

APPLICATION FOR CERTIFICATION

On Behalf of
INVENTEC BESTA CO., LTD.
Electronic Dictionary
Model No.: CD-920
FCC ID: U6OCA012
Brand: BESTA

Prepared for : INVENTEC BESTA CO., LTD.
10FL., No.36, Lane 513, Rui Guang Road,
Nei Hu Dist., Taipei 114, Taiwan

Prepared by : AUDIX Technology Corporation
EMC Department
No. 53-11, Dingfu, Linkou
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Date of Report : Jul. 05, 2013

TABLE OF CONTENTS

Description	Page
TEST REPORT CERTIFICATION	4
1. GENERAL INFORMATION	5
1.1. Description of Device (EUT).....	5
1.2. Antenna Information.....	6
1.3. Data Rate Relative to Peak Output Power	6
1.4. Test Configuration for Each Test Item	7
1.5. Tested Supporting System Details	7
1.6. Description of Test Facility	8
1.7. Measurement Uncertainty.....	8
2. CONDUCTED EMISSION MEASUREMENT.....	9
2.1. Test Equipment.....	9
2.2. Block Diagram of Test Setup.....	9
2.3. Powerline Conducted Emission Limit [§15.207, Class B]	10
2.4. Operating Condition of EUT	10
2.5. Test Procedure	10
2.6. Conducted Emission Measurement Results.....	11
3. RADIATED EMISSION MEASUREMENT	16
3.1. Test Equipment.....	16
3.2. Test Setup	17
3.3. Radiated Emission Limits (§15.209, RSS-210 §2.7/Table 2).....	19
3.4. Operating Condition of EUT	19
3.5. Test Procedure	20
3.6. Test Results.....	21
4. 6dB BANDWIDTH MEASUREMENT	43
4.1. Test Equipment.....	43
4.2. Block Diagram of Test Setup.....	43
4.3. Specification Limits [§15.247(a)(2)]	43
4.4. Operating Condition of EUT	43
4.5. Test Procedure	43
4.6. Test Results.....	44
5. MAXIMUM PEAK OUTPUT POWER MEASUREMENT	51
5.1. Test Equipment.....	51
5.2. Block Diagram of Test Setup.....	51
5.3. Specification Limits [§15.247(b)-(3)].....	51
5.4. Operating Condition of EUT	51
5.5. Test Procedure	51
5.6. Test Results.....	52
6. EMISSION LIMITATIONS MEASUREMENT	53
7. BAND EDGES MEASUREMENT.....	54
7.1. Test Equipment.....	54
7.2. Block Diagram of Test Setup.....	54
7.3. Specification Limits [§15.247(c)].....	54
7.4. Operating Condition of EUT	54
7.5. Test Procedure	54
7.6. Test Results.....	55
8. POWER SPECTRAL DENSITY MEASUREMENT	59
8.1. Test Equipment.....	59
8.2. Block Diagram of Test Setup.....	59

8.3. Specification Limits [§15.247(d)].....	59
8.4. Operating Condition of EUT	59
8.5. Test Procedure	59
8.6. Test Results.....	60
9. DEVIATION TO TEST SPECIFICATIONS.....	67
10. PHOTOGRAPHS.....	68
10.1. Photos of Conducted Disturbance Measurement.....	68
Link NB Mode	68
Stand-Alone Mode	69
10.2. Photos of Radiated Measurement at Semi-Anechoic Chamber	70
10.3. Photo of Section RF Conducted Measurement	71

TEST REPORT CERTIFICATION

Applicant : INVENTEC BESTA CO., LTD.
EUT Description : Electronic Dictionary
FCC ID : U6OCA012
(A) Model No. : CD-920
(B) Serial No. : N/A
(C) Brand : BESTA
(D) Power Supply : (1)DC 5V (Via USB)
(2)DC 5V (Via Switching Power Supply)
(3)DC 3.7V (Via Battery)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C, Oct. 2012
(FCC CFR 47 Part 15C, §15.205, §15.207, §15.209 and §15.247)
AND ANSI C63.4:2003

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 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: Jul. 02, 2013 ~ Jul. 05, 2013

Date of Report: Jul. 05, 2013

Producer: Tina Huang
(Tina Huang/Administrator)

Signatory: Leon Liu
(Leon Liu/Deputy General Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product	Electronic Dictionary
Model Number	CD-920
Serial Number	N/A
Brand Name	BESTA
Applicant	INVENTEC BESTA CO., LTD. 10FL., No.36, Lane 513, Rui Guang Road, Nei Hu Dist., Taipei 114, Taiwan
FCC ID	U6OCA012
Wireless LAN Module	RL-UM02BS
Fundamental Range	802.11b/g: 2412MHz ~ 2462MHz 802.11n-HT20: 2412MHz ~ 2462MHz 802.11n-HT40: 2422MHz ~ 2452MHz
Frequency Channel	802.11b/g: 11 channels 802.11n-HT20: 2.4GHz: 11 channels 802.11n-HT40: 2.4GHz: 7 channels
Radio Technology	802.11b: DSSS Modulation (DBPSK/DQPSK/CCK) 802.11g: OFDM Modulation (BPSK/QPSK/16QAM/64QAM) 802.11n: OFDM Modulation (SISO) (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 150Mbps
Switching Power Supply (2Pin)	Something High Electric (Xiamen) Co., Ltd. M/N: P12USB050200 US Input: AC 100-240V~, 50/60Hz, 0.3A ; Output: DC 5.0V, 2.0A USB Cable: Shielded, Detachable, 0.9m, Bonded a ferrite core +Shielded, Undetachable, 1.0m
Earphone	Non-Shielded, Detachable, 1.0m
Date of Receipt of Sample	Jun. 21, 2013
Date of Test	Jul. 02, 2013 ~ Jul. 05, 2013

1.2. Antenna Information

Antenna Part Number	Manufacture	Antenna Type	Peak Gain	
			Frequency	Max Gain
WLAN Antenna P/N: HWGA01-LAP 4002	Magic Wireless Technology CO., LTC.	PCB	2400MHz	0.62dBi
			2450MHz	1.25dBi
			2500MHz	1.28dBi

1.3. Data Rate Relative to Peak Output Power

802.11b			
Channel	Modulation	Date Rate (Mbps)	Power (dBm)
1	BPSK	1	12.20
1	BPSK	2	12.19
1	QPSK	5.5	12.19
1	QPSK	11	12.17

802.11g			
Channel	Modulation	Date Rate (Mbps)	Power (dBm)
1	BPSK	6	12.07
1	BPSK	9	12.12
1	QPSK	12	12.17
1	QPSK	18	12.18
1	16-QAM	24	12.14
1	16-QAM	36	12.21
1	64-QAM	48	12.20
1	64-QAM	54	12.18

802.11n-HT20				802.11n-HT40			
Channel	Modulation	Date Rate (Mbps)	Power (dBm)	Channel	Modulation	Date Rate (Mbps)	Power (dBm)
1	BPSK	6.5	12.01	3	BPSK	6.5	12.02
1	QPSK	13	12.07	3	QPSK	13	12.08
1	QPSK	19.5	12.11	3	QPSK	19.5	12.11
1	16-QAM	26	12.14	3	16-QAM	26	12.13
1	16-QAM	39	12.17	3	16-QAM	39	12.16
1	64-QAM	52	12.19	3	64-QAM	52	12.20
1	64-QAM	58.6	12.21	3	64-QAM	58.6	12.24
1	64-QAM	65	12.24	3	64-QAM	65	12.27

1.4. Test Configuration for Each Test Item

Test Item	802.11b	802.11g	802.11n-HT20	802.11n-HT40
	Data Rate for Test (Mbps)			
6db Bandwidth	1	6	6.5	6.5
Maximum Peak Output Power	1	6	6.5	6.5
Emission Limitations	1	6	6.5	6.5
Band Edges	1	6	6.5	6.5
Power Spectral Density	1	6	6.5	6.5

1.5. Tested Supporting System Details

1.5.1. Support Peripheral Unit

No.	Product	Brand	Model No.	Serial No.	FCC ID
1.	Notebook PC	ASUS	N20	N/A	FCC DoC Approved
2.	Power Socket	N/A	N/A	N/A	N/A
3.	SD Card	N/A	E408G1138	N/A	N/A

1.5.2. Cable Lists

No.	Cable Description Of The Above Support Units
1.	Adapter: ASUS, M/N: SADP-65NB BB AC Power Cord: Non-Shielded, Detachable, 1.8m DC Power Cord: Non-Shielded, Undetachable, 1.8m
2.	AC Power Cord: Non-Shielded, Detachable, 1.8m

1.6. Description of Test Facility

Name of Firm : **AUDIX Technology Corporation**
 EMC Department
 No. 53-11, Dingfu, Linkou Dist.,
 New Taipei City 244, Taiwan, R.O.C.

Test Site : **No. 8 Shielded Room &**
 (C8/Semi-AC) No. 53-11, Dingfu, Linkou Dist.,
 New Taipei City 244, Taiwan, R.O.C.
Semi-Anechoic Chamber
 No. 53-11, Dingfu, Linkou Dist.,
 New Taipei City 244, Taiwan, R.O.C.
 May 11, 2012 Renewal on
 Federal Communication Commission
 Registration Number: 90993

NVLAP Lab. Code : 200077-0

TAF Accreditation No : 1724

1.7. Measurement Uncertainty

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

Remark : Uncertainty = $ku_c(y)$

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

2. CONDUCTED EMISSION MEASUREMET

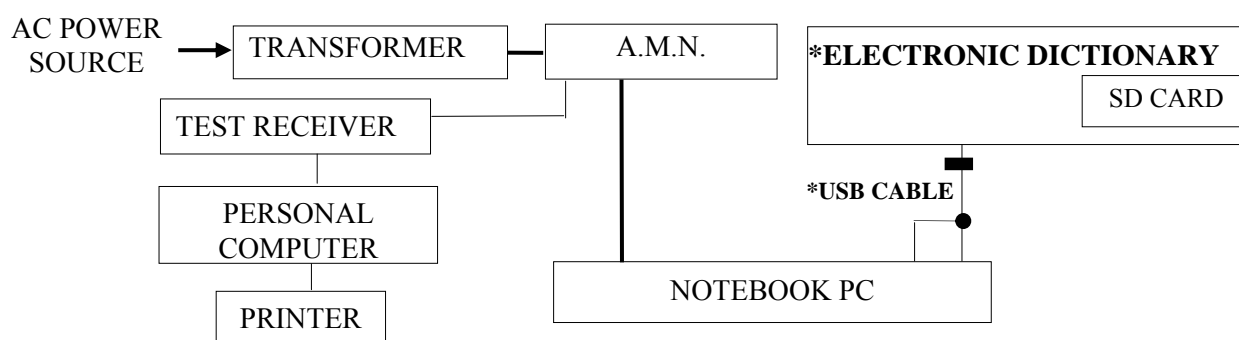
2.1. Test Equipment

The following test equipment was used during the conducted emission measurement : (No. 8 Shielded Room)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCS30	100265	Aug. 24, 12'	Aug. 23, 13'
2.	A.M.N.	R&S	ESH2-Z5	100366	Mar. 19, 13'	Mar. 18, 14'

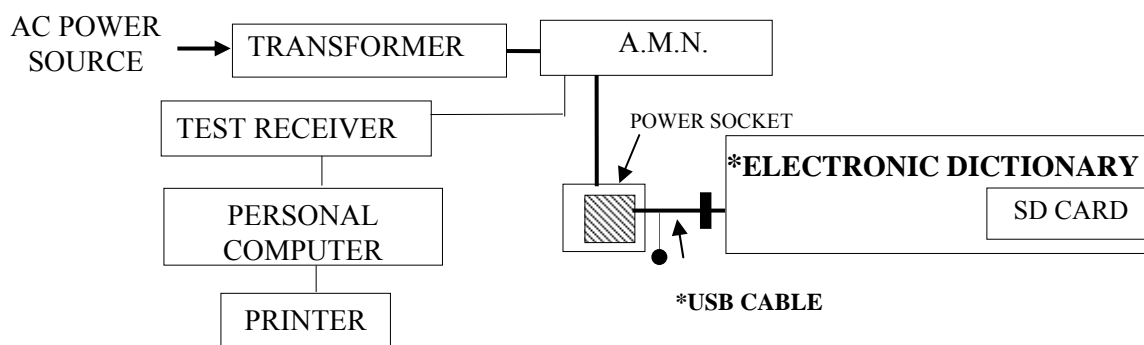
2.2. Block Diagram of Test Setup

2.2.1. Link NB Mode



* : EUT — : DATA CABLE — : POWER CABLE ■ : FERRITE CORE

2.2.2. Stand-Alone (charging) Mode:



* : EUT — : DATA CABLE — : POWER CABLE ■ : FERRITE CORE

▨ : SWITCHING POWER SUPPLY

2.3. Powerline Conducted Emission Limit [§15.207, Class B]

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. To turn on the power of all equipment.

2.4.3. Link NB Mode: The Electronic Dictionary (EUT) upload/downloaded data into/from the PC system via the USB cable.

2.4.4. Stand-Alone (charging) Mode: The Electronic Dictionary (EUT) charging with Switching Power Supply via the USB cable.

2.4.5. The other peripheral devices were driven and operated in turn during all testing.

2.5. Test Procedure

The EUT (Link Notebook PC or Switching Power Supply) was placed on the table which was above the ground by 80cm and it's Notebook PC's adapter power cord or its Switching Power Supply power cord connected to the AC mains through an Artificial Mains Network (A.M.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 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 with following test modes was performed during this section testing and all the test results are attached in next pages.

EUT: Electronic Dictionary

Model No.: CD-920

Test Date: Jul. 02, 2013 Temperature: 25 Humidity: 62%

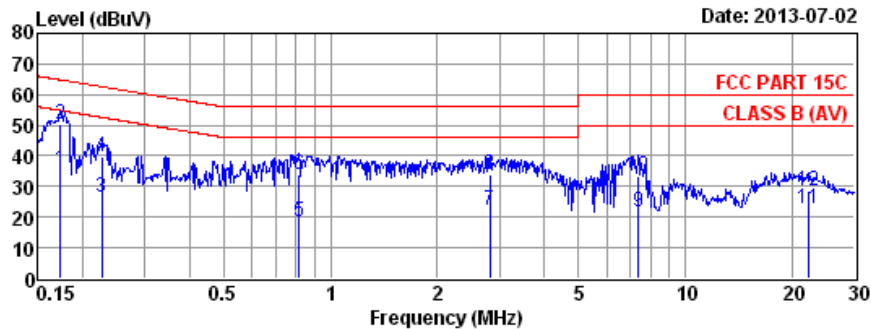
The details are as follows :

Mode	Test Voltage	Operation of EUT	Reference Test Data No.	
			Neutral	Line
1	AC 120V/60Hz (Via Notebook)	Operating (Link NB)	# 2	# 1
2	AC 120V/60Hz (Via Switching Power Supply)	Charge	# 4	# 3



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Data: 2 File: D:\test data\REPORT\2013\1M1306XXX\1M1306243-C-D.EM6 (4)



Site no. : No.8 Shielded Room Data no. : 2
 Dis. / Ant. : ESH2-Z5 366 Ant. pol. : NEUTRAL
 Limit : FCC PART 15C
 Env. / Ins. : 25°C / 62% ESCS (265) Engineer : Jack_Wu
 EUT : CD-920
 Power Rating : 120Vac/60Hz
 Test Mode : Operating

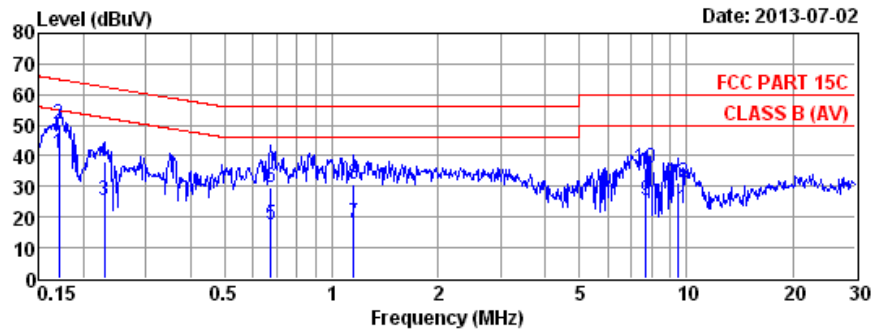
	Freq. (MHz)	AMN. Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.173	0.10	0.04	35.56	35.70	54.81	19.11	Average
2	0.173	0.10	0.04	50.04	50.18	64.81	14.63	QP
3	0.227	0.10	0.04	26.59	26.73	52.57	25.84	Average
4	0.227	0.10	0.04	39.73	39.87	62.57	22.70	QP
5	0.817	0.18	0.05	18.57	18.80	46.00	27.20	Average
6	0.817	0.18	0.05	33.45	33.68	56.00	22.32	QP
7	2.809	0.20	0.10	21.78	22.08	46.00	23.92	Average
8	2.809	0.20	0.10	33.71	34.01	56.00	21.99	QP
9	7.368	0.27	0.17	21.27	21.71	50.00	28.29	Average
10	7.368	0.27	0.17	33.10	33.54	60.00	26.46	QP
11	22.180	0.50	0.26	21.90	22.66	50.00	27.34	Average
12	22.180	0.50	0.26	27.78	28.54	60.00	31.46	QP

Remarks: 1. Emission Level= AMN 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.



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Data: 1 File: D:\test data\REPORT\2013\1M1306XXX\1M1306243-C-D.EM6 (4)



Site no. : No.8 Shielded Room Data no. : 1
 Dis. / Ant. : ESH2-Z5 366 Ant. pol. : LINE
 Limit : FCC PART 15C
 Env. / Ins. : 25°C / 62% ESCS (265) Engineer : Jack_Wu
 EUT : CD-920
 Power Rating : 120Vac/60Hz
 Test Mode : Operating

	Freq. (MHz)	AMN. Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.170	0.10	0.04	40.54	40.68	54.94	14.26	Average
2	0.170	0.10	0.04	50.33	50.47	64.94	14.47	QP
3	0.229	0.10	0.04	25.23	25.37	52.48	27.11	Average
4	0.229	0.10	0.04	37.90	38.04	62.48	24.44	QP
5	0.675	0.16	0.04	17.04	17.24	46.00	28.76	Average
6	0.675	0.16	0.04	29.34	29.54	56.00	26.46	QP
7	1.153	0.20	0.06	17.53	17.79	46.00	28.21	Average
8	1.153	0.20	0.06	30.26	30.52	56.00	25.48	QP
9	7.687	0.27	0.17	25.03	25.47	50.00	24.53	Average
10	7.687	0.27	0.17	35.55	35.99	60.00	24.01	QP
11	9.451	0.29	0.19	22.48	22.96	50.00	27.04	Average
12	9.451	0.29	0.19	30.74	31.22	60.00	28.78	QP

Remarks: 1. Emission Level= AMN 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.

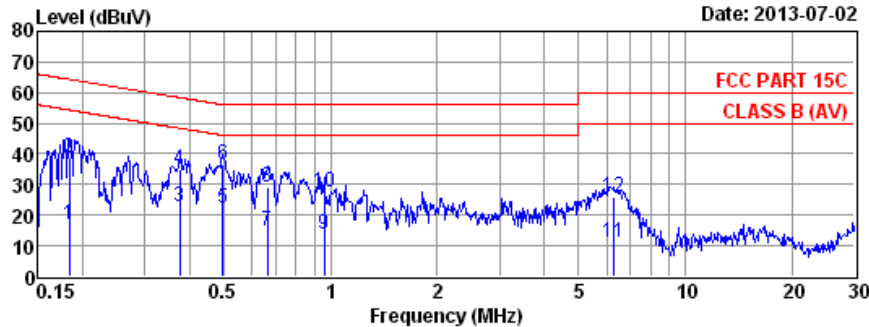


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Data: 4

File: D:\test data\REPORT\2013\1M1306XXX\1M1306243-C-D.EM6 (4)

Date: 2013-07-02



Site no. : No.8 Shielded Room Data no. : 4
Dis. / Ant. : ESH2-Z5 366 Ant. pol. : NEUTRAL
Limit : FCC PART 15C
Env. / Ins. : 25°C / 62% ESCS (265) Engineer : Jack_Wu
EUT : CD-920
Power Rating : 120Vac/60Hz
Test Mode : Charge

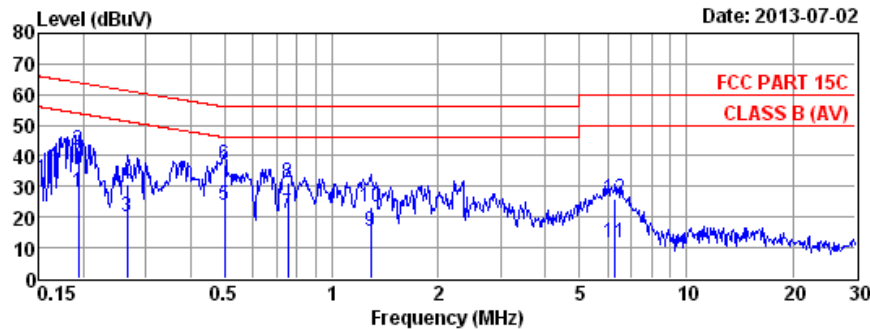
	Freq. (MHz)	AMN. Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.183	0.10	0.04	16.83	16.97	54.33	37.36	Average
2	0.183	0.10	0.04	38.57	38.71	64.33	25.62	QP
3	0.375	0.10	0.04	22.69	22.83	48.39	25.56	Average
4	0.375	0.10	0.04	34.94	35.08	58.39	23.31	QP
5	0.497	0.12	0.04	21.94	22.10	46.05	23.95	Average
6	0.497	0.12	0.04	36.46	36.62	56.05	19.43	QP
7	0.665	0.15	0.04	14.68	14.87	46.00	31.13	Average
8	0.665	0.15	0.04	29.05	29.24	56.00	26.76	QP
9	0.958	0.19	0.05	13.44	13.68	46.00	32.32	Average
10	0.958	0.19	0.05	27.23	27.47	56.00	28.53	QP
11	6.252	0.25	0.15	10.91	11.31	50.00	38.69	Average
12	6.252	0.25	0.15	25.47	25.87	60.00	34.13	QP

Remarks: 1. Emission Level= AMN 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.



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Data: 3 File: D:\test data\REPORT\2013\1M1306XXX\1M1306243-C-D.EM6 (4)



Site no. : No.8 Shielded Room Data no. : 3
Dis. / Ant. : ESH2-Z5 366 Ant. pol. : LINE
Limit : FCC PART 15C
Env. / Ins. : 25°C / 62% ESCS (265) Engineer : Jack_Wu
EUT : CD-920
Power Rating : 120Vac/60Hz
Test Mode : Charge

	Freq. (MHz)	AMN. Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.193	0.10	0.04	27.81	27.95	53.89	25.94	Average
2	0.193	0.10	0.04	41.87	42.01	63.89	21.88	QP
3	0.266	0.10	0.04	19.79	19.93	51.25	31.32	Average
4	0.266	0.10	0.04	30.38	30.52	61.25	30.73	QP
5	0.499	0.12	0.04	23.91	24.07	46.01	21.94	Average
6	0.499	0.12	0.04	36.98	37.14	56.01	18.87	QP
7	0.755	0.17	0.04	21.04	21.25	46.00	24.75	Average
8	0.755	0.17	0.04	31.03	31.24	56.00	24.76	QP
9	1.289	0.20	0.06	15.19	15.45	46.00	30.55	Average
10	1.289	0.20	0.06	23.31	23.57	56.00	32.43	QP
11	6.285	0.25	0.15	11.08	11.48	50.00	38.52	Average
12	6.285	0.25	0.15	25.37	25.77	60.00	34.23	QP

Remarks: 1. Emission Level= AMN 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)

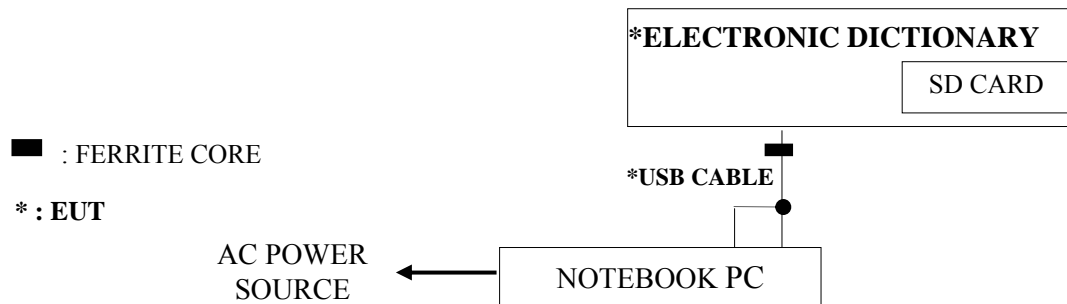
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 08, 12'	Aug. 06, 13'
2.	Test Receiver	R & S	ESCS30	100338	Jul. 01, 13'	Jun. 30, 14'
3.	Amplifier	HP	8447D	2944A06305	Feb. 29, 13'	Feb. 28, 14'
4.	Biconical Antenna	CHASE	VBA6106A	1264	Mar. 02, 13'	Mar. 04, 14'
5.	Log Periodic Antenna	Schwarzbeck	UHALP9108-A	0810	Mar. 02, 13'	Mar. 04, 14'

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

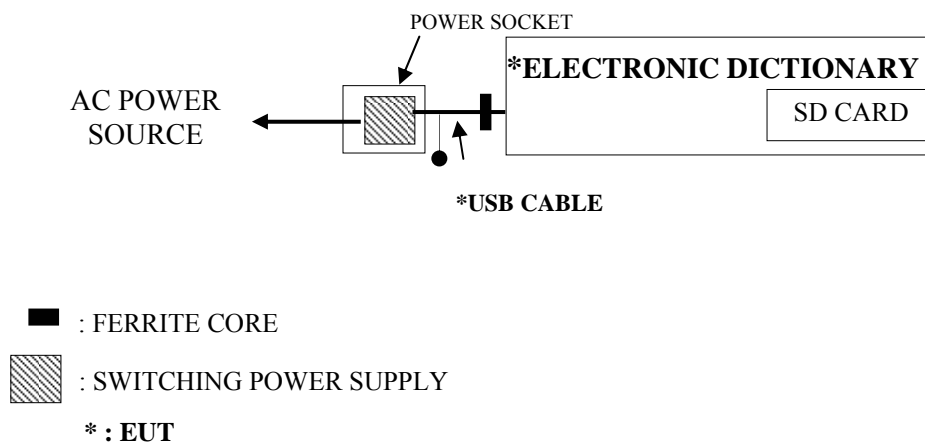
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 07, 12'	Aug. 06, 13'
2.	Test Receiver	R & S	ESCS30	100338	Jul. 01, 13'	Jun. 30, 14'
3.	Pre-Amplifier	HP	8449B	3008A02678	Mar. 08, 13'	Mar. 07, 14'
4.	2.4GHz Notch Filter	K&L	7NSL10-2441.5E130.5-00	1	Jun. 13, 13'	Jun. 12, 14'
5.	3.5G High Pass Filter	Microwave Circuits	H3G018G1	484796	Jun. 13, 13'	Jun. 12, 14'
6.	Horn Antenna	EMCO	3115	9112-3775	May 07, 13'	May 06, 14'
7.	Horn Antenna	EMCO	3116	2653	Oct. 15, 12'	Oct. 14, 13'

3.2. Test Setup

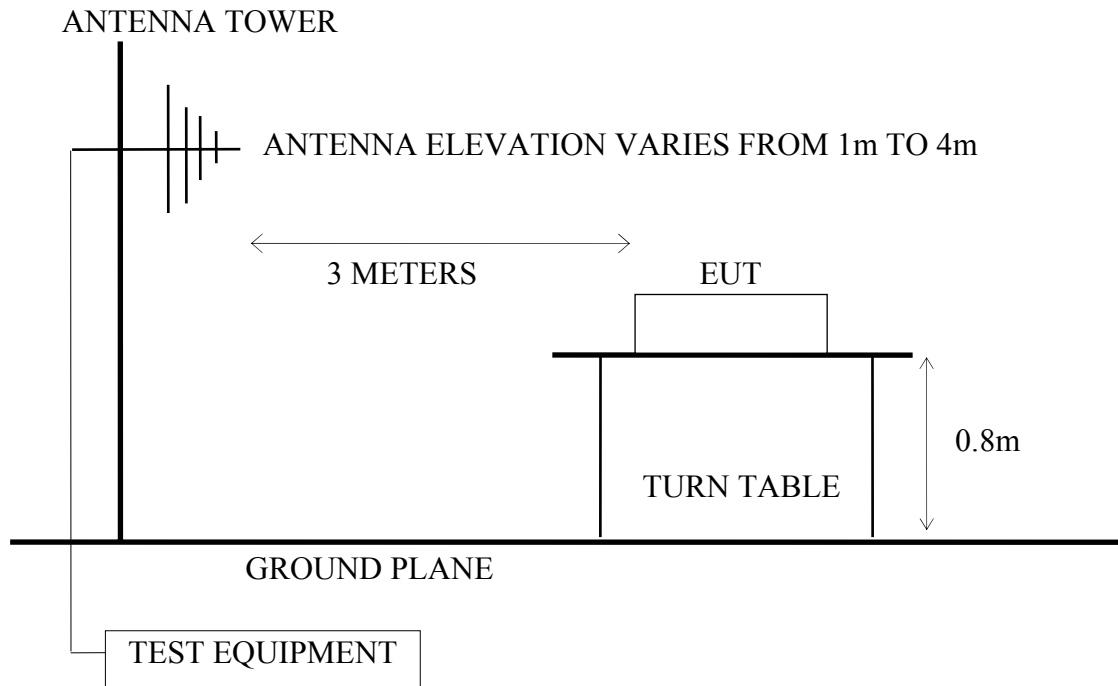
3.2.1. Block Diagram of connection between EUT and simulators (TX Mode)



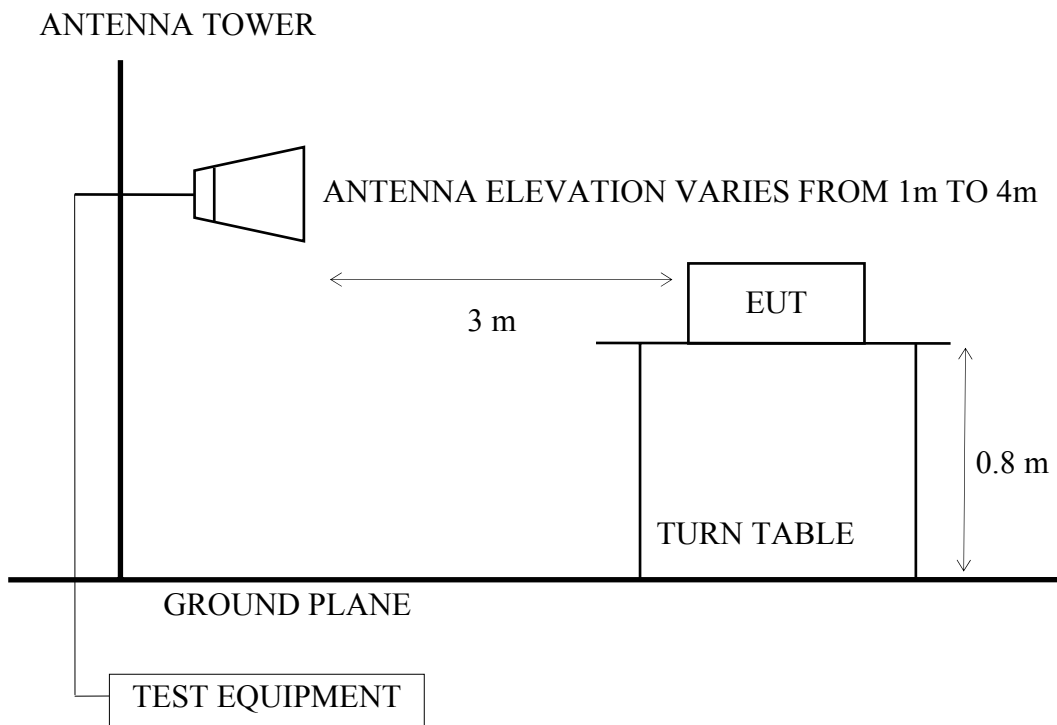
(Charge Mode)



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, RSS-210 §2.7/Table 2)

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. The Electronic Dictionary (EUT) can be operated with battery (DC 3.7V), USB port (DC 5V) or switching power supply (120Vac transfer to DC 5V), after pre-scanning stand(x), lie(y) and side(z) axes that x axis is the worst axis. We do TX test in stand configuration and associated with USB to connect to notebook, and associated with switching supply for charge mode.

3.4.2. Charge mode: The Electronic Dictionary (EUT) charging with Switching Power Supply via the USB cable.

3.4.3. TX Mode: The test program “adb.exe” was used to enable the EUT to transmit data at different channel frequency individually.

3.4.4. The EUT supports 802.11b/g/n-HT20/n-HT40 modes, we performed pre-scan high, middle, low channels for each mode for spurious emission and listed the worst channel of each mode in test report.

3.4.5. The worst channel of each mode as following:

Mode	Type of Network	Channel
1.	802.11b	CH 1
2.	802.11g	CH 1
3.	802.11n-HT20	CH 6
4.	802.11n-HT40	CH 9

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 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.

Pursuant to ANSI C63.4 8.3.1.2, when peak value complies with the average limit, we didn't perform measurement in average detector.

3.6. Test Results

PASSED.

(All emissions not reported for there is no emission be found.)

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.

EUT: Electronic Dictionary

M/N: CD-920

Test Date: Jul. 05, 2013 Temperature: 26 Humidity: 61%

No.	Test Voltage	Type	Channel	Frequency	Test Mode	Reference Test Data No.	
						Horizontal	Vertical
1	AC 120V/60Hz (Via Switching Power Supply)	---	---	---	Charge	# 2	# 1
2	DC 5V (Via NB)	802.11b	CH 11	2462MHz	Transmit	# 12	# 11
3		802.11g	CH 11	2462MHz		# 12	# 11
4		802.11n-HT20	CH 11	2462MHz		# 12	# 11
5		802.11n-HT40	CH 9	2452MHz		# 14	# 13

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

For Frequency above 1GHz:

Remark : The emissions (up to 25GHz) not reported are too low to be measured.

For Restricted Bands:

The EUT was tested in restricted bands and all the test results are listed in section 3.6.2. (The restricted bands defined in part 15.205(a))

No.	Test Voltage	Type	Channel	Frequency	Test Mode	Reference Test Data No.	
						Horizontal	Vertical
1	DC 5V (Via NB)	802.11b	CH 6	2412MHz	Transmit	# 3, # 4	# 1, # 2
2			CH 11	2462MHz		# 7, # 8	# 5, # 6
3		802.11g	CH 6	2412MHz		# 3, # 4	# 1, # 2
4			CH 11	2462MHz		# 7, # 8	# 5, # 6
5		802.11n-HT20	CH 6	2412MHz		# 3, # 4	# 1, # 2
6			CH 11	2462MHz		# 7, # 8	# 5, # 6
7		802.11n-HT40	CH 2	2422MHz		# 3, # 4	# 1, # 2
8			CH 9	2452MHz		# 7, # 8	# 5, # 6

3.6.1. For 30-1000MHz Frequency Range Measurement Results

Charge

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 26°C/61% Wenbin_yang
 EUT : CD-920
 Power Rating : AC120V
 Test Mode : CHARGE

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	292.870	26.24	3.90	22.14	26.58	46.00	19.42	QP
2	710.940	23.54	6.51	23.60	26.26	46.00	19.74	QP
3	974.780	26.52	7.70	24.38	31.83	54.00	22.17	QP

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. : E4446A 26°C/61% Wenbin_yang
 EUT : CD-920
 Power Rating : AC120V
 Test Mode : CHARGE

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	297.720	26.68	3.98	20.99	25.95	46.00	20.05	QP
2	704.150	23.56	6.60	24.03	26.80	46.00	19.20	QP
3	962.170	26.54	7.60	23.77	31.11	54.00	22.89	QP

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. : 12
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 26°C/61% Wenbin_yang
 EUT : CD-920
 Power Rating : DC5V
 Test Mode : TX2462 b

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	218.180	21.91	3.20	3.55	28.66	46.00	17.34	QP
2	504.330	19.02	6.62	5.33	30.97	46.00	15.03	QP
3	745.860	22.91	6.65	1.50	31.06	46.00	14.94	QP
4	830.250	24.75	7.10	-0.17	31.68	46.00	14.32	QP

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 VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 26°C/61% Wenbin_yang
 EUT : CD-920
 Power Rating : DC5V
 Test Mode : TX2462 b

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	207.510	21.88	3.12	6.44	31.43	43.50	12.07	QP
2	553.800	19.40	6.80	2.93	29.13	46.00	16.87	QP
3	697.360	23.32	6.50	-0.14	29.68	46.00	16.32	QP
4	959.260	26.38	7.60	-2.87	31.11	46.00	14.89	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official

802.11g , Transmit, Frequency: 2462MHz

Site no. : A/C Chamber Data no. : 12
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 26°C/61% Wenbin_yang
 EUT : CD-920
 Power Rating : DC5V
 Test Mode : TX2462 g

	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	5.60	30.26	43.50	13.24	QP
2	484.930	18.80	6.20	2.01	27.00	46.00	19.00	QP
3	649.830	21.50	6.30	-0.33	27.46	46.00	18.54	QP
4	830.250	24.75	7.10	-0.61	31.23	46.00	14.77	QP

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 VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 26°C/61% Wenbin_yang
 EUT : CD-920
 Power Rating : DC5V
 Test Mode : TX2462 g

	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	3.44	27.07	43.50	16.43	QP
2	483.960	18.84	6.14	3.71	28.69	46.00	17.31	QP
3	697.360	23.32	6.50	0.66	30.48	46.00	15.52	QP
4	961.200	26.50	7.60	-3.42	30.68	54.00	23.32	QP

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. : 12
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 26°C/61% Wenbin_yang
 EUT : CD-920
 Power Rating : DC5V
 Test Mode : TX2462 n20

	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	3.93	28.58	43.50	14.92	QP
2	504.330	19.02	6.62	5.23	30.87	46.00	15.13	QP
3	697.360	23.32	6.50	4.21	34.03	46.00	11.97	QP
4	828.310	24.62	7.10	3.61	35.33	46.00	10.67	QP

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 VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 26°C/61% Wenbin_yang
 EUT : CD-920
 Power Rating : DC5V
 Test Mode : TX2462 n20

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	166.770	20.96	2.70	2.80	26.46	43.50	17.04	QP
2	415.090	16.99	5.10	2.02	24.11	46.00	21.89	QP
3	697.360	23.32	6.50	0.02	29.84	46.00	16.16	QP
4	828.310	24.62	7.10	1.38	33.10	46.00	12.90	QP

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. : 14
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 26°C/61% Wenbin_yang
 EUT : CD-920
 Power Rating : DC5V
 Test Mode : TX2452 n40

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	275.410	25.25	3.70	3.57	32.52	46.00	13.48	QP
2	551.860	19.23	6.80	1.33	27.35	46.00	18.65	QP
3	963.140	26.63	7.60	-3.10	31.13	54.00	22.87	QP

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. : 13
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 26°C/61% Wenbin_yang
 EUT : CD-920
 Power Rating : DC5V
 Test Mode : TX2452 n40

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	166.770	20.96	2.70	2.51	26.17	43.50	17.33	QP
2	504.330	19.02	6.62	2.60	28.24	46.00	17.76	QP
3	863.230	26.09	7.20	-4.16	29.13	46.00	16.87	QP

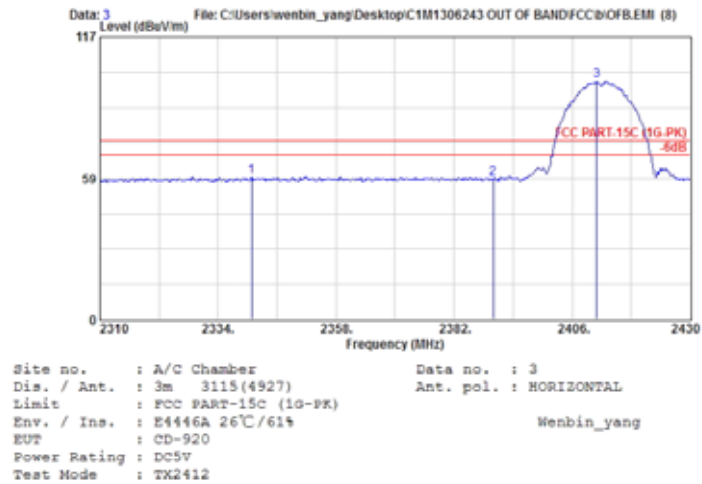
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official
 limit are not reported.

3.6.2. Restricted Bands Measurement Results

Date of Test : Jul. 05, 2013 Temperature: 26

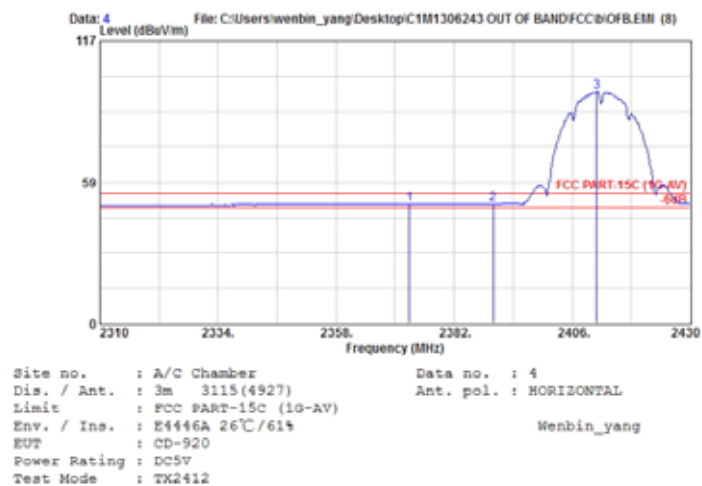
EUT: Electronic Dictionary Humidity: 61%

Test Mode: 802.11b , Transmit, Channel: 01, Frequency: 2412MHz



	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2340.840	28.36	6.28	58.76	59.13	74.00	14.87	Peak
2	2390.000	28.47	6.34	57.58	58.12	74.00	15.88	Peak
3	2411.040	28.51	6.36	98.24	98.84	74.00	-24.84	Peak

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



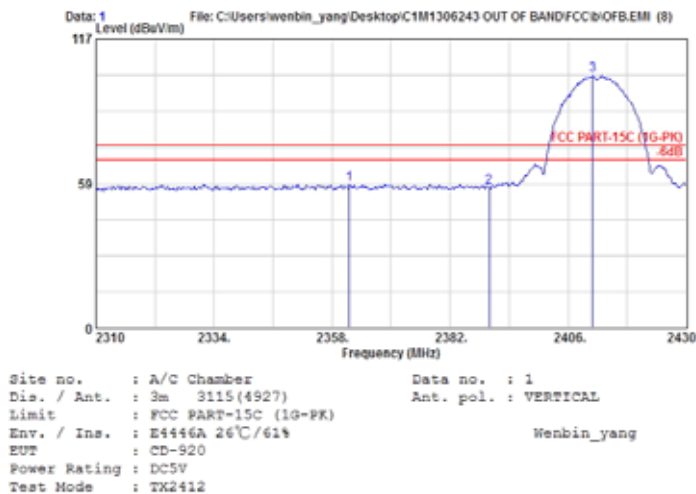
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2372.880	28.43	6.31	48.81	49.29	54.00	4.71	Average
2	2390.000	28.47	6.34	48.83	49.36	54.00	4.64	Average
3	2411.040	28.51	6.36	95.23	95.83	54.00	-41.83	Average

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 : Jul. 05, 2013 Temperature: 26

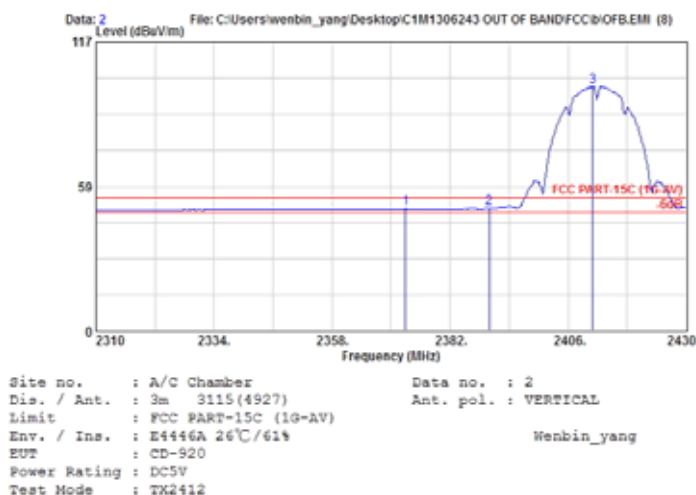
EUT: Electronic Dictionary Humidity: 61%

Test Mode: 802.11b , Transmit, Channel: 01, Frequency: 2412MHz



	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2361.480	28.40	6.30	23.79	58.49	74.00	15.51	Peak
2	2390.000	28.47	6.34	22.00	56.81	74.00	17.19	Peak
3	2411.040	28.51	6.36	67.36	102.23	74.00	-28.23	Peak

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



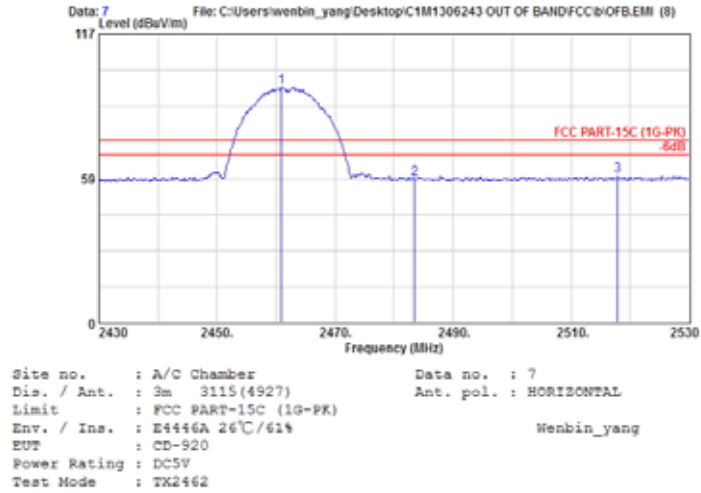
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2372.880	28.43	6.31	49.03	49.51	54.00	4.49	Average
2	2390.000	28.47	6.34	48.99	49.52	54.00	4.48	Average
3	2411.040	28.51	6.36	98.56	99.15	54.00	-45.15	Average

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 : Jul. 05, 2013 Temperature: 26

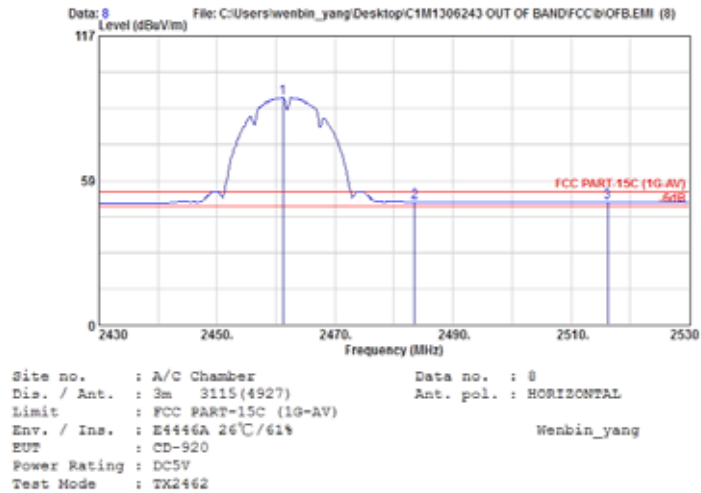
EUT: Electronic Dictionary Humidity: 61%

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



	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.900	28.62	6.42	94.79	95.55	74.00	-21.55	Peak
2	2483.500	28.66	6.45	57.41	58.23	74.00	15.77	Peak
3	2517.900	28.76	6.49	58.47	59.41	74.00	14.59	Peak

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



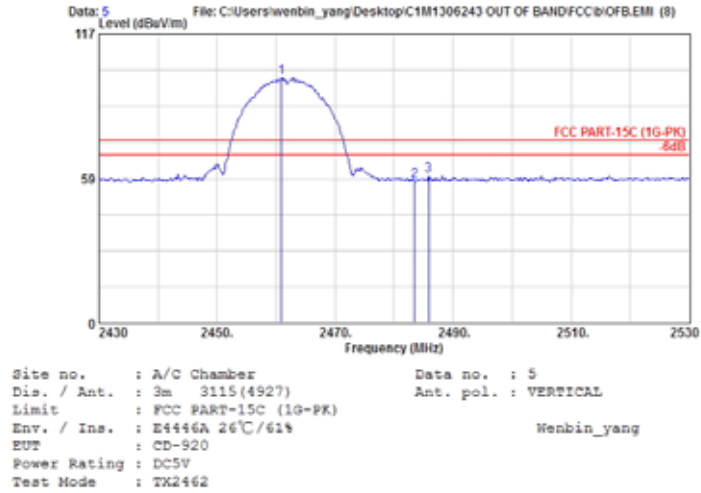
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.200	28.62	6.42	91.39	92.15	54.00	-38.15	Average
2	2483.500	28.66	6.45	48.75	49.56	54.00	4.44	Average
3	2516.200	28.76	6.49	48.90	49.84	54.00	4.16	Average

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 : Jul. 05, 2013 Temperature: 26

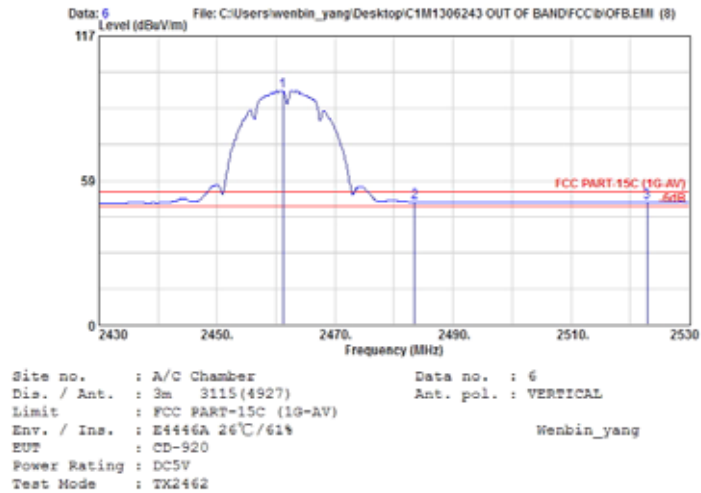
EUT: Electronic Dictionary Humidity: 61%

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



	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.900	28.62	6.42	98.52	99.28	74.00	-25.28	Peak
2	2483.500	28.66	6.45	56.74	57.56	74.00	16.44	Peak
3	2485.900	28.66	6.45	58.96	59.78	74.00	14.22	Peak

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



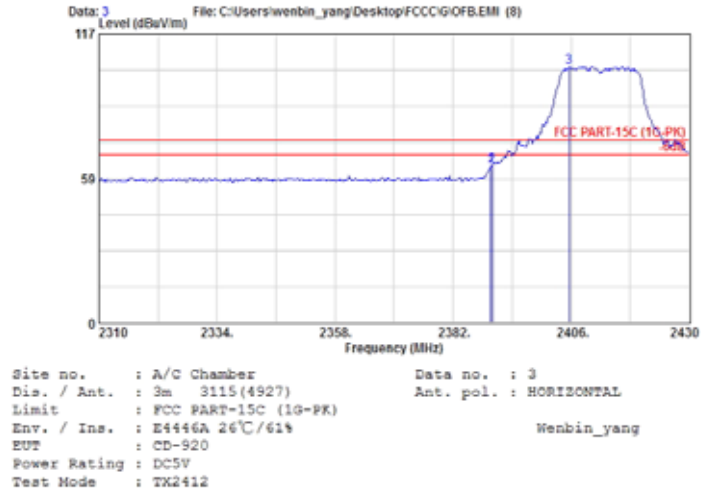
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.200	28.62	6.42	94.10	94.85	54.00	-40.85	Average
2	2483.500	28.66	6.45	48.82	49.64	54.00	4.36	Average
3	2522.900	28.81	6.50	48.84	49.85	54.00	4.15	Average

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 : Jul. 05, 2013 Temperature: 26

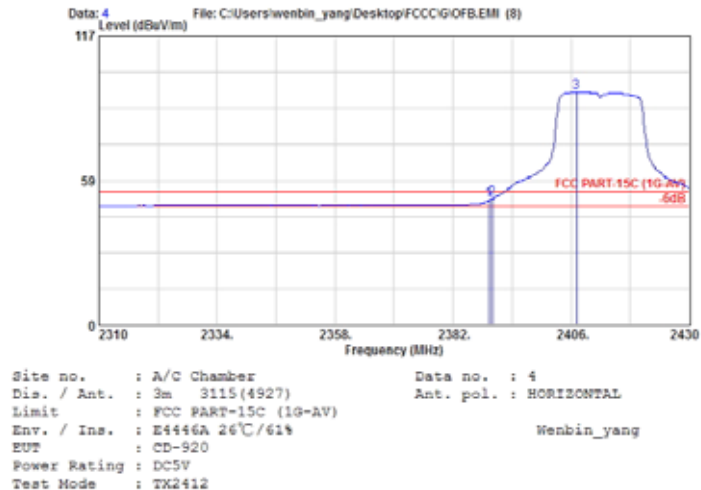
EUT: Electronic Dictionary Humidity: 61%

Test Mode: 802.11g , Transmit, Channel: 01, Frequency: 2412MHz



	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.680	28.47	6.34	28.48	63.30	74.00	10.70	Peak
2	2390.000	28.47	6.34	28.53	63.35	74.00	10.65	Peak
3	2405.640	28.51	6.36	68.78	103.65	74.00	-29.65	Peak

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



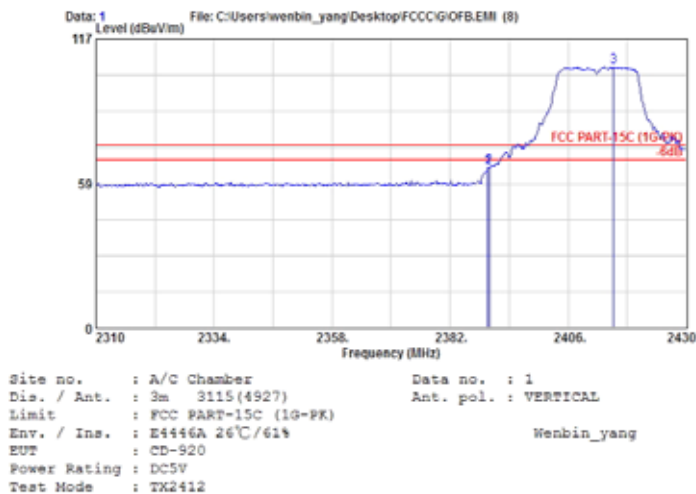
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.320	28.47	6.34	15.64	50.45	54.00	3.55	Average
2	2390.000	28.47	6.34	16.25	51.06	54.00	2.94	Average
3	2407.080	28.51	6.36	59.38	94.25	54.00	-40.25	Average

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 : Jul. 05, 2013 Temperature: 26

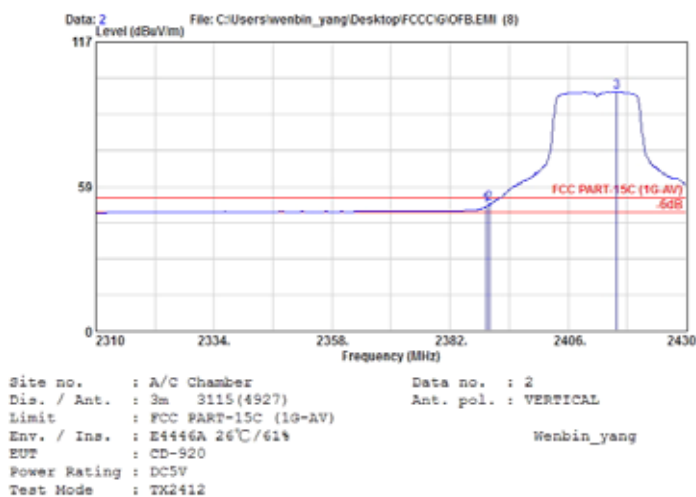
EUT: Electronic Dictionary Humidity: 61%

Test Mode: 802.11g , Transmit, Channel: 01, Frequency: 2412MHz



	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.680	28.47	6.34	29.86	64.68	74.00	9.32	Peak
2	2390.000	28.47	6.34	30.28	65.09	74.00	8.91	Peak
3	2415.240	28.51	6.36	71.07	105.94	74.00	-31.94	Peak

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



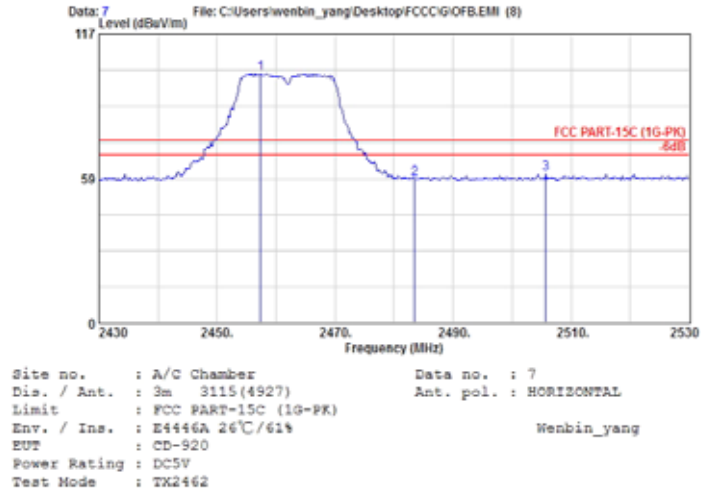
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.320	28.47	6.34	15.71	50.53	54.00	3.47	Average
2	2390.000	28.47	6.34	16.43	51.24	54.00	2.76	Average
3	2415.840	28.51	6.36	61.93	96.80	54.00	-42.80	Average

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 : Jul. 05, 2013 Temperature: 26

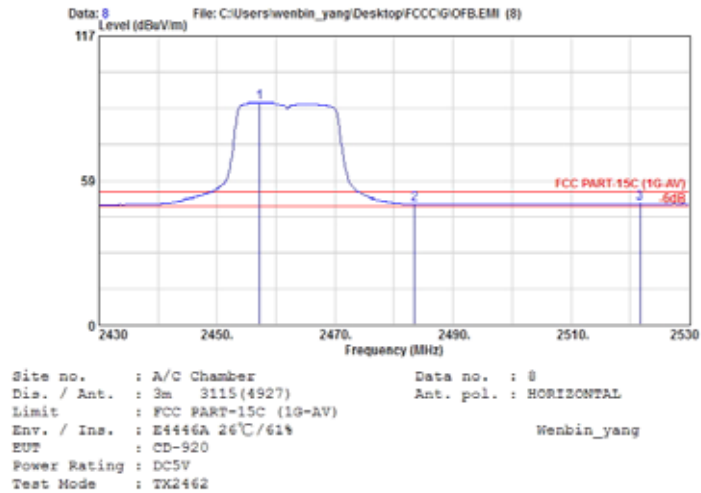
EUT: Electronic Dictionary Humidity: 61%

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



	Freq.	Ant. Factor	Cable Loss	Reading	Emission Level	Limit	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2457.400	28.62	6.42	66.27	101.31	74.00	-27.31	Peak
2	2483.500	28.66	6.45	23.34	58.46	74.00	15.54	Peak
3	2505.700	28.76	6.48	25.12	60.36	74.00	13.64	Peak

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



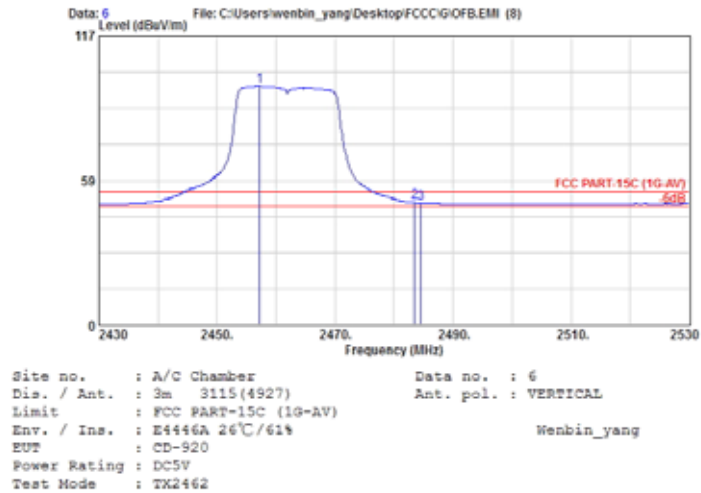
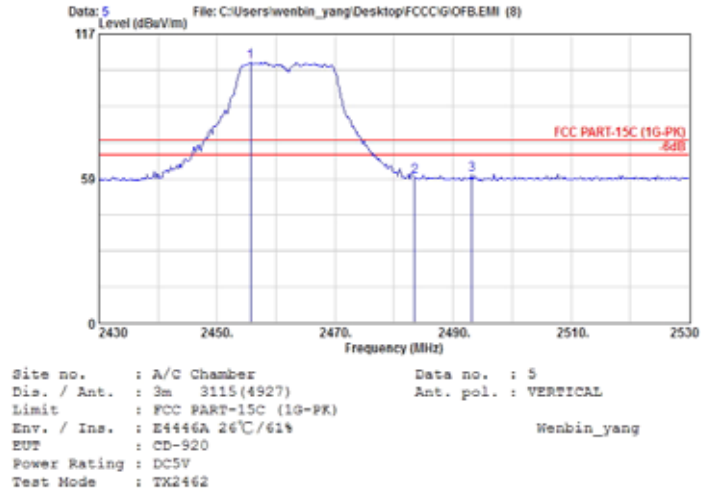
	Freq.	Ant. Factor	Cable Loss	Reading	Emission Level	Limit	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2457.200	28.62	6.42	55.10	90.14	54.00	-36.14	Average
2	2483.500	28.66	6.45	13.82	48.93	54.00	5.07	Average
3	2521.700	28.81	6.50	13.78	49.09	54.00	4.91	Average

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

Date of Test : Jul. 05, 2013 Temperature: 26

EUT: Electronic Dictionary Humidity: 61%

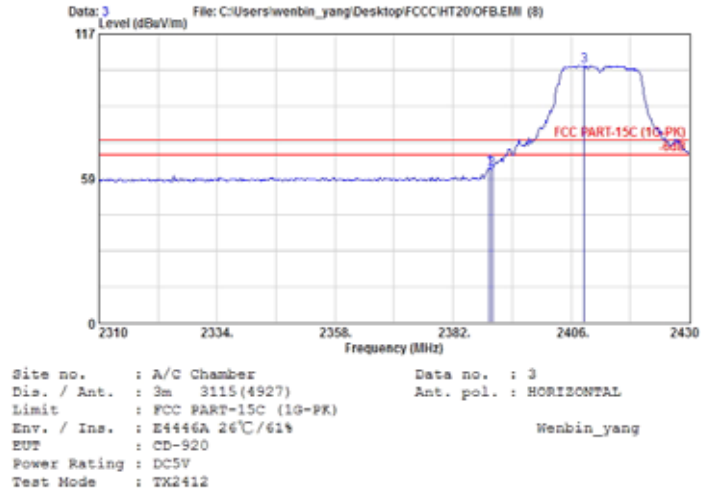
Test Mode: 802.11g , Transmit, Channel: 11, Frequency: 2462MHz



Date of Test : Jul. 05, 2013 Temperature: 26

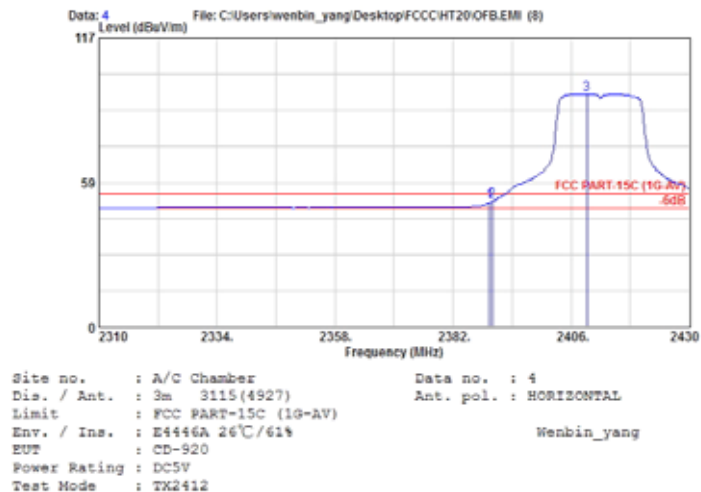
EUT: Electronic Dictionary Humidity: 61%

Test Mode: 802.11n-HT20 , Transmit, Channel: 01, Frequency: 2412MHz



	Freq.	Ant. Factor	Cable Loss	Reading	Emission Level	Limit	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.440	28.47	6.34	28.30	63.11	74.00	10.89	Peak
2	2390.000	28.47	6.34	27.18	61.99	74.00	12.01	Peak
3	2408.640	28.51	6.36	69.31	104.18	74.00	-30.18	Peak

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



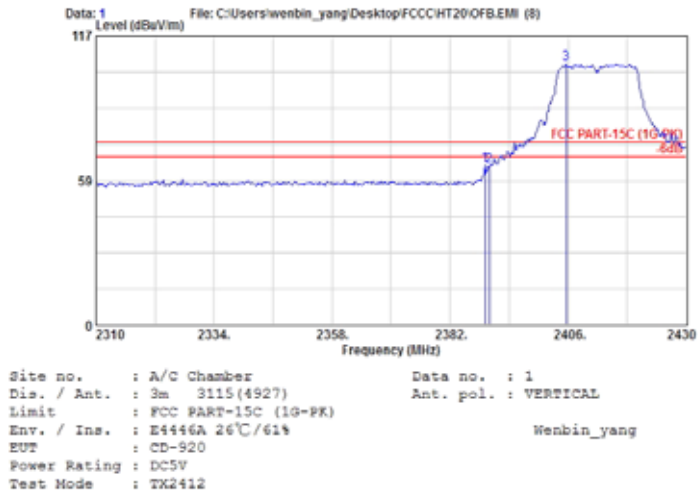
	Freq.	Ant. Factor	Cable Loss	Reading	Emission Level	Limit	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.440	28.47	6.34	15.56	50.38	54.00	3.62	Average
2	2390.000	28.47	6.34	16.06	50.87	54.00	3.13	Average
3	2409.240	28.51	6.36	59.60	94.48	54.00	-40.48	Average

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 : Jul. 05, 2013 Temperature: 26

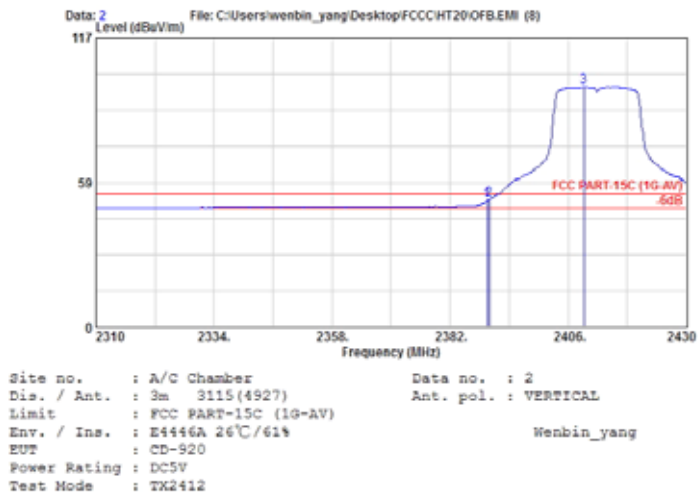
EUT: Electronic Dictionary Humidity: 61 %

Test Mode: 802.11n-HT20 , Transmit, Channel: 01, Frequency: 2412MHz



	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2389.080	28.47	6.34	29.78	64.60	74.00	9.40	Peak
2	2390.000	28.47	6.34	29.44	64.25	74.00	9.75	Peak
3	2405.640	28.51	6.36	70.94	105.81	74.00	-31.81	Peak

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



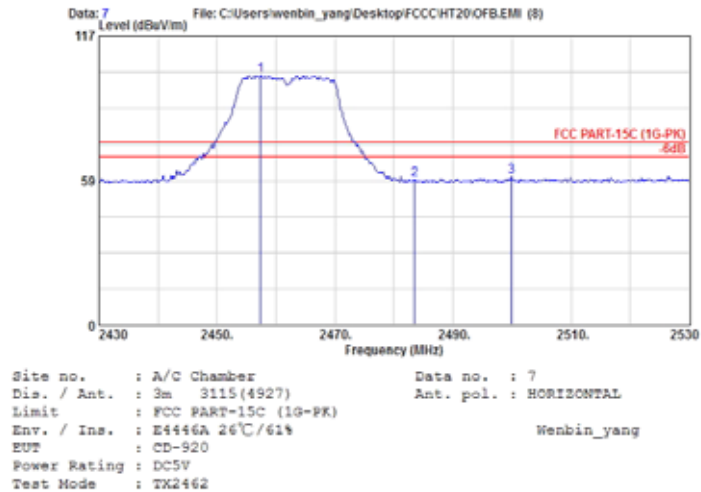
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2389.560	28.47	6.34	16.34	51.15	54.00	2.85	Average
2	2390.000	28.47	6.34	16.79	51.60	54.00	2.40	Average
3	2409.240	28.51	6.36	62.35	97.22	54.00	-43.22	Average

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

Date of Test : Jul. 05, 2013 Temperature: 26

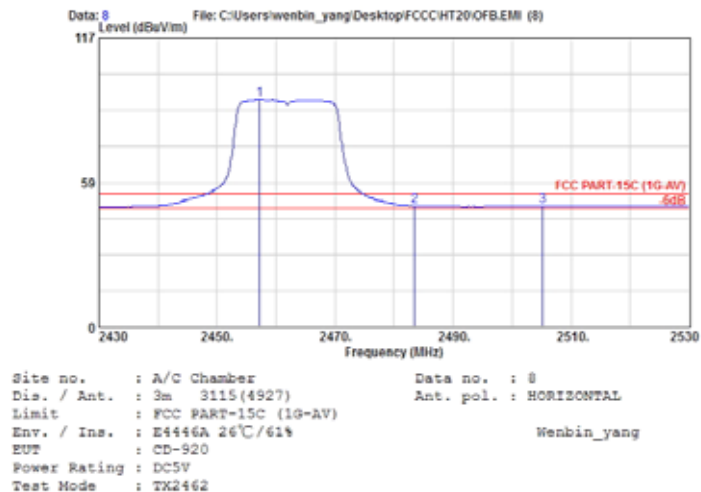
EUT: Electronic Dictionary Humidity: 61%

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



	Freq.	Ant. Factor	Cable Loss	Reading	Emission Level	Limit	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2457.400	28.62	6.42	66.20	101.25	74.00	-27.25	Peak
2	2483.500	28.66	6.45	23.61	58.72	74.00	15.28	Peak
3	2499.900	28.70	6.47	24.88	60.05	74.00	13.95	Peak

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



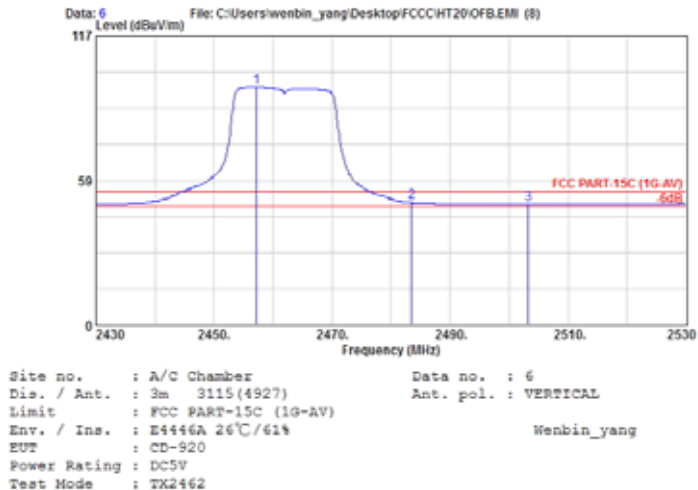
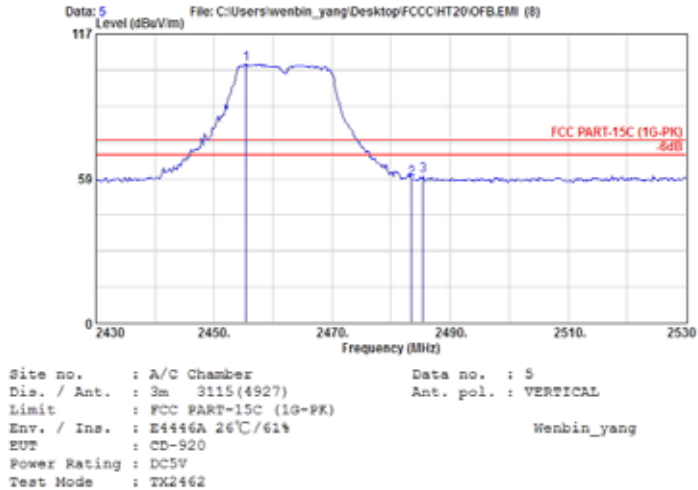
	Freq.	Ant. Factor	Cable Loss	Reading	Emission Level	Limit	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2457.200	28.62	6.42	56.99	92.03	54.00	-38.03	Average
2	2483.500	28.66	6.45	13.84	48.96	54.00	5.04	Average
3	2505.200	28.76	6.48	13.59	48.83	54.00	5.17	Average

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 : Jul. 05, 2013 Temperature: 26

EUT: Electronic Dictionary Humidity: 61%

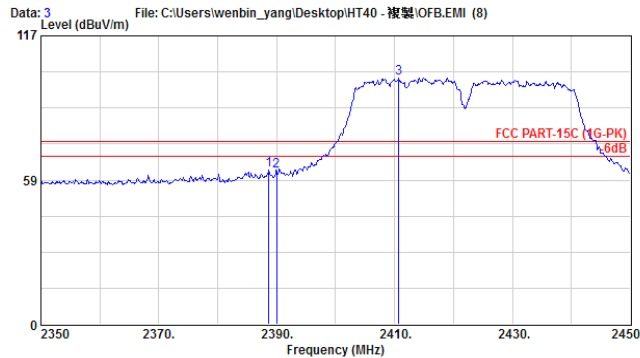
Test Mode: 802.11n-HT20 , Transmit, Channel: 11, Frequency: 2462MHz



Date of Test : Jul. 05, 2013 Temperature: 26

EUT: Electronic Dictionary Humidity: 61%

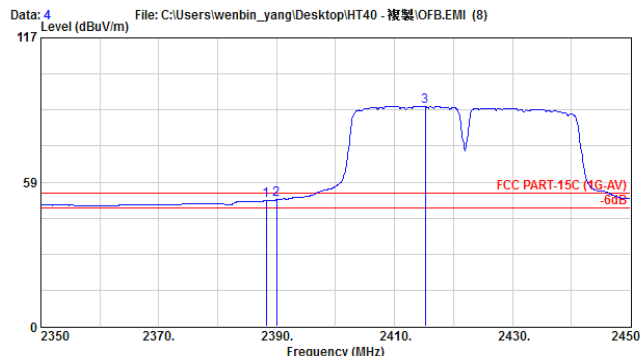
Test Mode: 802.11n-HT40 , Transmit, Channel: 3, Frequency: 2422MHz



Site no. : A/C Chamber Data no. : 3
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 26°C/61% Wenbin_yang
EUT : CD-920
Power Rating : DC5V
Test Mode : TX2422

	Freq.	Ant. Factor	Cable Loss	Reading	Emission Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.700	28.47	6.34	27.70	62.51	74.00	11.49	Peak
2	2390.000	28.47	6.34	27.16	61.98	74.00	12.02	Peak
3	2410.700	28.51	6.36	64.84	99.71	74.00	-25.71	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. : 4
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 26°C/61% Wenbin_yang
EUT : CD-920
Power Rating : DC5V
Test Mode : TX2422

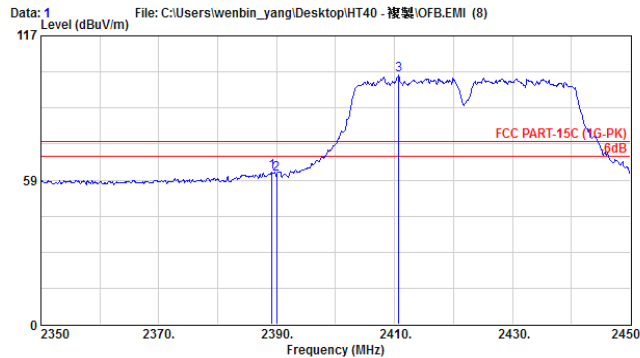
	Freq.	Ant. Factor	Cable Loss	Reading	Emission Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.200	28.47	6.34	16.02	50.83	54.00	3.17	Average
2	2390.000	28.47	6.34	16.45	51.26	54.00	2.74	Average
3	2415.200	28.51	6.36	54.41	89.29	54.00	-35.29	Average

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 : Jul. 05, 2013 Temperature: 26

EUT: Electronic Dictionary Humidity: 61 %

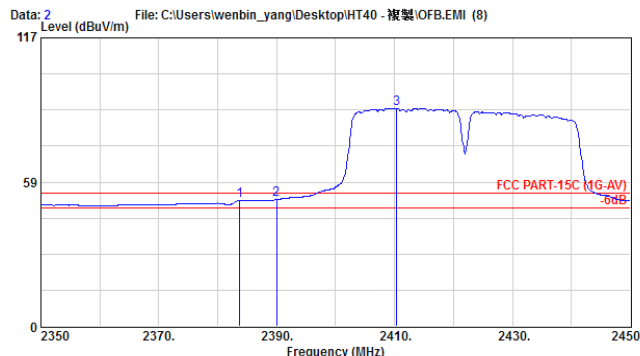
Test Mode: 802.11n-HT40 , Transmit, Channel: 3, Frequency: 2422MHz



Site no. : A/C Chamber Data no. : 1
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 26°C/61% Wenbin_yang
EUT : CD-920
Power Rating : DC5V
Test Mode : TX2422

	Freq.	Ant. Factor	Cable Loss	Reading	Emission Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.200	28.47	6.34	27.04	61.85	74.00	12.15	Peak
2	2390.000	28.47	6.34	25.87	60.68	74.00	13.32	Peak
3	2410.700	28.51	6.36	66.33	101.21	74.00	-27.21	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. : 2
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 26°C/61% Wenbin_yang
EUT : CD-920
Power Rating : DC5V
Test Mode : TX2422

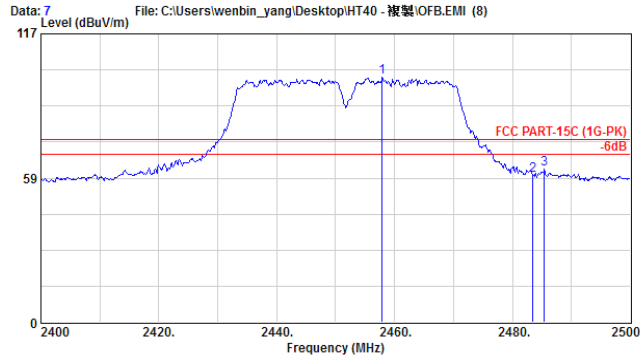
	Freq.	Ant. Factor	Cable Loss	Reading	Emission Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2383.700	28.43	6.33	16.18	50.94	54.00	3.06	Average
2	2390.000	28.47	6.34	16.64	51.45	54.00	2.55	Average
3	2410.400	28.51	6.36	53.40	88.27	54.00	-34.27	Average

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 : Jul. 05, 2013 Temperature: 26

EUT: Electronic Dictionary Humidity: 61%

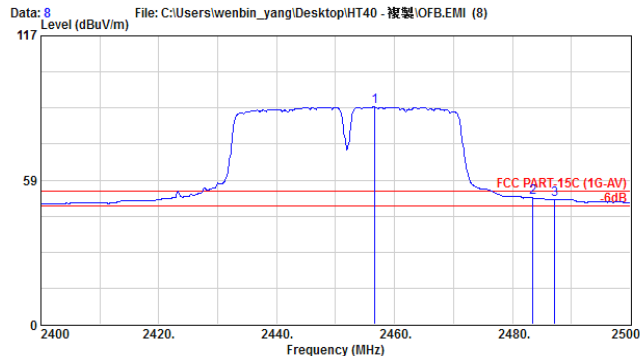
Test Mode: 802.11n-HT40 , Transmit, Channel: 9, Frequency: 2452MHz



Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 26°C/61% Wenbin_yang
EUT : CD-920
Power Rating : DC5V
Test Mode : TX2452

	Freq.	Ant. Factor	Cable Loss	Reading	Emission Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2457.900	28.62	6.42	64.25	99.30	74.00	-25.30	Peak
2	2483.500	28.66	6.45	24.57	59.69	74.00	14.31	Peak
3	2485.400	28.66	6.45	27.11	62.22	74.00	11.78	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. : 8
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 26°C/61% Wenbin_yang
EUT : CD-920
Power Rating : DC5V
Test Mode : TX2452

	Freq.	Ant. Factor	Cable Loss	Reading	Emission Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2456.700	28.62	6.42	53.06	88.10	54.00	-34.10	Average
2	2483.500	28.66	6.45	16.13	51.24	54.00	2.76	Average
3	2487.200	28.66	6.45	15.62	50.73	54.00	3.27	Average

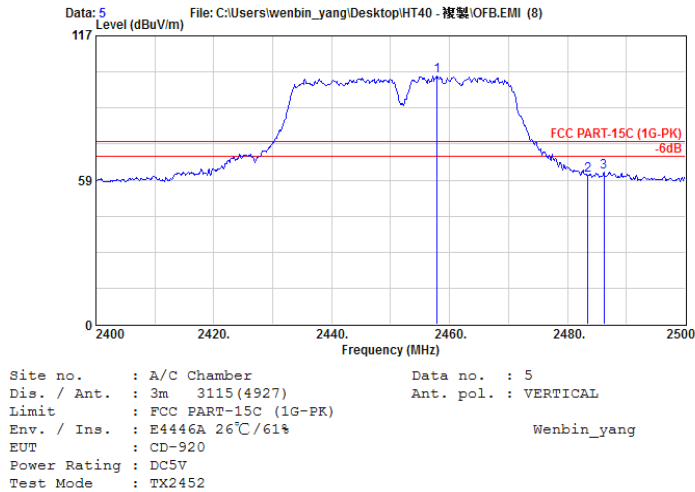
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Jul. 05, 2013 Temperature: 26

EUT: Electronic Dictionary Humidity: 61%

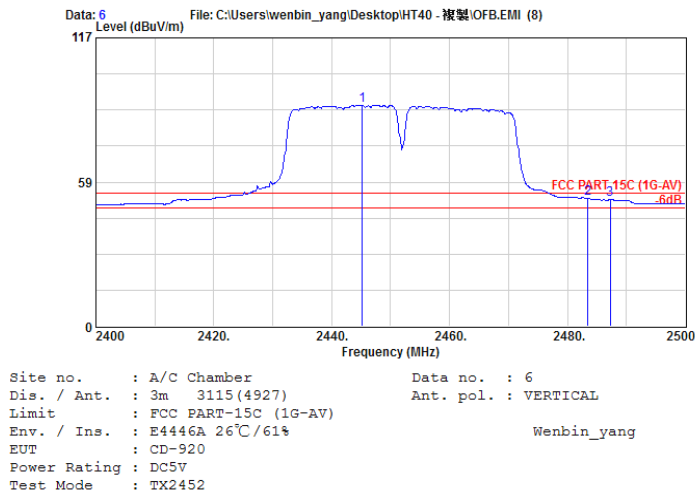
Test Mode: 802.11n-HT40 , Transmit, Channel: 9, Frequency: 2452MHz

10



	Freq.	Ant. Factor	Cable Loss	Reading	Emission Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2457.900	28.62	6.42	65.70	100.75	74.00	-26.75	Peak
2	2483.500	28.66	6.45	25.29	60.41	74.00	13.59	Peak
3	2486.200	28.66	6.45	26.71	61.82	74.00	12.18	Peak

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



	Freq.	Ant. Factor	Cable Loss	Reading	Emission Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2445.200	28.59	6.40	54.64	89.63	54.00	-35.63	Average
2	2483.500	28.66	6.45	16.69	51.80	54.00	2.20	Average
3	2487.300	28.66	6.45	16.19	51.30	54.00	2.70	Average

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

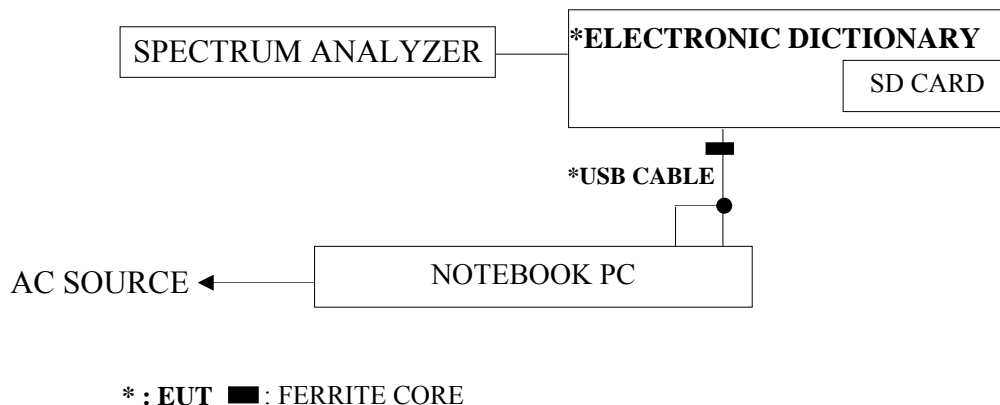
4. 6dB BANDWIDTH MEASUREMENT

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	N9030A-544	US51350140	Oct. 17, 12'	Oct. 16, 13'

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 “adb.exe” 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 1.5% EBW, $VBW \geq 3 \times RBW$. 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 D01 V03.

4.6. Test Results

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

4.6.1. WLAN Function

Test Date: Jun. 28, 2013 Temperature: 25

Humidity: 57%

Mode	Type of Network	Channel	Frequency	6dB Bandwidth
1	802.11b	CH 1	2412MHz	10.35 MHz
2		CH 6	2437MHz	10.10 MHz
3		CH 11	2462MHz	10.10 MHz
4	802.11g	CH 1	2412MHz	16.60 MHz
5		CH 6	2437MHz	16.60 MHz
6		CH 11	2462MHz	16.60 MHz
7	802.11n-HT20	CH 1	2412MHz	16.60 MHz
8		CH 6	2437MHz	16.60 MHz
9		CH 11	2462MHz	16.60 MHz
10	802.11n-HT40	CH 3	2422MHz	37.75 MHz
11		CH 6	2437MHz	37.75 MHz
12		CH 9	2452MHz	37.75 MHz

[Limit: least 500kHz]

802.11b, Frequency: 2412MHz



802.11b, Frequency: 2437MHz



Agilent Spectrum Analyzer - Swept SA

Marker 1 Δ 10.10000000 MHz

PRO: Fast IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 100/100

10 dB/div Ref 20.00 dBm

Δ Mkr1 10.10 MHz -1.036 dB

Center 2.46200 GHz #Res BW 100 kHz #VBW 300 kHz Span 50.00 MHz Sweep 4.80 ms (1001 pts)

10.45:23 PM 3/04/2013

TRACE 1 2 3 4 5 6

TYPE M W W W W W W W

DET P N N N N N

10 dB/div Log

Ref 20.00 dBm

1Δ2

-3.79 dBm

Center 2.46200 GHz

#Res BW 100 kHz

#VBW 300 kHz

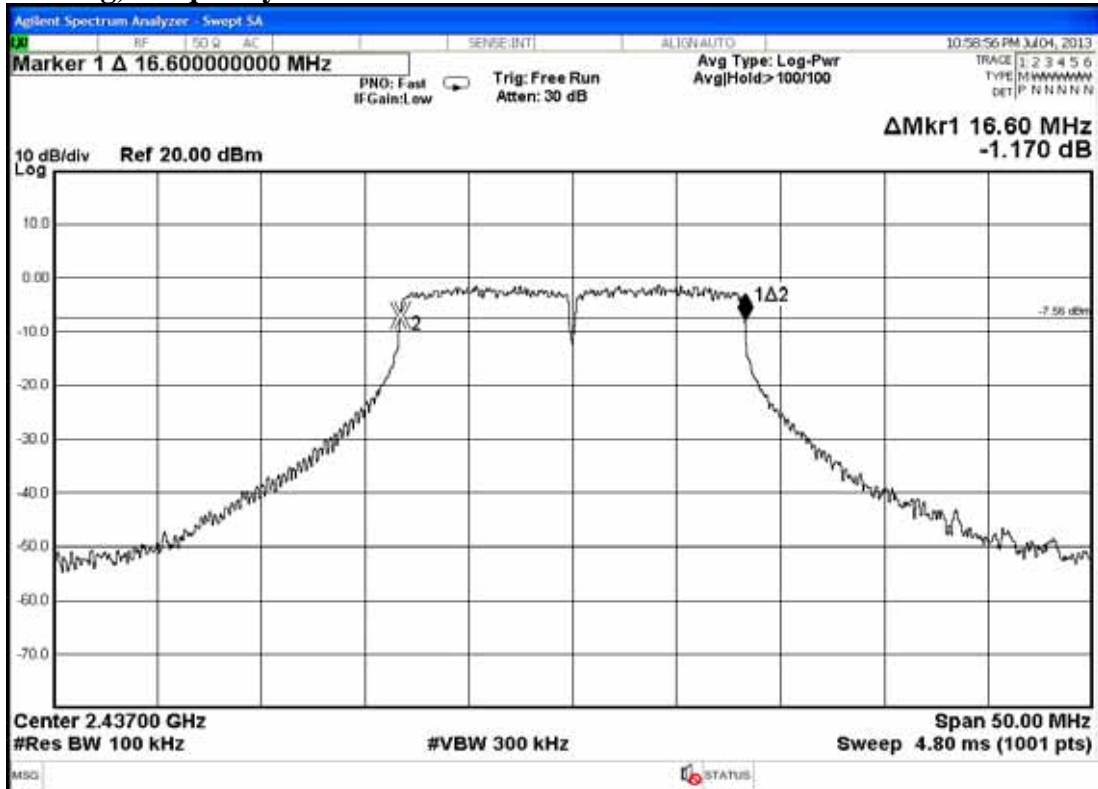
Span 50.00 MHz

Sweep 4.80 ms (1001 pts)

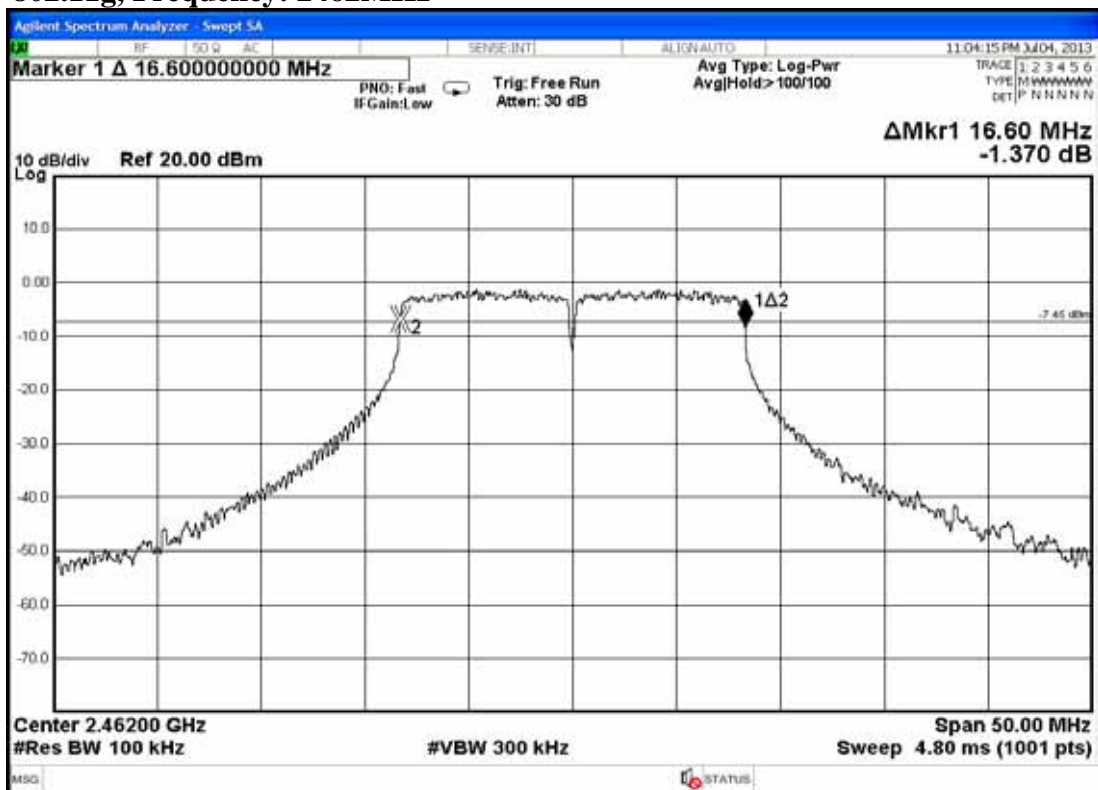
MSG STATUS

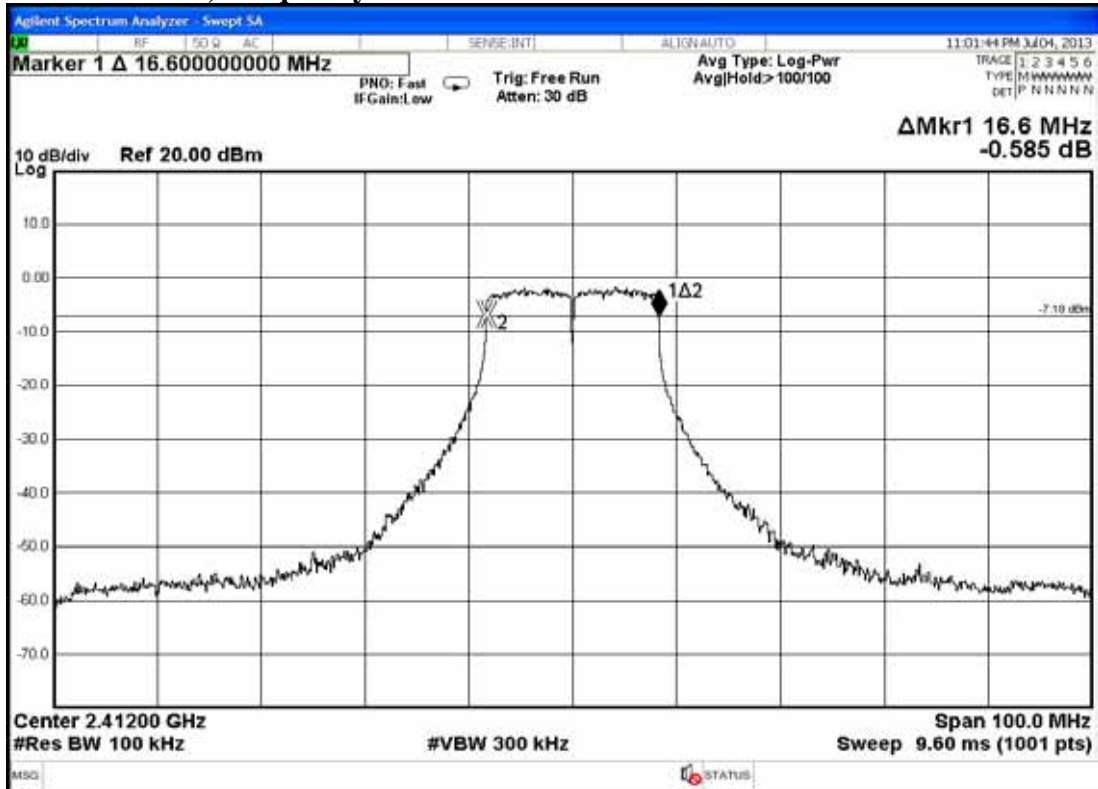
[illegible]

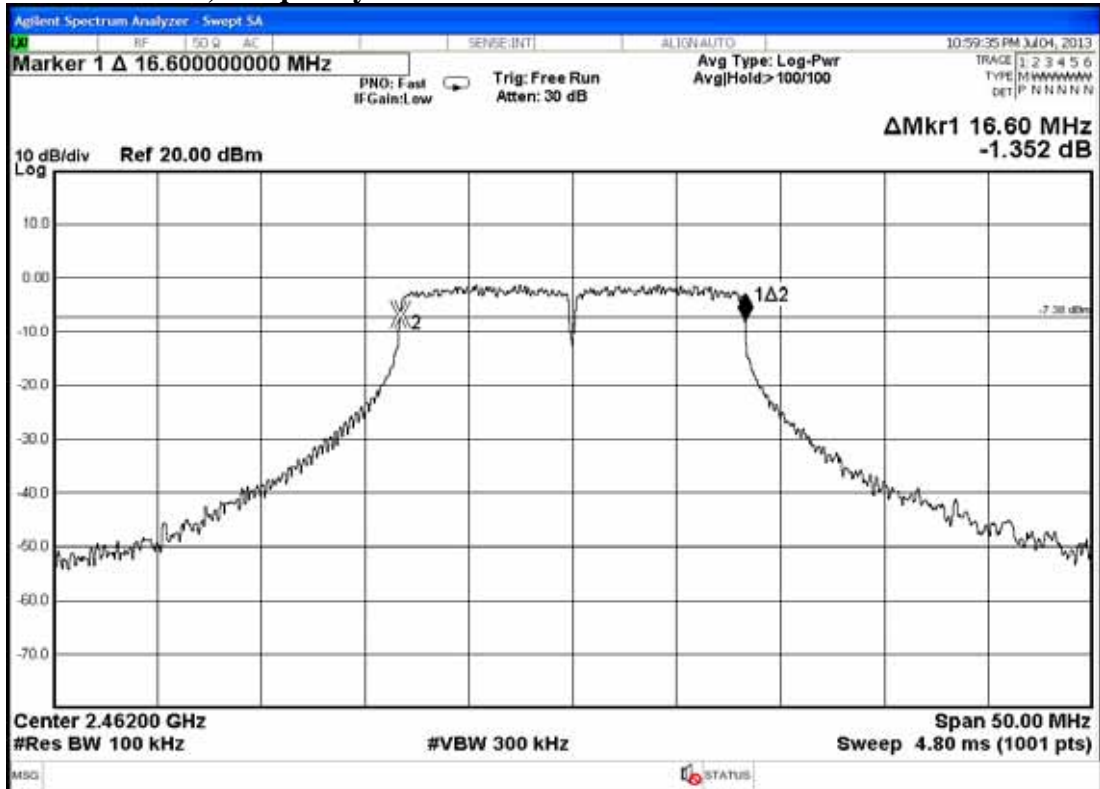
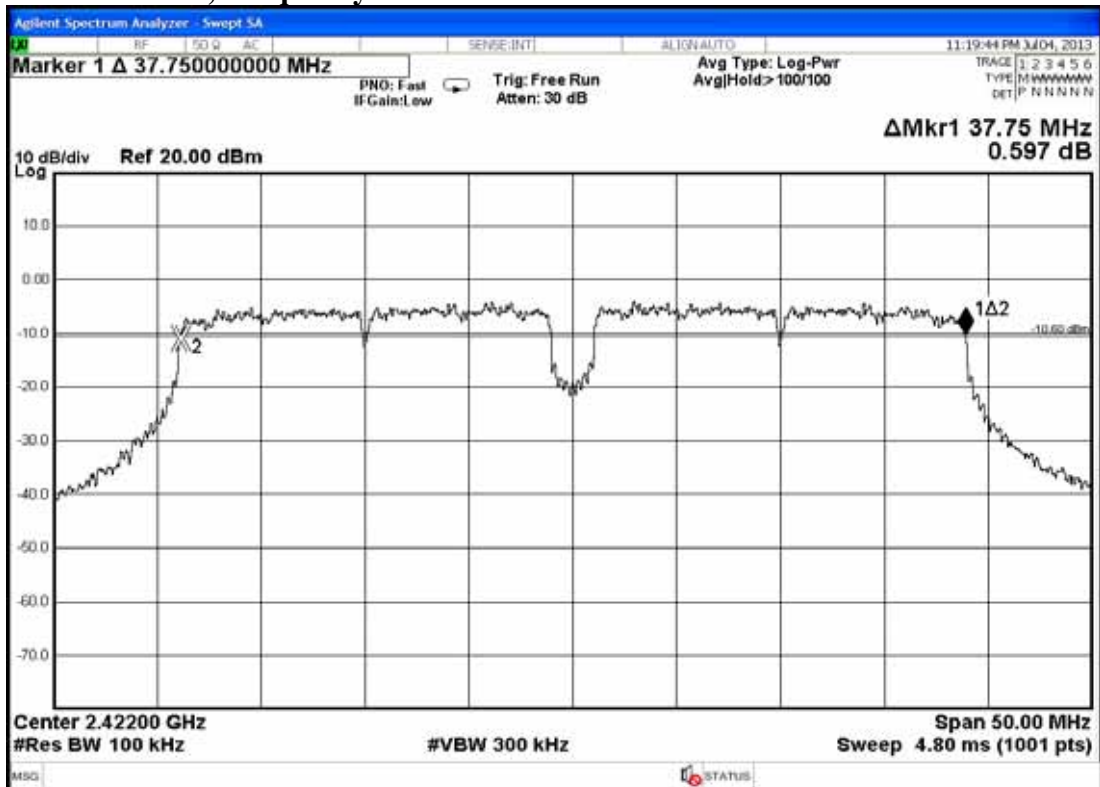
802.11g, Frequency: 2437MHz



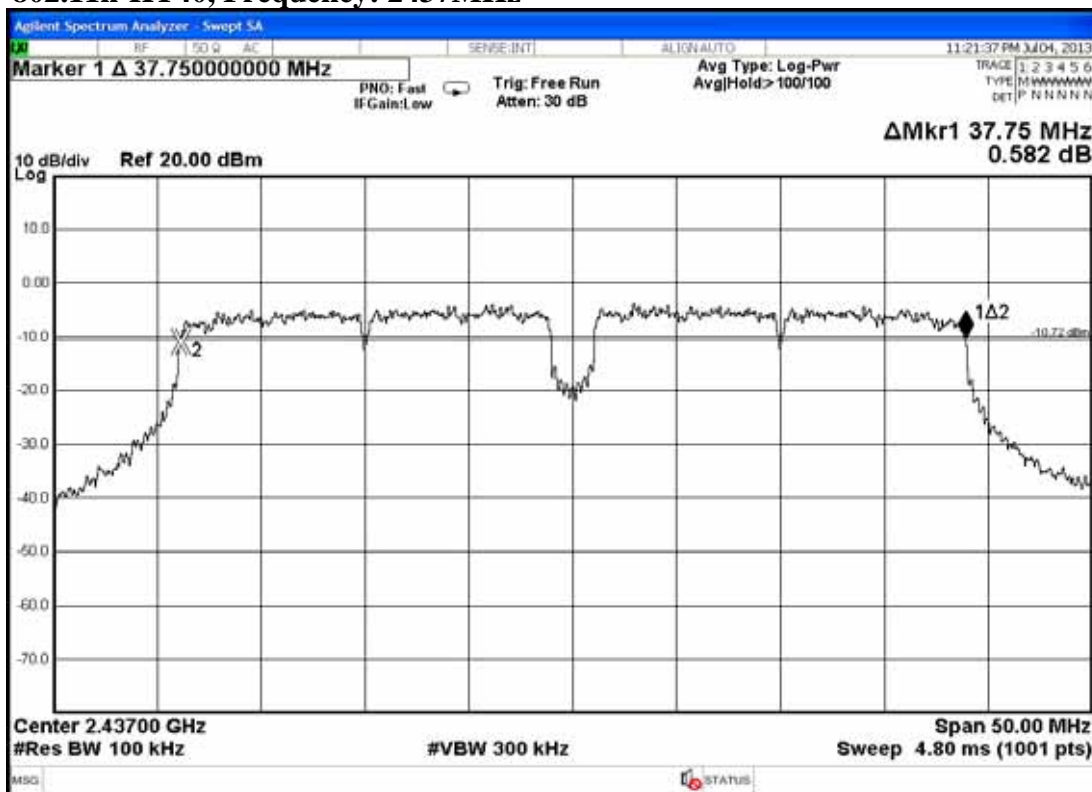
802.11g, Frequency: 2462MHz



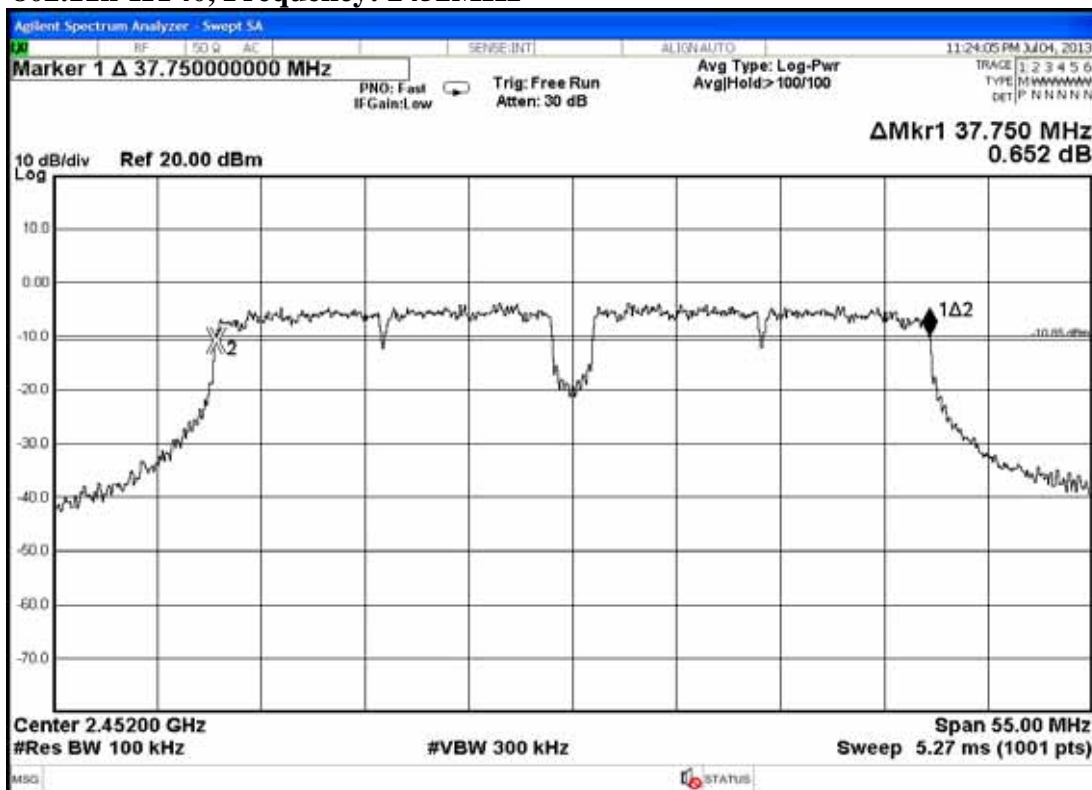
802.11n-HT20, Frequency: 2412MHz**802.11n-HT20, Frequency: 2437MHz**

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

802.11n-HT40, Frequency: 2437MHz



802.11n-HT40, Frequency: 2452MHz



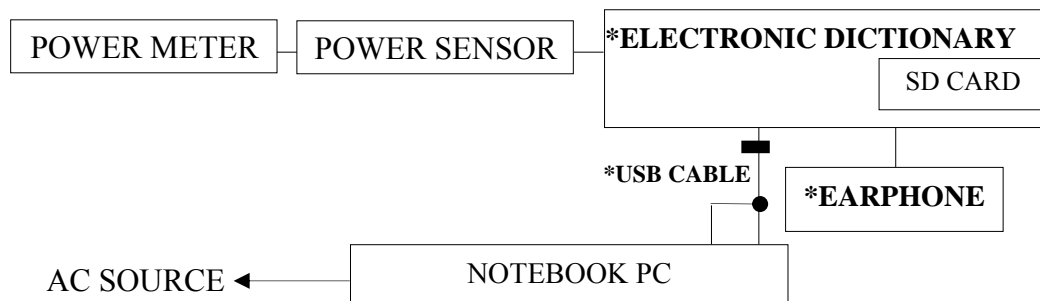
5. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

5.1. Test Equipment

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

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Power Meter	Anritsu	ML2495A	1145008	Oct. 30, 12'	Oct. 29, 13'
2.	Power Sensor	Anritsu	MA2411B	1126096	Oct. 30, 12'	Oct. 29, 13'

5.2. Block Diagram of Test Setup



* : EUT ■ : FERRITE CORE

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 “adb.exe” was used to enable the EUT to transmit data at different channel frequency individually.

5.5. Test Procedure

The transmitter output was connected to the power sensor and record the reading of power meter.

The measurement guideline was according to KDB 558074 D01 V03.

5.6. Test Results

PASSED. All the test results are listed below.

5.6.1. WLAN Function

Test Date: Jun. 28, 2013 Temperature: 25 Humidity: 57%

Test Mode	Channel	Frequency (MHz)	Output Power(dBm)	
			Peak	Average
802.11b	CH 1	2412	14.51	12.20
	CH 6	2437	14.64	12.52
	CH 11	2462	14.51	12.55
802.11g	CH 1	2412	21.42	12.07
	CH 6	2437	21.69	12.48
	CH 11	2462	21.78	12.49
802.11n-HT20	CH 1	2412	20.96	12.01
	CH 6	2437	21.24	12.44
	CH 11	2462	21.33	12.42
802.11n-HT40	CH 3	2422	20.88	12.02
	CH 6	2437	21.04	12.47
	CH 9	2452	21.38	12.50

[Limit: 1Watt. (30dBm)]

6. EMISSION LIMITATIONS MEASUREMENT

Pursuant to KDB 558074 D01 V03 that emission levels below limits specified in 15.209 would not be required.

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	N9030A-544	US51350140	Oct. 17, 12'	Oct. 16, 13'

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 reference level as measured in section 8.6.

7.4. Operating Condition of EUT

The test program “adb.exe” 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=100 kHz and VBW to 300kHz with suitable frequency span including 100kHz bandwidth from band edge.

The measurement guideline was according to KDB 558074 D01 V03.

7.6. Test Results

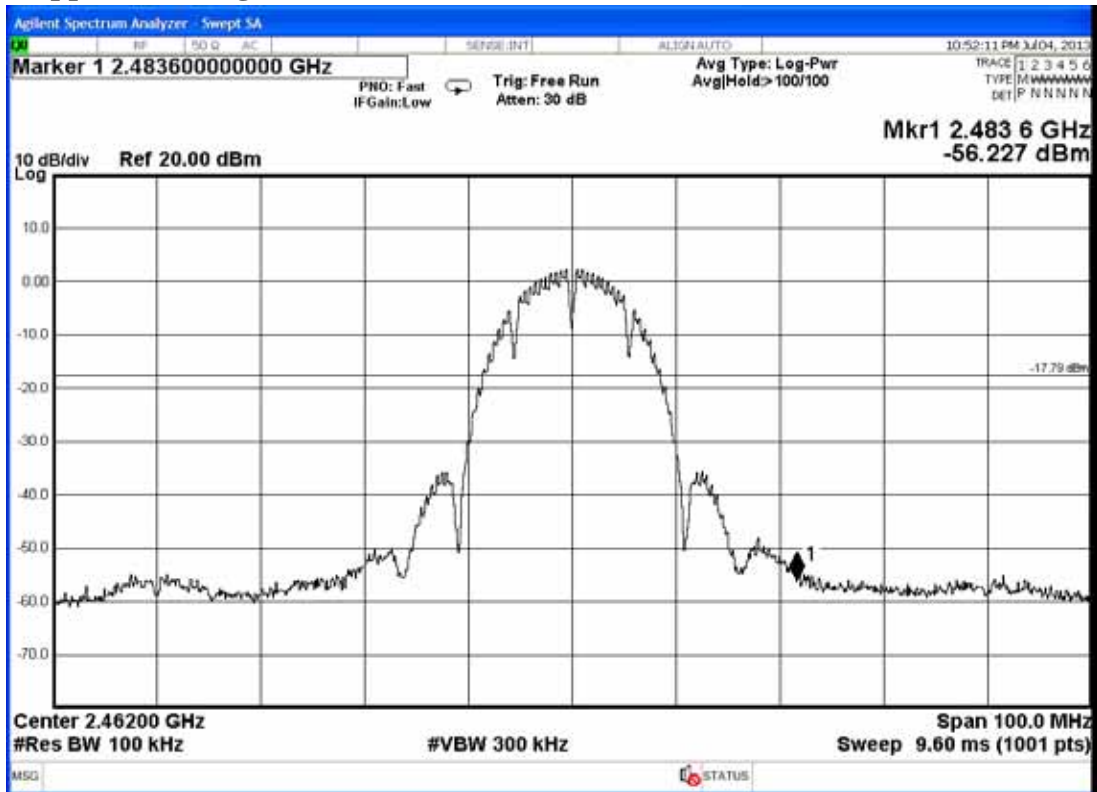
PASSED. All the test results are attached in next pages.

7.6.1. WLAN Function

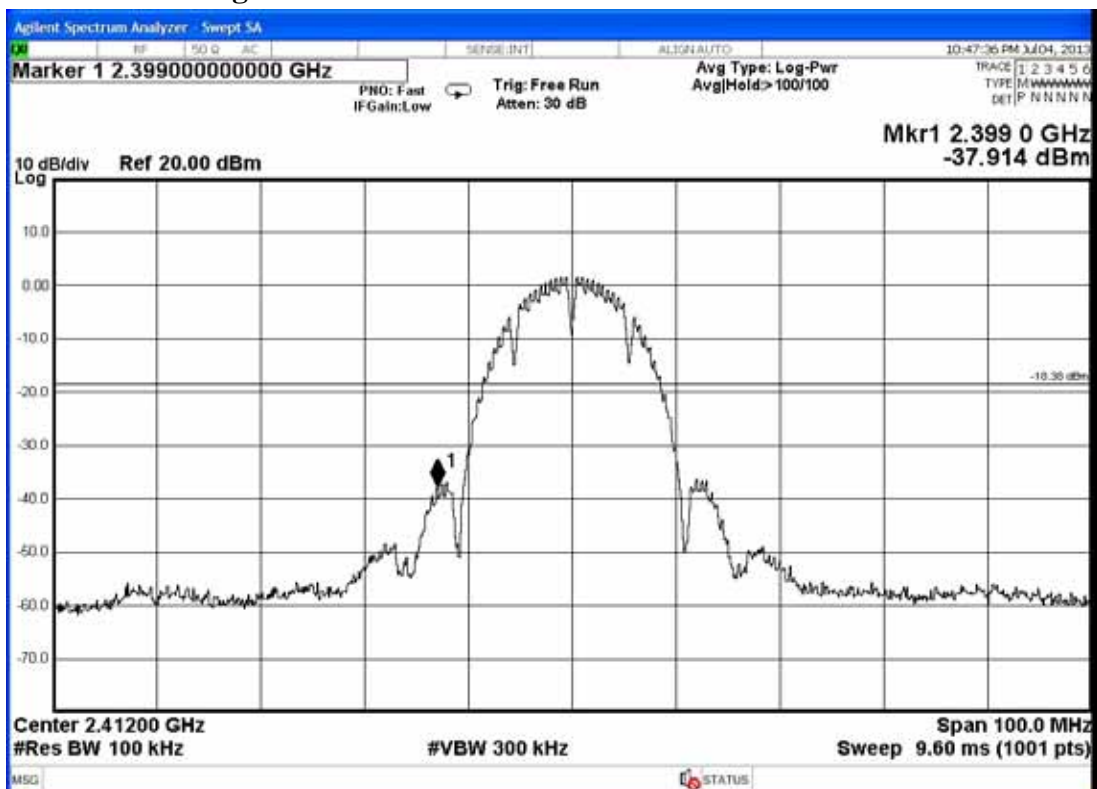
Test Date: Jun. 28, 2013 Temperature: 25 Humidity: 57%

802.11b

Upper Band edge



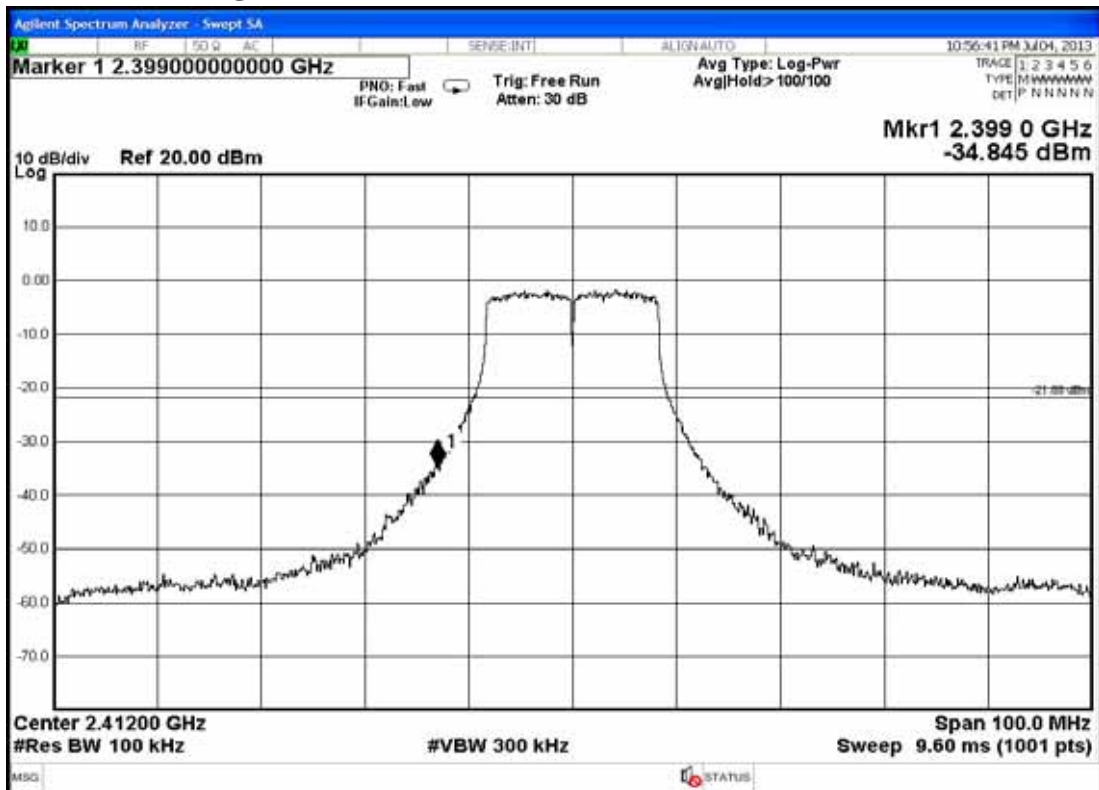
Below Band edge



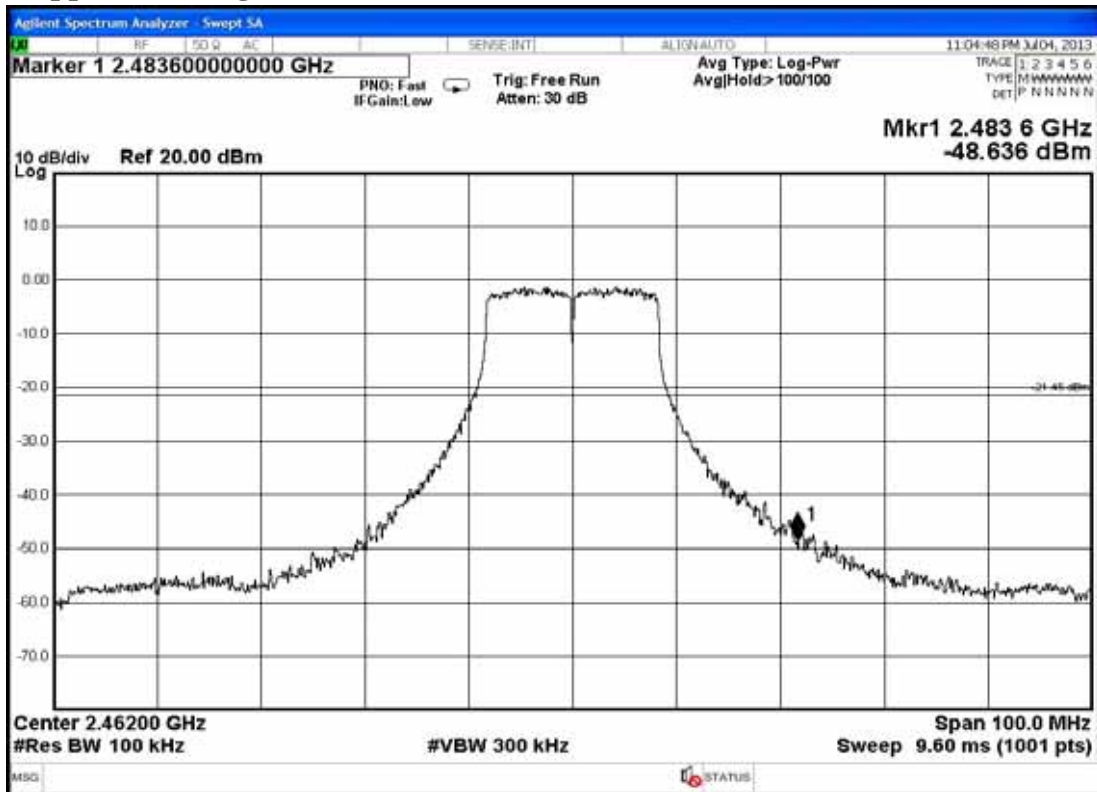
802.11g Upper Band edge



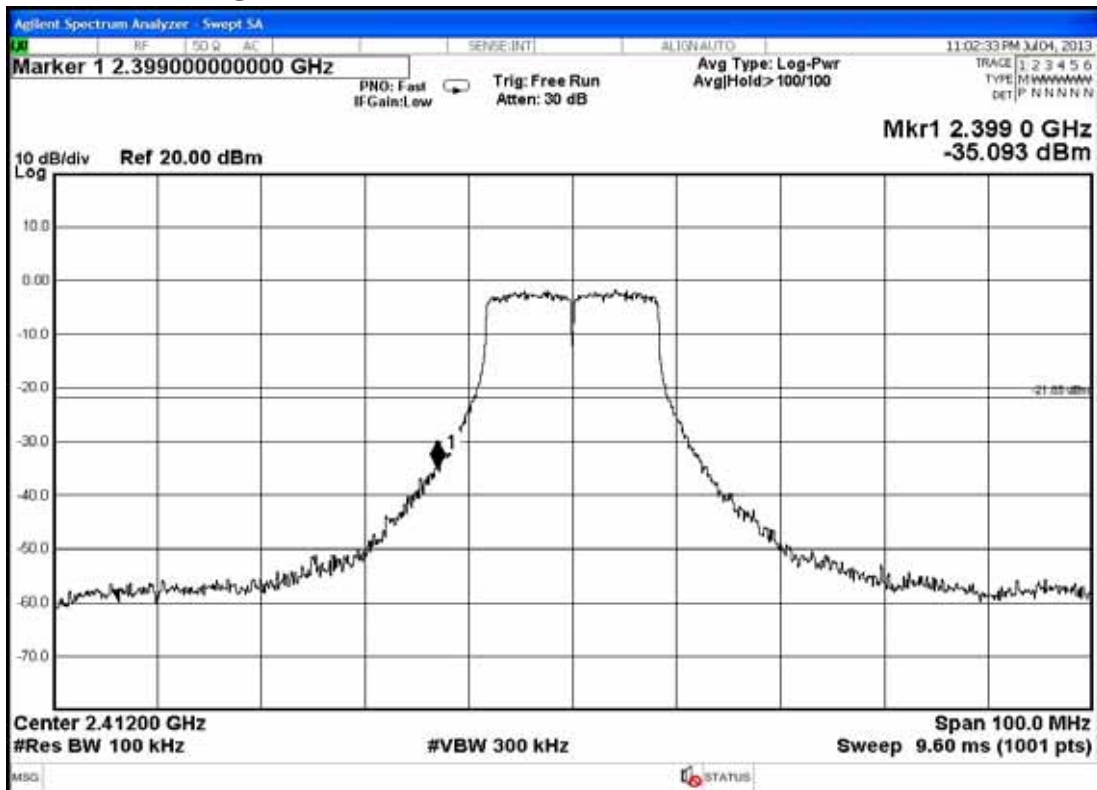
Below Band edge



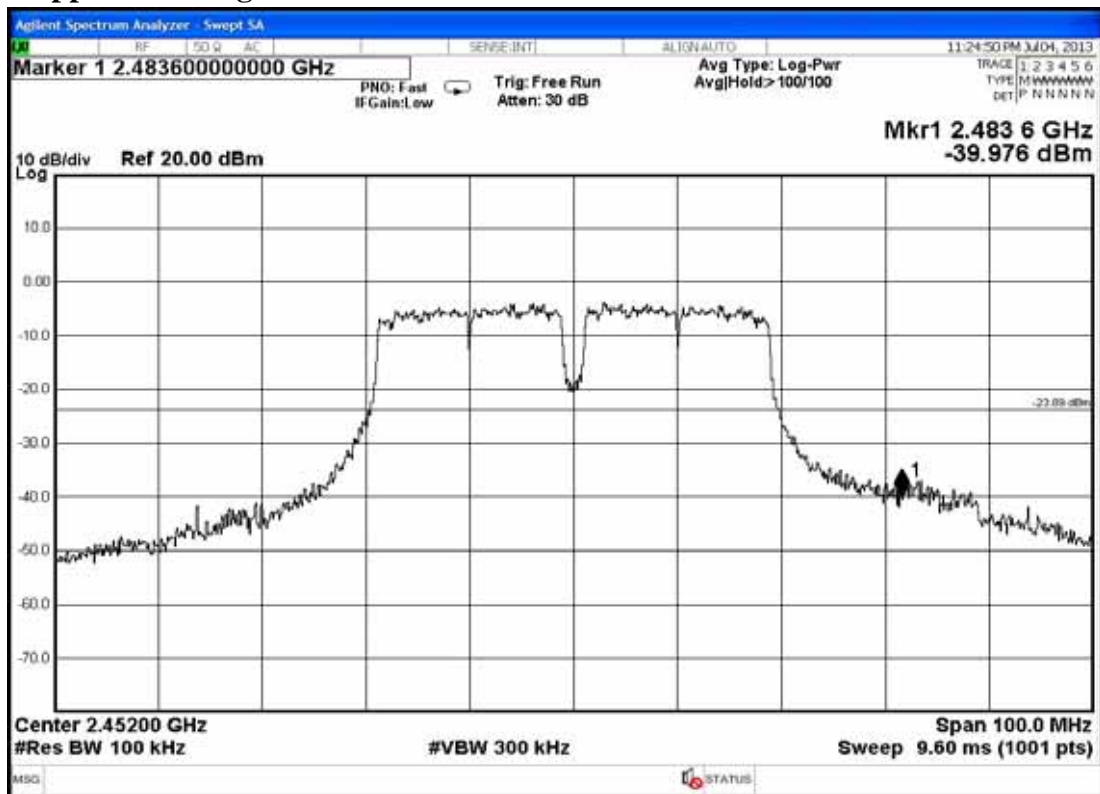
802.11n-HT20 Upper Band edge



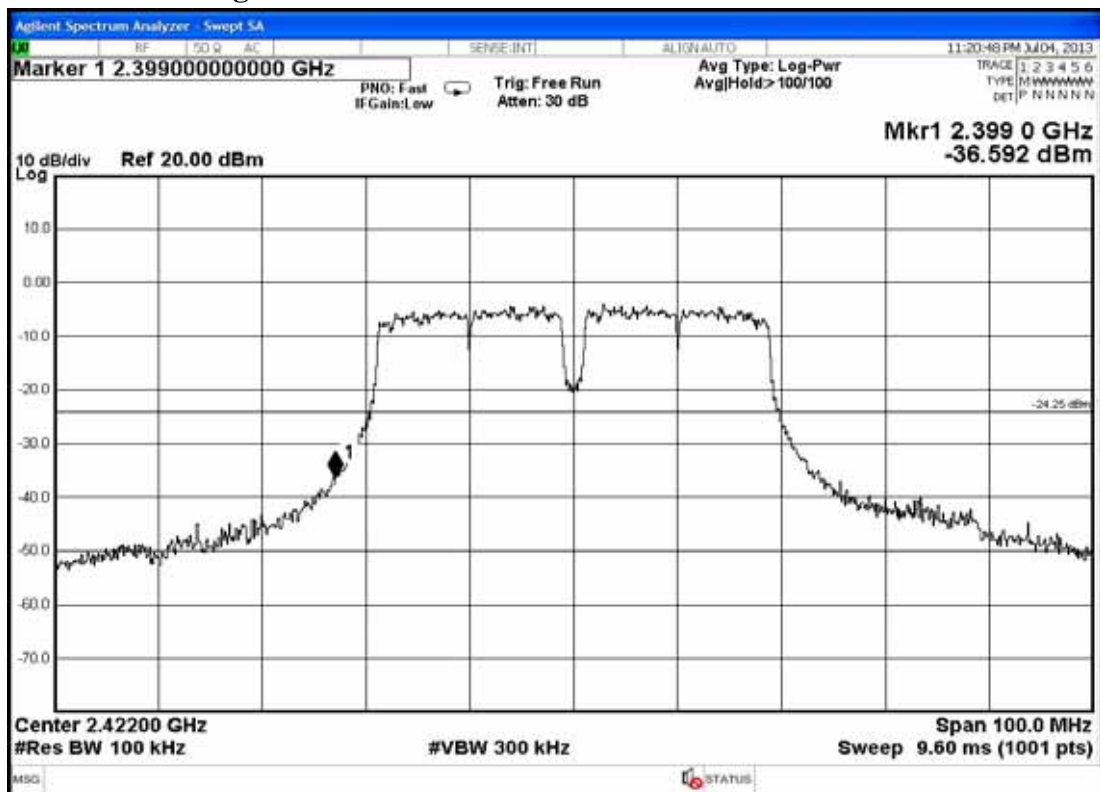
Below Band edge



DTS 802.11n-HT40 Upper Band edge



Below Band edge



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	N9030A-544	US51350140	Oct. 17, 12'	Oct. 16, 13'

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 “adb.exe” 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 100kHz RBW and ≥ 300 kHz VBW, set sweep time = Auto.

The measurement guideline was according to KDB 558074 D01 V03.

8.6. Test Results

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

8.6.1. WLAN Function

Test Date: Jun. 28, 2013 Temperature: 25

Humidity: 57%

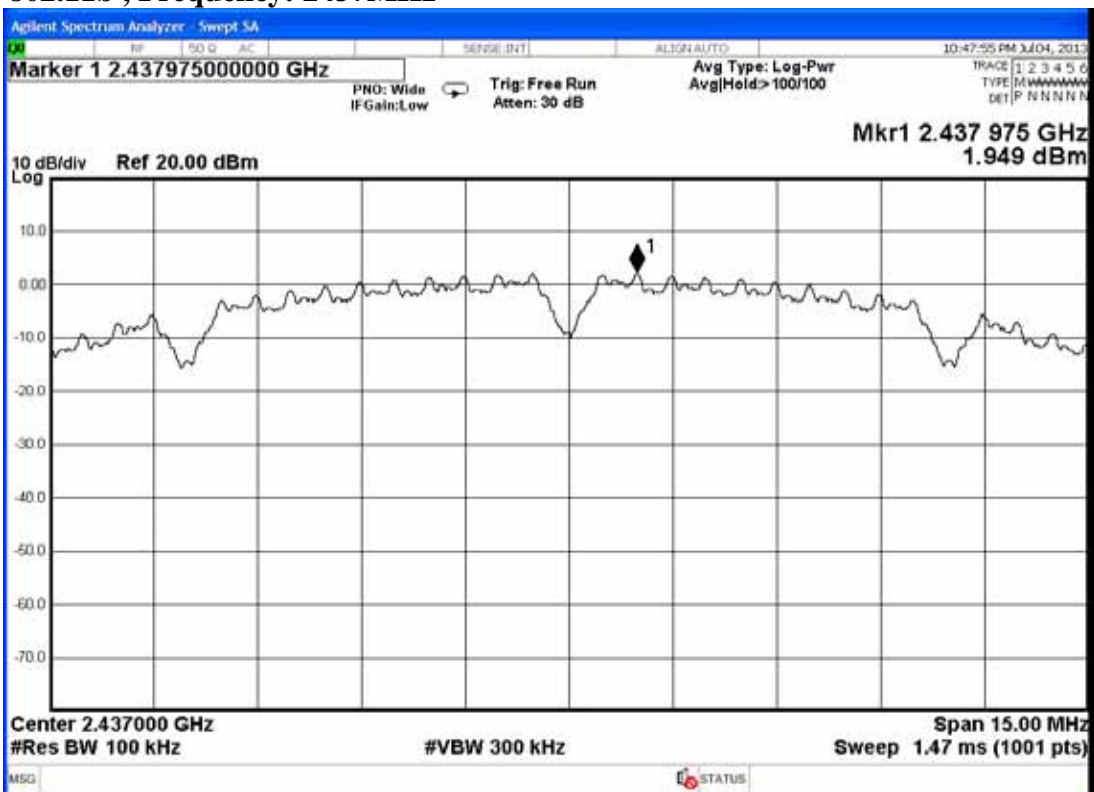
Mode	Type of Network	Channel	Frequency	Power Spectral Density
1	802.11b	CH 1	2412MHz	1.618 dBm
2		CH 6	2437MHz	1.949 dBm
3		CH 11	2462MHz	2.203 dBm
4	802.11g	CH 1	2412MHz	-1.879 dBm
5		CH 6	2437MHz	-1.485 dBm
6		CH 11	2462MHz	-1.390 dBm
7	802.11n-HT20	CH 1	2412MHz	-1.851 dBm
8		CH 6	2437MHz	-1.551 dBm
9		CH 11	2462MHz	-1.445 dBm
10	802.11n-HT40	CH 3	2422MHz	-4.259 dBm
11		CH 6	2437MHz	-3.948 dBm
12		CH 9	2452MHz	-3.890 dBm

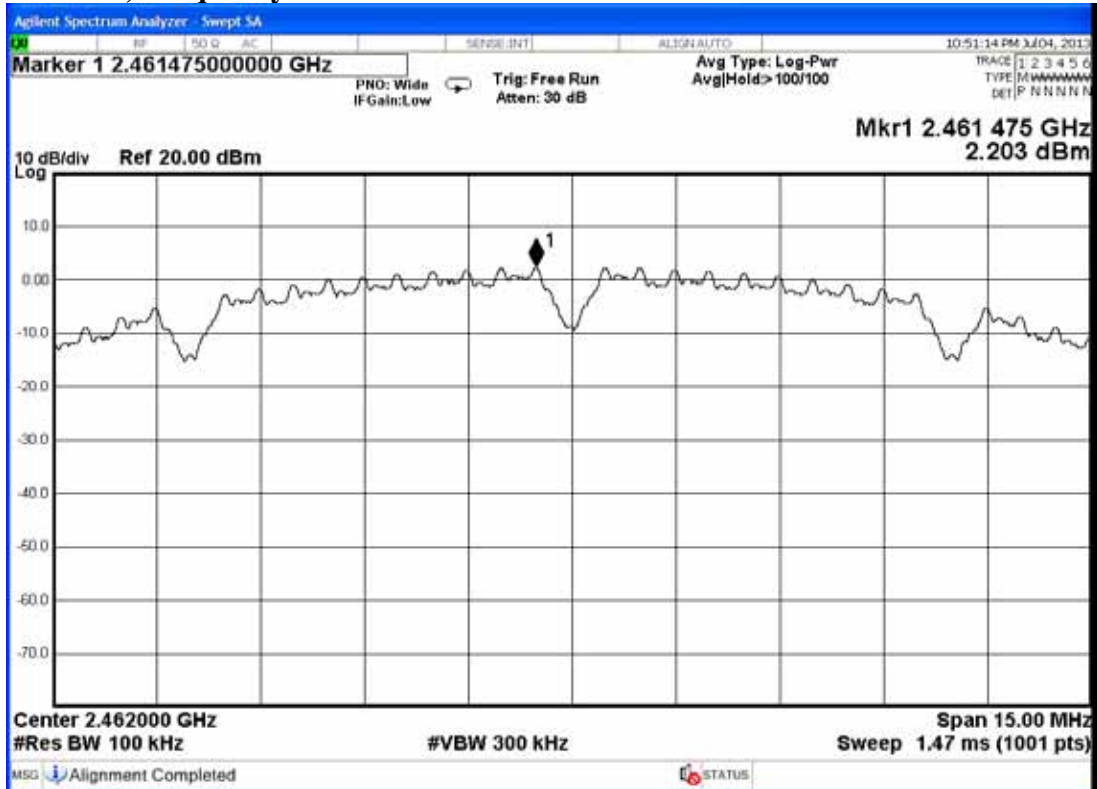
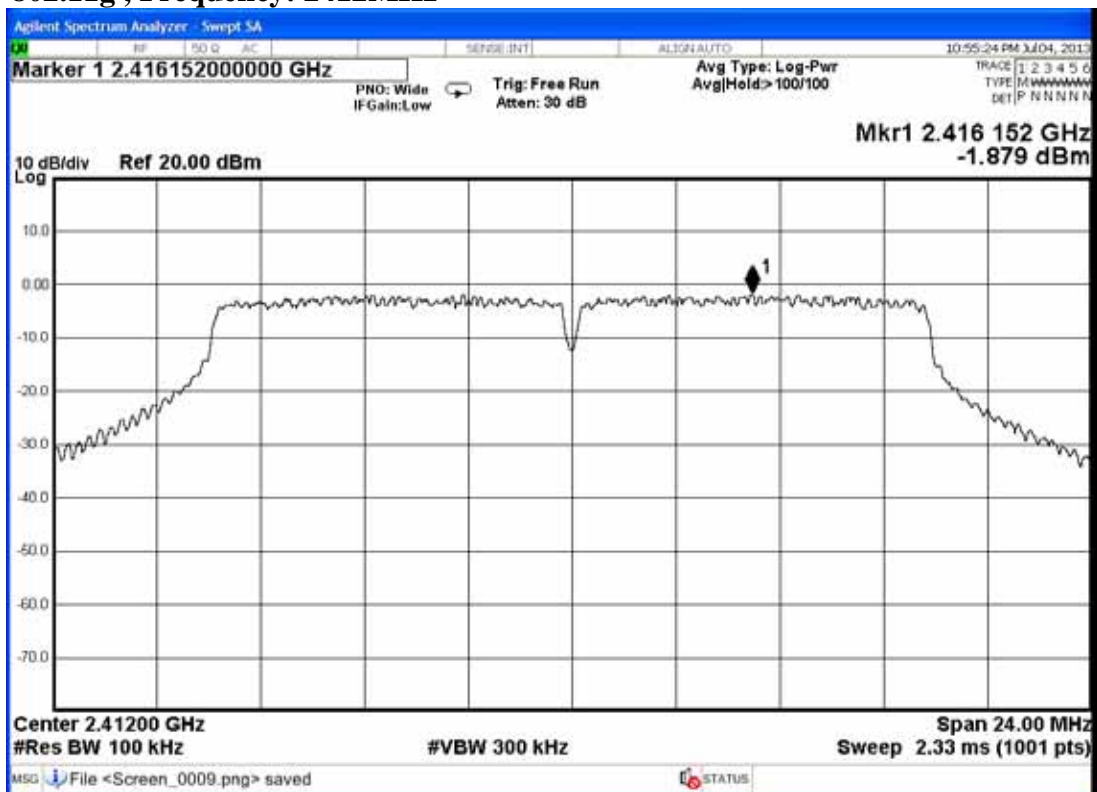
[Limit: 8dBm]

802.11b , Frequency: 2412MHz

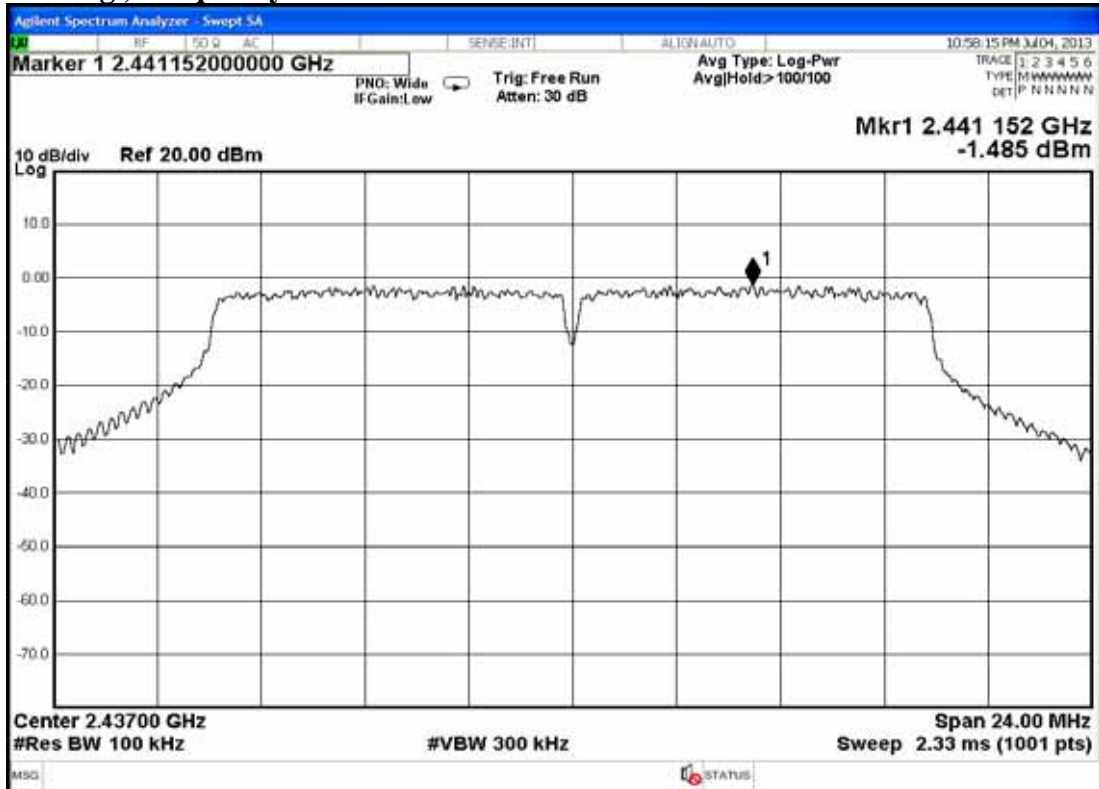


802.11b , Frequency: 2437MHz

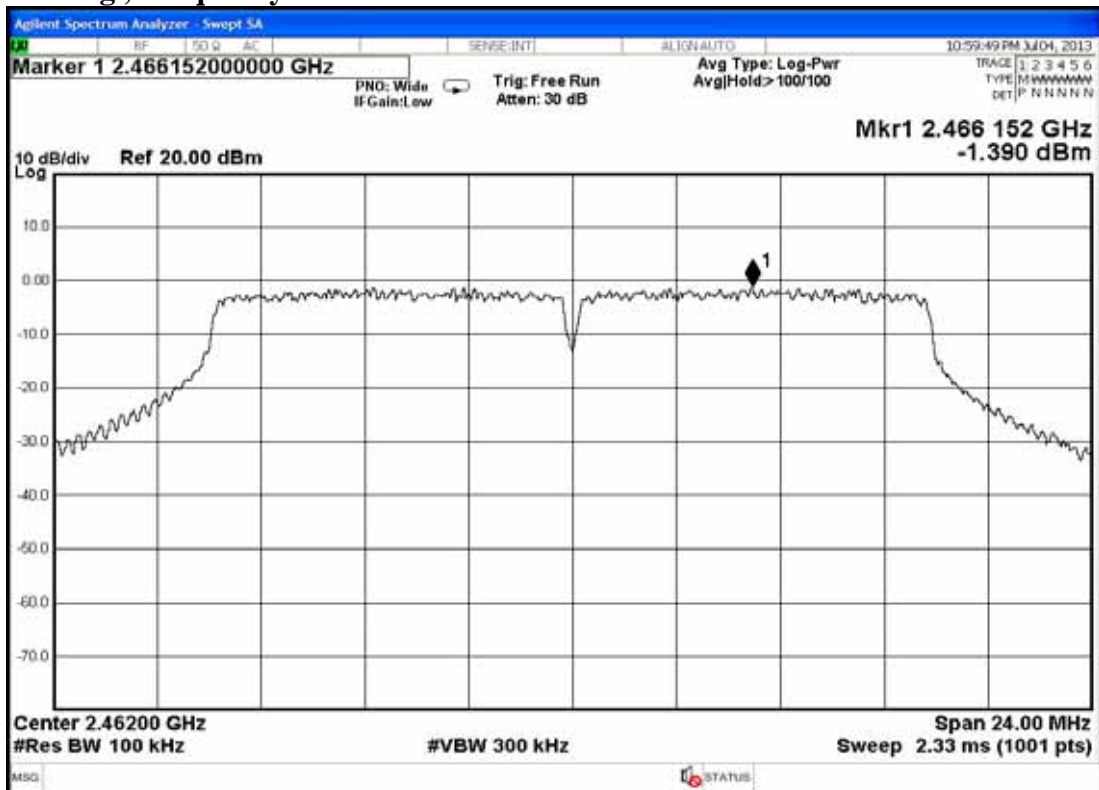


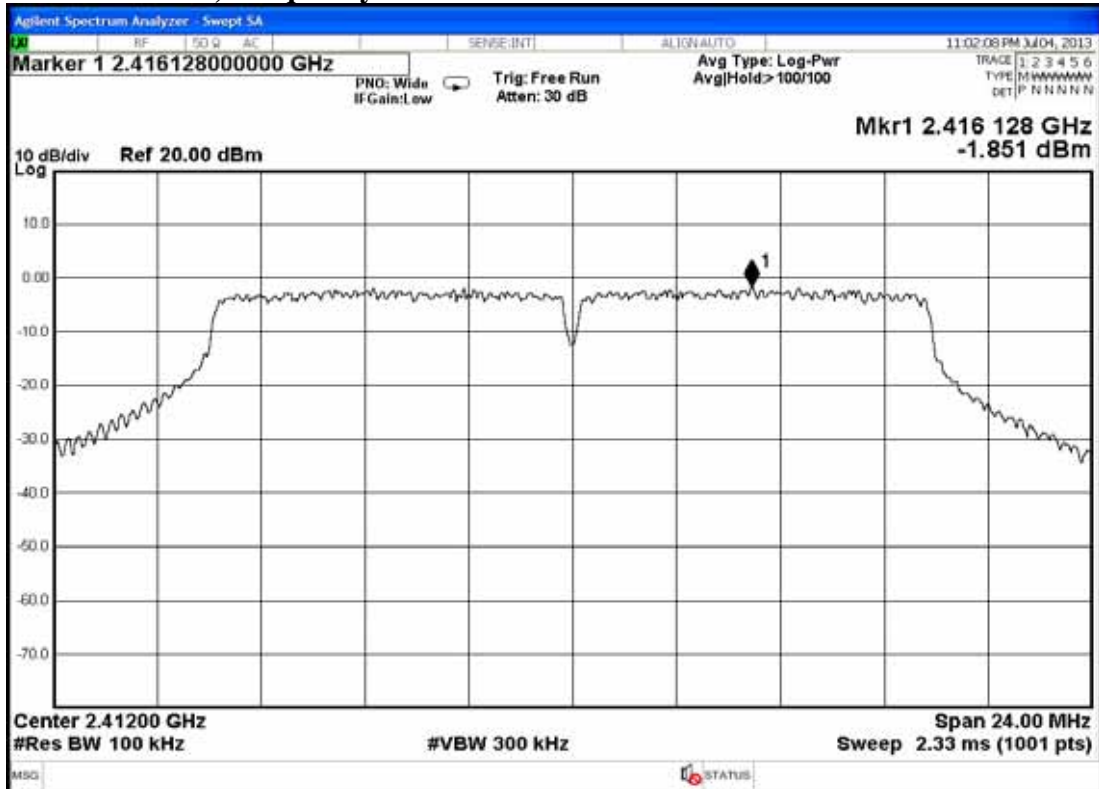
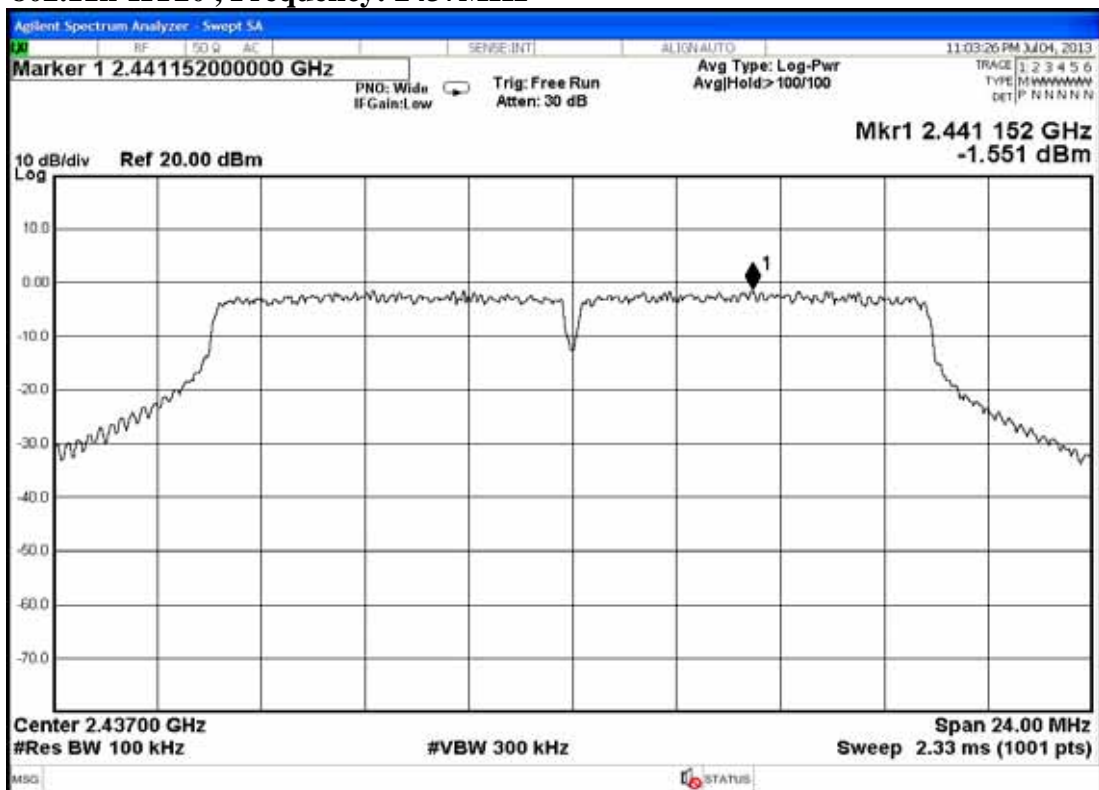
802.11b , Frequency: 2462MHz**802.11g , Frequency: 2412MHz**

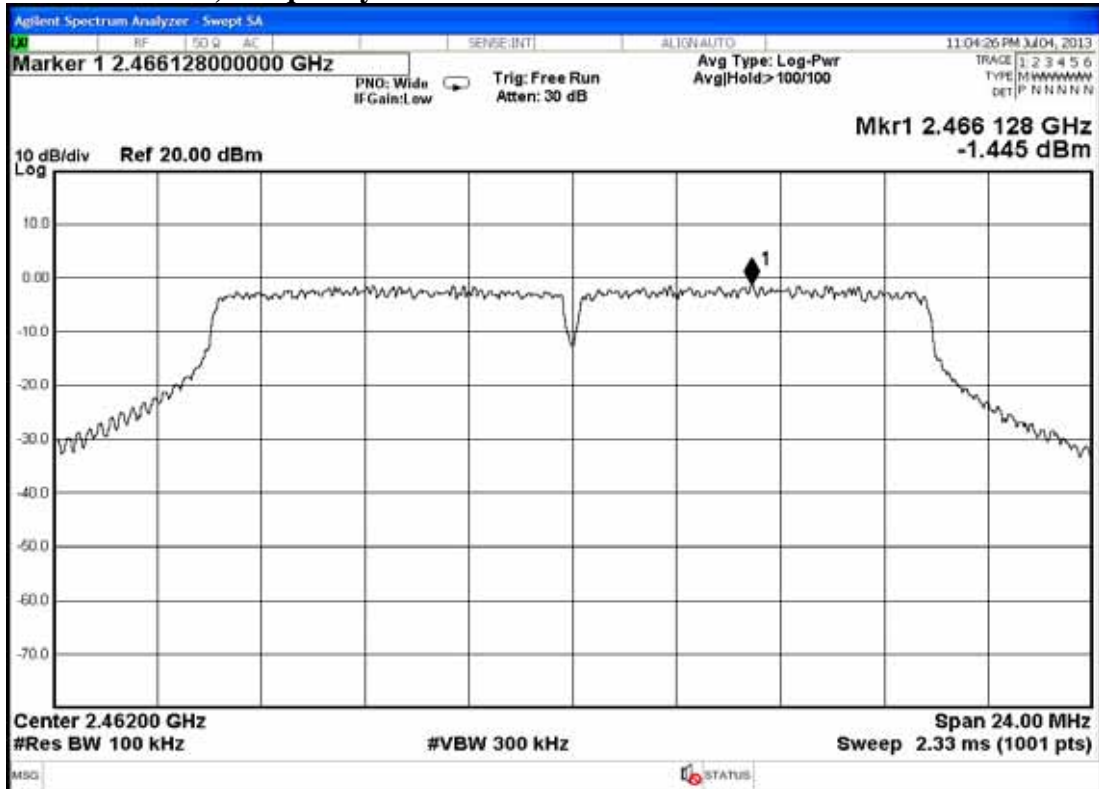
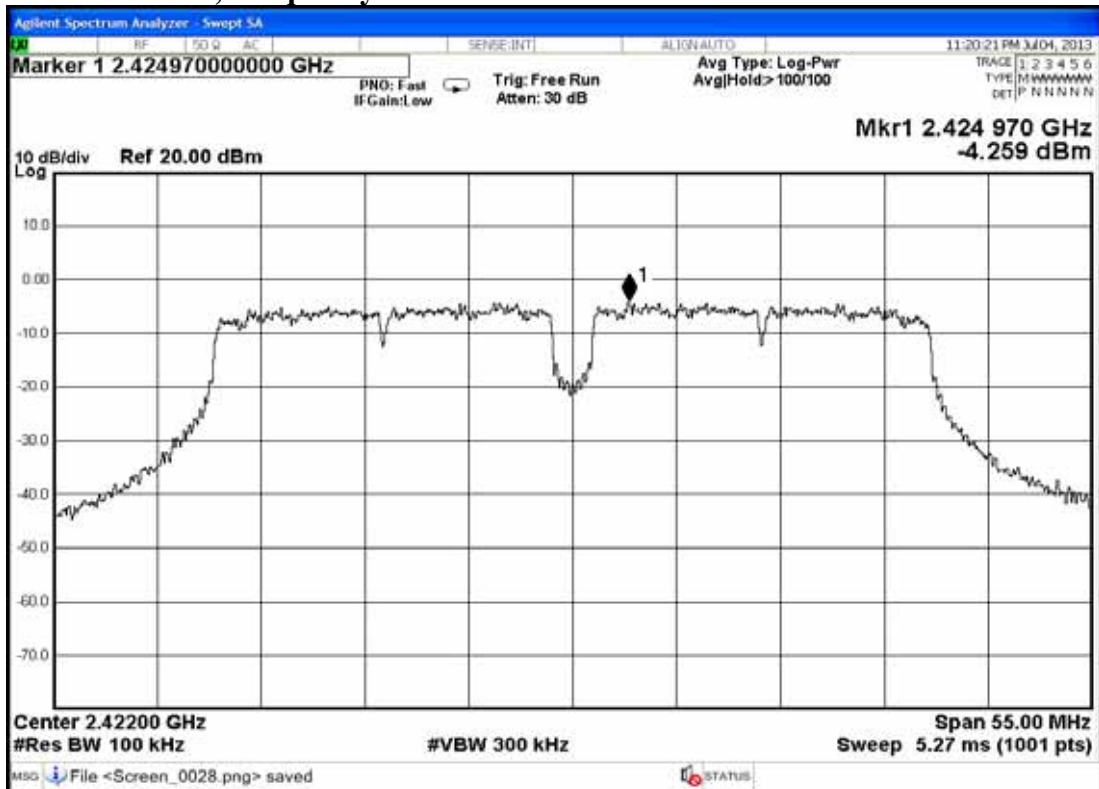
802.11g , Frequency: 2437MHz

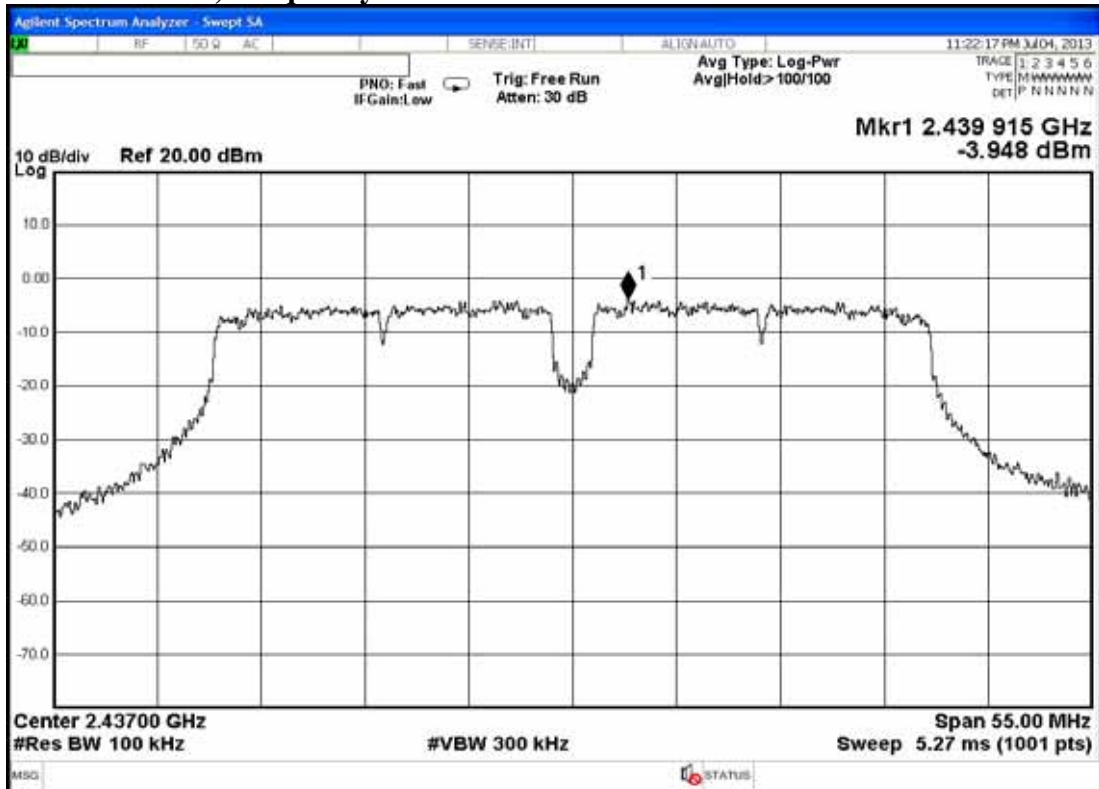
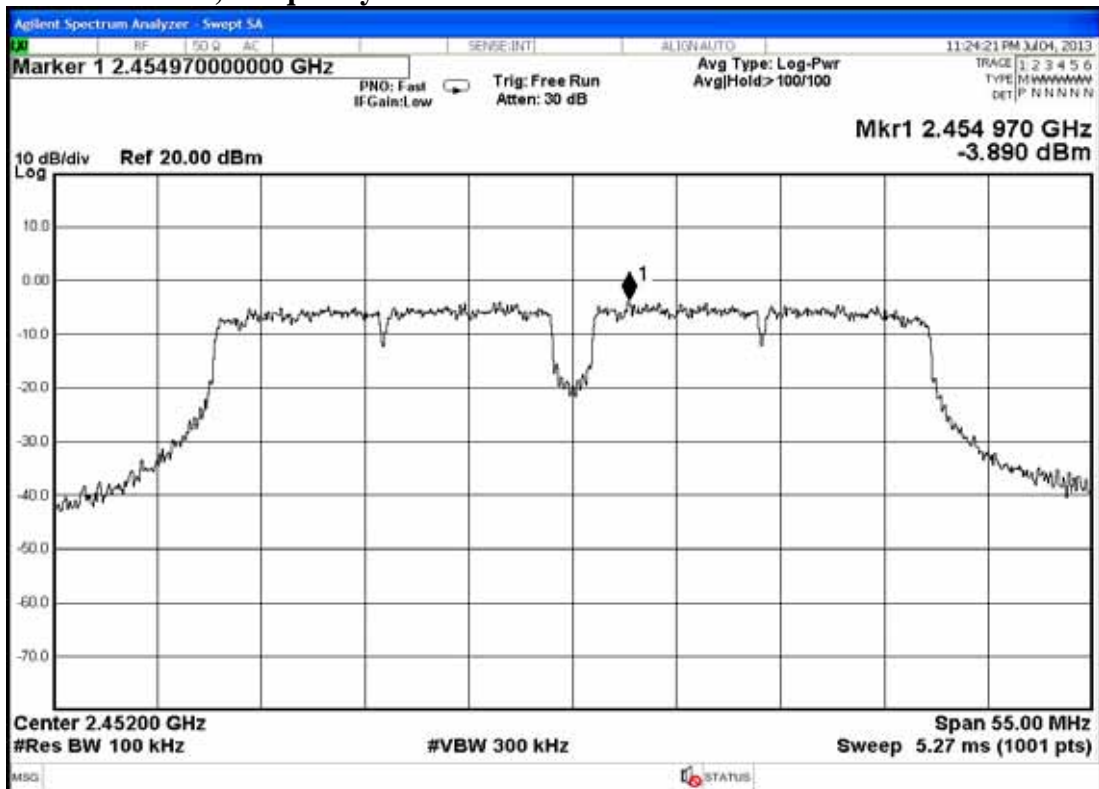


802.11g , Frequency: 2462MHz



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】

10.PHOTOGRAPHS

10.1.Photos of Conducted Disturbance Measurement

Link NB Mode



FRONT VIEW OF CONDUCTED MEASUREMENT



BACK VIEW OF CONDUCTED MEASUREMENT

Stand-Alone Mode



FRONT VIEW OF CONDUCTED MEASUREMENT



BACK VIEW OF CONDUCTED MEASUREMENT

10.2.Photos of Radiated Measurement at Semi-Anechoic Chamber

10.2.1.Frequency Below 1GHz

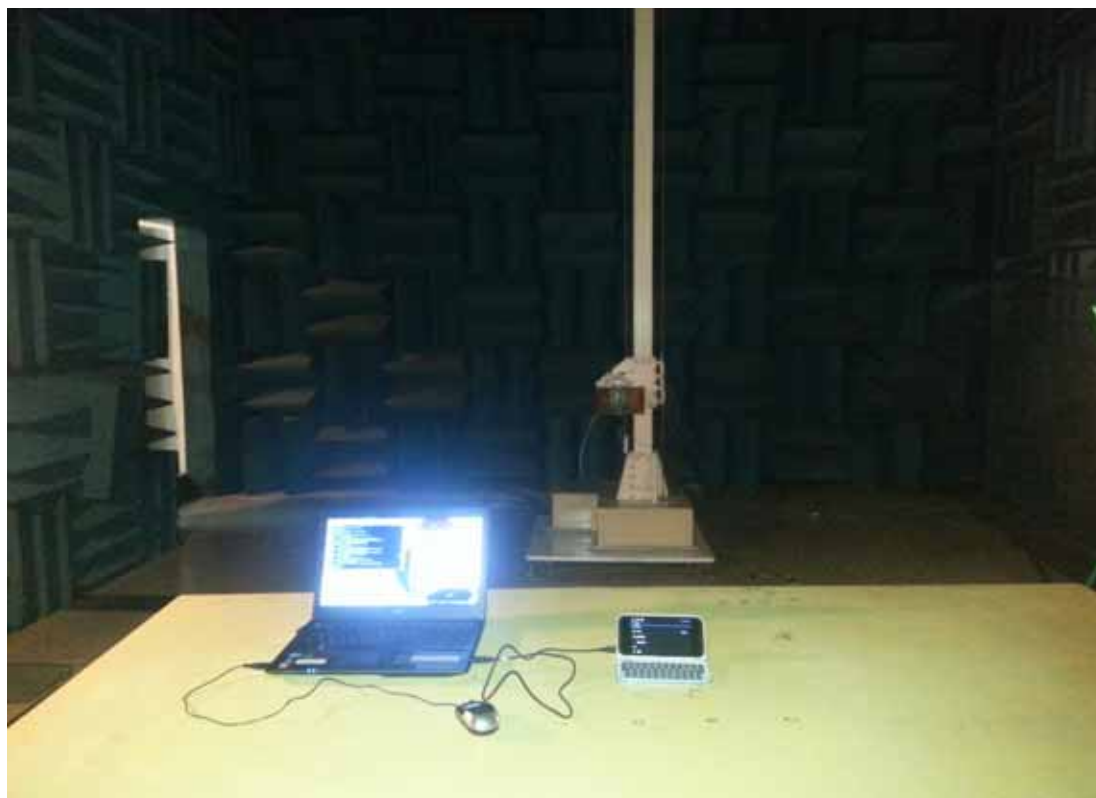
(TX Mode)



(Charge)



10.2.2.Frequency Above 1GHz



10.3.Photo of Section RF Conducted Measurement

