

FCC Test Report (Class II Permissive Change)

Product Name	802.11b/g/n RTL8192EE Combo module
Model No	RTL8192EEBT
FCC ID.	TX2RTL8192EEBT

Applicant	Realtek Semiconductor Corp.
Address	No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu 300, Taiwan

Date of Receipt	Sep. 26, 2015
Issue Date	Nov. 04, 2015
Report No.	15A0003R-RFUSP07V00-A
Report Version	V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

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Test Report

Issue Date: Nov. 04, 2015

Report No.: 15A0003R-RFUSP07V00-A



Product Name	802.11b/g/n RTL8192EE Combo module
Applicant	Realtek Semiconductor Corp.
Address	No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu 300, Taiwan
Manufacturer	Realtek Semiconductor Corp.
Model No.	RTL8192EEBT
EUT Rated Voltage	DC 3.3V (via Mini-PCI Express slot)
EUT Test Voltage	AC 120V/60Hz
Trade Name	REALTEK
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2013 ANSI C63.4: 2014, ANSI C63.10: 2013 KDB 558074 D01 DTS Meas Guidance v03r03
Test Result	Complied

Documented By : Jinn Chen
(Senior Adm. Specialist / Jinn Chen)

Tested By : Jack Hsu
(Engineer / Jack Hsu)

Approved By : [Signature]
(Director / Vincent Lin)

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	802.11b/g/n RTL8192EE Combo module
Trade Name	REALTEK
Model No.	RTL8192EEBT
FCC ID.	TX2RTL8192EEBT
Frequency Range	802.11b/g/n-20MHz:2412-2462MHz,802.11n-40MHz:2422-2452MHz
Number of Channels	802.11b/g/n-20MHz: 11, n-40MHz: 7
Data Speed	802.11b: 1-11Mbps, 802.11a/g: 6-54Mbps, 802.11n: up to 300Mbps
Type of Modulation	802.11b:DSSS, DBPSK, DQPSK, CCK 802.11g/n: OFDM, BPSK, QPSK, 16QAM, 64QAM
Antenna Type	PIFA Antenna
Antenna Gain	Refer to the table "Antenna List"
Channel Control	Auto
Power Adapter	MFR: ASUS, M/N: ADP-65AW Input: AC 100-240V ~ 50/60Hz, 1.5A Output: DC 19V, 3.42A Cable out: Non-Shielded, 1.8m, with one ferrite core bonded.
Test Platform.	Brand Name: ASUS, M/N: TP301U, Q303U

Antenna List

Manufacturer	Part No.	Peak Gain
LUXSHARE	LA05RF867-1H (MAIN) LA05RF868 -1H (AUX)	-3.1dBi For 2.4GHz
Hong Lin	260-26076 (Main) 260-26077 (Aux)	-3.1dBi For 2.4GHz

Note: 1. The antenna of EUT is conform to FCC 15.203

2. Only the higher gain antenna was tested and recorded in this report.

802.11b/g/n-20MHz Center Frequency of Each Channel:

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

802.11n-40MHz (2.4G Band) Center Working Frequency of Each Channel:

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

Note:

1. This device is an 802.11b/g/n RTL8192EE Combo module with a built-in WLAN transceiver.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report.
4. At result of pretests, module supports dual-channel transmission, only the worst case is shown in the report.
5. These tests are conducted on a sample for the purpose of demonstrating compliance of 802.11b/g/n transmitter with Part 15 Subpart C Paragraph 15.247 of spread spectrum devices.
6. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.
7. This is to request a Class II permissive change for FCC ID: TX2RTL8192EEBT, originally granted on 5/19/2015.

The major change filed under this application is:

Change #1: Additional Chassis added, ASUSTeK, model TP301U, Q303U
notebook/tablet.

All models are listed as below

Brand	Model	Difference
ASUS	TP301U (Main test model)	All models are electrically identical, different model names are for marketing purpose.
	Q303U	

#2: Reduce the Output Power through firmware (only reduce Wi-Fi Power, bluetooth power haven't changes)

#3: Addition two new antennas, the antenna type is the same, the antenna gain is lower than the original application.

Test Mode:	Mode 1 SISO B: Transmit (802.11b 1Mbps)
	Mode 2 CDD=A+B: Transmit (802.11g 6Mbps)
	Mode 3 MIMO: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)
	Mode 4 MIMO: Transmit - 802.11n-40BW_30Mbps(2.4G Band)

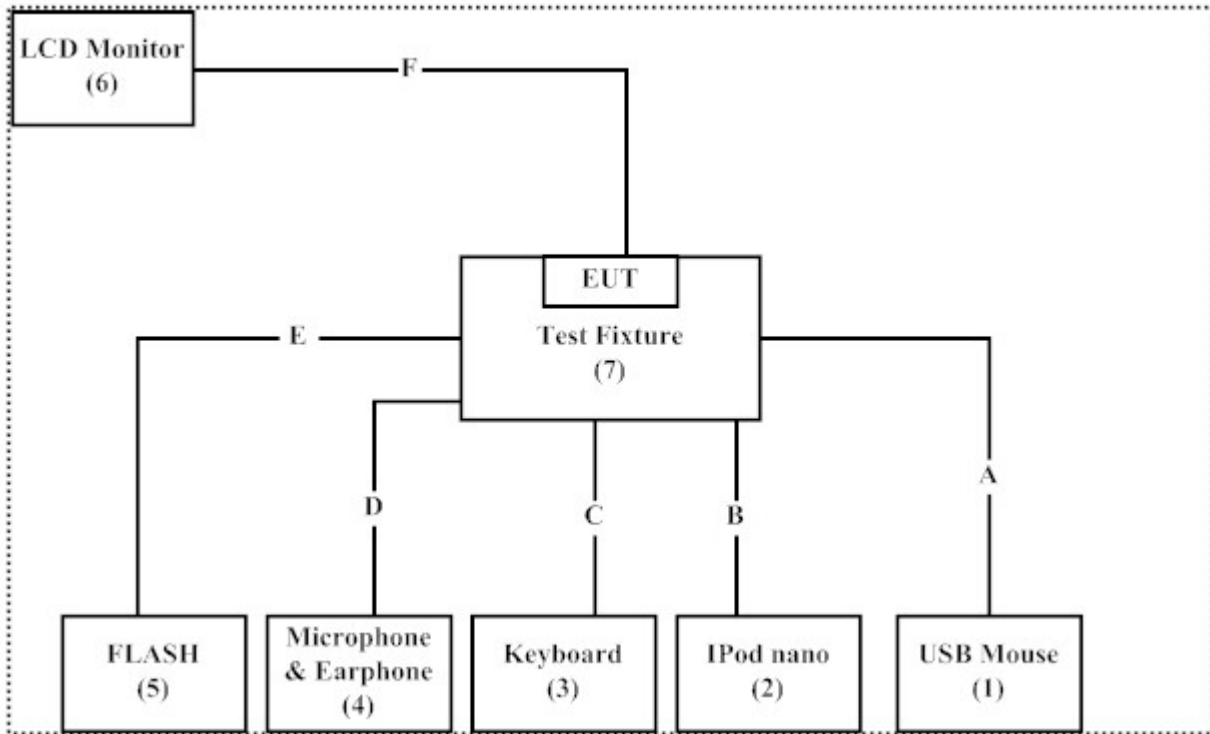
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord	
1	USB Mouse	Logitech	M-BE58	HCA30103100	N/A
2	iPod nano	Apple	A1199	YM706LSCVQ5	N/A
3	Keyboard	DELL	SK-8115	MY-0DJ325-71619-6 A3-1913	N/A
4	Microphone & Earphone	PCHOME	N/A	N/A	N/A
5	FLASH	Transcend	JetFlash110	155422-2931	N/A
6	LCD Monitor	DELL	ST2320Lf	CN-0M2nn6-72872-2 2I-CA1S	Non-Shielded, 1.8m
7	Test Fixture	ASUS	N/A	N/A	N/A

Signal Cable Type	Signal cable Description
A	USB Cable Shielded, 1.8 m
B	USB Cable Shielded, 1.2 m
C	USB Cable Shielded, 1.8 m, with one ferrite core bonded.
D	Microphone & Earphone Cable Non-Shielded, 2 m
E	USB Cable Shielded, 2 m
F	HDMI Cable Non-Shielded, 1.8 m

1.4. Configuration of Tested System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown on 1.4
- (2) Execute “REALTEK 0.0026.16.20140701” program on the EUT.
- (3) Configure the test mode, the test channel, and the data rate.
- (4) Start the continuous transmission.
- (5) Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from

Quietek Corporation's Web Site: <http://www.quietek.com/chinese/about/certificates.aspx?bval=5>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site:

<http://www.quietek.com/>

Site Description: Federal Communications Commission
 FCC Engineering Laboratory
 7435 Oakland Mills Road
 Columbia, MD 21046
 Registration Number: 92195

Site Name: Quietek Corporation
 Site Address: No.5-22, Ruishukeng,
 Linkou Dist. New Taipei City 24451,
 Taiwan, R.O.C.
 TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
 E-Mail : service@quietek.com

FCC Accreditation Number: TW1014

2. Maximum Conducted Power

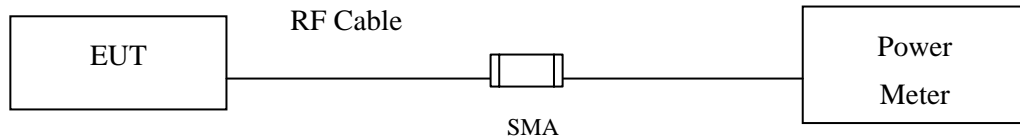
2.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Power Meter	Anritsu	ML2495A/6K00003357	May, 2015
X	Power Sensor	Anritsu	MA2411B/0738448	Jun, 2015
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

2.2. Test Setup



2.3. Limits

The maximum average power shall be less 1 Watt. (Section 15.247 (b)(3))

2.4. Test Procedure

The EUT was tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements. The maximum peak conducted output power using KDB 558074 D01 DTS Meas Guidance v03r02 section 9.1.2 PKPM1 Peak power meter method.

2.5. Uncertainty

± 1.27 dB

2.6. Test Result of Maximum Conducted Power

Product : 802.11b/g/n RTL8192EE Combo module
Test Item : Maximum Conducted Power
Test Site : No.3 OATS
Test Mode : Mode 1 SISO B: Transmit (802.11b 1Mbps)

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)				Required Limit	Result
		1	2	5.5	11		
		Measurement Level (dBm)					
01	2412	15.41	--	--	--	<30dBm	Pass
06	2437	15.44	15.12	14.76	14.45	<30dBm	Pass
11	2462	15.21	--	--	--	<30dBm	Pass

Note: Peak Power Output Value = Reading value on power meter + cable loss

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Maximum Conducted Power
 Test Site : No.3 OATS
 Test Mode : Mode 2 CDD=A+B: Transmit (802.11g 6Mbps)

CHAIN A

Channel No	Frequency (MHz)	Average Power								Required Limit	Result
		For different Data Rate (Mbps)									
		6	9	12	18	24	36	48	54		
Measurement Level (dBm)											
01	2412	13.31	--	--	--	--	--	--	--	<30dBm	Pass
06	2437	13.99	13.76	13.53	13.29	13.05	12.79	12.56	12.35	<30dBm	Pass
11	2462	14.09	--	--	--	--	--	--	--	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power								Required Limit	Result
		For different Data Rate (Mbps)									
		6	9	12	18	24	36	48	54		
Measurement Level (dBm)											
01	2412	13.11	--	--	--	--	--	--	--	<30dBm	Pass
06	2437	13.75	13.52	13.29	13.06	12.84	12.61	12.38	12.15	<30dBm	Pass
11	2462	14.24	--	--	--	--	--	--	--	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN A+B

Channel	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
1	2412	6	13.31	13.11	16.22	<30dBm	Pass
6	2437	6	13.99	13.75	16.88	<30dBm	Pass
11	2462	6	14.09	14.24	17.18	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Maximum Conducted Power
 Test Site : No.3 OATS
 Test Mode : Mode 3 MIMO: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)

CHAIN A

Channel No	Frequency (MHz)	Average Power								
		For different Data Rate (Mbps)								
		HT8	HT9	HT10	HT11	HT12	HT13	HT14	HT15	
Measurement Level (dBm)										
01	2412	13.49	--	--	--	--	--	--	--	--
06	2437	13.97	13.76	13.57	13.37	13.18	12.98	12.79	12.59	
11	2462	14.17	--	--	--	--	--	--	--	--

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power								
		For different Data Rate (Mbps)								
		HT8	HT9	HT10	HT11	HT12	HT13	HT14	HT15	
Measurement Level (dBm)										
01	2412	13.49	--	--	--	--	--	--	--	--
06	2437	13.70	13.41	13.09	12.79	12.46	12.15	11.84	11.52	
11	2462	14.19	--	--	--	--	--	--	--	--

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN A+B

Channel	Frequency (MHz)	Data Rata (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
1	2412	HT8	13.49	13.49	16.50	<30dBm	Pass
6	2437	HT8	13.97	13.70	16.85	<30dBm	Pass
11	2462	HT8	14.17	14.19	17.19	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Maximum Conducted Power
 Test Site : No.3 OATS
 Test Mode : Mode 4 MIMO: Transmit - 802.11n-40BW_30Mbps(2.4G Band)

CHAIN A

Channel No	Frequency (MHz)	Average Power								
		For different Data Rate (Mbps)								
		HT8	HT9	HT10	HT11	HT12	HT13	HT14	HT15	
Measurement Level (dBm)										
3	2422	13.43	--	--	--	--	--	--	--	--
6	2437	13.80	13.56	13.31	13.06	12.81	12.57	12.34	12.08	
9	2452	14.16	--	--	--	--	--	--	--	--

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power								
		For different Data Rate (Mbps)								
		HT8	HT9	HT10	HT11	HT12	HT13	HT14	HT15	
Measurement Level (dBm)										
3	2422	13.38	--	--	--	--	--	--	--	--
6	2437	13.84	13.58	13.33	13.07	13.87	13.65	13.41	13.18	
9	2452	14.44	--	--	--	--	--	--	--	--

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN A+B

Channel	Frequency (MHz)	Data Rata (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
3	2422	HT8	13.43	13.38	16.42	<30dBm	Pass
6	2437	HT8	13.80	13.84	16.83	<30dBm	Pass
9	2452	HT8	14.16	14.44	17.31	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

3. Radiated Emission

3.1. Test Equipment

The following test equipments are used during the radiated emission test:

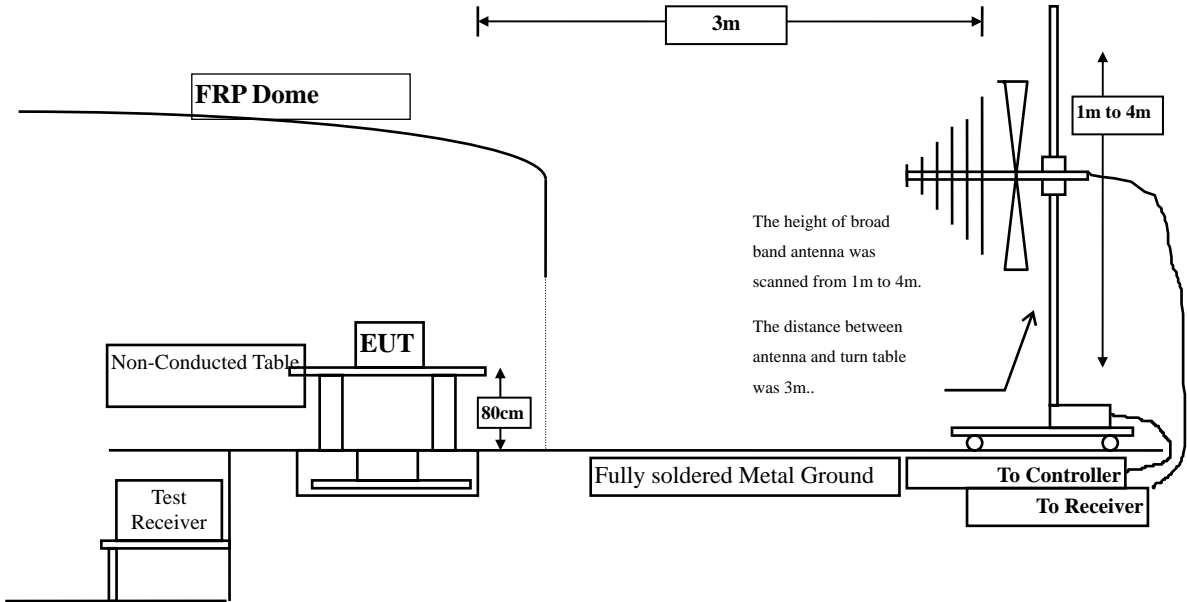
Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ Site # 3	X	Magnetic Loop Antenna	Teseq	HLA6121/ 37133	Sep, 2015
	X	Bilog Antenna	Schaffner Chase	CBL6112B/ 2707	Jun, 2015
	X	EMI Test Receiver	R&S	ESCS 30/838251/ 001	Jun, 2015
	X	Coaxial Cable	QTK(Armist)	RG 214/ LC003-RG	Jun, 2015
	X	Coaxial signal switch	Armist	MP59B/ 6200798682	Jun, 2015

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ CB # 8	X	Spectrum Analyzer	R&S	FSP40/ 100339	Oct, 2015
	X	Horn Antenna	ETS-Lindgren	3117/ 35205	Mar, 2015
	X	Horn Antenna	Schwarzbeck	BBHA9170/209	Jan, 2015
	X	Horn Antenna	TRC	AH-0801/95051	Aug, 2015
	X	Pre-Amplifier	EMCI	EMC012630SE/980210	Jan, 2015
	X	Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul, 2015
	X	Pre-Amplifier	NARDA	DBL-1840N506/013	Jul, 2015

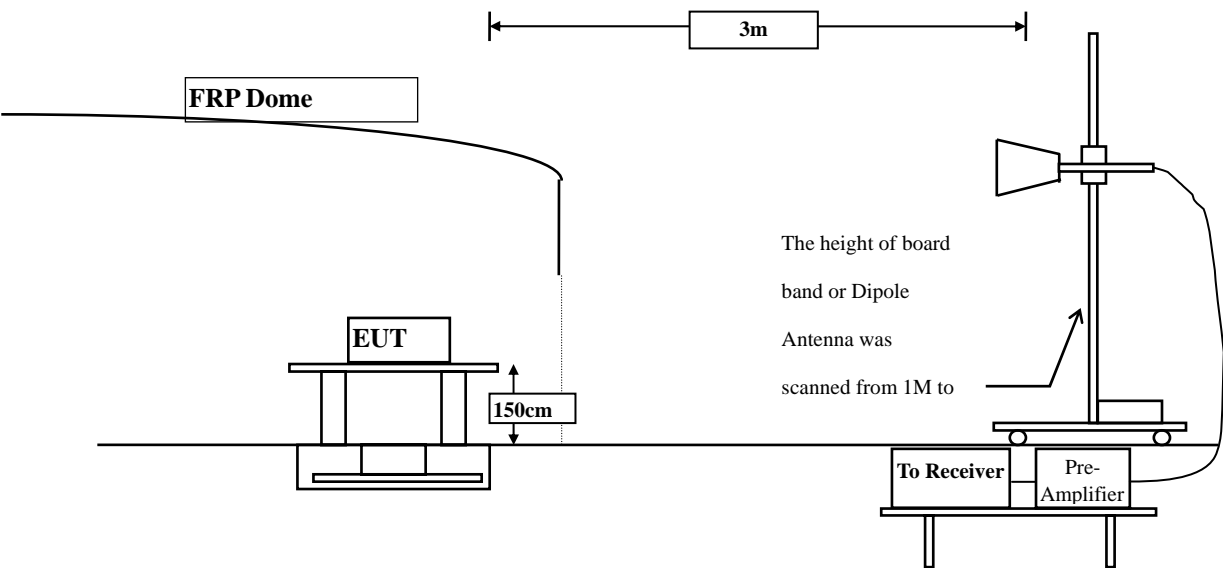
- Note:
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
 2. The test instruments marked with "X" are used to measure the final test results.

3.2. Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



3.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 30dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits		
Frequency MHz	Field strength (microvolts/meter)	Measurement distance (meter)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

3.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground, when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

The turn table is rotated 360 degrees to determine the position of the maximum emission level.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The worst radiated emission is measured in the Open Area Test Site on the Final Measurement.

The measurement frequency range from 9kHz - 10th Harmonic of fundamental was investigated.

3.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

3.6. Test Result of Radiated Emission

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1 SISO B: Transmit (802.11b 1Mbps) (2412MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4824.000	3.347	39.712	43.060	-30.940	74.000
7236.000	7.324	37.880	45.204	-28.796	74.000
9648.000	10.334	36.458	46.792	-27.208	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4824.000	3.347	39.542	42.890	-31.110	74.000
7236.000	7.324	37.379	44.703	-29.297	74.000
9648.000	10.334	37.049	47.383	-26.617	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : 802.11b/g/n RTL8192EE Combo module
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO B: Transmit (802.11b 1Mbps) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level	dB	dBuV/m
	dB	dBuV	dBuV/m		

Horizontal

Peak Detector:

4874.000	2.997	39.643	42.639	-31.361	74.000
7311.000	7.727	37.370	45.097	-28.903	74.000
9748.000	10.342	36.838	47.180	-26.820	74.000

Average

Detector:

--

Vertical

Peak Detector:

4874.000	2.997	39.847	42.843	-31.157	74.000
7311.000	7.727	37.957	45.684	-28.316	74.000
9748.000	10.342	37.912	48.254	-25.746	74.000

Average

Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1 SISO B: Transmit (802.11b 1Mbps) (2462 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4924.000	3.404	40.985	44.389	-29.611	74.000
7386.000	7.613	37.656	45.269	-28.731	74.000
9848.000	10.573	36.995	47.568	-26.432	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4924.000	3.404	40.887	44.291	-29.709	74.000
7386.000	7.613	36.996	44.609	-29.391	74.000
9848.000	10.573	37.321	47.894	-26.106	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : 802.11b/g/n RTL8192EE Combo module
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2 CDD=A+B: Transmit (802.11g 6Mbps) (2412MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4824.000	3.347	38.707	42.055	-31.945	74.000
7236.000	7.324	37.990	45.314	-28.686	74.000
9648.000	10.334	36.120	46.454	-27.546	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4824.000	3.347	39.925	43.273	-30.727	74.000
7236.000	7.324	38.440	45.764	-28.236	74.000
9648.000	10.334	36.990	47.324	-26.676	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : 802.11b/g/n RTL8192EE Combo module
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2 CDD=A+B: Transmit (802.11g 6Mbps) (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4874.000	2.997	38.919	41.915	-32.085	74.000
7311.000	7.727	36.923	44.650	-29.350	74.000
9748.000	10.342	36.457	46.799	-27.201	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4874.000	2.997	40.824	43.820	-30.180	74.000
7311.000	7.727	37.250	44.977	-29.023	74.000
9748.000	10.342	37.364	47.706	-26.294	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : 802.11b/g/n RTL8192EE Combo module
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2 CDD=A+B: Transmit (802.11g 6Mbps) (2462 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4924.000	3.404	38.904	42.308	-31.692	74.000
7386.000	7.613	36.853	44.466	-29.534	74.000
9848.000	10.573	35.263	45.836	-28.164	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4924.000	3.404	39.248	42.652	-31.348	74.000
7386.000	7.613	37.654	45.267	-28.733	74.000
9848.000	10.573	37.307	47.880	-26.120	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3 MIMO: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2412MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
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Horizontal

Peak Detector:

4824.000	3.347	38.617	41.965	-32.035	74.000
7236.000	7.324	37.522	44.846	-29.154	74.000
9648.000	10.334	36.737	47.071	-26.929	74.000

Average

Detector:

--

Vertical

Peak Detector:

4824.000	3.347	39.383	42.731	-31.269	74.000
7236.000	7.324	37.917	45.241	-28.759	74.000
9648.000	10.334	36.995	47.329	-26.671	74.000

Average

Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3 MIMO: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4874.000	2.997	38.934	41.930	-32.070	74.000
7311.000	7.727	36.847	44.574	-29.426	74.000
9748.000	10.342	36.450	46.792	-27.208	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4874.000	2.997	39.126	42.122	-31.878	74.000
7311.000	7.727	37.116	44.843	-29.157	74.000
9748.000	10.342	36.603	46.945	-27.055	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : 802.11b/g/n RTL8192EE Combo module
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2462 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4924.000	3.404	38.746	42.150	-31.850	74.000
7386.000	7.613	36.842	44.455	-29.545	74.000
9848.000	10.573	35.764	46.337	-27.663	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4924.000	3.404	39.750	43.154	-30.846	74.000
7386.000	7.613	37.803	45.416	-28.584	74.000
9848.000	10.573	36.253	46.826	-27.174	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : 802.11b/g/n RTL8192EE Combo module
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4 MIMO: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2422MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4844.000	3.135	39.090	42.226	-31.774	74.000
7266.000	7.405	38.128	45.532	-28.468	74.000
9688.000	10.292	36.516	46.807	-27.193	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4844.000	3.135	39.413	42.549	-31.451	74.000
7266.000	7.405	37.483	44.887	-29.113	74.000
9688.000	10.292	36.997	47.288	-26.712	74.000
Average Detector:					
--					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4 MIMO: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4874.000	2.997	38.863	41.859	-32.141	74.000
7311.000	7.727	37.114	44.841	-29.159	74.000
9748.000	10.342	36.121	46.463	-27.537	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4874.000	2.997	39.192	42.188	-31.812	74.000
7311.000	7.727	37.071	44.798	-29.202	74.000
9748.000	10.342	37.631	47.973	-26.027	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : 802.11b/g/n RTL8192EE Combo module
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4 MIMO: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2452 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4904.000	3.379	38.682	42.061	-31.939	74.000
7356.000	7.078	36.671	43.748	-30.252	74.000
9808.000	10.444	35.841	46.285	-27.715	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4904.000	3.379	39.023	42.402	-31.598	74.000
7356.000	7.078	37.600	44.677	-29.323	74.000
9808.000	10.444	37.271	47.715	-26.285	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1 SISO B: Transmit (802.11b 1Mbps) (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
66.860	-12.355	47.200	34.845	-5.155	40.000
159.980	-11.775	41.732	29.957	-13.543	43.500
227.880	-8.969	43.402	34.434	-11.566	46.000
328.760	-4.609	40.434	35.825	-10.175	46.000
408.300	-2.866	38.904	36.038	-9.962	46.000
546.040	3.570	26.346	29.915	-16.085	46.000
Vertical					
123.120	-3.921	34.810	30.889	-12.611	43.500
165.800	-7.719	35.848	28.129	-15.371	43.500
363.680	-2.393	34.757	32.364	-13.636	46.000
452.920	-6.306	37.861	31.555	-14.445	46.000
571.260	-5.526	40.024	34.499	-11.501	46.000
720.640	-0.099	32.576	32.477	-13.523	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2 CDD=A+B: Transmit (802.11g 6Mbps) (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
109.540	-7.488	37.241	29.753	-13.747	43.500
152.220	-10.135	39.105	28.970	-14.530	43.500
262.800	-5.013	46.893	41.880	-4.120	46.000
334.580	-3.901	37.152	33.251	-12.749	46.000
478.140	-0.291	35.110	34.819	-11.181	46.000
602.300	4.287	30.715	35.002	-10.998	46.000
Vertical					
117.300	-3.106	31.047	27.941	-15.559	43.500
202.660	-7.739	36.420	28.681	-14.819	43.500
288.020	-8.189	38.947	30.758	-15.242	46.000
480.080	-4.359	35.615	31.256	-14.744	46.000
600.360	-2.833	29.686	26.853	-19.147	46.000
780.780	3.060	24.490	27.550	-18.450	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3 MIMO: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
167.740	-10.799	40.909	30.110	-13.390	43.500
322.940	-4.442	41.649	37.207	-8.793	46.000
390.840	-1.849	35.791	33.942	-12.058	46.000
540.220	2.551	29.626	32.177	-13.823	46.000
600.360	3.977	29.617	33.594	-12.406	46.000
664.380	2.062	34.053	36.115	-9.885	46.000
Vertical					
140.580	-6.241	44.367	38.126	-5.374	43.500
247.280	-8.042	37.420	29.377	-16.623	46.000
359.800	-3.810	37.426	33.616	-12.384	46.000
478.140	-4.431	39.321	34.890	-11.110	46.000
610.060	-1.579	32.514	30.935	-15.065	46.000
753.620	3.187	30.999	34.186	-11.814	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4 MIMO: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
107.600	-7.058	41.789	34.731	-8.769	43.500
161.920	-11.626	43.314	31.689	-11.811	43.500
245.340	-6.346	45.411	39.065	-6.935	46.000
334.580	-3.901	42.053	38.152	-7.848	46.000
480.080	-0.329	39.853	39.524	-6.476	46.000
809.880	5.049	30.851	35.900	-10.100	46.000
Vertical					
128.940	-4.128	30.754	26.626	-16.874	43.500
214.300	-8.101	35.170	27.069	-16.431	43.500
338.460	-4.265	35.809	31.544	-14.456	46.000
435.460	-8.800	37.771	28.971	-17.029	46.000
528.580	-0.462	30.912	30.450	-15.550	46.000
720.640	-0.099	30.791	30.692	-15.308	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

4. Band Edge

4.1. Test Equipment

RF Conducted Measurement

The following test equipments are used during the band edge tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

RF Radiated Measurement:

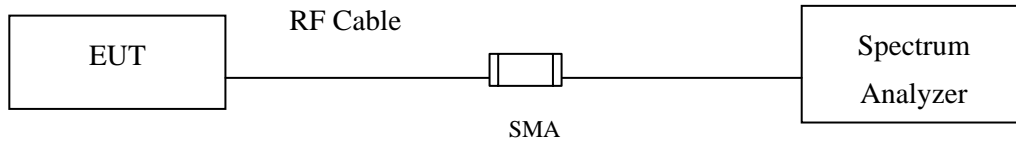
The following test equipments are used during the band edge tests:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ CB # 8	X	Spectrum Analyzer	R&S	FSP40/ 100339	Oct, 2015
	X	Horn Antenna	ETS-Lindgren	3117/ 35205	Mar, 2015
	X	Horn Antenna	Schwarzbeck	BBHA9170/209	Jan, 2015
	X	Horn Antenna	TRC	AH-0801/95051	Aug, 2015
	X	Pre-Amplifier	EMCI	EMC012630SE/980210	Jan, 2015
	X	Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul, 2015
	X	Pre-Amplifier	NARDA	DBL-1840N506/013	Jul, 2015

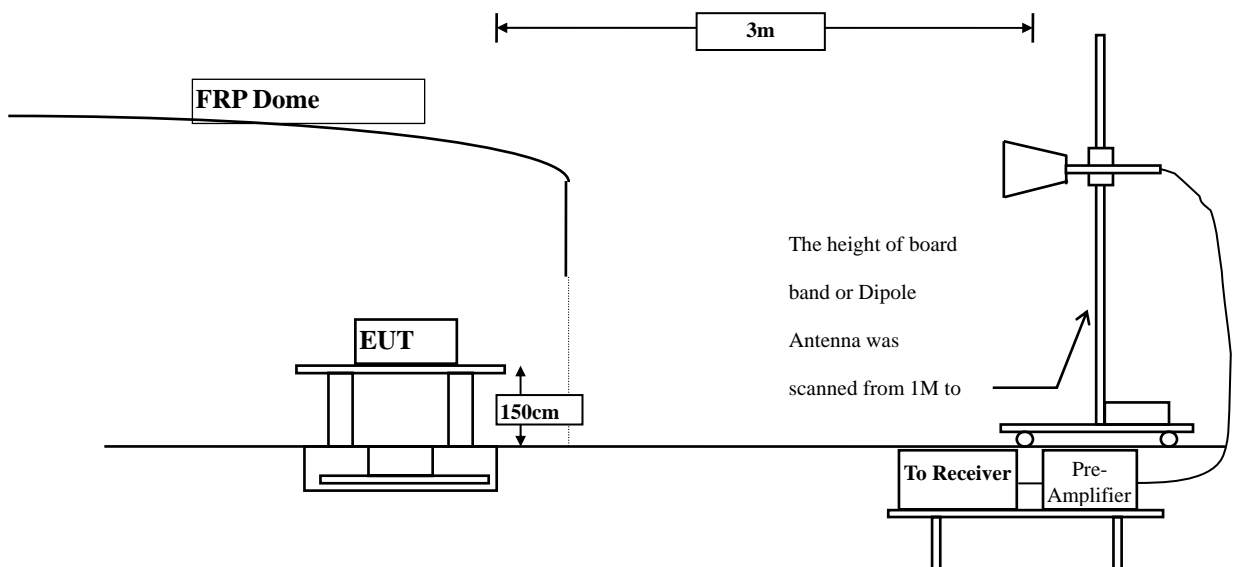
- Note:
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
 2. The test instruments marked with “X” are used to measure the final test results.

4.2. Test Setup

RF Conducted Measurement



RF Radiated Measurement:



4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 30dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

4.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.

4.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

4.6. Test Result of Band Edge

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1 SISO B: Transmit (802.11b 1Mbps)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2388.100	-1.186	51.716	50.530	74.00	54.00	Pass
01 (Peak)	2390.000	-1.182	51.330	50.147	74.00	54.00	Pass
01 (Peak)	2398.800	-1.170	57.435	56.266	--	--	--
01 (Peak)	2400.000	-1.168	56.037	54.869	--	--	--
01 (Peak)	2412.100	-1.034	96.170	95.136	--	--	--
01 (Average)	2390.000	-1.182	38.750	37.567	74.00	54.00	Pass
01 (Average)	2398.700	-1.170	50.433	49.263	--	--	--
01 (Average)	2400.000	-1.168	46.216	45.048	--	--	--
01 (Average)	2411.200	-1.047	92.891	91.844	--	--	--

Figure Channel 01: Horizontal (Peak)

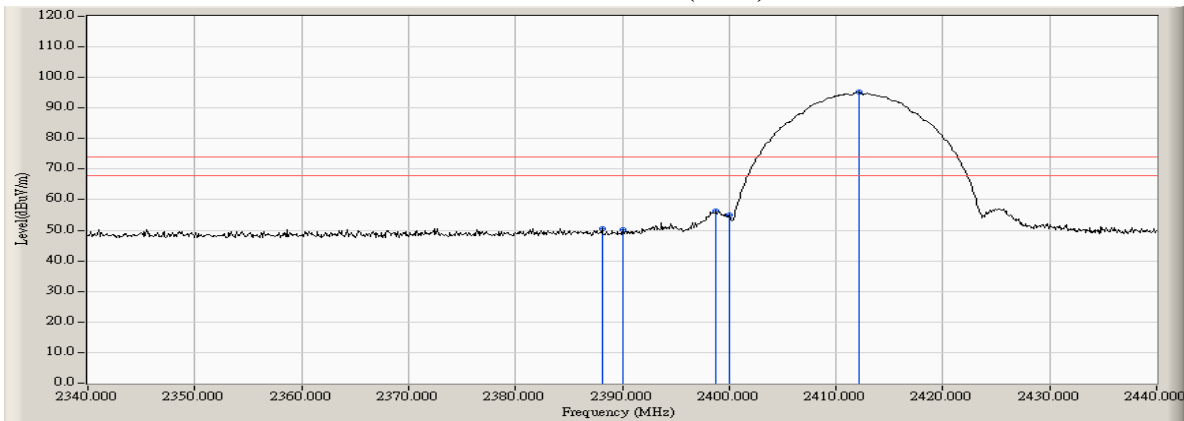
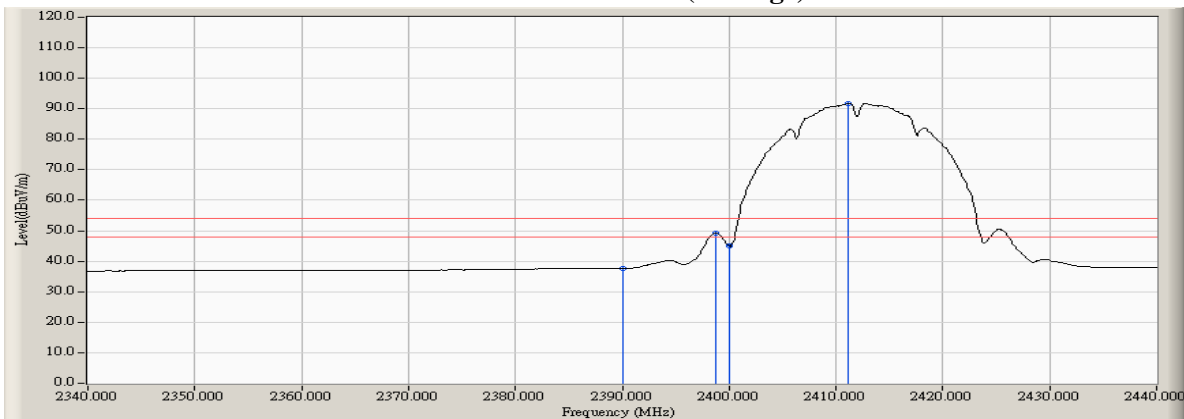


Figure Channel 01: Horizontal (Average)



- Note: 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
 4. “ * ”, means this data is the worst emission level.
 5. Measurement Level = Reading Level + Correct Factor.
 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1 SISO B: Transmit (802.11b 1Mbps)

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2388.300	-1.185	52.097	50.911	74.00	54.00	Pass
01 (Peak)	2390.000	-1.182	51.026	49.843	74.00	54.00	Pass
01 (Peak)	2398.600	-1.170	57.634	56.464	--	--	--
01 (Peak)	2400.000	-1.168	56.162	54.994	--	--	--
01 (Peak)	2412.100	-1.034	96.141	95.107	--	--	--
01 (Average)	2390.000	-1.182	38.907	37.724	74.00	54.00	Pass
01 (Average)	2398.500	-1.170	50.962	49.792	--	--	--
01 (Average)	2400.000	-1.168	46.927	45.759	--	--	--
01 (Average)	2411.200	-1.047	92.974	91.927	--	--	--

Figure Channel 01: Vertical (Peak)

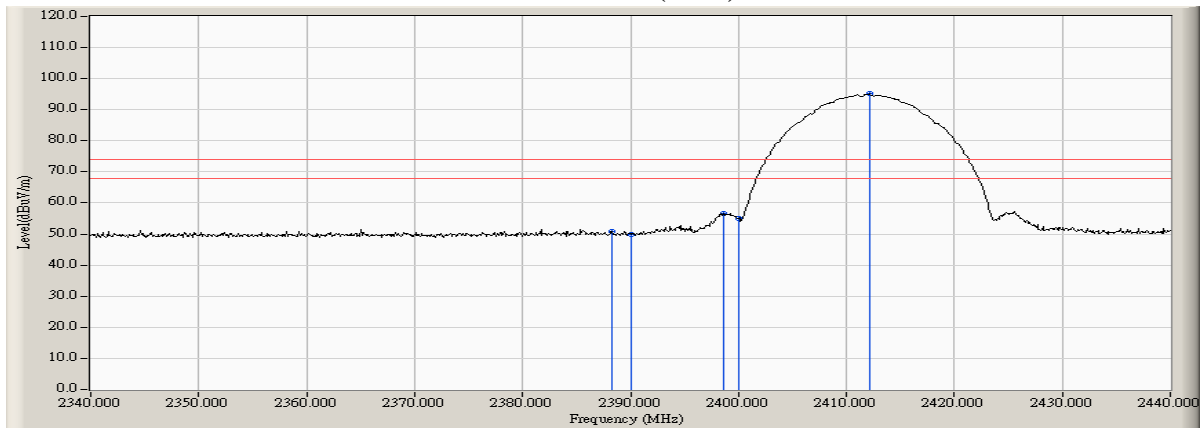
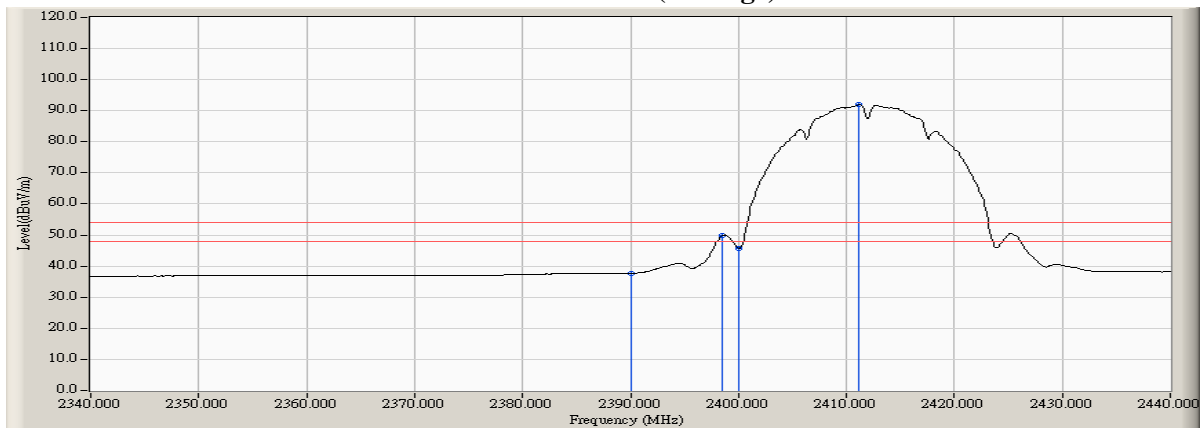


Figure Channel 01: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1 SISO B: Transmit (802.11b 1Mbps)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2462.100	-0.932	95.715	94.783	--	--	--
11 (Peak)	2483.500	-0.607	51.121	50.513	74.00	54.00	Pass
11 (Peak)	2487.700	-0.545	52.954	52.410	74.00	54.00	Pass
11 (Average)	2461.200	-0.946	92.913	91.967	--	--	--
11 (Average)	2483.500	-0.607	38.556	37.948	74.00	54.00	Pass
11 (Average)	2487.800	-0.542	40.437	39.894	74.00	54.00	Pass

Figure Channel 11: Horizontal (Peak)

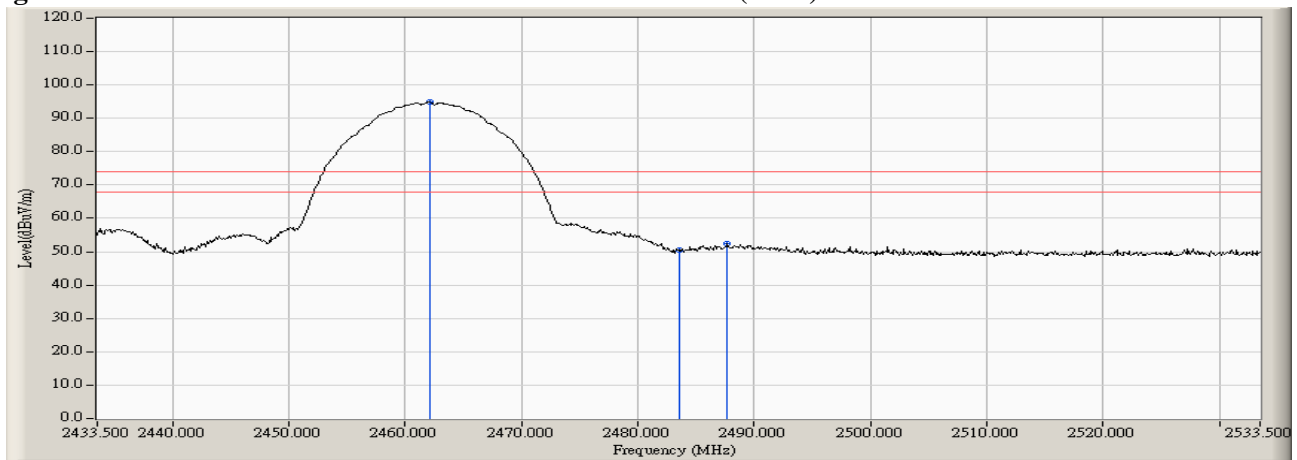
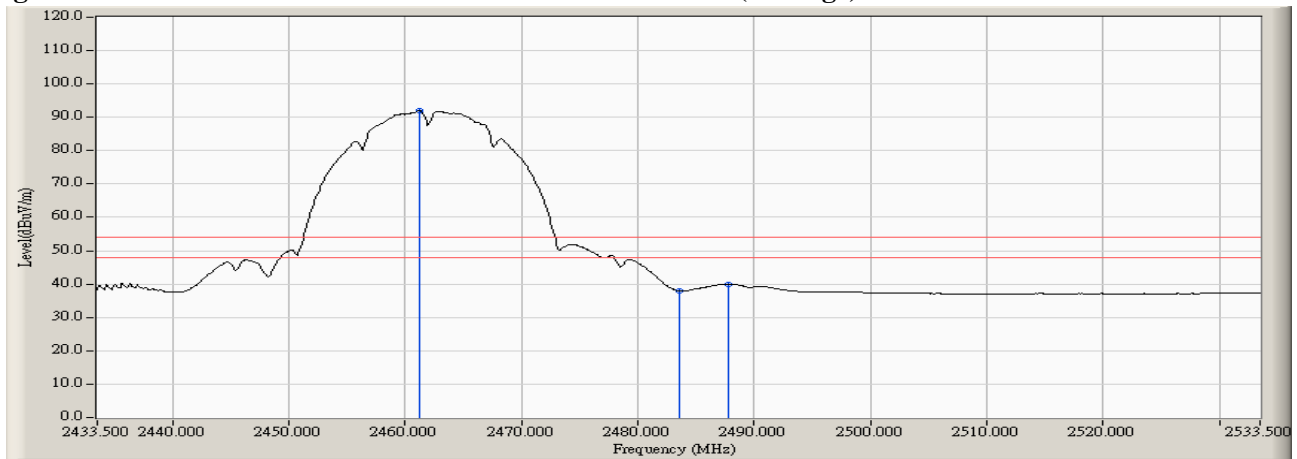


Figure Channel 11: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1 SISO B: Transmit (802.11b 1Mbps)

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2461.900	-0.935	94.705	93.770	--	--	--
11 (Peak)	2483.500	-0.607	50.394	49.786	74.00	54.00	Pass
11 (Peak)	2484.400	-0.594	52.386	51.791	74.00	54.00	Pass
11 (Average)	2461.200	-0.946	91.663	90.717	--	--	--
11 (Average)	2483.500	-0.607	38.185	37.577	74.00	54.00	Pass
11 (Average)	2487.300	-0.550	39.400	38.850	74.00	54.00	Pass

Figure Channel 11: Vertical (Peak)

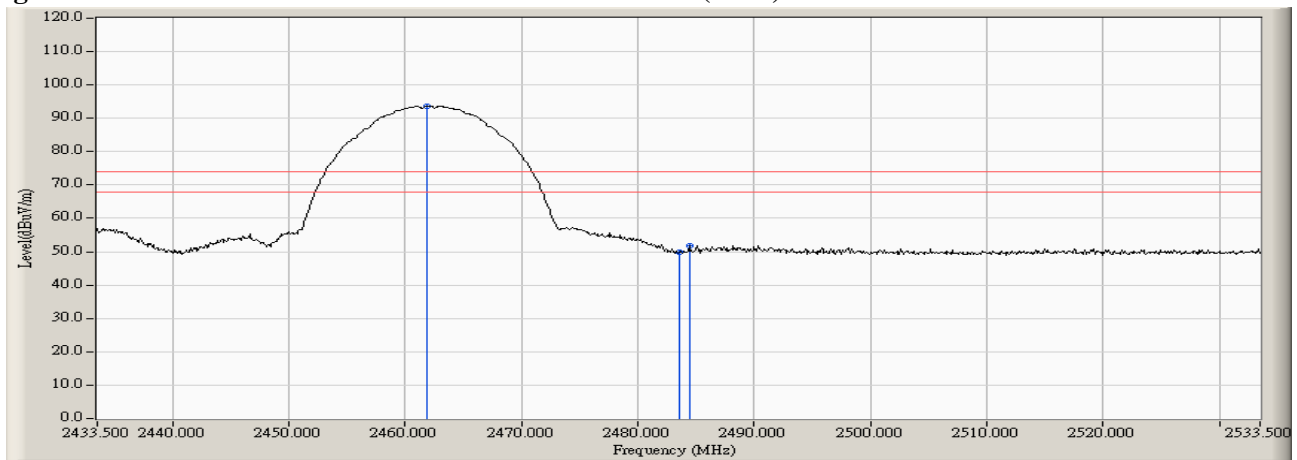
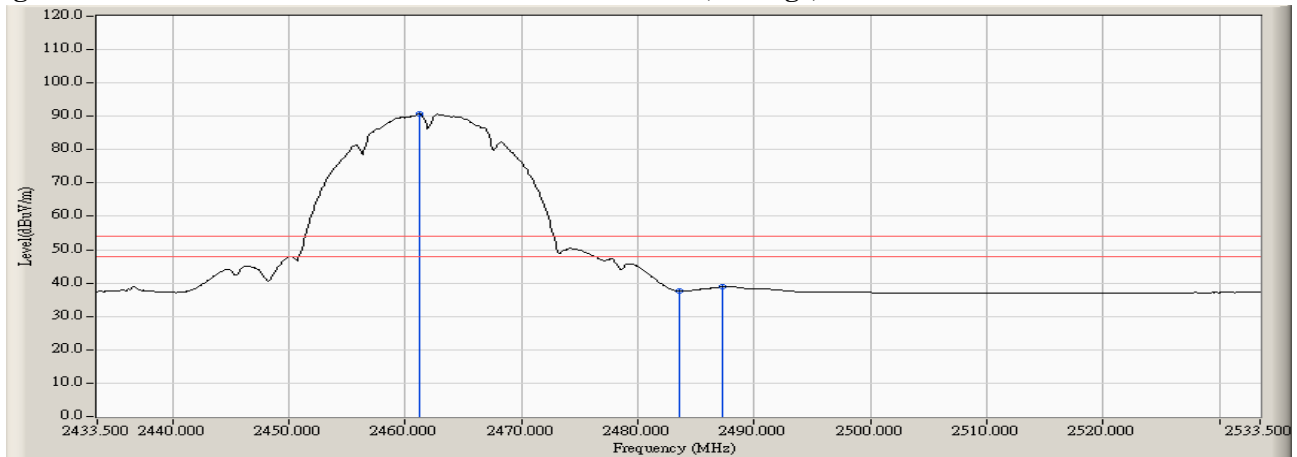


Figure Channel 11: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 2 CDD=A+B: Transmit (802.11g 6Mbps)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2389.200	-1.184	63.304	62.120	74.00	54.00	Pass
01 (Peak)	2390.000	-1.182	60.110	58.927	74.00	54.00	Pass
01 (Peak)	2397.600	-1.172	71.590	70.419	--	--	--
01 (Peak)	2400.000	-1.168	74.827	73.659	--	--	--
01 (Peak)	2413.400	-1.017	98.971	97.954	--	--	--
01(Average)	2390.000	-1.182	42.036	40.853	74.00	54.00	Pass
01(Average)	2400.000	-1.168	49.897	48.729	--	--	--
01(Average)	2409.700	-1.066	90.207	89.141	--	--	--

Figure Channel 01: Horizontal (Peak)

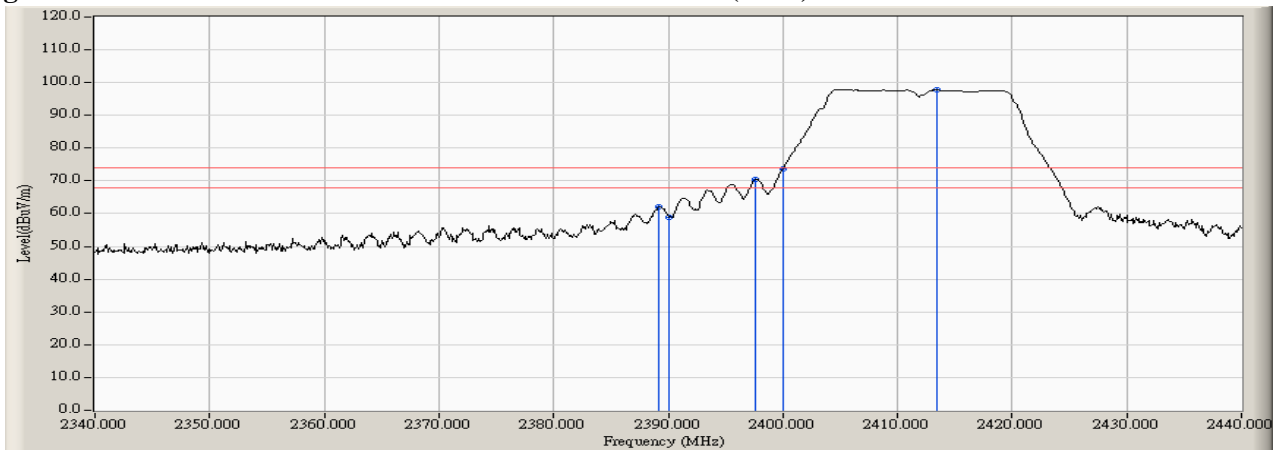
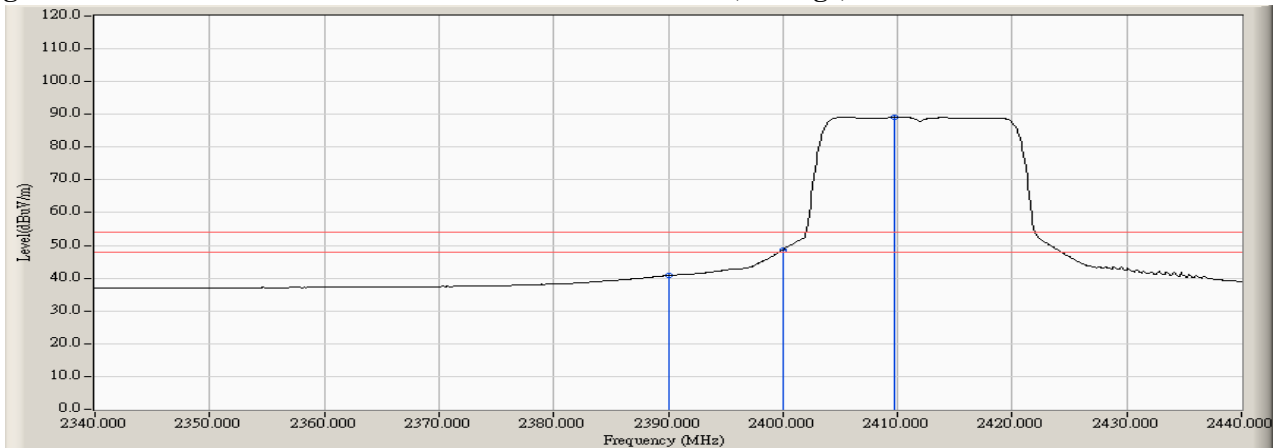


Figure Channel 01: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 2 CDD=A+B: Transmit (802.11g 6Mbps)

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2389.200	-1.184	61.870	60.686	74.00	54.00	Pass
01 (Peak)	2390.000	-1.182	57.590	56.407	74.00	54.00	Pass
01 (Peak)	2397.800	-1.171	69.428	68.257	--	--	--
01 (Peak)	2400.000	-1.168	72.622	71.454	--	--	--
01 (Peak)	2413.400	-1.017	97.928	96.911	--	--	--
01 (Average)	2390.000	-1.182	41.532	40.349	74.00	54.00	Pass
01 (Average)	2400.000	-1.168	49.323	48.155	--	--	--
01 (Average)	2409.600	-1.067	89.268	88.201	--	--	--

Figure Channel 01: Vertical (Peak)

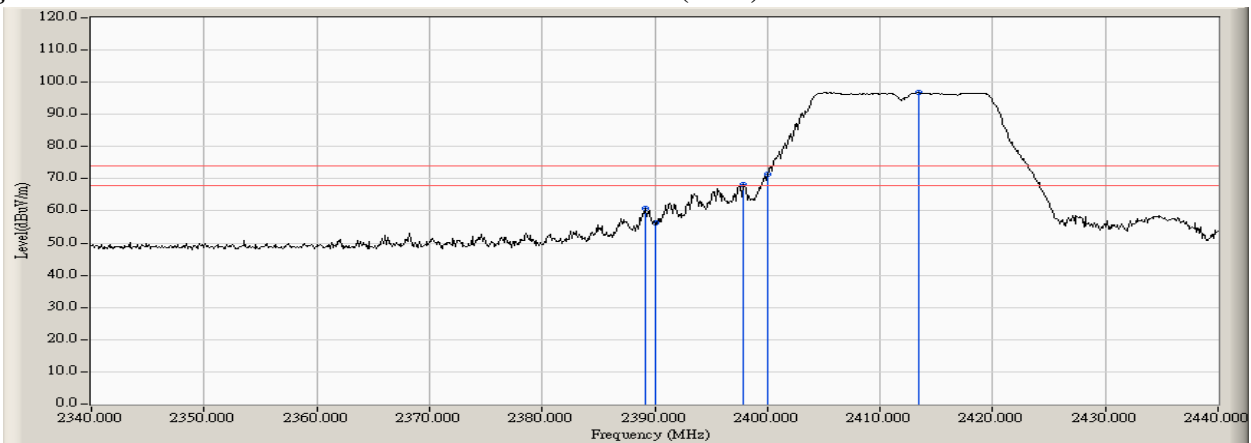
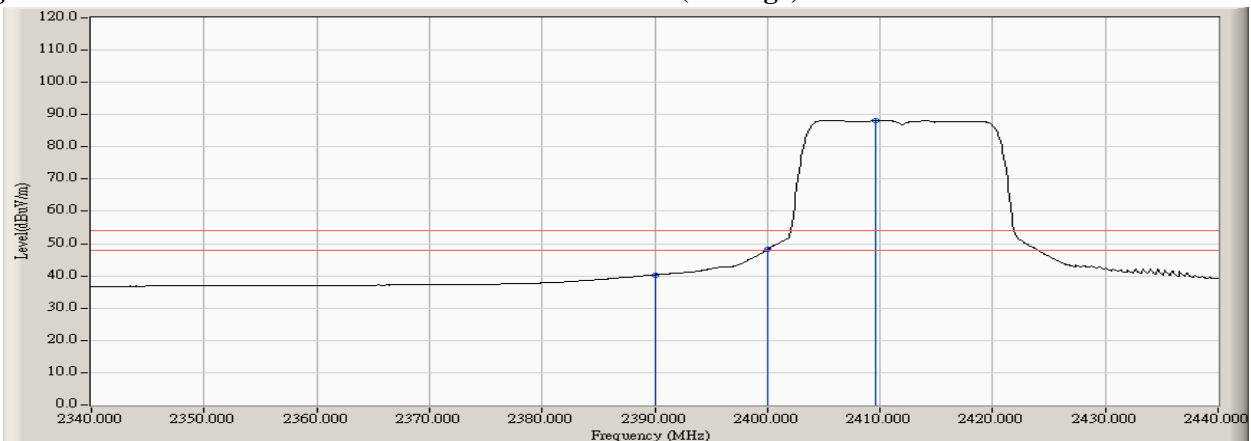


Figure Channel 01: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 2 CDD=A+B: Transmit (802.11g 6Mbps)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2458.500	-0.988	103.928	102.939	--	--	--
11 (Peak)	2483.500	-0.607	59.232	58.624	74.00	54.00	Pass
11 (Peak)	2486.400	-0.564	60.372	59.808	74.00	54.00	Pass
11 (Average)	2456.000	-1.028	95.500	94.472	--	--	--
11 (Average)	2483.500	-0.607	43.837	43.229	74.00	54.00	Pass

Figure Channel 11: Horizontal (Peak)

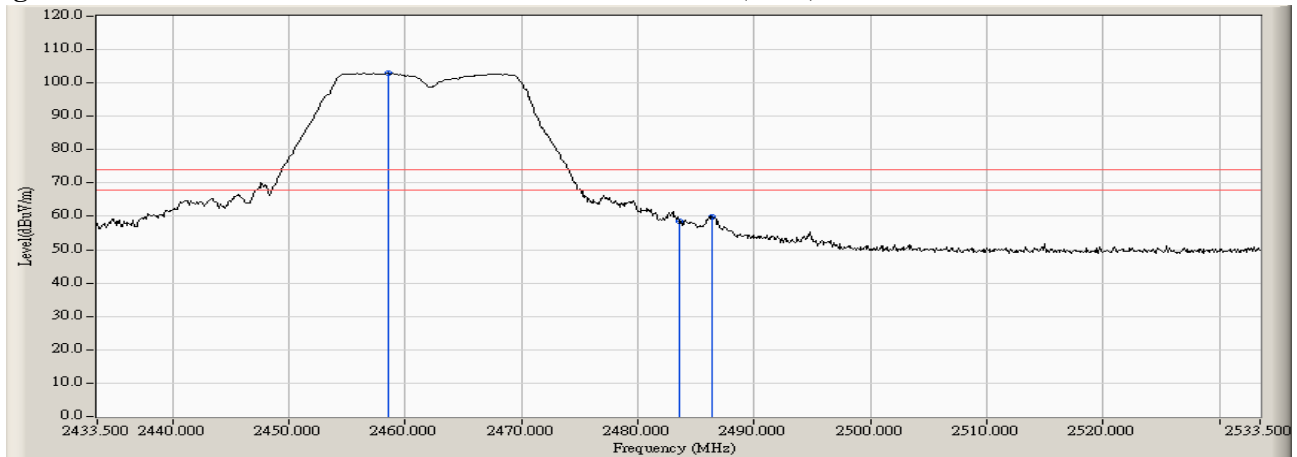
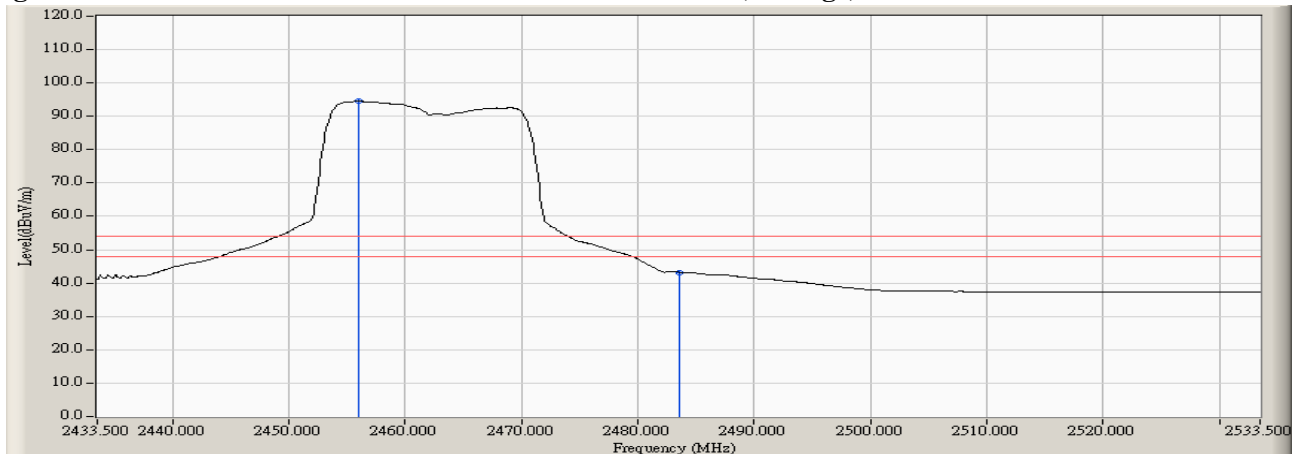


Figure Channel 11: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 2 CDD=A+B: Transmit (802.11g 6Mbps)

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2455.200	-1.020	99.564	98.544	--	--	--
11 (Peak)	2483.500	-0.607	53.639	53.031	74.00	54.00	Pass
11 (Peak)	2486.300	-0.566	55.947	55.381	74.00	54.00	Pass
11 (Average)	2454.900	-1.016	87.799	86.783	--	--	--
11 (Average)	2483.500	-0.607	41.095	40.487	74.00	54.00	Pass

Figure Channel 11: Vertical (Peak)

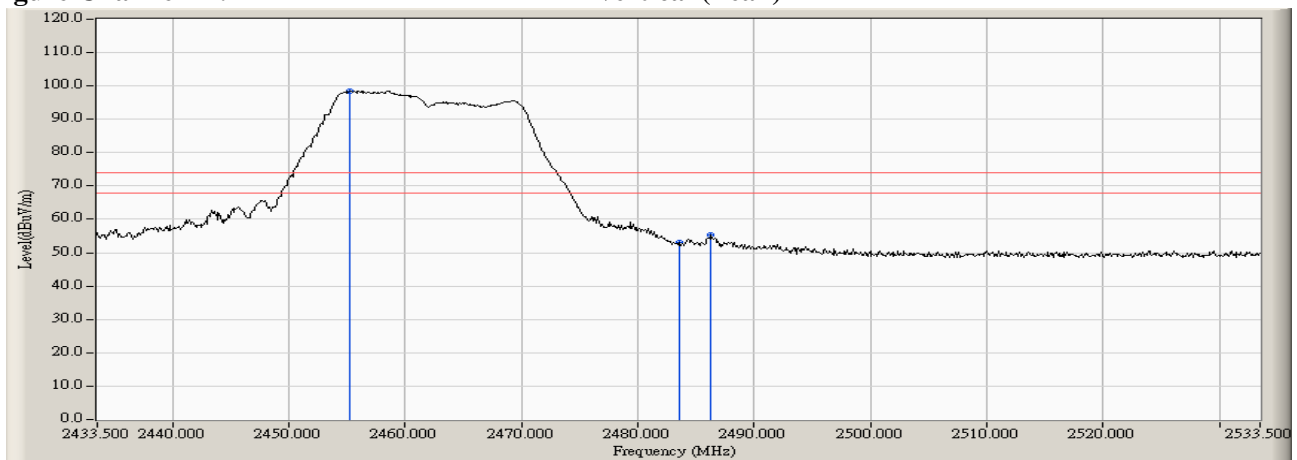
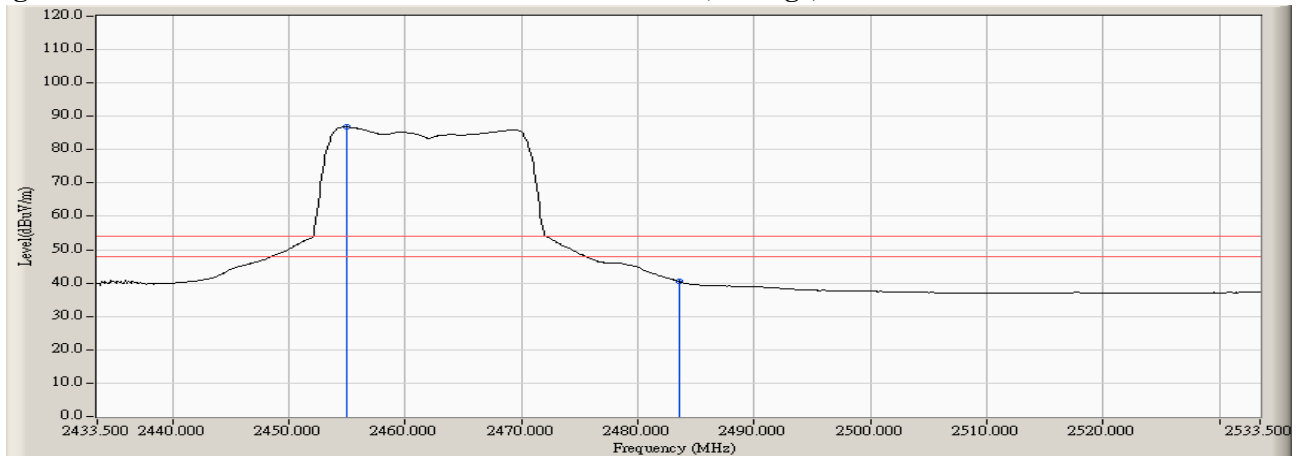


Figure Channel 11: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 3 MIMO: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2389.500	-1.184	74.209	73.025	74.00	54.00	Pass
01 (Peak)	2390.000	-1.182	73.092	71.909	74.00	54.00	Pass
01 (Peak)	2397.900	-1.171	80.249	79.078	--	--	--
01 (Peak)	2400.000	-1.168	80.212	79.044	--	--	--
01 (Peak)	2408.800	-1.078	105.253	104.175	--	--	--
01 (Average)	2390.000	-1.182	46.839	45.656	74.00	54.00	Pass
01 (Average)	2400.000	-1.168	55.886	54.718	--	--	--
01 (Average)	2415.000	-0.996	93.010	92.015	--	--	--

Figure Channel 01: Horizontal (Peak)

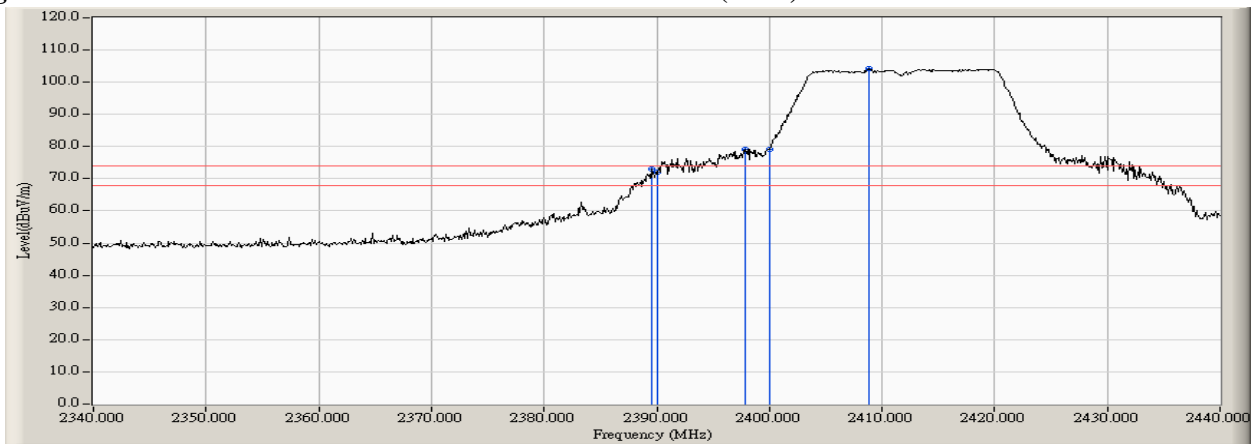
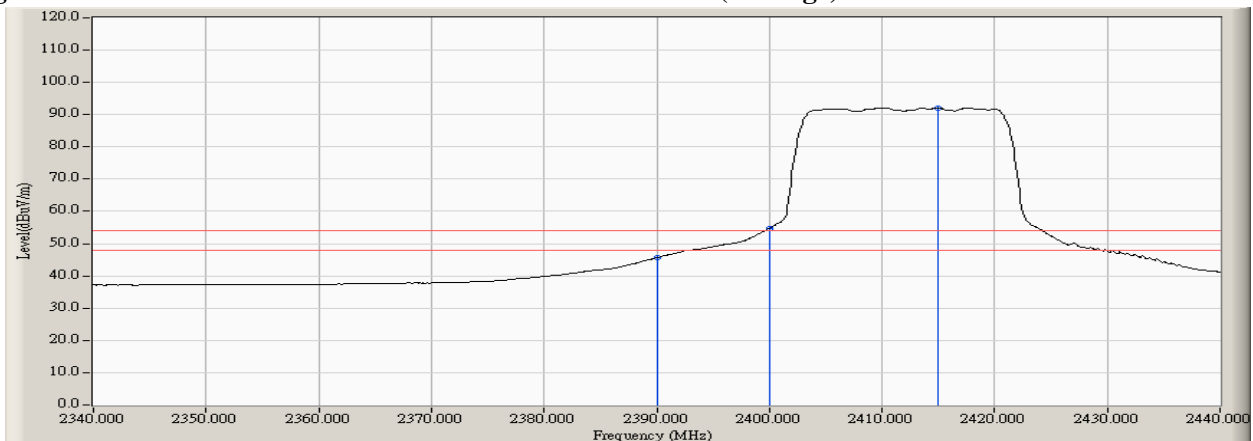


Figure Channel 01: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 3 MIMO: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2389.700	-1.183	63.834	62.651	74.00	54.00	Pass
01 (Peak)	2390.000	-1.182	60.834	59.651	74.00	54.00	Pass
01 (Peak)	2400.000	-1.168	76.230	75.062	--	--	--
01 (Peak)	2408.800	-1.078	101.476	100.398	--	--	--
01 (Average)	2390.000	-1.182	44.561	43.378	74.00	54.00	Pass
01 (Average)	2400.000	-1.168	52.741	51.573	--	--	--
01 (Average)	2410.400	-1.057	91.717	90.660	--	--	--

Figure Channel 01: Vertical (Peak)

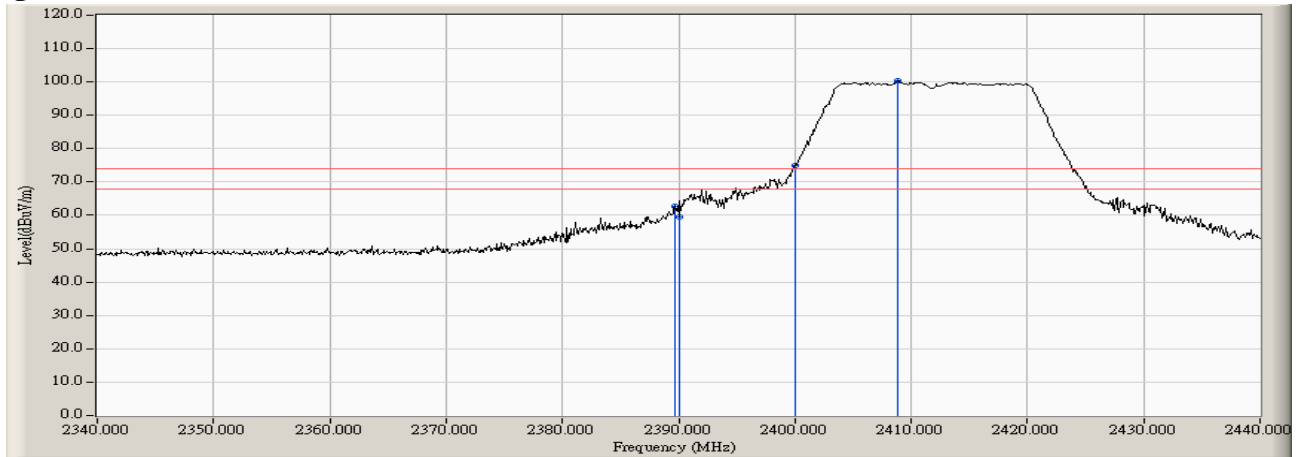
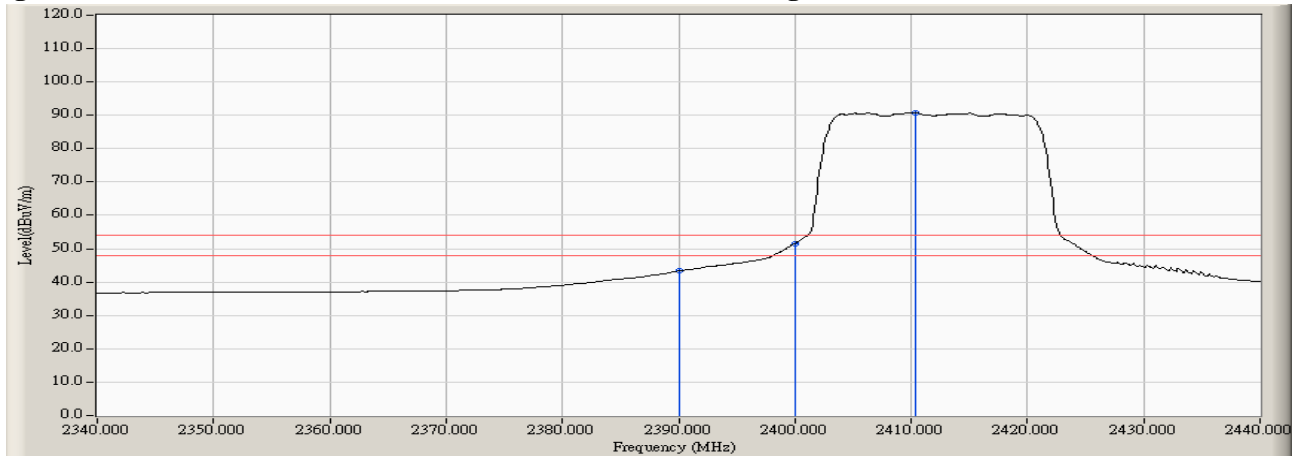


Figure Channel 01: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 3 MIMO: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBUV)	Emission Level (dBUV/m)	Peak Limit (dBUV/m)	Average Limit (dBUV/m)	Result
11 (Peak)	2458.900	-0.982	103.592	102.610	--	--	--
11 (Peak)	2483.500	-0.607	66.360	65.752	74.00	54.00	Pass
11 (Average)	2470.000	-0.811	87.427	86.616	--	--	--
11 (Average)	2483.500	-0.607	45.791	45.183	74.00	54.00	Pass

Figure Channel 11: Horizontal (Peak)

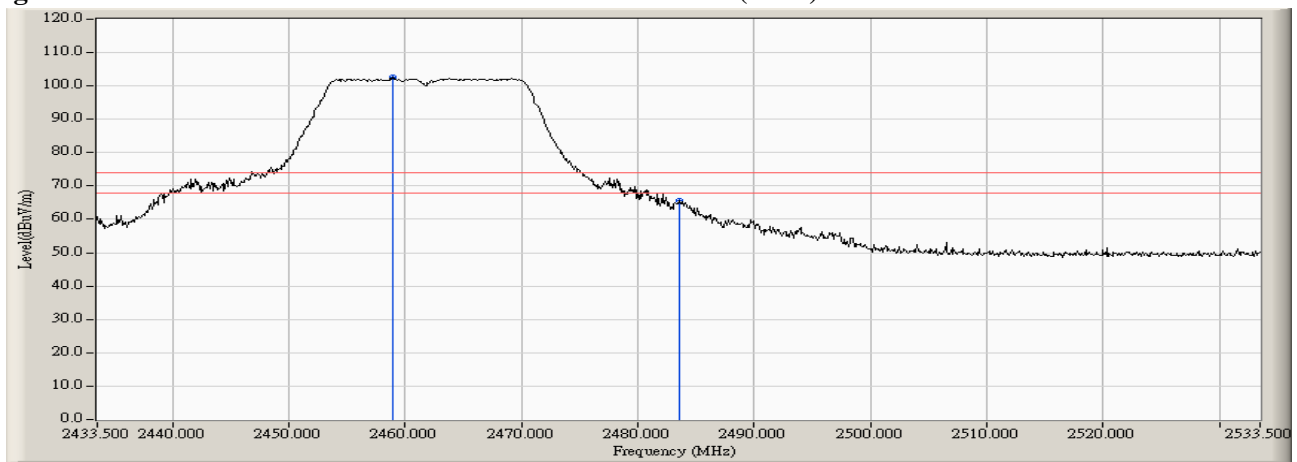
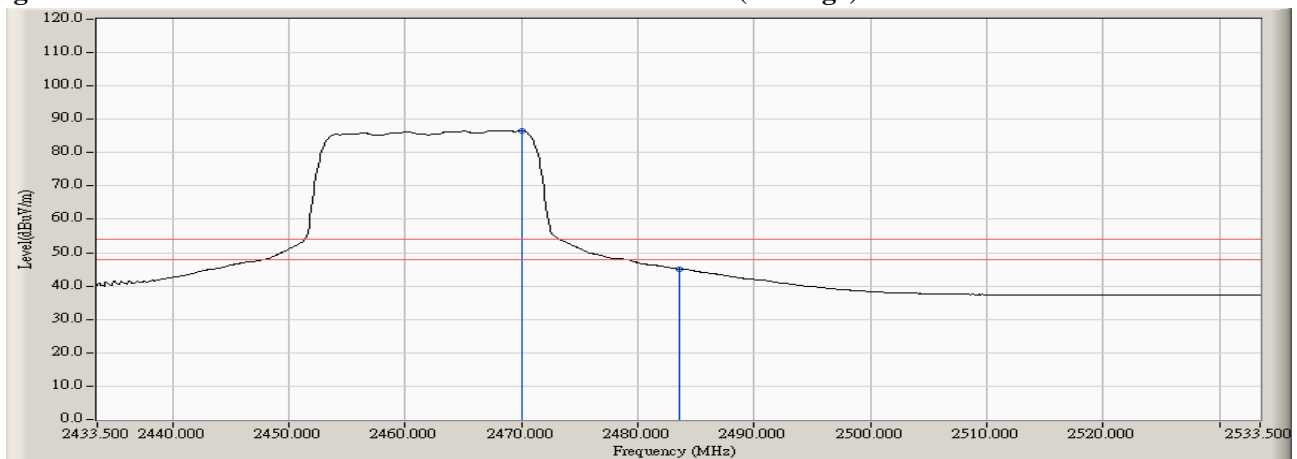


Figure Channel 11: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 3 MIMO: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2458.900	-0.982	98.520	97.538	--	--	--
11 (Peak)	2483.500	-0.607	55.483	54.875	74.00	54.00	Pass
11 (Peak)	2484.500	-0.593	57.064	56.471	74.00	54.00	Pass
11 (Average)	2467.700	-0.846	85.646	84.800	--	--	--
11 (Average)	2483.500	-0.607	41.985	41.377	74.00	54.00	Pass

Figure Channel 11: Vertical (Peak)

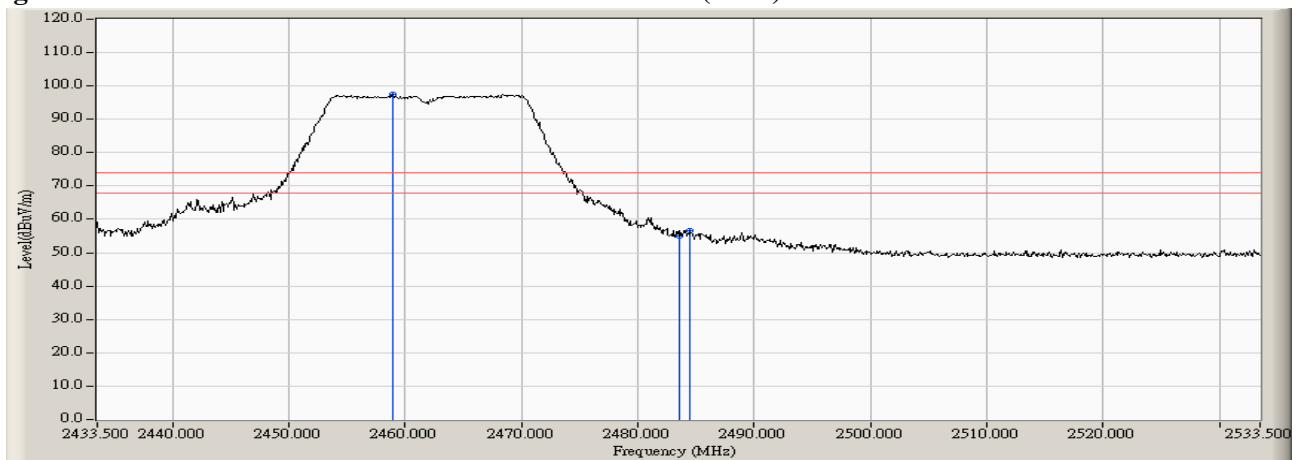
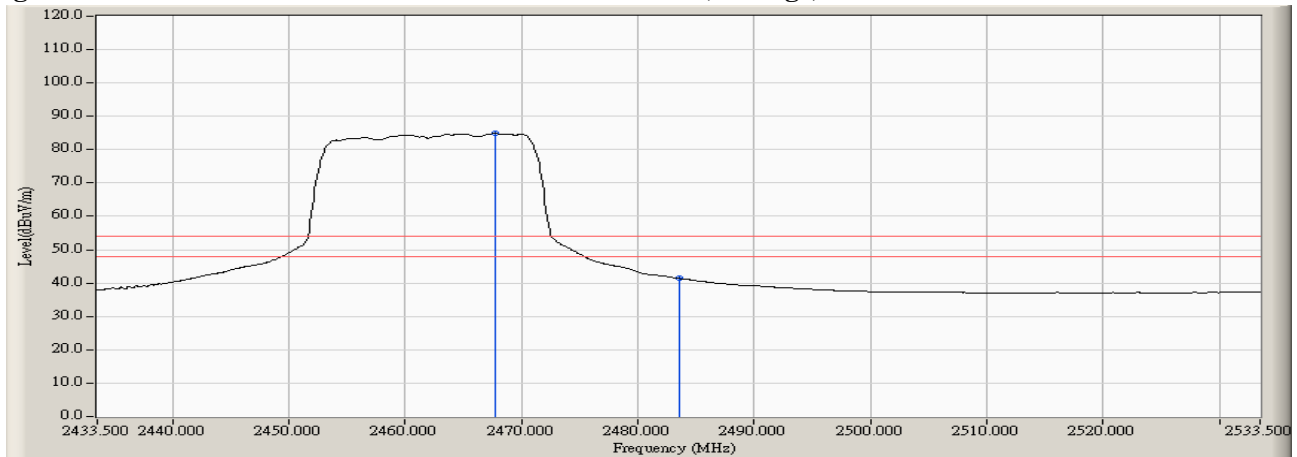


Figure Channel 11: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 4 MIMO: Transmit - 802.11n-40BW_30Mbps(2.4G Band)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
03 (Peak)	2385.800	-1.190	65.665	64.475	74.00	54.00	Pass
03 (Peak)	2390.000	-1.182	64.181	62.998	74.00	54.00	Pass
03 (Peak)	2400.000	-1.168	71.253	70.085	--	--	--
03 (Peak)	2419.600	-0.933	98.911	97.979	--	--	--
03 (Average)	2390.000	-1.182	46.753	45.570	74.00	54.00	Pass
03 (Average)	2400.000	-1.168	58.254	57.086	--	--	--
03 (Average)	2417.500	-0.961	89.361	88.400	--	--	--

Figure Channel 01: Horizontal (Peak)

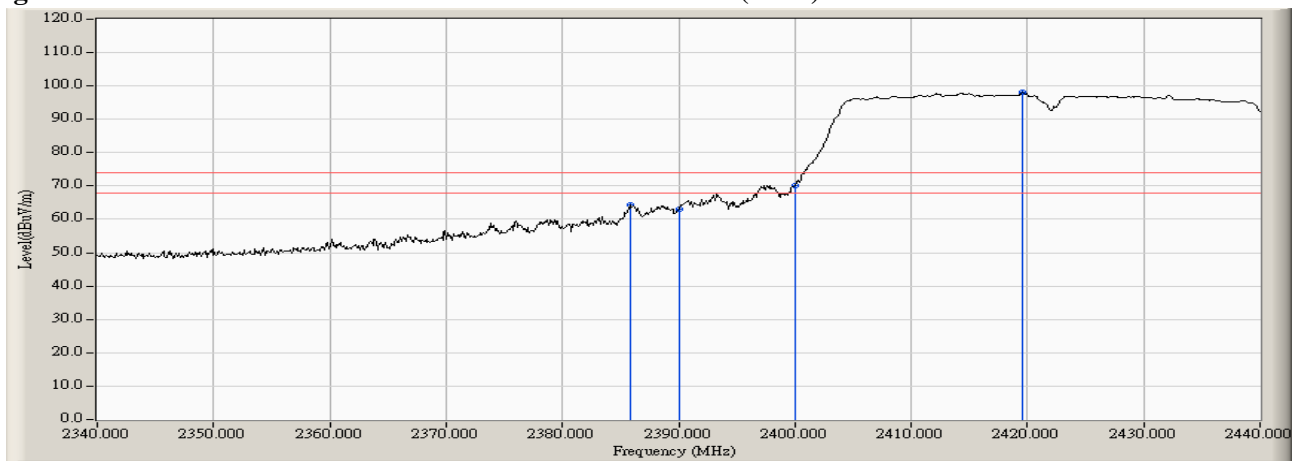
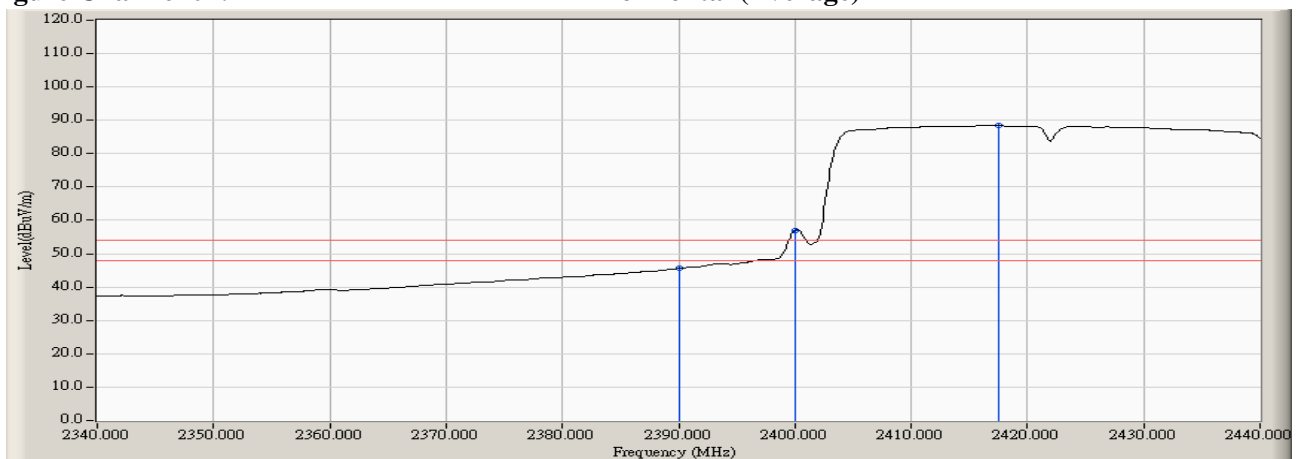


Figure Channel 01: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 4 MIMO: Transmit - 802.11n-40BW_30Mbps(2.4G Band)

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
03 (Peak)	2386.200	-1.189	59.619	58.429	74.00	54.00	Pass
03 (Peak)	2390.000	-1.182	58.127	56.944	74.00	54.00	Pass
03 (Peak)	2400.000	-1.168	68.142	66.974	--	--	--
03 (Peak)	2419.700	-0.931	97.214	96.283	--	--	--
03 (Average)	2390.000	-1.182	44.781	43.598	74.00	54.00	Pass
03 (Average)	2400.000	-1.168	54.862	53.694	--	--	--
03 (Average)	2427.000	-0.878	87.740	86.862	--	--	--

Figure Channel 01: Vertical (Peak)

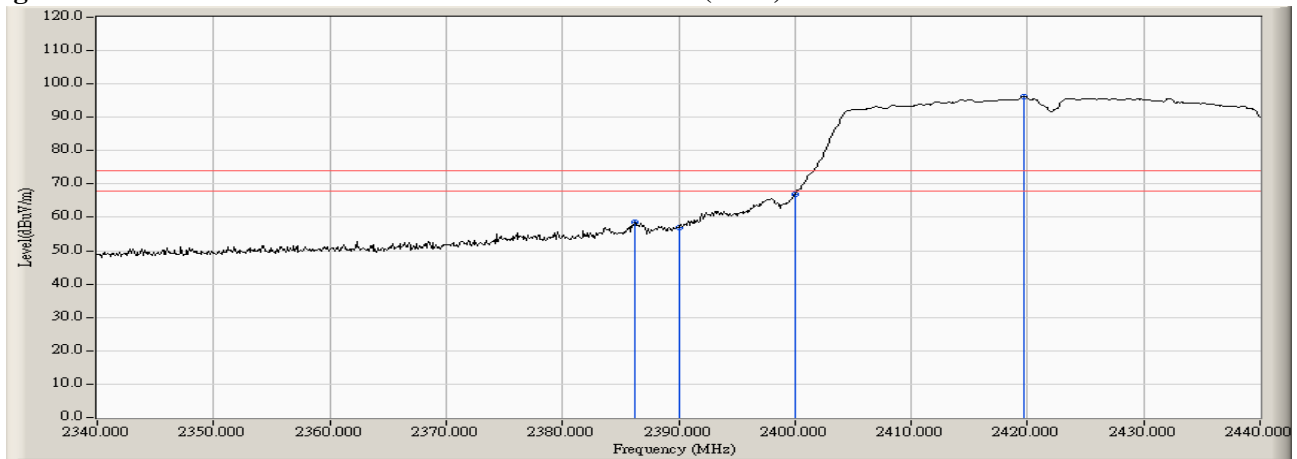
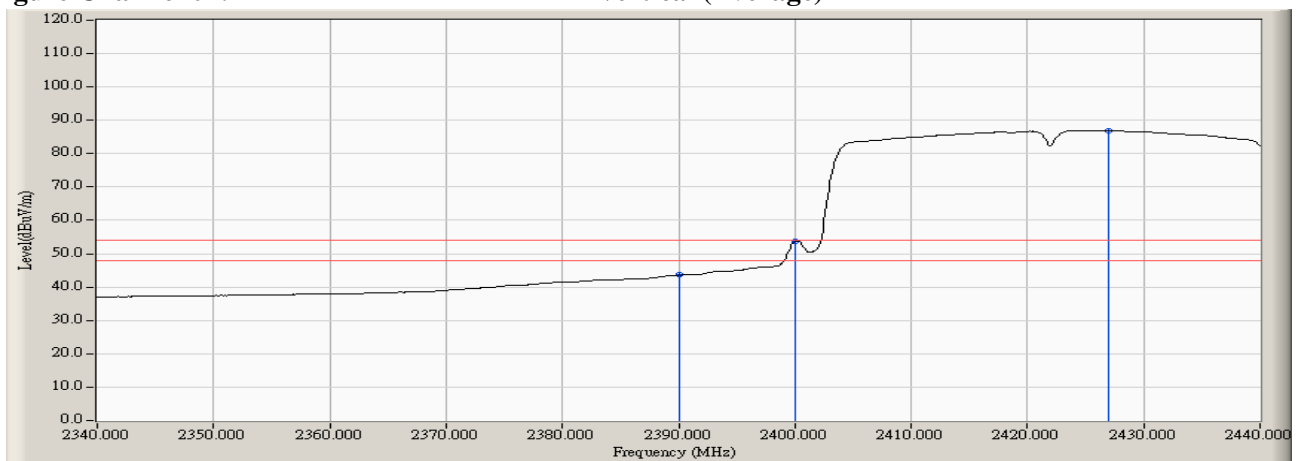


Figure Channel 01: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 4 MIMO: Transmit - 802.11n-40BW_30Mbps(2.4G Band)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
09 (Peak)	2449.700	-0.950	102.849	101.899	--	--	--
09 (Peak)	2483.500	-0.607	69.720	69.112	74.00	54.00	Pass
09 (Peak)	2484.900	-0.586	69.919	69.332	74.00	54.00	Pass
09 (Average)	2442.700	-0.862	88.631	87.769	--	--	--
09 (Average)	2483.500	-0.607	47.354	46.746	74.00	54.00	Pass

Figure Channel 07: Horizontal (Peak)

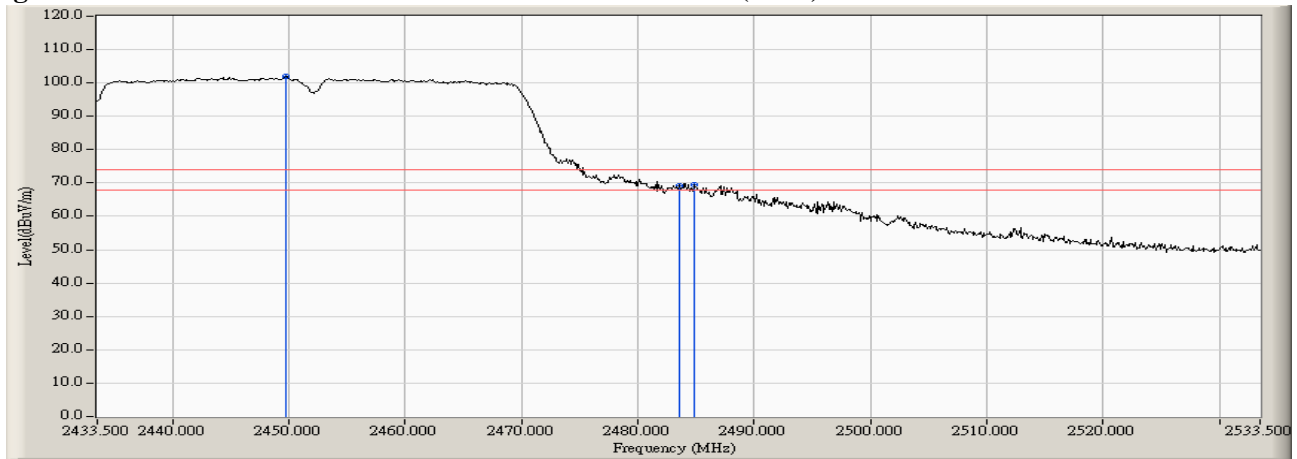
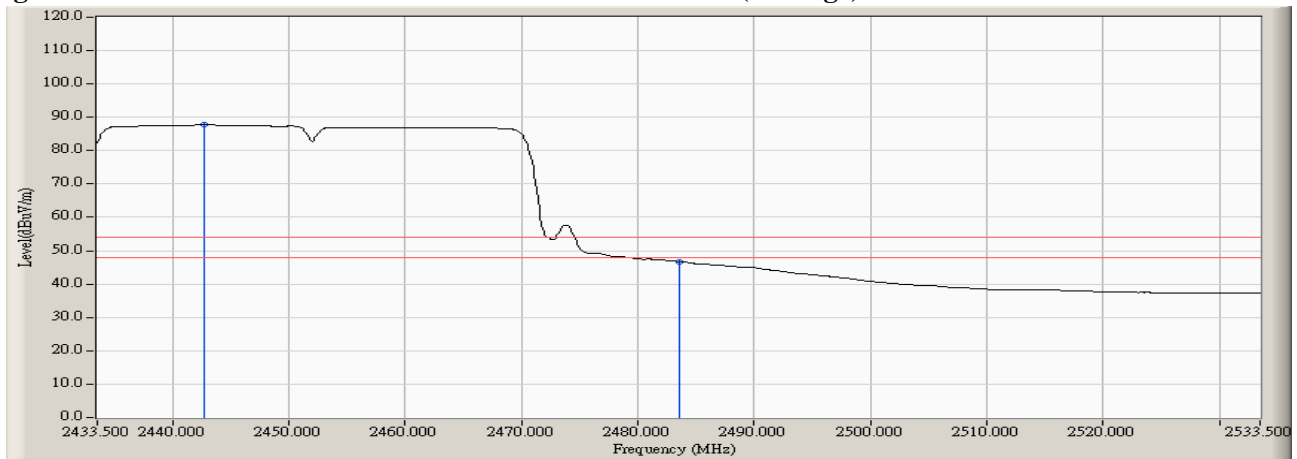


Figure Channel 07: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : 802.11b/g/n RTL8192EE Combo module
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 4 MIMO: Transmit - 802.11n-40BW_30Mbps(2.4G Band)

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
09 (Peak)	2442.200	-0.856	97.281	96.425	--	--	--
09 (Peak)	2483.500	-0.607	58.133	57.525	74.00	54.00	Pass
09 (Peak)	2484.100	-0.599	58.987	58.388	74.00	54.00	Pass
09 (Average)	2465.100	-0.887	84.885	83.999	--	--	--
09 (Average)	2483.500	-0.607	45.410	44.802	74.00	54.00	Pass

Figure Channel 07: Vertical (Peak)

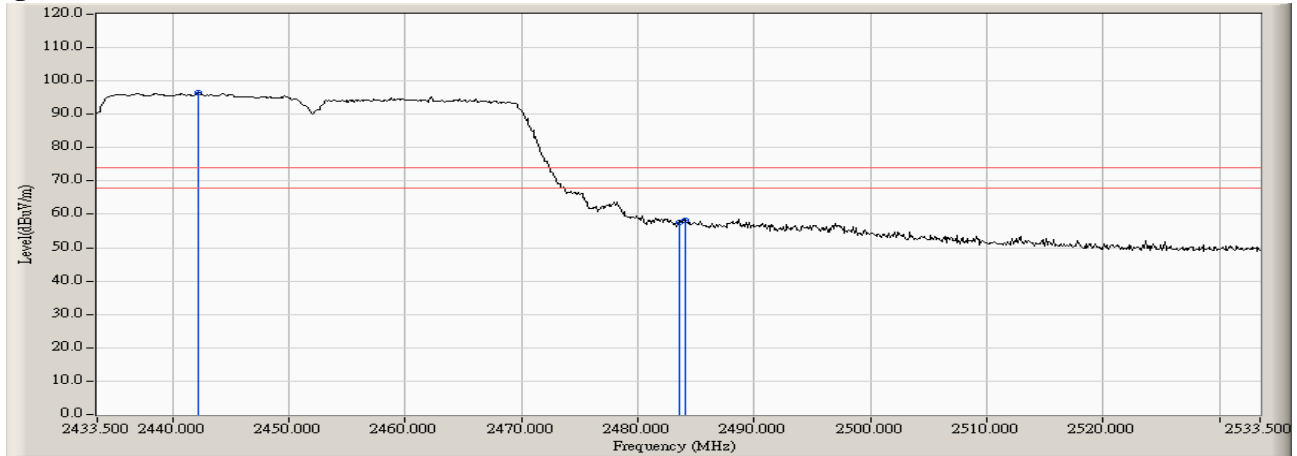
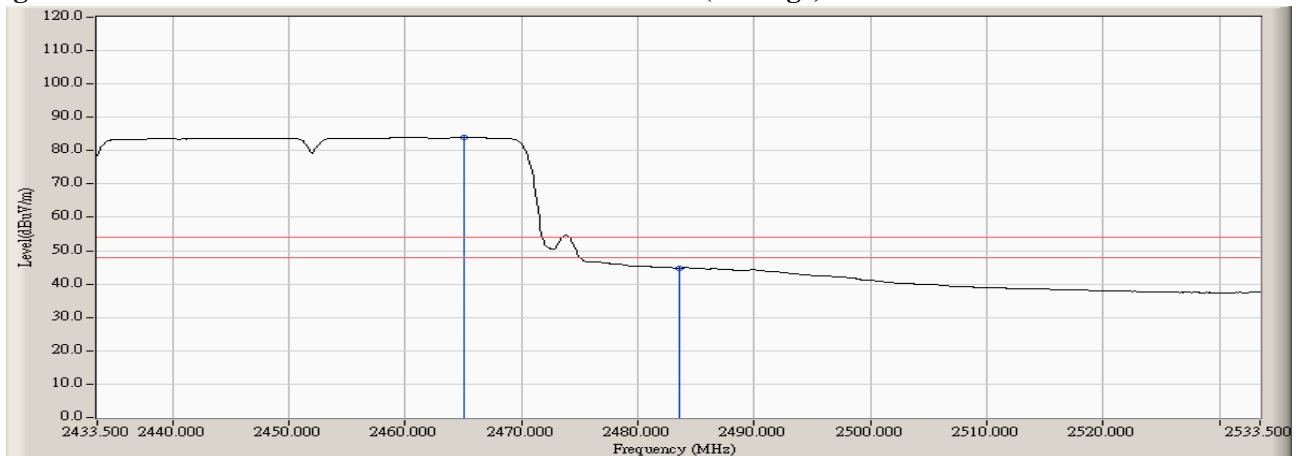


Figure Channel 07: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

5. EMI Reduction Method During Compliance Testing

No modification was made during testing.