Test Report

Test Report Number	EOTEL028
Applied Standard(s)	FCC Part15 Subpart C, IC RSS-210,ANSI C63.4-2003
Date of Issue	21th, March 2014
Testing Laboratory Address	e-OHTAMA, Ltd. Tokyo Laboratory No.1 EMC test room 2-8-20 Kuriki, Asao-ku Kawasaki-shi, Kanagawa, 215-0033 Japan
Test Date(s)	14th March, 2014 - 21th March, 2014
Product Name	Wireless LAN module
Model Number	WLVP001
Serial Number	-
Applicant (Client) Address	2-1, Sakaecho 3-chome, Hamura-shi,Tokyo 205-8555 Japan CASIO COMPUTER CO., LTD
Manufacturer Address	2-1, Sakaecho 3-chome, Hamura-shi,Tokyo 205-8555 Japan CASIO COMPUTER CO., LTD
FCC ID / IC	BBQ-WLVP001 / 2388B-WLVP001

Test Result

The test result for the electromagnetic compatibility tests
as described in the section 1 to 2 and in this page was:

Pass

Tested by: Katsutoshi Hatanaka
Katsutoshi Hatanaka
Test Enginner

Approved by: Koji Imai
Koji Imai
Testing Group Leader

Checked box (☒) indicates that the listed condition, standard or equipment is applicable for this Report.
Blank box (☐) indicates that the listed condition, standard or equipment is not applicable for this Report.

Test results of this report refer only to the EUT tested here.

Page

1. Summary

1.1 Terms and definitions

AV
Average

DoC
Declaration of Conformity

EUT
Equipment Under Test

PK
Peak

QP
Quasi-peak

1.2 Standard(s) and Result

Applied Standard(s)	Normative Reference(s)	Classification	Result	Note
FCC Part15 Subpart C	20dB Bandwidth(FHSS only)	15.247(a)(1)	N/A	
	6dB Bandwidth(Digital only)	15.247(a)(2)	Pass	
	Carrier Frequency Separation (FHSS only)	15.247(a)(1)	N/A	
	Number of Hopping Frequencies (FHSS only)	15.247(a)(1)	N/A	
	Time of Occupancy(Dwell Time) (FHSS only)	15.247(a)(1)	N/A	
	Maximum Peak Output Power	15.247(b)(1)(2)FHSS 15.247(b)(3) Digital	Pass	
	Band Edge of Compliance of RF Conducted Emissions	15.247(d)	Pass	
	Restricted Bands of Operation	15.247(d)	Pass	
	Peak Power Spectral Density (Digital only)	15.247(e)	Pass	
	Conducted emissions	15.207	N/A	
	Radiated emissions	15.209 15.205	Pass	
	Maximum Permissible Exposure	1.1310 Safety code6, 2.2.1	N/A	

Note1 : This test measured according to the following procedure:FCC publication KDB558074 Measurement of Digital Transmission Systems Operating under Section 15.247 April 9, 2013

1.3 Deviations from Standard(s)

There was no deviation from the standard.

2. Equipment Under Test (EUT)

2.1 General Descriptions

This device is a wireless module to be mounted on a label printer that supports Wi-Fi connection.

2.2 Detailed Descriptions

Product Name	Wireless LAN module
Model Number	WLVP001
Serial Number	-
Power Supply	3.3Vdc
Dimension	29.0 mm× 33.0 mm
Operating Frequency	2412.000MHz – 2462.000MHz
Normal Placement	Indoor
Condition of the EUT	Prototype

2.3 WORST-CASE CONFIGURATION AND MODE

(a) EUT axes

The fundamental was measured in three different orientations X, Y and Z to find worst-case orientation, and it was found that Y orientation is worst-case; therefore final testing for radiated emissions was performed with EUT in X orientation with Cable.

2.4 Operation Mode(s) of the EUT for EMC during the Test(s)

Operation Mode Name	Description
TX mode	Normal operation TX mode

2.5 Peripheral Devices

Mark	Description	Model Number	Serial Number	FCC ID Code or DoC status	Manufacturer
1	Personal Computer	PP11L	H5923A03	DoC	Dell

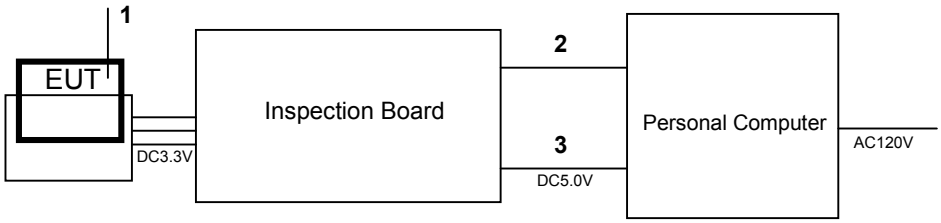
2.6 Interconnecting Cables

Mark	Description	Length (m)	Shielded		Tested Port(s) (Note:1)	
			Cable	Connector	Applicable	Interface
1	Antenna cable	0.05	Yes	Yes	No	RF cable
2	RS232C-USBcable	0.80	Yes	Yes	No	I/O signal
3	Power cable	0.47	No	Yes	No	DC power

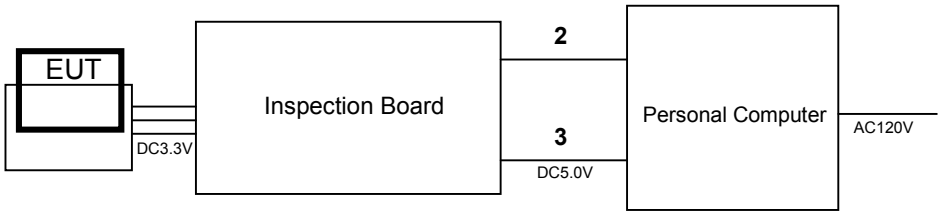
Remarks:

2.7 System Configuration

Unless otherwise specified in the following sections, the test configuration described here is applied for the tests.
The configuration was choice by the applicant.



Conducted



Radiated

2.8 Labeling Requirements

Per 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the trade name and FCC ID must be displayed on the device per Section 15.19(b)(2).
Please see attachment for FCC ID label and label location

2.9 Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:
"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient t to comply with the provisions of this section."

The antennas of the CASIO COMPUTER CO., LTD. are permanently attached.
There are no provisions for connection to an external antenna

Conclusion:
The CASIO COMPUTER CO., LTD. FCC ID: BBQ-WLVP001 unit complies with the requirement of §15.203.

2.10 Module Requirements

Per 15.212

No.	Requirement of FCC Part 15.212	Reference to WLVP001
i	The radio elements of the modular transmitter must have their own shielding.	The module has its own RF shielding.
ii	The modular transmitter must have buffered modulation/data	The modular has buffered data inputs.
iii	The modular transmitter must have its own power supply regulation.	The module has its own power supply regulation.
iv	The modular transmitter must comply with the antenna and transmission system requirements of § 15.203, 15.204(b) and 15.204(c).	The WLVP001 meets the FCC antenna requirements. It has a permanently attached antenna.
v	The modular transmitter must be tested in a stand-alone configuration,i.e., the module must not be inside another device during testing for compliance with part 15 requirements.	The WLVP001 was tested in a stand-alone configuration.
vi	The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.	The module has its own FCC ID number. In user manual, there is warning statement to inform the customer must display a label “Contains Transmitter customer must display a label “Contains Transmitter Module FCC ID: BBQ-WLVP001” in enclosed module.
vii	The modular transmitter must comply with any specific rules or operating requirements that ordinarily apply to a complete transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements.A copy of these instructions must be included in the application for equipment authorization.	The WLVP001 is compliant with all applicable FCC rules.
viii	The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	The WLVP001 complies with applicable RF exposure requirements.

Conclusion:

The CASIO COMPUTER CO., LTD. FCC ID: BBQ-WLVP001 unit complies with the requirement of §15.212.

3. Test Data

3.1 Test specification

Standard	FCC Part15 Subpart C 15.205 15.207 15.209 15.247, IC RSS-210 ANSI C63.4-2003
Frequency Range	2412.000 MHz to 262.000MHz
Test Date	14th March, 2014 - 21th March, 2014
Test Location	Tokyo Laboratory No.1 EMC test room
Test Engineer	Katsutoshi Hatanaka
Temperature	17.5 °C – 21.2℃
Humidity	47%RH - 56% RH
Pressure	1005 hPa
Power Supply	3.3V dc
Operation Mode Name	TX mode
Tested TX modulation	G1D,D1D
Tested channel	Lower ch 2412.000MHz Middle ch 2437.000MHz Higher ch 2460.000MHz

Remark: *1 : Equivalent isotropic radiated power and Frequency Range only.

3.2 6dB Bandwidth

3.2.1 Test Result

Worst Case---Modulation Type：CCK　Data Rate：11Mbps

Cannel	Center Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)
Lower	2412.000	12900.0	500	12400.0
Middle	2437.000	12800.0	500	12300.0
Higher	2462.000	12800.0	500	12300.0

Table1　6dB Bandwidth

Result：Pass

3.2.2 Test Detail

EUT was tested based on FCC 15.247(a)(2)
with temporally antenna port.
The RBW is set to 100kHz and the VBW is set to 100kHz. The sweep time is coupled.

3.2.3 Test data

Figure 1　6dB Bandwidth(Lower ch_2412.000MHz)

Figure 2 6dB Bandwidth(Middle ch_2437.000MHz)

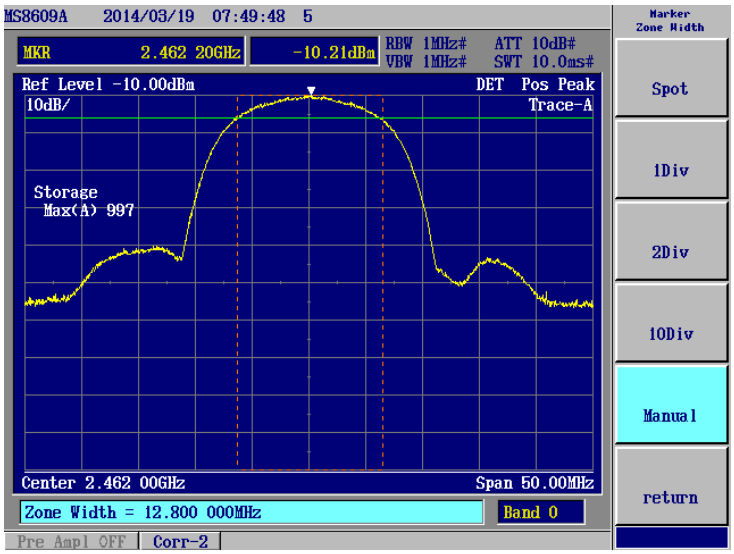


Figure 3 6dB Bandwidth(Higher ch_2462.000MHz)

3.3 Maximum Peak Output Power

3.3.1 Test Result

Worst Case---Modulation Type：CCK　Data Rate：11Mbps

Channel	Frequency (MHz)	S/A Reading (dBm)	Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)
Lower	2412.000	−9.22	20.30	10.86	30	19.14
Middle	2436.850	−10.17	20.27	10.10	30	19.90
Higher	2462.300	−10.52	20.26	9.74	30	20.26

Table2　Maximum Peak Output Power

Result：Pass

3.3.2 Test Detail

EUT was tested based on FCC 15.247(b)(1)(2)FHSS 15.247(b)(3)DHSS with temporally antenna port. The bandwidth of the RF frequency is measured with the spectrum analyzer using 1MHz RBW and 1MHz VBW.

3.3.3 Test data

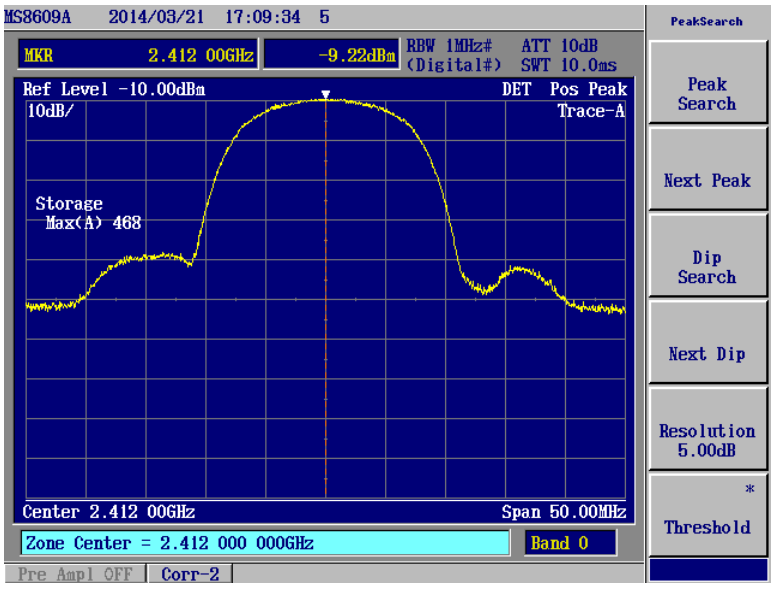


Figure 4　Maximum Peak Output Power(Lower ch_2412.000MHz)

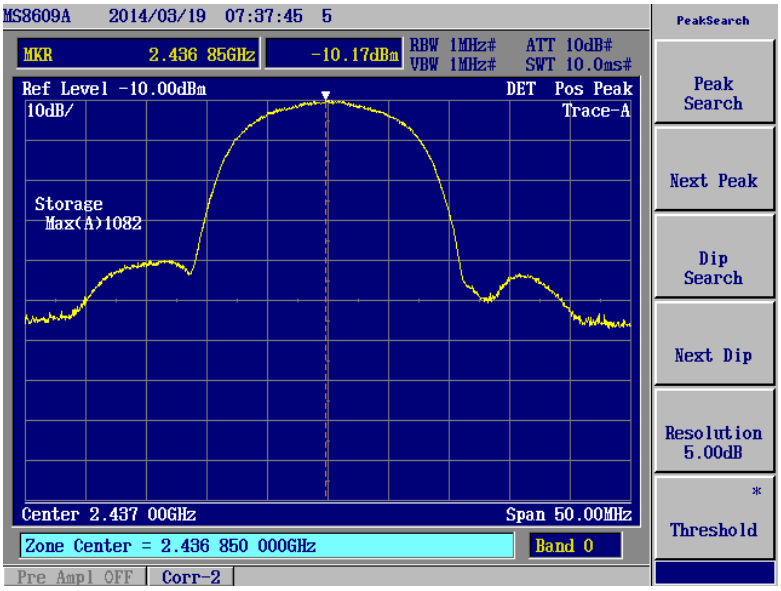


Figure 5 Maximum Peak Output Power(Middle ch_2437.000MHz)

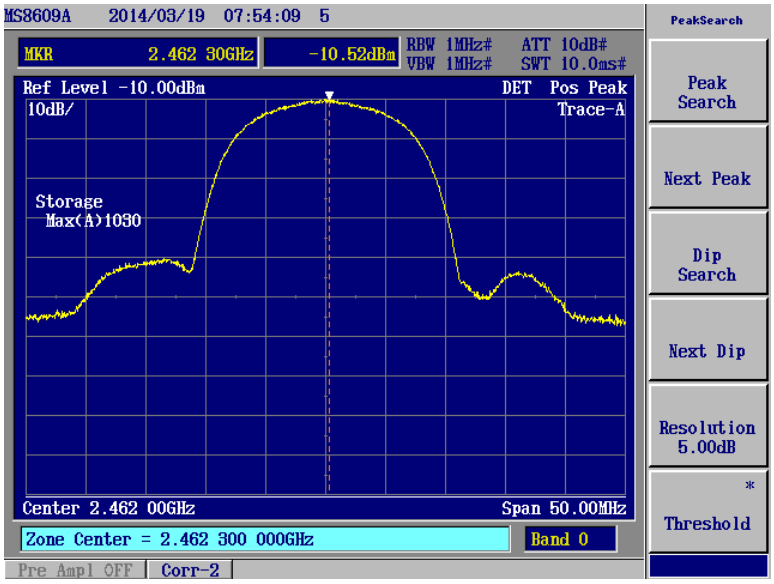


Figure 6 Maximum Peak Output Power(Higher ch_2462.000MHz)

3.4 Band Edge of Compliance of RF Conducted Emissions

3.4.1 Test Result

Worst Case---Modulation Type：CCK　Data Rate：11Mbps

Edge	Frequency (MHz)	Deference (dB)	Limit (dB)	Margin (dB)
Lower	2397.650	40.53	>20	20.53
Higher	2477.500	44.26	>20	24.26

Table3　Band Edge of Compliance of RF Conducted Emissions

Result：Pass

3.4.2 Test Detail

EUT was tested based on FCC 15.247(d) with temporally antenna port. The spectrum analyzer is set to RBW=1MHz, VBW=1MHz, Detector function=Peak.

3.4.3 Test data

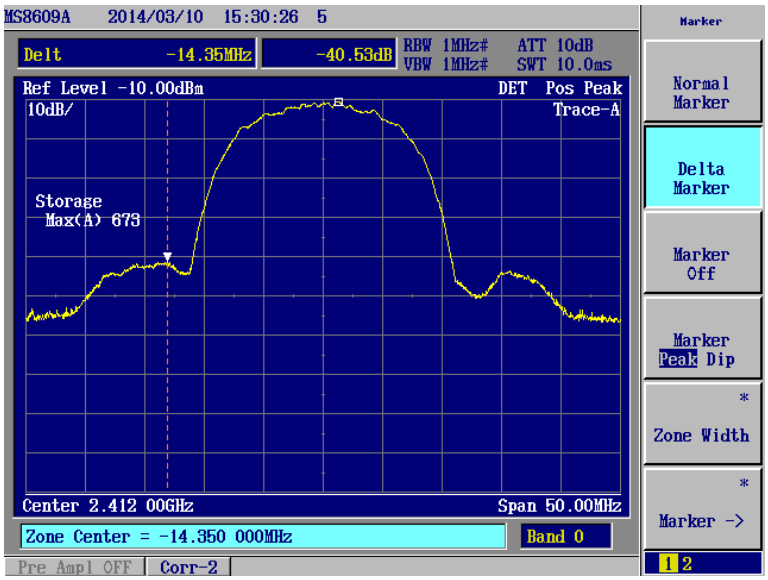


Figure 7　Band Edge of Compliance of RF Conducted Emissions (Lower ch_2412.000MHz)

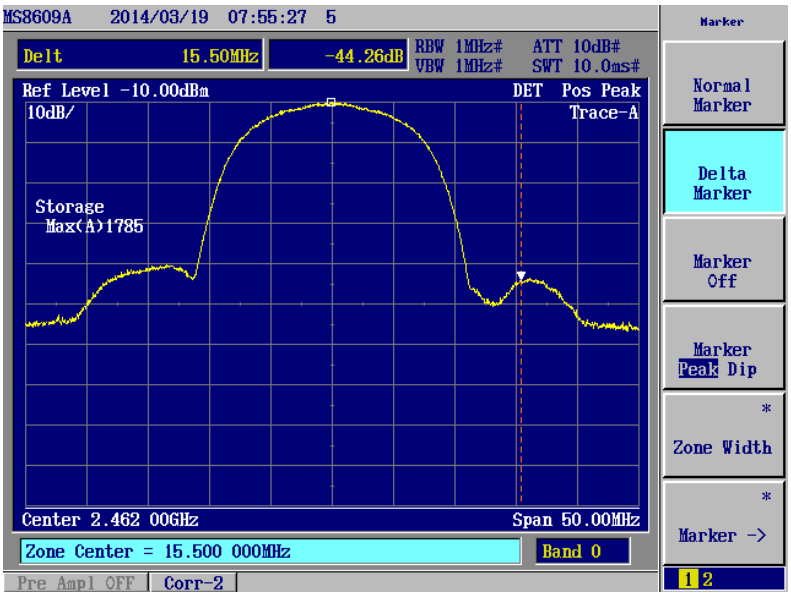


Figure 8 Band Edge of Compliance of RF Conducted Emissions (Higher ch_2462.000MHz)

3.5 Peak Power Spectral Density

3.5.1 Test Result

Worst Case---Modulation Type：CCK　Data Rate：11Mbps

Channel	Frequency (MHz)	S/A Reading (dBm)	Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)
Lower	2412.080	−29.63	20.30	−9.33	30	39.33
Middle	2437.100	−29.47	20.27	−9.20	30	39.20
Higher	2462.300	−31.15	20.26	−10.89	30	40.89

Table4　Peak Power Spectral Density

Result：Pass

3.5.2 Test Detail

EUT was tested based on FCC 15.247(b)(1)(2)FHSS 15.247(b)(3)DHSS with temporally antenna port. The bandwidth of the RF frequency is measured with the spectrum analyzer using 3kHz RBW and 10kHz VBW.

3.5.3 Test data

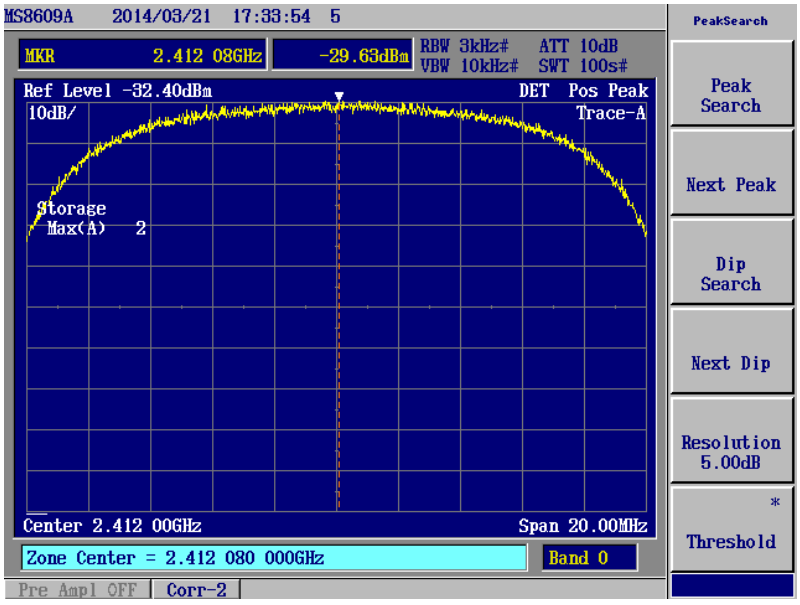


Figure 9　Peak Power Spectral Density (Lower ch_2412.000MHz)

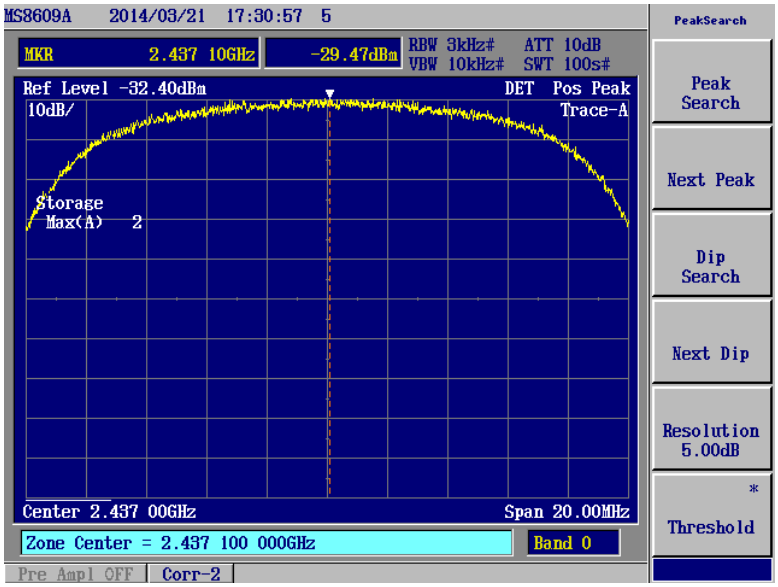


Figure 10 Peak Power Spectral Density (Middle ch_2437.000MHz)

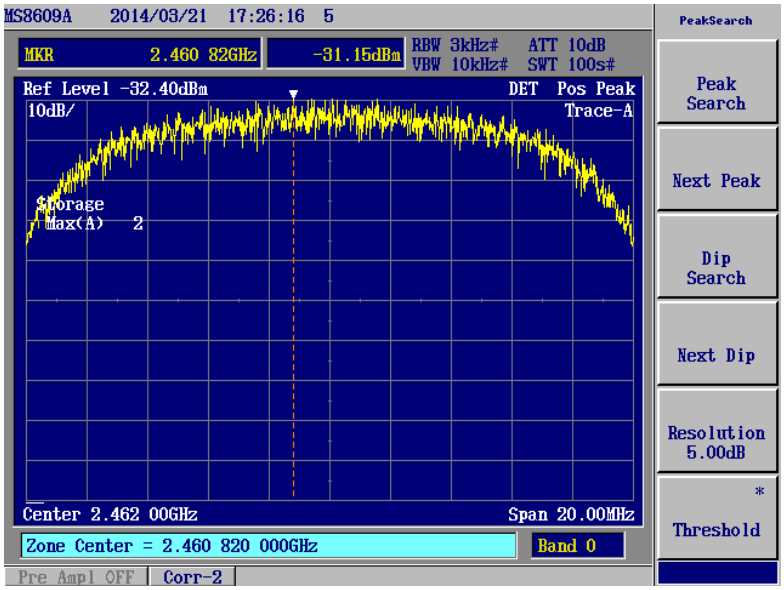


Figure 11 Peak Power Spectral Density (Higher ch_2462.000MHz)

3.6 Radiated emission

3.6.1 Test Result

3.6.1.1 9kHz to 1000MHz

Worst Case---Modulation Type：CCK Data Rate：11Mbps

Transmit frequency (MHz)	Measurement Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Noise level (dBμV/m)	Ant height (m)	Ant Pol (H/V)	Turn table angle (digree)	Limit (dBμV/m)	Margin (dB)
2412.000	25.48	8.8	17.4	26.2	110	V	153	29.5	3.3
	74.579	47.4	-14.6	32.8	298	H	239	40	7.2
	798.803	36.4	1.1	37.5	123	V	7	46	8.5
2437.000	23.096	8.3	17.2	25.5	110	H	185	29.5	4.0
	74.549	51.3	-14.6	36.7	313	H	270	40	3.3
	797.285	34.3	1.0	35.3	120	V	11	46	10.7
2462.000	26.811	8.9	17.2	26.1	120	V	113	29.5	3.4
	52.339	49.3	-12.1	37.2	120	V	62	40	2.8
	797.513	35.2	1.0	36.2	119	V	5	46	9.8

Table5 Radiated Emission (9kHz-1000MHz)

Result：Pass

3.6.1.2 1GHz to 25GHz

Worst Case---Modulation Type：CCK Data Rate：11Mbps

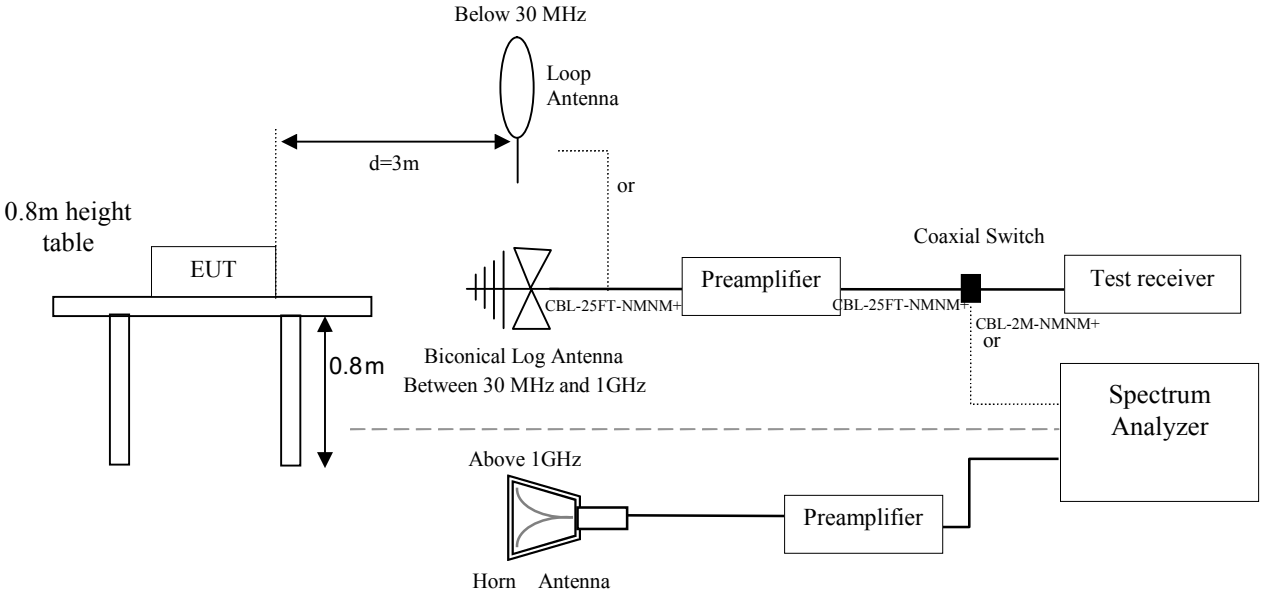
Transmit frequency (MHz)	Measurement Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Noise level (dBμV/m)	Ant height (m)	Ant Pol (H/V)	Turn table angle (digree)	Limit (dBμV/m)	Margin (dB)
2412.000	1130.277	35.9	-2.9	33.0	176	V	210	54	21.0
	4824.052	28.6	16.5	45.1	192	H	1	54	8.9
	23691.552	23.6	25.3	48.9	170	H	288	54	5.1
2437.000	1130.334	36.1	-2.9	33.2	130	V	358	54	20.8
	4874.032	28.0	17.6	45.6	121	V	354	54	8.4
	21023.162	23.0	25.7	48.7	171	H	268	54	5.3
2462.000	1130.415	35.8	-2.1	33.7	121	V	161	54	20.3
	4923.984	23.6	16.9	40.5	125	V	359	54	13.5
	21355.816	23.2	25.9	49.1	180	H	50	54	4.9

Table6 Radiated Emission (1GHz-25GHz)

Result：Pass

3.6.2 Test Detail

EUT was tested based on FCC 15.209 with antenna. See Annex B.



3.6.3 Test data

3.6.3.1 9kHz to 1000MHz

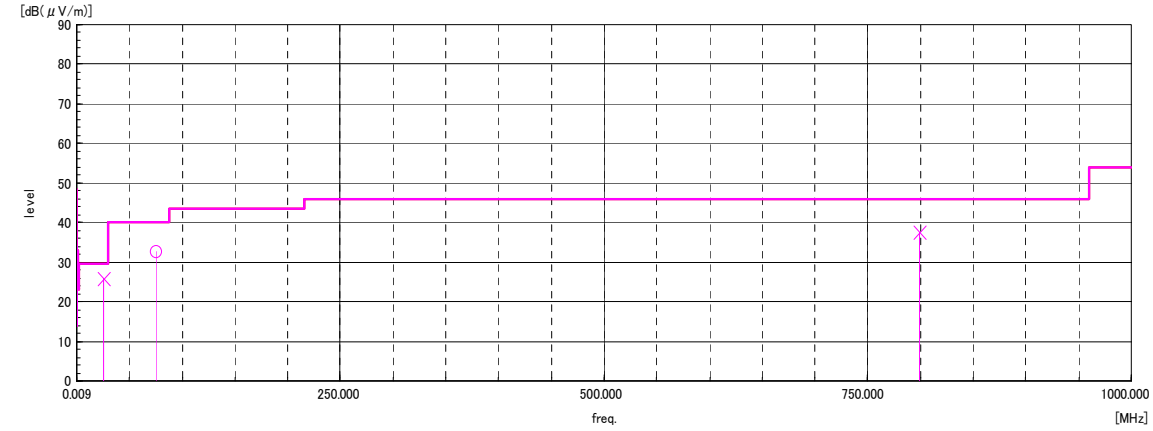


Figure 9 Radiated Emission (Lower ch_2412.000MHz)

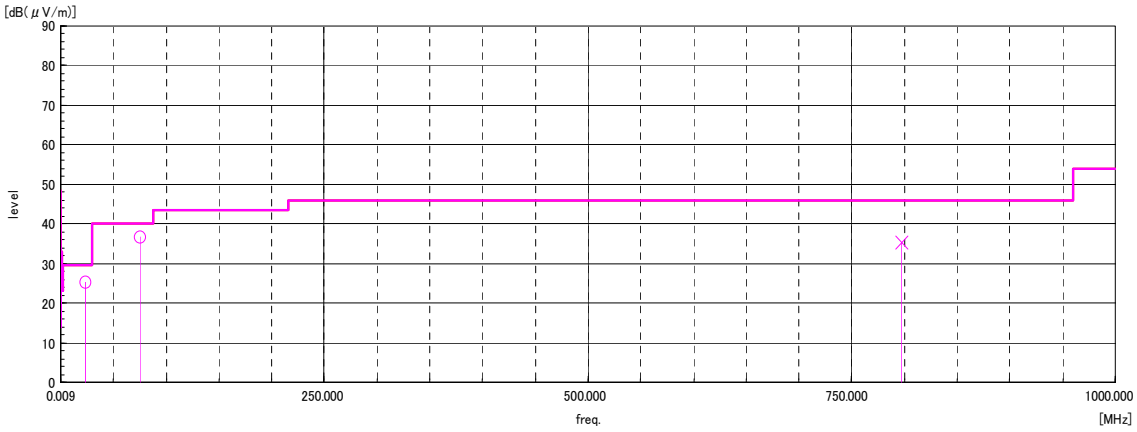


Figure 10 Radiated Emission (Middle ch_2437.000MHz)

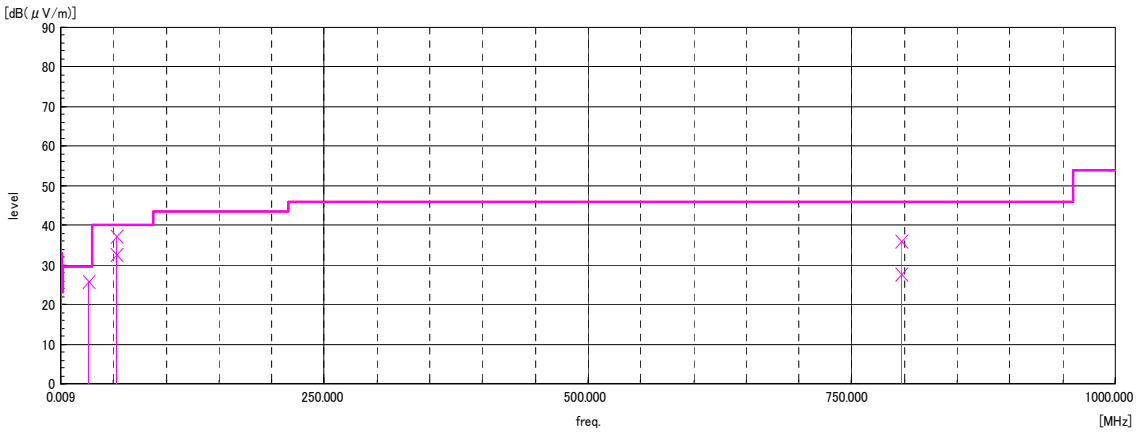


Figure 11 Radiated Emission (Higher ch_2462.000MHz)

3.6.3.2 1GHz to 25GHz

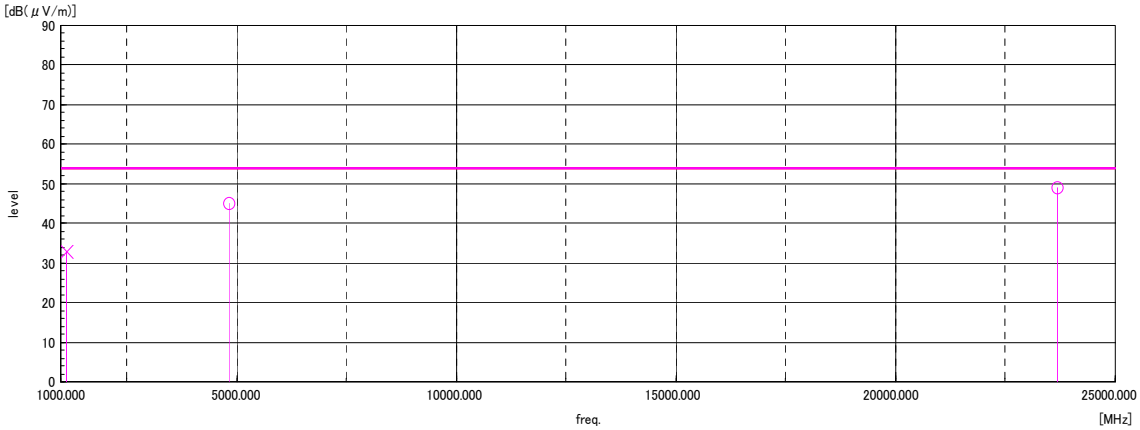


Figure 12 Radiated Emission (Lower ch_2412.000MHz)

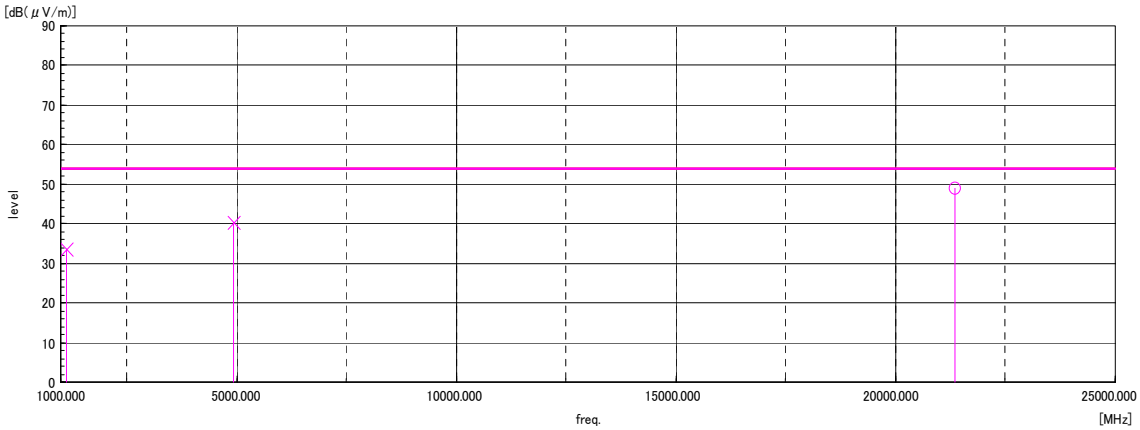


Figure 13 Radiated Emission (Middle ch_2437.000MHz)

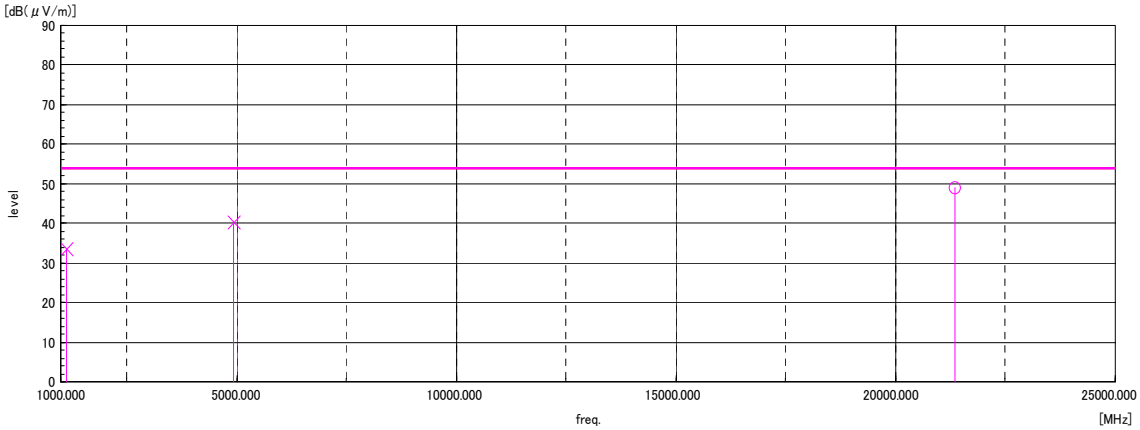


Figure 14 Radiated Emission (Higher ch_2462.000MHz

3.7 Line Conducted Measurement Data

3.7.1 Test Result

Worst Case---Modulation Type：CCK　Data Rate：11Mbps

LINE	Frequency [MHz]	Factor [dB]	Level[dBμV] QP	Level[dBμV] AV	Result[dBμV] QP	Result[dBμV] AV	Limit[dBμV] QP	Limit[dBμV] AV	Margin[dB] QP	Margin[dB] AV
A	0.1500	9.9	38.0	10.6	47.9	20.5	66.0	56.0	18.1	35.5
	0.3264	9.9	24.2	22.8	34.1	32.7	59.5	49.5	25.4	16.8
	0.8967	9.9	19.2	16.2	29.1	26.1	56.0	46.0	26.9	19.9
	3.1017	9.8	26.9	23.3	36.7	33.1	56.0	46.0	19.3	12.9
	19.6694	10.2	28.7	21.8	38.9	32.0	60.0	50.0	21.1	18.0
	22.0475	10.4	28.3	20.9	38.7	31.3	60.0	50.0	21.3	18.7
B	0.1500	9.9	37.9	10.7	47.8	20.6	66.0	56.0	18.2	35.4
	0.2446	9.7	29.9	26.0	39.6	35.7	61.9	51.9	22.3	16.2
	0.3255	10.0	29.6	27.9	39.6	37.9	59.6	49.6	20.0	11.7
	0.8956	9.9	23.4	22.3	33.3	32.2	56.0	46.0	22.7	13.8
	3.0142	9.8	29.5	27.3	39.3	37.1	56.0	46.0	16.7	8.9
	22.5756	10.4	28.3	21.8	38.7	32.2	60.0	50.0	21.3	17.8

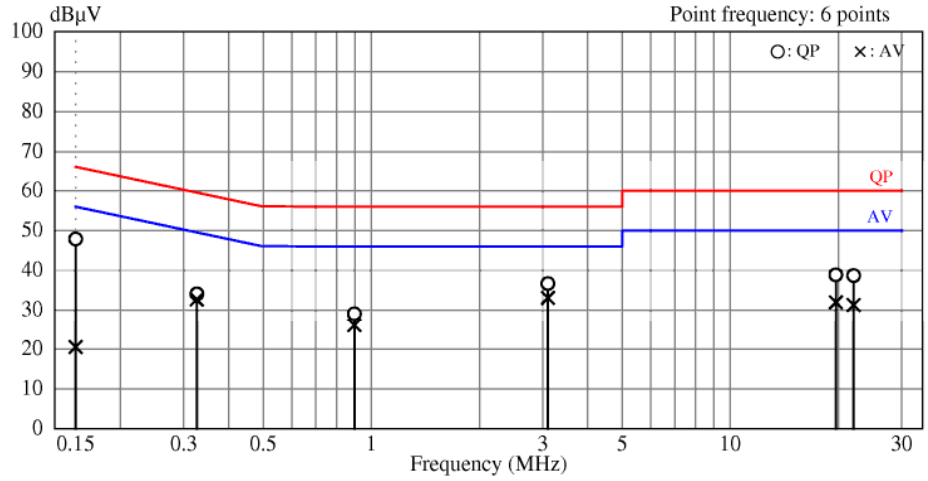
Result：Pass

3.7.2 Test Detail

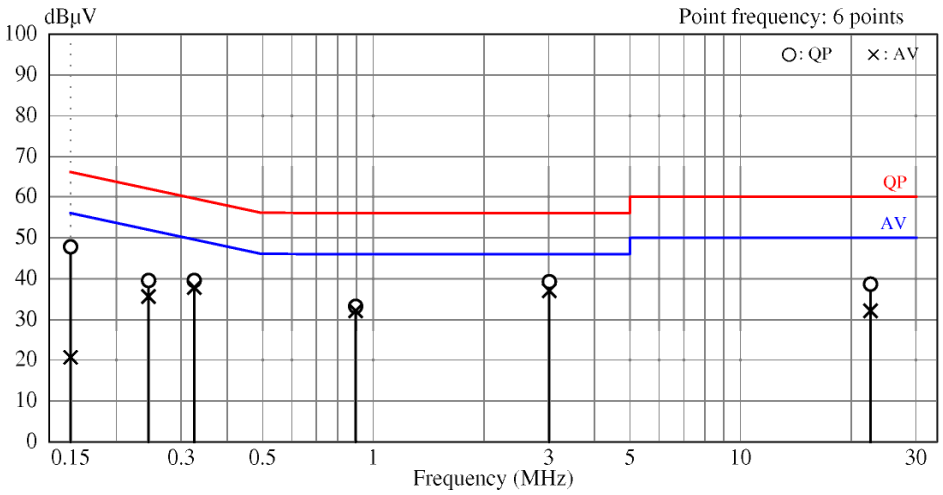
Onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN).

3.7.3 Test data

< LINE A >



< LINE B >


dBµV
Point frequency: 6 points
○: QP
×: AV
QP
AV
100
90
80
70
60
50
40
30
20
10
0
0.15
0.3
0.5
1
3
5
10
30
Frequency (MHz)

4. Test facility

4.1 Test Instruments

4.1.1 Conducted Emissions

Product Name	Manufacturer	Model Number	Serial Number	Calibration Date	Due Date
Spectrum Analyzer	Anritsu	MS8609A	6200684960	2013/09/13	2014/09/30
Cable	Pasternack	PE315-24	-	2013/06/25	2014/06/30
Attenuator(20dB)	Anritsu	41KC20	-	2013/06/19	2014/06/30

4.1.2 Radiated Electric-Field Emissions

Product Name	Manufacturer	Model Number	Serial Number	Calibration Date	Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB40	100263	2013/09/17	2014/0930
Pre amplifier	Hewlett Packard	8447F	2805A03194	2013/07/29	2014/07/31
Pre amplifier	Hewlett Packard	8449B	3008A0079	2013/07/1	2014/07/31
Cable	Mini-Circuits	CBL-25FT-NMNM+	83148	2013/12/20	2014/12/31
Cable	Mini-Circuits	CBL-25FT-NMNM+	83145	2013/12/20	2014/12/31
Cable	Mini-Circuits	CBL-2M-NMNM+	71548	2013/12/20	2014/12/31
Cable	Mini-Circuits	CBL-1M-NMNM+	104547/4	2013/12/20	2014/12/31
Loop Antenna	EMCO	6507	9108-1268	2013/04/03	2014/04/30
Biconical Log Antenna	Schwarzbeck	VULB9160	9160-3189	2013/06/10	2014/06/30
Horn Antenna	ETS-LINDGREN	3117	00146463	2013/05/01	2014/05/31
Horn Antenna	ETS-LINDGREN	3116C	00146359	2014/01/28	2015/01/31

5.1.3 Line Conducted Emissions

Product Name	Manufacturer	Model Number	Serial Number	Calibration Date	Due Date
Receiver	Rohde&Schwarz	ESIB7	100211	2013/6/26	2014/6/30
LISN	Rohde&Schwarz	ENV216/02	100168	2013/7/25	2014/7/31
LISN	Rohde&Schwarz	ENV216/02	100169	2013/7/25	2014/7/31

4.2 Test equipment

Dimension	Material	Measurement
1.5m(W) X 0.8m(H) X 1.0m(D)	Polystyrene	Radiated Emissions
0.4m(W) X 0.7m(H) X 0.4m(D)	Polystyrene	Conducted Emissions

4.3 Normalized Site Attenuation

Site Name	Laboratory	Calibration Date	Due Date
No.1 EMC test room	Tokyo Laboratory	2013/10/23	2014/10/31

Annex A (Miscellaneous Information)

A.1 Test Locations

Unless otherwise described in this report, the tests were carried out at the following locations:

e-OHTAMA, Ltd., Tokyo Laboratory
2-8-10 Kurigi, Aso-ku, Kawasaki-shi, Kanagawa, Japan
TEL: +81-44-980-2090
FAX: +81-44-980-2052

VLAC Attestation No.: VLAC-018-1

Annex B (Description of Test Method)

Unless otherwise described in this report, tests are carried out using the methods which are described in the applied standards and summarized in this section.

Specifically for 47 CFR 15 Subpart B, section 6 of ANSI C63.4-2003 is to be used for EUT arrangements and operations, and section 8 of the standard is to be used for radiated emissions measurement procedures.

B.1 Conducted Emissions (AC Main and Other Terminals)

Table-top EUT is placed on a wooden table so that one side (rear or bottom) of the EUT is separated 0.4 m from the reference plane (metallic wall or ground plane), and floor-standing EUT is placed on the ground plane.
Mains to the EUT is supplied through a LISN, and mains to non-EUT components, if any, are supplied through yet another LISN(s).
If LISN is not applicable, mains would be supplied directly and a voltage probe would be used instead for the measurement.
For each current-carrying conductors or terminals to be measured, a spectrum analyzer is used to pre-scan the emissions.
For each of the significant emissions detected, the maximum signal level is read using a measuring receiver having CISPR 16 quasi-peak (QP) and average (AV) detector function and 9 kHz nominal bandwidth.
Then, appropriate correction factor —consists of transducer (LISN or voltage probe) factor and transmission loss (due to the attenuator, filter and/or transient suppressor, if any, and the cable) in the system— is applied to the receiver reading to calculate the corresponding emission level.
For example, if reading on the receiver is 33.0 dBµV, the transducer factor is 0.5 dB, and transmission loss (attenuation) in the coaxial cable and the attenuator is 10.5 dB, the emission level is calculated as:
33.0 dBµV + 0.5 dB + 10.5 dB = 44.0 dBµV.
Finally, the calculated emission level is compared with the upper limit specified in the standard.
Actual measurement will be carried out according to the appropriate edition of CISPR 16-2-1, CISPR 22, and ANSI C63.4 and/or other standards whichever applicable.
Specifically for 47 CFR 15 Subpart B, section 6 of ANSI C63.4-2003 is to be used for EUT arrangements and operations, and section 8 of the standard is to be used for radiated emissions measurement procedures.

B.2 Radiated Electric-Field Emissions (30 MHz to 1000MHz)

EUT is placed on a turn-table in a test site, on a table (styrene form) 0.8 m height or on the floor unless otherwise specified in the standard.
Receiving antenna ---usually biconical, log-periodic or biconical/log-periodic hybrid---is positioned at the specified distance from the EUT.
For each polarization (horizontal and vertical), a spectrum analyzer is used to pre-scan the emissions while rotating the turn-table.
For each of the significant electromagnetic field detected, the test personnel discriminates EUT's emissions from the ambient noises.
For each of the significant emissions, maximum level of the emission is searched while rotating the turn-table and varying the antenna height between 1 m and 4 m, and the maximum signal level is read using a measuring receiver having CISPR 16 quasi-peak (QP) detector function and 120 kHz nominal bandwidth.
Then, appropriate correction factor —consists of antenna factor, amplifier gain and transmission loss (due to the attenuator and the cable loss) in the system— is applied to the receiver reading to calculate the corresponding field strength.
For example, if reading on the receiver is 33.0 dBµV, the antenna factor is 9.4 dB (1/m), the amplifier gain is 25.6 dB, and transmission loss (attenuation) in the coaxial cable and the attenuator is 6.5 dB, the field strength is calculated as: 33.0 dBµV + 9.4 dB (1/m) - 25.6 dB + 6.5 dB = 23.3 dBµV/m.
Finally, the calculated field strength is compared with the upper limit specified in the standard.
Actual measurement will be carried out according to the appropriate edition of CISPR 16-2-3, CISPR 22, and ANSI C63.4 and/or other standards whichever applicable.
Specifically for 47 CFR 15 Subpart B, section 6 of ANSI C63.4-2003 is to be used for EUT arrangements and operations, and section 8 of the standard is to be used for radiated emissions measurement procedures.

B.3 Radiated Electric-Field Emissions above 1000MHz

EUT is placed on a turn-table in a test site, on a table (styrene foam) 0.8 m height or on the floor unless otherwise specified in the standard.
Receiving antenna ---usually double ridge waveguide horn or standard horn--- is positioned at the specified distance from the EUT.
For each polarization (horizontal and vertical), a spectrum analyzer is used to pre-scan the emissions while rotating the turn-table.
For each of the significant electromagnetic field detected, the test personnel discriminates EUT's emissions from the ambient noises.
For each of the significant emissions, maximum level of the emission is searched while rotating the turn-table and varying the antenna height if it is required, and the maximum signal level is read using a spectrum analyzer or a measuring receiver having peak detector function and 1 MHz nominal bandwidth, unless otherwise specified in the standard. To obtain average readings with spectrum analyzers, video averaging (usually with VBW = 10 Hz) may be used.
As specified in the applicable standard, the antenna height would be (1) varied between 1 m and 4 m, or (2) varied so that the whole height of the EUT is covered by the main lobe of the receiving antenna, or (3) fixed to the approximate radiation center of the EUT.
Then, appropriate correction factor ---consists of antenna factor, amplifier gain and transmission loss (due to the attenuator and the cable loss) in the system--- is applied to the spectrum analyzer/receiver reading to calculate the corresponding field strength, and the result is compared with the upper limit specified in the standard.
Actual measurement will be carried out according to the appropriate edition of CISPR 16-2-3, CISPR 22, ANSI C63.4 and/or other standards whichever applicable.
Specifically for 47 CFR 15 Subpart B, section 6 of ANSI C63.4-2003 is to be used for EUT arrangements and operations, and section 8 of the standard is to be used for radiated emissions measurement procedures.

B.4 Radiated Magnetic-Field Emissions

EUT is placed on a turn-table in a test site, on a (styrene foam) table 0.8 m height or on the floor unless otherwise specified in the standard.
Receiving antenna ---loop antenna (active or passive) --- is positioned at the specified distance from the EUT.
A spectrum analyzer is used to pre-scan the emissions while rotating the turn-table.
For each of the significant electromagnetic field detected, the test personnel discriminates EUT's emissions from the ambient noises.
For each of the significant emissions, maximum level of the emission is searched while rotating the turn-table and rotating the receiving antenna about its center, and the maximum signal level is read using a measuring receiver having CISPR 16 quasi-peak (QP) detector function and 120 kHz nominal bandwidth.
Then, appropriate correction factor ---consists of antenna factor, and transmission loss (cable loss) in the system--- is applied to the receiver reading to calculate the corresponding field strength, and the result is compared with the upper limit specified in the standard.
In general, it is assumed that magnetic field strength can be converted to electric field strength by applying the free space impedance of approximately 377 ohms, and vice versa.
Actual measurement will be carried out according to the appropriate edition of CISPR 16-2-3, ANSI C63.4 and/or other standards whichever applicable.