

FCC 47 CFR PART 15 SUBPART C

Product Type : Handheld Computer

Applicant : LXE Inc

Address : 125 Technology Parkway, Norcross, Georgia, United States
30092-9200

Trade Name : Marathon

Model Number : FX1

Test Specification : FCC 47 CFR PART 15 SUBPART C: Oct., 2010
Canada RSS-210 ISSUE 8: Dec., 2010
Canada RSS-Gen ISSUE 3: Dec., 2010
ANSI C63.4-2009

Application Purpose: : Class II Permissive Change

Receive Date : Sep. 16, 2011

Issue Date : Apr. 05, 2012

Issue by

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Taiwan Accreditation Foundation accreditation number: 1330

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Revision History

Rev.	Issue Date	Revisions	Revised By
00	Apr. 05, 2012	Initial Issue	

Verification of Compliance

Issued Date: 04/05/2012

Product Type : Handheld Computer
Applicant : LXE Inc
Address : 125 Technology Parkway, Norcross, Georgia, United States
30092-9200

Trade Name : Marathon
Model Number : FX1
FCC ID : KDZLXE-FX1
IC : 1995B-LXEFX1
EUT Rated Voltage : DC 19V, 3.42A
Test Voltage : 120 Vac / 60 Hz
Applicable : FCC 47 CFR PART 15 SUBPART C: Oct., 2010
Standard : Canada RSS-210 ISSUE 8: Dec., 2010
Canada RSS-Gen ISSUE 3: Dec., 2010
ANSI C63.4-2009

Test Result : Complied
Application : Class II Permissive Change
Purpose :
Performing Lab. : A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade City,
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Taiwan Accreditation Foundation accreditation number:
1330
<http://www.atl-lab.com.tw/e-index.htm>



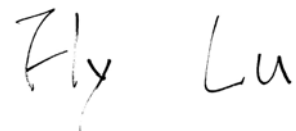
The above equipment was tested by A Test Lab Techno Corp. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2009 and the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247 .
The test results of this report relate only to the tested sample identified in this report.

Approved By



(Manager)

Reviewed By



(Testing Engineer)

(Fly Lu)

TABLE OF CONTENTS

1	General Information	5
2	EUT Description	6
3	Test Methodology.....	7
	3.1. Mode of Operation	7
	3.2. EUT Exercise Software.....	8
	3.3. Configuration of Test System Details.....	8
	3.4. Test Site Environment.....	9
4	Conducted Emission Measurement	10
	4.1. Limit	10
	4.2. Test Instruments.....	10
	4.3. Test Setup	10
	4.4. Test Procedure.....	11
	4.5. Test Result	12
5	Radiated Emission Measurement.....	14
	5.1. Limit	14
	5.2. Test Instruments.....	14
	5.3. Setup.....	15
	5.4. Test Procedure.....	16
	5.5. Test Result	18
6	Band Edges Measurement	33
	6.1. Limit	33
	6.2. Test Setup	33
	6.3. Test Instruments.....	33
	6.4. Test Procedure.....	34
	6.5. Test Result	35

1 General Information

1.1 Summary of Test Result

Standard		Item	Result	Remark
15.247	RSS-GEN			
15.207	7.2.2	AC Power Conducted Emission	PASS	-----
-----	6	Receiver Radiated Emissions	PASS	-----
Standard		Item	Result	Remark
15.247	RSS-210			
15.247(d)	A8.5	Transmitter Radiated Emissions	PASS	-----
15.247(b)(3)	A8.4	Max. Output Power	N/A	Reference original report
15.247(a)(2)	A8.2 (a)	6dB RF Bandwidth	N/A	Reference original report
15.247(e)	A8.2 (b)	Power Spectral Density	N/A	Reference original report
15.247(c)	A8.5	Out of Band Conducted Spurious Emission	N/A	Reference original report
15.247(d)	A8.5	Band Edge Measurement	PASS	-----
15.247(c)	A8.5	Occupied Bandwidth Measurement	N/A	Reference original report
15.203	-	Antenna Requirement	N/A	Reference original report

The test results of this report relate only to the tested sample(s) identified in this report. Manufacturer or whom it may concern should recognize the pass or fail of the test result.

Different Description

This is a C2PC application from Marathon, FX1. It is changed different CPU board circuitry, components and add single WWAN module to test in this report. Conducted and Radiated Emission are re-tested and other test results refer to the original test report number: FR130939AC and FR130939AI.

1.2 Measurement Uncertainty

Conducted Emission

The measurement uncertainty is evaluated as ± 2.24 dB.

Radiated Emission

The measurement uncertainty of 30 MHz - 1GHz is evaluated as ± 3.072 dB.

2 EUT Description

Product	:	Handheld Computer
Trade Name	:	Marathon
Model No.	:	FX1
Applicant	:	LXE Inc 125 Technology Parkway, Norcross, Georgia, United States 30092-9200
Manufacturer	:	NEXCOM International Co., Ltd. 5F,7F,8F,9F,10F&12F,No.63, Sec.1, Sanmin Rd., Banqiao Dist, New Taipei City, Taiwan
FCC ID	:	KDZLXE-FX1
IC	:	1995B-LXEFX1
Frequency Range	:	IEEE 802.11b / 802.11g / draft 802.11n Standard-20MHz_2.4GHz: 2412 ~ 2462 MHz draft 802.11n Wide-40MHz_2.4GHz: 2422 ~ 2452 MHz IEEE 802.11a / draft 802.11n Standard-20MHz U-NII Band IV: 5745 ~ 5825 MHz draft 802.11n Wide-40MHz U-NII Band IV: 5755 ~ 5815 MHz
Modulation Type	:	IEEE 802.11b: DSSS IEEE 802.11g: DSSS, OFDM draft 802.11n Standard-20MHz_2.4GHz: OFDM draft 802.11n Wide-40MHz_2.4GHz: OFDM IEEE 802.11a U-NII Band IV: OFDM draft 802.11n Standard-20MHz U-NII Band IV: OFDM draft 802.11n Wide-40MHz U-NII Band IV: OFDM
RF Output Power	:	IEEE 802.11b: 0.058 W / 17.62 dBm IEEE 802.11g: 0.080 W / 19.05 dBm draft 802.11n Standard-20MHz_2.4GHz: 0.065 W / 18.16 dBm draft 802.11n Wide-40MHz_2.4GHz: 0.065 W / 18.10 dBm IEEE 802.11a U-NII Band IV: 0.093 W / 19.66 dBm draft 802.11n Standard-20MHz U-NII Band IV: 0.074 W / 18.71 dBm draft 802.11n Wide-40MHz U-NII Band IV: 0.067 W / 18.23 dBm

3 Test Methodology

3.1. Mode of Operation

Decision of Test ATL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Normal Operation Mode
Mode 2: IEEE 802.11b Link Mode
Mode 3: IEEE 802.11g Link Mode
Mode 4: draft 802.11n Standard-20MHz_2.4GHz Link Mode
Mode 5: draft 802.11n Wide-40MHz_2.4GHz Link Mode
Mode 6: IEEE 802.11a U-NII Band IV Link Mode
Mode 7: draft 802.11n Standard-20MHz U-NII Band IV Link Mode
Mode 8: draft 802.11n Wide-40MHz U-NII Band IV Link Mode
Mode 9: Receiver Mode

Software used to control the EUT for staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz and power line conducted emissions below 30MHz, which worst case was in normal link mode only.

IEEE 802.11b mode:

Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 1Mbps data rate were chosen for full testing.

IEEE 802.11g mode:

Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 6Mbps data rate were chosen for full testing.

draft 802.11n Standard-20 MHz_2.4GHz Channel mode:

Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with MCS0 were chosen for full testing.

draft 802.11n Wide-40 MHz_2.4GHz Channel mode:

Channel Low (2422MHz), Channel Mid (2437MHz) and Channel High (2452MHz) with MCS0 were chosen for full testing.

IEEE 802.11a_UNII Band IV mode / 5745 ~ 5825MHz:

Channel Low (5745MHz), Channel Mid (5785MHz) and Channel High (5825MHz) with 64Mbps data rate were chosen for full testing.

draft 802.11n Standard-20 MHz_UNII Band IV Channel mode / 5745 ~ 5825MHz:

Channel Low (5745MHz), Channel Mid (5785MHz) and Channel High (5825MHz) with MCS7 were chosen for full testing.

draft 802.11n Wide-40 MHz_UNII Band IV Channel mode / 5745 ~ 5825MHz:

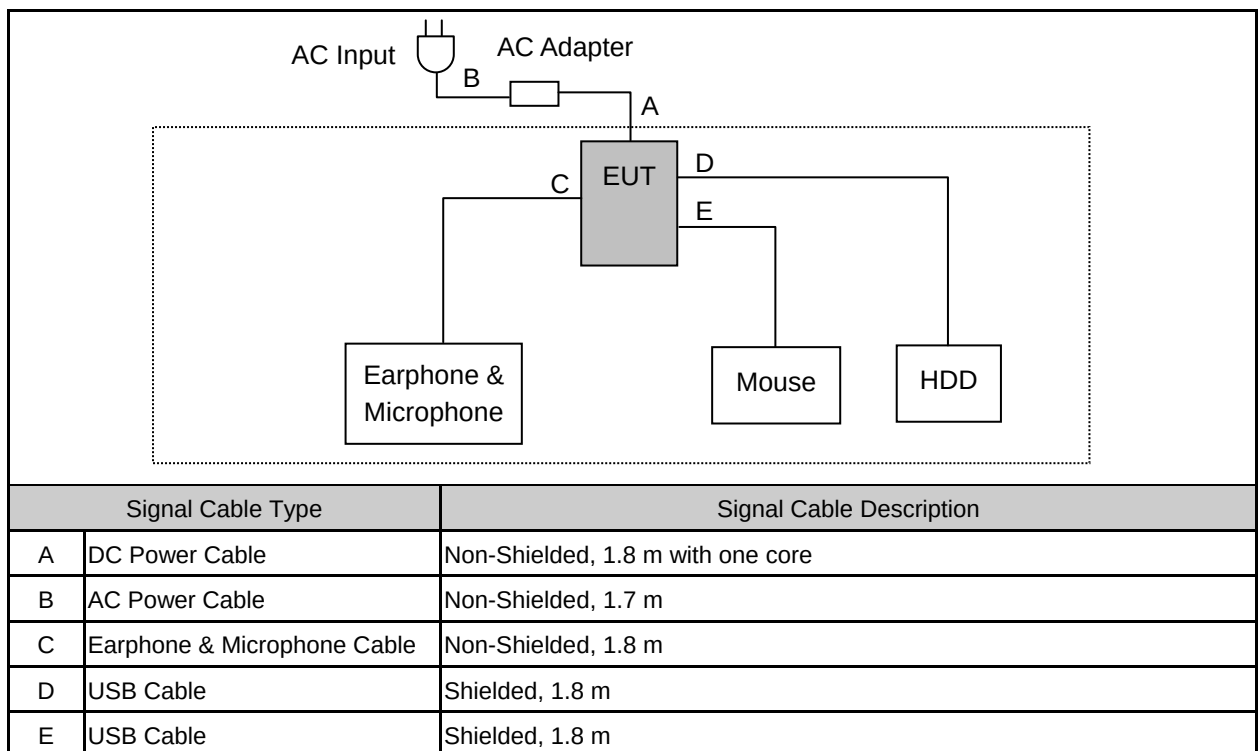
Channel Low (5755MHz) and Channel High (5795MHz) with MCS7 were chosen for full testing.

3.2. EUT Exercise Software

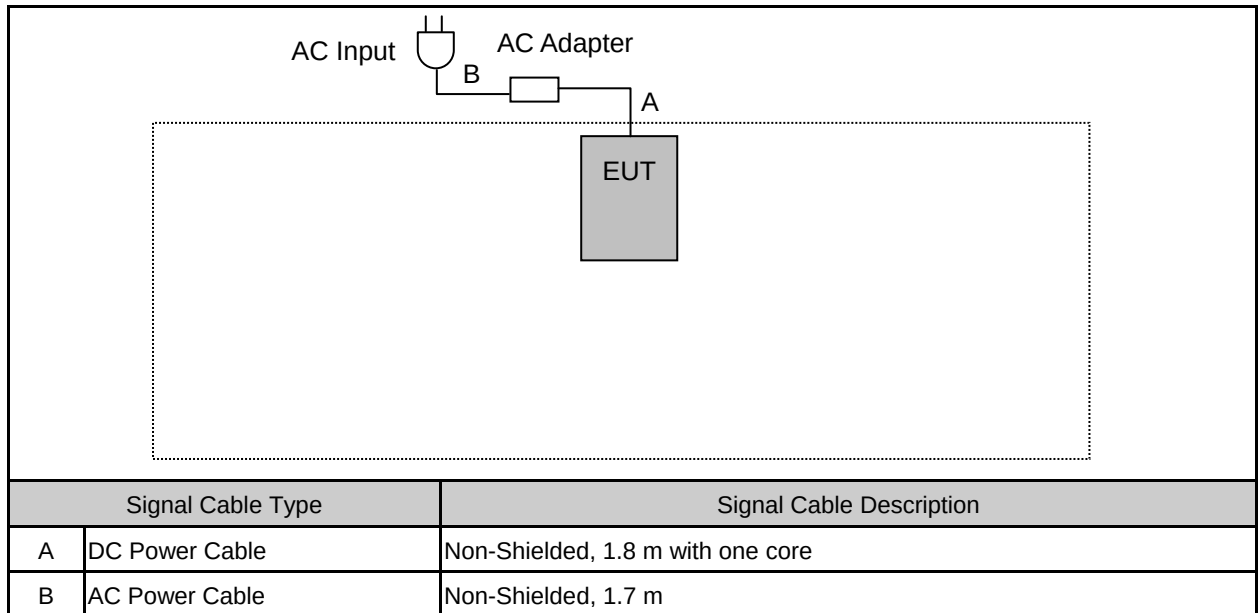
1.	Setup the EUT shown on 3.3.
2.	Turn on the power of all equipment.
3.	Turn on Wi-Fi function link to AP.
4.	EUT run test program.

3.3. Configuration of Test System Details

Conducted Emission



Radiated Emissions



3.4. Test Site Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	26
Humidity (%RH)	25-75	60
Barometric pressure (mbar)	860-1060	950

4 Conducted Emission Measurement

4.1. Limit

Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

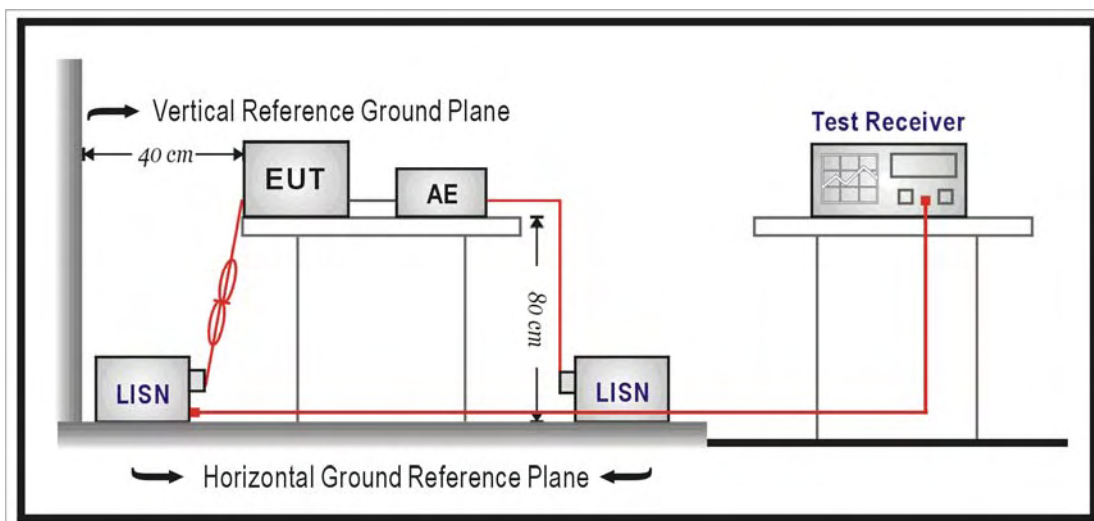
4.2. Test Instruments

Describe	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Test Receiver	R&S	ESCI	100367	06/30/2011	(1)
LISN	R&S	ENV216	101040	03/04/2011	(1)
LISN	R&S	ENV216	101041	03/04/2011	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

4.3. Test Setup



4.4. Test Procedure

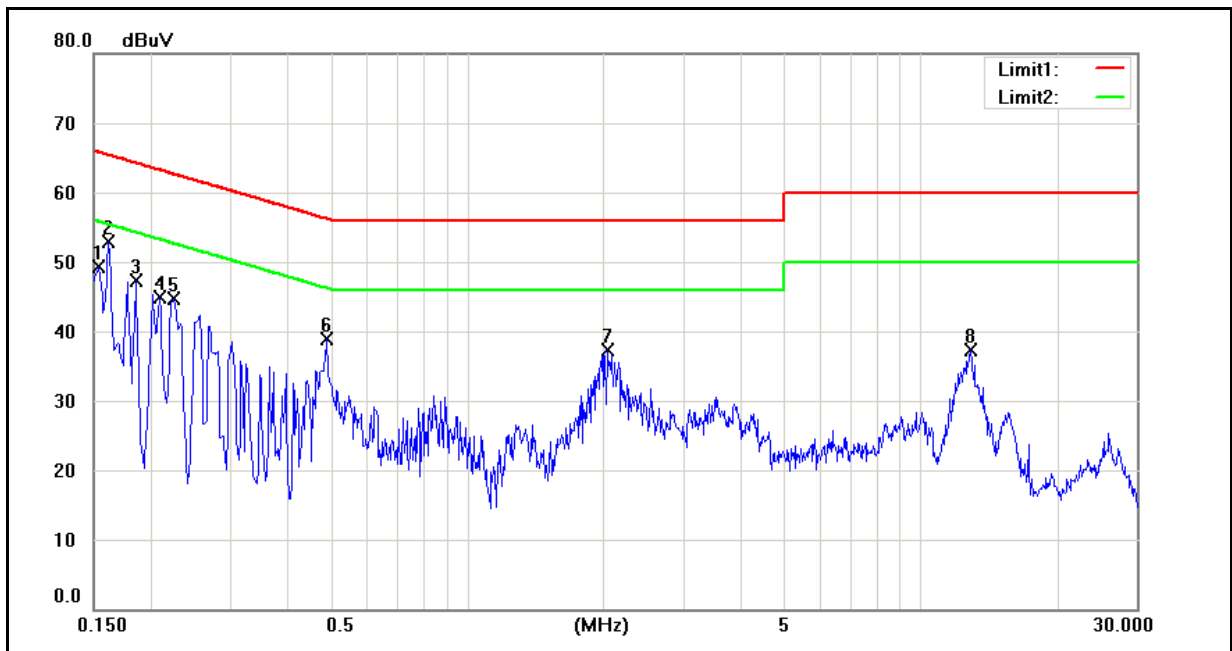
The power line conducted emission measurements were performed in a shielded enclosure. The EUT was assembled on a wooden table which is 80 centimeters high, was placed 40 centimeters from the back wall and at least 1 meter from the sidewall.

Power was fed to the EUT from the public utility power grid through a line filter and EMCO Model 3162/2 SH Line Impedance Stabilization Networks (LISN). The LISN housing, measuring instrumentation case, ground plane, etc., were electrically bonded together at the same RF potential. The Spectrum analyzer was connected to the AC line through an isolation transformer. The 50-ohm output of the LISN was connected to the spectrum analyzer directly. Conducted emission levels were in the CISPR quasi-peak detection mode. The analyzer's 6 dB bandwidth was set to 9 KHz. No post-detector video filter was used.

The spectrum was scanned from 150 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in paragraph 4.1.

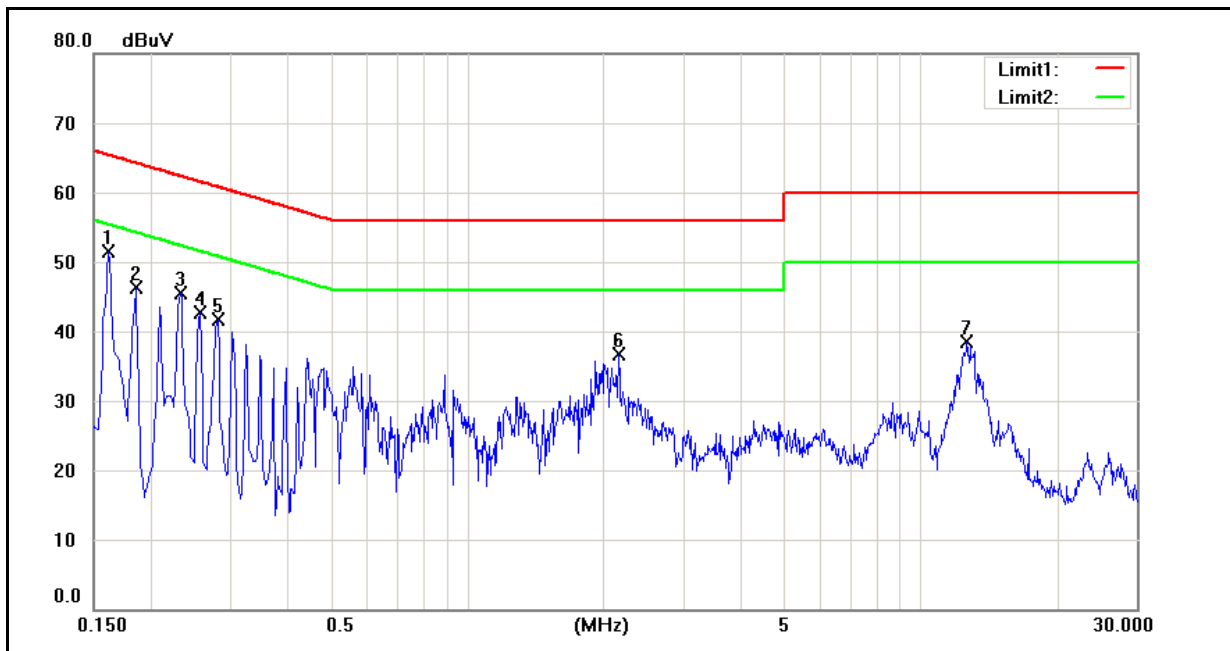
4.5. Test Result

Standard:	FCC Part 15C	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	FX1	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	09/19/2011
		Test By:	Fly Lu
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1540	38.72	21.30	10.07	48.79	31.37	65.78	55.78	-16.99	-24.41	Pass
2	0.1620	39.74	25.82	10.07	49.81	35.89	65.36	55.36	-15.55	-19.47	Pass
3	0.1860	29.87	7.49	10.06	39.93	17.55	64.21	54.21	-24.28	-36.66	Pass
4	0.2100	33.96	17.42	10.05	44.01	27.47	63.21	53.21	-19.20	-25.74	Pass
5	0.2260	32.47	17.21	10.04	42.51	27.25	62.60	52.60	-20.09	-25.35	Pass
6	0.4900	22.99	11.91	9.93	32.92	21.84	56.17	46.17	-23.25	-24.33	Pass
7	2.0380	23.57	14.14	9.68	33.25	23.82	56.00	46.00	-22.75	-22.18	Pass
8	12.9780	19.16	10.46	10.29	29.45	20.75	60.00	50.00	-30.55	-29.25	Pass

Standard:	FCC Part 15C	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	FX1	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	09/19/2011
		Test By:	Fly Lu
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1620	39.62	25.57	10.15	49.77	35.72	65.36	55.36	-15.59	-19.64	Pass
2	0.1860	30.18	7.40	10.14	40.32	17.54	64.21	54.21	-23.89	-36.67	Pass
3	0.2340	29.69	9.02	10.12	39.81	19.14	62.31	52.31	-22.50	-33.17	Pass
4	0.2580	26.69	9.54	10.11	36.80	19.65	61.50	51.50	-24.70	-31.85	Pass
5	0.2820	26.41	12.70	10.10	36.51	22.80	60.76	50.76	-24.25	-27.96	Pass
6	2.1660	21.51	11.06	9.76	31.27	20.82	56.00	46.00	-24.73	-25.18	Pass
7	12.6660	21.67	13.19	10.36	32.03	23.55	60.00	50.00	-27.97	-26.45	Pass

5 Radiated Emission Measurement

5.1. Limit

Frequency Range (MHz)	Peak (dBuV)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960	54

5.2. Test Instruments

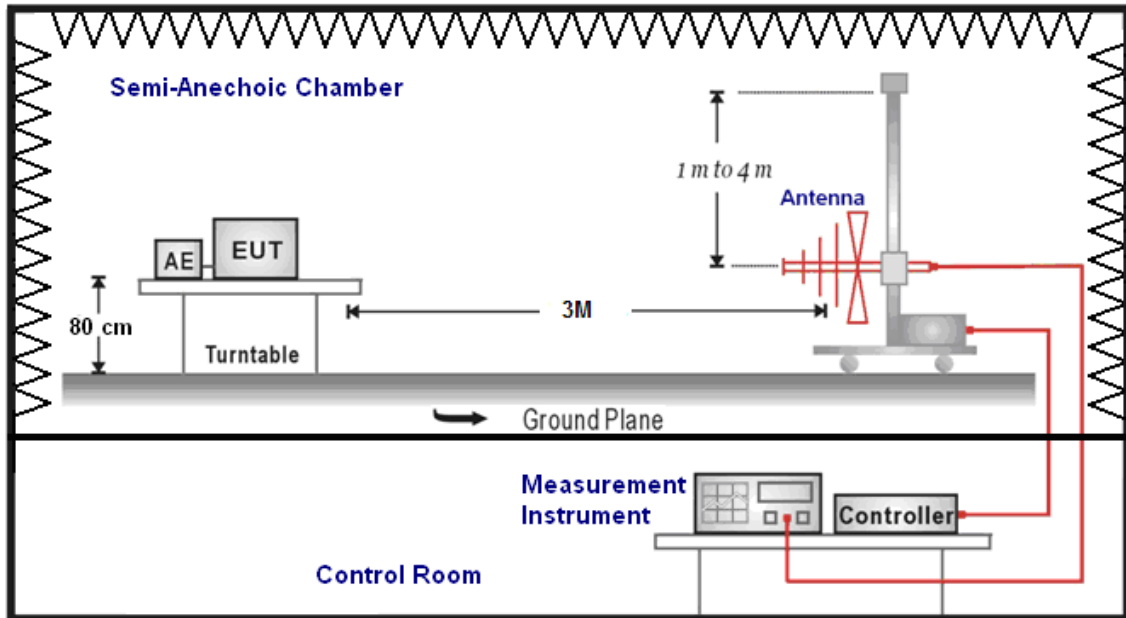
3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	06/16/2011	(1)
Amplifier	Mini-Circuits	ZKL-1R5+	N/A	05/30/2011	(1)
Amplifier	Mini-Circuits	ZVA-213-S+	N/A	05/30/2011	(1)
RF Pre-selector	Agilent	N9039A	MY46520255	05/16/2011	(1)
Double-Ridged Waveguide Horn	ETS-Lindgren	3117	00128055	08/25/2011	(1)
Trilog-Broadband Antenna	Schwarzbeck Mess-Elektronik	SB AC VULB	9168-419	05/10/2011	(1)
Test Site	ATL	TE09	TE09	05/13/2011	(1)

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

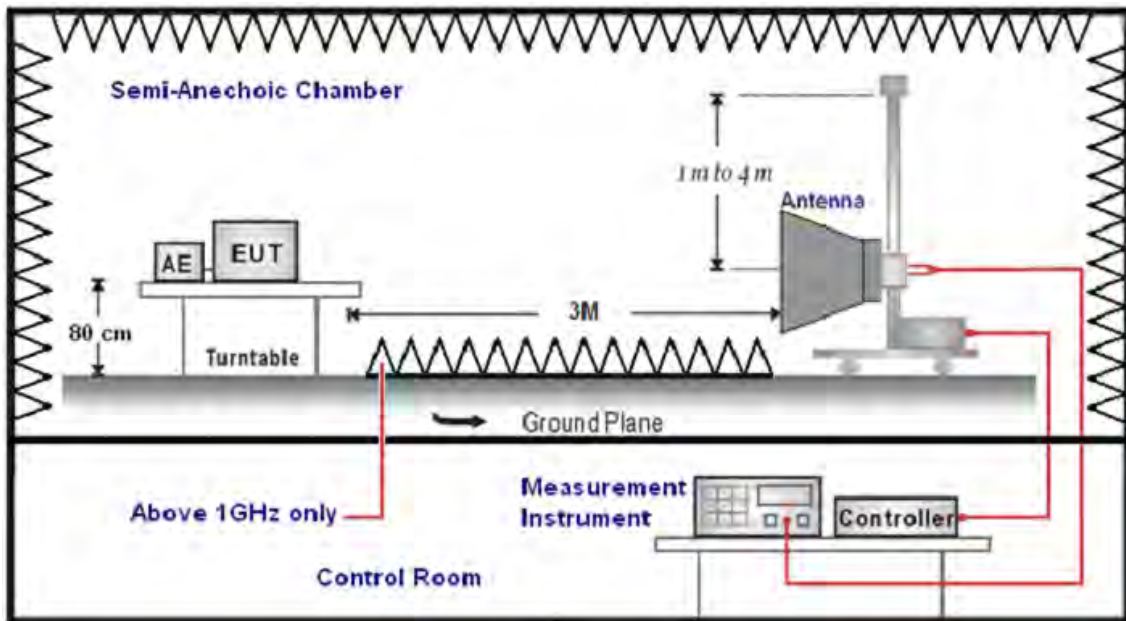
NOTE: N.C.R. = No Calibration Request.

5.3. Setup

Below 1GHz



Above 1GHz



5.4. Test Procedure

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 9 kHz to 26.5 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

A nonconductive material surrounded the EUT to supporting the EUT for standing on three orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Biconilog Antenna (model VULB9163) at 3 Meter and the SCHWARZBECK Double Ridged Guide Antenna (model BBHA9120D&9170) was used in frequencies 1 – 26.5 GHz at a distance of 1 meter. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20dB/decade).

For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts pre meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro volts per meter (dBuV/m).

The actual field intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

(1) $\text{Amplitude (dBuV/m)} = \text{FI (dBuV)} + \text{AF (dBuV)} + \text{CL (dBuV)} - \text{Gain (dB)}$

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

(2) $\text{Actual Amplitude (dBuV/m)} = \text{Amplitude (dBuV)} - \text{Dis(dB)}$

The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:

(a) For fundamental frequency : Transmitter Output < +30dBm

(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

5.5. Test Result

Below 1GHz

Standard:		FCC Part 15C			Test Distance:		3m	
Test item:		Radiated Emission			Power:		AC 120V/60Hz	
Model Number:		FX1			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Mode:		Mode 1			Date:		03/25/2012	
					Test By:		Fly Lu	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V	
233.0000	43.10	-12.51	30.59	46.00	-15.41	QP	H	
332.0000	40.93	-9.43	31.50	46.00	-14.50	QP	H	
664.0000	31.55	-3.96	27.59	46.00	-18.41	QP	H	
697.0000	34.99	-3.44	31.55	46.00	-14.45	QP	H	
797.0000	32.32	-1.60	30.72	46.00	-15.28	QP	H	
863.5000	36.15	-0.66	35.49	46.00	-10.51	QP	H	
66.5000	44.23	-15.00	29.23	40.00	-10.77	QP	V	
99.5000	46.16	-13.76	32.40	43.50	-11.10	QP	V	
199.0000	39.60	-14.01	25.59	43.50	-17.91	QP	V	
498.0000	34.58	-6.94	27.64	46.00	-18.36	QP	V	
597.5000	32.60	-5.01	27.59	46.00	-18.41	QP	V	
797.0000	31.09	-1.60	29.49	46.00	-16.51	QP	V	

Note: No emission found between lowest internal used/generated frequencies to 30MHz (9 kHz ~ 30 MHz).

Above 1GHz

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	FX1			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	2			Date:	03/25/2012		
Frequency:	2412MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3240.000	39.15	2.73	41.88	74.00	-32.12	peak	H
4927.000	39.59	8.28	47.87	74.00	-26.13	peak	H
7174.000	34.66	15.24	49.90	74.00	-24.10	peak	H
4339.000	35.73	6.43	42.16	74.00	-31.84	peak	V
5746.000	34.67	10.42	45.09	74.00	-28.91	peak	V
6691.000	34.39	13.71	48.10	74.00	-25.90	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	FX1			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	2			Date:	03/25/2012		
Frequency:	2437MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3835.000	37.44	4.67	42.11	74.00	-31.89	peak	H
4874.000	44.60	8.11	52.71	74.00	-21.29	peak	H
4874.000	41.88	8.11	49.99	54.00	-4.01	AVG	H
7195.000	34.54	15.30	49.84	74.00	-24.16	peak	H
3450.000	39.43	3.20	42.63	74.00	-31.37	peak	V
6551.000	34.53	13.26	47.79	74.00	-26.21	peak	V
7265.000	34.38	15.51	49.89	74.00	-24.11	peak	V

Standard:		FCC Part 15C		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		FX1		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Mode:		2		Date:		03/25/2012	
Frequency:		2462MHz		Test By:		Fly Lu	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3891.000	37.74	4.89	42.63	74.00	-31.37	peak	H
6103.000	34.85	11.32	46.17	74.00	-27.83	peak	H
7209.000	34.35	15.34	49.69	74.00	-24.31	peak	H
3247.000	37.47	2.75	40.22	74.00	-33.78	peak	V
6194.000	35.25	11.72	46.97	74.00	-27.03	peak	V
7069.000	34.51	14.92	49.43	74.00	-24.57	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	FX1			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	3			Date:	03/25/2012		
Frequency:	2412MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2939.000	38.21	1.98	40.19	74.00	-33.81	peak	H
4874.000	41.01	8.11	49.12	74.00	-24.88	peak	H
7657.000	34.11	16.45	50.56	74.00	-23.44	peak	H
3310.000	38.04	2.89	40.93	74.00	-33.07	peak	V
5571.000	34.79	10.11	44.90	74.00	-29.10	peak	V
6467.000	35.52	12.94	48.46	74.00	-25.54	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	FX1			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	3			Date:	03/25/2012		
Frequency:	2437MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3135.000	38.20	2.49	40.69	74.00	-33.31	peak	H
5529.000	34.79	10.05	44.84	74.00	-29.16	peak	H
6950.000	34.42	14.55	48.97	74.00	-25.03	peak	H
3611.000	37.53	3.76	41.29	74.00	-32.71	peak	V
5151.000	35.60	8.95	44.55	74.00	-29.45	peak	V
6411.000	35.73	12.69	48.42	74.00	-25.58	peak	V

Standard:		FCC Part 15C		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		FX1		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Mode:		3		Date:		03/25/2012	
Frequency:		2462MHz		Test By:		Fly Lu	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4038.000	36.28	5.45	41.73	74.00	-32.27	peak	H
6054.000	34.48	11.10	45.58	74.00	-28.42	peak	H
7055.000	34.75	14.88	49.63	74.00	-24.37	peak	H
3639.000	36.74	3.87	40.61	74.00	-33.39	peak	V
5011.000	35.51	8.54	44.05	74.00	-29.95	peak	V
6978.000	35.34	14.64	49.98	74.00	-24.02	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	FX1			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	4			Date:	03/25/2012		
Frequency:	2412MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3765.000	37.78	4.37	42.15	74.00	-31.85	peak	H
5494.000	34.65	9.98	44.63	74.00	-29.37	peak	H
7230.000	34.42	15.42	49.84	74.00	-24.16	peak	H
3954.000	36.87	5.15	42.02	74.00	-31.98	peak	V
5753.000	35.05	10.42	45.47	74.00	-28.53	peak	V
6845.000	34.76	14.21	48.97	74.00	-25.03	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	FX1			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	4			Date:	03/25/2012		
Frequency:	2437MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4794.000	35.70	7.87	43.57	74.00	-30.43	peak	H
6495.000	34.44	13.06	47.50	74.00	-26.50	peak	H
7202.000	33.40	15.32	48.72	74.00	-25.28	peak	H
4423.000	36.43	6.70	43.13	74.00	-30.87	peak	V
6047.000	34.62	11.07	45.69	74.00	-28.31	peak	V
7461.000	34.56	16.10	50.66	74.00	-23.34	peak	V

Standard:		FCC Part 15C			Test Distance:		3m
Test item:		Radiated Emission			Power:		AC 120V/60Hz
Model Number:		FX1			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH
Mode:		4			Date:		03/25/2012
Frequency:		2462MHz			Test By:		Fly Lu
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4171.000	36.57	5.89	42.46	74.00	-31.54	peak	H
6026.000	34.26	10.97	45.23	74.00	-28.77	peak	H
7258.000	34.27	15.50	49.77	74.00	-24.23	peak	H
3730.000	37.50	4.24	41.74	74.00	-32.26	peak	V
5795.000	35.10	10.50	45.60	74.00	-28.40	peak	V
6985.000	36.28	14.66	50.94	74.00	-23.06	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	FX1			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	5			Date:	03/25/2012		
Frequency:	2422MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4220.000	37.22	6.04	43.26	74.00	-30.74	peak	H
5865.000	35.33	10.62	45.95	74.00	-28.05	peak	H
6943.000	35.38	14.52	49.90	74.00	-24.10	peak	H
4241.000	38.67	6.10	44.77	74.00	-29.23	peak	V
4874.000	41.04	8.11	49.15	74.00	-24.85	peak	V
6292.000	36.48	12.15	48.63	74.00	-25.37	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	FX1			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	5			Date:	03/25/2012		
Frequency:	2437MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5599.000	35.30	10.16	45.46	74.00	-28.54	peak	H
7041.000	33.93	14.84	48.77	74.00	-25.23	peak	H
7629.000	33.91	16.40	50.31	74.00	-23.69	peak	H
3751.000	37.52	4.32	41.84	74.00	-32.16	peak	V
6285.000	34.63	12.13	46.76	74.00	-27.24	peak	V
7034.000	35.08	14.81	49.89	74.00	-24.11	peak	V

Standard:		FCC Part 15C		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		FX1		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Mode:		5		Date:		03/25/2012	
Frequency:		2452MHz		Test By:		Fly Lu	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3065.000	36.27	2.35	38.62	74.00	-35.38	peak	H
5263.000	33.88	9.28	43.16	74.00	-30.84	peak	H
6579.000	33.51	13.35	46.86	74.00	-27.14	peak	H
3226.000	36.74	2.71	39.45	74.00	-34.55	peak	V
5634.000	32.62	10.22	42.84	74.00	-31.16	peak	V
6943.000	32.70	14.52	47.22	74.00	-26.78	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	FX1			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	6			Date:	10/09/2011		
Frequency:	5745MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2991.000	37.40	2.16	39.56	74.00	-34.44	peak	H
4058.000	38.03	5.51	43.54	74.00	-30.46	peak	H
6775.000	35.64	13.99	49.63	74.00	-24.37	peak	H
3618.000	37.52	3.79	41.31	74.00	-32.69	peak	V
5598.000	35.01	10.16	45.17	74.00	-28.83	peak	V
7237.000	34.45	15.42	49.87	74.00	-24.13	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	FX1			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	6			Date:	10/09/2011		
Frequency:	5785MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2991.000	37.40	2.16	39.56	74.00	-34.44	peak	H
4058.000	38.03	5.51	43.54	74.00	-30.46	peak	H
6775.000	35.64	13.99	49.63	74.00	-24.37	peak	H
3618.000	37.52	3.79	41.31	74.00	-32.69	peak	V
5598.000	35.01	10.16	45.17	74.00	-28.83	peak	V
7237.000	34.45	15.42	49.87	74.00	-24.13	peak	V

Standard:		FCC Part 15C		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		FX1		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Mode:		6		Date:		10/09/2011	
Frequency:		5825MHz		Test By:		Fly Lu	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2991.000	37.40	2.16	39.56	74.00	-34.44	peak	H
4058.000	38.03	5.51	43.54	74.00	-30.46	peak	H
6775.000	35.64	13.99	49.63	74.00	-24.37	peak	H
3618.000	37.52	3.79	41.31	74.00	-32.69	peak	V
5598.000	35.01	10.16	45.17	74.00	-28.83	peak	V
7237.000	34.45	15.42	49.87	74.00	-24.13	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	FX1			Temp.(℃)/Hum.(%RH):	26(℃)/60%RH		
Mode:	7			Date:	10/09/2011		
Frequency:	5745MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2991.000	37.40	2.16	39.56	74.00	-34.44	peak	H
4058.000	38.03	5.51	43.54	74.00	-30.46	peak	H
6775.000	35.64	13.99	49.63	74.00	-24.37	peak	H
3618.000	37.52	3.79	41.31	74.00	-32.69	peak	V
5598.000	35.01	10.16	45.17	74.00	-28.83	peak	V
7237.000	34.45	15.42	49.87	74.00	-24.13	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	FX1			Temp.(℃)/Hum.(%RH):	26(℃)/60%RH		
Mode:	7			Date:	10/09/2011		
Frequency:	5785MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2991.000	37.40	2.16	39.56	74.00	-34.44	peak	H
4058.000	38.03	5.51	43.54	74.00	-30.46	peak	H
6775.000	35.64	13.99	49.63	74.00	-24.37	peak	H
3618.000	37.52	3.79	41.31	74.00	-32.69	peak	V
5598.000	35.01	10.16	45.17	74.00	-28.83	peak	V
7237.000	34.45	15.42	49.87	74.00	-24.13	peak	V

Standard:		FCC Part 15C		Test Distance:		3m	
Test item:		7		Power:		AC 120V/60Hz	
Model Number:		FX1		Temp.(℃)/Hum.(%RH):		26(℃)/60%RH	
Mode:		Mode 7		Date:		10/09/2011	
Frequency:		5825MHz		Test By:		Fly Lu	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2991.000	37.40	2.16	39.56	74.00	-34.44	peak	H
4058.000	38.03	5.51	43.54	74.00	-30.46	peak	H
6775.000	35.64	13.99	49.63	74.00	-24.37	peak	H
3618.000	37.52	3.79	41.31	74.00	-32.69	peak	V
5598.000	35.01	10.16	45.17	74.00	-28.83	peak	V
7237.000	34.45	15.42	49.87	74.00	-24.13	peak	V

Standard:		FCC Part 15C		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		FX1		Temp.(℃)/Hum.(%RH):		26(℃)/60%RH	
Mode:		8		Date:		10/09/2011	
Frequency:		5755MHz		Test By:		Fly Lu	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2991.000	37.40	2.16	39.56	74.00	-34.44	peak	H
4058.000	38.03	5.51	43.54	74.00	-30.46	peak	H
6775.000	35.64	13.99	49.63	74.00	-24.37	peak	H
3618.000	37.52	3.79	41.31	74.00	-32.69	peak	V
5598.000	35.01	10.16	45.17	74.00	-28.83	peak	V
7237.000	34.45	15.42	49.87	74.00	-24.13	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	FX1			Temp.(℃)/Hum.(%RH):	26(℃)/60%RH		
Mode:	8			Date:	10/09/2011		
Frequency:	5795MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2991.000	37.40	2.16	39.56	74.00	-34.44	peak	H
4058.000	38.03	5.51	43.54	74.00	-30.46	peak	H
6775.000	35.64	13.99	49.63	74.00	-24.37	peak	H
3618.000	37.52	3.79	41.31	74.00	-32.69	peak	V
5598.000	35.01	10.16	45.17	74.00	-28.83	peak	V
7237.000	34.45	15.42	49.87	74.00	-24.13	peak	V

Standard:	FCC Part 15C				Test Distance:	3m		
Test item:	Radiated Emission				Power:	AC 120V/60Hz		
Model Number:	FX1				Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	9				Date:	03/25/2012		
Modulation:	IEEE 802.11b				Test By:	Fly Lu		
Frequency:	2437MHz							
Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Peak Limit (dBuV/m)	AVG. Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3345.000	39.13	2.97	42.10	74.00	54.00	-31.90	peak	H
4824.000	42.18	7.95	50.13	74.00	54.00	-23.87	peak	H
6502.000	35.73	13.09	48.82	74.00	54.00	-25.18	peak	H
3737.000	38.07	4.27	42.34	74.00	54.00	-31.66	peak	V
5046.000	36.72	8.64	45.36	74.00	54.00	-28.64	peak	V
7013.000	35.61	14.76	50.37	74.00	54.00	-23.63	peak	V

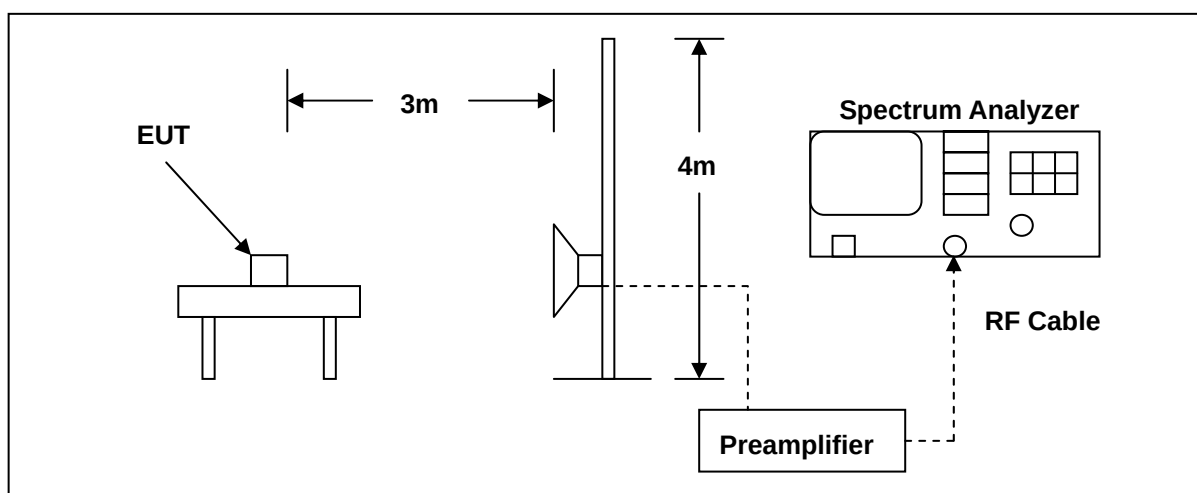
Standard:	FCC Part 15C				Test Distance:	3m		
Test item:	Radiated Emission				Power:	AC 120V/60Hz		
Model Number:	FX1				Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	9				Date:	10/09/2011		
Modulation:	IEEE 802.11a UNII band IV				Test By:	Fly Lu		
Frequency:	5785MHz							
Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Peak Limit (dBuV/m)	AVG. Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
1396.000	43.74	-4.38	39.36	74.00	54.00	-34.64	peak	H
4003.000	37.51	5.34	42.85	74.00	54.00	-31.15	peak	H
6104.000	35.23	11.32	46.55	74.00	54.00	-27.45	peak	H
4234.000	38.71	6.08	44.79	74.00	54.00	-29.21	peak	V
4696.000	36.73	7.55	44.28	74.00	54.00	-29.72	peak	V
5488.000	35.98	9.95	45.93	74.00	54.00	-28.07	peak	V

6 Band Edges Measurement

6.1. Limit

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

6.2. Test Setup



6.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	06/16/2011	(1)
Amplifier	Mini-Circuits	ZKL-1R5+	N/A	05/30/2011	(1)
Amplifier	Mini-Circuits	ZVA-213-S+	N/A	05/30/2011	(1)
RF Pre-selector	Agilent	N9039A	MY46520255	05/16/2011	(1)
Double-Ridged Waveguide Horn	ETS-Lindgren	3117	00128055	08/25/2011	(1)
Test Site	ATL	TE09	TE09	05/13/2011	(1)

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

6.4. Test Procedure

The EUT was setup to ANSI C63.4, 2009; tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The emissions on the harmonics frequencies, the limits, and the margin of compliance are presented. These tests were made when the transmitter was in full radiated power. The additional test was performed to show compliance with the requirement at the band-edge frequency 2483.5 MHz and up to 2500 MHz and at 2390.0 MHz.

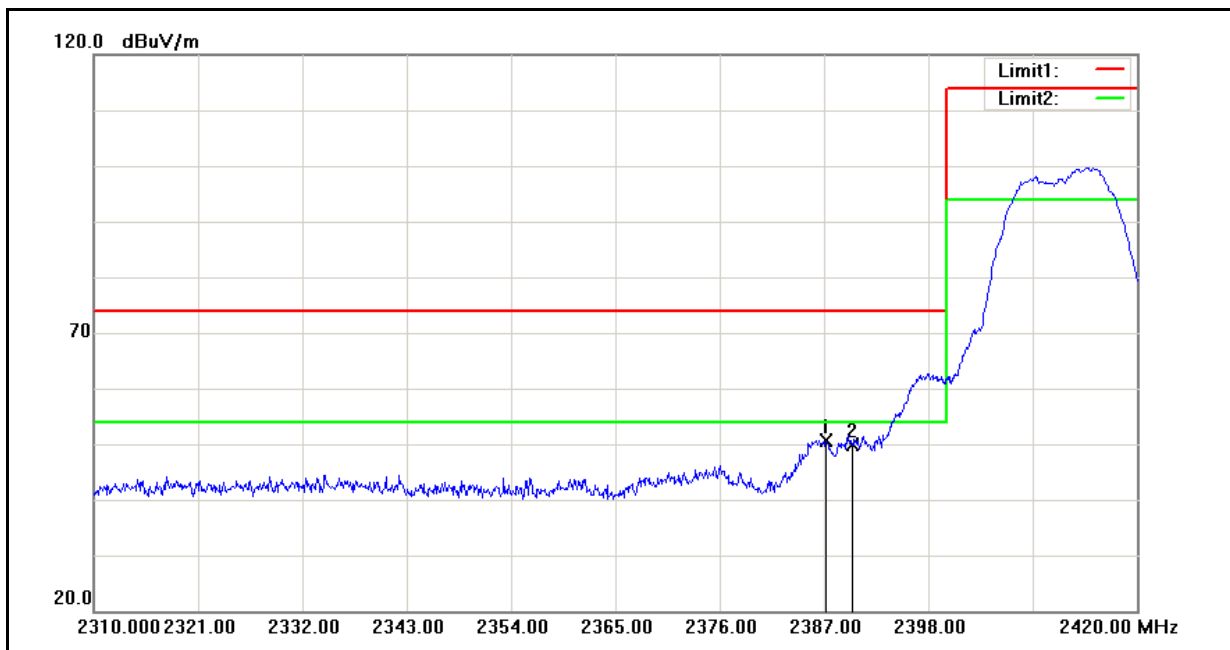
The transmitter was configured with the worst case antenna and setup to transmit at the highest channel. Then the field strength was measured at 2483.5 MHz.

The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel. Then the field strength was measured at 2390.0 MHz. These tests were performed at 4 different bit rates.

For measurements the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

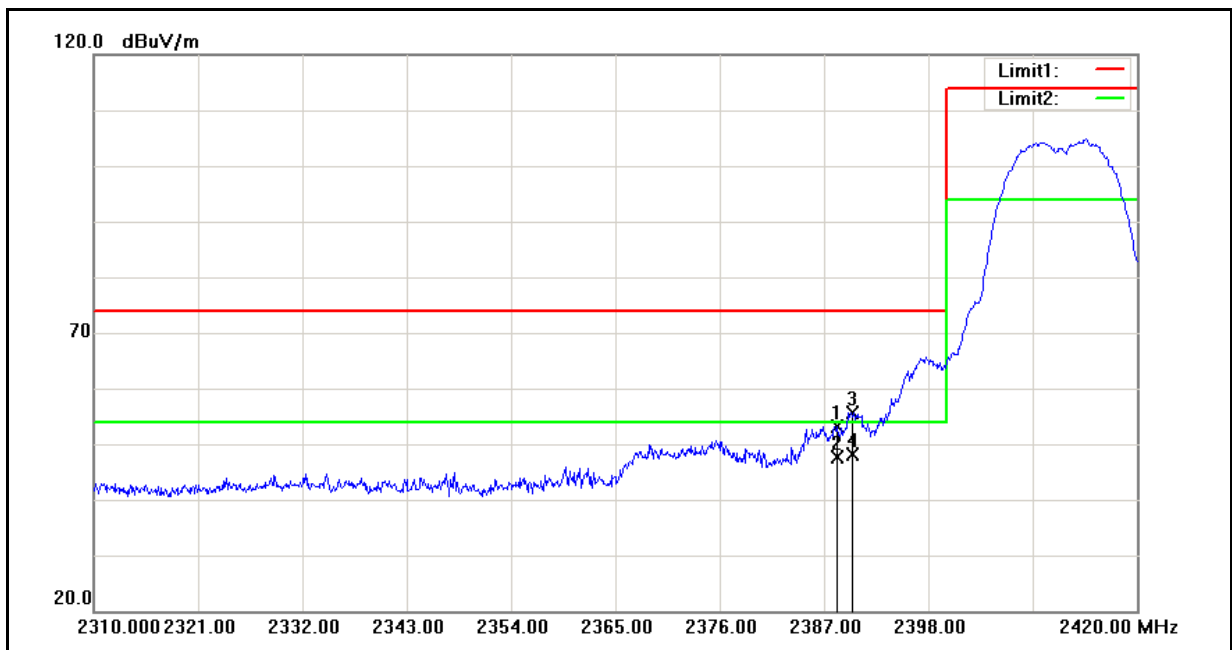
6.5. Test Result

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	FX1	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	2	Date:	03/23/2012
Frequency:	2412 MHz	Test By:	Fly Lu
Ant.Polar.:	Horizontal		



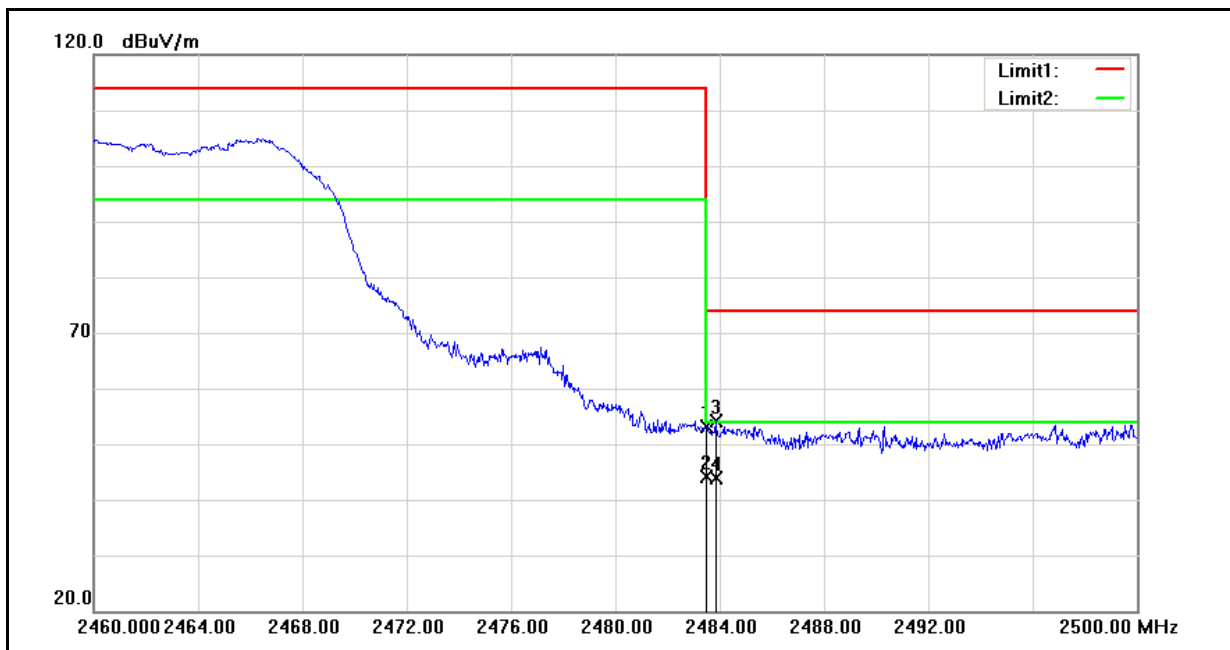
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.220	50.69	-0.07	50.62	74.00	-23.38	peak
2	2390.000	49.87	-0.06	49.81	74.00	-24.19	peak

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	FX1	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	2	Date:	03/23/2012
Frequency:	2412 MHz	Test By:	Fly Lu
Ant.Polar.:	Vertical		



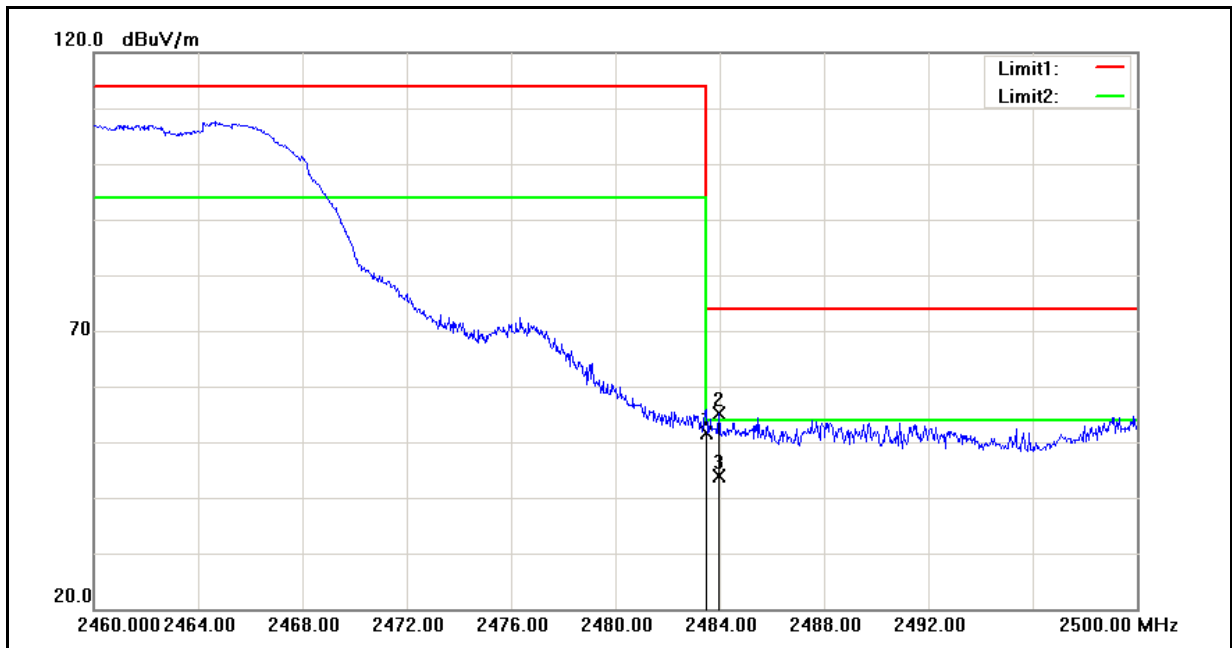
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.320	53.25	-0.07	53.18	74.00	-20.82	peak
2	2388.320	47.76	-0.07	47.69	54.00	-6.31	AVG
3	2390.000	55.64	-0.06	55.58	74.00	-18.42	peak
4	2390.000	48.21	-0.06	48.15	54.00	-5.85	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	FX1	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	2	Date:	03/23/2012
Frequency:	2462 MHz	Test By:	Fly Lu
Ant.Polar.:	Horizontal		



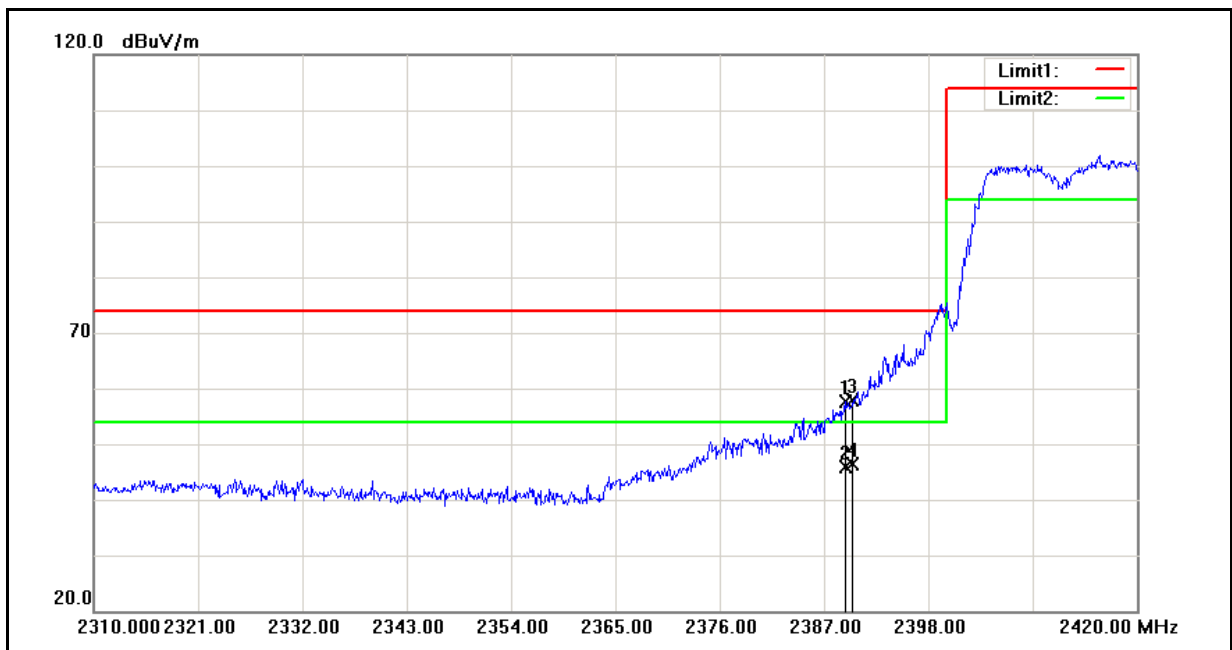
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	52.78	0.35	53.13	74.00	-20.87	peak
2	2483.500	43.83	0.35	44.18	54.00	-9.82	AVG
3	2483.840	53.86	0.35	54.21	74.00	-19.79	peak
4	2483.840	43.54	0.35	43.89	54.00	-10.11	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	FX1	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	2	Date:	03/23/2012
Frequency:	2462 MHz	Test By:	Fly Lu
Ant.Polar.:	Vertical		



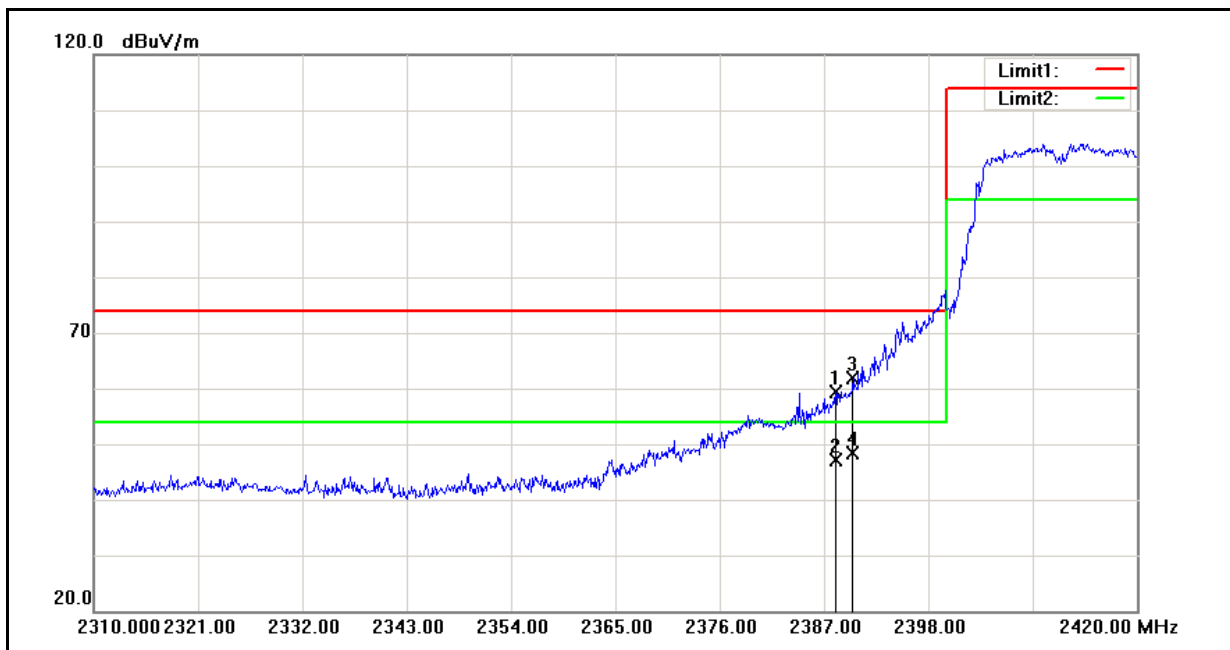
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	51.30	0.35	51.65	74.00	-22.35	peak
2	2483.960	54.89	0.35	55.24	74.00	-18.76	peak
3	2483.960	43.65	0.35	44.00	54.00	-10.00	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	FX1	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	3	Date:	03/23/2012
Frequency:	2412 MHz	Test By:	Fly Lu
Ant.Polar.:	Horizontal		



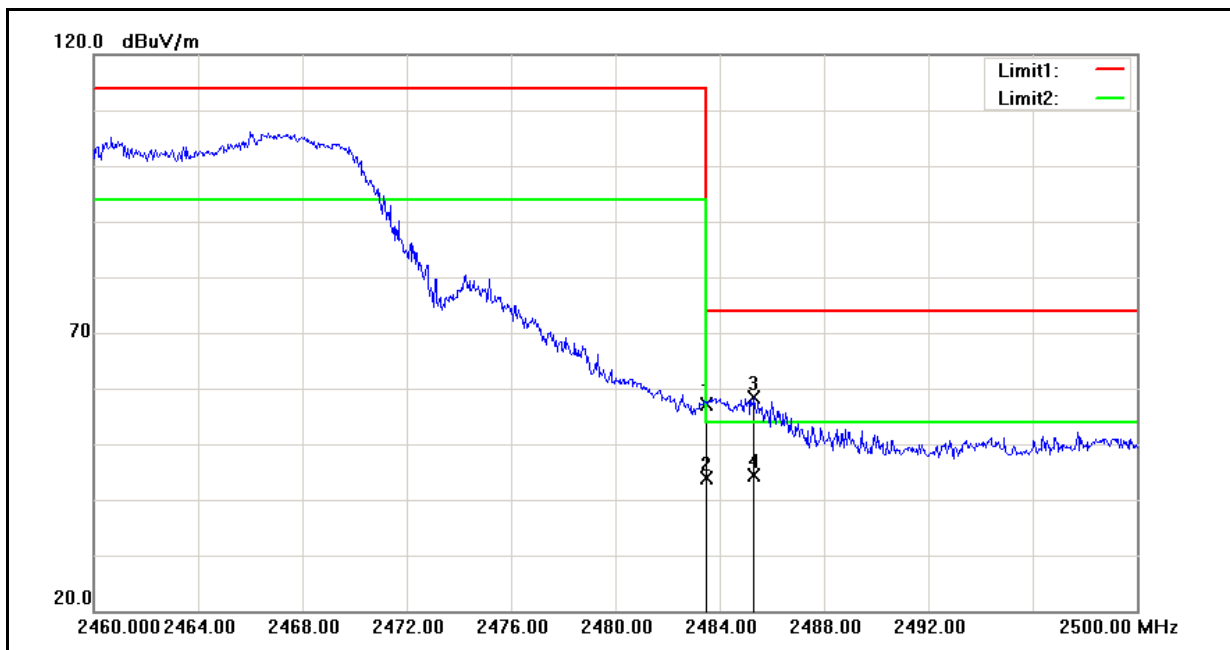
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.200	57.61	-0.06	57.55	74.00	-16.45	peak
2	2389.200	45.94	-0.06	45.88	54.00	-8.12	AVG
3	2390.000	57.84	-0.06	57.78	74.00	-16.22	peak
4	2390.000	46.54	-0.06	46.48	54.00	-7.52	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	FX1	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	3	Date:	03/23/2012
Frequency:	2412 MHz	Test By:	Fly Lu
Ant.Polar.:	Vertical		



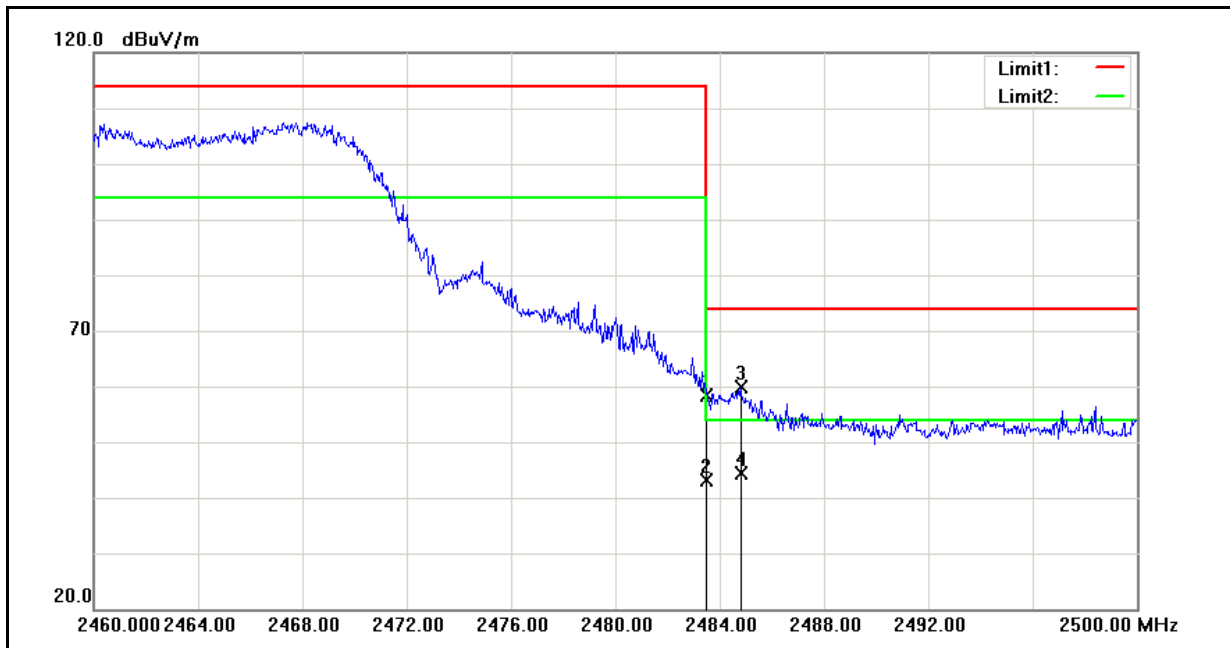
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.210	59.44	-0.07	59.37	74.00	-14.63	peak
2	2388.210	47.19	-0.07	47.12	54.00	-6.88	AVG
3	2390.000	61.89	-0.06	61.83	74.00	-12.17	peak
4	2390.000	48.34	-0.06	48.28	54.00	-5.72	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	FX1	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	3	Date:	03/23/2012
Frequency:	2462 MHz	Test By:	Fly Lu
Ant.Polar.:	Horizontal		



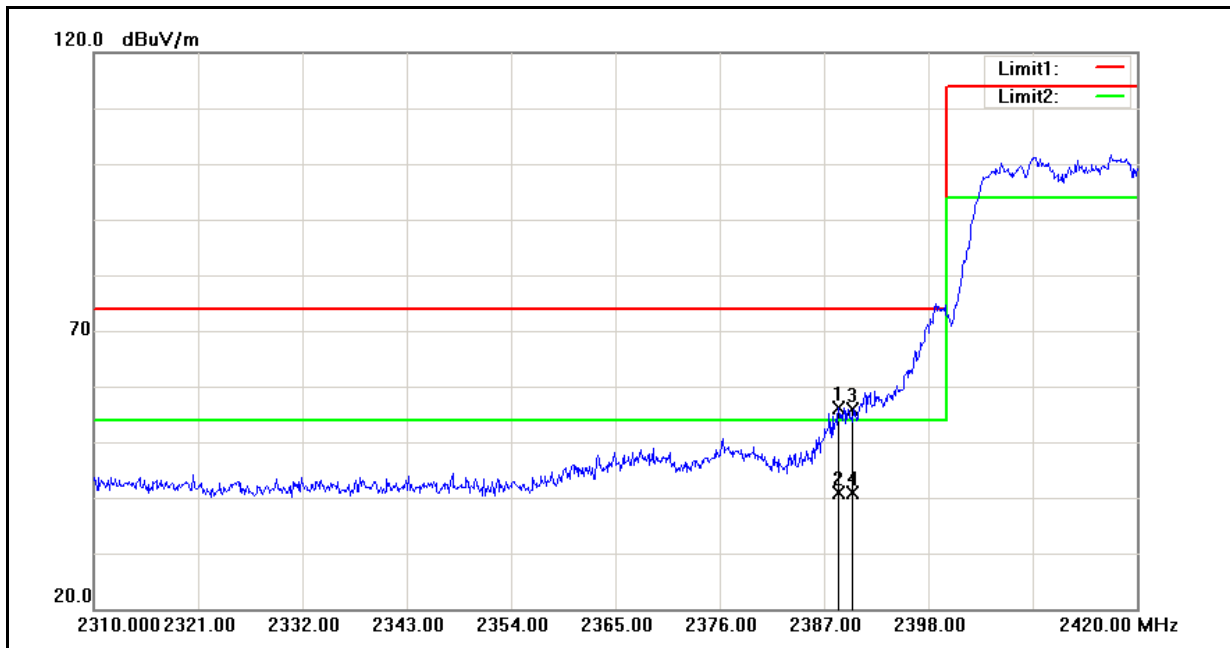
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	56.76	0.35	57.11	74.00	-16.89	peak
2	2483.500	43.54	0.35	43.89	54.00	-10.11	AVG
3	2485.320	58.02	0.36	58.38	74.00	-15.62	peak
4	2485.320	43.92	0.36	44.28	54.00	-9.72	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	FX1	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	3	Date:	03/23/2012
Frequency:	2462 MHz	Test By:	Fly Lu
Ant.Polar.:	Vertical		



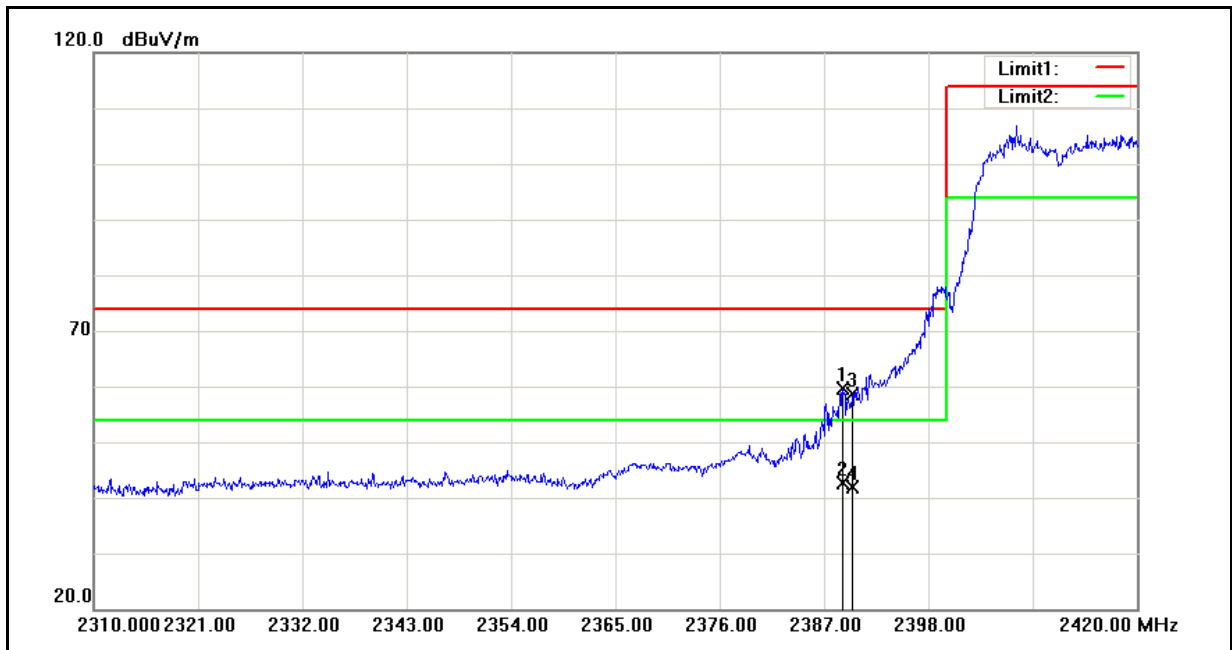
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	57.95	0.35	58.30	74.00	-15.70	peak
2	2483.500	42.83	0.35	43.18	54.00	-10.82	AVG
3	2484.800	59.46	0.35	59.81	74.00	-14.19	peak
4	2484.800	43.94	0.35	44.29	54.00	-9.71	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	FX1	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4	Date:	03/23/2012
Frequency:	2412 MHz	Test By:	Fly Lu
Ant.Polar.:	Horizontal		



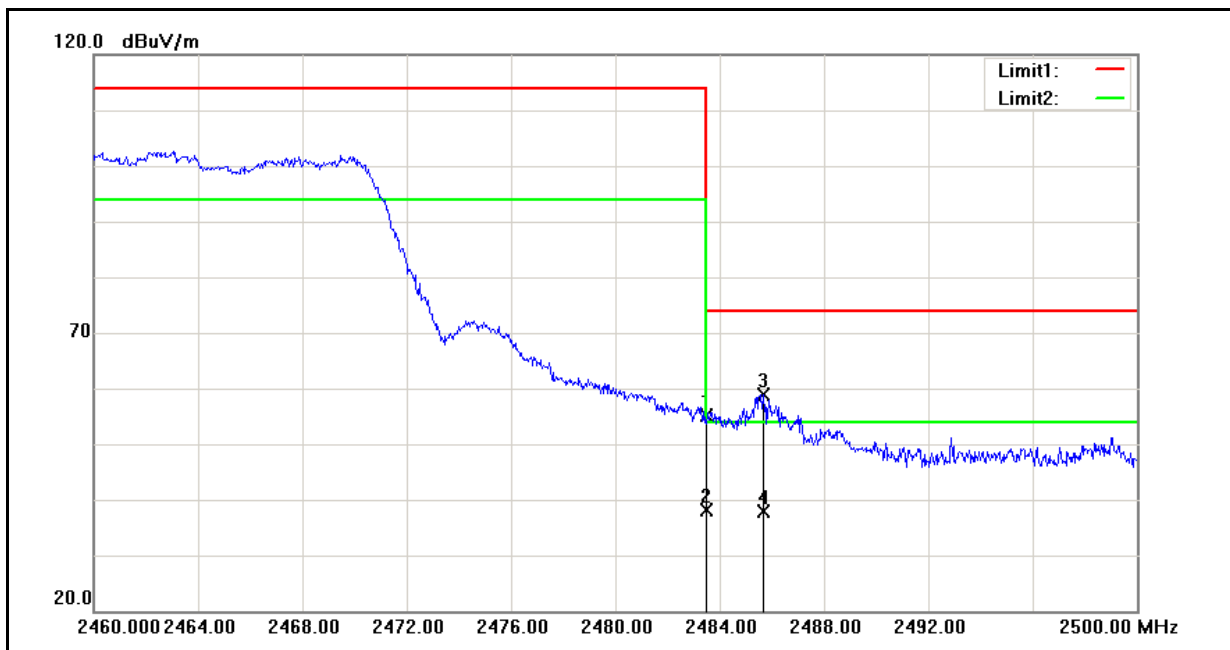
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.540	56.26	-0.06	56.20	74.00	-17.80	peak
2	2388.540	41.05	-0.06	40.99	54.00	-13.01	AVG
3	2390.000	55.88	-0.06	55.82	74.00	-18.18	peak
4	2390.000	40.88	-0.06	40.82	54.00	-13.18	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	FX1	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4	Date:	03/23/2012
Frequency:	2412 MHz	Test By:	Fly Lu
Ant.Polar.:	Vertical		



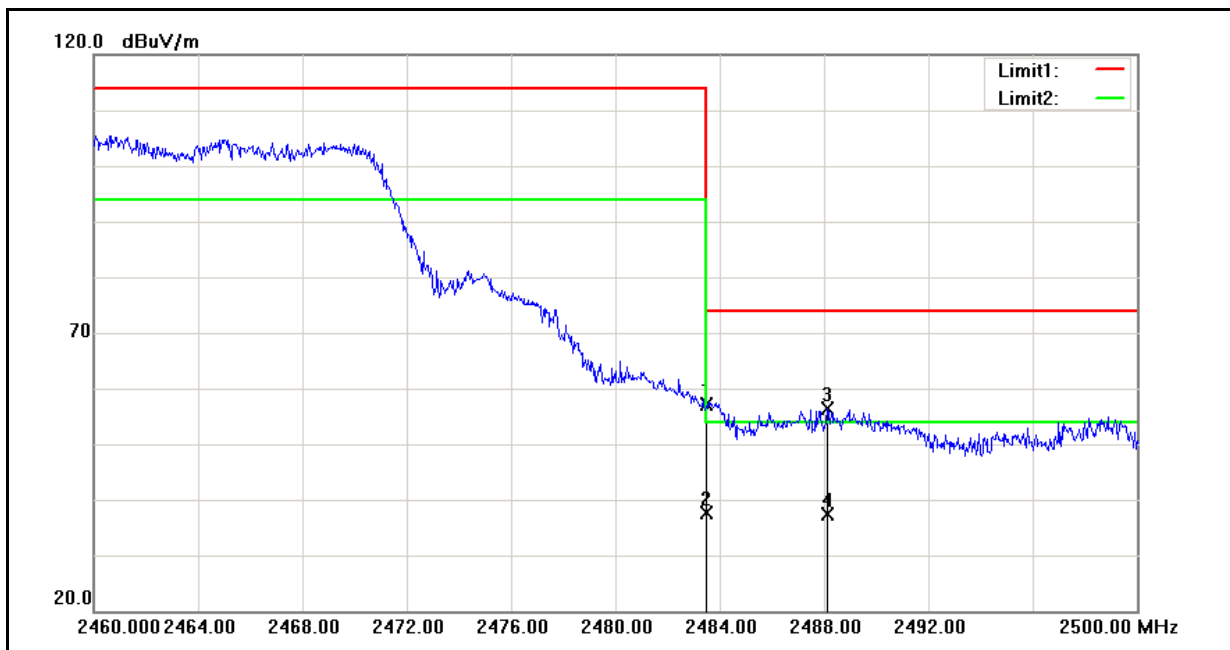
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.980	59.75	-0.06	59.69	74.00	-14.31	peak
2	2388.980	42.65	-0.06	42.59	54.00	-11.41	AVG
3	2390.000	58.69	-0.06	58.63	74.00	-15.37	peak
4	2390.000	41.94	-0.06	41.88	54.00	-12.12	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	FX1	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4	Date:	03/23/2012
Frequency:	2462 MHz	Test By:	Fly Lu
Ant.Polar.:	Horizontal		



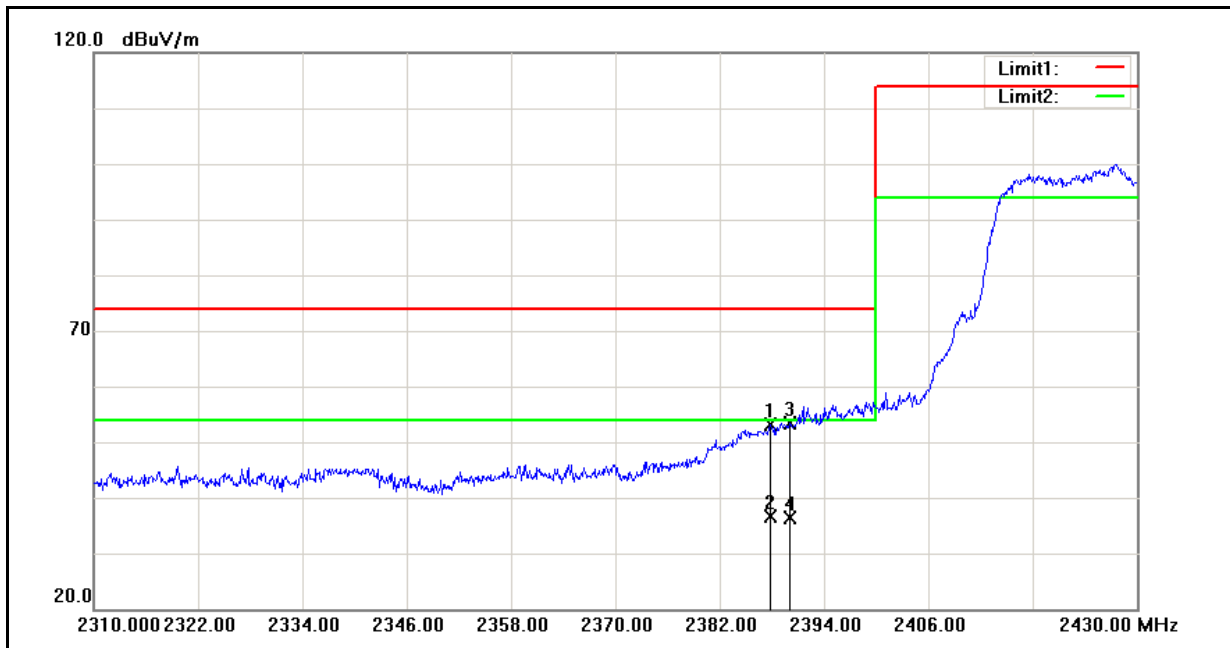
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	54.66	0.35	55.01	74.00	-18.99	peak
2	2483.500	37.81	0.35	38.16	54.00	-15.84	AVG
3	2485.680	58.53	0.37	58.90	74.00	-15.10	peak
4	2485.680	37.63	0.37	38.00	54.00	-16.00	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	FX1	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4	Date:	03/23/2012
Frequency:	2462 MHz	Test By:	Fly Lu
Ant.Polar.:	Vertical		



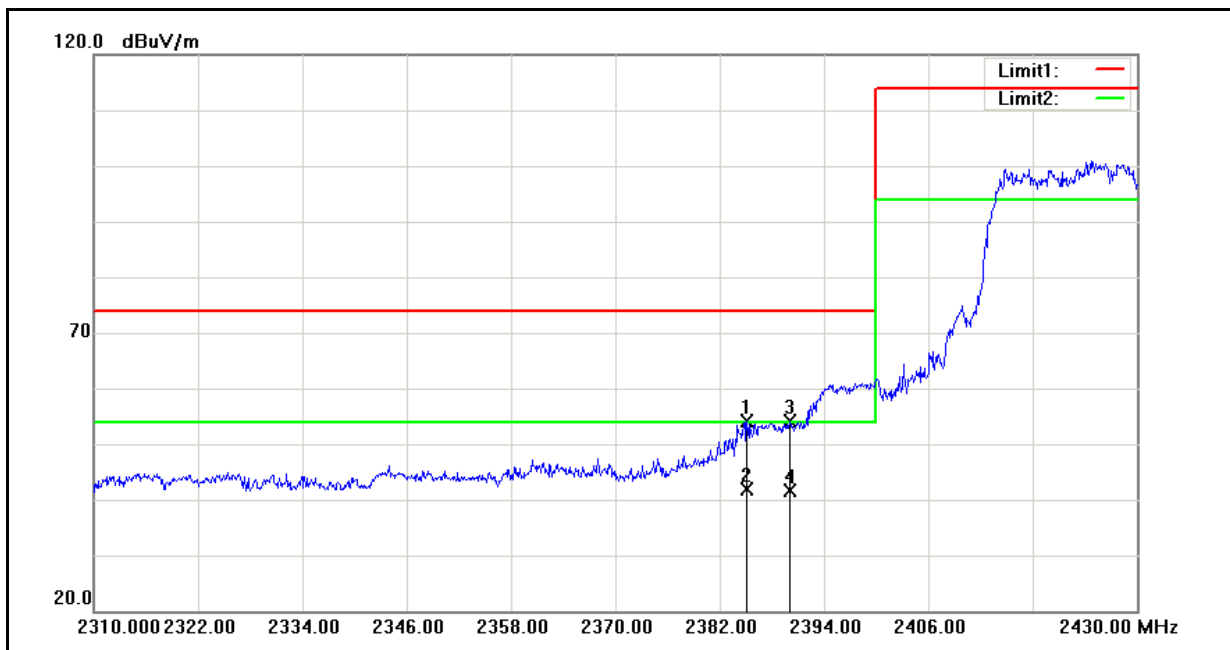
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	56.66	0.35	57.01	74.00	-16.99	peak
2	2483.500	37.29	0.35	37.64	54.00	-16.36	AVG
3	2488.120	55.89	0.37	56.26	74.00	-17.74	peak
4	2488.120	37.12	0.37	37.49	54.00	-16.51	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	FX1	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	5	Date:	03/23/2012
Frequency:	2422 MHz	Test By:	Fly Lu
Ant.Polar.:	Horizontal		



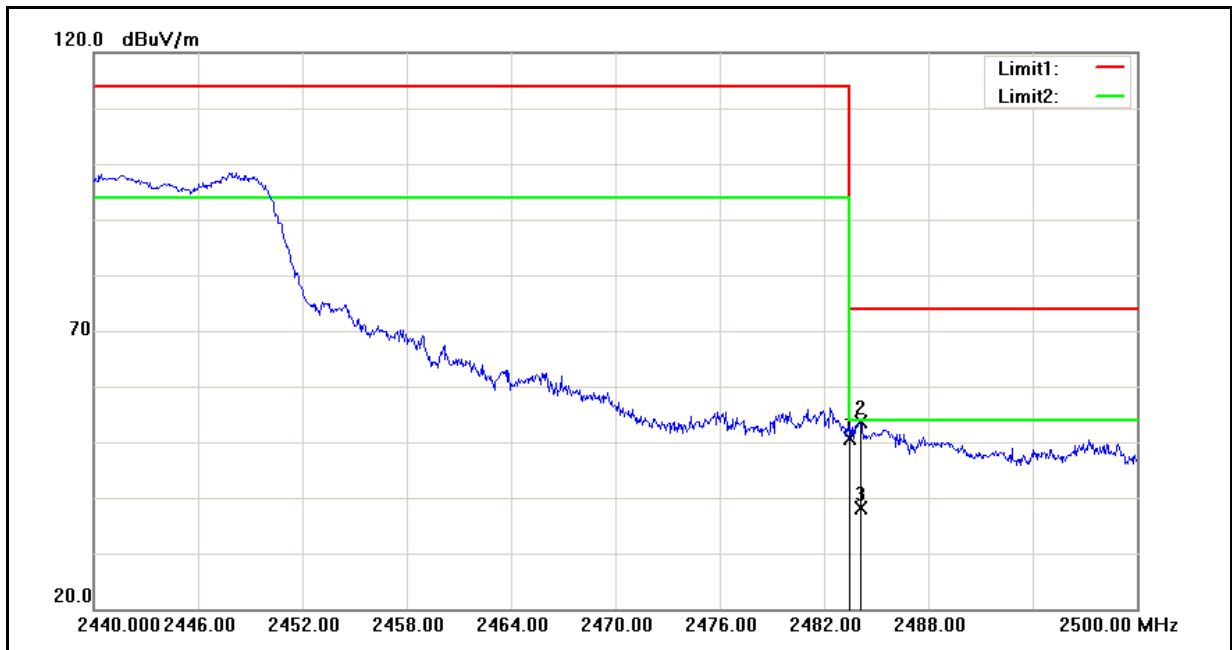
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.880	53.16	-0.07	53.09	74.00	-20.91	peak
2	2387.880	36.66	-0.07	36.59	54.00	-17.41	AVG
3	2390.000	53.41	-0.06	53.35	74.00	-20.65	peak
4	2390.000	36.55	-0.06	36.49	54.00	-17.51	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	FX1	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	5	Date:	03/23/2012
Frequency:	2422 MHz	Test By:	Fly Lu
Ant.Polar.:	Vertical		



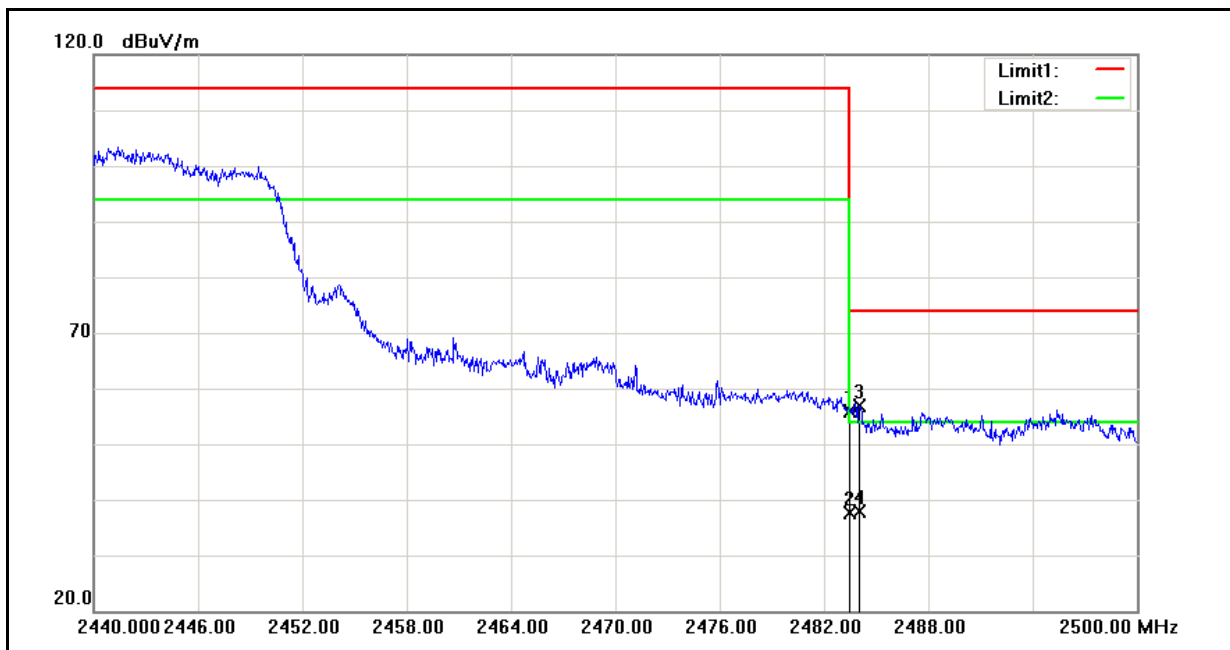
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.120	54.30	-0.08	54.22	74.00	-19.78	peak
2	2385.120	41.96	-0.08	41.88	54.00	-12.12	AVG
3	2390.000	54.21	-0.06	54.15	74.00	-19.85	peak
4	2390.000	41.65	-0.06	41.59	54.00	-12.41	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	FX1	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	5	Date:	03/23/2012
Frequency:	2452 MHz	Test By:	Fly Lu
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	50.37	0.35	50.72	74.00	-23.28	peak
2	2484.100	53.40	0.35	53.75	74.00	-20.25	peak
3	2484.100	37.75	0.35	38.10	54.00	-15.90	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	FX1	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	5	Date:	03/23/2012
Frequency:	2452 MHz	Test By:	Fly Lu
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	55.61	0.35	55.96	74.00	-18.04	peak
2	2483.500	37.24	0.35	37.59	54.00	-16.41	AVG
3	2484.040	56.51	0.35	56.86	74.00	-17.14	peak
4	2484.040	37.64	0.35	37.99	54.00	-16.01	AVG