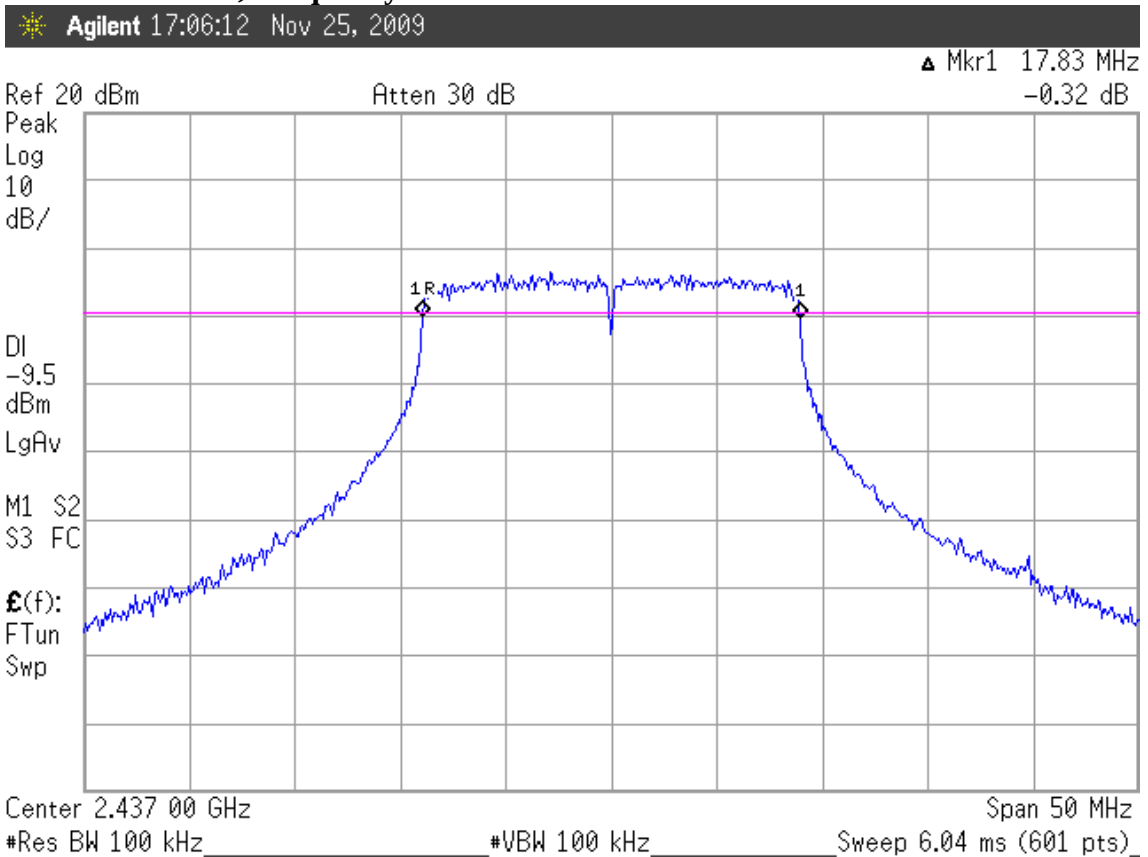
Mode	Type of Network	Channel	Frequency	6dB Bandwidth
1.	802.11b	CH 1	2412MHz	10.25MHz
2.		CH 6	2437MHz	10.25MHz
3.		CH 11	2462MHz	10.25MHz
4.	802.11g	CH 1	2412MHz	16.67MHz
5.		CH 6	2437MHz	16.67MHz
6.		CH 11	2462MHz	16.67MHz
7.	802.11n-HT20	CH 1	2412MHz	17.83MHz
8.		CH 6	2437MHz	17.83MHz
9.		CH 11	2462MHz	17.83MHz
10.	802.11n-HT40	CH 3	2422MHz	36.53MHz
11.		CH 6	2437MHz	36.53MHz
12.		CH 9	2452MHz	36.53MHz

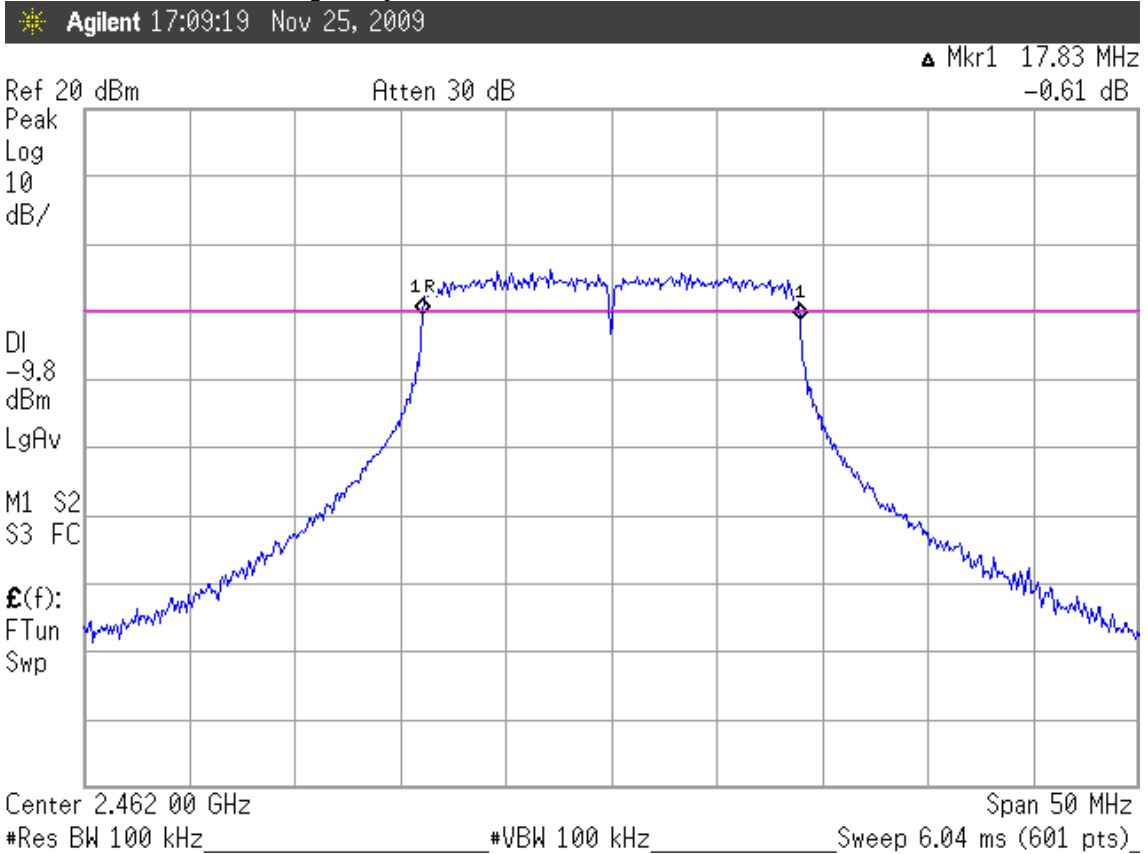
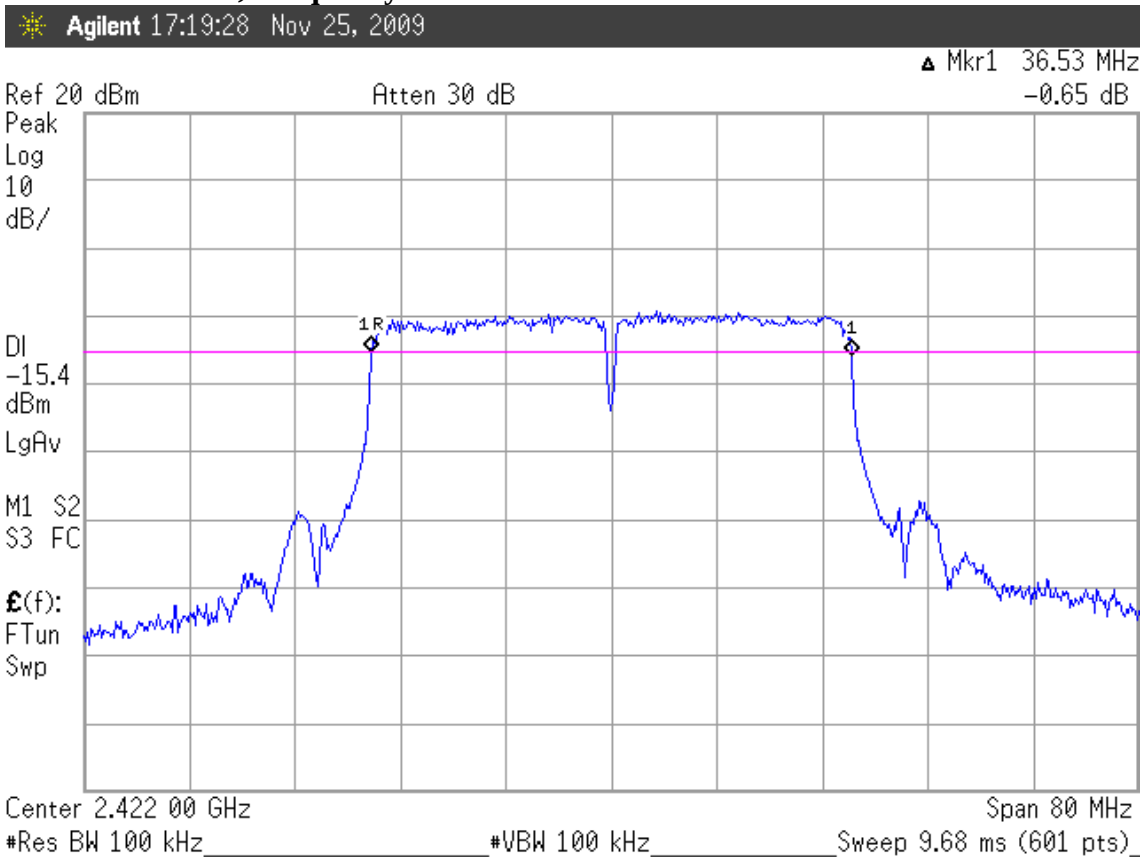
[Limit: least 500kHz]

802.11b, Frequency: 2412MHz**802.11b, Frequency: 2437MHz**

802.11b, Frequency: 2462MHz**802.11g, Frequency: 2412MHz**

802.11g, Frequency: 2437MHz**802.11g, Frequency: 2462MHz**

802.11n-HT20, Frequency: 2412MHz**802.11n-HT20, Frequency: 2437MHz**

802.11n-HT20, Frequency: 2462MHz**802.11n-HT40, Frequency: 2422MHz**

802.11n-HT40, Frequency: 2437MHz

Agilent 17:26:47 Nov 25, 2009

▲ Mkr1 36.53 MHz
-0.89 dB

Ref 20 dBm

Atten 30 dB

Peak
Log
10
dB/

DI
-15.0
dBm
LgAv

M1 S2
S3 FC

$\mathcal{E}(f)$:
FTun
Swp

Center 2.437 00 GHz

Span 80 MHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 9.68 ms (601 pts)

802.11n-HT40, Frequency: 2452MHz

Agilent 17:30:26 Nov 25, 2009

▲ Mkr1 36.67 MHz
5.02 dB

Ref 20 dBm

Atten 30 dB

Peak
Log
10
dB/

DI
-15.0
dBm
LgAv

M1 S2
S3 FC

$\mathcal{E}(f)$:
FTun
Swp

Center 2.452 00 GHz

Span 80 MHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 9.68 ms (601 pts)

5. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

5.1. Test Equipment

The following test equipment was used during the maximum peak output power measurement:

5.1.1. For 802.11b/802.11g/802.11n-HT20

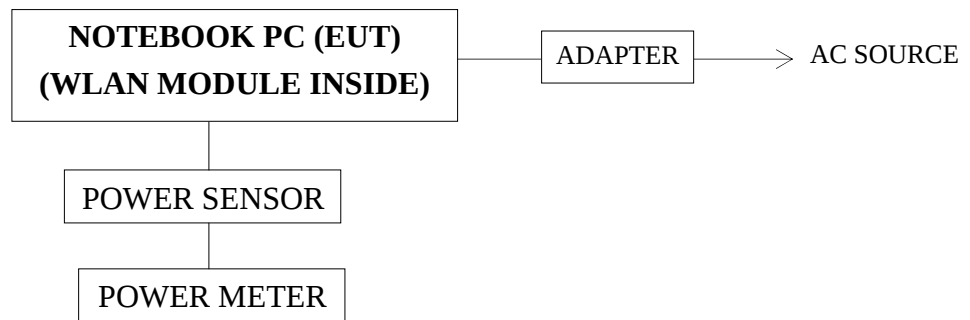
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Power Meter	Anritsu	ML2487A	6K00005406	Feb. 19, 09'	Feb. 18, 10'
2.	Power Sensor	Anritsu	MA2491A	030873	Feb. 19, 09'	Feb. 18, 10'

5.1.2. For 802.11n-HT40

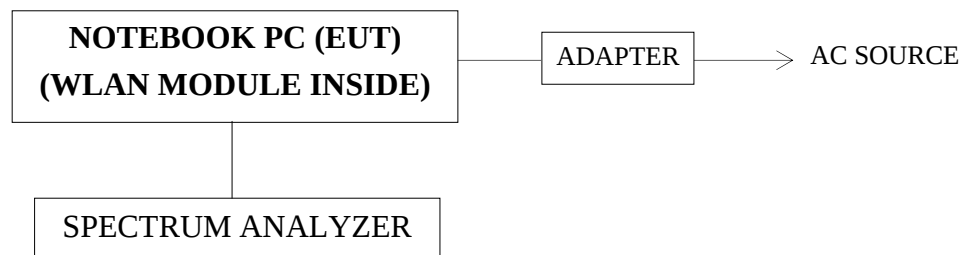
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Jul. 23, 09'	Jul. 22, 10'

5.2. Block Diagram of Test Setup

5.2.1. For 802.11b/802.11g/802.11n-HT20



5.2.2. For 802.11n-HT40



5.3. Specification Limits (§15.247(b)-(3))

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz is : 1Watt. (30dBm)

5.4. Operating Condition of EUT

The test program “Realtek WLAN Diagnostic Program V 0.00250.0724.2009” was used to enable the EUT to transmit data at different channel frequency individually.

5.5. Test Procedure

5.5.1. For 802.11b/802.11g/802.11n-HT20

The test program “Realtek WLAN Diagnostic Program V 0.00250.0724.2009” was used to enable the EUT to transmit data at different channel frequency individually.

The measurement guideline was according to KDB 558074.

5.5.2. For 802.11n-HT40

Setting the spectrum span to encompass the EBW, RBW=1MHz and VBW=3MHz. Compute power by integrating the spectrum across the 26 dB EBW of the signal.

The measurement guideline was according to KDB 558074.

5.6. Test Results

PASSED. All the test results are listed below.

(Test Date : Nov. 25, 2009 Temperature : 26 Humidity : 55%)

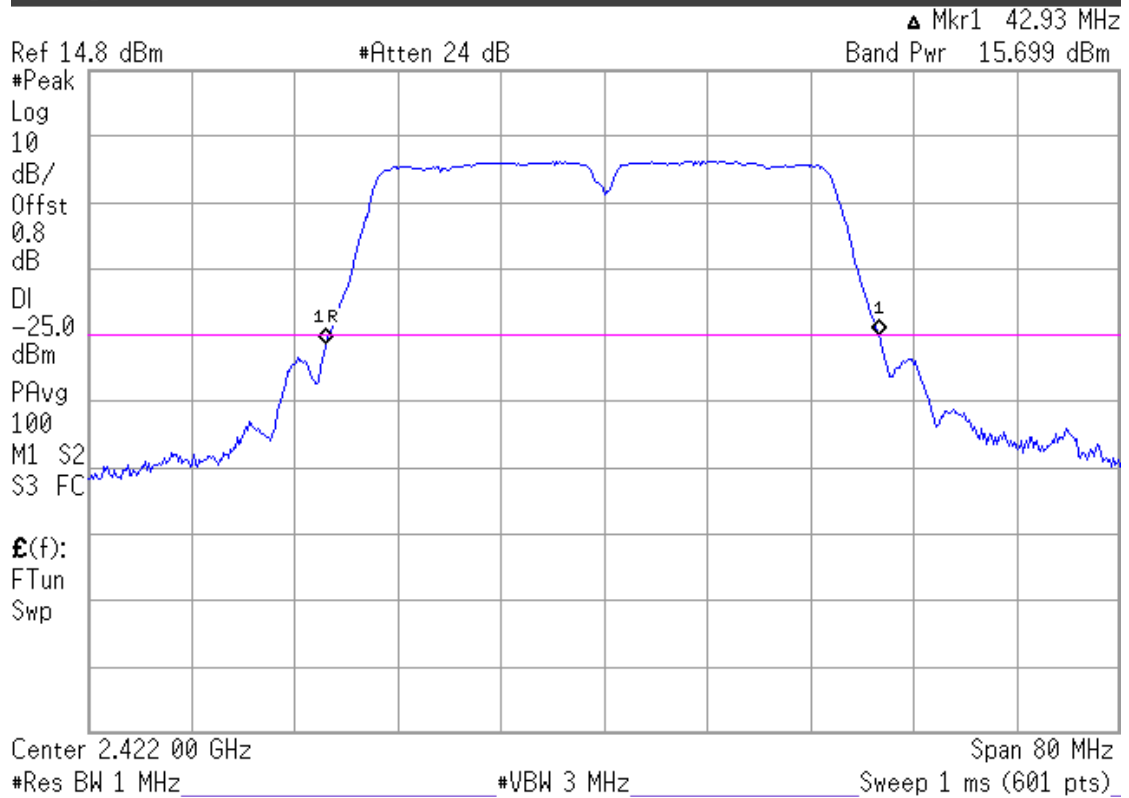
(Test Date : Dec. 10, 2009 Temperature : 26 Humidity : 54%)

Mode	Type of Network	Channel	Frequency	Peak Output Power (dBm)
1.	802.11b	CH 1	2412MHz	15.74dBm
2.		CH 6	2437MHz	16.03dBm
3.		CH 11	2462MHz	16.35dBm
4.	802.11g	CH 1	2412MHz	21.85dBm
5.		CH 6	2437MHz	22.05dBm
6.		CH 11	2462MHz	21.44dBm
7.	802.11n-HT20	CH 1	2412MHz	20.39dBm
8.		CH 6	2437MHz	20.63dBm
9.		CH 11	2462MHz	20.67dBm
10.	802.11n-HT40	CH 3	2422MHz	15.699dBm
11.		CH 6	2437MHz	15.861dBm
12.		CH 9	2452MHz	16.189dBm

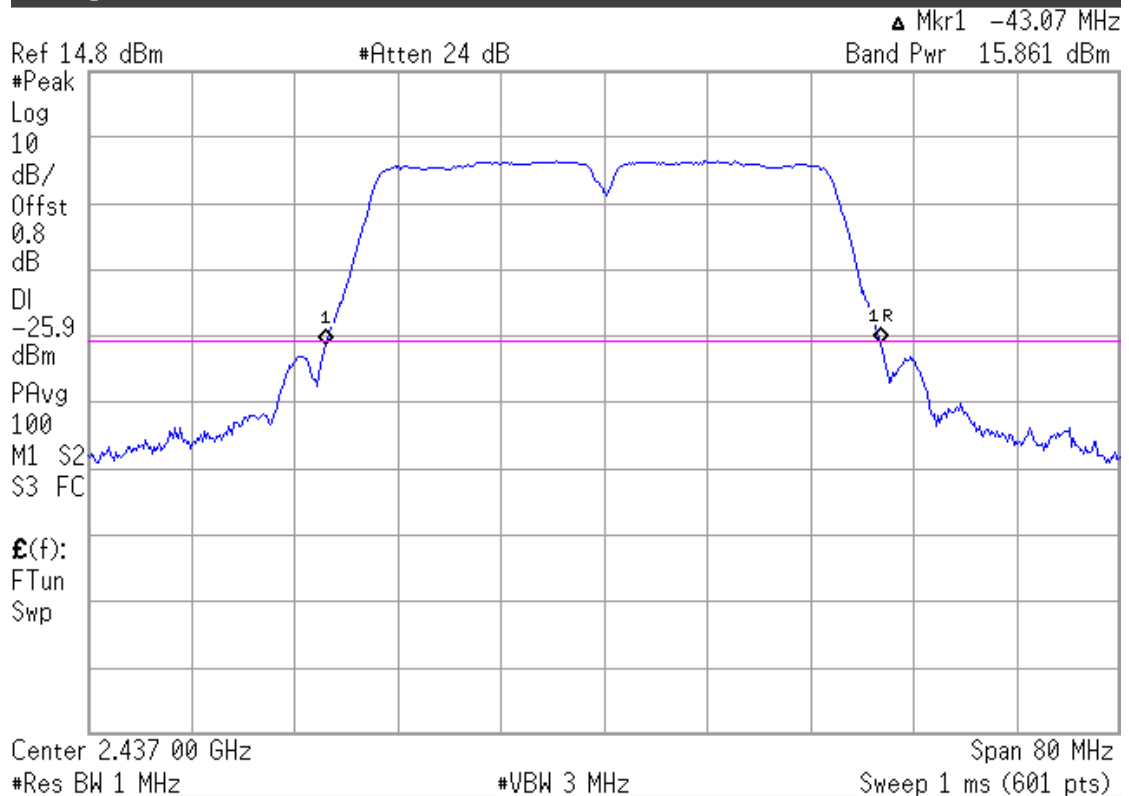
[Limit: 1Watt. (30dBm)]

802.11n-HT40, Frequency: 2422MHz

Agilent 15:54:37 Dec 10, 2009

**802.11n-HT40, Frequency: 2437MHz**

Agilent 15:53:42 Dec 10, 2009



802.11n-HT40, Frequency: 2452MHz

Agilent 15:52:39 Dec 10, 2009

▲ Mkr1 -43.33 MHz

Band Pwr 16.189 dBm

Ref 14.8 dBm

#Atten 24 dB

#Peak

Log

10

dB/

Offst

0.8

dB

DI

-25.7

dBm

PAvg

100

M1 S2

S3 FC

E(f):

FTun

Swp

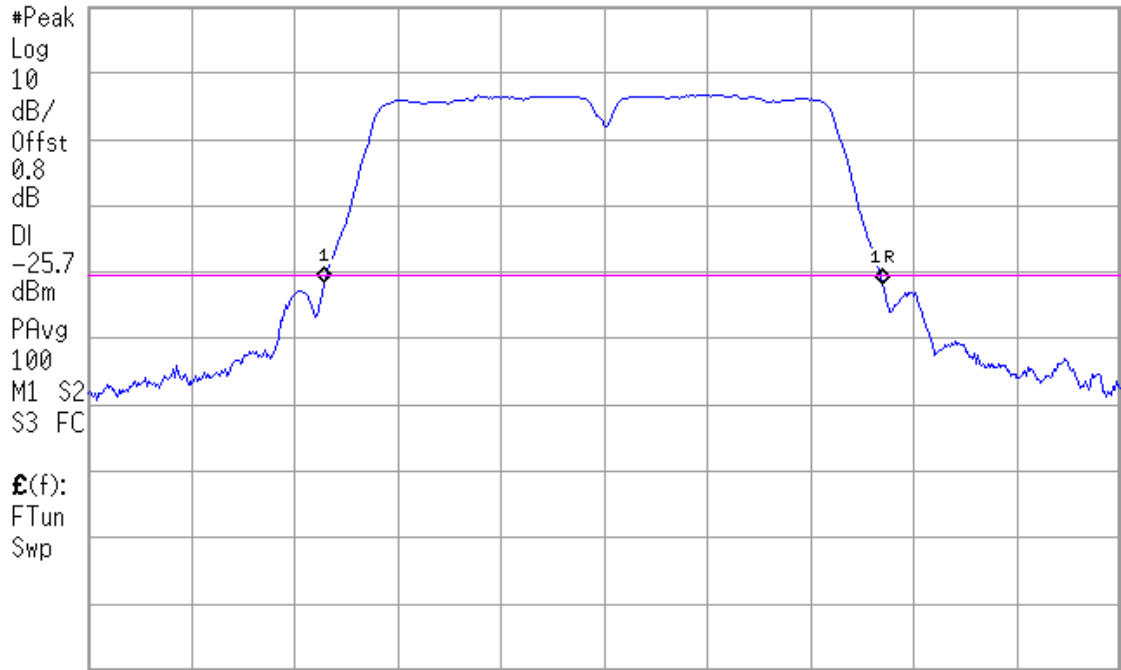
Center 2.452 00 GHz

Span 80 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 1 ms (601 pts)



6. EMISSION LIMITATIONS MEASUREMENT

6.1. Test Equipment

The following test equipment was used during the emission limitations test :

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Jul. 23, 09'	Jul. 22, 10'

6.2. Block Diagram of Test Setup

The same as section.4.2.

6.3. Specification Limits (§15.247(c))

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (See Section 15.205(c)).(This test result attaching to §3.6.3)

6.4. Operating Condition of EUT

The test program “Realtek WLAN Diagnostic Program V 0.00250.0724.2009” was used to enable the EUT to transmit data at different channel frequency individually.

6.5. Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 100kHz RBW and 100kHz VBW.

The measurement guideline was according to KDB 558074.

6.6. Test Results

PASSED. The testing data was attached in the next pages.

(Test Date : Nov. 25, 2009 Temperature : 26 Humidity : 55%)

802.11b

2412MHz: During 30MHz~25GHz bandwidth. In the 650MHz, the -54.70dBm is max value that is lower than 20dB of primary channel.

2437MHz: During 30MHz~25GHz bandwidth. In the 610MHz, the -57.65dBm is max value that is lower than 20dB of primary channel.

2462MHz: During 30MHz~25GHz bandwidth. In the 700MHz, the -55.93dBm is max value that is lower than 20dB of primary channel.

802.11g

2412MHz: During 30MHz~25GHz bandwidth. In the 650MHz, the -55.92dBm is max value that is lower than 20dB of primary channel.

2437MHz: During 30MHz~25GHz bandwidth. In the 700MHz, the -57.55dBm is max value that is lower than 20dB of primary channel.

2462MHz: During 30MHz~25GHz bandwidth. In the 650MHz, the -54.90dBm is max value that is lower than 20dB of primary channel.

802.11n-HT20

2412MHz: During 30MHz~25GHz bandwidth. In the 700MHz, the -54.81dBm is max value that is lower than 20dB of primary channel.

2437MHz: During 30MHz~25GHz bandwidth. In the 700MHz, the -57.68dBm is max value that is lower than 20dB of primary channel.

2462MHz: During 30MHz~25GHz bandwidth. In the 650MHz, the -55.45dBm is max value that is lower than 20dB of primary channel.

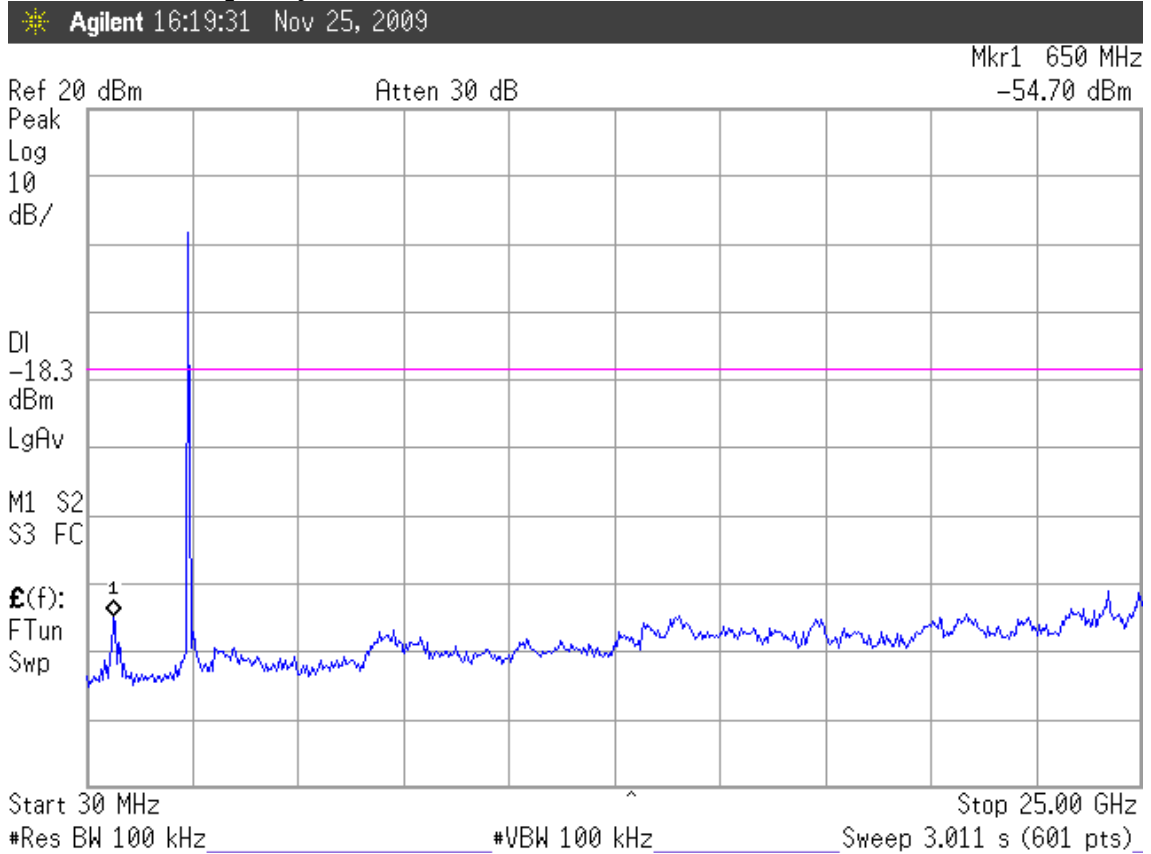
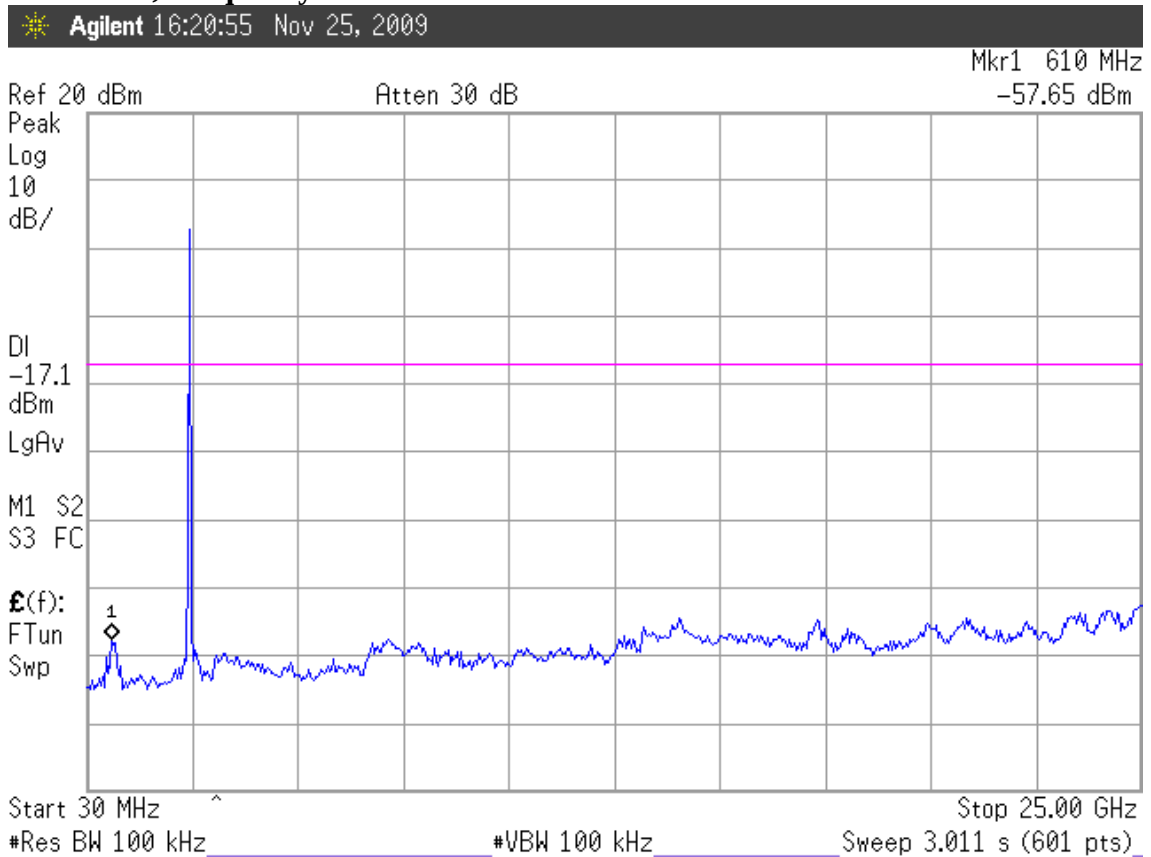
802.11n-HT40

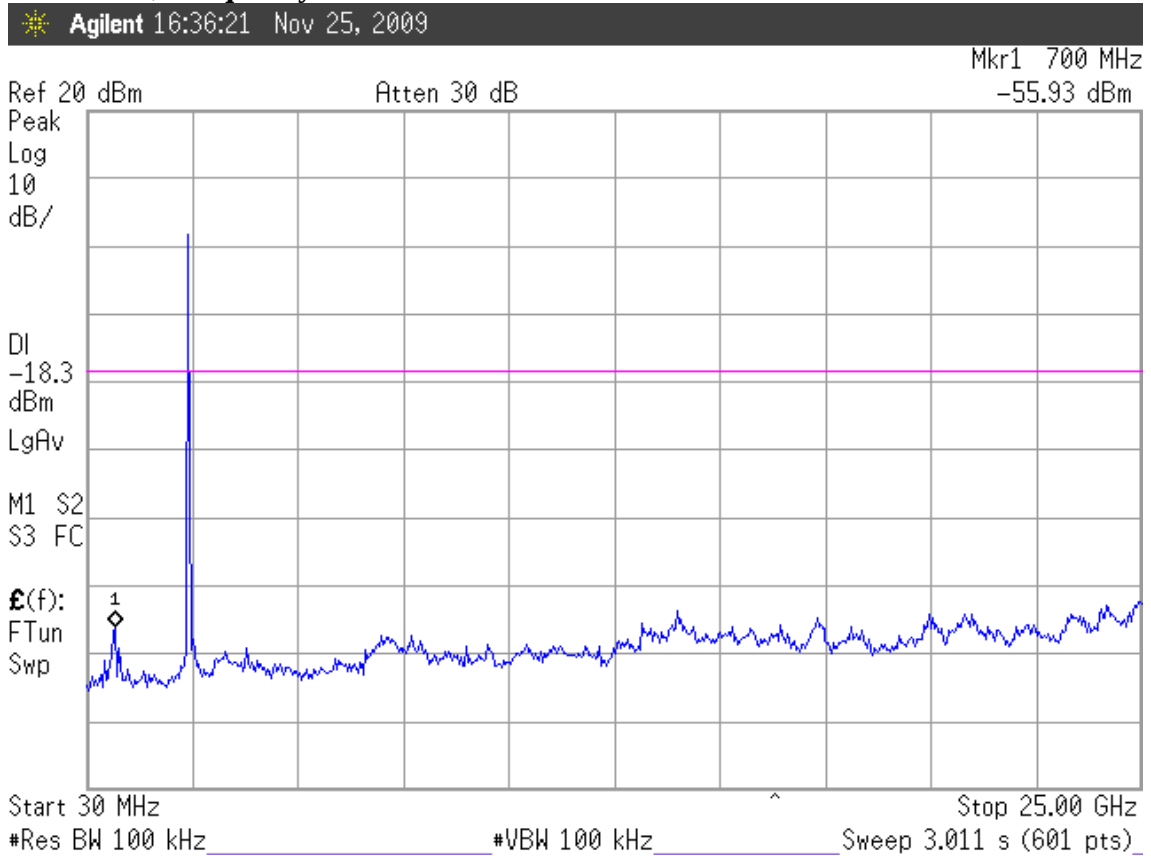
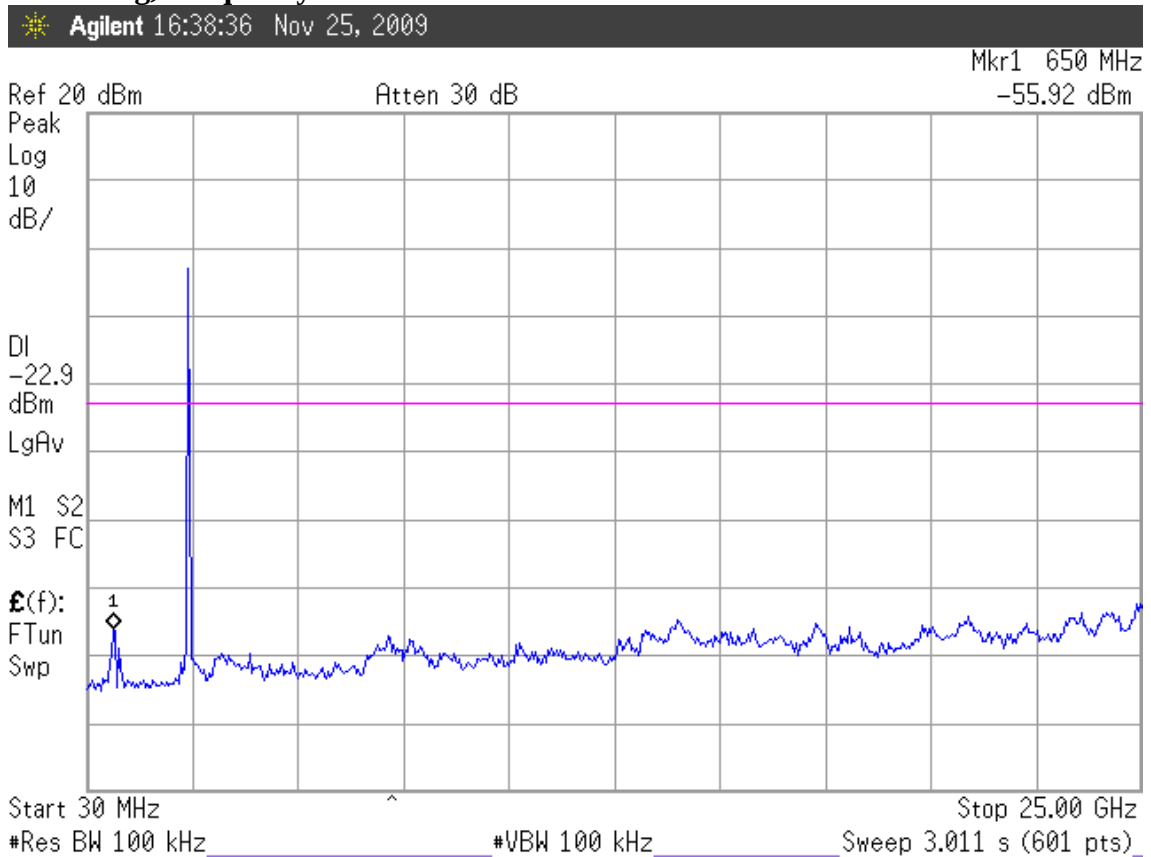
2422MHz: During 30MHz~25GHz bandwidth. In the 650MHz, the -53.51dBm is max value that is lower than 20dB of primary channel.

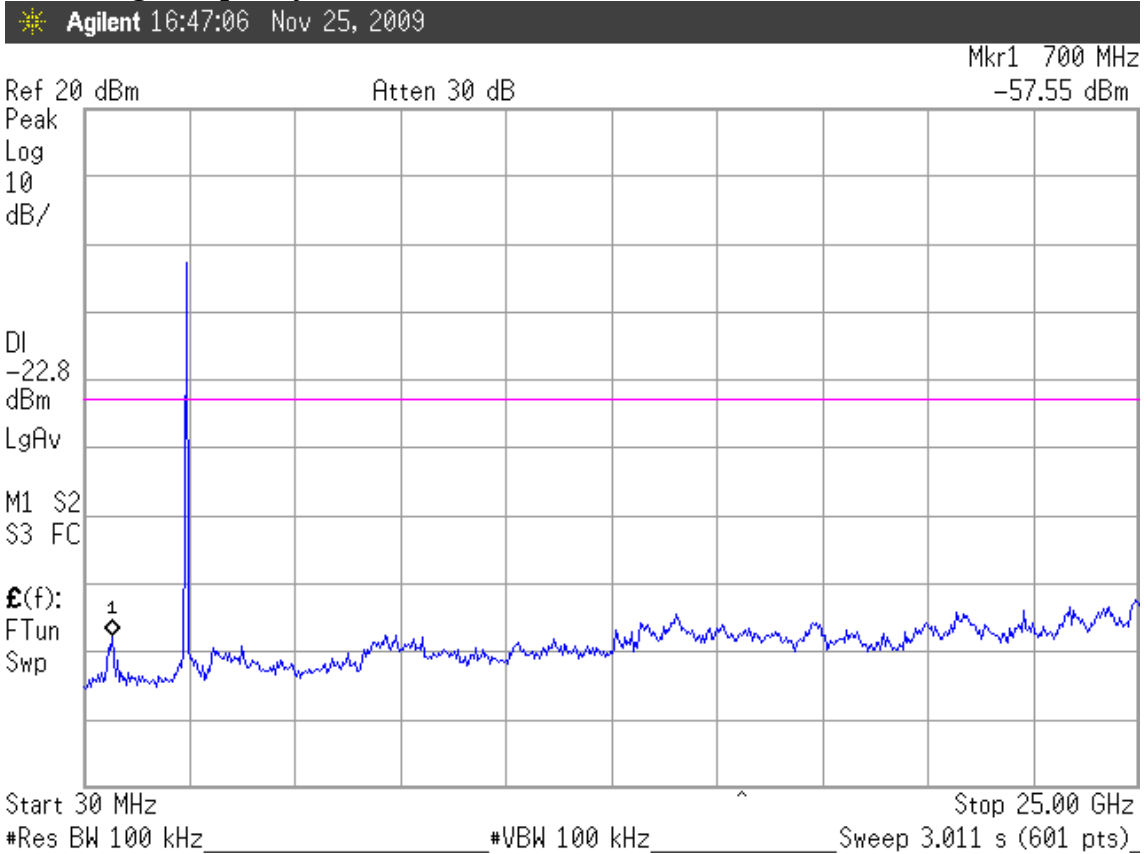
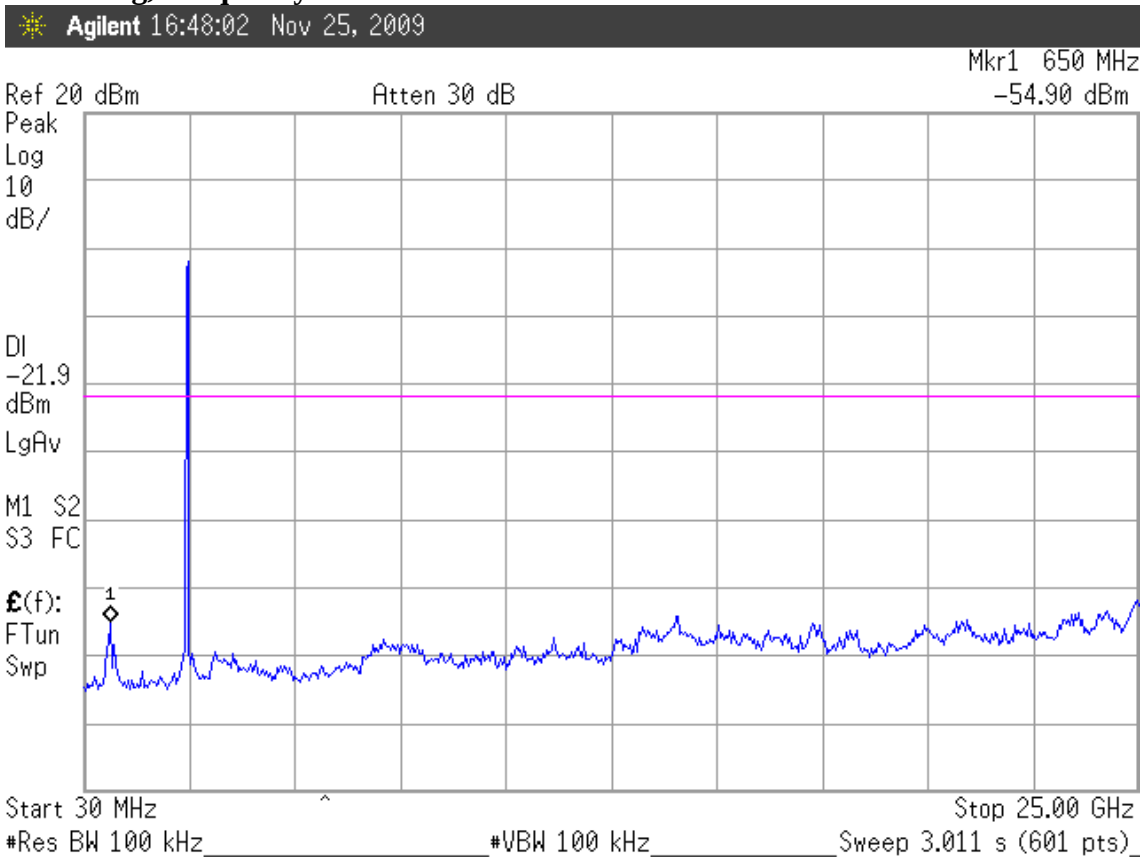
2437MHz: During 30MHz~25GHz bandwidth. In the 700MHz, the -56.89dBm is max value that is lower than 20dB of primary channel.

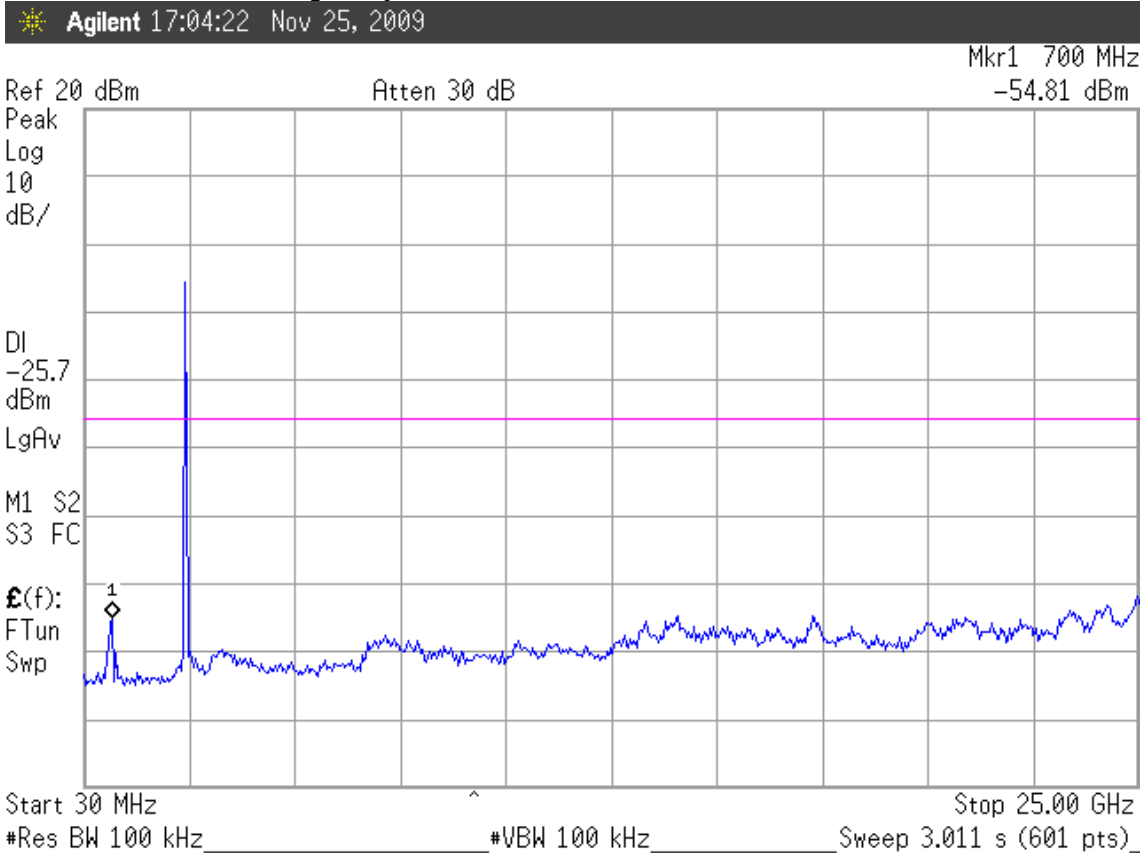
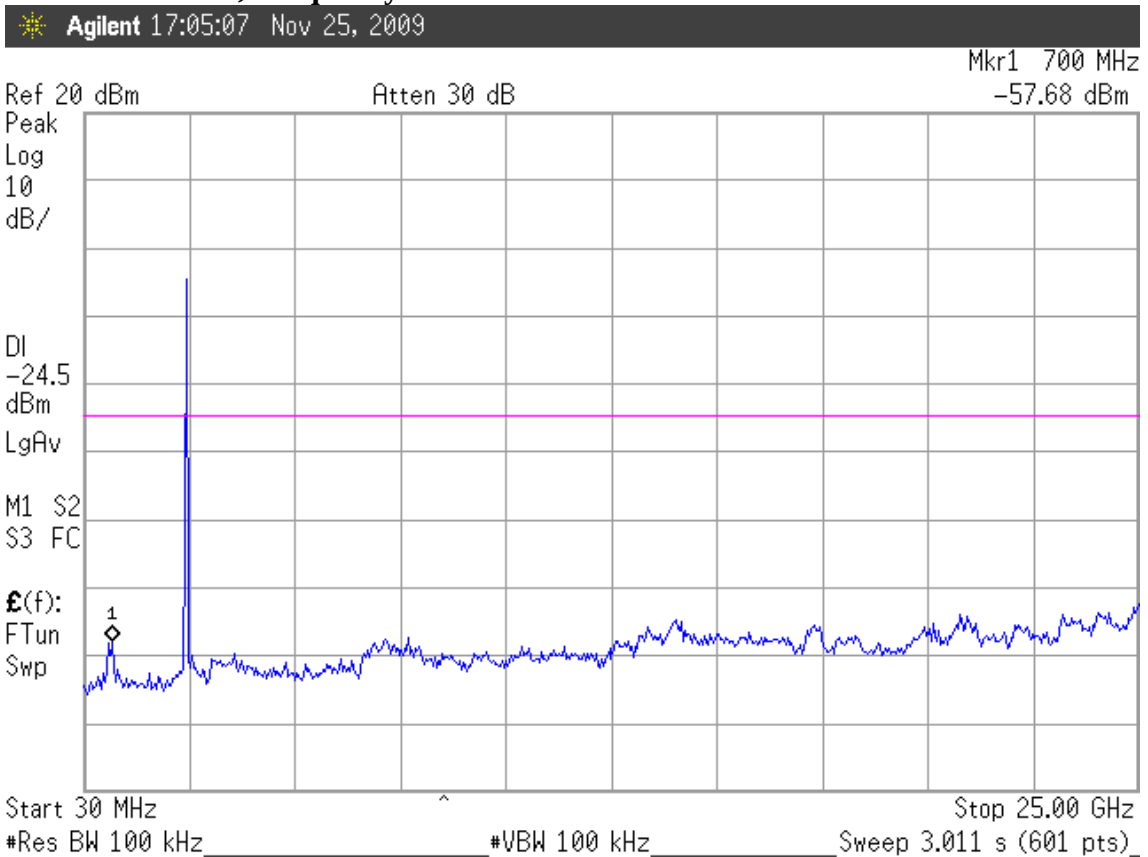
2452MHz: During 30MHz~25GHz bandwidth. In the 650MHz, the -52.94dBm is max value that is lower than 20dB of primary channel.

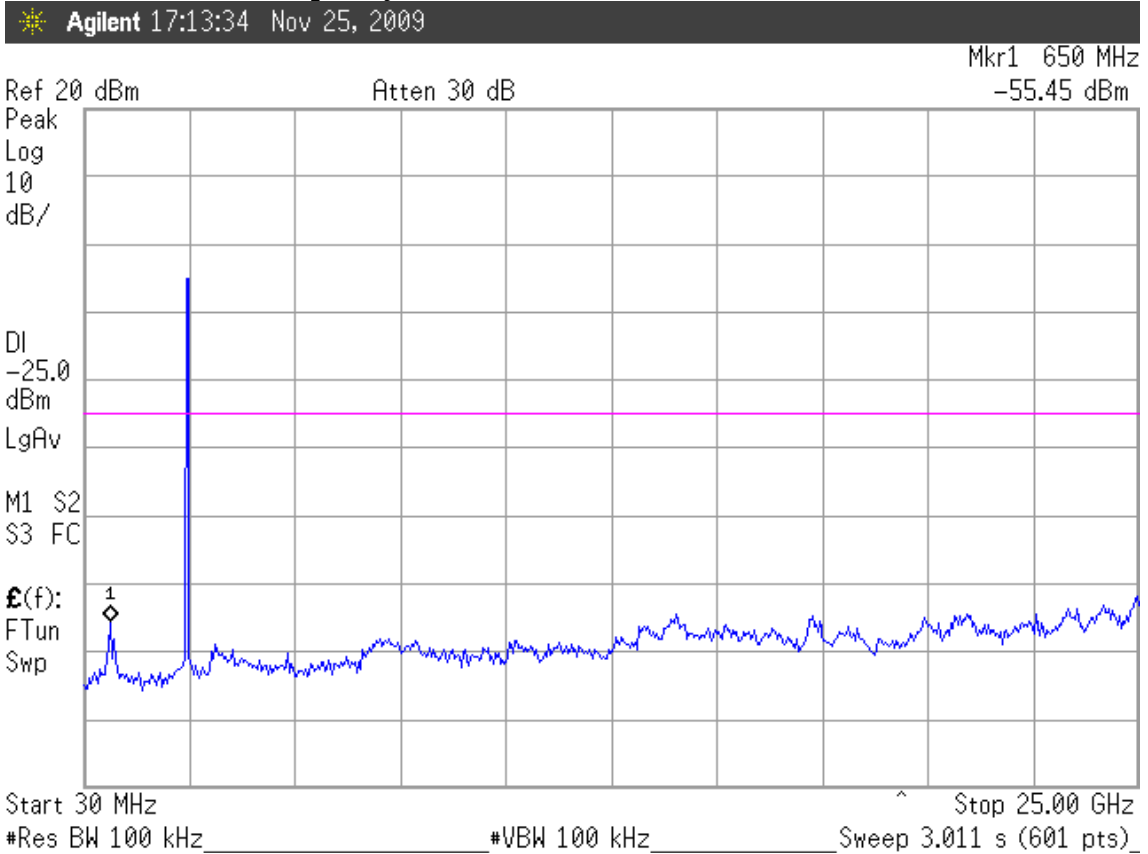
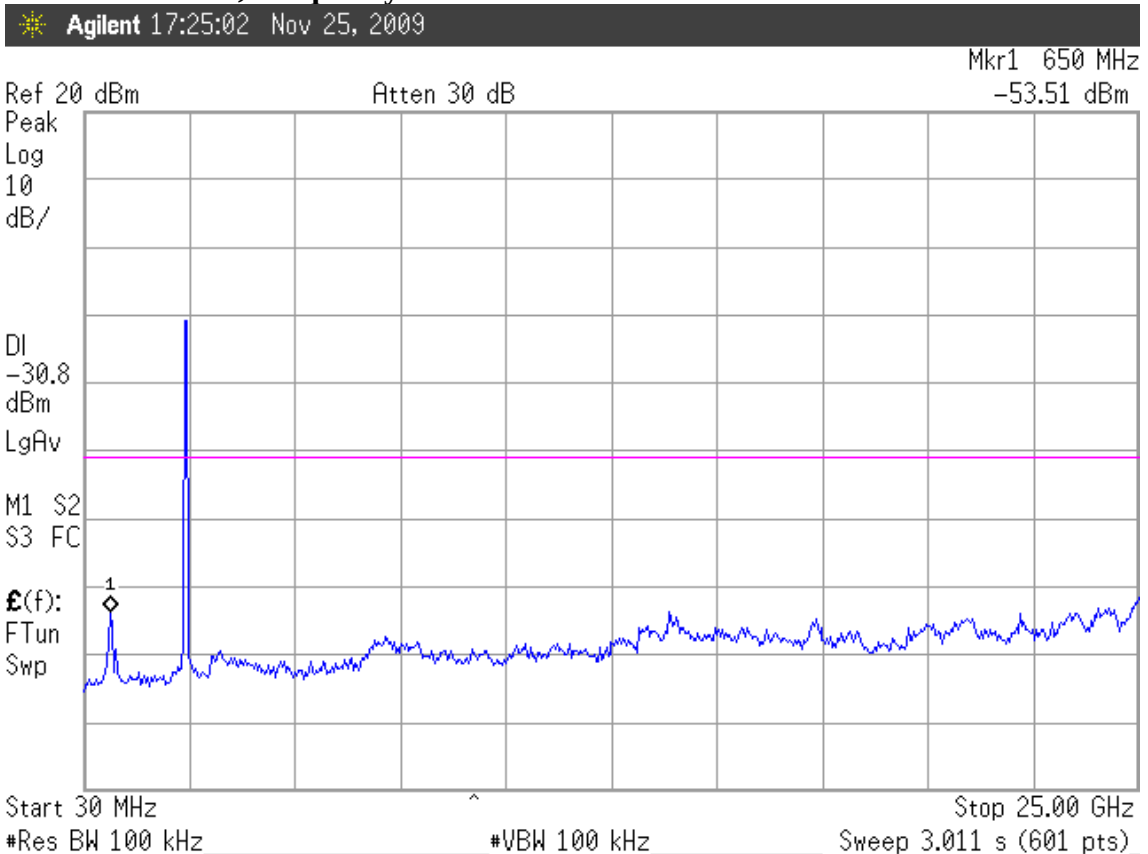
Note: The peak above the limit line is the carrier frequency.

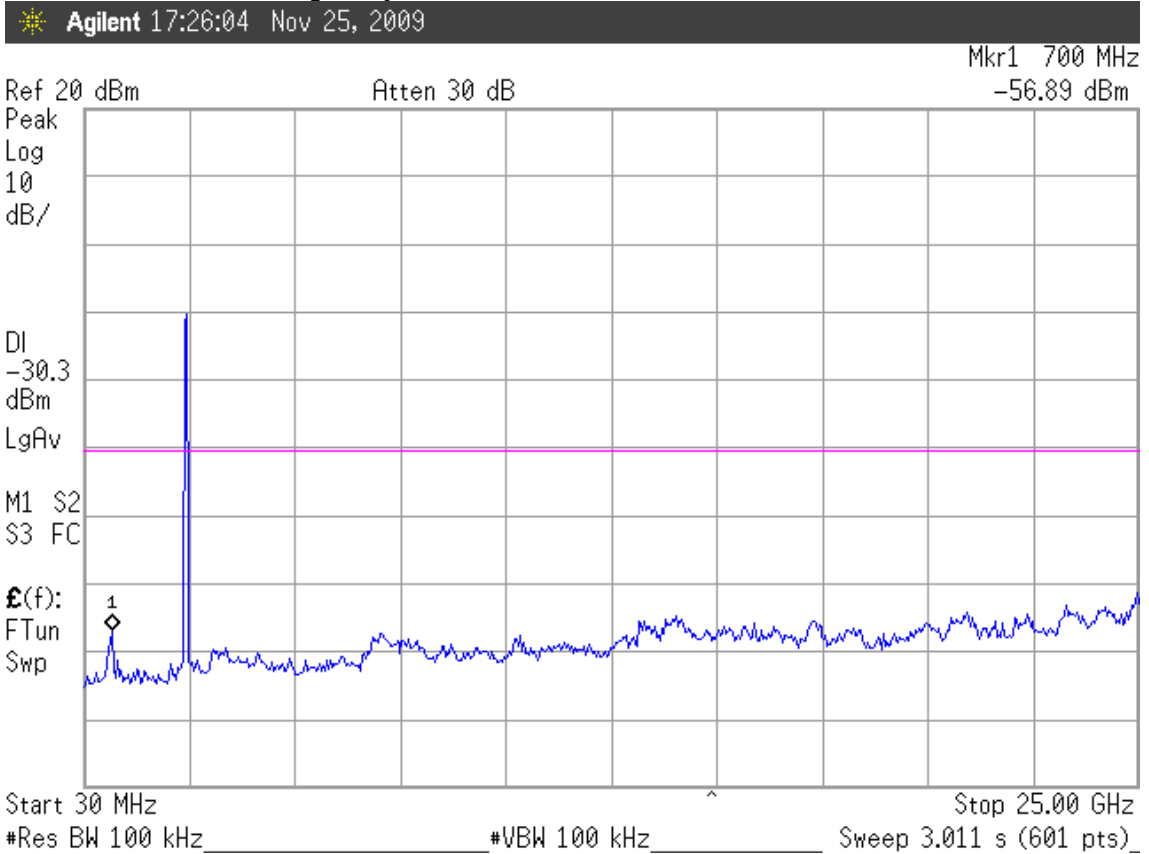
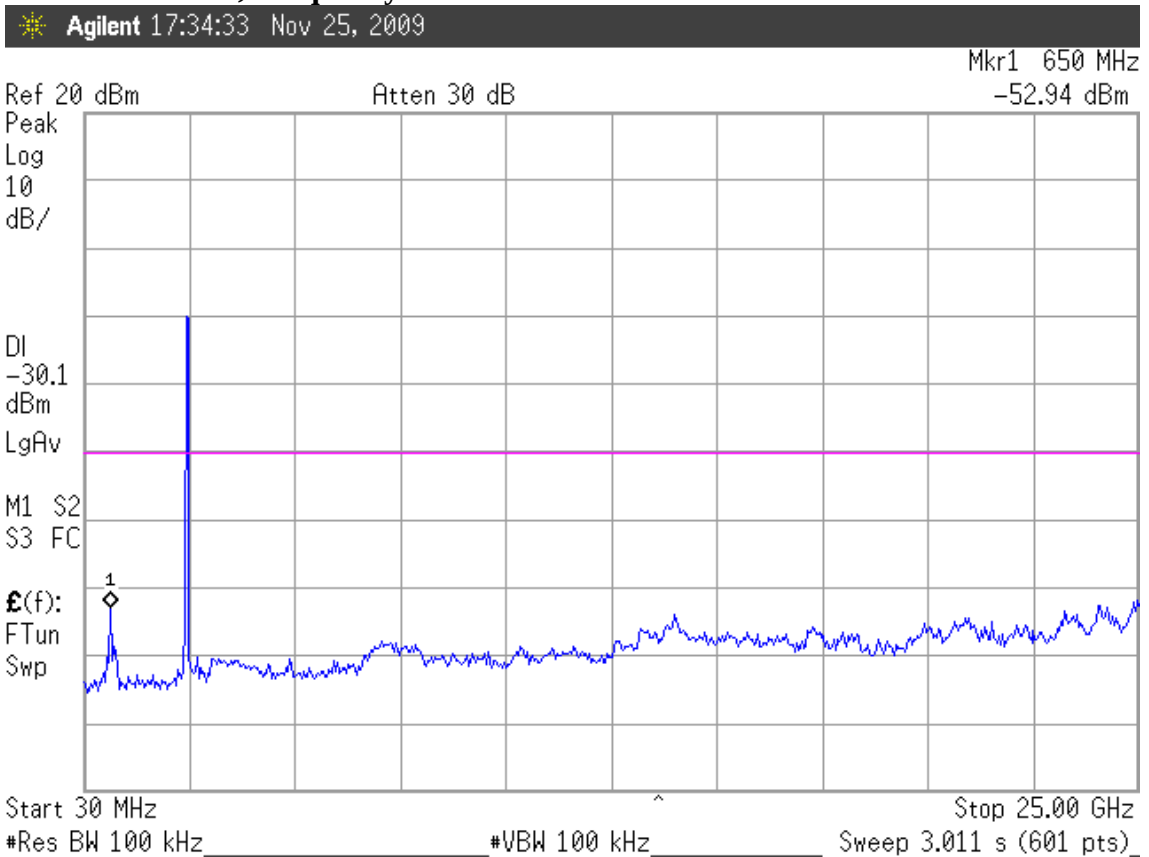
802.11b, Frequency: 2412MHz**802.11b, Frequency: 2437MHz**

802.11b, Frequency: 2462MHz**802.11g, Frequency: 2412MHz**

802.11g, Frequency: 2437MHz**802.11g, Frequency: 2462MHz**

802.11n-HT20, Frequency: 2412MHz**802.11n-HT20, Frequency: 2437MHz**

802.11n-HT20, Frequency: 2462MHz**802.11n-HT40, Frequency: 2422MHz**

802.11n-HT40, Frequency: 2437MHz**802.11n-HT40, Frequency: 2452MHz**

7. BAND EDGES MEASUREMENT

7.1. Test Equipment

The following test equipment was used during the band edges measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Jul. 23, 09'	Jul. 22, 10'

7.2. Block Diagram of Test Setup

The same as section.4.2.

7.3. Specification Limits (§15.247(c))

The highest level should be at least 20 dB below that in the 100kHz bandwidth.

7.4. Operating Condition of EUT

The test program “Realtek WLAN Diagnostic Program V 0.00250.0724.2009” was used to enable the EUT to transmit data at different channel frequency individually.

7.5. Test Procedure

The transmitter output was connected to the spectrum analyzer. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100kHz bandwidth from band edge.

The measurement guideline was according to KDB 558074.

7.6. Test Results

PASSED. All the test results are attached in next pages.

(Test Date : Nov. 25, 2009 Temperature : 26 Humidity : 55%)

802.11b

Below Band edge: The highest emission level is –37.68dBm on 2.39992GHz.

Upper Band edge : The highest emission level is –55.16dBm on 2.48350GHz.

802.11g

Below Band edge: The highest emission level is –34.04dBm on 2.39992GHz.

Upper Band edge : The highest emission level is –47.86dBm on 2.48350GHz.

802.11n-HT20

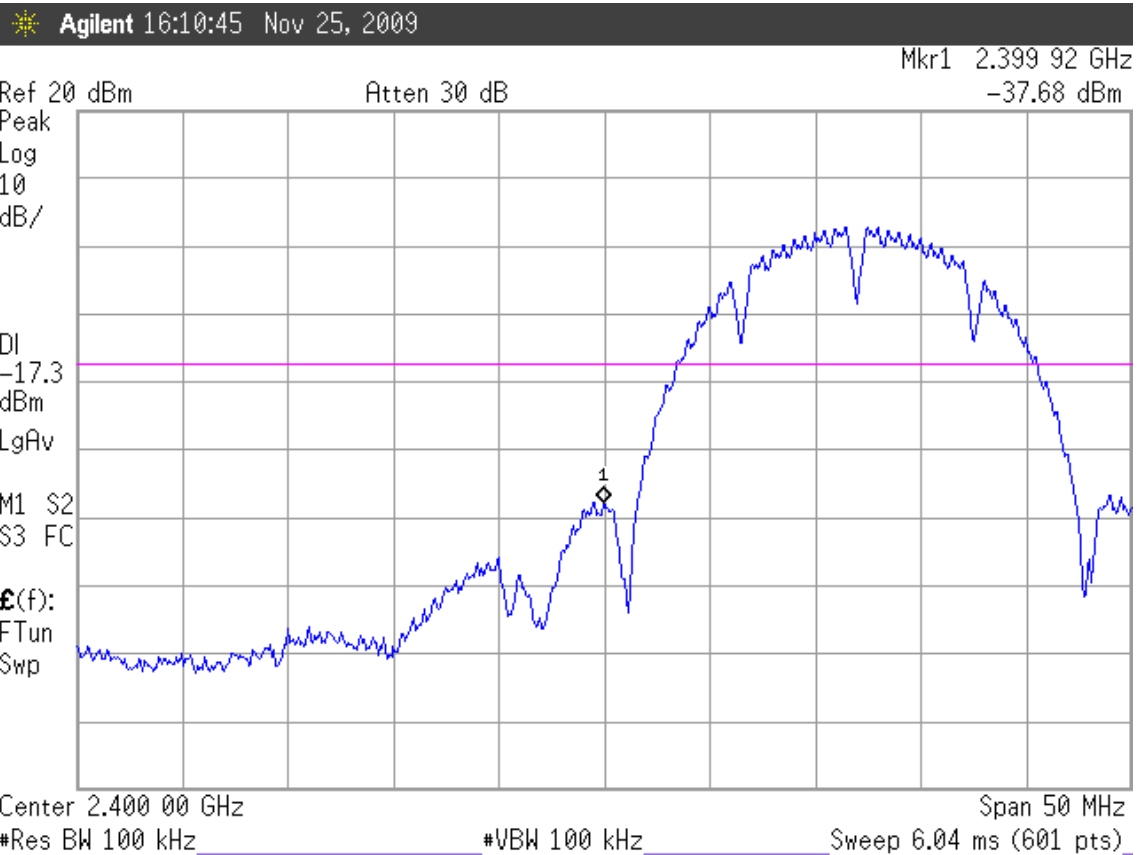
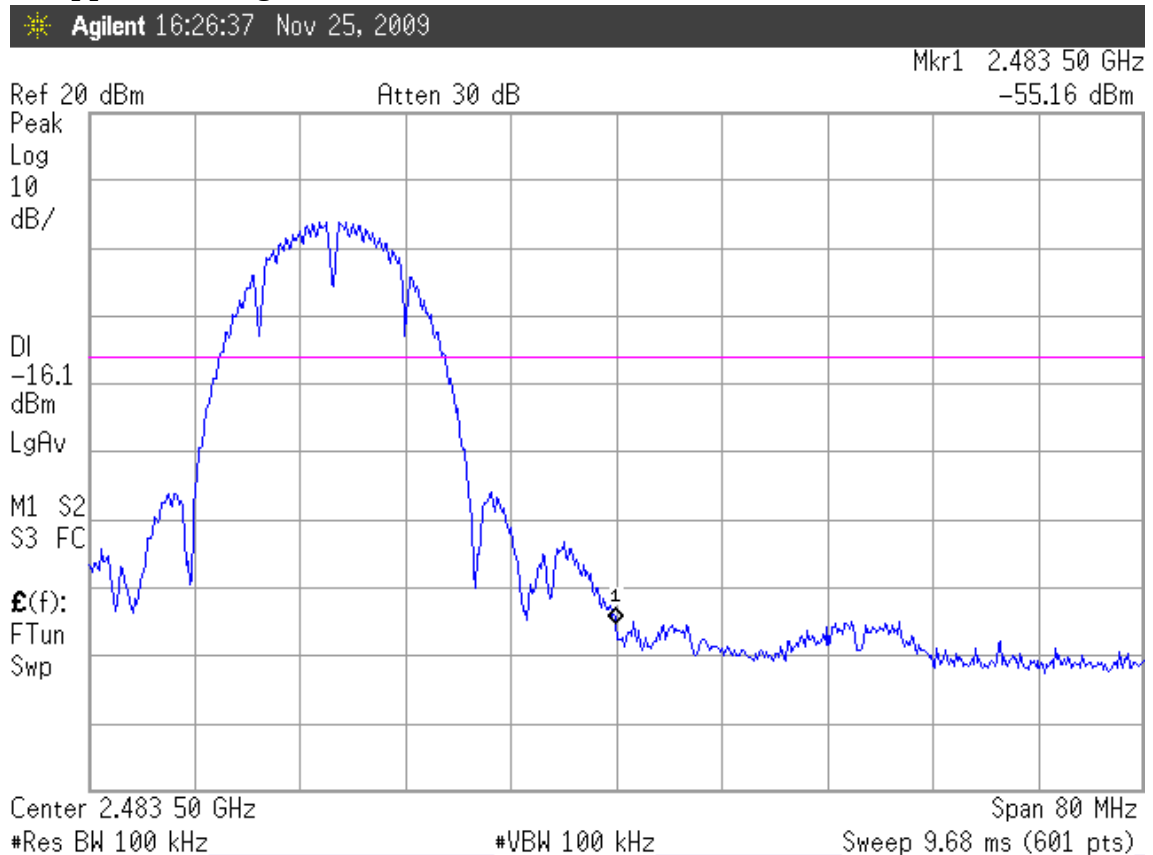
Below Band edge: The highest emission level is -35.27dBm on 2.39992GHz.

Upper Band edge : The highest emission level is -53.15dBm on 2.48350GHz.

802.11n-HT40

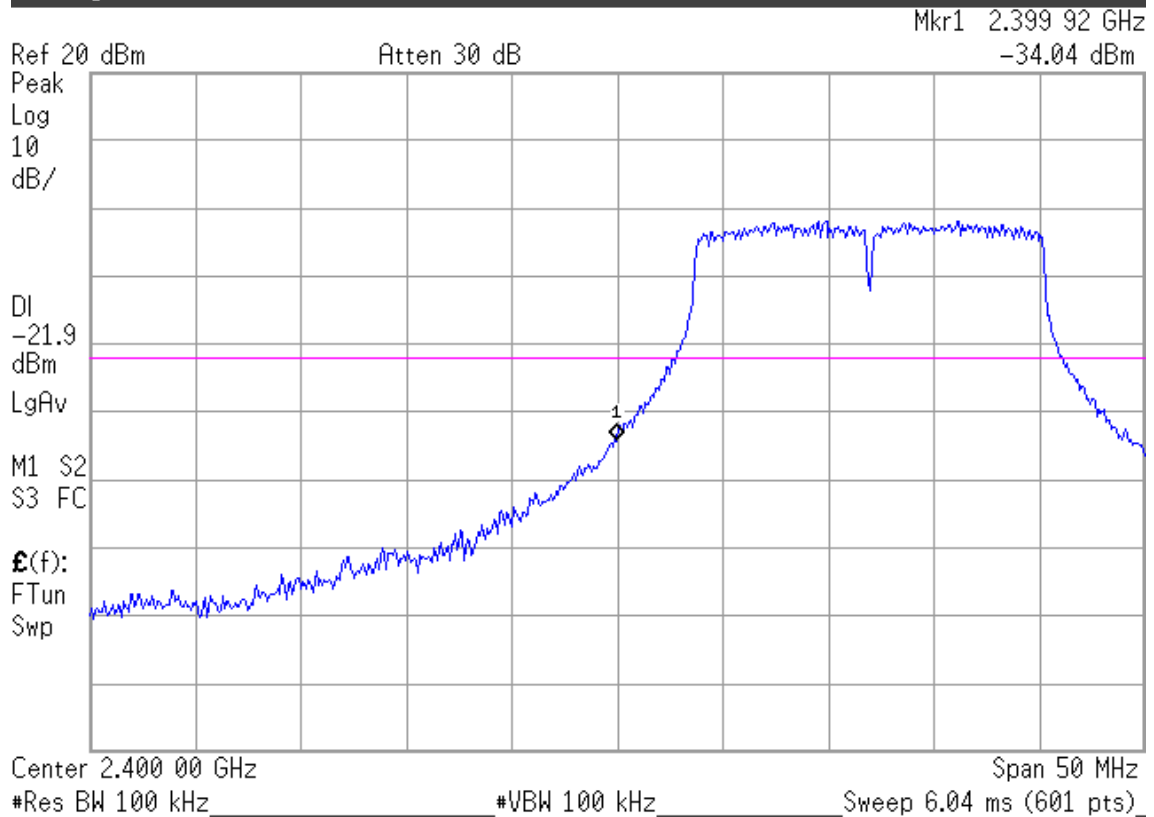
Below Band edge: The highest emission level is -40.58dBm on 2.40000GHz.

Upper Band edge : The highest emission level is -50.78dBm on 2.48350GHz.

802.11b**Below Band edge****Upper Band edge**

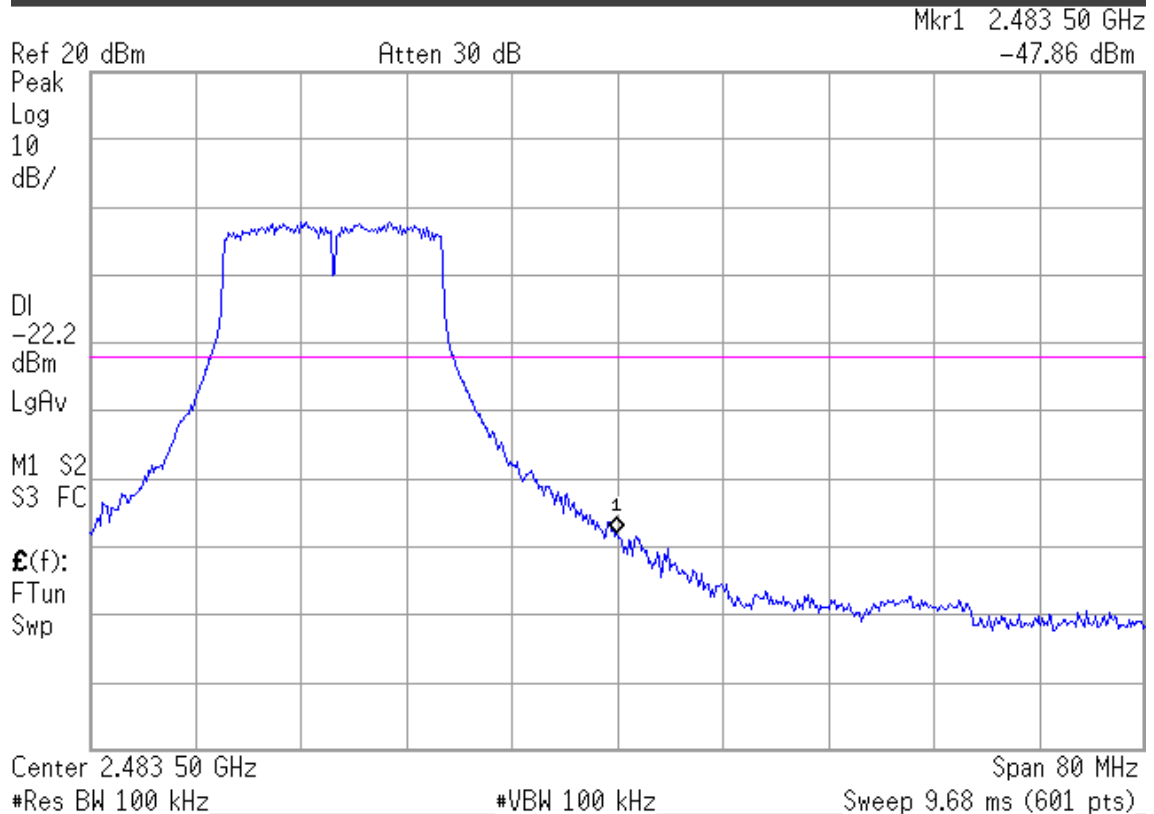
802.11g Below Band edge

Agilent 16:40:27 Nov 25, 2009



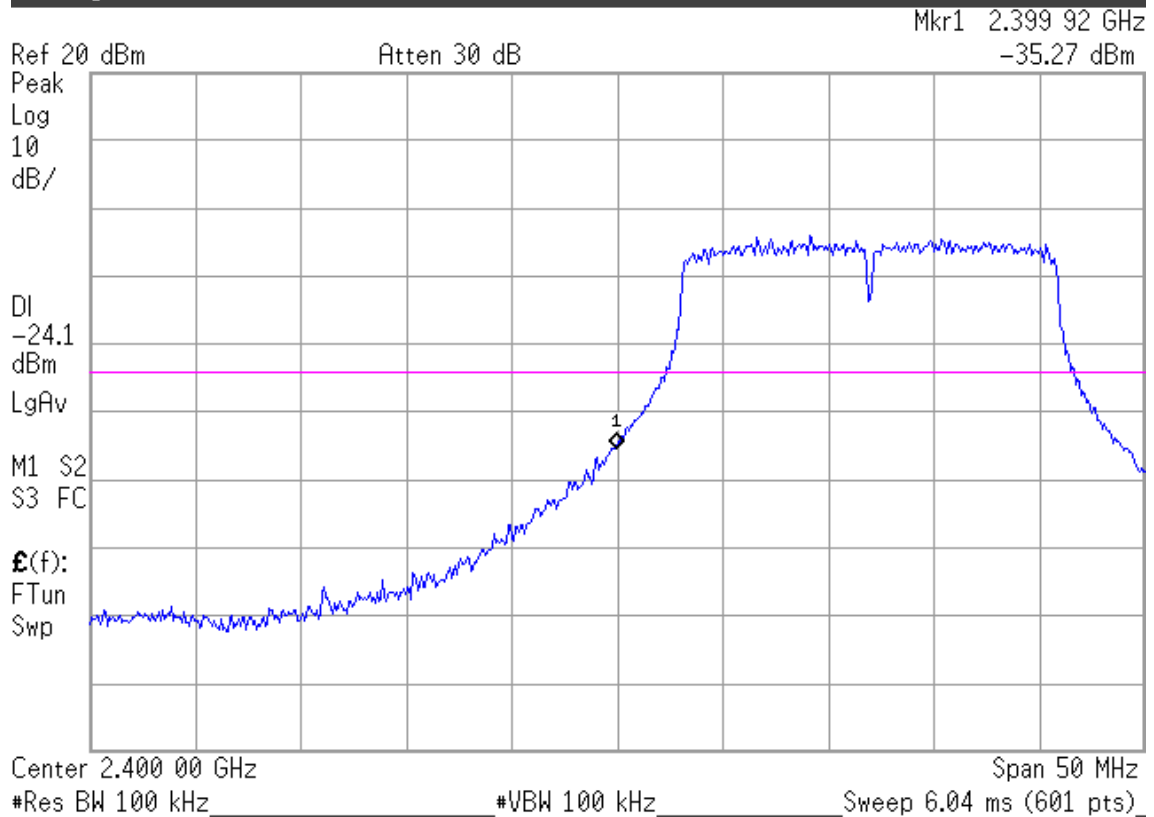
Upper Band edge

Agilent 16:51:23 Nov 25, 2009



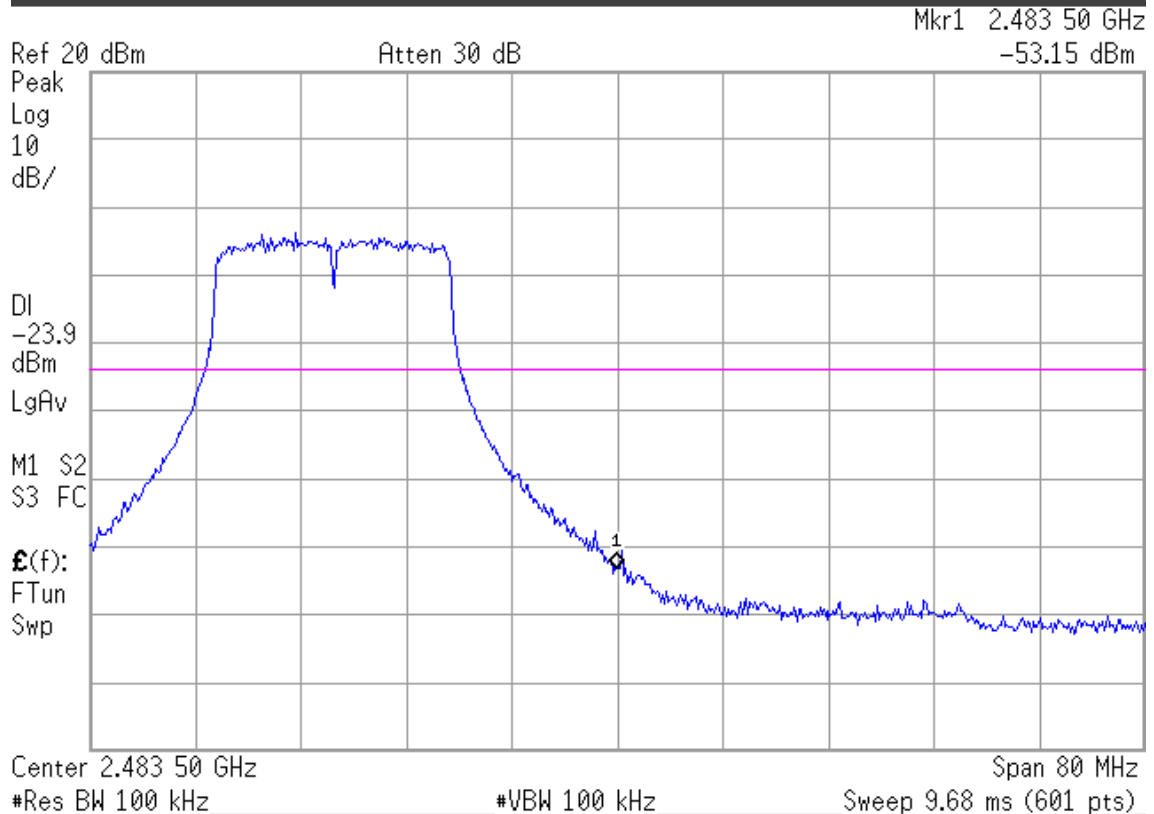
802.11n-HT20 Below Band edge

Agilent 17:01:13 Nov 25, 2009



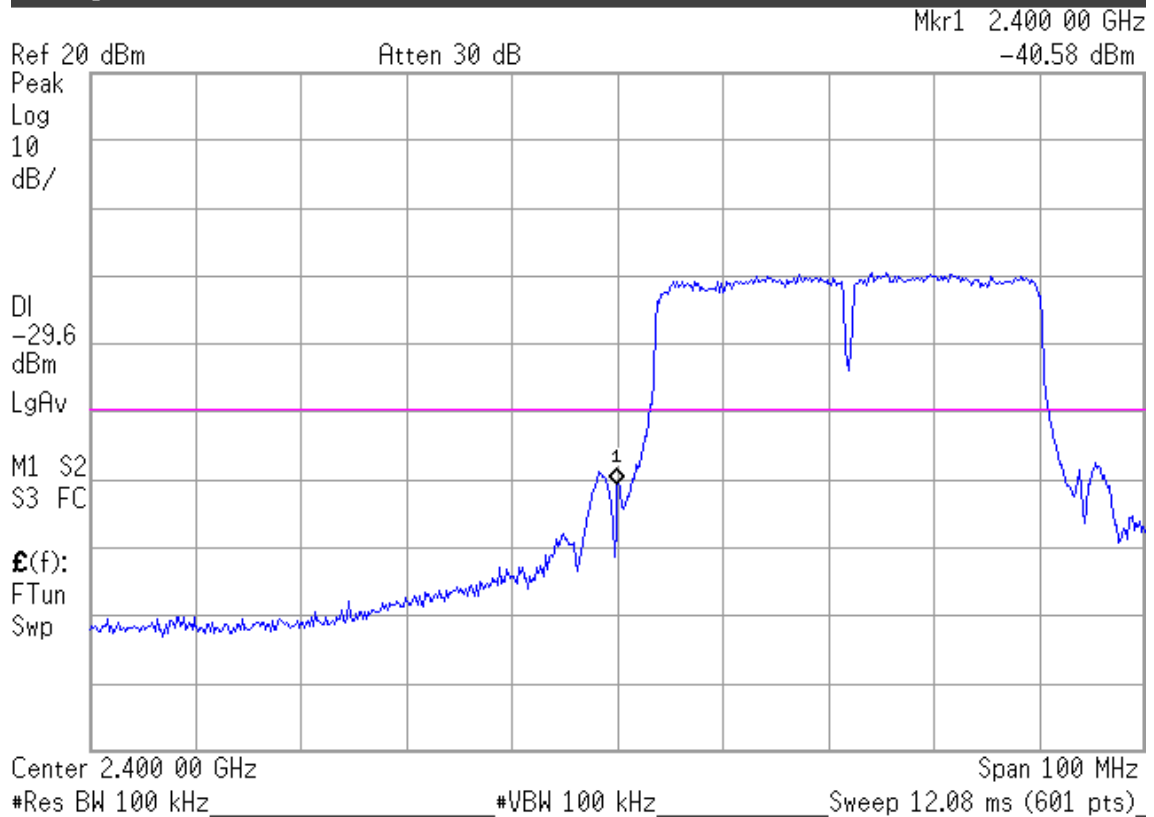
Upper Band edge

Agilent 17:10:12 Nov 25, 2009



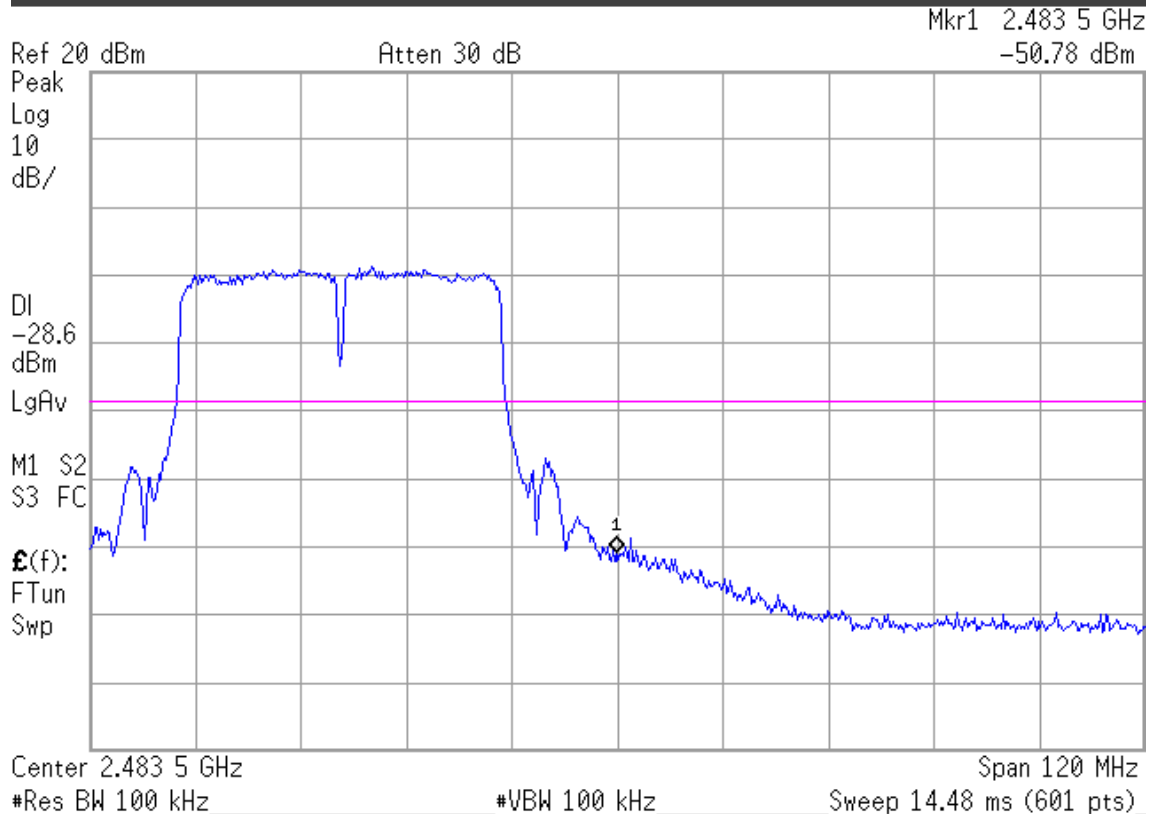
802.11n-HT40 Below Band edge

Agilent 17:20:29 Nov 25, 2009



Upper Band edge

Agilent 17:31:26 Nov 25, 2009



8. POWER SPECTRAL DENSITY MEASUREMENT

8.1. Test Equipment

The following test equipment was used during the power spectral density measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Jul. 23, 09'	Jul. 22, 10'

8.2. Block Diagram of Test Setup

The same as section.4.2.

8.3. Specification Limits (§15.247(d))

The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band.

8.4. Operating Condition of EUT

The test program “Realtek WLAN Diagnostic Program V 0.00250.0724.2009” was used to enable the EUT to transmit data at different channel frequency individually.

8.5. Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz.

The measurement guideline was according to KDB 558074.

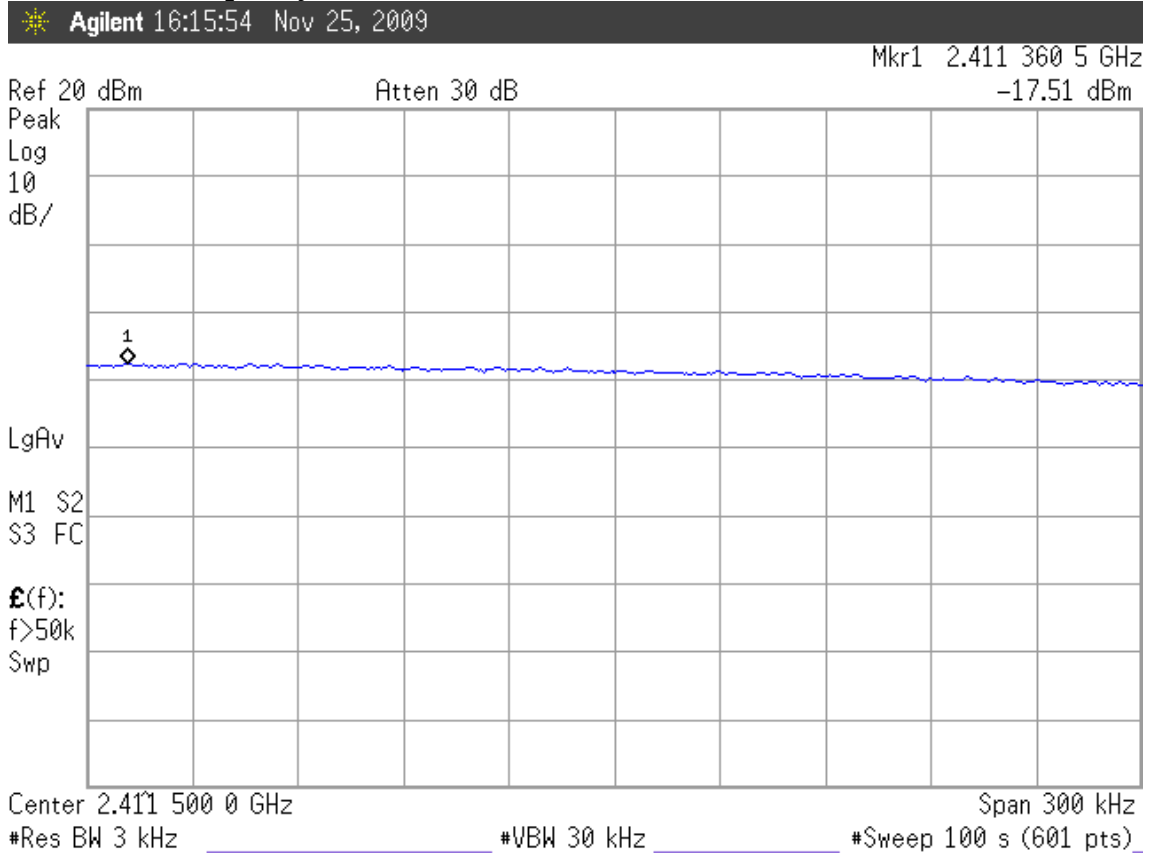
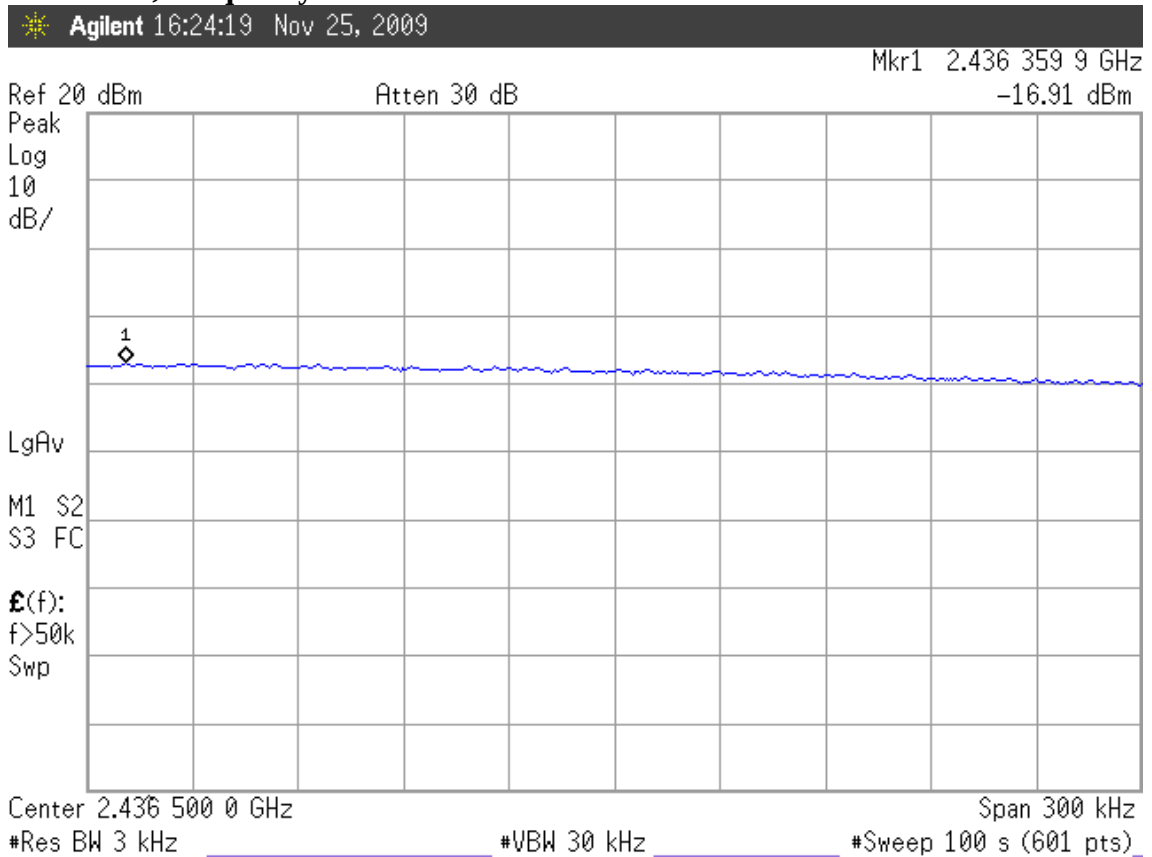
8.6. Test Results

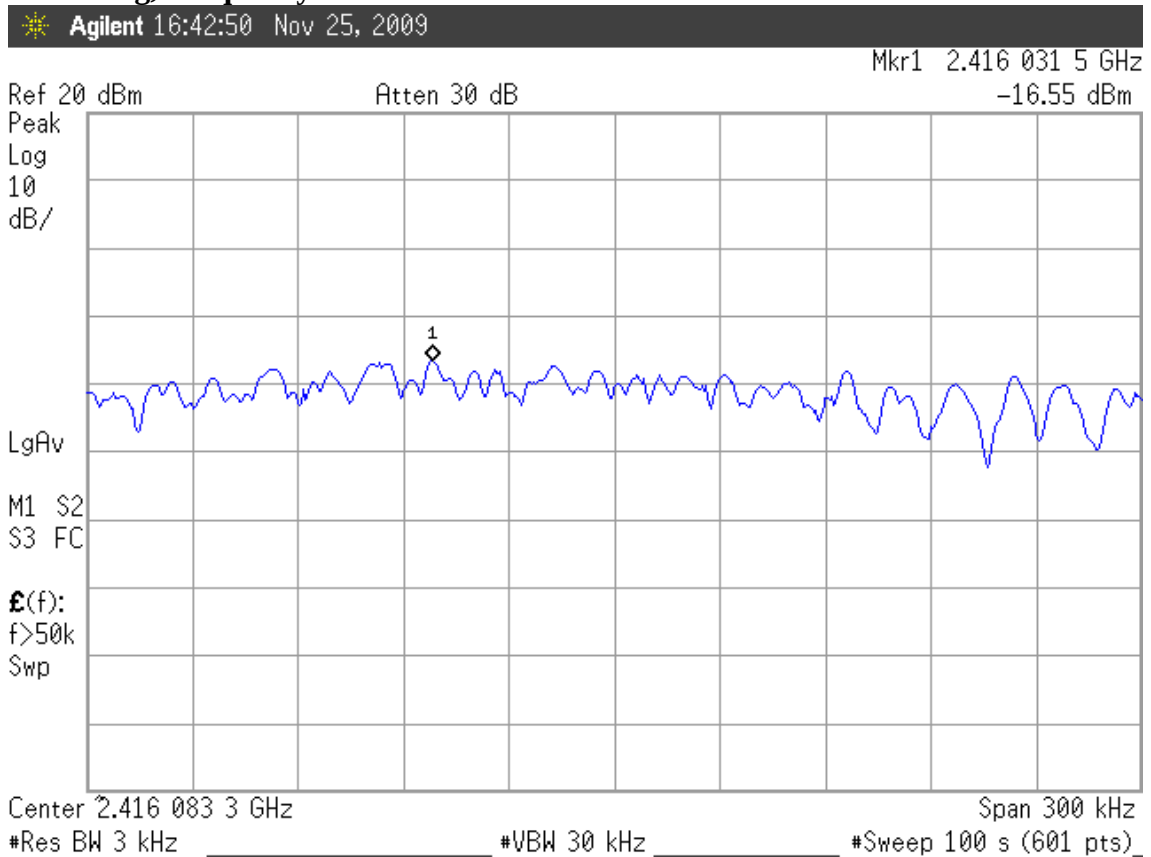
PASSED. All the test results are attached in next pages.

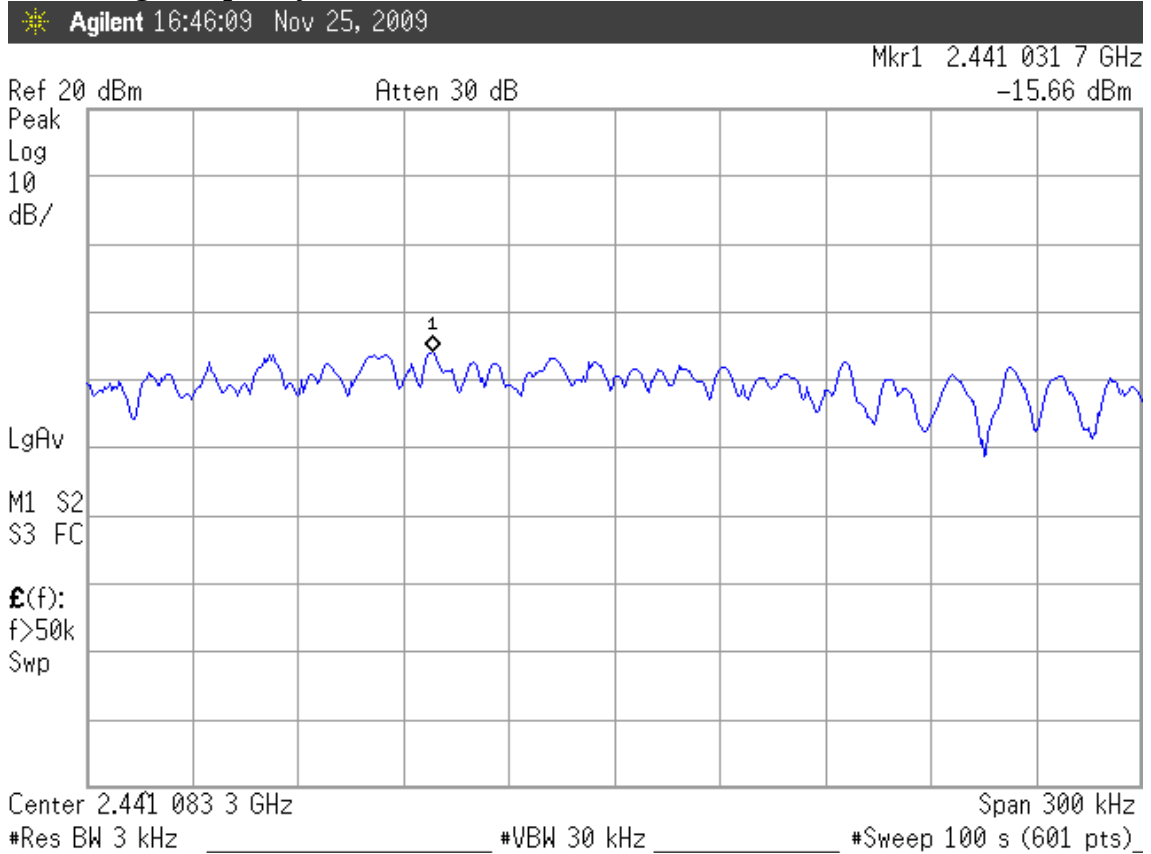
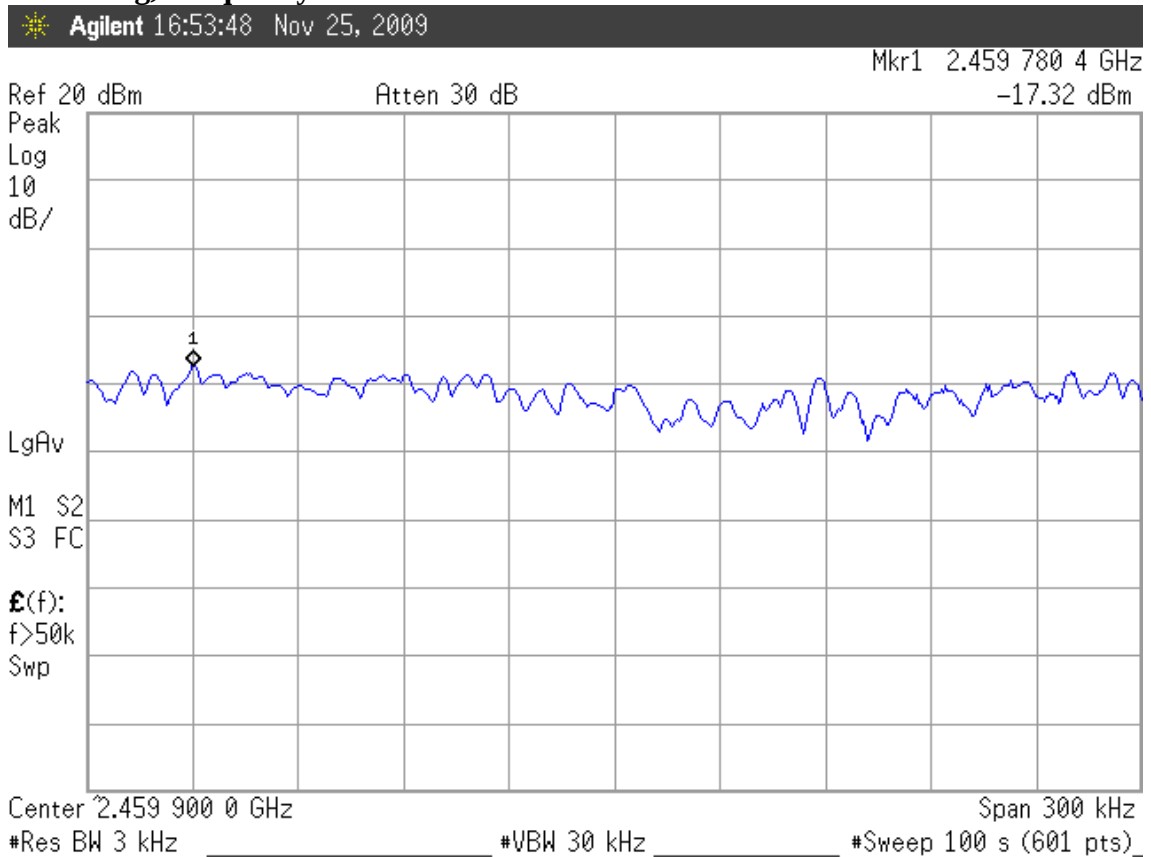
(Test Date : Nov. 25, 2009 Temperature : 26 Humidity : 55%)

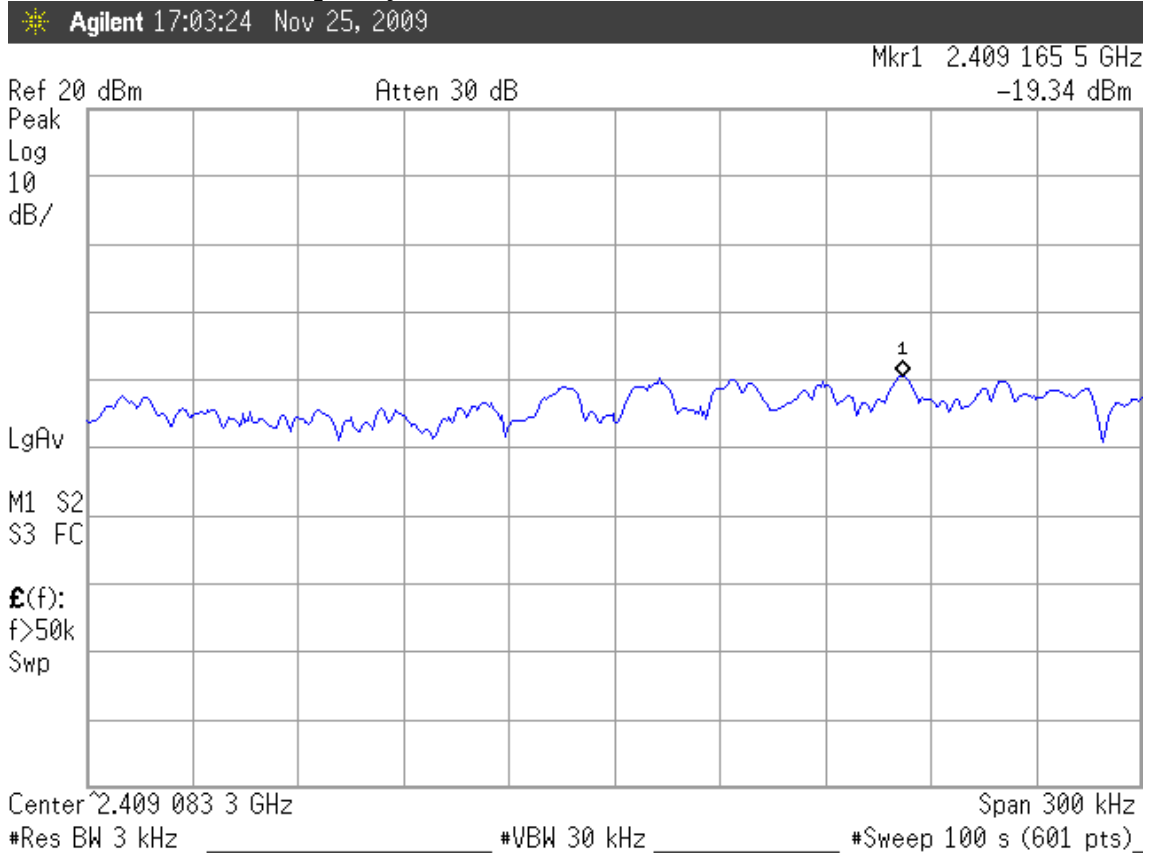
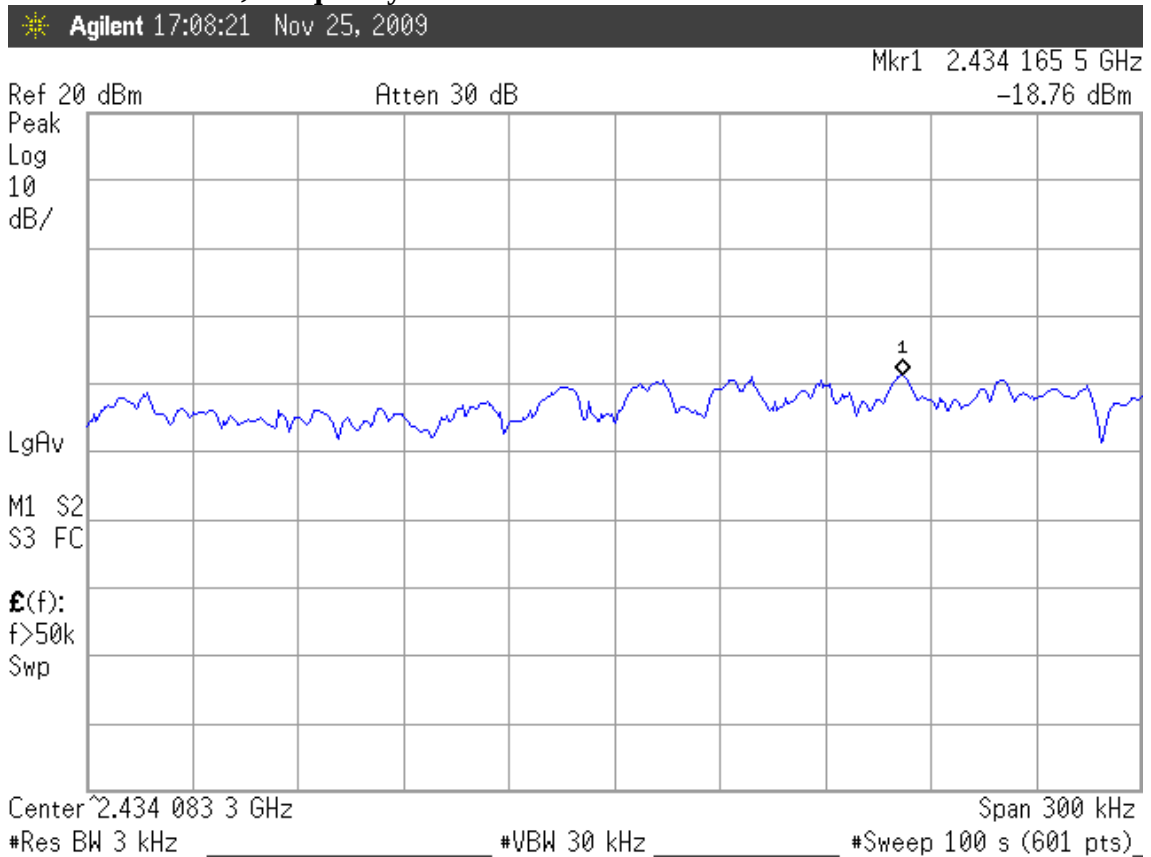
Mode	Type of Network	Channel	Frequency	Power Spectral Density (dBm)
1.	802.11b	CH 1	2412MHz	-17.51dBm
2.		CH 6	2437MHz	-16.91dBm
3.		CH 11	2462MHz	-16.41dBm
4.	802.11g	CH 1	2412MHz	-16.55dBm
5.		CH 6	2437MHz	-15.66dBm
6.		CH 11	2462MHz	-17.32dBm
7.	802.11n-HT20	CH 1	2412MHz	-19.34dBm
8.		CH 6	2437MHz	-18.76dBm
9.		CH 11	2462MHz	-19.28dBm
10.	802.11n-HT40	CH 3	2422MHz	-21.26dBm
11.		CH 6	2437MHz	-20.99dBm
12.		CH 9	2452MHz	-20.59dBm

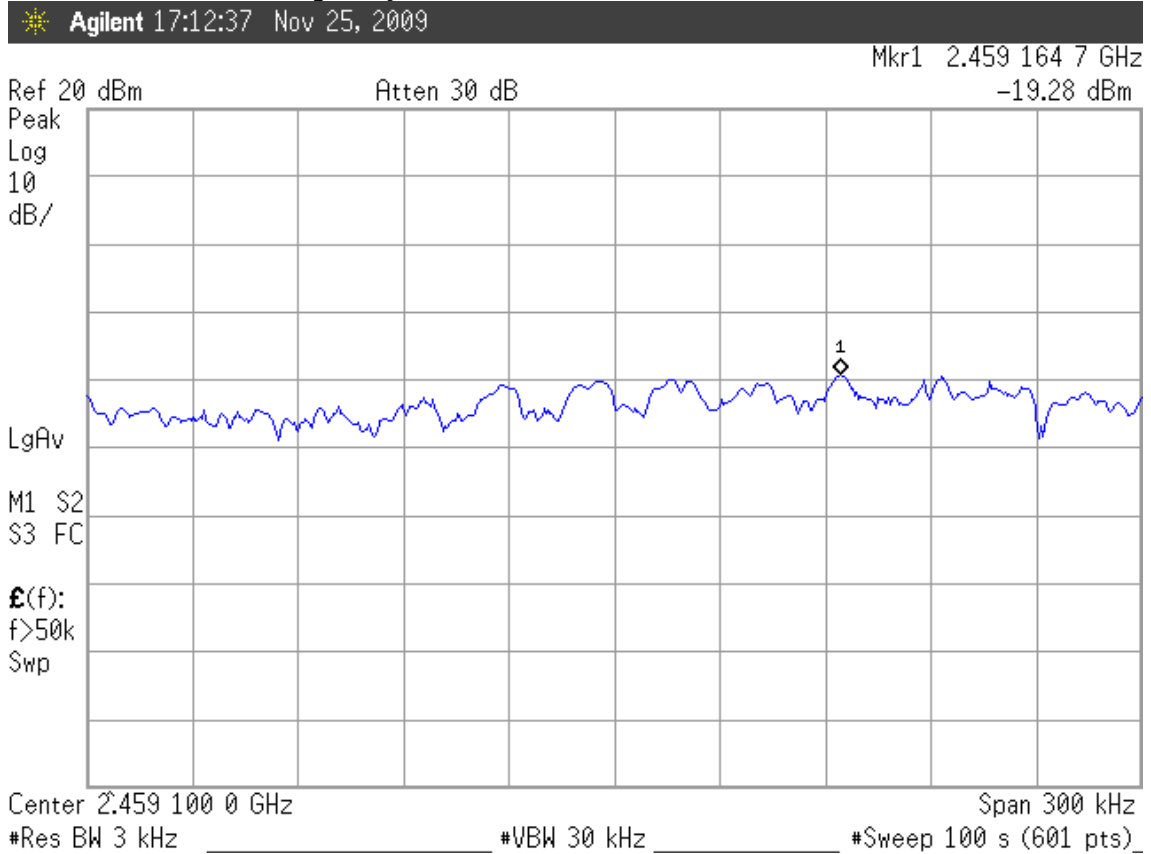
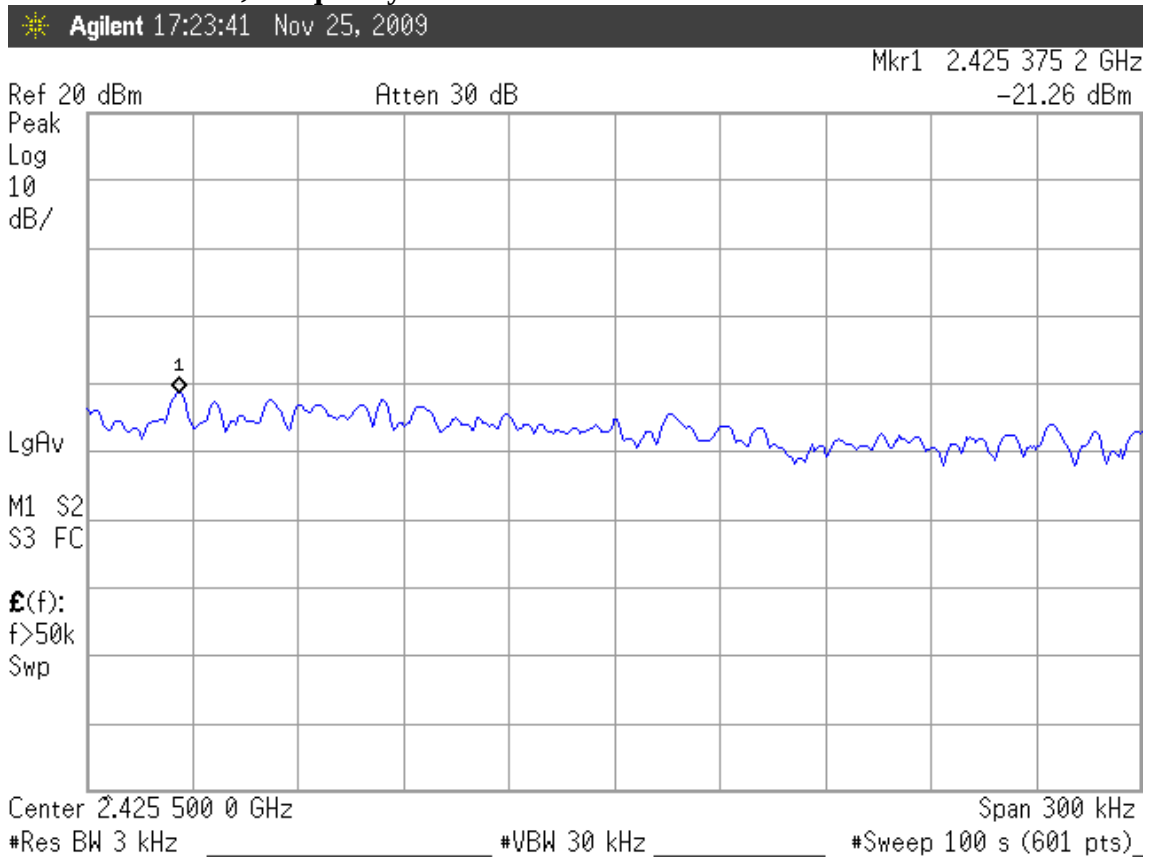
[Limit: 8dBm]

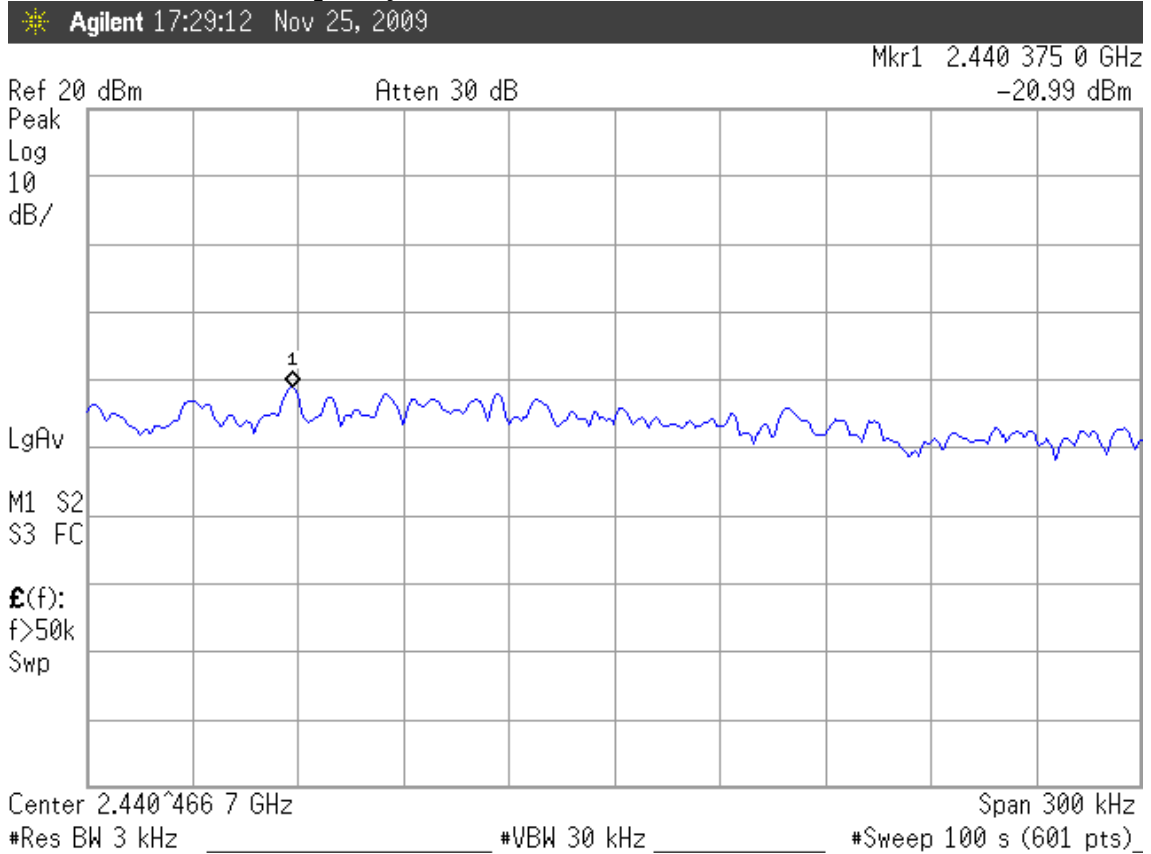
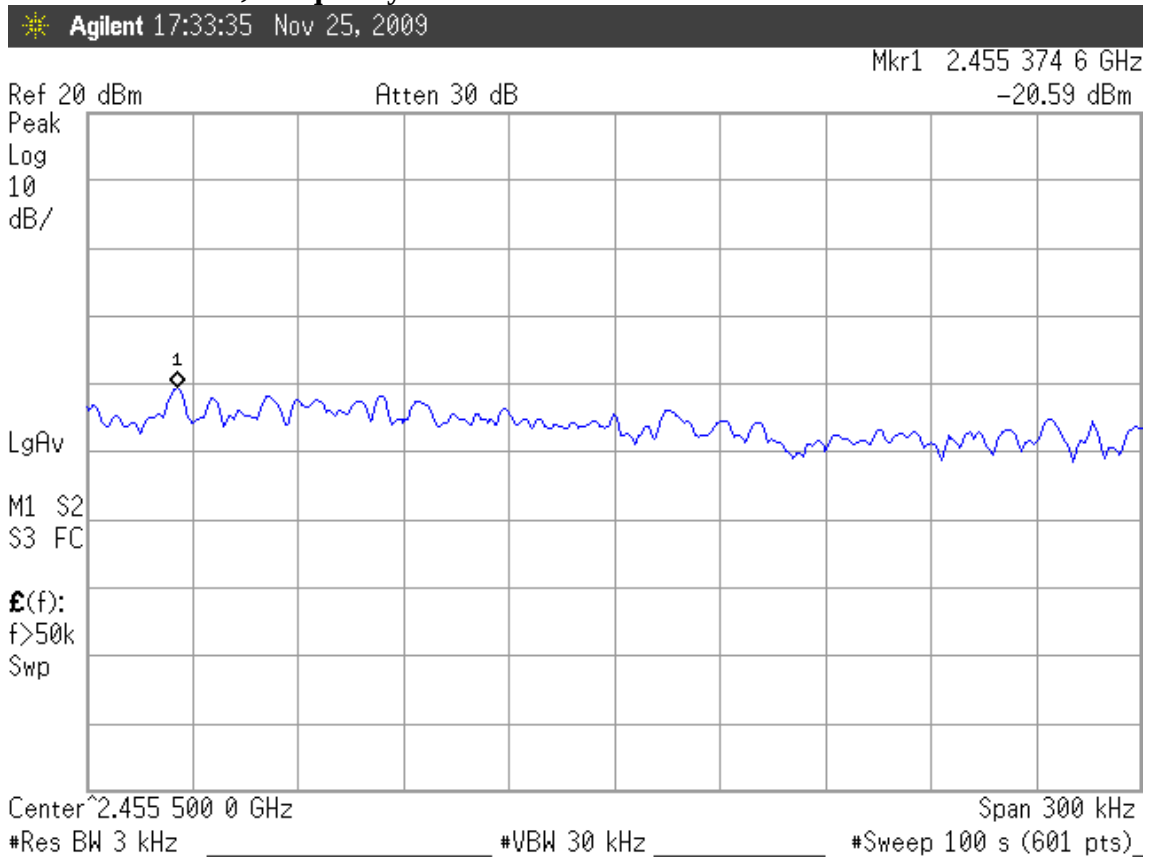
802.11b, Frequency: 2412MHz**802.11b, Frequency: 2437MHz**

802.11b, Frequency: 2462MHz**802.11g, Frequency: 2412MHz**

802.11g, Frequency: 2437MHz**802.11g, Frequency: 2462MHz**

802.11n-HT20, Frequency: 2412MHz**802.11n-HT20, Frequency: 2437MHz**

802.11n-HT20, Frequency: 2462MHz**802.11n-HT40, Frequency: 2422MHz**

802.11n-HT40, Frequency: 2437MHz**802.11n-HT40, Frequency: 2452MHz**

9. DEVIATION TO TEST SPECIFICATIONS

【NONE】