RADIO TEST REPORT

Test Report No. :28AE0101-HO-A

Applicant	:	**Canon Inc.**
Type of Equipment	:	**Wireless Module for Printer**
Model No.	:	**FM33490**
FCC ID	:	**AZDFM33490**
Test standard	:	**FCC Part 15 Subpart C : 2007** **Section 15.207, Section 15.247**
Test Result	:	**Complied**

1. This test report shall not be reproduced in full or partial, without the written approval of UL Japan, Inc.
2. The results in this report apply only to the sample tested.
3. This sample tested is in compliance with the above regulation.
4. The test results in this report are traceable to the national or international standards.

Date of test: August 12 to 20, 2007

Tested by:

Takahiro Hatakeda	Makoto Kosaka	Kenichi Adachi
EMC Services	EMC Services	EMC Services

Approved by :

Tetsuo Maeno
Site Manager of EMC Services

NVLAP LAB CODE: 200572-0

This laboratory is accredited by the NVLAP LAB CODE 200572-0, U.S.A. The tests reported herein have been performed in accordance with its terms of accreditation.
*As for the range of Accreditation in NVLAP, you may refer to the WEB address, http://uljapan.co.jp/emc/nvlap.htm

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

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SECTION 1: Client information

Company Name	:	Canon Inc.
Address	:	7-5-1 Hakusan, Toride-shi, Ibaraki 302-8501, Japan
Telephone Number	:	+81-297-74-2111
Facsimile Number	:	+81-297-73-7499
Contact Person	:	Masayuki Hiraide

SECTION 2: Equipment under test (E.U.T.)

2.1 Identification of E.U.T.

Type of Equipment	:	Wireless Module for Printer
Model No.	:	FM33490
Serial No.	:	10
Country of Manufacture	:	Japan
Receipt Date of Sample	:	August 11, 2007
Condition of EUT	:	Production prototype (Not for Sale: This sample is equivalent to mass-produced items.)
Modification of EUT	:	No modification by the test lab.

2.2 Product Description

Model No: FM33490 (referred to as the EUT in this report) is the Wireless Module for Printer.
The EUT is installed in the Printer (Model No.: LBP3460-US) manufactured by Canon Inc for testing purpose.

Clock frequency(ies) in the system	:	38.4MHz
Equipment Type	:	Transceiver
Frequency of Operation	:	2412 – 2462MHz
Modulation	:	DSSS, OFDM
Operating Voltage	:	DC 3.3V (DC 3.13 – 3.46V)
Antenna Type	:	Dipole antenna
Antenna Gain	:	1) SFP Antenna (Model No.: ANTB18-076A0): 2.14 dBi * SFP Antenna cannot rotate at 180 – 360 degree. 2) MFP Antenna (Model No.: FU-06-09-003): 2.0dBi * MFP Antenna has a cable. (Cable loss: 1.5dB)

SECTION 3: Test specification, procedures & results

3.1 Test Specification

Test Specification	:	FCC Part15 Subpart C : 2007
Title	:	FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators Section 15.207 Conducted limits Section 15.247 Operation within the bands 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz

FCC 15.31 (e)
This EUT is constantly provided the stable voltage (DC3.3V) from the host device*. Therefore, this EUT complies with the requirement.

FCC Part 15.203 Antenna requirement
[SFP Antenna]
The antenna is connected to the EUT with U.FL connector, and the installation is done by the professionals. Therefore, the equipment complies with the antenna requirement of Section 15.203.

[MFP Antenna]
The EUT has a unique coupling/antenna connector (model: MMCX-BJ-0. 4DV-CR, manufacturer: Amphenol). Therefore the equipment complies with the requirement of 15.203.

As the EUT does not have its own RF shielding, the test was performed with a specific host device as follows:

* Information of host device

Type of Equipment	:	Printer
Model No.	:	LBP3460-US
Serial No.	:	KA-2006-0857
Operating Voltage	:	AC 110 – 127V, 50/60Hz (The test was performed with AC120V/60Hz)

3.2 Procedures and results

No.	Item	Test Procedure	Specification	Remarks	Deviation	Worst margin	Results
1	Conducted emission	**FCC:** ANSI C63.4:2003 7. AC powerline conducted emission measurements	**FCC:** Section 15.207	-	N/A	14.3dB 12.12650MHz AV, N/L	Complied
		IC: RSS-Gen 7.2.2	**IC:** RSS-Gen 7.2.2				
2	6dB Bandwidth	**FCC:** ANSI C63.4:2003 13. Measurement of intentional radiators	**FCC:** Section 15.247(a)(2)	Conducted	N/A	See data.	Complied
		IC: RSS-Gen 4.6.2	**IC:** RSS-210 A8.2(a)				
3	Maximum Peak Output Power	**FCC:** ANSI C63.4:2003 13. Measurement of intentional radiators	**FCC:** Section 15.247(b)(3)	Conducted	N/A		Complied
		IC: RSS-Gen 4.8	**IC:** RSS-210 A8.4(4)				
4	Restricted Band Edges	**FCC:** ANSI C63.4:2003 13. Measurement of intentional radiators	**FCC:** Section 15.247 (d)	Conducted/ Radiated	N/A		Complied
		IC: -	**IC:** RSS-210 A8.5				
5	Power Density	**FCC:** ANSI C63.4:2003 13. Measurement of intentional radiators	**FCC:** Section 15.247 (e)	Conducted	N/A		Complied
		IC: -	**IC:** RSS-210 A8.2(b)				
6	Spurious Emission	**FCC:** ANSI C63.4:2003 13. Measurement of intentional radiators	**FCC:** Section15.247(d)	Conducted/ Radiated	N/A	[Tx] 5.4dB 932.242MHz / 932.252MHz Vert., QP [Rx] 5.3dB 932.240MHz Vert., QP	Complied
		IC: RSS-Gen 4.9 RSS-Gen 4.10	**IC:** RSS-210 A8.5 RSS-Gen 7.2.1 and 7.2.3				
Note: UL Japan, Inc.'s EMI Work Procedures No.QPM05 and QPM15.							

*These tests were also referred to "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247".
*These tests were performed without any deviations from test procedure except for additions or exclusions.

3.3 Addition to standards

No.	Item	Test Procedure	Specification	Remarks	Deviation	Worst margin	Results
1	99% Occupied Band Width	RSS-Gen 4.6.1	-	Conducted	N/A	N/A	N/A

3.4 Uncertainty

The following uncertainties have been calculated to provide a confidence level of 95% using a coverage factor k=2.

Conducted Emission
The measurement uncertainty for this test is ±2.66dB.
The data listed in this test report has enough margin, more than the site margin.

Spurious Emission (Radiated)
The measurement uncertainty for this test using Biconical antenna is ±4.59dB(3m).
The measurement uncertainty for this test using Logperiodic antenna is ±4.62dB(3m).
The measurement uncertainty for this test using Horn antenna is ±5.27dB.
The data listed in this test report has enough margin, more than the site margin.

Other test except Conducted Emission and Spurious Emission (Radiated)
The measurement uncertainty for this test is ±3.0dB.

3.5 Test Location

UL Japan, Inc. Head Office EMC Lab. *NVLAP Lab. code: 200572-0
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone: +81 596 24 8116 Facsimile: +81 596 24 8124

	FCC Registration Number	IC Registration Number	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Other rooms
No.1 semi-anechoic chamber	313583	IC4247	19.2 x 11.2 x 7.7m	7.0 x 6.0m	No.1 Power source room
No.2 semi-anechoic chamber	655103	IC4247-2	7.5 x 5.8 x 5.2m	4.0 x 4.0m	-
No.3 semi-anechoic chamber	148738	IC4247-3	12.0 x 8.5 x 5.9m	6.8 x 5.75m	No.3 Preparation room
No.3 shielded room	-	-	4.0 x 6.0 x 2.7m	N/A	-
No.4 semi-anechoic chamber	134570	IC4247-4	12.0 x 8.5 x 5.9m	6.8 x 5.75m	No.4 Preparation room
No.4 shielded room	-	-	4.0 x 6.0 x 2.7m	N/A	-
No.5 semi-anechoic chamber	-	-	6.0 x 6.0 x 3.9m	6.0 x 6.0m	-
No.6 shielded room	-	-	4.0 x 4.5 x 2.7m	4.75 x 5.4 m	-
No.6 measurement room	-	-	4.75 x 5.4 x 3.0m	4.75 x 4.15 m	-
No.7 shielded room	-	-	4.7 x 7.5 x 2.7m	4.7 x 7.5m	-
No.8 measurement room	-	-	3.1 x 5.0 x 2.7m	N/A	-

* Size of vertical conducting plane (for Conducted Emission test) : 2.0 x 2.0m for No.1, No.2, No.3, and No.4 semi-anechoic chambers and No.3 and No.4 shielded rooms.

3.6 Test set up, Test instruments and Data of EMI

Refer to APPENDIX 1 to 3.

SECTION 4: Operation of E.U.T. during testing

4.1 Operating Modes

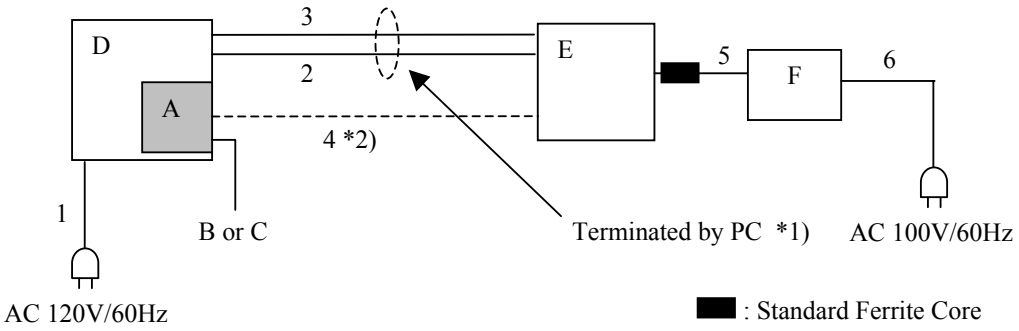
The mode used for test : Transmitting mode 11b (DQPSK 2Mbps (Worst), Packet type: Maximum, Payload: PN9)
- Low Channel : 2412MHz(Ch1)
- Mid Channel : 2437MHz(Ch6)
- High Channel : 2462MHz(Ch11)

Transmitting mode 11g (16QAM 24Mbps (Worst), Packet type: Maximum, Payload: PN9)
- Low Channel : 2412MHz(Ch1)
- Mid Channel : 2437MHz(Ch6)
- High Channel : 2462MHz(Ch11)

Receiving mode 11b/g
- Mid Channel : 2437MHz(Ch6)

* As a result of preliminary test, the formal test was performed with the above modes, which had the maximum rated power.

4.2 Configuration and peripherals



* Cabling and setup were taken into consideration and test data was taken under worse case conditions.
*1) After the test mode was set, the PC was turned off.
*2) After the test mode was set, the serial cable (No.4) was removed.

Description of EUT and Support equipment

No.	Item	Model number	Serial number	Manufacturer	Remarks
A	Wireless Module for Printer	FM33490	10	Canon Inc.	EUT
B	SFP Antenna	ANTB18-076A0	-	Canon Inc.	EUT
C	MFP Antenna	FU-06-09-003	-	Canon Inc.	EUT
D	Printer	LBP3460-US	KA-2006-0857	Canon inc.	-
E	PC	2647-LJ3	97-ALT8N	IBM	-
F	AC Adapter	02K6750	11S02K6750Z1 Z2UP29909J	IBM	-

List of cables used

No.	Name	Length (m)	Shield	
			Cable	Connector
1	AC Cable	2.0	Unshielded	Unshielded
2	LAN Cable	1.0 *1) 0.9 *2)	Unshielded	Unshielded
3	USB Cable	1.5 *1) 1.0 *2)	Shielded	Shielded
4	Serial Cable	1.5	Unshielded	Unshielded
5	DC Cable	1.8	Unshielded	Unshielded
6	AC Cable	1.0	Unshielded	Unshielded

*1) Used for other tests than Conducted Emission test
*2) Used for Conducted Emission test

SECTION 5: Conducted Emission

Test Procedure and conditions

EUT was placed on a wooden table of nominal size, 1m by 1.5m, raised 80cm above the conducting ground plane. The rear of tabletop was located 40cm to the vertical conducting plane. The rear of EUT, including peripherals aligned and flushed with rear of tabletop. All other surfaces of tabletop were at least 80cm from any other grounded conducting surface. EUT was located 80cm from a Line Impedance Stabilization Network (LISN)/ Artificial mains Network (AMN) and excess AC cable was bundled in center.

For the tests on EUT with other peripherals (as a whole system)
I/O cable and AC cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30cm to 40cm long and were hanged at a 40cm height to the ground plane. All unused 50ohm connectors of the LISN(AMN) were resistivity terminated in 50ohm when not connected to the measuring equipment.

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT in a Semi Anechoic Chamber or a Measurement Room.
The EUT was connected to a LISN (AMN).
An overview sweep with peak detection has been performed.

Detector : CISPR quasi-peak and average detector (IF BW 9 kHz)
Measurement range : 0.15-30MHz
Test data : APPENDIX 2
Test result : Pass

SECTION 6: Spurious Emission

[Conducted]
Test Procedure
The Out of Band Emission was measured with a spectrum analyzer connected to the antenna port.
Test data : APPENDIX 2
Test result : Pass

[Radiated]
Test Procedure
EUT was placed on a urethane platform of nominal size, 1m by 1.5m, raised 80cm above the conducting ground plane.
The Radiated Electric Field Strength intensity has been measured in a Semi Anechoic Chamber with a ground plane and at a distance of 3m(Below 10GHz) and 1m(Upper 10GHz).
The height of the measuring varied between 1 and 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.
The measurements were performed for both vertical and horizontal antenna polarization with the Test Receiver, or the Spectrum Analyzer (in linear mode).
The test was made with the detector (RBW/VBW) in the following table.
When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator confirmed 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on a radiated measurement.

20dBc was applied to the frequency over the limit of FCC 15.209 / Table 2 of RSS-210 2.7 (IC) and outside the restricted band of FCC15.205 / Table 1 of RSS-210 2.7 (IC).

Frequency	Below 1GHz	Above 1GHz
Instrument used	Test Receiver / Spectrum Analyzer	Spectrum Analyzer
Detector IF Bandwidth	QP: BW 120kHz(T/R) 20dBc : RBW: 100kHz VBW: 300kHz (S/A)	PK: RBW:1MHz/VBW: 1MHz AV: RBW:1MHz/VBW:10Hz 20dBc : RBW:100kHz/VBW:300kHz

The test was made on EUT at the normal use position.

The test was performed with the antenna angle of maximum noise as follows:

	Measuring Antenna	Antenna of EUT
SFP	Horizontal	90 deg.
MFP		X-axis

	Measuring Antenna	Antenna of EUT
SFP	Vertical	0 deg.
MFP		Y-axis

Test data : APPENDIX 2
Test result : Pass

SECTION 7: Bandwidth

Test Procedure

The bandwidth was measured with a spectrum analyzer connected to the antenna port.

Test data : **APPENDIX 2**
Test result : **Pass**

SECTION 8: Maximum Peak Output Power

Test Procedure

The Maximum Peak Output Power was measured with a power meter (tested bandwidth: 50MHz) connected to the antenna port.
It was measured based on "Power Output Option 1" of "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247 ".

Test data : **APPENDIX 2**
Test result : **Pass**

SECTION 9: Peak Power Density

[Conducted]
Test Procedure

The Peak Power Density was measured with a spectrum analyzer connected to the antenna port.
It was measured based on "PSD Option 1" of "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247 ".

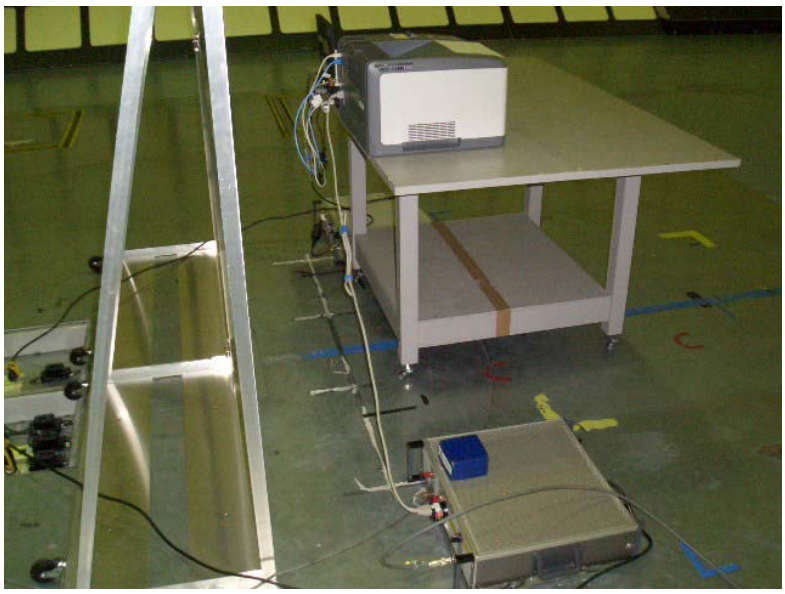
Test data : **APPENDIX 2**
Test result : **Pass**

APPENDIX 1: Photographs of test setup

Conducted Emission

Front

Side



UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Spurious Emission (Radiated)

Front

Rear

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
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Worst Case of Antenna Angle (Horizontal: 90 deg. / Vertical:0 deg.)

ANT: SFP

0 deg.

90 deg.

180 deg.

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4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
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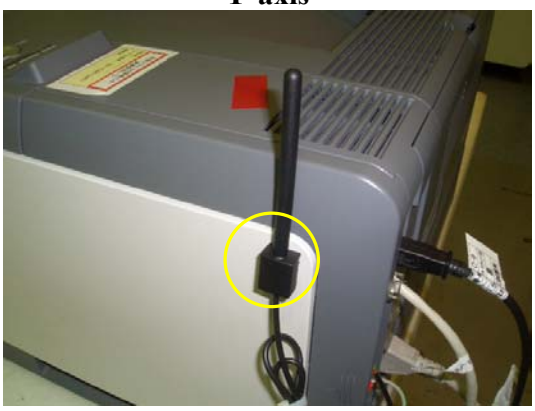
Worst Case Position (Horizontal: X-axis/ Vertical:Y-axis.)

ANT: MFP

X-axis

Y-axis



Y'-axis

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Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
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APPENDIX 2: Data of EMI test

Conducted Emission
ANT: SFP 11b Tx, Ch:Low

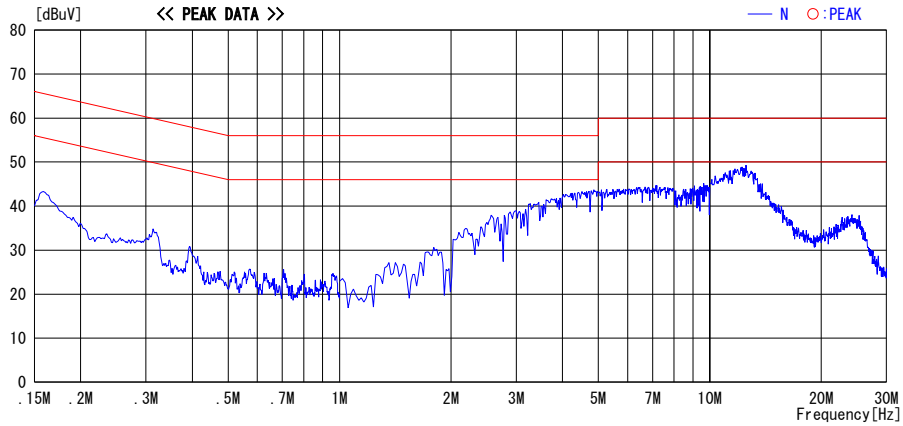
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/20

Company	: Canon Inc.	Report No.	: 28AE0101-HO
Kind of EUT	: Wireless Module for Printer	Power	: AC 120V / 60Hz (module DC 3.3V)
Model No.	: FM33490	Temp./Humi.	: 25deg.C / 59%
Serial No.	: 10	Operator	: Kenichi Adachi

Mode / Remarks : IEEE802.11b, Tx, 2Mbps(Worst), 2412MHz / Antenna Type: SFP

LIMIT : FCC15.207 QP
FCC15.207 AV



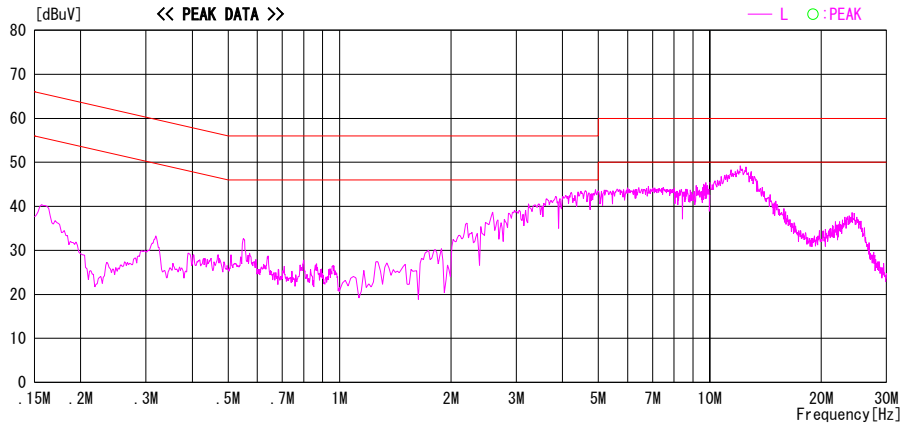


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
ANT: SFP 11b Tx, Ch:Low
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
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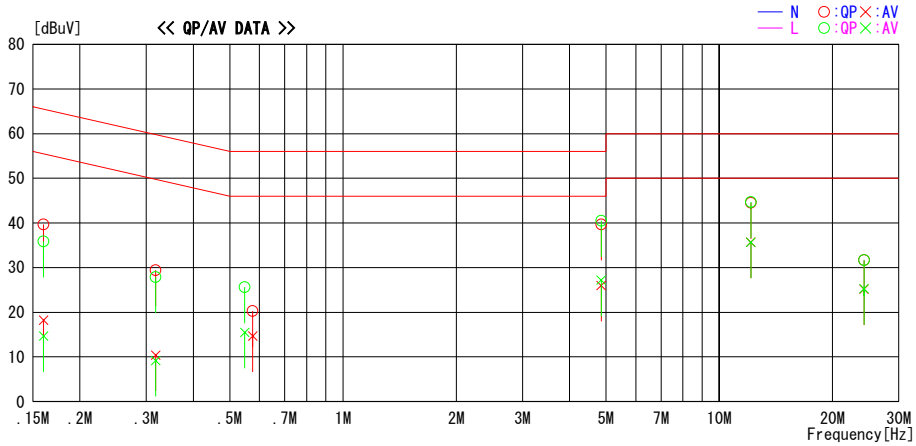
LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency	Reading Level		Corr.	Results		Limit		Margin		Phase	Comment
	QP	AV	Factor	QP	AV	QP	AV	QP	AV		
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]		
0.15998	39.5	18.0	0.2	39.7	18.2	65.5	55.5	25.8	37.3	N	
0.31757	29.1	10.1	0.3	29.4	10.4	59.8	49.8	30.4	39.4	N	
0.57540	20.0	14.4	0.3	20.3	14.7	56.0	46.0	35.7	31.3	N	
4.85544	38.8	25.1	0.9	39.7	26.0	56.0	46.0	16.3	20.0	N	
12.12650	42.9	34.1	1.6	44.5	35.7	60.0	50.0	15.5	14.3	N	
24.25416	29.2	22.7	2.5	31.7	25.2	60.0	50.0	28.3	24.8	N	
0.15998	35.7	14.5	0.2	35.9	14.7	65.5	55.5	29.6	40.8	L	
0.31757	27.6	8.9	0.3	27.9	9.2	59.8	49.8	31.9	40.6	L	
0.54801	25.3	15.2	0.3	25.6	15.5	56.0	46.0	30.4	30.5	L	
4.85544	39.6	26.3	0.9	40.5	27.2	56.0	46.0	15.5	18.8	L	
12.12650	43.1	34.1	1.6	44.7	35.7	60.0	50.0	15.3	14.3	L	
24.25416	29.2	22.8	2.5	31.7	25.3	60.0	50.0	28.3	24.7	L	

CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

*The test result is round off to one or two decimal places, so some differences might be observed.

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
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Conducted Emission
ANT: SFP 11b Tx, Ch:Mid
DATA OF CONDUCTED EMISSION TEST

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Date : 2007/08/20

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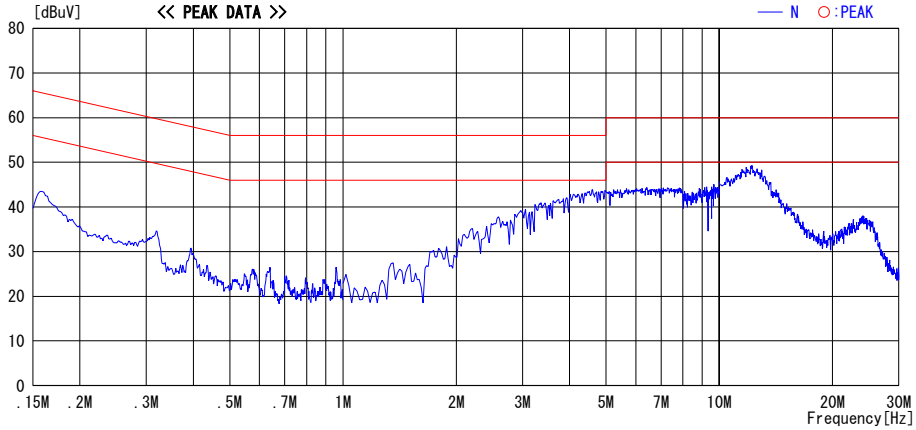
Serial No.	: 10	Operator	: Kenichi Adachi

Mode / Remarks : IEEE802.11b, Tx, 2Mbps(Worst), 2437MHz / Antenna Type: SFP

LIMIT : FCC15.207 QP
FCC15.207 AV



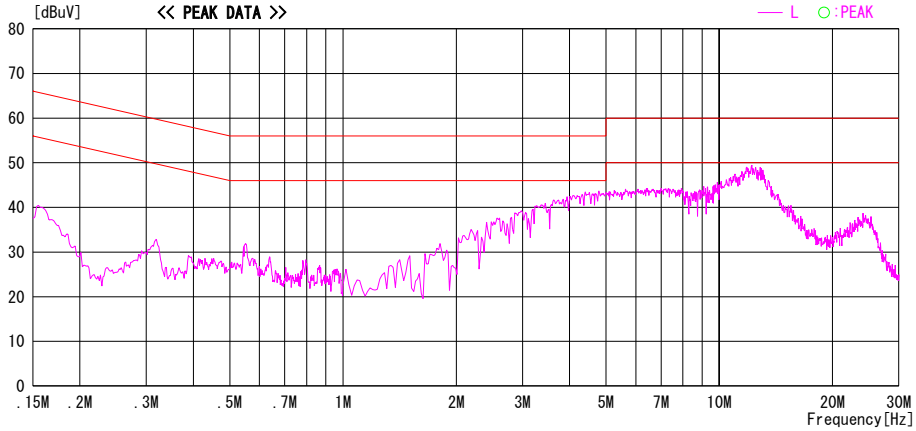


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
ANT: SFP 11b Tx, Ch:High
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/20

Company	: Canon Inc.	Report No.	: 28AE0101-HO
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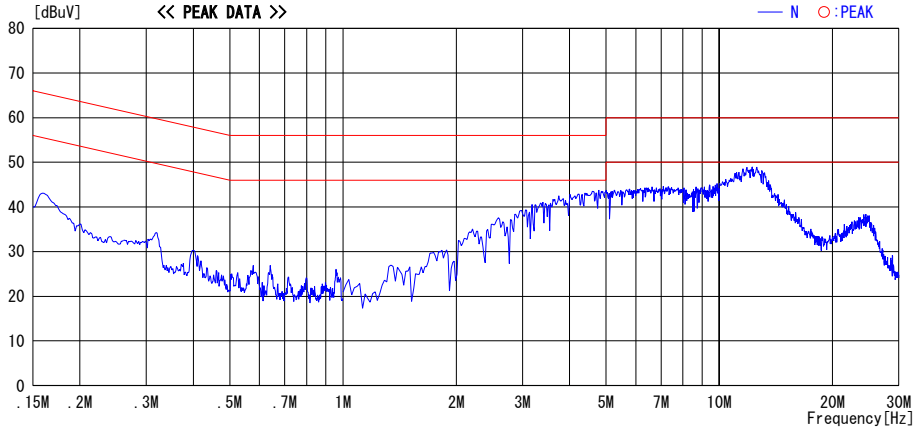
Model No.	: FM33490	Temp./Humi.	: 25deg.C / 59%
Serial No.	: 10	Operator	: Kenichi Adachi

Mode / Remarks : IEEE802.11b, Tx, 2Mbps(Worst), 2462MHz / Antenna Type: SFP

LIMIT : FCC15.207 QP
FCC15.207 AV



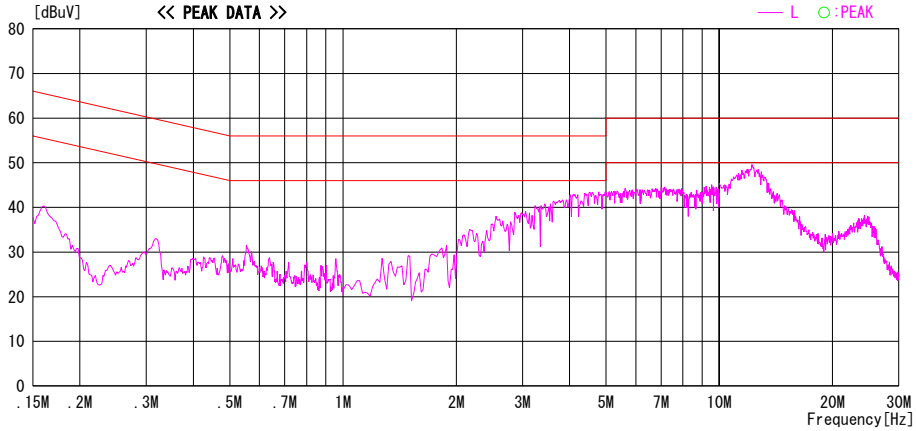


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

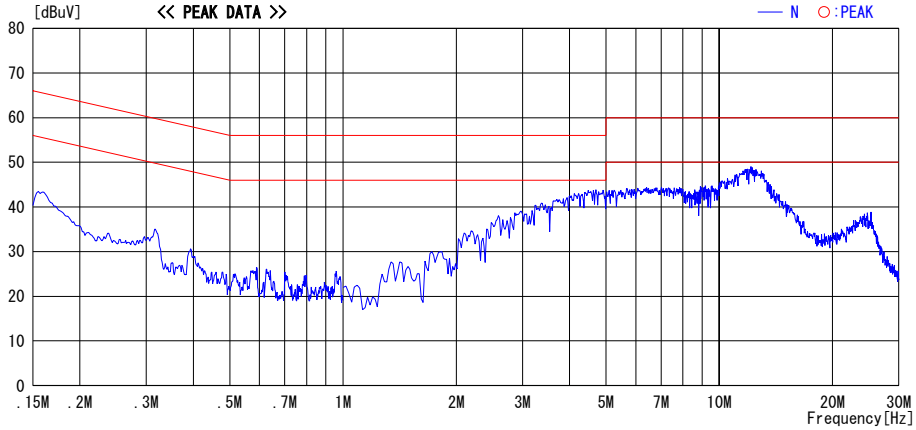
Conducted Emission
ANT: SFP 11g Tx, Ch:Low
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/20

Company	: Canon Inc.	Report No.	: 28AE0101-HO
Kind of EUT	: Wireless Module for Printer	Power	: AC 120V / 60Hz (module DC 3.3V)
Model No.	: FM33490	Temp./Humi.	: 25deg.C / 59%
Serial No.	: 10	Operator	: Kenichi Adachi

Mode / Remarks : IEEE802.11g, Tx, 24Mbps(Worst), 2412MHz / Antenna Type: SFP

LIMIT : FCC15.207 QP
FCC15.207 AV



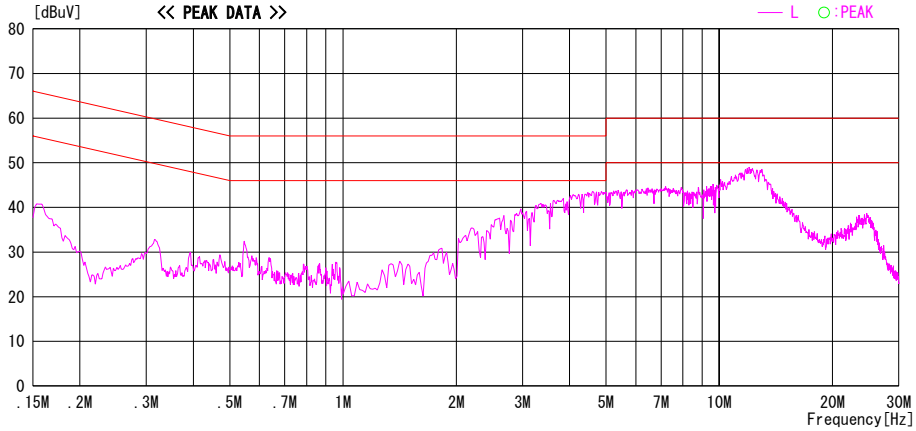


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

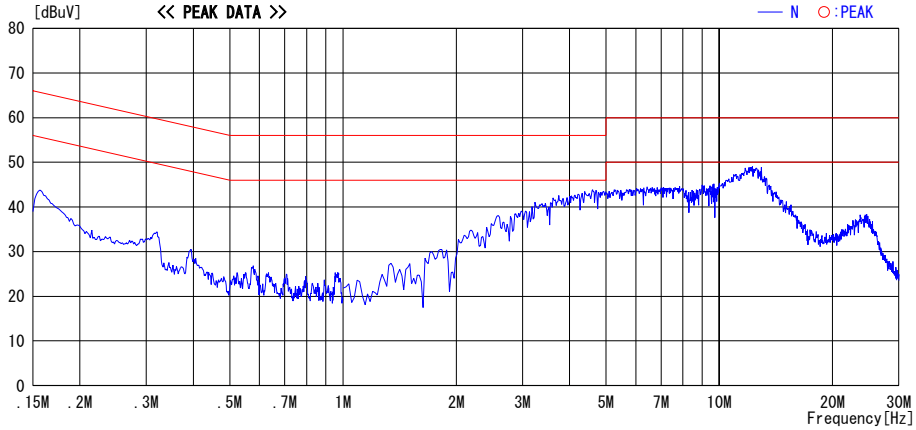
Conducted Emission
ANT: SFP 11g Tx, Ch:Mid
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/20

Company	: Canon Inc.	Report No.	: 28AE0101-HO
Kind of EUT	: Wireless Module for Printer	Power	: AC 120V / 60Hz (module DC 3.3V)
Model No.	: FM33490	Temp./Humi.	: 25deg.C / 59%
Serial No.	: 10	Operator	: Kenichi Adachi

Mode / Remarks : IEEE802.11g, Tx, 24Mbps(Worst), 2437MHz / Antenna Type: SFP

LIMIT : FCC15.207 QP
FCC15.207 AV



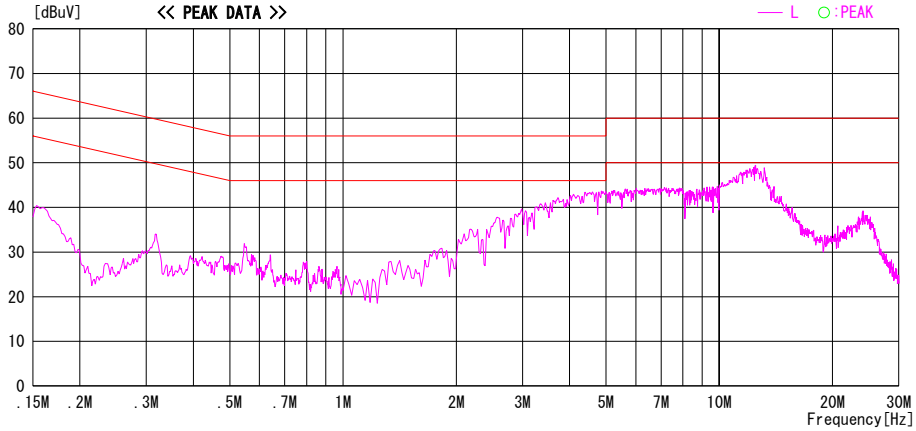


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

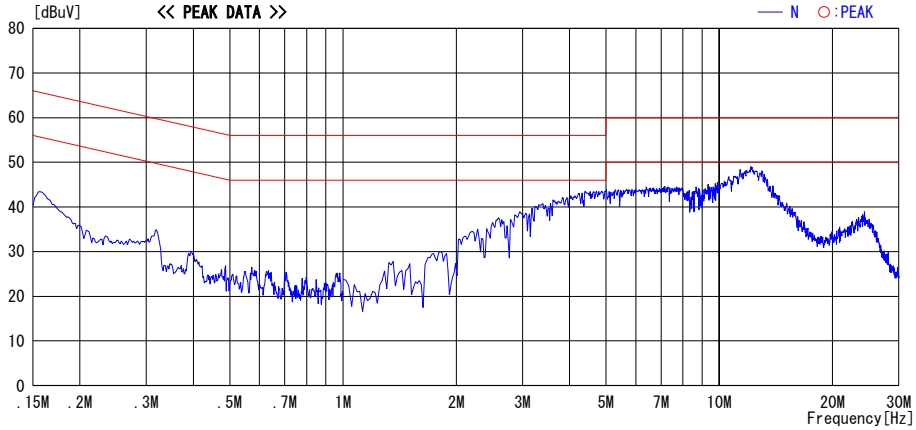
Conducted Emission
ANT: SFP 11g Tx, Ch:High
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/20

Company	: Canon Inc.	Report No.	: 28AE0101-HO
Kind of EUT	: Wireless Module for Printer	Power	: AC 120V / 60Hz (module DC 3.3V)
Model No.	: FM33490	Temp./Humi.	: 25deg.C / 59%
Serial No.	: 10	Operator	: Kenichi Adachi

Mode / Remarks : IEEE802.11g, Tx, 24Mbps(Worst), 2462MHz / Antenna Type: SFP

LIMIT : FCC15.207 QP
FCC15.207 AV



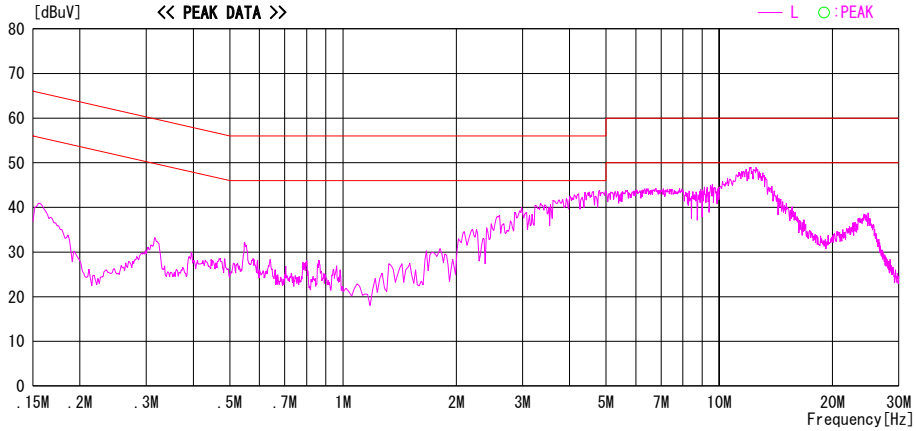


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

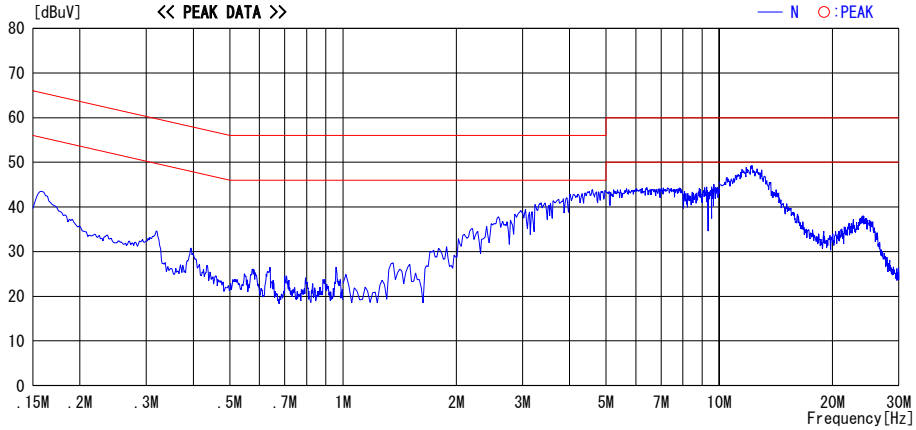
Conducted Emission
ANT: SFP 11b Rx, Ch:Mid
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/20

Company	: Canon Inc.	Report No.	: 28AE0101-HO
Kind of EUT	: Wireless Module for Printer	Power	: AC 120V / 60Hz (module DC 3.3V)
Model No.	: FM33490	Temp./Humi.	: 25deg.C / 59%
Serial No.	: 10	Operator	: Kenichi Adachi

Mode / Remarks : IEEE802.11b, Rx, 2Mbps(Worst), 2437MHz / Antenna Type: SFP

LIMIT : FCC15.107(a) QP
FCC15.107(a) AV



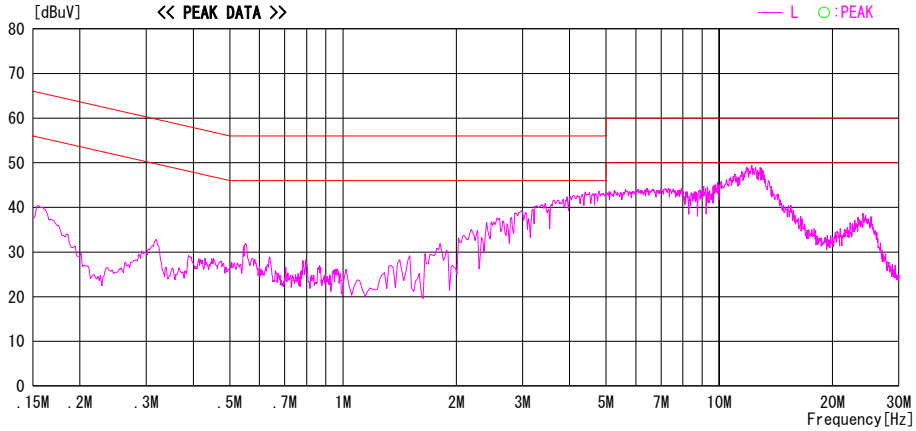


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
ANT: SFP 11g Rx, Ch:Mid
DATA OF CONDUCTED EMISSION TEST

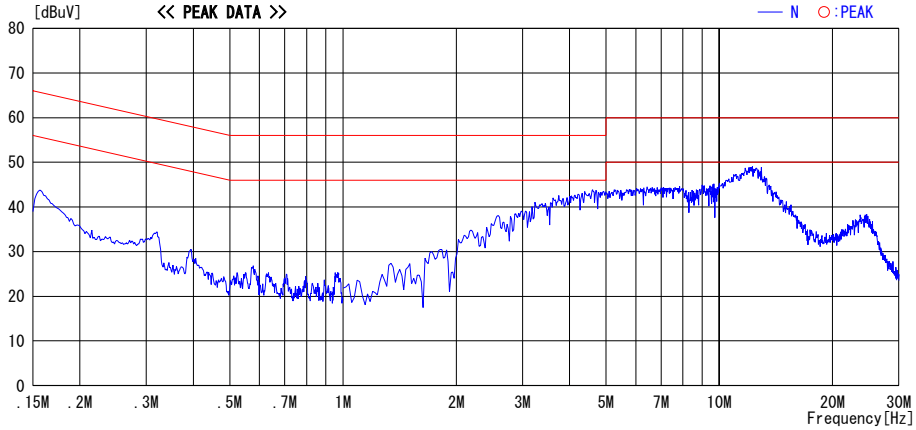
UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/20

Company : Canon Inc.
Kind of EUT : Wireless Module for Printer
Model No. : FM33490
Serial No. : 10

Report No. : 28AE0101-HO
Power : AC 120V / 60Hz (module DC 3.3V)
Temp./Humi. : 25deg.C / 59%
Operator : Kenichi Adachi

Mode / Remarks : IEEE802.11g, Rx, 24Mbps(Worst), 2437MHz / Antenna Type: SFP

LIMIT : FCC15.107(a) QP
FCC15.107(a) AV



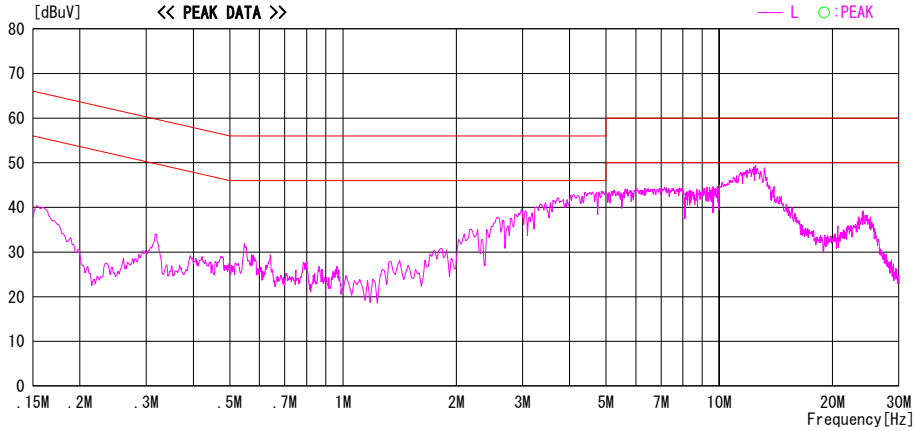


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

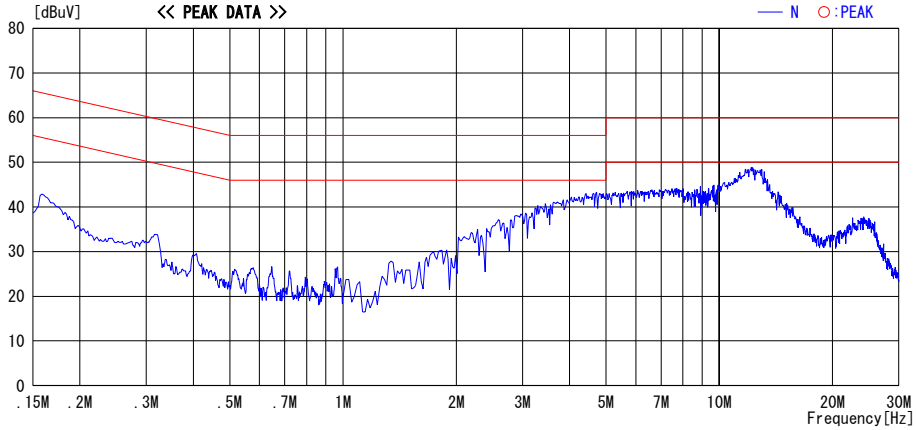
Conducted Emission
ANT: MFP 11b Tx, Ch:Low
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/20

Company	: Canon Inc.	Report No.	: 28AE0101-HO
Kind of EUT	: Wireless Module for Printer	Power	: AC 120V / 60Hz (module DC 3.3V)
Model No.	: FM33490	Temp./Humi.	: 25deg.C / 59%
Serial No.	: 10	Operator	: Kenichi Adachi

Mode / Remarks : IEEE802.11b, Tx, 2Mbps(Worst), 2412MHz / Antenna Type: MFP

LIMIT : FCC15.207 QP
FCC15.207 AV



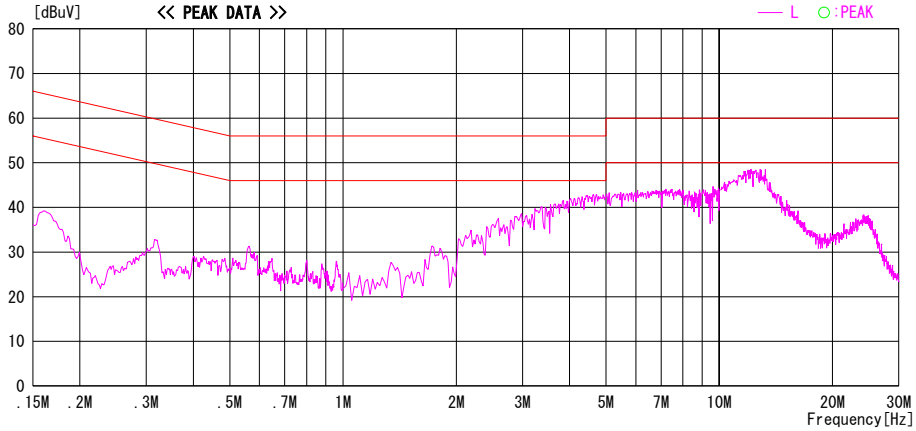


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

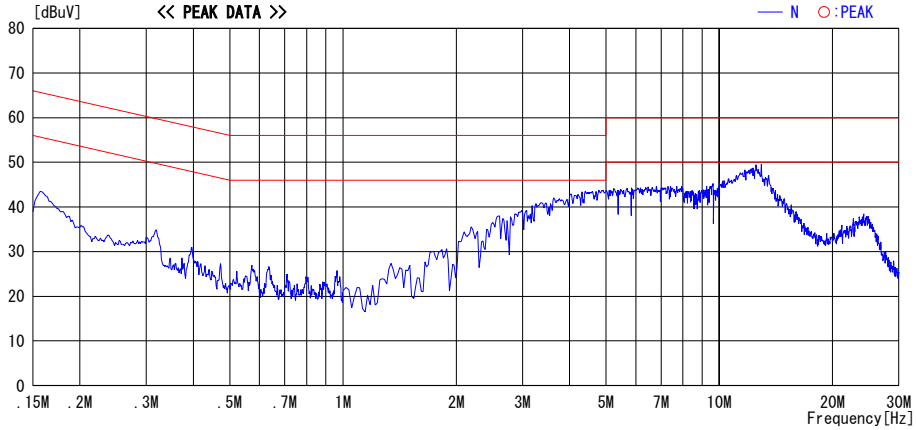
Conducted Emission
ANT: MFP 11b Tx, Ch:Mid
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/20

Company	: Canon Inc.	Report No.	: 28AE0101-HO
Kind of EUT	: Wireless Module for Printer	Power	: AC 120V / 60Hz (module DC 3.3V)
Model No.	: FM33490	Temp./Humi.	: 25deg.C / 59%
Serial No.	: 10	Operator	: Kenichi Adachi

Mode / Remarks : IEEE802.11b, Tx, 2Mbps(Worst), 2437MHz / Antenna Type: MFP

LIMIT : FCC15.207 QP
FCC15.207 AV



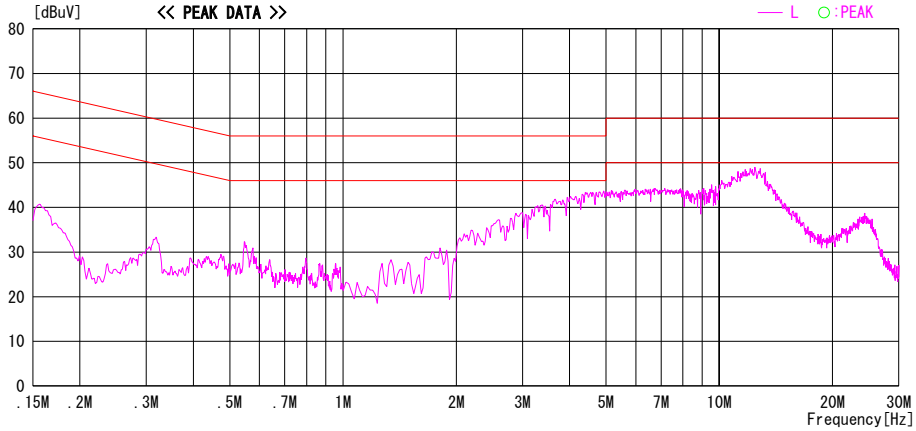


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

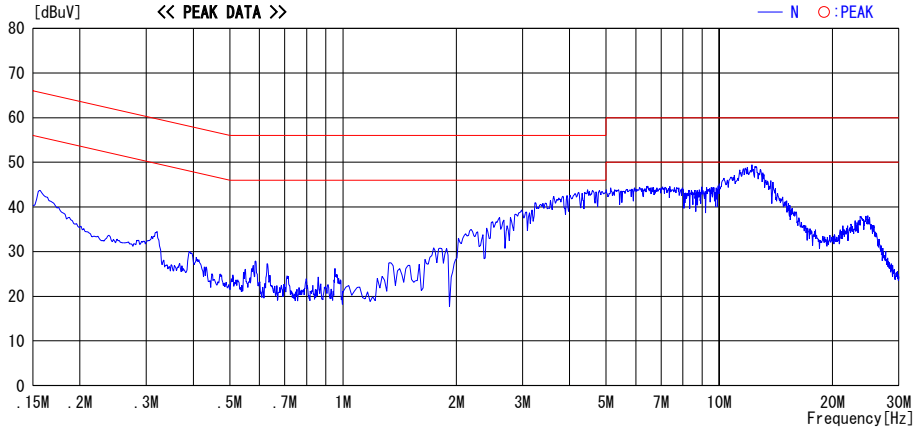
Conducted Emission
ANT: MFP 11b Tx, Ch:High
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/20

Company	: Canon Inc.	Report No.	: 28AE0101-HO
Kind of EUT	: Wireless Module for Printer	Power	: AC 120V / 60Hz (module DC 3.3V)
Model No.	: FM33490	Temp./Humi.	: 25deg.C / 59%
Serial No.	: 10	Operator	: Kenichi Adachi

Mode / Remarks : IEEE802.11b, Tx, 2Mbps(Worst), 2462MHz / Antenna Type: MFP

LIMIT : FCC15.207 QP
FCC15.207 AV



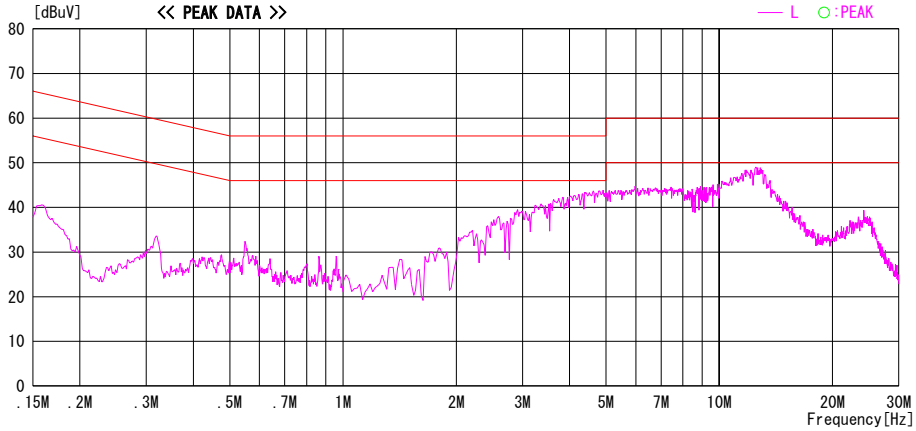


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

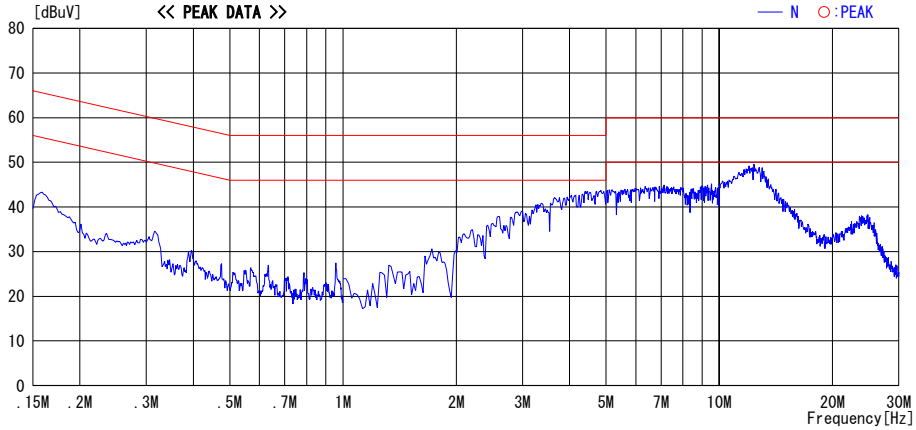
Conducted Emission
ANT: MFP 11g Tx, Ch:Low
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/20

Company	: Canon Inc.	Report No.	: 28AE0101-HO
Kind of EUT	: Wireless Module for Printer	Power	: AC 120V / 60Hz (module DC 3.3V)
Model No.	: FM33490	Temp./Humi.	: 25deg.C / 59%
Serial No.	: 10	Operator	: Kenichi Adachi

Mode / Remarks : IEEE802.11g, Tx, 24Mbps(Worst), 2412MHz / Antenna Type: MFP

LIMIT : FCC15.207 QP
FCC15.207 AV



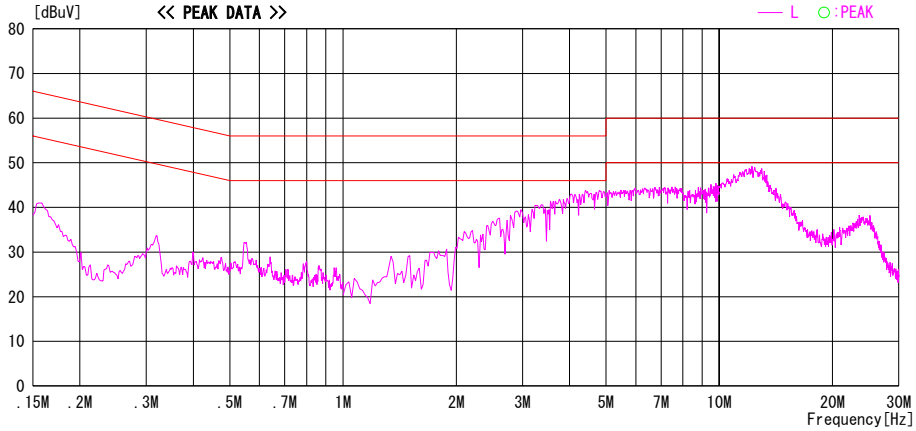


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

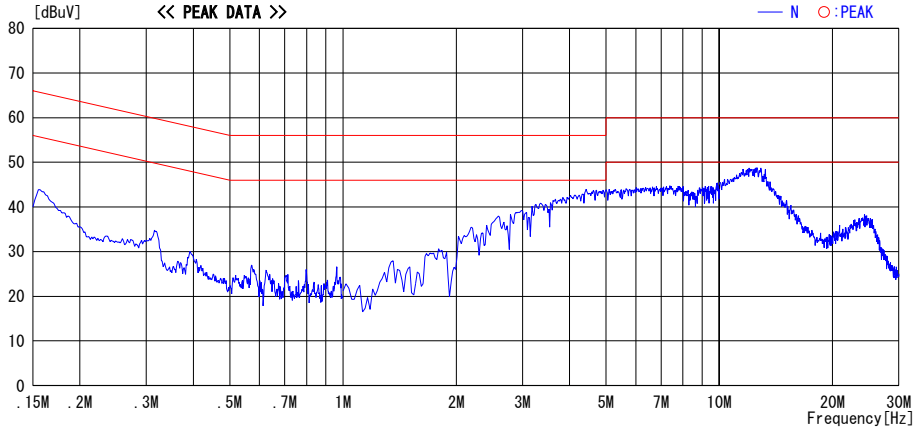
Conducted Emission
ANT: MFP 11g Tx, Ch:Mid
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/20

Company	: Canon Inc.	Report No.	: 28AE0101-HO
Kind of EUT	: Wireless Module for Printer	Power	: AC 120V / 60Hz (module DC 3.3V)
Model No.	: FM33490	Temp./Humi.	: 25deg.C / 59%
Serial No.	: 10	Operator	: Kenichi Adachi

Mode / Remarks : IEEE802.11g, Tx, 24Mbps(Worst), 2437MHz / Antenna Type: MFP

LIMIT : FCC15.207 QP
FCC15.207 AV



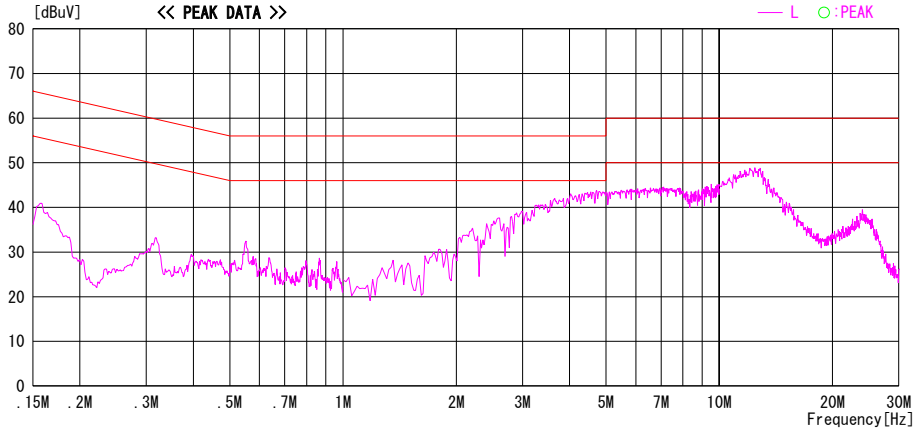


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

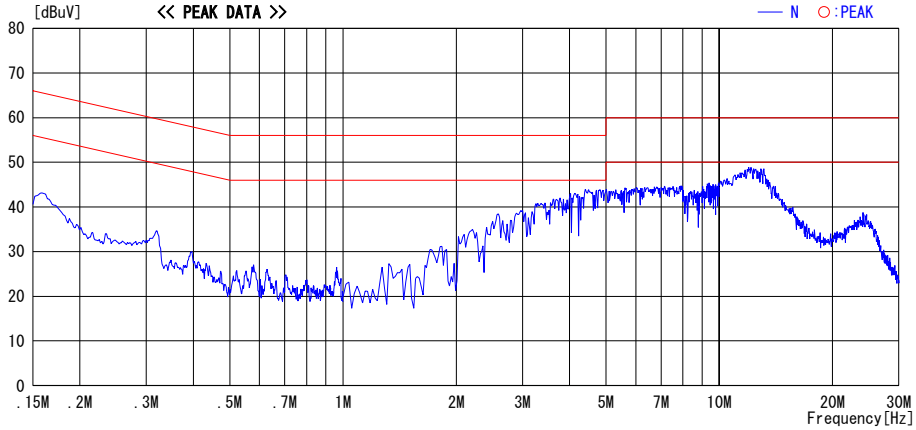
Conducted Emission
ANT: MFP 11g Tx, Ch:High
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/20

Company	: Canon Inc.	Report No.	: 28AE0101-HO
Kind of EUT	: Wireless Module for Printer	Power	: AC 120V / 60Hz (module DC 3.3V)
Model No.	: FM33490	Temp./Humi.	: 25deg.C / 59%
Serial No.	: 10	Operator	: Kenichi Adachi

Mode / Remarks : IEEE802.11g, Tx, 24Mbps(Worst), 2462MHz / Antenna Type: MFP

LIMIT : FCC15.207 QP
FCC15.207 AV



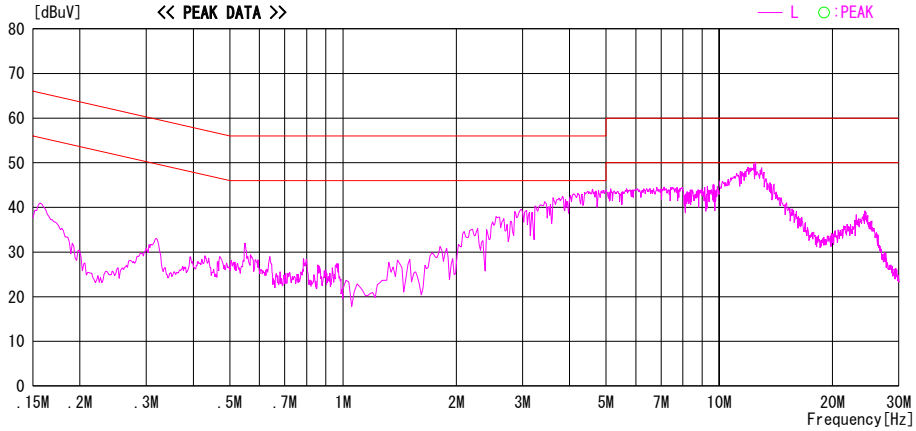


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

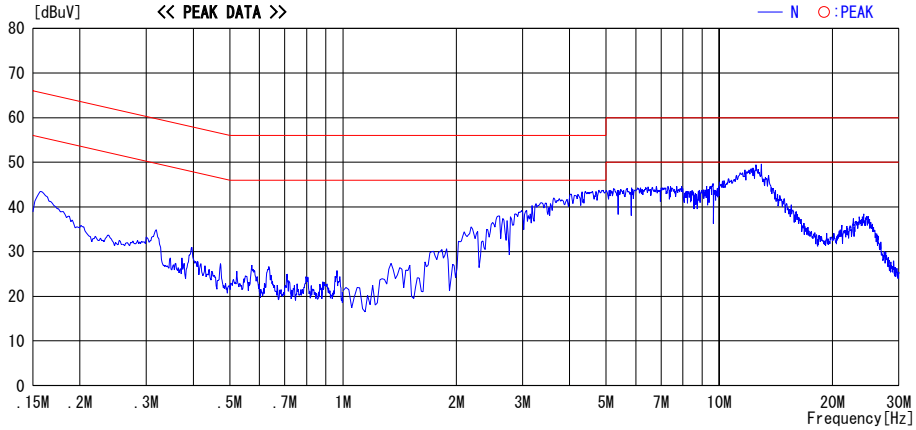
Conducted Emission
ANT: MFP 11b Rx, Ch:Mid
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/20

Company	: Canon Inc.	Report No.	: 28AE0101-HO
Kind of EUT	: Wireless Module for Printer	Power	: AC 120V / 60Hz (module DC 3.3V)
Model No.	: FM33490	Temp./Humi.	: 25deg.C / 59%
Serial No.	: 10	Operator	: Kenichi Adachi

Mode / Remarks : IEEE802.11b, Rx, 2Mbps(Worst), 2437MHz / Antenna Type: MFP

LIMIT : FCC15.107(a) QP
FCC15.107(a) AV



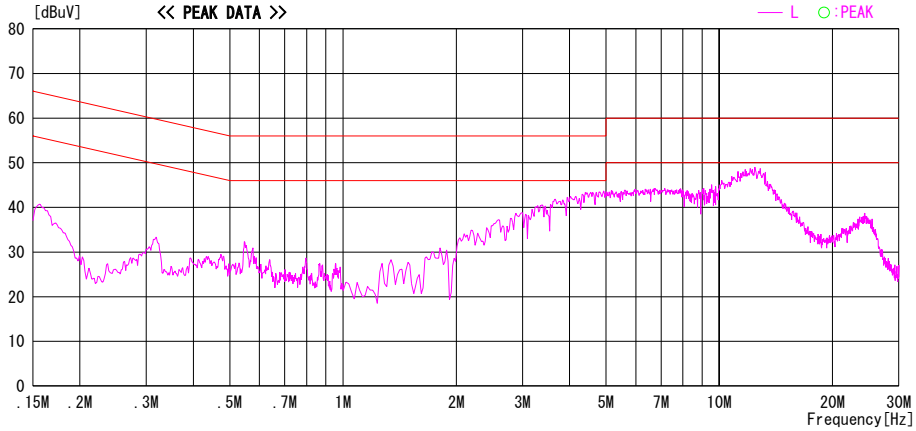


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

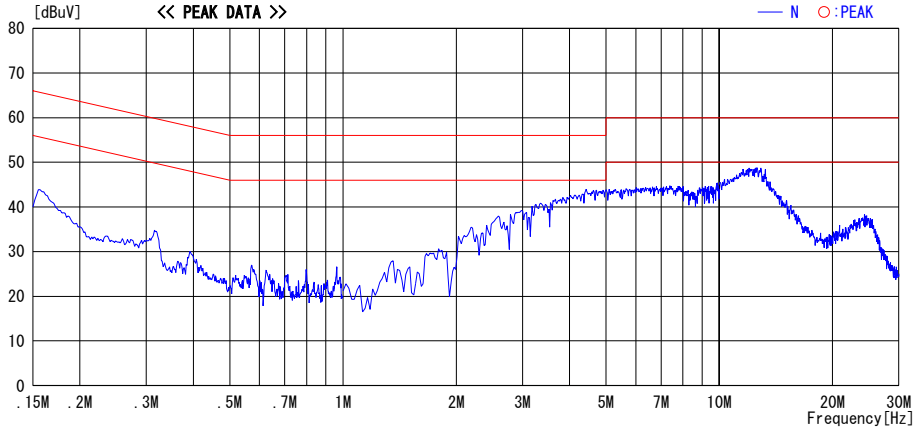
Conducted Emission
ANT: MFP 11g Rx, Ch:Mid
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/20

Company	: Canon Inc.	Report No.	: 28AE0101-HO
Kind of EUT	: Wireless Module for Printer	Power	: AC 120V / 60Hz (module DC 3.3V)
Model No.	: FM33490	Temp./Humi.	: 25deg.C / 59%
Serial No.	: 10	Operator	: Kenichi Adachi

Mode / Remarks : IEEE802.11g, Rx, 24Mbps(Worst), 2437MHz / Antenna Type: MFP

LIMIT : FCC15.107(a) QP
FCC15.107(a) AV



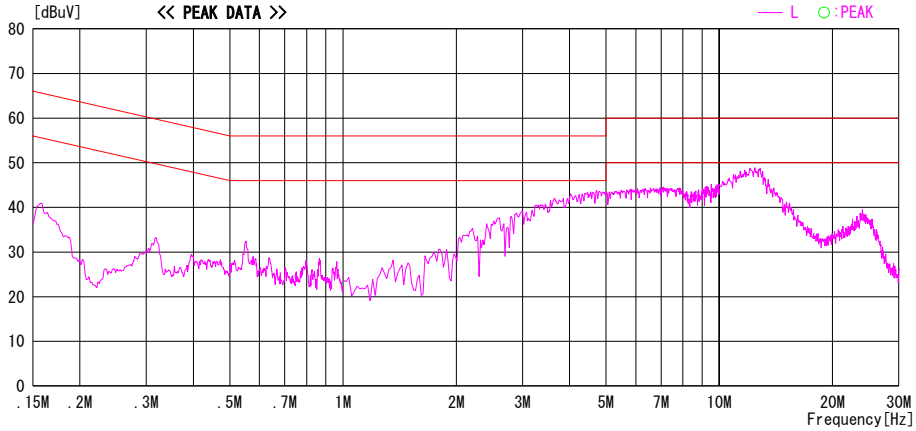


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

6dB Bandwidth

UL Japan, Inc.
Head Office EMC Lab. No.6 Shielded Room

Company	: Canon Inc.	REPORT NO	: 28AE0101-HO
Equipment	: Wireless Module for Printer	REGULATION	: FCC15.247(a)(2)/RSS-210A8.2(a)
Model	: FM33490	TEST DISTANCE	: -
Sample No.	: 10	DATE	: 08/12/07
Power	: AC120V/60Hz (DC3.3V)	TEMPERATURE	: 24deg.C.
Mode	: Tx (Ch L, M, H)	HUMIDITY	: 68%
		ENGINEER	: Makoto Kosaka

[IEEE802.11b : 2Mbps]

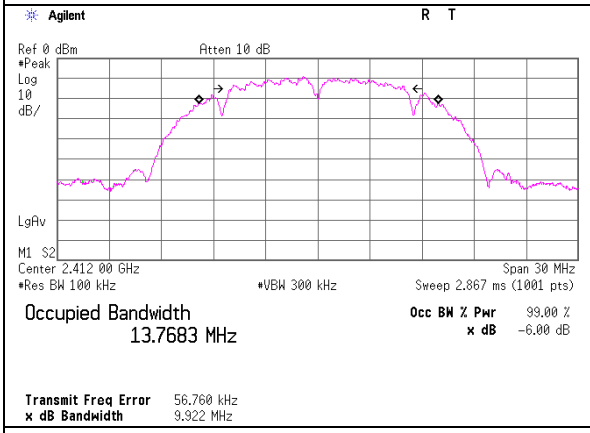
Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
Low	2412.0	9.922	>500
Mid	2437.0	9.922	>500
High	2462.0	9.937	>500

[IEEE802.11g : 24Mbps]

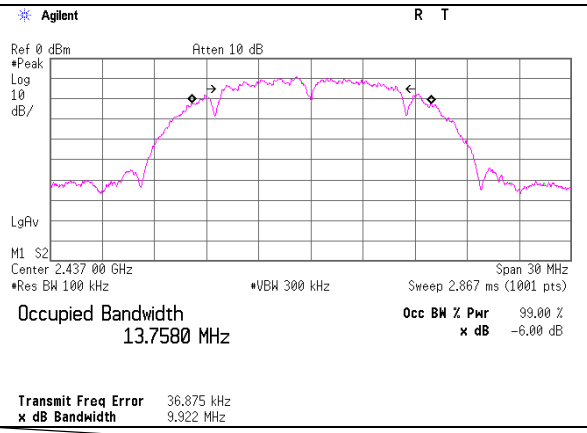
Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
Low	2412.0	16.537	>500
Mid	2437.0	16.538	>500
High	2462.0	16.529	>500

6dB Bandwidth
11b 2Mbps

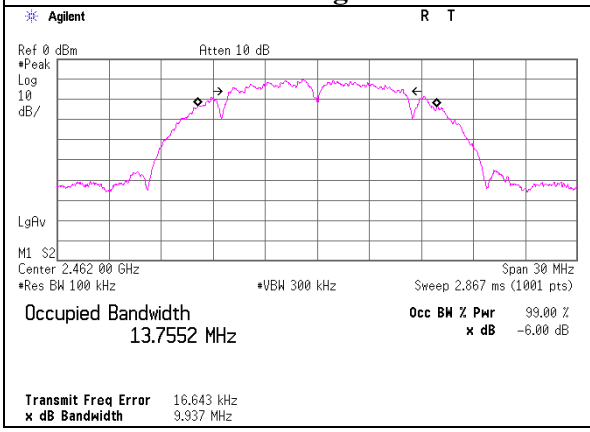
Ch:Low



Ch:Mid



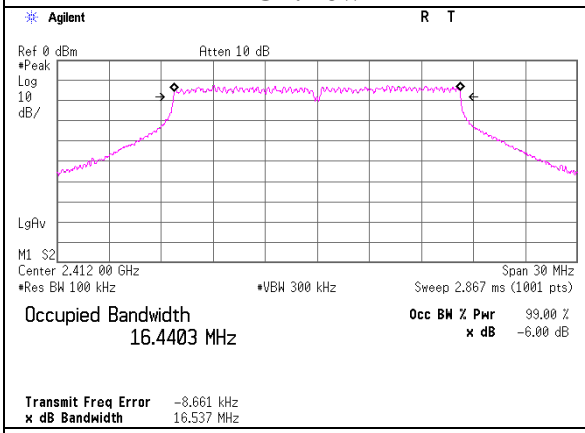
Ch:High



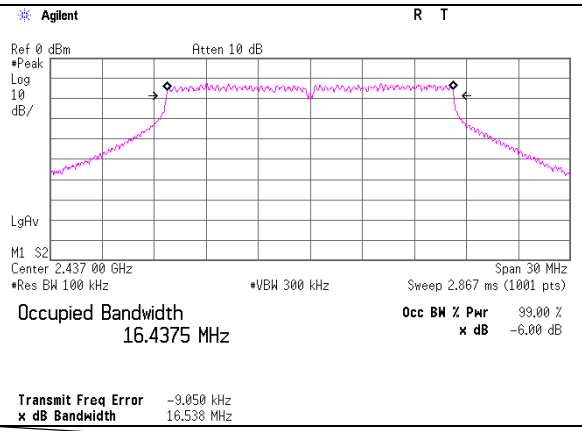
UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

6dB Bandwidth
11g 24Mbps

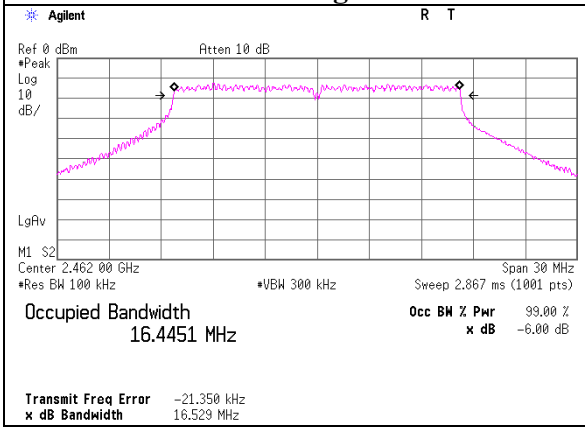
Ch:Low



Ch:Mid



Ch:High



UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Maximum Peak Output Power

UL Japan, Inc.
Head Office EMC Lab. No.6 Shielded Room

Company	: Canon Inc.	REPORT NO	: 28AE0101-HO
Equipment	: Wireless Module for Printer	REGULATION	: FCC15.247(b)(3)/RSS-210A8.4(4)
Model	: FM33490	TEST DISTANCE	: -
Sample No.	: 10	DATE	: 08/12/07
Power	: AC120V/60Hz (DC3.3V)	TEMPERATURE	: 23deg.C.
Mode	: Tx (Ch L, M, H)	HUMIDITY	: 68%
		ENGINEER	: Makoto Kosaka

[IEEE802.11b / 2Mbps]

Ch	Freq.	P/M Reading	Cable Loss	Atten.	Result		Limit		Margin
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2412.0	2.86	1.33	10.08	14.27	26.73	30.00	1000	15.73
Mid	2437.0	3.42	1.33	10.08	14.83	30.41	30.00	1000	15.17
High	2462.0	2.58	1.33	10.08	13.99	25.06	30.00	1000	16.01

Sample Calculation:
Result = Reading + Cable Loss (supplied by customer) + Attenuator
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

[IEEE802.11g / 24Mbps]

Ch	Freq.	P/M Reading	Cable Loss	Atten.	Result		Limit		Margin
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2412.0	9.73	1.33	10.08	21.14	130.02	30.00	1000	8.86
Mid	2437.0	10.01	1.33	10.08	21.42	138.68	30.00	1000	8.58
High	2462.0	9.73	1.33	10.08	21.14	130.02	30.00	1000	8.86

Sample Calculation:
Result = Reading + Cable Loss (supplied by customer) + Attenuator
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

Maximum Peak Output Power

UL Japan, Inc.
Head Office EMC Lab. No.6 Shielded Room

Company	: Canon Inc.	REPORT NO	: 28AE0101-HO
Equipment	: Wireless Module for Printer	REGULATION	: FCC15.247(b)(3)/RSS-210A8.4(4)
Model	: FM33490	TEST DISTANCE	: -
Sample No.	: 10	DATE	: 08/12/07
Power	: AC120V/60Hz (DC3.3V)	TEMPERATURE	: 23deg.C.
Mode	: Tx (Ch Mid)	HUMIDITY	: 68%
		ENGINEER	: Makoto Kosaka

[IEEE802.11b] Rate Check

Rate	Freq.	P/M PK Reading	Cable Loss	Atten.	Result	
[Mbps]	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]
1.0	2437.0	3.40	1.33	10.08	14.81	30.27
2.0	2437.0	3.42	1.33	10.08	14.83	30.41
5.5	2437.0	2.84	1.33	10.08	14.25	26.61
11.0	2437.0	3.35	1.33	10.08	14.76	29.92

[IEEE802.11b] Rate Check

Rate	Freq.	PM AVG Reading	Cable Loss	Atten.	Result	
[Mbps]	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]
1.0	2437.0	0.90	1.33	10.08	12.31	17.02
2.0	2437.0	0.89	1.33	10.08	12.30	16.98
5.5	2437.0	0.89	1.33	10.08	12.30	16.98
11.0	2437.0	0.86	1.33	10.08	12.27	16.87

[IEEE802.11g] Rate Check

Rate	Freq.	P/M PK Reading	Cable Loss	Atten.	Result	
[Mbps]	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]
6.0	2437.0	9.79	1.33	10.08	21.20	131.83
9.0	2437.0	9.58	1.33	10.08	20.99	125.60
12.0	2437.0	9.78	1.33	10.08	21.19	131.52
18.0	2437.0	9.12	1.33	10.08	20.53	112.98
24.0	2437.0	10.01	1.33	10.08	21.42	138.68
36.0	2437.0	9.94	1.33	10.08	21.35	136.46
48.0	2437.0	9.81	1.33	10.08	21.22	132.43
54.0	2437.0	9.57	1.33	10.08	20.98	125.31

[IEEE802.11g] Rate Check

Rate	Freq.	PM AVG Reading	Cable Loss	Atten.	Result	
[Mbps]	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]
6.0	2437.0	0.45	1.33	10.08	11.86	15.35
9.0	2437.0	0.41	1.33	10.08	11.82	15.21
12.0	2437.0	0.39	1.33	10.08	11.80	15.14
18.0	2437.0	0.43	1.33	10.08	11.84	15.28
24.0	2437.0	0.43	1.33	10.08	11.84	15.28
36.0	2437.0	0.36	1.33	10.08	11.77	15.03
48.0	2437.0	0.33	1.33	10.08	11.74	14.93
54.0	2437.0	0.37	1.33	10.08	11.78	15.07

Radiated Spurious Emission (below 1GHz)
ANT: SFP 11b Tx, Ch:Low

DATA OF RADIATED EMISSION TEST

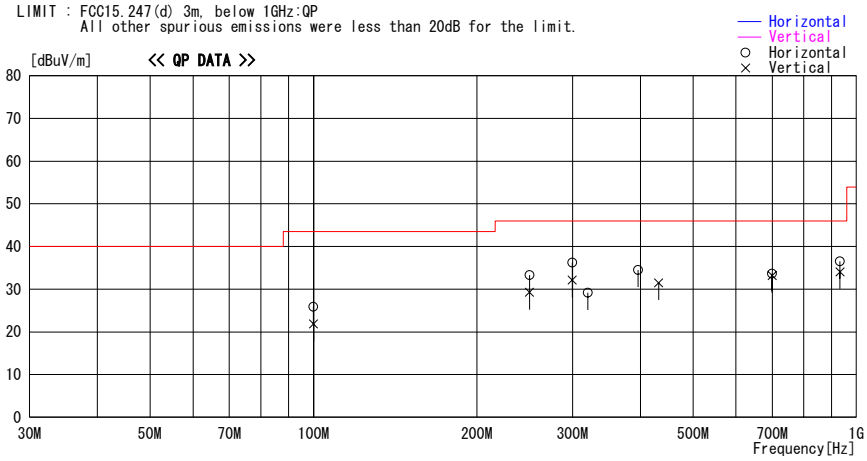
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/16

Company : Canon Inc.
Kind of EUT : Wireless Module for Printer
Model No. : FM33490
Serial No. : 10

Report No. : 28AE0101-HO
Power : AC 120V / 60Hz (DC 3.3V)
Temp./Humi. : 26deg.C / 59%
Operator : Takahiro Hatakeda

Mode / Remarks : IEEE802.11b, Tx, 2Mbps(Worst), 2412MHz / Antenna Type:SFP, Hor:90deg., Ver:0deg.(MAX)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
99.997	37.1	QP	10.1	-21.3	25.9	228	290	Hori.	43.5	17.6	
100.000	33.1	QP	10.1	-21.3	21.9	129	100	Vert.	43.5	21.6	
250.000	32.1	QP	16.7	-19.5	29.3	39	100	Vert.	46.0	16.7	
250.002	36.1	QP	16.7	-19.5	33.3	252	120	Hori.	46.0	12.7	
299.544	35.1	QP	20.1	-19.0	36.2	288	118	Hori.	46.0	9.8	
299.550	31.0	QP	20.1	-19.0	32.1	263	100	Vert.	46.0	13.9	
320.000	33.0	QP	15.3	-19.1	29.2	91	100	Hori.	46.0	16.8	
396.306	36.1	QP	17.8	-19.4	34.5	202	100	Hori.	46.0	11.5	
432.054	32.9	QP	18.1	-19.5	31.5	90	100	Vert.	46.0	14.5	
699.136	31.4	QP	20.3	-18.5	33.2	124	100	Vert.	46.0	12.8	
699.142	31.8	QP	20.3	-18.5	33.6	113	100	Hori.	46.0	12.4	
932.236	28.3	QP	22.5	-16.7	34.1	103	100	Vert.	46.0	11.9	
932.250	30.7	QP	22.5	-16.7	36.5	114	151	Hori.	46.0	9.5	

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is round off to one or two decimal places, so some differences might be observed.

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Radiated Spurious Emission (below 1GHz)
ANT: SFP 11b Tx, Ch:Mid

DATA OF RADIATED EMISSION TEST

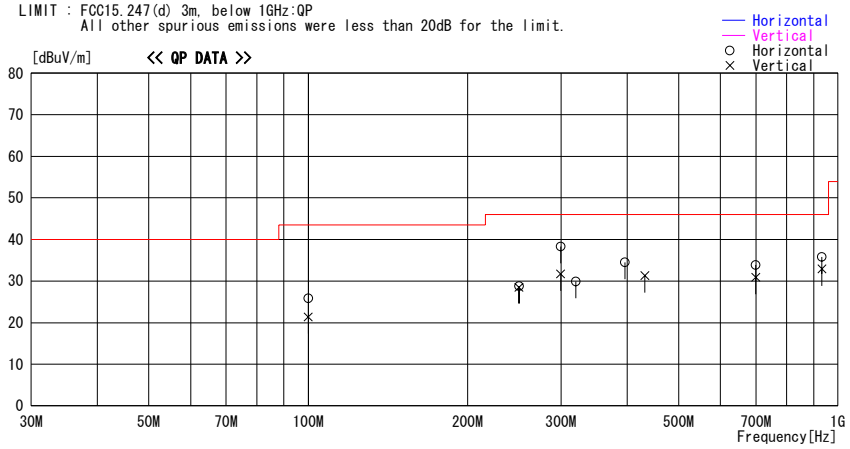
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/16

Company : Canon Inc.
Kind of EUT : Wireless Module for Printer
Model No. : FM33490
Serial No. : 10

Report No. : 28AE0101-HO
Power : AC 120V / 60Hz (DC 3.3V)
Temp./Humi. : 26deg.C / 59%
Operator : Takahiro Hatakeda

Mode / Remarks : IEEE802.11b, Tx, 2Mbps(Worst), 2437MHz / Antenna Type:SFP, Hor:90deg., Ver:0deg.(MAX)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
100.000	37.1	QP	10.1	-21.3	25.9	219	283	Hori.	43.5	17.6	
100.001	32.6	QP	10.1	-21.3	21.4	125	100	Vert.	43.5	22.1	
250.000	31.3	QP	16.7	-19.5	28.5	85	100	Vert.	46.0	17.5	
250.002	31.6	QP	16.7	-19.5	28.8	262	131	Hori.	46.0	17.2	
299.546	37.2	QP	20.1	-19.0	38.3	291	117	Hori.	46.0	7.7	
299.546	30.6	QP	20.1	-19.0	31.7	264	100	Vert.	46.0	14.3	
320.002	33.7	QP	15.3	-19.1	29.9	79	100	Hori.	46.0	16.1	
396.314	36.1	QP	17.8	-19.4	34.5	204	100	Hori.	46.0	11.5	
432.048	32.7	QP	18.1	-19.5	31.3	95	100	Vert.	46.0	14.7	
699.148	29.1	QP	20.3	-18.5	30.9	36	100	Vert.	46.0	15.1	
699.160	32.1	QP	20.3	-18.5	33.9	115	100	Hori.	46.0	12.1	
932.230	27.1	QP	22.5	-16.7	32.9	100	100	Vert.	46.0	13.1	
932.252	30.0	QP	22.5	-16.7	35.8	120	147	Hori.	46.0	10.2	

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is round off to one or two decimal places, so some differences might be observed.

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Radiated Spurious Emission (below 1GHz)
ANT: SFP 11b Tx, Ch:High

DATA OF RADIATED EMISSION TEST

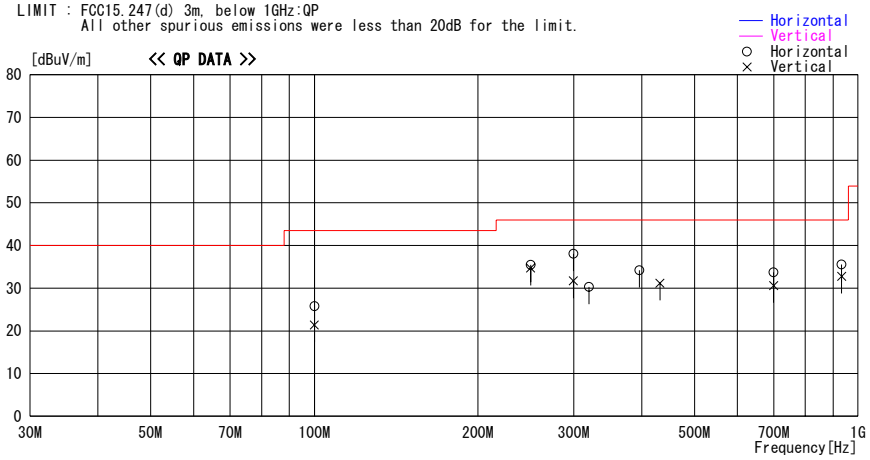
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/16

Company : Canon Inc.
Kind of EUT : Wireless Module for Printer
Model No. : FM33490
Serial No. : 10

Report No. : 28AE0101-HO
Power : AC 120V / 60Hz (DC 3.3V)
Temp./Humi. : 26deg.C / 59%
Operator : Takahiro Hatakeda

Mode / Remarks : IEEE802.11b, Tx, 2Mbps(Worst), 2462MHz / Antenna Type:SFP, Hor:90deg., Ver:0deg.(MAX)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
100.000	37.0	QP	10.1	-21.3	25.8	218	279	Hori.	43.5	17.7	
100.000	32.6	QP	10.1	-21.3	21.4	113	100	Vert.	43.5	22.1	
250.000	38.3	QP	16.7	-19.5	35.5	249	143	Hori.	46.0	10.5	
250.000	37.5	QP	16.7	-19.5	34.7	28	100	Vert.	46.0	11.3	
299.540	37.0	QP	20.1	-19.0	38.1	287	117	Hori.	46.0	7.9	
299.561	30.6	QP	20.1	-19.0	31.7	256	100	Vert.	46.0	14.3	
319.998	34.1	QP	15.3	-19.1	30.3	133	100	Hori.	46.0	15.7	
396.291	35.8	QP	17.8	-19.4	34.2	205	100	Hori.	46.0	11.8	
432.050	32.6	QP	18.1	-19.5	31.2	91	100	Vert.	46.0	14.8	
699.138	31.9	QP	20.3	-18.5	33.7	115	100	Hori.	46.0	12.3	
699.140	28.8	QP	20.3	-18.5	30.6	39	100	Vert.	46.0	15.4	
932.226	29.8	QP	22.5	-16.7	35.6	122	148	Hori.	46.0	10.4	
932.238	27.0	QP	22.5	-16.7	32.8	94	100	Vert.	46.0	13.2	

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (below 1GHz)
ANT: SFP 11g Tx, Ch:Low

DATA OF RADIATED EMISSION TEST

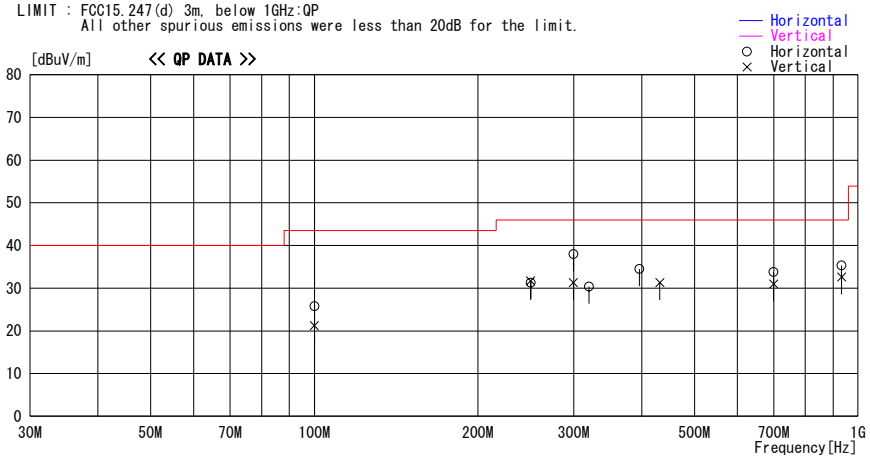
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/16

Company : Canon Inc.
Kind of EUT : Wireless Module for Printer
Model No. : FM33490
Serial No. : 10

Report No. : 28AE0101-HO
Power : AC 120V / 60Hz (DC 3.3V)
Temp./Humi. : 26deg.C / 59%
Operator : Takahiro Hatakeda

Mode / Remarks : IEEE802.11g, Tx, 24Mbps(Worst), 2412MHz / Antenna Type:SFP, Hor:90deg., Ver:0deg.(MAX)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
100.000	37.0	QP	10.1	-21.3	25.8	222	300	Hori.	43.5	17.7	
100.000	32.4	QP	10.1	-21.3	21.2	96	100	Vert.	43.5	22.3	
250.000	34.1	QP	16.7	-19.5	31.3	238	142	Hori.	46.0	14.7	
250.000	34.5	QP	16.7	-19.5	31.7	29	100	Vert.	46.0	14.3	
299.556	36.9	QP	20.1	-19.0	38.0	310	317	Hori.	46.0	8.0	
299.556	30.2	QP	20.1	-19.0	31.3	267	100	Vert.	46.0	14.7	
320.004	34.2	QP	15.3	-19.1	30.4	80	100	Hori.	46.0	15.6	
396.304	36.1	QP	17.8	-19.4	34.5	202	100	Hori.	46.0	11.5	
432.041	32.7	QP	18.1	-19.5	31.3	95	100	Vert.	46.0	14.7	
699.150	29.2	QP	20.3	-18.5	31.0	33	100	Vert.	46.0	15.0	
699.161	32.0	QP	20.3	-18.5	33.8	111	115	Hori.	46.0	12.2	
932.208	26.8	QP	22.5	-16.7	32.6	95	100	Vert.	46.0	13.4	
932.224	29.5	QP	22.5	-16.7	35.3	114	152	Hori.	46.0	10.7	

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is round off to one or two decimal places, so some differences might be observed.

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Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Radiated Spurious Emission (below 1GHz)
ANT: SFP 11g Tx, Ch:Mid

DATA OF RADIATED EMISSION TEST

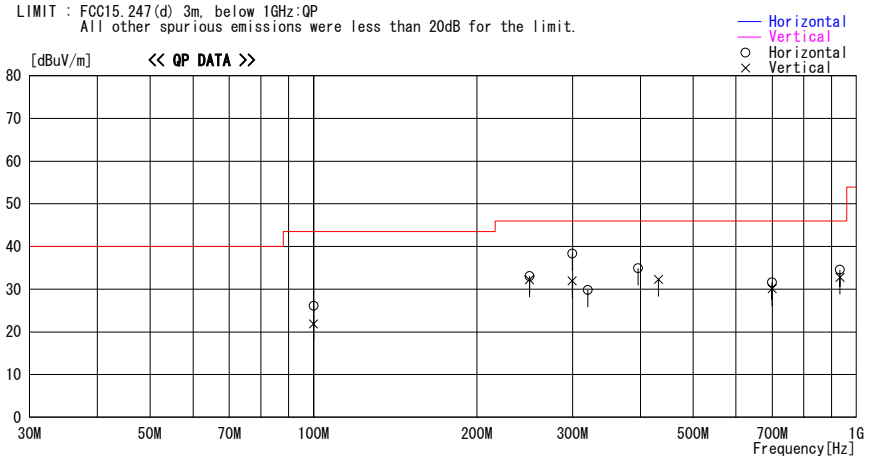
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/16

Company : Canon Inc.
Kind of EUT : Wireless Module for Printer
Model No. : FM33490
Serial No. : 10

Report No. : 28AE0101-HO
Power : AC 120V / 60Hz (DC 3.3V)
Temp./Humi. : 26deg.C / 59%
Operator : Takahiro Hatakeda

Mode / Remarks : IEEE802.11g, Tx, 24Mbps(Worst), 2437MHz / Antenna Type:SFP, Hor:90deg., Ver:0deg.(MAX)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
100.000	37.3	QP	10.1	-21.3	26.1	214	284	Hori.	43.5	17.4	
100.001	33.1	QP	10.1	-21.3	21.9	94	100	Vert.	43.5	21.6	
250.000	35.9	QP	16.7	-19.5	33.1	277	131	Hori.	46.0	12.9	
250.000	35.0	QP	16.7	-19.5	32.2	68	100	Vert.	46.0	13.8	
299.548	37.2	QP	20.1	-19.0	38.3	287	120	Hori.	46.0	7.7	
299.549	30.9	QP	20.1	-19.0	32.0	256	100	Vert.	46.0	14.0	
320.002	33.6	QP	15.3	-19.1	29.8	83	100	Hori.	46.0	16.2	
396.308	36.5	QP	17.8	-19.4	34.9	201	100	Hori.	46.0	11.1	
432.048	33.7	QP	18.1	-19.5	32.3	92	100	Vert.	46.0	13.7	
699.120	28.3	QP	20.3	-18.5	30.1	40	100	Vert.	46.0	15.9	
699.150	29.8	QP	20.3	-18.5	31.6	113	100	Hori.	46.0	14.4	
932.240	27.0	QP	22.5	-16.7	32.8	94	100	Vert.	46.0	13.2	
932.252	28.8	QP	22.5	-16.7	34.6	215	100	Hori.	46.0	11.4	

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (below 1GHz)
ANT: SFP 11g Tx, Ch:High

DATA OF RADIATED EMISSION TEST

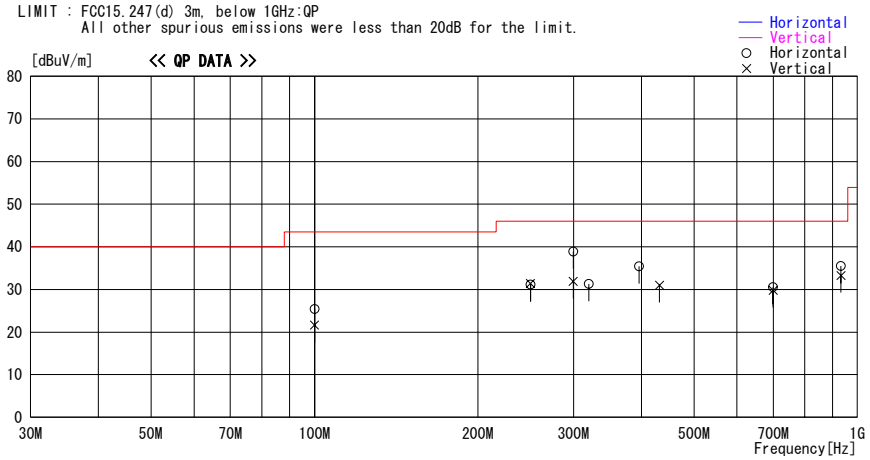
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/16

Company : Canon Inc.
Kind of EUT : Wireless Module for Printer
Model No. : FM33490
Serial No. : 10

Report No. : 28AE0101-HO
Power : AC 120V / 60Hz (DC 3.3V)
Temp./Humi. : 26deg.C / 59%
Operator : Takahiro Hatakeda

Mode / Remarks : IEEE802.11g, Tx, 24Mbps(Worst), 2462MHz / Antenna Type:SFP, Hor:90deg., Ver:0deg.(MAX)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
100.001	36.6	QP	10.1	-21.3	25.4	235	286	Hori.	43.5	18.1	
100.000	32.8	QP	10.1	-21.3	21.6	109	100	Vert.	43.5	21.9	
250.002	33.9	QP	16.7	-19.5	31.1	277	137	Hori.	46.0	14.9	
250.000	34.2	QP	16.7	-19.5	31.4	52	100	Vert.	46.0	14.6	
299.539	37.8	QP	20.1	-19.0	38.9	287	115	Hori.	46.0	7.1	
299.536	30.8	QP	20.1	-19.0	31.9	266	100	Vert.	46.0	14.1	
320.002	35.1	QP	15.3	-19.1	31.3	72	100	Hori.	46.0	14.7	
396.302	37.0	QP	17.8	-19.4	35.4	195	100	Hori.	46.0	10.6	
432.048	32.4	QP	18.1	-19.5	31.0	103	100	Vert.	46.0	15.0	
699.160	28.7	QP	20.3	-18.5	30.5	197	100	Hori.	46.0	15.5	
699.161	28.0	QP	20.3	-18.5	29.8	37	100	Vert.	46.0	16.2	
932.230	27.5	QP	22.5	-16.7	33.3	85	100	Vert.	46.0	12.7	
932.235	29.7	QP	22.5	-16.7	35.5	120	148	Hori.	46.0	10.5	

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is round off to one or two decimal places, so some differences might be observed.

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Radiated Spurious Emission (below 1GHz)
ANT: SFP 11b Rx, Ch:Mid

DATA OF RADIATED EMISSION TEST

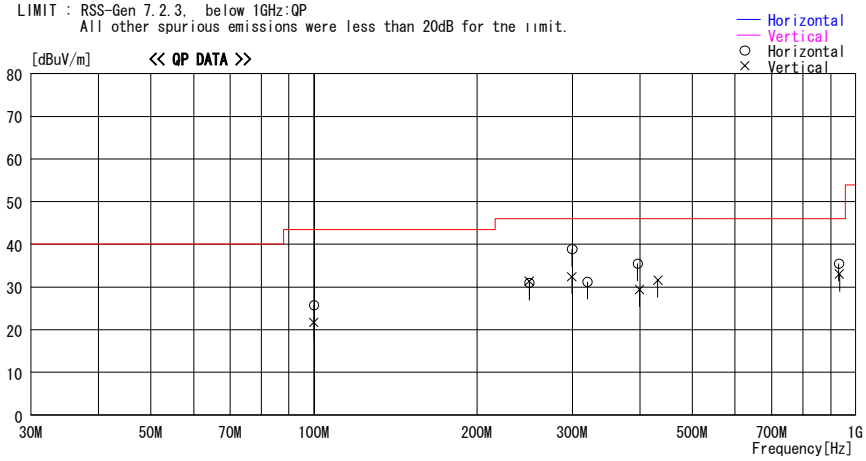
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/16

Company : Canon Inc.
Kind of EUT : Wireless Module for Printer
Model No. : FM33490
Serial No. : 10

Report No. : 28AE0101-HO
Power : AC 120V / 60Hz (DC 3.3V)
Temp./Humi. : 26deg.C / 59%
Operator : Takahiro Hatakeda

Mode / Remarks : IEEE802.11b, Rx, 2Mbps(Worst), 2437MHz / Antenna Type:SFP, Hor:90deg., Ver:0deg.(MAX)

LIMIT : RSS-Gen 7.2.3, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
100.000	37.0	QP	10.1	-21.3	25.8	212	288	Hori.	43.5	17.7	
100.001	32.9	QP	10.1	-21.3	21.7	117	100	Vert.	43.5	21.8	
250.001	33.8	QP	16.7	-19.5	31.0	289	136	Hori.	46.0	15.0	
250.001	34.1	QP	16.7	-19.5	31.3	49	100	Vert.	46.0	14.7	
299.541	31.3	QP	20.1	-19.0	32.4	260	100	Vert.	46.0	13.6	
299.543	37.8	QP	20.1	-19.0	38.9	292	116	Hori.	46.0	7.1	
319.998	35.0	QP	15.3	-19.1	31.2	67	100	Hori.	46.0	14.8	
396.311	37.1	QP	17.8	-19.4	35.5	200	100	Hori.	46.0	10.5	
399.430	30.8	QP	17.9	-19.3	29.4	359	235	Vert.	46.0	16.6	
432.044	33.0	QP	18.1	-19.5	31.6	93	100	Vert.	46.0	14.4	
932.233	29.7	QP	22.5	-16.7	35.5	117	148	Hori.	46.0	10.5	
934.231	27.2	QP	22.5	-16.7	33.0	96	100	Vert.	46.0	13.0	

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (below 1GHz)
ANT: SFP 11g Rx, Ch:Mid

DATA OF RADIATED EMISSION TEST

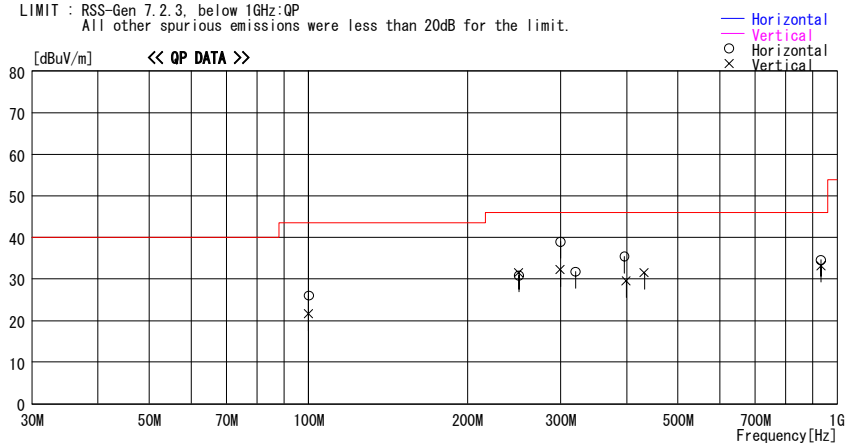
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/16

Company : Canon Inc.
Kind of EUT : Wireless Module for Printer
Model No. : FM33490
Serial No. : 10

Report No. : 28AE0101-HO
Power : AC 120V / 60Hz (DC 3.3V)
Temp./Humi. : 26deg.C / 59%
Operator : Takahiro Hatakeda

Mode / Remarks : IEEE802.11g, Rx, 24Mbps(Worst), 2437MHz / Antenna Type:SFP, Hor:90deg., Ver:0deg.(MAX)

LIMIT : RSS-Gen 7.2.3, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
100.000	37.2	QP	10.1	-21.3	26.0	205	291	Hori.	43.5	17.5	
100.000	32.8	QP	10.1	-21.3	21.6	125	100	Vert.	43.5	21.9	
250.000	33.7	QP	16.7	-19.5	30.9	278	119	Hori.	46.0	15.1	
250.001	34.3	QP	16.7	-19.5	31.5	54	100	Vert.	46.0	14.5	
299.545	37.9	QP	20.1	-19.0	39.0	289	115	Hori.	46.0	7.0	
299.549	31.1	QP	20.1	-19.0	32.2	250	100	Vert.	46.0	13.8	
319.998	35.6	QP	15.3	-19.1	31.8	74	100	Hori.	46.0	14.2	
396.311	37.0	QP	17.8	-19.4	35.4	207	100	Hori.	46.0	10.6	
399.434	30.9	QP	17.9	-19.3	29.5	359	239	Vert.	46.0	16.5	
432.050	32.9	QP	18.1	-19.5	31.5	94	100	Vert.	46.0	14.5	
932.233	27.4	QP	22.5	-16.7	33.2	87	100	Vert.	46.0	12.8	
932.258	28.8	QP	22.5	-16.7	34.6	121	148	Hori.	46.0	11.4	

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is round off to one or two decimal places, so some differences might be observed.

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Radiated Spurious Emission (below 1GHz)
ANT: MFP 11b Tx, Ch:Low

DATA OF RADIATED EMISSION TEST

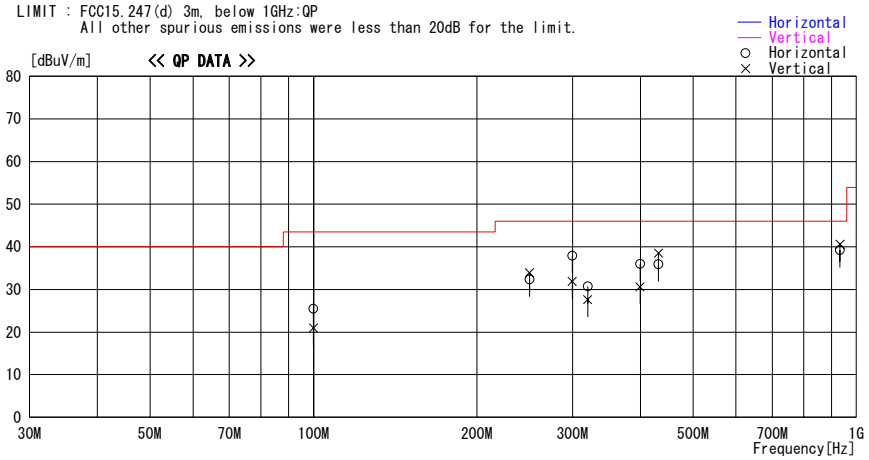
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/17

Company : Canon Inc.
Kind of EUT : Wireless Module for Printer
Model No. : FM33490
Serial No. : 10

Report No. : 28AE0101-HO
Power : AC 120V / 60Hz (DC 3.3V)
Temp./Humi. : 24deg.C / 56%
Operator : Takahiro Hatakeda

Mode / Remarks : IEEE802.11b, Tx, 2Mbps(Worst), 2412MHz / Antenna Type:MFP, Hor:X-axis, Ver:Y-axis(MAX)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
99.998	36.7	QP	10.1	-21.3	25.5	228	278	Hori.	43.5	18.0	
99.999	32.2	QP	10.1	-21.3	21.0	124	100	Vert.	43.5	22.5	
250.000	35.1	QP	16.7	-19.5	32.3	293	125	Hori.	46.0	13.7	
250.000	36.7	QP	16.7	-19.5	33.9	70	100	Vert.	46.0	12.1	
299.540	36.8	QP	20.1	-19.0	37.9	297	111	Hori.	46.0	8.1	
299.541	30.8	QP	20.1	-19.0	31.9	251	100	Vert.	46.0	14.1	
319.998	34.5	QP	15.3	-19.1	30.7	57	100	Hori.	46.0	15.3	
319.999	31.4	QP	15.3	-19.1	27.6	180	182	Vert.	46.0	18.4	
399.425	37.4	QP	17.9	-19.3	36.0	204	100	Hori.	46.0	10.0	
399.430	32.0	QP	17.9	-19.3	30.6	109	100	Vert.	46.0	15.4	
432.048	39.9	QP	18.1	-19.5	38.5	103	100	Vert.	46.0	7.5	
432.049	37.3	QP	18.1	-19.5	35.9	56	100	Hori.	46.0	10.1	
932.242	33.4	QP	22.5	-16.7	39.2	58	220	Hori.	46.0	6.8	
932.242	34.8	QP	22.5	-16.7	40.6	80	100	Vert.	46.0	5.4	

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is round off to one or two decimal places, so some differences might be observed.

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Radiated Spurious Emission (below 1GHz)
ANT: MFP 11b Tx, Ch:Mid

DATA OF RADIATED EMISSION TEST

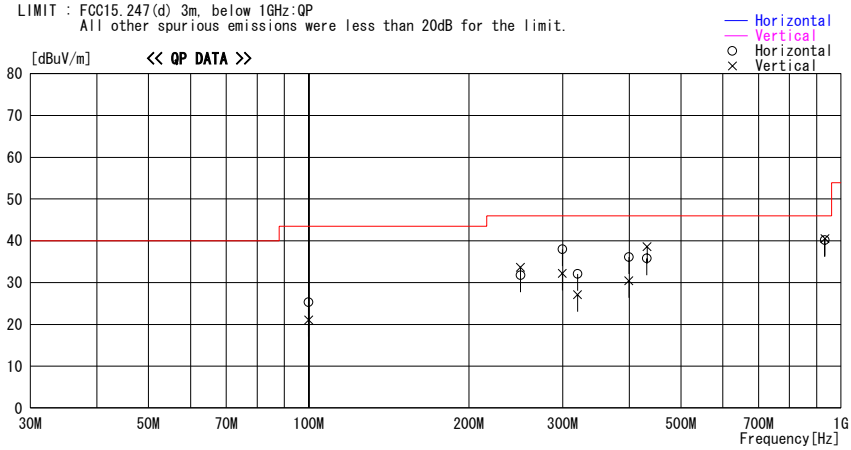
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/17

Company : Canon Inc.
Kind of EUT : Wireless Module for Printer
Model No. : FM33490
Serial No. : 10

Report No. : 28AE0101-HO
Power : AC 120V / 60Hz (DC 3.3V)
Temp./Humi. : 24deg.C / 56%
Operator : Takahiro Hatakeda

Mode / Remarks : IEEE802.11b, Tx, 2Mbps(Worst), 2437MHz / Antenna Type:MFP, Hor:X-axis, Ver:Y-axis(MAX)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
99.998	32.3	QP	10.1	-21.3	21.1	105	100	Vert.	43.5	22.4	
99.999	36.5	QP	10.1	-21.3	25.3	232	297	Hori.	43.5	18.2	
250.001	34.6	QP	16.7	-19.5	31.8	280	139	Hori.	46.0	14.2	
250.002	36.5	QP	16.7	-19.5	33.7	87	100	Vert.	46.0	12.3	
299.533	31.1	QP	20.1	-19.0	32.2	258	100	Vert.	46.0	13.8	
299.539	36.9	QP	20.1	-19.0	38.0	296	114	Hori.	46.0	8.0	
319.997	35.9	QP	15.3	-19.1	32.1	91	100	Hori.	46.0	13.9	
319.998	30.9	QP	15.3	-19.1	27.1	167	176	Vert.	46.0	18.9	
399.432	31.8	QP	17.9	-19.3	30.4	115	100	Vert.	46.0	15.6	
399.437	37.5	QP	17.9	-19.3	36.1	201	100	Hori.	46.0	9.9	
432.047	37.2	QP	18.1	-19.5	35.8	51	100	Hori.	46.0	10.2	
432.054	40.0	QP	18.1	-19.5	38.6	86	100	Vert.	46.0	7.4	
932.234	34.4	QP	22.5	-16.7	40.2	58	188	Hori.	46.0	5.8	
932.234	34.7	QP	22.5	-16.7	40.5	83	100	Vert.	46.0	5.5	

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (below 1GHz)
ANT: MFP 11b Tx, Ch:High

DATA OF RADIATED EMISSION TEST

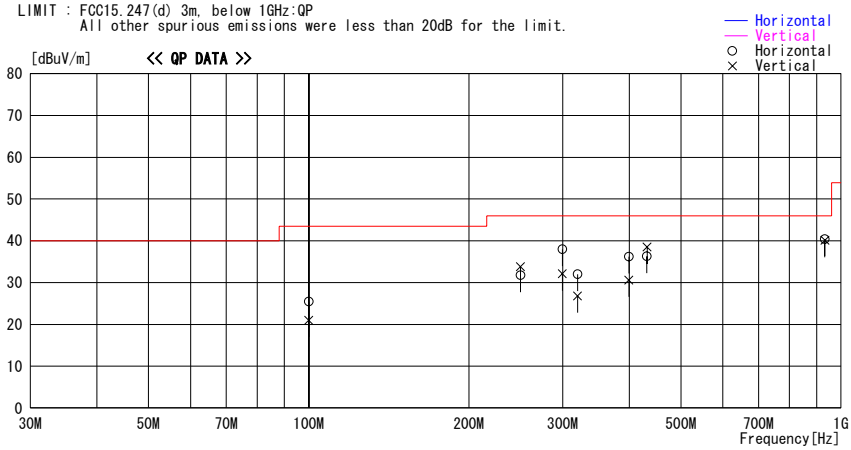
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/17

Company : Canon Inc.
Kind of EUT : Wireless Module for Printer
Model No. : FM33490
Serial No. : 10

Report No. : 28AE0101-HO
Power : AC 120V / 60Hz (DC 3.3V)
Temp./Humi. : 24deg.C / 56%
Operator : Takahiro Hatakeda

Mode / Remarks : IEEE802.11b, Tx, 2Mbps(Worst), 2462MHz / Antenna Type:MFP, Hor:X-axis, Ver:Y-axis(MAX)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
100.000	36.7	QP	10.1	-21.3	25.5	215	296	Hori.	43.5	18.0	
100.000	32.2	QP	10.1	-21.3	21.0	102	100	Vert.	43.5	22.5	
250.000	34.6	QP	16.7	-19.5	31.8	274	130	Hori.	46.0	14.2	
250.000	36.6	QP	16.7	-19.5	33.8	81	100	Vert.	46.0	12.2	
299.545	36.9	QP	20.1	-19.0	38.0	294	116	Hori.	46.0	8.0	
299.555	31.0	QP	20.1	-19.0	32.1	257	100	Vert.	46.0	13.9	
320.002	35.8	QP	15.3	-19.1	32.0	65	100	Hori.	46.0	14.0	
320.003	30.6	QP	15.3	-19.1	26.8	181	170	Vert.	46.0	19.2	
399.431	32.0	QP	17.9	-19.3	30.6	111	100	Vert.	46.0	15.4	
399.437	37.6	QP	17.9	-19.3	36.2	197	100	Hori.	46.0	9.8	
432.047	37.7	QP	18.1	-19.5	36.3	57	100	Hori.	46.0	9.7	
432.052	39.9	QP	18.1	-19.5	38.5	97	100	Vert.	46.0	7.5	
932.229	34.6	QP	22.5	-16.7	40.4	61	197	Hori.	46.0	5.6	
932.255	34.3	QP	22.5	-16.7	40.1	88	100	Vert.	46.0	5.9	

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is round off to one or two decimal places, so some differences might be observed.

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Radiated Spurious Emission (below 1GHz)
ANT: MFP 11g Tx, Ch:Low

DATA OF RADIATED EMISSION TEST

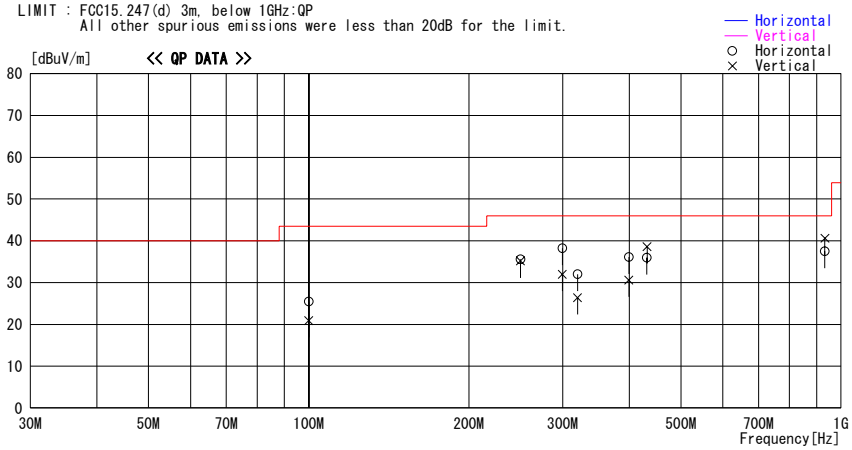
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/17

Company : Canon Inc.
Kind of EUT : Wireless Module for Printer
Model No. : FM33490
Serial No. : 10

Report No. : 28AE0101-HO
Power : AC 120V / 60Hz (DC 3.3V)
Temp./Humi. : 24deg.C / 56%
Operator : Takahiro Hatakeda

Mode / Remarks : IEEE802.11g, Tx, 24Mbps(Worst), 2412MHz / Antenna Type:MFP, Hor:X-axis, Ver:Y-axis(MAX)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
99.999	32.1	QP	10.1	-21.3	20.9	124	100	Vert.	43.5	22.6	
100.000	36.7	QP	10.1	-21.3	25.5	214	300	Hori.	43.5	18.0	
249.999	38.0	QP	16.7	-19.5	35.2	73	100	Vert.	46.0	10.8	
250.000	38.4	QP	16.7	-19.5	35.6	268	133	Hori.	46.0	10.4	
299.538	30.9	QP	20.1	-19.0	32.0	251	100	Vert.	46.0	14.0	
299.538	37.1	QP	20.1	-19.0	38.2	289	117	Hori.	46.0	7.8	
319.999	35.8	QP	15.3	-19.1	32.0	71	100	Hori.	46.0	14.0	
320.000	30.2	QP	15.3	-19.1	26.4	183	204	Vert.	46.0	19.6	
399.425	37.5	QP	17.9	-19.3	36.1	200	100	Hori.	46.0	9.9	
399.432	32.0	QP	17.9	-19.3	30.6	111	100	Vert.	46.0	15.4	
432.047	37.4	QP	18.1	-19.5	36.0	62	100	Hori.	46.0	10.0	
432.051	40.0	QP	18.1	-19.5	38.6	106	100	Vert.	46.0	7.4	
932.252	34.8	QP	22.5	-16.7	40.6	81	100	Vert.	46.0	5.4	
932.254	31.7	QP	22.5	-16.7	37.5	55	229	Hori.	46.0	8.5	

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is round off to one or two decimal places, so some differences might be observed.

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Radiated Spurious Emission (below 1GHz)
ANT: MFP 11g Tx, Ch:Mid

DATA OF RADIATED EMISSION TEST

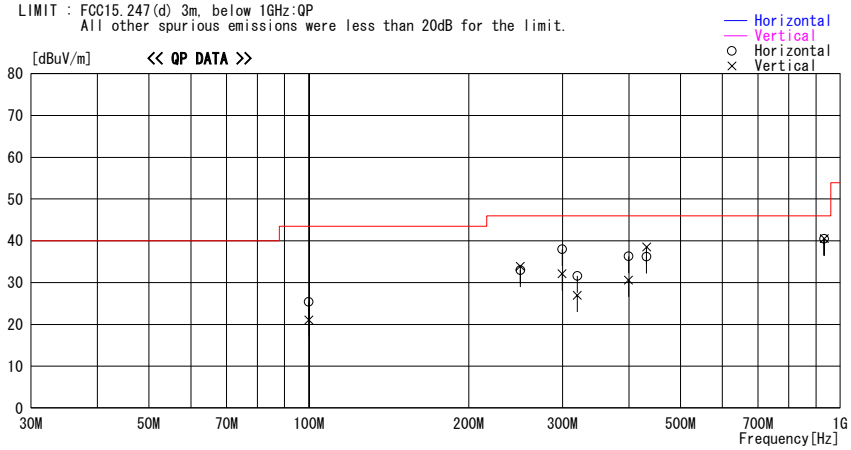
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/17

Company : Canon Inc.
Kind of EUT : Wireless Module for Printer
Model No. : FM33490
Serial No. : 10

Report No. : 28AE0101-HO
Power : AC 120V / 60Hz (DC 3.3V)
Temp./Humi. : 24deg.C / 56%
Operator : Takahiro Hatakeda

Mode / Remarks : IEEE802.11g, Tx, 24Mbps(Worst), 2437MHz / Antenna Type:MFP, Hor:X-axis, Ver:Y-axis(MAX)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
99.997	36.6	QP	10.1	-21.3	25.4	227	287	Hori.	43.5	18.1	
100.000	32.3	QP	10.1	-21.3	21.1	110	100	Vert.	43.5	22.4	
249.999	35.8	QP	16.7	-19.5	33.0	282	126	Hori.	46.0	13.0	
250.000	36.7	QP	16.7	-19.5	33.9	68	100	Vert.	46.0	12.1	
299.544	36.9	QP	20.1	-19.0	38.0	295	115	Hori.	46.0	8.0	
299.550	31.0	QP	20.1	-19.0	32.1	258	100	Vert.	46.0	13.9	
319.998	35.4	QP	15.3	-19.1	31.6	65	100	Hori.	46.0	14.4	
320.001	30.8	QP	15.3	-19.1	27.0	182	156	Vert.	46.0	19.0	
399.425	37.7	QP	17.9	-19.3	36.3	196	100	Hori.	46.0	9.7	
399.435	32.0	QP	17.9	-19.3	30.6	112	100	Vert.	46.0	15.4	
432.048	37.6	QP	18.1	-19.5	36.2	49	100	Hori.	46.0	9.8	
432.048	39.9	QP	18.1	-19.5	38.5	93	100	Vert.	46.0	7.5	
932.247	34.7	QP	22.5	-16.7	40.5	53	188	Hori.	46.0	5.5	
932.248	34.7	QP	22.5	-16.7	40.5	85	100	Vert.	46.0	5.5	

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is round off to one or two decimal places, so some differences might be observed.

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Radiated Spurious Emission (below 1GHz)
ANT: MFP 11g Tx, Ch:High

DATA OF RADIATED EMISSION TEST

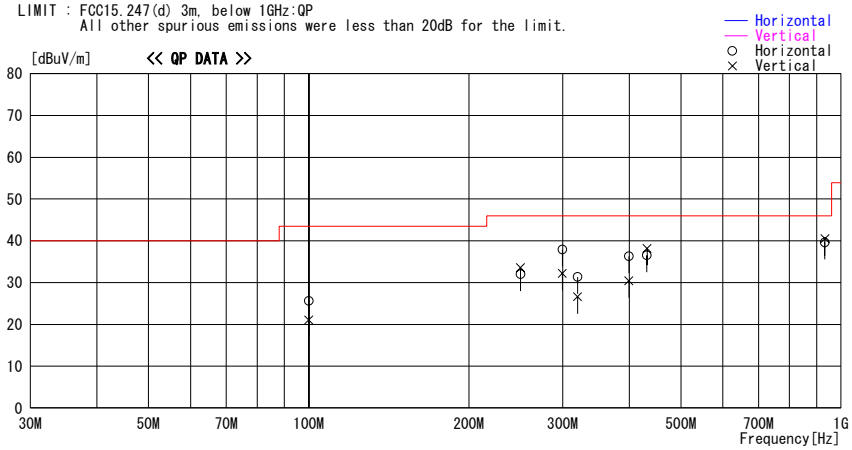
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/17

Company : Canon Inc.
Kind of EUT : Wireless Module for Printer
Model No. : FM33490
Serial No. : 10

Report No. : 28AE0101-HO
Power : AC 120V / 60Hz (DC 3.3V)
Temp./Humi. : 24deg.C / 56%
Operator : Takahiro Hatakeda

Mode / Remarks : IEEE802.11g, Tx, 24Mbps(Worst), 2462MHz / Antenna Type:MFP, Hor:X-axis, Ver:Y-axis(MAX)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
100.000	36.8	QP	10.1	-21.3	25.6	216	296	Hori.	43.5	17.9	
100.000	32.3	QP	10.1	-21.3	21.1	109	100	Vert.	43.5	22.4	
250.000	34.8	QP	16.7	-19.5	32.0	281	130	Hori.	46.0	14.0	
250.000	36.4	QP	16.7	-19.5	33.6	71	100	Vert.	46.0	12.4	
299.544	36.8	QP	20.1	-19.0	37.9	298	115	Hori.	46.0	8.1	
299.544	31.1	QP	20.1	-19.0	32.2	255	100	Vert.	46.0	13.8	
320.000	35.2	QP	15.3	-19.1	31.4	60	100	Hori.	46.0	14.6	
320.000	30.4	QP	15.3	-19.1	26.6	190	155	Vert.	46.0	19.4	
399.443	37.7	QP	17.9	-19.3	36.3	199	100	Hori.	46.0	9.7	
399.443	31.8	QP	17.9	-19.3	30.4	95	100	Vert.	46.0	15.6	
432.049	37.9	QP	18.1	-19.5	36.5	57	100	Hori.	46.0	9.5	
432.050	39.6	QP	18.1	-19.5	38.2	88	100	Vert.	46.0	7.8	
932.241	33.8	QP	22.5	-16.7	39.6	58	210	Hori.	46.0	6.4	
932.242	34.7	QP	22.5	-16.7	40.5	79	100	Vert.	46.0	5.5	

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is round off to one or two decimal places, so some differences might be observed.

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Radiated Spurious Emission (below 1GHz)
ANT: MFP 11b Rx, Ch:Mid

-

DATA OF RADIATED EMISSION TEST

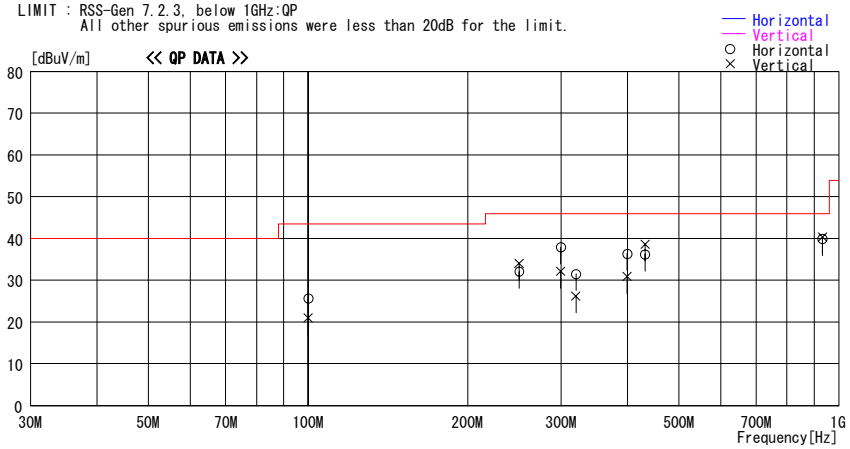
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/17

Company : Canon Inc.
Kind of EUT : Wireless Module for Printer
Model No. : FM33490
Serial No. : 10

Report No. : 28AE0101-HO
Power : AC 120V / 60Hz (DC 3.3V)
Temp./Humi. : 24deg.C / 56%
Operator : Takahiro Hatakeda

Mode / Remarks : IEEE802.11b, Rx, 2Mbps(Worst), 2437MHz / Antenna Type:MFP, Hor:X-axis, Ver:Y-axis(MAX)

LIMIT : RSS-Gen 7.2.3, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
100.000	36.8	QP	10.1	-21.3	25.6	213	299	Hori.	43.5	17.9	
100.000	32.2	QP	10.1	-21.3	21.0	122	100	Vert.	43.5	22.5	
250.000	34.9	QP	16.7	-19.5	32.1	294	131	Hori.	46.0	13.9	
250.000	36.8	QP	16.7	-19.5	34.0	79	100	Vert.	46.0	12.0	
299.539	36.8	QP	20.1	-19.0	37.9	296	111	Hori.	46.0	8.1	
299.539	31.0	QP	20.1	-19.0	32.1	259	100	Vert.	46.0	13.9	
319.998	30.0	QP	15.3	-19.1	26.2	192	175	Vert.	46.0	19.8	
320.000	35.3	QP	15.3	-19.1	31.5	64	100	Hori.	46.0	14.5	
399.436	32.2	QP	17.9	-19.3	30.8	106	100	Vert.	46.0	15.2	
399.443	37.8	QP	17.9	-19.3	36.4	195	100	Hori.	46.0	9.6	
432.048	37.6	QP	18.1	-19.5	36.2	59	100	Hori.	46.0	9.8	
432.049	40.0	QP	18.1	-19.5	38.6	104	100	Vert.	46.0	7.4	
932.254	34.6	QP	22.5	-16.7	40.4	76	100	Vert.	46.0	5.6	
932.254	34.1	QP	22.5	-16.7	39.9	57	100	Hori.	46.0	6.1	

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is round off to one or two decimal places, so some differences might be observed.

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Radiated Spurious Emission (below 1GHz)
ANT: MFP 11g Rx, Ch:Mid

-

DATA OF RADIATED EMISSION TEST

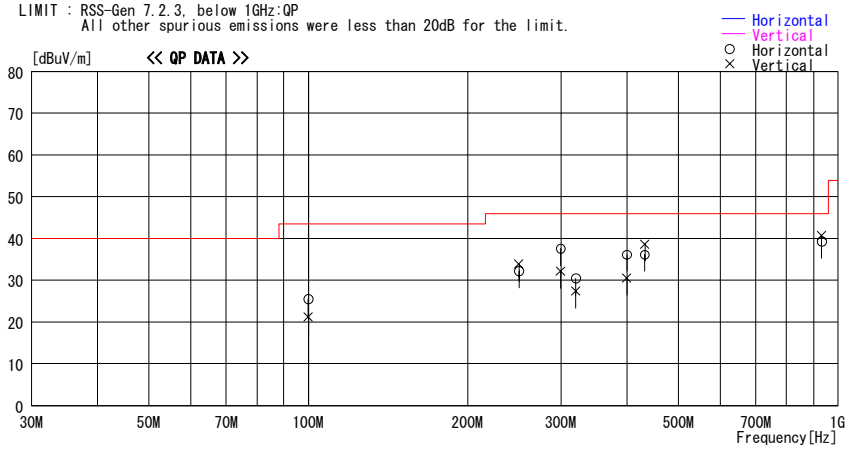
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/17

Company : Canon Inc.
Kind of EUT : Wireless Module for Printer
Model No. : FM33490
Serial No. : 10

Report No. : 28AE0101-HO
Power : AC 120V / 60Hz (DC 3.3V)
Temp./Humi. : 24deg.C / 56%
Operator : Takahiro Hatakeda

Mode / Remarks : IEEE802.11g, Rx, 24Mbps(Worst), 2437MHz / Antenna Type:MFP, Hor:X-axis, Ver:Y-axis(MAX)

LIMIT : RSS-Gen 7.2.3, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
99.999	36.7	QP	10.1	-21.3	25.5	218	289	Hori.	43.5	18.0	
100.000	32.4	QP	10.1	-21.3	21.2	119	100	Vert.	43.5	22.3	
250.000	35.0	QP	16.7	-19.5	32.2	288	120	Hori.	46.0	13.8	
250.000	36.6	QP	16.7	-19.5	33.8	61	100	Vert.	46.0	12.2	
299.541	36.5	QP	20.1	-19.0	37.6	289	115	Hori.	46.0	8.4	
299.543	31.0	QP	20.1	-19.0	32.1	249	100	Vert.	46.0	13.9	
320.000	34.3	QP	15.3	-19.1	30.5	60	100	Hori.	46.0	15.5	
320.000	31.2	QP	15.3	-19.1	27.4	186	201	Vert.	46.0	18.6	
399.427	37.5	QP	17.9	-19.3	36.1	210	100	Hori.	46.0	9.9	
399.429	31.9	QP	17.9	-19.3	30.5	101	100	Vert.	46.0	15.5	
432.049	37.5	QP	18.1	-19.5	36.1	57	100	Hori.	46.0	9.9	
432.050	40.0	QP	18.1	-19.5	38.6	109	100	Vert.	46.0	7.4	
932.240	34.9	QP	22.5	-16.7	40.7	63	100	Vert.	46.0	5.3	
932.241	33.5	QP	22.5	-16.7	39.3	60	219	Hori.	46.0	6.7	

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is round off to one or two decimal places, so some differences might be observed.

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Radiated Spurious Emission (above 1GHz)
ANT: SFP 11b Tx, Ch:Low

UL Japan, Inc.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Canon Inc.	REPORT NO	: 28AE0101-HO
Equipment	: Wireless Module for Printer	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: FM33490	TEST DISTANCE	: 3m / 1m
Sample No.	: 10	DATE	: 08/15/2007
Power	: AC 120 V / 60 Hz (DC3.3V)	TEMPERATURE	: 24deg.C
Mode	: IEEE802.11b Tx 2Mbps , 2412MHz	HUMIDITY	: 57%
Remarks	: AntennaType:SFP , Hor:90deg , Ver:0deg	ENGINEER	: Takahiro Hatakeda

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1061.0	69.4	62.9	24.3	33.9	1.8	0.0	61.6	55.1	73.9	12.3	18.8
2	1198.6	59.1	58.4	24.8	33.6	2.1	0.0	52.4	51.7	73.9	21.5	22.2
3	1328.5	60.3	58.4	25.3	33.4	2.2	0.0	54.4	52.5	73.9	19.5	21.4
4	1458.6	60.3	54.4	25.7	33.2	2.3	0.0	55.1	49.2	73.9	18.8	24.7
5	2390.0	54.5	54.6	27.1	32.3	3.2	0.0	52.5	52.6	73.9	21.4	21.3
6	2400.0	57.7	57.0	27.1	32.3	3.3	0.0	55.8	55.1	73.9	18.1	18.8
7	4824.0	42.5	41.8	31.3	31.6	4.5	0.4	47.1	46.4	73.9	26.8	27.5
8	7236.0	43.3	42.9	35.8	31.4	5.3	0.6	53.6	53.2	73.9	20.3	20.7
9	9648.0	43.3	44.5	38.6	31.9	6.2	0.8	57.0	58.2	73.9	16.9	15.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
10	24120.0	48.2	48.2	40.7	30.7	10.4	0.0	59.1	59.1	73.9	14.8	14.8

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1061.0	45.8	40.8	24.3	33.9	1.8	0.0	38.0	33.0	53.9	15.9	20.9
2	1198.6	38.7	37.8	24.8	33.6	2.1	0.0	32.0	31.1	53.9	21.9	22.8
3	1328.5	39.7	38.1	25.3	33.4	2.2	0.0	33.8	32.2	53.9	20.1	21.7
4	1458.6	38.8	35.6	25.7	33.2	2.3	0.0	33.6	30.4	53.9	20.3	23.5
5	2390.0	40.9	40.7	27.1	32.3	3.2	0.0	38.9	38.7	53.9	15.0	15.2
6	2400.0	44.7	44.5	27.1	32.3	3.3	0.0	42.8	42.6	53.9	11.1	11.3
7	4824.0	29.5	28.9	31.3	31.6	4.5	0.4	34.1	33.5	53.9	19.8	20.4
8	7236.0	29.6	29.6	35.8	31.4	5.3	0.6	39.9	39.9	53.9	14.0	14.0
9	9648.0	30.2	30.2	38.6	31.9	6.2	0.8	43.9	43.9	53.9	10.0	10.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
10	24120.0	35.0	35.0	40.7	30.7	10.4	0.0	45.9	45.9	53.9	8.0	8.0

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the third harmonic, the noise from the EUT was not seen.The data above is its base noise.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz)
ANT: SFP 11b Tx, Ch:Mid

UL Japan, Inc.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Canon Inc.	REPORT NO	: 28AE0101-HO
Equipment	: Wireless Module for Printer	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: FM33490	TEST DISTANCE	: 3m / 1m
Sample No.	: 10	DATE	: 08/15/2007
Power	: AC 120 V / 60 Hz (DC3.3V)	TEMPERATURE	: 24deg.C
Mode	: IEEE802.11b Tx 2Mbps , 2437MHz	HUMIDITY	: 57%
Remarks	: AntennaType:SFP , Hor:90deg , Ver:0deg	ENGINEER	: Takahiro Hatakeda

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1061.1	69.0	62.6	24.3	33.9	1.8	0.0	61.2	54.8	73.9	12.7	19.1
2	1198.7	58.9	58.2	24.8	33.6	2.1	0.0	52.2	51.5	73.9	21.7	22.4
3	1328.6	60.0	58.5	25.3	33.4	2.2	0.0	54.1	52.6	73.9	19.8	21.3
4	1458.7	60.1	54.5	25.7	33.2	2.3	0.0	54.9	49.3	73.9	19.0	24.6
5	4874.0	41.8	42.1	31.4	31.6	4.5	0.4	46.5	46.8	73.9	27.4	27.1
6	7311.0	42.3	42.6	35.9	31.4	5.3	0.6	52.7	53.0	73.9	21.2	20.9
7	9748.0	42.2	42.8	38.7	32.0	6.2	0.7	55.8	56.4	73.9	18.1	17.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	24370.0	47.7	47.7	40.7	30.6	10.4	0.0	58.7	58.7	73.9	15.2	15.2

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1061.1	45.5	40.3	24.3	33.9	1.8	0.0	37.7	32.5	53.9	16.2	21.4
2	1198.7	38.5	37.7	24.8	33.6	2.1	0.0	31.8	31.0	53.9	22.1	22.9
3	1328.6	39.7	37.9	25.3	33.4	2.2	0.0	33.8	32.0	53.9	20.1	21.9
4	1458.7	38.3	35.6	25.7	33.2	2.3	0.0	33.1	30.4	53.9	20.8	23.5
5	4874.0	28.9	28.9	31.4	31.6	4.5	0.4	33.6	33.6	53.9	20.3	20.3
6	7311.0	29.5	29.5	35.9	31.4	5.3	0.6	39.9	39.9	53.9	14.0	14.0
7	9748.0	29.9	29.9	38.7	32.0	6.2	0.7	43.5	43.5	53.9	10.4	10.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	24370.0	34.4	34.4	40.7	30.6	10.4	0.0	45.4	45.4	53.9	8.5	8.5

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the third harmonic, the noise from the EUT was not seen.The data above is its base noise.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz)
ANT: SFP 11b Tx, Ch:High

UL Japan, Inc.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Canon Inc.	REPORT NO	: 28AE0101-HO
Equipment	: Wireless Module for Printer	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: FM33490	TEST DISTANCE	: 3m / 1m
Sample No.	: 10	DATE	: 08/15/2007
Power	: AC 120 V / 60 Hz (DC3.3V)	TEMPERATURE	: 24deg.C
Mode	: IEEE802.11b Tx 2Mbps , 2462MHz	HUMIDITY	: 57%
Remarks	: AntennaType:SFP , Hor:90deg , Ver:0deg	ENGINEER	: Takahiro Hatakeda

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1061.1	68.7	62.3	24.3	33.9	1.8	0.0	60.9	54.5	73.9	13.0	19.4
2	1198.6	58.7	58.2	24.8	33.6	2.1	0.0	52.0	51.5	73.9	21.9	22.4
3	1328.7	59.8	58.5	25.3	33.4	2.2	0.0	53.9	52.6	73.9	20.0	21.3
4	1458.6	60.0	54.4	25.7	33.2	2.3	0.0	54.8	49.2	73.9	19.1	24.7
5	2483.5	56.7	55.3	27.2	32.3	3.1	0.0	54.7	53.3	73.9	19.2	20.6
6	4924.0	42.6	41.9	31.5	31.6	4.6	0.3	47.4	46.7	73.9	26.5	27.2
7	7386.0	42.7	42.7	36.1	31.4	5.4	0.6	53.4	53.4	73.9	20.5	20.5
8	9848.0	43.0	42.6	38.8	32.0	6.2	0.7	56.7	56.3	73.9	17.2	17.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
9	24620.0	47.2	47.2	40.8	30.6	10.6	0.0	58.5	58.5	73.9	15.4	15.4

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1061.1	45.1	40.3	24.3	33.9	1.8	0.0	37.3	32.5	53.9	16.6	21.4
2	1198.6	38.5	37.6	24.8	33.6	2.1	0.0	31.8	30.9	53.9	22.1	23.0
3	1328.7	39.5	38.2	25.3	33.4	2.2	0.0	33.6	32.3	53.9	20.3	21.6
4	1458.6	38.6	35.5	25.7	33.2	2.3	0.0	33.4	30.3	53.9	20.5	23.6
5	2483.5	43.8	42.2	27.2	32.3	3.1	0.0	41.8	40.2	53.9	12.1	13.7
6	4924.0	29.3	29.0	31.5	31.6	4.6	0.3	34.1	33.8	53.9	19.8	20.1
7	7386.0	29.5	29.6	36.1	31.4	5.4	0.6	40.2	40.3	53.9	13.7	13.6
8	9848.0	29.7	29.7	38.8	32.0	6.2	0.7	43.4	43.4	53.9	10.5	10.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
9	24620.0	33.7	33.8	40.8	30.6	10.6	0.0	45.0	45.1	53.9	8.9	8.8

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the third harmonic, the noise from the EUT was not seen.The data above is its base noise.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz)
ANT: SFP 11g Tx, Ch:Low

UL Japan, Inc.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Canon Inc.	REPORT NO	: 28AE0101-HO
Equipment	: Wireless Module for Printer	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: FM33490	TEST DISTANCE	: 3m / 1m
Sample No.	: 10	DATE	: 08/15/2007
Power	: AC 120 V / 60 Hz (DC3.3V)	TEMPERATURE	: 24deg.C
Mode	: IEEE802.11g Tx 24Mbps , 2412MHz	HUMIDITY	: 57%
Remarks	: AntennaType:SFP , Hor:90deg , Ver:0deg	ENGINEER	: Takahiro Hatakeda

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1061.1	68.9	61.5	24.3	33.9	1.8	0.0	61.1	53.7	73.9	12.8	20.2
2	1198.7	58.8	58.7	24.8	33.6	2.1	0.0	52.1	52.0	73.9	21.8	21.9
3	1328.5	60.0	58.8	25.3	33.4	2.2	0.0	54.1	52.9	73.9	19.8	21.0
4	1458.6	60.1	53.9	25.7	33.2	2.3	0.0	54.9	48.7	73.9	19.0	25.2
5	2390.0	60.4	59.8	27.1	32.3	3.2	0.0	58.4	57.8	73.9	15.5	16.1
6	4824.0	41.6	41.7	31.3	31.6	4.5	0.4	46.2	46.3	73.9	27.7	27.6
7	7236.0	42.6	42.1	35.8	31.4	5.3	0.6	52.9	52.4	73.9	21.0	21.5
8	9648.0	43.6	42.7	38.6	31.9	6.2	0.8	57.3	56.4	73.9	16.6	17.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
9	24120.0	48.0	48.1	40.7	30.7	10.4	0.0	58.9	59.0	73.9	15.0	14.9

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1061.1	45.5	40.3	24.3	33.9	1.8	0.0	37.7	32.5	53.9	16.2	21.4
2	1198.7	38.5	37.9	24.8	33.6	2.1	0.0	31.8	31.2	53.9	22.1	22.7
3	1328.5	39.5	38.3	25.3	33.4	2.2	0.0	33.6	32.4	53.9	20.3	21.5
4	1458.6	38.7	35.5	25.7	33.2	2.3	0.0	33.5	30.3	53.9	20.4	23.6
5	2390.0	44.3	43.4	27.1	32.3	3.2	0.0	42.3	41.4	53.9	11.6	12.5
6	4824.0	28.9	28.8	31.3	31.6	4.5	0.4	33.5	33.4	53.9	20.4	20.5
7	7236.0	29.5	29.5	35.8	31.4	5.3	0.6	39.8	39.8	53.9	14.1	14.1
8	9648.0	30.1	30.1	38.6	31.9	6.2	0.8	43.8	43.8	53.9	10.1	10.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
9	24120.0	34.9	34.9	40.7	30.7	10.4	0.0	45.8	45.8	53.9	8.1	8.1

20dBc(Fundamental 2412MHz) (RBW: 100kHz, VBW: 300kHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	20dBc	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2412.0	99.3	98.8	27.1	32.3	3.3	0.0	97.4	96.9	-	-	-
2	2400.0	65.4	64.3	27.1	32.3	3.3	0.0	63.5	62.4	Funda-20dB	13.9	14.5

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the third harmonic, the noise from the EUT was not seen.The data above is its base noise.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz)
ANT: SFP 11g Tx, Ch:Mid

UL Japan, Inc.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Canon Inc.	REPORT NO	: 28AE0101-HO
Equipment	: Wireless Module for Printer	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: FM33490	TEST DISTANCE	: 3m / 1m
Sample No.	: 10	DATE	: 08/15/2007
Power	: AC 120 V / 60 Hz (DC3.3V)	TEMPERATURE	: 24deg.C
Mode	: IEEE802.11g Tx 24Mbps , 2437MHz	HUMIDITY	: 57%
Remarks	: AntennaType:SFP , Hor:90deg , Ver:0deg	ENGINEER	: Takahiro Hatakeda

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1061.1	69.0	62.1	24.3	33.9	1.8	0.0	61.2	54.3	73.9	12.7	19.6
2	1198.9	58.7	58.1	24.8	33.6	2.1	0.0	52.0	51.4	73.9	21.9	22.5
3	1328.6	59.5	58.3	25.3	33.4	2.2	0.0	53.6	52.4	73.9	20.3	21.5
4	1458.4	59.7	54.0	25.7	33.2	2.3	0.0	54.5	48.8	73.9	19.4	25.1
5	4874.0	41.2	41.4	31.4	31.6	4.5	0.4	45.9	46.1	73.9	28.0	27.8
6	7311.0	42.0	42.6	35.9	31.4	5.3	0.6	52.4	53.0	73.9	21.5	20.9
7	9748.0	42.3	42.8	38.7	32.0	6.2	0.7	55.9	56.4	73.9	18.0	17.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	24370.0	47.6	47.7	40.7	30.6	10.4	0.0	58.6	58.7	73.9	15.3	15.2

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1061.1	45.1	40.3	24.3	33.9	1.8	0.0	37.3	32.5	53.9	16.6	21.4
2	1198.9	38.2	37.4	24.8	33.6	2.1	0.0	31.5	30.7	53.9	22.4	23.2
3	1328.6	39.2	37.8	25.3	33.4	2.2	0.0	33.3	31.9	53.9	20.6	22.0
4	1458.4	38.4	35.3	25.7	33.2	2.3	0.0	33.2	30.1	53.9	20.7	23.8
5	4874.0	28.8	28.8	31.4	31.6	4.5	0.4	33.5	33.5	53.9	20.4	20.4
6	7311.0	29.5	29.5	35.9	31.4	5.3	0.6	39.9	39.9	53.9	14.0	14.0
7	9748.0	29.7	29.7	38.7	32.0	6.2	0.7	43.3	43.3	53.9	10.6	10.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	24370.0	34.4	34.5	40.7	30.6	10.4	0.0	45.4	45.5	53.9	8.5	8.4

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the third harmonic, the noise from the EUT was not seen.The data above is its base noise.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz)
ANT: SFP 11g Tx, Ch:High

UL Japan, Inc.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Canon Inc.	REPORT NO	: 28AE0101-HO
Equipment	: Wireless Module for Printer	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: FM33490	TEST DISTANCE	: 3m / 1m
Sample No.	: 10	DATE	: 08/15/2007
Power	: AC 120 V / 60 Hz (DC3.3V)	TEMPERATURE	: 24deg.C
Mode	: IEEE802.11g Tx 24Mbps , 2462MHz	HUMIDITY	: 57%
Remarks	: AntennaType:SFP , Hor:90deg , Ver:0deg	ENGINEER	: Takahiro Hatakeda

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1061.2	68.7	61.9	24.3	33.9	1.8	0.0	60.9	54.1	73.9	13.0	19.8
2	1198.7	58.9	58.7	24.8	33.6	2.1	0.0	52.2	52.0	73.9	21.7	21.9
3	1328.6	59.8	58.7	25.3	33.4	2.2	0.0	53.9	52.8	73.9	20.0	21.1
4	1458.7	59.9	54.4	25.7	33.2	2.3	0.0	54.7	49.2	73.9	19.2	24.7
5	2483.5	62.2	58.6	27.2	32.3	3.1	0.0	60.2	56.6	73.9	13.7	17.3
6	4924.0	41.5	42.3	31.5	31.6	4.6	0.3	46.3	47.1	73.9	27.6	26.8
7	7386.0	41.8	42.5	36.1	31.4	5.4	0.6	52.5	53.2	73.9	21.4	20.7
8	9848.0	43.0	43.1	38.8	32.0	6.2	0.7	56.7	56.8	73.9	17.2	17.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
9	24620.0	47.2	47.2	40.8	30.6	10.6	0.0	58.5	58.5	73.9	15.4	15.4

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1061.2	45.1	40.7	24.3	33.9	1.8	0.0	37.3	32.9	53.9	16.6	21.0
2	1198.7	38.5	37.9	24.8	33.6	2.1	0.0	31.8	31.2	53.9	22.1	22.7
3	1328.6	39.5	38.3	25.3	33.4	2.2	0.0	33.6	32.4	53.9	20.3	21.5
4	1458.7	38.5	35.5	25.7	33.2	2.3	0.0	33.3	30.3	53.9	20.6	23.6
5	2483.5	46.7	44.5	27.2	32.3	3.1	0.0	44.7	42.5	53.9	9.2	11.4
6	4924.0	28.9	28.9	31.5	31.6	4.6	0.3	33.7	33.7	53.9	20.2	20.2
7	7386.0	29.5	29.5	36.1	31.4	5.4	0.6	40.2	40.2	53.9	13.7	13.7
8	9848.0	29.6	29.6	38.8	32.0	6.2	0.7	43.3	43.3	53.9	10.6	10.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
9	24620.0	33.9	33.9	40.8	30.6	10.6	0.0	45.2	45.2	53.9	8.7	8.7

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the third harmonic, the noise from the EUT was not seen.The data above is its base noise.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz)
ANT: SFP 11b Rx, Ch:Mid

UL Japan, Inc.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Canon Inc.	REPORT NO	: 28AE0101-HO
Equipment	: Wireless Module for Printer	REGULATION	: RSS-Gen 7.2.3
Model	: FM33490	TEST DISTANCE	: 3m
Sample No.	: 10	DATE	: 08/15/2007
Power	: AC 120 V / 60 Hz (DC3.3V)	TEMPERATURE	: 24deg.C
Mode	: IEEE802.11b Rx 2Mbps , 2437MHz	HUMIDITY	: 57%
Remarks	: AntennaType:SFP , Hor:90deg , Ver:0deg	ENGINEER	: Takahiro Hatakeda

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1061.0	68.4	62.0	24.3	33.9	1.8	0.0	60.6	54.2	73.9	13.3	19.7
2	1198.7	59.2	58.3	24.8	33.6	2.1	0.0	52.5	51.6	73.9	21.4	22.3
3	1328.6	60.2	58.9	25.3	33.4	2.2	0.0	54.3	53.0	73.9	19.6	20.9
4	1458.7	60.0	54.1	25.7	33.2	2.3	0.0	54.8	48.9	73.9	19.1	25.0

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1061.0	45.0	40.2	24.3	33.9	1.8	0.0	37.2	32.4	53.9	16.7	21.5
2	1198.7	38.8	37.7	24.8	33.6	2.1	0.0	32.1	31.0	53.9	21.8	22.9
3	1328.6	39.8	38.2	25.3	33.4	2.2	0.0	33.9	32.3	53.9	20.0	21.6
4	1458.7	38.8	35.7	25.7	33.2	2.3	0.0	33.6	30.5	53.9	20.3	23.4

*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz)
ANT: SFP 11g Rx, Ch:Mid

UL Japan, Inc.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Canon Inc.	REPORT NO	: 28AE0101-HO
Equipment	: Wireless Module for Printer	REGULATION	: RSS-Gen 7.2.3
Model	: FM33490	TEST DISTANCE	: 3m
Sample No.	: 10	DATE	: 08/15/2007
Power	: AC 120 V / 60 Hz (DC3.3V)	TEMPERATURE	: 24deg.C
Mode	: IEEE802.11g Rx 24Mbps , 2437MHz	HUMIDITY	: 57%
Remarks	: AntennaType:SFP , Hor:90deg , Ver:0deg	ENGINEER	: Takahiro Hatakeda

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1061.1	68.9	62.0	24.3	33.9	1.8	0.0	61.1	54.2	73.9	12.8	19.7
2	1198.7	58.7	58.1	24.8	33.6	2.1	0.0	52.0	51.4	73.9	21.9	22.5
3	1328.5	59.9	58.1	25.3	33.4	2.2	0.0	54.0	52.2	73.9	19.9	21.7
4	1458.7	60.1	53.8	25.7	33.2	2.3	0.0	54.9	48.6	73.9	19.0	25.3

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1061.1	45.2	40.1	24.3	33.9	1.8	0.0	37.4	32.3	53.9	16.5	21.6
2	1198.7	38.4	37.5	24.8	33.6	2.1	0.0	31.7	30.8	53.9	22.2	23.1
3	1328.5	39.3	37.9	25.3	33.4	2.2	0.0	33.4	32.0	53.9	20.5	21.9
4	1458.7	38.5	35.0	25.7	33.2	2.3	0.0	33.3	29.8	53.9	20.6	24.1

*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz)
ANT: MFP 11b Tx, Ch:Low

UL Japan, Inc.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Canon Inc.	REPORT NO	: 28AE0101-HO
Equipment	: Wireless Module for Printer	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: FM33490	TEST DISTANCE	: 3m / 1m
Sample No.	: 10	DATE	: 08/14/2007
Power	: AC 120 V / 60 Hz (DC3.3V)	TEMPERATURE	: 24deg.C
Mode	: IEEE802.11b Tx 2Mbps , 2412MHz	HUMIDITY	: 59%
Remarks	: AntennaType:MFP , Hor:X-axis , Ver:Y-axis	ENGINEER	: Takahiro Hatakeda

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1065.2	61.8	54.2	24.3	33.8	1.8	0.0	54.1	46.5	73.9	19.8	27.4
2	1198.8	61.4	55.3	24.8	33.6	2.1	0.0	54.7	48.6	73.9	19.2	25.3
3	1329.2	57.5	57.2	25.3	33.4	2.2	0.0	51.6	51.3	73.9	22.3	22.6
4	2390.0	50.8	50.6	27.1	32.3	3.2	0.0	48.8	48.6	73.9	25.1	25.3
5	2400.0	54.0	52.4	27.1	32.3	3.3	0.0	52.1	50.5	73.9	21.8	23.4
6	4824.0	41.8	42.7	31.3	31.6	4.5	0.4	46.4	47.3	73.9	27.5	26.6
7	7236.0	42.2	42.8	35.8	31.4	5.3	0.6	52.5	53.1	73.9	21.4	20.8
8	9648.0	43.1	43.7	38.6	31.9	6.2	0.8	56.8	57.4	73.9	17.1	16.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
9	24120.0	48.2	47.9	40.7	30.7	10.4	0.0	59.1	58.8	73.9	14.8	15.1

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1065.2	44.2	36.9	24.3	33.8	1.8	0.0	36.5	29.2	53.9	17.4	24.7
2	1198.8	41.1	36.7	24.8	33.6	2.1	0.0	34.4	30.0	53.9	19.5	23.9
3	1329.2	39.2	37.6	25.3	33.4	2.2	0.0	33.3	31.7	53.9	20.6	22.2
4	2390.0	37.6	36.4	27.1	32.3	3.2	0.0	35.6	34.4	53.9	18.3	19.5
5	2400.0	41.3	39.5	27.1	32.3	3.3	0.0	39.4	37.6	53.9	14.5	16.3
6	4824.0	29.6	29.0	31.3	31.6	4.5	0.4	34.2	33.6	53.9	19.7	20.3
7	7236.0	29.5	29.5	35.8	31.4	5.3	0.6	39.8	39.8	53.9	14.1	14.1
8	9648.0	30.0	30.0	38.6	31.9	6.2	0.8	43.7	43.7	53.9	10.2	10.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
9	24120.0	35.0	35.0	40.7	30.7	10.4	0.0	45.9	45.9	53.9	8.0	8.0

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the third harmonic, the noise from the EUT was not seen.The data above is its base noise.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz)
ANT: MFP 11b Tx, Ch:Mid

UL Japan, Inc.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Canon Inc.	REPORT NO	: 28AE0101-HO
Equipment	: Wireless Module for Printer	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: FM33490	TEST DISTANCE	: 3m / 1m
Sample No.	: 10	DATE	: 08/14/2007
Power	: AC 120 V / 60 Hz (DC3.3V)	TEMPERATURE	: 24deg.C
Mode	: IEEE802.11b Tx 2Mbps , 2437MHz	HUMIDITY	: 59%
Remarks	: AntennaType:MFP , Hor:X-axis , Ver:Y-axis	ENGINEER	: Takahiro Hatakeda

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1065.5	61.5	54.0	24.3	33.8	1.8	0.0	53.8	46.3	73.9	20.1	27.6
2	1198.9	60.6	55.0	24.8	33.6	2.1	0.0	53.9	48.3	73.9	20.0	25.6
3	1329.3	56.4	57.9	25.3	33.4	2.2	0.0	50.5	52.0	73.9	23.4	21.9
4	4874.0	43.2	42.6	31.4	31.6	4.5	0.4	47.9	47.3	73.9	26.0	26.6
5	7311.0	42.9	42.8	35.9	31.4	5.3	0.6	53.3	53.2	73.9	20.6	20.7
6	9748.0	43.0	43.3	38.7	32.0	6.2	0.7	56.6	56.9	73.9	17.3	17.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	24370.0	47.7	47.6	40.7	30.6	10.4	0.0	58.7	58.6	73.9	15.2	15.3

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1065.5	41.3	36.5	24.3	33.8	1.8	0.0	33.6	28.8	53.9	20.3	25.1
2	1198.9	39.2	36.3	24.8	33.6	2.1	0.0	32.5	29.6	53.9	21.4	24.3
3	1329.3	37.1	37.9	25.3	33.4	2.2	0.0	31.2	32.0	53.9	22.7	21.9
4	4874.0	29.9	28.9	31.4	31.6	4.5	0.4	34.6	33.6	53.9	19.3	20.3
5	7311.0	29.5	29.5	35.9	31.4	5.3	0.6	39.9	39.9	53.9	14.0	14.0
6	9748.0	29.9	29.9	38.7	32.0	6.2	0.7	43.5	43.5	53.9	10.4	10.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	24370.0	34.4	34.3	40.7	30.6	10.4	0.0	45.4	45.3	53.9	8.5	8.6

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the third harmonic, the noise from the EUT was not seen.The data above is its base noise.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz)
ANT: MFP 11b Tx, Ch:High

UL Japan, Inc.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Canon Inc.	REPORT NO	: 28AE0101-HO	
Equipment	: Wireless Module for Printer	REGULATION	: FCC15.247(d)/RSS-210A8.5	
Model	: FM33490	TEST DISTANCE	: 3m / 1m	
Sample No.	: 10	DATE	: 08/14/2007	: 08/15/2007
Power	: AC 120 V / 60 Hz (DC3.3V)	TEMPERATURE	: 24deg.C	: 24deg.C
Mode	: IEEE802.11b Tx 2Mbps , 2462MHz	HUMIDITY	: 59%	: 57%
Remarks	: AntennaType:MFP , Hor:X-axis , Ver:Y-axis	ENGINEER	: Takahiro Hatakeda	: Takahiro Hatakeda

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1065.5	61.5	54.9	24.3	33.8	1.8	0.0	53.8	47.2	73.9	20.1	26.7
2	1198.8	61.3	55.5	24.8	33.6	2.1	0.0	54.6	48.8	73.9	19.3	25.1
3	1329.2	57.6	57.3	25.3	33.4	2.2	0.0	51.7	51.4	73.9	22.2	22.5
4	2483.5	51.6	50.7	27.2	32.3	3.1	0.0	49.6	48.7	73.9	24.3	25.2
5	4924.0	42.3	41.8	31.5	31.6	4.6	0.3	47.1	46.6	73.9	26.8	27.3
6	7386.0	42.9	42.5	36.1	31.4	5.4	0.6	53.6	53.2	73.9	20.3	20.7
7	9848.0	43.0	43.1	38.8	32.0	6.2	0.7	56.7	56.8	73.9	17.2	17.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	24620.0	47.2	47.2	40.8	30.6	10.6	0.0	58.5	58.5	73.9	15.4	15.4

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1065.5	44.2	37.1	24.3	33.8	1.8	0.0	36.5	29.4	53.9	17.4	24.5
2	1198.8	41.2	37.0	24.8	33.6	2.1	0.0	34.5	30.3	53.9	19.4	23.6
3	1329.2	39.4	37.8	25.3	33.4	2.2	0.0	33.5	31.9	53.9	20.4	22.0
4	2483.5	38.2	37.2	27.2	32.3	3.1	0.0	36.2	35.2	53.9	17.7	18.7
5	4924.0	29.0	29.5	31.5	31.6	4.6	0.3	33.8	34.3	53.9	20.1	19.6
6	7386.0	29.5	30.2	36.1	31.4	5.4	0.6	40.2	40.9	53.9	13.7	13.0
7	9848.0	29.8	30.3	38.8	32.0	6.2	0.7	43.5	44.0	53.9	10.4	9.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	24620.0	33.7	33.8	40.8	30.6	10.6	0.0	45.0	45.1	53.9	8.9	8.8

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the third harmonic, the noise from the EUT was not seen.The data above is its base noise.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz)
ANT: MFP 11g Tx, Ch:Low

UL Japan, Inc.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Canon Inc.	REPORT NO	: 28AE0101-HO		
Equipment	: Wireless Module for Printer	REGULATION	: FCC15.247(d)/RSS-210A8.5		
Model	: FM33490	TEST DISTANCE	: 3m / 1m		
Sample No.	: 10	DATE	: 08/14/2007	: 08/15/2007	
Power	: AC 120 V / 60 Hz (DC3.3V)	TEMPERATURE	: 24deg.C	: 24deg.C	
Mode	: IEEE802.11g Tx 24Mbps , 2412MHz	HUMIDITY	: 59%	: 57%	
Remarks	: AntennaType:MFP , Hor:X-axis , Ver:Y-axis	ENGINEER	: Takahiro Hatakeda	: Takahiro Hatakeda	

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1065.2	61.9	55.4	24.3	33.8	1.8	0.0	54.2	47.7	73.9	19.7	26.2
2	1198.8	61.7	55.6	24.8	33.6	2.1	0.0	55.0	48.9	73.9	18.9	25.0
3	1329.1	58.0	57.1	25.3	33.4	2.2	0.0	52.1	51.2	73.9	21.8	22.7
4	2390.0	57.0	57.0	27.1	32.3	3.2	0.0	55.0	55.0	73.9	18.9	18.9
5	4824.0	42.2	42.9	31.3	31.6	4.5	0.4	46.8	47.5	73.9	27.1	26.4
6	7236.0	41.7	42.2	35.8	31.4	5.3	0.6	52.0	52.5	73.9	21.9	21.4
7	9648.0	42.2	44.2	38.6	31.9	6.2	0.8	55.9	57.9	73.9	18.0	16.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	24120.0	48.3	48.3	40.7	30.7	10.4	0.0	59.2	59.2	73.9	14.7	14.7

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1065.2	44.3	37.1	24.3	33.8	1.8	0.0	36.6	29.4	53.9	17.3	24.5
2	1198.8	41.3	37.0	24.8	33.6	2.1	0.0	34.6	30.3	53.9	19.3	23.6
3	1329.1	39.4	37.4	25.3	33.4	2.2	0.0	33.5	31.5	53.9	20.4	22.4
4	2390.0	41.3	40.3	27.1	32.3	3.2	0.0	39.3	38.3	53.9	14.6	15.6
5	4824.0	29.4	29.0	31.3	31.6	4.5	0.4	34.0	33.6	53.9	19.9	20.3
6	7236.0	29.6	29.6	35.8	31.4	5.3	0.6	39.9	39.9	53.9	14.0	14.0
7	9648.0	30.3	30.4	38.6	31.9	6.2	0.8	44.0	44.1	53.9	9.9	9.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	24120.0	35.0	34.9	40.7	30.7	10.4	0.0	45.9	45.8	53.9	8.0	8.1

20dBc(Fundamental 2412MHz) (RBW: 100kHz, VBW: 300kHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	20dBc	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2412.0	94.2	94.5	27.1	32.3	3.3	0.0	92.3	92.6	-	-	-
2	2400.0	61.3	60.2	27.1	32.3	3.3	0.0	59.4	58.3	Funda-20dB	12.9	14.3

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the third harmonic, the noise from the EUT was not seen.The data above is its base noise.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz)
ANT: MFP 11g Tx, Ch:Mid

UL Japan, Inc.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Canon Inc.	REPORT NO	: 28AE0101-HO	
Equipment	: Wireless Module for Printer	REGULATION	: FCC15.247(d)/RSS-210A8.5	
Model	: FM33490	TEST DISTANCE	: 3m / 1m	
Sample No.	: 10	DATE	: 08/14/2007	: 08/15/2007
Power	: AC 120 V / 60 Hz (DC3.3V)	TEMPERATURE	: 24deg.C	: 24deg.C
Mode	: IEEE802.11g Tx 24Mbps , 2437MHz	HUMIDITY	: 59%	: 57%
Remarks	: AntennaType:MFP , Hor:X-axis , Ver:Y-axis	ENGINEER	: Takahiro Hatakeda	: Takahiro Hatakeda

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1065.2	61.3	55.1	24.3	33.8	1.8	0.0	53.6	47.4	73.9	20.3	26.5
2	1198.8	61.2	55.1	24.8	33.6	2.1	0.0	54.5	48.4	73.9	19.4	25.5
3	1329.2	58.0	57.4	25.3	33.4	2.2	0.0	52.1	51.5	73.9	21.8	22.4
4	4874.0	42.1	42.5	31.4	31.6	4.5	0.4	46.8	47.2	73.9	27.1	26.7
5	7311.0	42.6	43.4	35.9	31.4	5.3	0.6	53.0	53.8	73.9	20.9	20.1
6	9748.0	43.3	43.3	38.7	32.0	6.2	0.7	56.9	56.9	73.9	17.0	17.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	24370.0	48.8	48.7	40.7	30.6	10.4	0.0	59.8	59.7	73.9	14.1	14.2

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1065.2	44.0	37.2	24.3	33.8	1.8	0.0	36.3	29.5	53.9	17.6	24.4
2	1198.8	40.9	36.3	24.8	33.6	2.1	0.0	34.2	29.6	53.9	19.7	24.3
3	1329.2	39.5	37.7	25.3	33.4	2.2	0.0	33.6	31.8	53.9	20.3	22.1
4	4874.0	29.1	28.9	31.4	31.6	4.5	0.4	33.8	33.6	53.9	20.1	20.3
5	7311.0	29.6	29.6	35.9	31.4	5.3	0.6	40.0	40.0	53.9	13.9	13.9
6	9748.0	30.0	30.0	38.7	32.0	6.2	0.7	43.6	43.6	53.9	10.3	10.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	24370.0	34.5	34.5	40.7	30.6	10.4	0.0	45.5	45.5	53.9	8.4	8.4

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the third harmonic, the noise from the EUT was not seen.The data above is its base noise.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz)
ANT: MFP 11g Tx, Ch:High

UL Japan, Inc.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Canon Inc.	REPORT NO	: 28AE0101-HO	
Equipment	: Wireless Module for Printer	REGULATION	: FCC15.247(d)/RSS-210A8.5	
Model	: FM33490	TEST DISTANCE	: 3m / 1m	
Sample No.	: 10	DATE	: 08/14/2007	: 08/15/2007
Power	: AC 120 V / 60 Hz (DC3.3V)	TEMPERATURE	: 24deg.C	: 24deg.C
Mode	: IEEE802.11g Tx 24Mbps , 2462MHz	HUMIDITY	: 59%	: 57%
Remarks	: AntennaType:MFP , Hor:X-axis , Ver:Y-axis	ENGINEER	: Takahiro Hatakeda	: Takahiro Hatakeda

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1065.3	61.5	55.7	24.3	33.8	1.8	0.0	53.8	48.0	73.9	20.1	25.9
2	1198.8	61.2	55.5	24.8	33.6	2.1	0.0	54.5	48.8	73.9	19.4	25.1
3	1329.3	58.0	57.0	25.3	33.4	2.2	0.0	52.1	51.1	73.9	21.8	22.8
4	2483.5	57.5	56.3	27.2	32.3	3.1	0.0	55.5	54.3	73.9	18.4	19.6
5	4924.0	43.5	42.4	31.5	31.6	4.6	0.3	48.3	47.2	73.9	25.6	26.7
6	7386.0	42.5	42.5	36.1	31.4	5.4	0.6	53.2	53.2	73.9	20.7	20.7
7	9848.0	43.2	43.3	38.8	32.0	6.2	0.7	56.9	57.0	73.9	17.0	16.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	24620.0	47.2	47.1	40.8	30.6	10.6	0.0	58.5	58.4	73.9	15.4	15.5

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1065.3	44.1	37.2	24.3	33.8	1.8	0.0	36.4	29.5	53.9	17.5	24.4
2	1198.8	41.0	37.0	24.8	33.6	2.1	0.0	34.3	30.3	53.9	19.6	23.6
3	1329.3	39.4	37.2	25.3	33.4	2.2	0.0	33.5	31.3	53.9	20.4	22.6
4	2483.5	41.9	40.2	27.2	32.3	3.1	0.0	39.9	38.2	53.9	14.0	15.7
5	4924.0	29.0	29.0	31.5	31.6	4.6	0.3	33.8	33.8	53.9	20.1	20.1
6	7386.0	29.5	29.5	36.1	31.4	5.4	0.6	40.2	40.2	53.9	13.7	13.7
7	9848.0	29.8	29.8	38.8	32.0	6.2	0.7	43.5	43.5	53.9	10.4	10.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	24620.0	33.8	33.8	40.8	30.6	10.6	0.0	45.1	45.1	53.9	8.8	8.8

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the third harmonic, the noise from the EUT was not seen.The data above is its base noise.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz)
ANT: MFP 11b Rx, Ch:Mid

UL Japan, Inc.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Canon Inc.	REPORT NO	: 28AE0101-HO
Equipment	: Wireless Module for Printer	REGULATION	: RSS-Gen 7.2.3
Model	: FM33490	TEST DISTANCE	: 3m
Sample No.	: 10	DATE	: 08/14/2007
Power	: AC 120 V / 60 Hz (DC3.3V)	TEMPERATURE	: 24deg.C
Mode	: IEEE802.11b Rx 2Mbps , 2437MHz	HUMIDITY	: 59%
Remarks	: AntennaType:MFP , Hor:X-axis , Ver:Y-axis	ENGINEER	: Takahiro Hatakeda

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1065.8	61.5	54.0	24.3	33.8	1.8	0.0	53.8	46.3	73.9	20.1	27.6
2	1198.9	59.6	55.1	24.8	33.6	2.1	0.0	52.9	48.4	73.9	21.0	25.5
3	1329.5	58.7	56.8	25.3	33.4	2.2	0.0	52.8	50.9	73.9	21.1	23.0

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1065.8	44.1	36.7	24.3	33.8	1.8	0.0	36.4	29.0	53.9	17.5	24.9
2	1198.9	40.7	36.5	24.8	33.6	2.1	0.0	34.0	29.8	53.9	19.9	24.1
3	1329.5	40.4	37.5	25.3	33.4	2.2	0.0	34.5	31.6	53.9	19.4	22.3

*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz)
ANT: MFP 11g Rx, Ch:Mid

UL Japan, Inc.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Canon Inc.	REPORT NO	: 28AE0101-HO
Equipment	: Wireless Module for Printer	REGULATION	: RSS-Gen 7.2.3
Model	: FM33490	TEST DISTANCE	: 3m
Sample No.	: 10	DATE	: 08/14/2007
Power	: AC 120 V / 60 Hz (DC3.3V)	TEMPERATURE	: 24deg.C
Mode	: IEEE802.11g Rx 24Mbps , 2437MHz	HUMIDITY	: 59%
Remarks	: AntennaType:MFP , Hor:X-axis , Ver:Y-axis	ENGINEER	: Takahiro Hatakeda

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1065.7	61.9	55.1	24.3	33.8	1.8	0.0	54.2	47.4	73.9	19.7	26.5
2	1198.8	61.5	55.5	24.8	33.6	2.1	0.0	54.8	48.8	73.9	19.1	25.1
3	1329.2	57.7	57.5	25.3	33.4	2.2	0.0	51.8	51.6	73.9	22.1	22.3

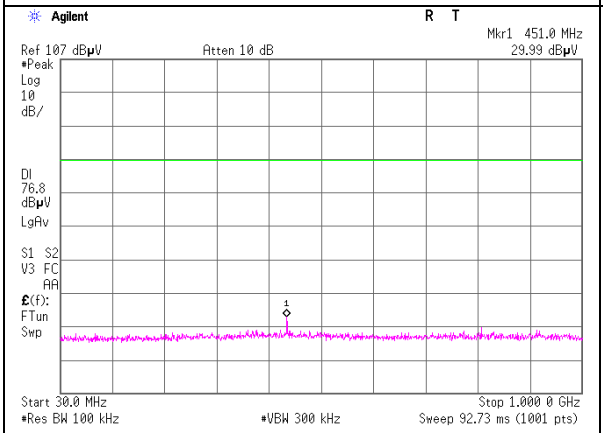
AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1065.7	45.0	37.1	24.3	33.8	1.8	0.0	37.3	29.4	53.9	16.6	24.5
2	1198.8	41.2	36.9	24.8	33.6	2.1	0.0	34.5	30.2	53.9	19.4	23.7
3	1329.2	39.4	37.7	25.3	33.4	2.2	0.0	33.5	31.8	53.9	20.4	22.1

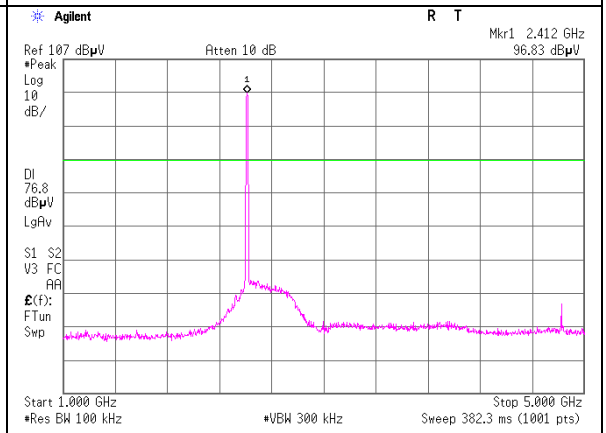
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The test result is round off to one or two decimal places, so some differences might be observed.

Conducted Spurious Emission
11b Tx, Ch: Low 2Mbps

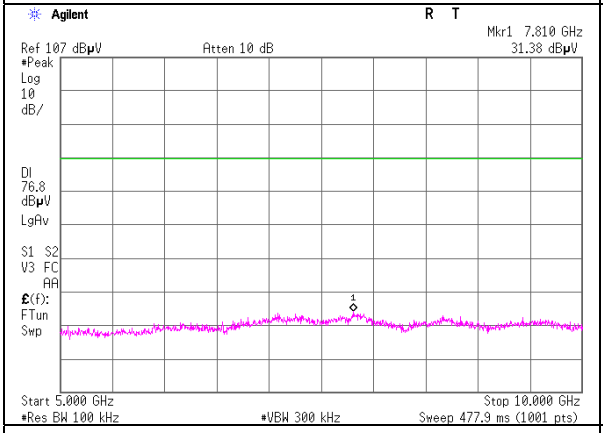
30MHz-1GHz



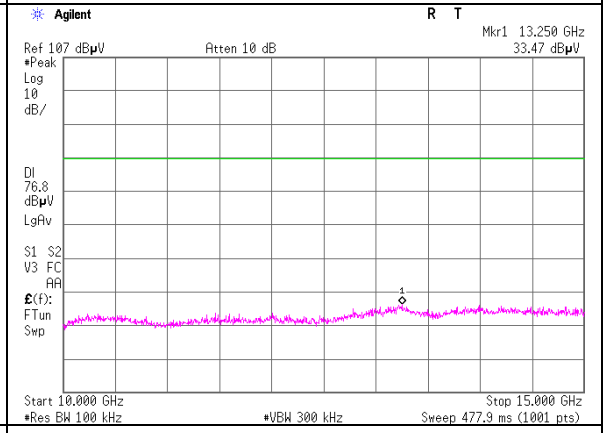
1GHz-5GHz



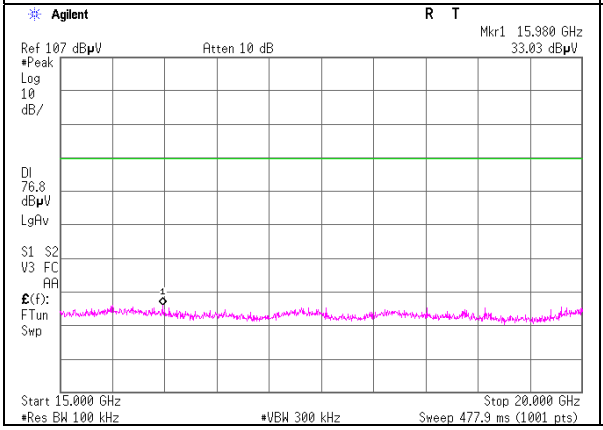
5GHz-10GHz



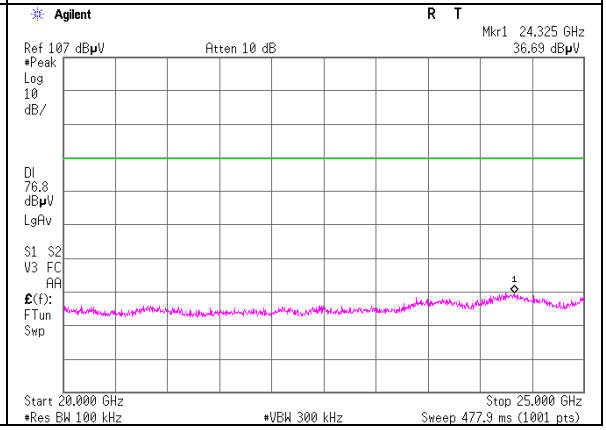
10GHz-15GHz



15GHz-20GHz



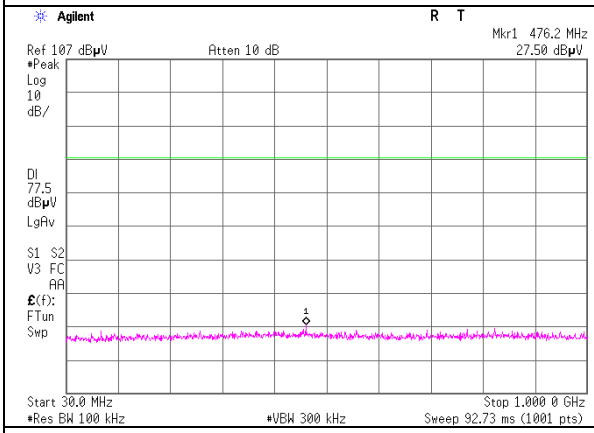
20GHz-25GHz



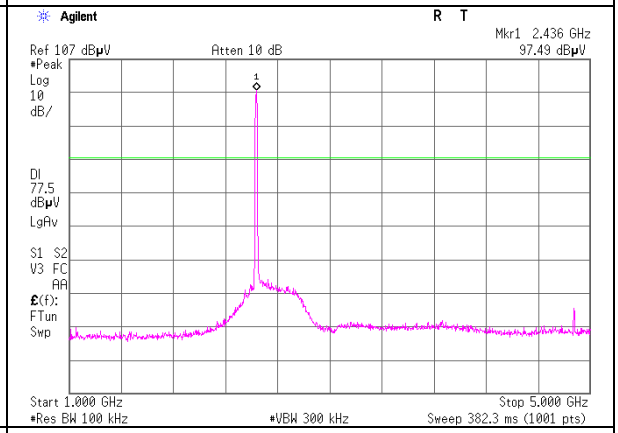
UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Conducted Spurious Emission
11b Tx, Ch: Mid 2Mbps

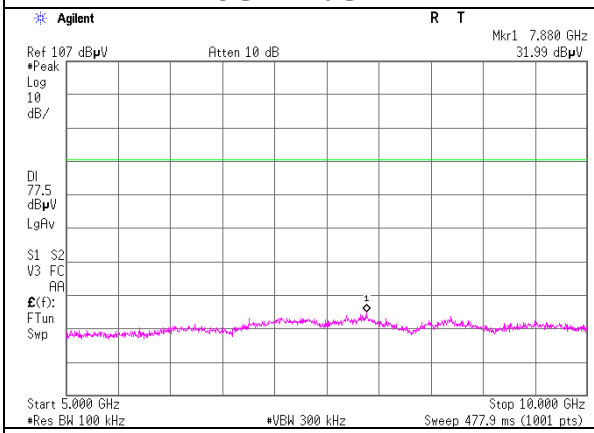
30MHz-1GHz



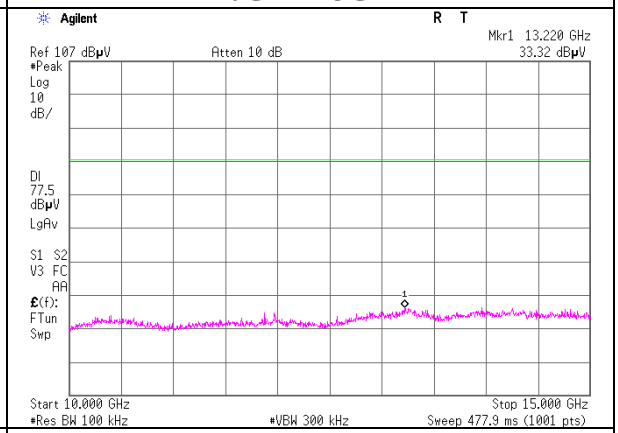
1GHz-5GHz



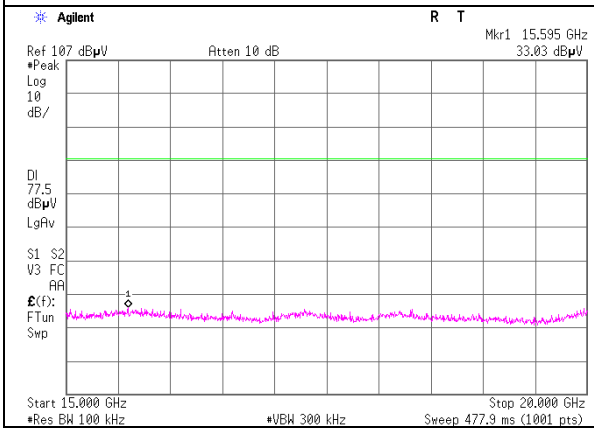
5GHz-10GHz



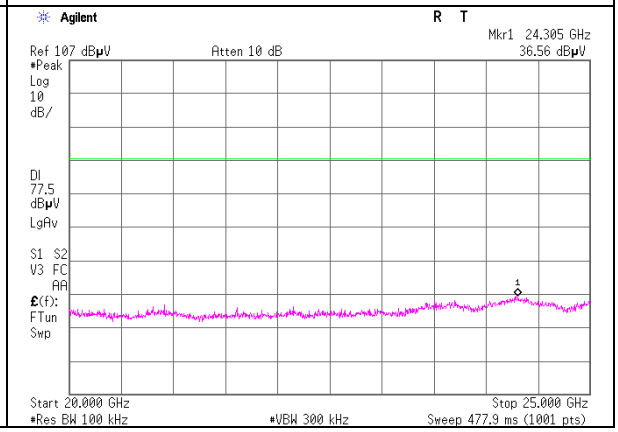
10GHz-15GHz



15GHz-20GHz



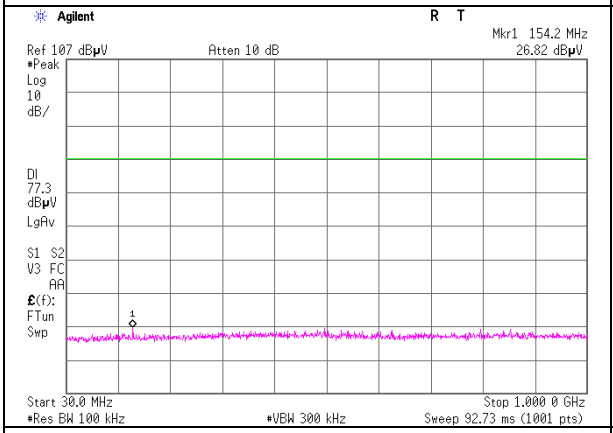
20GHz-25GHz



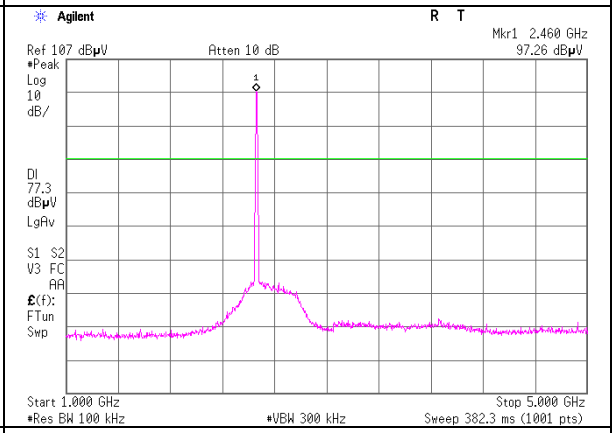
UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Conducted Spurious Emission
11b Tx, Ch: High 2Mbps

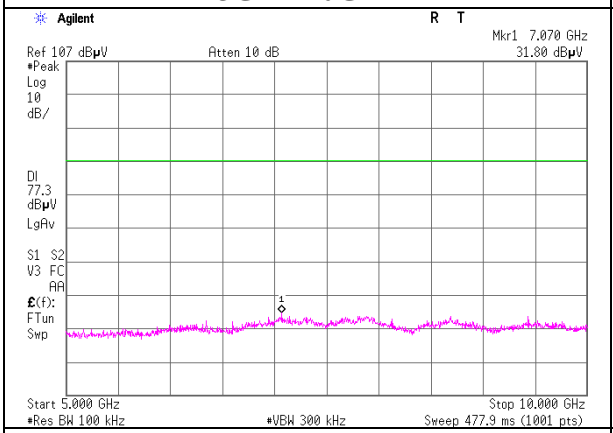
30MHz-1GHz



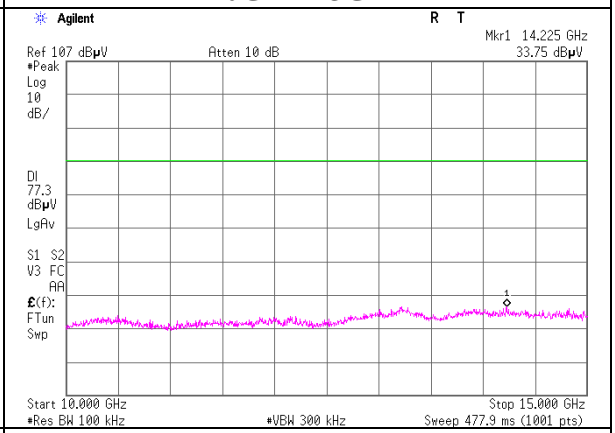
1GHz-5GHz



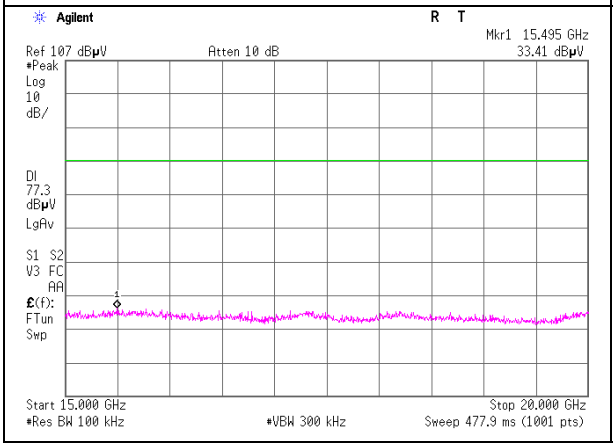
5GHz-10GHz



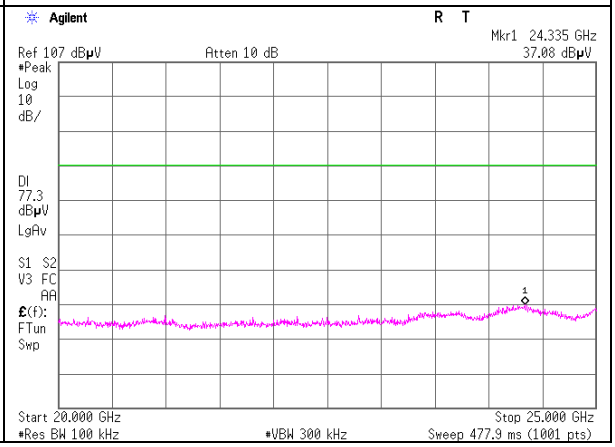
10GHz-15GHz



15GHz-20GHz



20GHz-25GHz



UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
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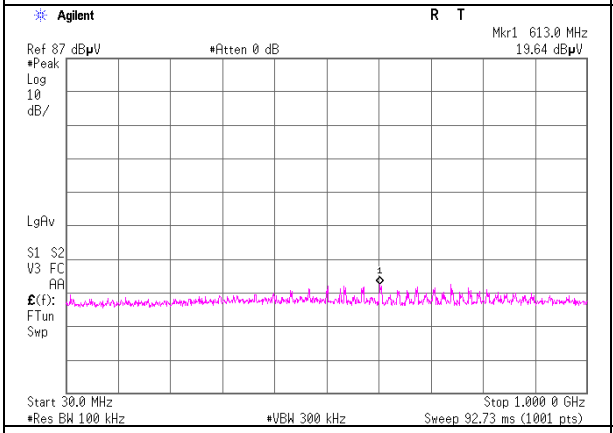
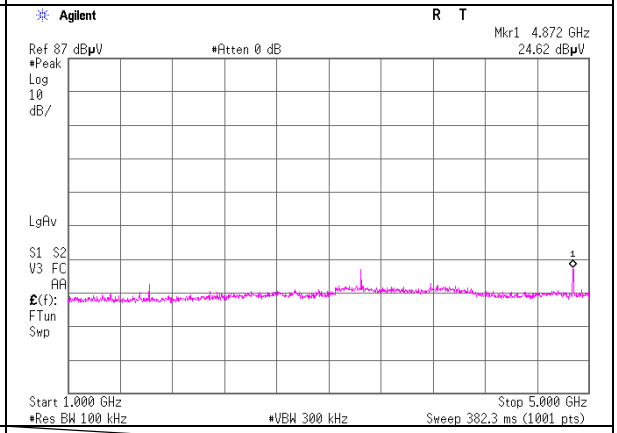
Facsimile : +81 596 24 8124

Conducted Spurious Emission
11b Rx, Ch: Mid 2Mbps

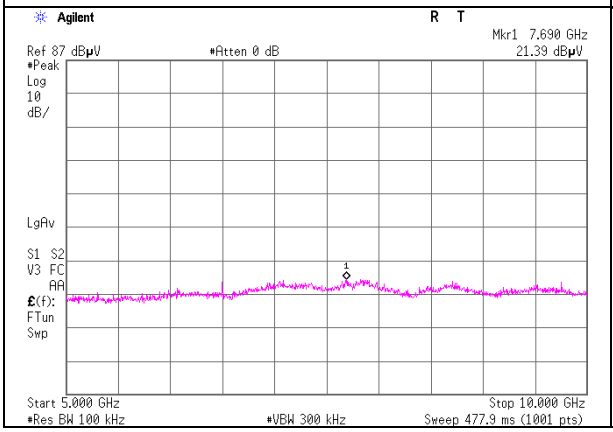
30MHz-1GHz



1GHz-5GHz



5GHz-10GHz



UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
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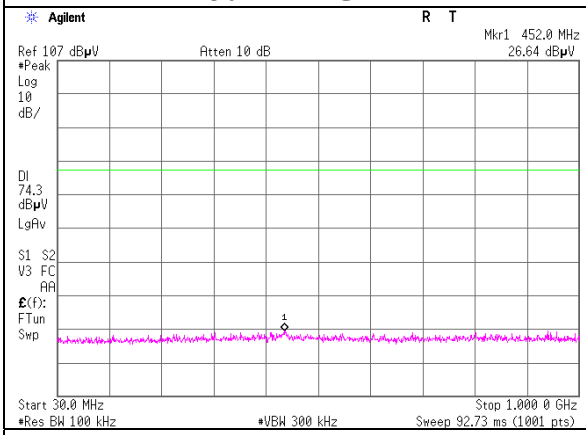
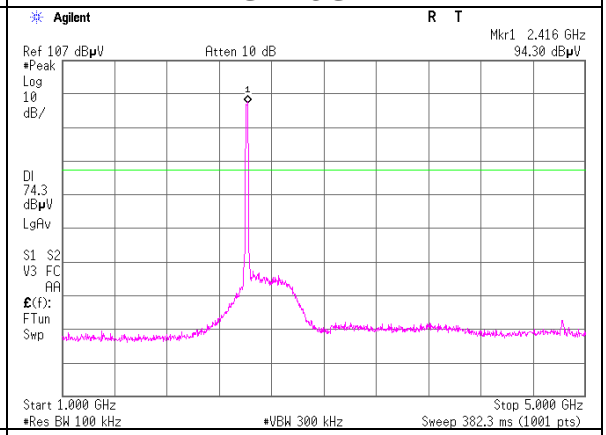
Facsimile : +81 596 24 8124

Conducted Spurious Emission
11g Tx, Ch: Low 24Mbps

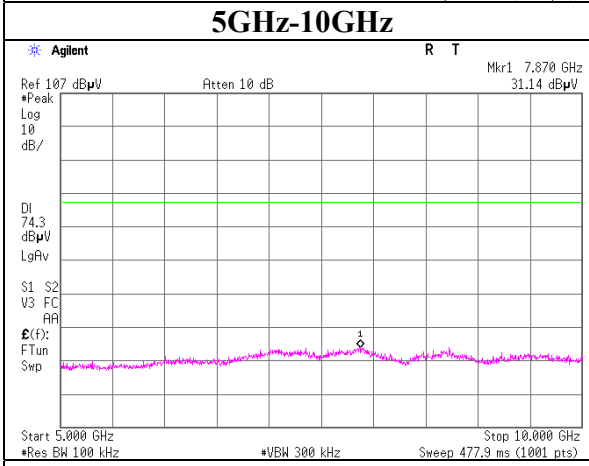
30MHz-1GHz



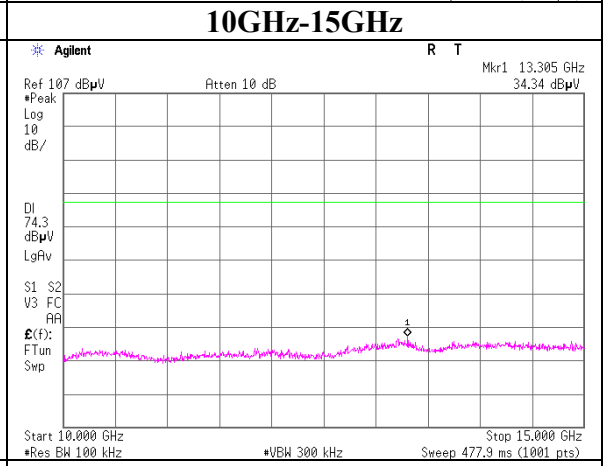
1GHz-5GHz



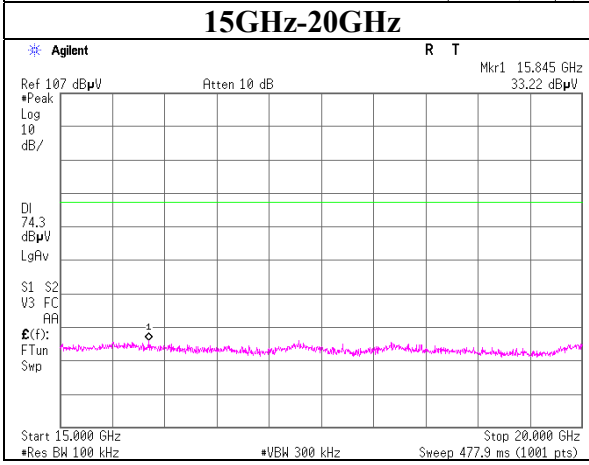
5GHz-10GHz



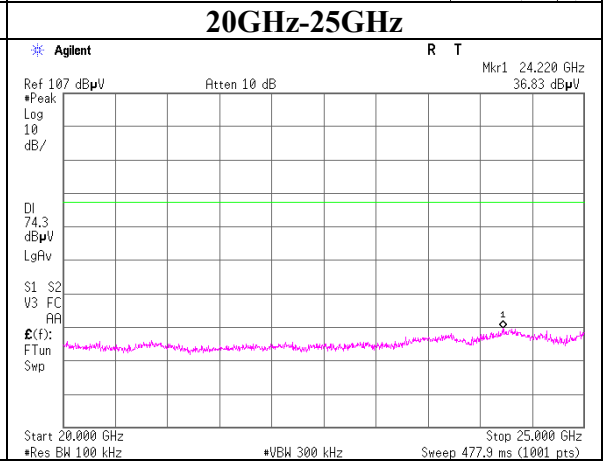
10GHz-15GHz



15GHz-20GHz



20GHz-25GHz



UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
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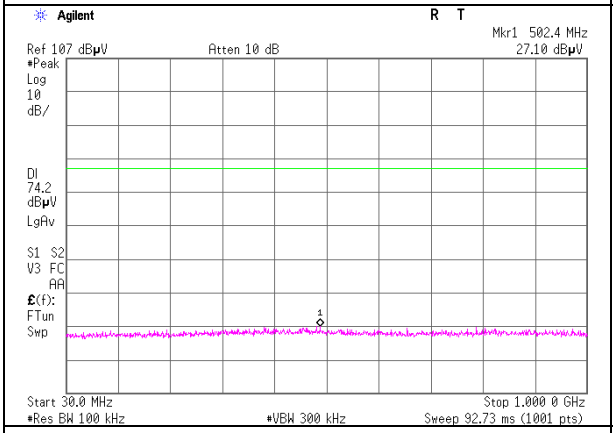
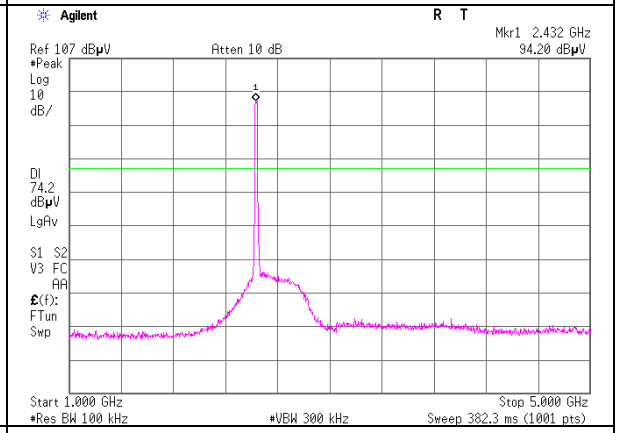
Conducted Spurious Emission
11g Tx, Ch: Mid 24Mbps

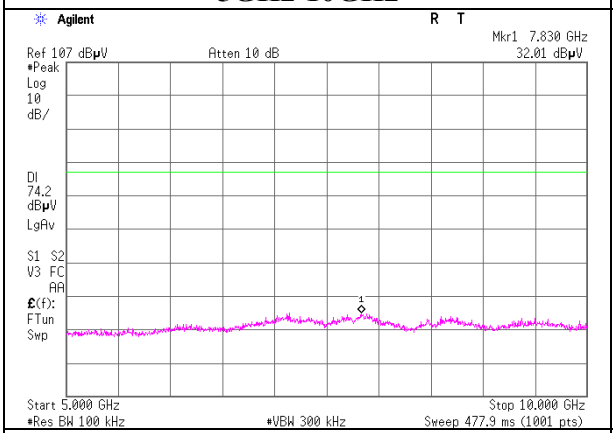
30MHz-1GHz



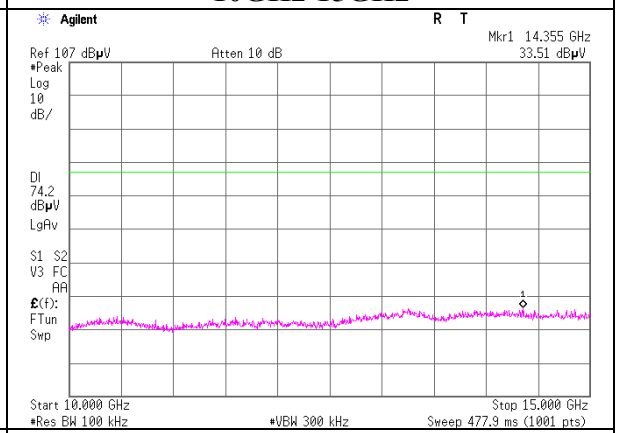
1GHz-5GHz



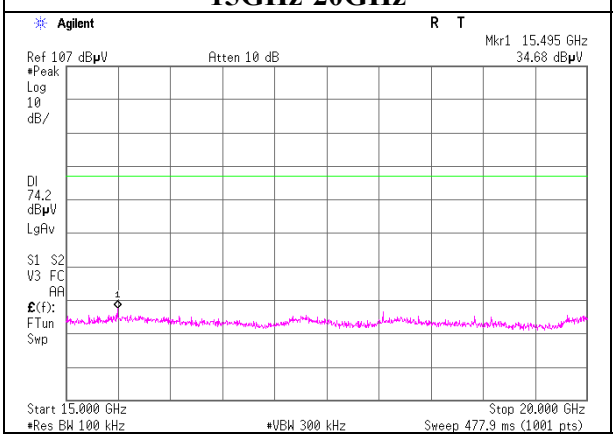
5GHz-10GHz



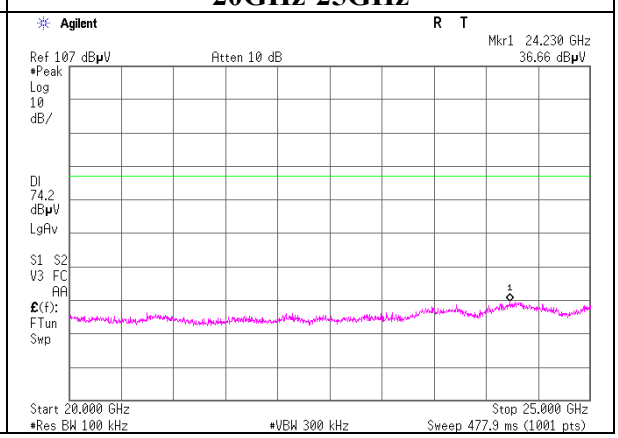
10GHz-15GHz



15GHz-20GHz



20GHz-25GHz



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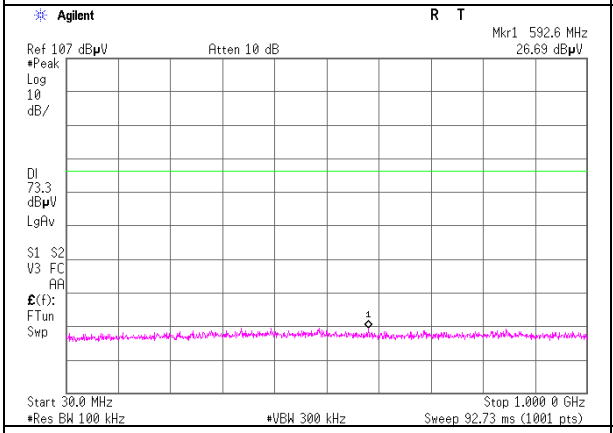
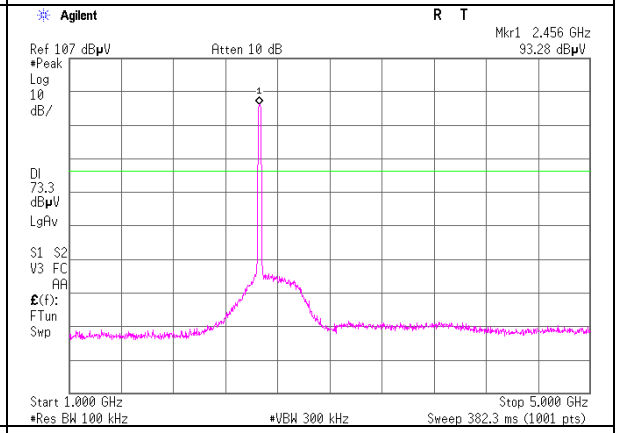
Conducted Spurious Emission
11g Tx, Ch: High 24Mbps

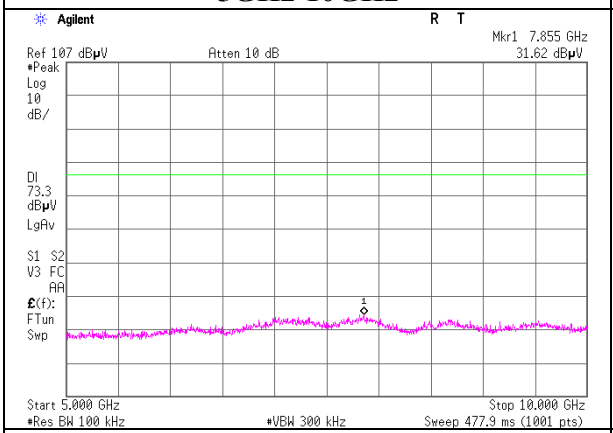
30MHz-1GHz



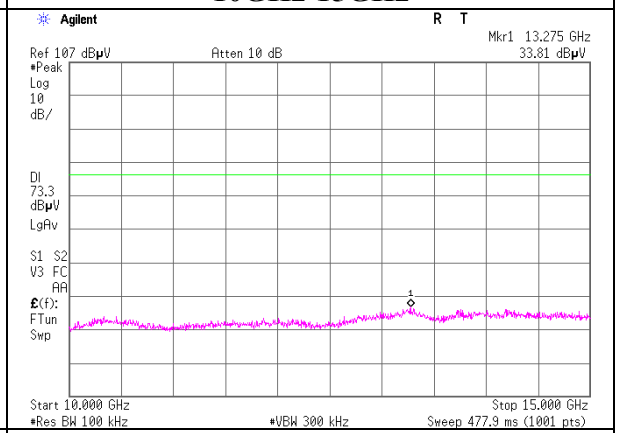
1GHz-5GHz



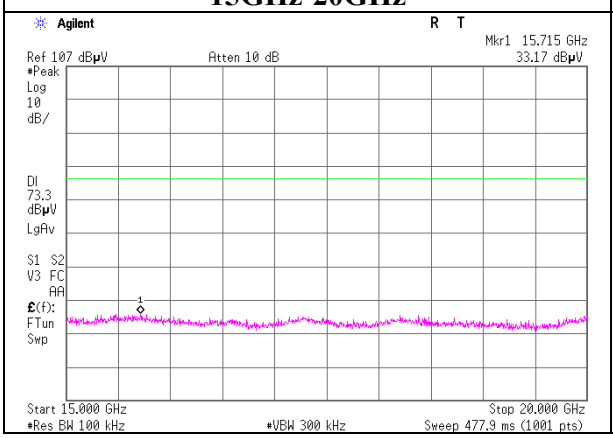
5GHz-10GHz



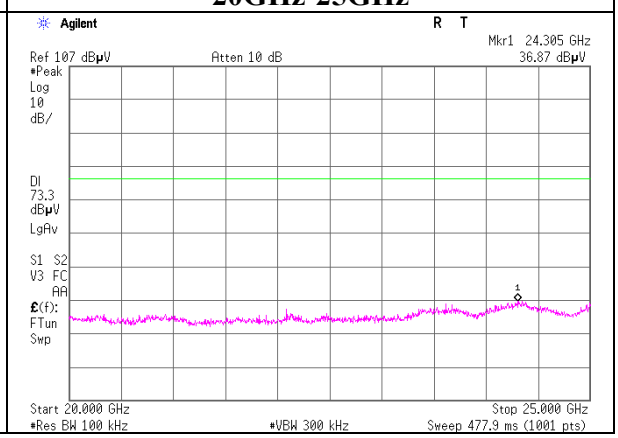
10GHz-15GHz



15GHz-20GHz



20GHz-25GHz



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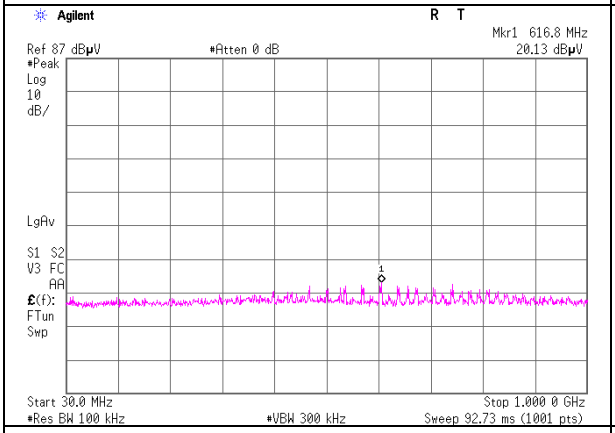
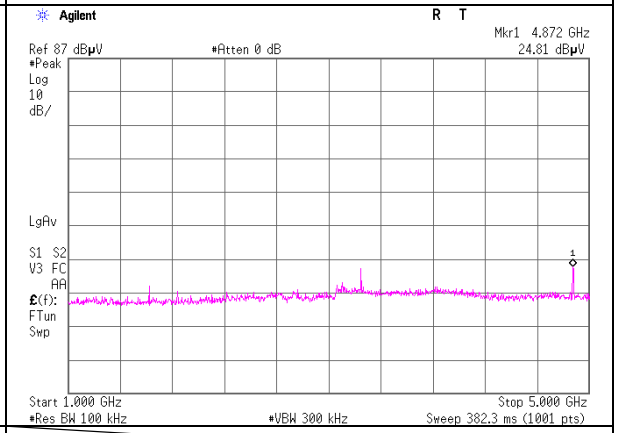
Conducted Spurious Emission
11g Rx, Ch: Mid 24Mbps

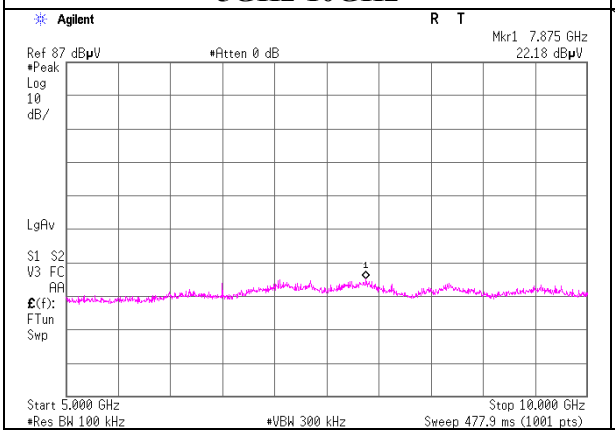
30MHz-1GHz



1GHz-5GHz



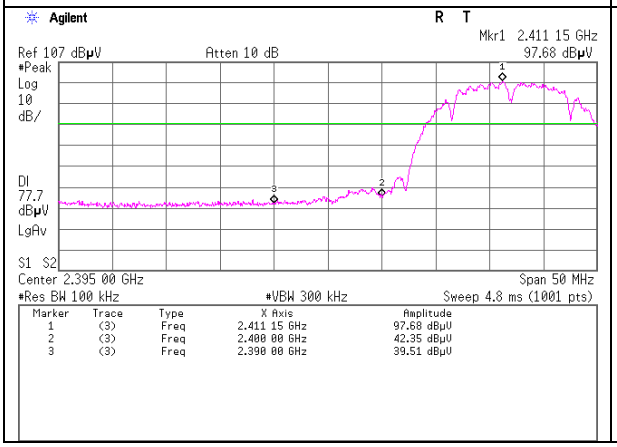
5GHz-10GHz



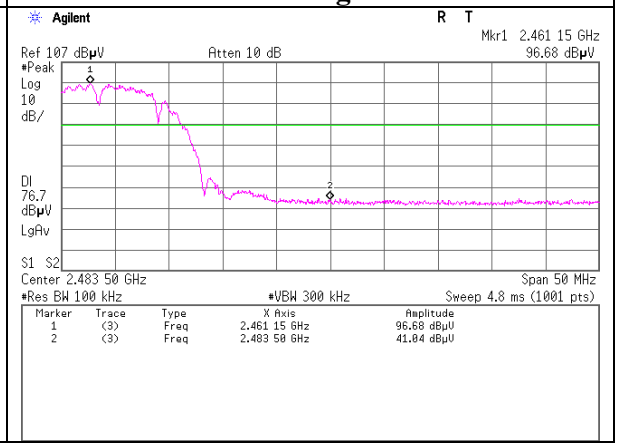
Conducted emission Band Edge compliance

11b 2Mbps

Ch:Low

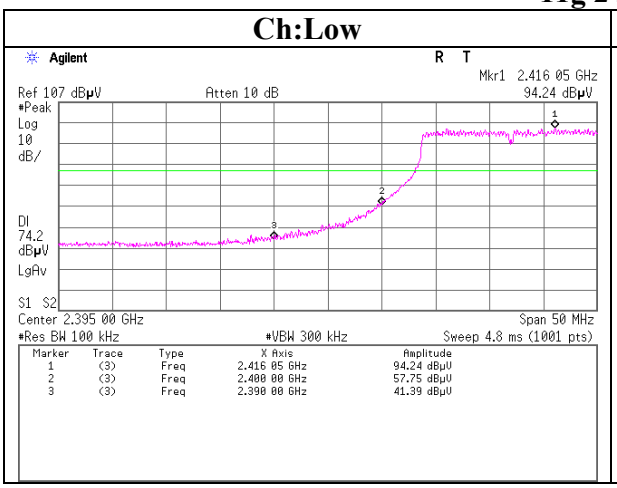


Ch:High

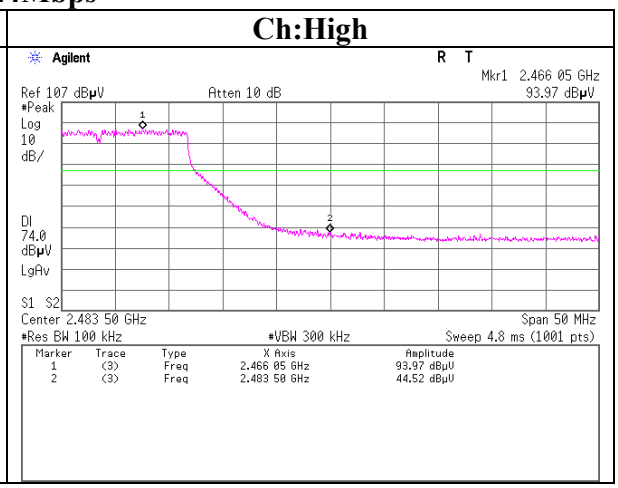


11g 24Mbps

Ch:Low



Ch:High



Power Density

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COMPANY	: Canon Inc.	REPORT NO	: 28AE0101-HO
QUIPMENT	: Wireless Module for Printer	REGULATION	: FCC15.247(e)/RSS-210A8.2(b)
MODEL	: FM33490	TEST DISTANCE	: -
SAMPLE NO.	: 10	DATE	: 08/12/07
POWER	: AC120V/60Hz (DC3.3V)	TEMPERATURE	: 23deg.C.
MODE	: Tx (Ch L, M, H)	HUMIDITY	: 68%
		ENGINEER	: Makoto Kosaka

[IEEE802.11b:2Mbps]

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2411.2	-22.32	1.3	10.1	-10.9	8.0	18.9
Mid	2436.2	-21.70	1.3	10.1	-10.3	8.0	18.3
High	2461.2	-22.03	1.3	10.1	-10.6	8.0	18.6

Sample Calculation:
Result = Reading + Cable Loss (spplied by customer) + Attenuator

[IEEE802.11g:24Mbps]

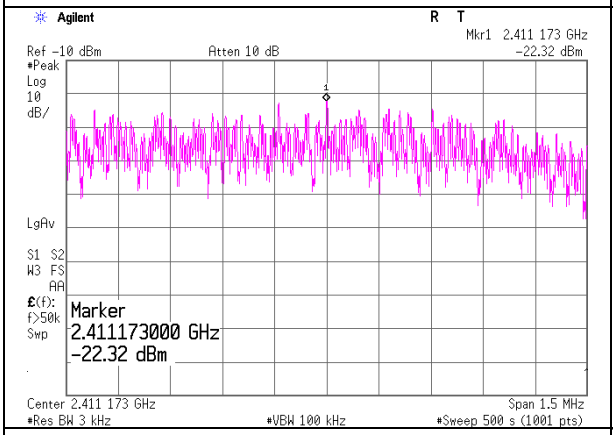
Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2412.0	-25.77	1.3	10.1	-14.4	8.0	22.4
Mid	2437.0	-24.04	1.3	10.1	-12.6	8.0	20.6
High	2462.0	-23.89	1.3	10.1	-12.5	8.0	20.5

Sample Calculation:
Result = Reading + Cable Loss (supplied by customer)+ Attenuator

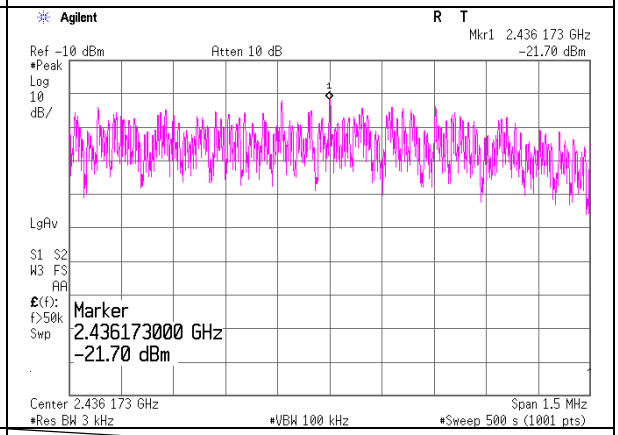
Power Density

11b 2Mbps

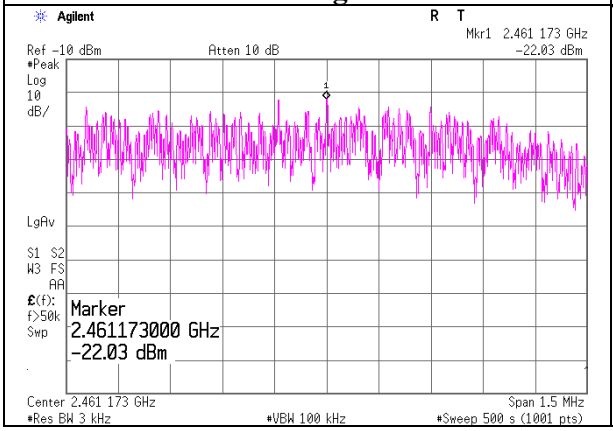
Ch:Low



Ch:Mid



Ch:High



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Head Office EMC Lab.
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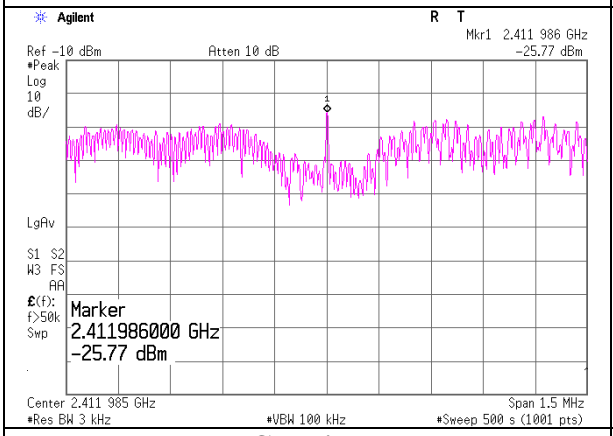
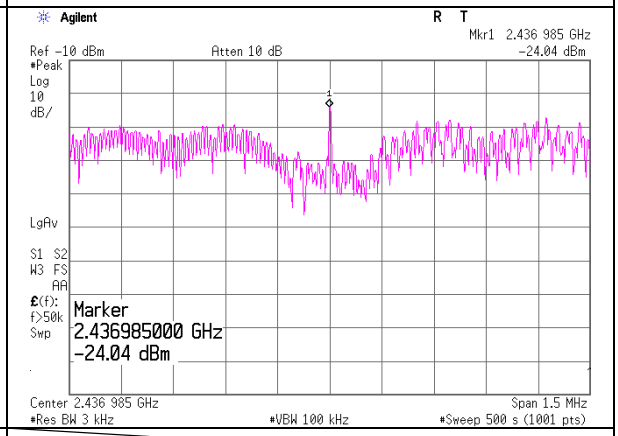
Power Density

11g 24Mbps

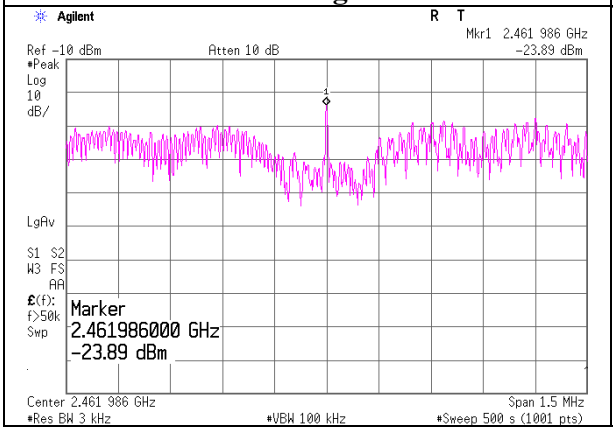
Ch:Low



Ch:Mid



Ch:High



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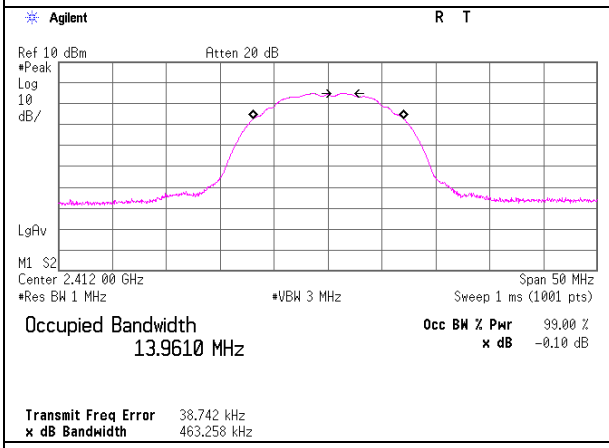
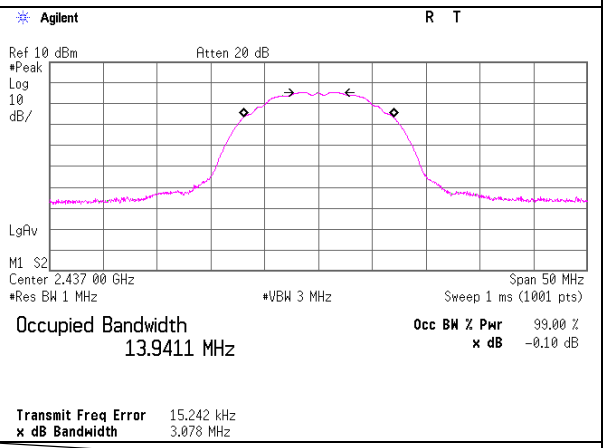
99%Occupied Bandwidth

11b 2Mbps

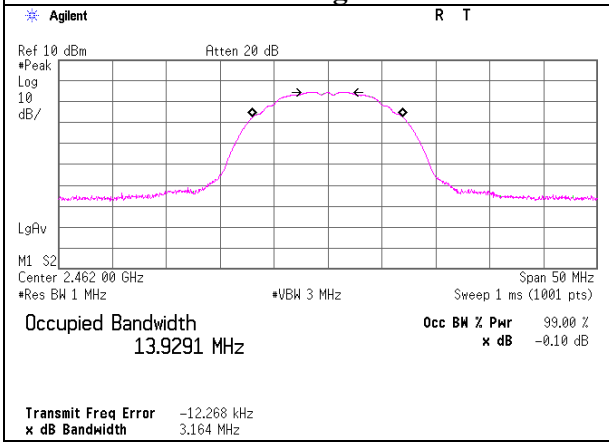
Ch:Low



Ch:Mid



Ch:High



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Head Office EMC Lab.
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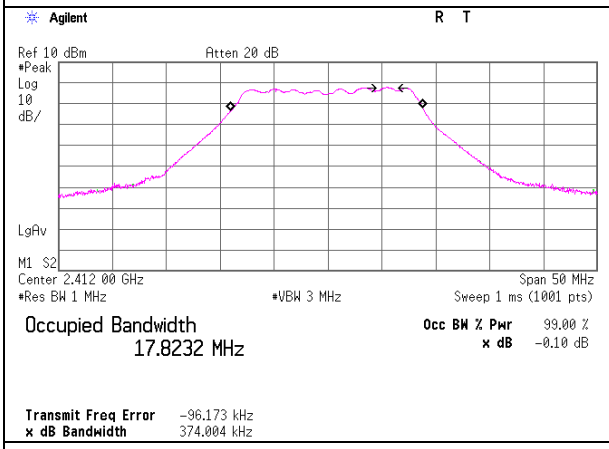
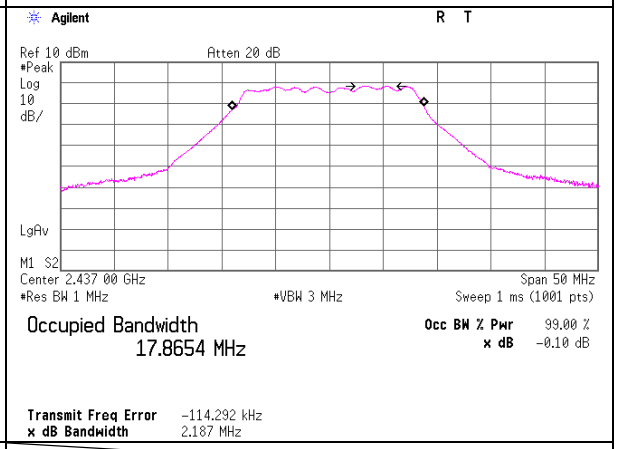
99%Occupied Bandwidth

11g 24Mbps

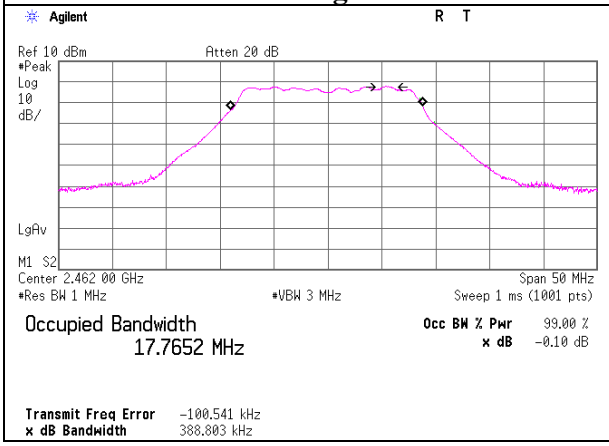
Ch:Low



Ch:Mid



Ch:High



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Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
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APPENDIX 3:Test instruments

EMI test equipment(1/2)

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MPM-09	Power Meter	Anritsu	ML2495A	AT	2006/09/20 * 12
MPSE-12	Power sensor	Anritsu	MA2411B	AT	2006/09/20 * 12
MSA-10	Spectrum Analyzer	Agilent	E4448A	AT	2007/07/04 * 12
MAT-25	Attenuator(10dB)(above1GHz)	Agilent	8493C	AT	2007/06/28 * 12
MCC-06	Microwave Cable 1G-26.5GHz 1m	Suhner	SUCOFLEX 104	AT	2007/02/26 * 12
MOS-14	Thermo-Hygrometer	Custom	CTH-180	AT	2006/01/19 * 24
MPSU-11	Power Supply	NF	ES1000S	AT	Pre Check
MAEC-02	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2007/04/02 * 12
MOS-02	Digital Humidity Indicator	N.T	NT-1800	RE	2006/11/27 * 12
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE / CE	-
MJM-05	Measure	PROMART	SEN1955	RE	-
MMM-01	Digital Tester	Fluke	FLUKE 26-3	RE	2006/08/08 * 12
MHA-06	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2007/01/30 * 12
MHA-01	Horn Antenna 18-26.5G	EMCO	3160-09	RE	2007/01/30 * 12
MCC-47	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2006/08/29 * 12
MCC-16	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX 104	RE	2007/02/22 * 12
MPA-10	Pre Amplifier	Agilent	8449B	RE	2006/09/11 * 12
MHF-06	High Pass Filter 3.5-24GHz	Tokimec	TF323DCA	RE	2007/05/30 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	RE	2007/06/20 * 12
MBA-02	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/10/07 * 12
MLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2006/10/07 * 12
MCC-12	Coaxial Cable	Fujikura/Agilent	-	RE	2007/02/27 * 12
MAT-07	Attenuator(6dB)	Weinschel Corp	2	RE	2006/12/27 * 12
MPA-09	Pre Amplifier	Agilent	8447D	RE	2006/09/07 * 12
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	RE / CE	2007/05/31 * 12

EMI test equipment(2/2)

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-01	Anechoic Chamber	TDK	Semi Anechoic Chamber 10m	CE	2006/11/01 * 12
MCC-03	Coaxial Cable	Fujikura/Suhner/Agilent/TSJ	-	CE	2006/12/28 * 12
MLS-02	LISN(AMN)	Schwarzbeck	NSLK8127	CE(EUT)	2007/06/29 * 12
MLS-03	LISN(AMN)	Schwarzbeck	NSLK8127	CE(AE)	2007/06/29 * 12
MTA-07	Terminator	MCL	BTRM-50	CE	2007/02/01 * 12
MOS-01	Digital Humidity Indicator	N.T	NT-1800	CE	2006/11/27 * 12
MJM-01	Measure	KDS	ES19-55	CE	-

The expiration date of the calibration is the end of the expired month.
All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

Test Item:

CE: Conducted Emission
RE: Radiated Emission
AT: Antenna Terminal Conducted