

SAR TEST REPORT

Test Report No. : 26IE0215-HO-A-1

Applicant : Nikon Corporation
Type of Equipment : WLAN Module
Model No. : 2143EB
FCC ID : CGJ2143EB
Test standard : FCC47CFR 2.1093
FCC OET Bulletin 65, Supplement C
Test Result : Complied
Max. SAR Measured : 0.149W/kg (Body, 2437MHz)

1. This test report shall not be reproduced except full or partial, without the written approval of UL Apex Co., Ltd.
2. The results in this report apply only to the sample tested.
3. This equipment is in compliance with the above standard. We hereby certify that the data contain a true representation of the SAR profile.
4. The test results in this test report are traceable to the national or international standards.

Date of test : June 26-28, 2006

Tested by : 
Miyo Ikuta
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://ulapex.jp/emc/nvlap.htm>

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SECTION 1 : Client information

Company Name	Nikon Corporation
Brand name	NIKON
Address	6-3, Nishi-ohi 1-chome, Shinagawa-ku, Tokyo 140-8601, Japan
Telephone Number	+81-3-3773-8395
Facsimile Number	+81-3-3773-1842
Contact Person	Kenji Ishizuki

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

2.1 Identification of E.U.T.

Type of Equipment	WLAN Module
Model No.	2143EB
Serial No.	17
Country of Manufacture	Japan
Condition of EUT	Production model
Operation Clock	40MHz
Receipt Date of Sample	June 26, 2006
Category Identified	Portable device

2.2 Product Description

Model No: 2143EB (referred to as the EUT in this report) is the Wireless LAN module (11b/g)

Radio Specification

Equipment Type	Transceiver
Frequency of Operation	2412-2462 MHz
Bandwidth & Channel spacing	20MHz / 5MHz
Max. Peak power tested	18.24dBm (67.14mW)
Type of Modulation	DSSS / OFDM
Method of frequency generation	Crystal
Power Supply	DC3.2V±0.2V

Antenna

Antenna type	Chip antenna
Antenna Gain	2.14dBi max.

SECTION 3 : Test standard information

3.1 Requirements for compliance testing defined by the FCC

The US Federal Communications Commission has released the report and order "Guidelines for Evaluating the Environmental Effects of RF Radiation", ET Docket No. 93-62 in August 1996. The order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 1.6 mW/g for an uncontrolled environment and 8.0 mW/g for an occupational/controlled environment as recommended by the ANSI/IEEE standard C95.1-1992. According to the Supplement C of OET Bulletin 65 "Evaluating Compliance with FCC Guide-lines for Human Exposure to Radio frequency Electromagnetic Fields", released on Jun 29, 2001 by the FCC, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

1 Specific Absorption Rate (SAR) is a measure of the rate of energy absorption due to exposure to an RF transmitting source (wireless portable device).

2 IEEE/ANSI Std. C95.1-1992 limits are used to determine compliance with FCC ET Docket 93-62.

3.2 Exposure limit

(A) Limits for Occupational/Controlled Exposure (W/kg)

Spatial Average (averaged over the whole body)	Spatial Peak (averaged over any 1g of tissue)	Spatial Peak (hands/wrists/feet/ankles averaged over 10g)
0.4	8.0	20.0

(B) Limits for General population/Uncontrolled Exposure (W/kg)

Spatial Average (averaged over the whole body)	Spatial Peak (averaged over any 1g of tissue)	Spatial Peak (hands/wrists/feet/ankles averaged over 10g)
0.08	1.6	4.0

Occupational/Controlled Environments: are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

General Population/Uncontrolled Environments: are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

**NOTE:GENERAL POPULATION/UNCONTROLLED EXPOSURE
SPATIAL PEAK(averaged over any 1g of tissue) LIMIT
1.6 W/kg**

SECTION 4 : Test result

4.1 Result of Max. SAR value

Max. SAR Measured (IEEE 802.11g) : 0.149 W/kg (Body, 2437MHz)

4.2 Test Location

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

SECTION 5 : Operation of E.U.T. during testing

5.1 Confirmation before / after SAR testing

Correlation of EMC power and SAR power

It was checked that the antenna port power is correlated within 0~+5% (FCC requirements) at EMC test (June 26,2006).

- EMC and SAR tests are performed with the same test sample under the same condition.
- EMC and SAR tests are performed at the same laboratory.
- The test mode setting is simple, and there is no possibility that the power (value) is changed by the wrong setting.

The result is shown in Clause 7.1.

5.2 Operating modes for SAR testing

5.2.1 Setting of EUT

1. IEEE 802.11b mode

Tx frequency band : 2412-2462MHz
Channel : 1ch(2412MHz),6ch(2437MHz),11ch(2462MHz)
Modulation : DSSS (DBPSK,DQPSK,CCK)
Crest factor : 1

2. IEEE 802.11g mode

Tx frequency band : 2412-2462MHz
Channel : 1ch(2412MHz),6ch(2437MHz),11ch(2462MHz)
Modulation : OFDM (BPSK, QPSK, 16QAM, 64QAM)
Crest factor : 1

5.2.2 SAR Measurement (Radiated power is always monitored by Spectrum Analyzer.)

IEEE 802.11b

The 11b (DSSS) mode test was performed on the CCK[11Mbps] modulation, because it was the highest peak power and data rate.

Step1. The searching for the worst position

Step2. The changing to the Low and High channels

This test was performed at the worst conditions of Step 1

IEEE 802.11g

Step3. The searching for the worst modulation.

The data rate in the higher peak power each modulation was decided, then the worst modulation was searched in the SAR testing.

Step4. The searching for the worst position

This test was performed at the worst modulation of Step3.

Step5. The changing to the Low and High channels

This test was performed at the worst conditions of Step 4.

Change distance between EUT and SAM Twin Phantom

Step6. The measurement was performed with the distance, 5mm,10mm and 15mm to check if the shortest distance may not have the worst value at the conditions of the highest SAR value. As a result, the shortest distance had the worst value

5.2.3 About Head SAR measurement

Head SAR measurement is only for reference.

5.3 Test setup of EUT

When users operate or carry the EUT, it could be considered to touch or get close to their bodies. In order to assume this situation, we performed the test at the following positions. Please refer to "APPENDIX 1" for more details.

(1) Front:

The test was performed in touch with Front surface of the EUT to the flat section of SAM Twin phantom.

(2) Back :

The test was performed in touch with Back of the EUT to the flat section of SAM Twin phantom.

(3) Top :

The test was performed in touch with Top surface of the EUT to the flat section of SAM Twin phantom.

(4) Bottom :

The test was performed in touch with Bottom surface of the EUT to the flat section of SAM Twin phantom.

(5) Left Side :

The test was performed in touch with Left Side surface of the EUT to the flat section of SAM Twin phantom.

(6) Right Side :

The test was performed in touch with Right Side surface of the EUT to the flat section of SAM Twin phantom.

(7) Left Side (5mm) :

The measurement opened 5mm distance between EUT and flat section of SAM Twin Phantom.

(8) Left Side (10mm) :

The measurement opened 10mm distance between EUT and flat section of SAM Twin Phantom.

(9) Left Side (15mm) :

The measurement opened 15mm distance between EUT and flat section of SAM Twin Phantom.

*The test setup photograph is put on appendix 1.

SECTION 6 : Test surrounding

6.1 Measurement uncertainty

The uncertainty budget has been determined for the DASy4 measurement system according to the SPEAG documents[6][7] and is given in the following Table.

Error Description	Uncertainty value \pm %	Probability distribution	divisor	(ci) 1g	Standard Uncertainty (1g)	vi or v _{eff}
Measurement System						
Probe calibration	± 6.8	Normal	1	1	± 6.8	∞
Axial isotropy of the probe	± 4.7	Rectangular	$\sqrt{3}$	$(1-c_p)^{1/2}$	± 1.9	∞
Spherical isotropy of the probe	± 9.6	Rectangular	$\sqrt{3}$	$(c_p)^{1/2}$	± 3.9	∞
Boundary effects	± 2.0	Rectangular	$\sqrt{3}$	1	± 1.2	∞
Probe linearity	± 4.7	Rectangular	$\sqrt{3}$	1	± 2.7	∞
Detection limit	± 1.0	Rectangular	$\sqrt{3}$	1	± 0.6	∞
Readout electronics	± 0.3	Normal	1	1	± 0.3	∞
Response time	± 0.8	Rectangular	$\sqrt{3}$	1	± 0.5	∞
Integration time	± 2.6	Rectangular	$\sqrt{3}$	1	± 1.5	∞
RF ambient Noise	± 3.0	Rectangular	$\sqrt{3}$	1	± 1.7	∞
RF ambient Reflections	± 3.0	Rectangular	$\sqrt{3}$	1	± 1.7	∞
Probe Positioner	± 0.8	Rectangular	$\sqrt{3}$	1	± 0.5	∞
Probe positioning	± 9.9	Rectangular	$\sqrt{3}$	1	± 5.7	∞
Max.SAR Eval.	± 4.0	Rectangular	$\sqrt{3}$	1	± 2.3	∞
Test Sample Related						
Device positioning	± 2.9	Normal	1	1	± 2.9	40
Device holder uncertainty	± 3.6	Normal	1	1	± 3.6	8
Power drift	± 10.0	Rectangular	$\sqrt{3}$	1	± 5.8	∞
Phantom and Setup						
Phantom uncertainty	± 4.0	Rectangular	$\sqrt{3}$	1	± 2.3	∞
Liquid conductivity (target)	± 5.0	Rectangular	$\sqrt{3}$	0.64	± 1.8	∞
Liquid conductivity (meas.)	± 5.0	Rectangular	1	0.64	± 3.2	∞
Liquid permittivity (target)	± 5.0	Rectangular	$\sqrt{3}$	0.6	± 1.7	∞
Liquid permittivity (meas.)	± 5.0	Rectangular	1	0.6	± 3.0	∞
Combined Standard Uncertainty					± 14.360	
Expanded Uncertainty (k=2)					± 28.7	

The test result shows that the power drift exceeded $\pm 5\%$. Therefore, the uncertainty of power drift expanded to $\pm 10\%$. However, the extended uncertainty ($k=2$) of a test is less than 30%.

SECTION 7 : Confirmation before/after testing

7.1 Conducted power before

This data is reference data for EMC test. (Report No. 26IE0215-HO-C)

Date of test: June 26, 2006

[IEEE802.11b: 11Mbps]						
Ch	Freq. [MHz]	PM Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Converted [mW]
1	2412	1.98	0.95	10.00	12.93	19.63
6	2437	1.57	0.95	10.00	12.52	17.86
11	2462	1.74	0.95	10.00	12.69	18.58

[IEEE802.11g: 54Mbps]						
Ch	Freq. [MHz]	PM Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Converted [mW]
1	2412	7.32	0.95	10.00	18.27	67.14
6	2437	7.04	0.95	10.00	17.99	62.95
11	2462	7.02	0.95	10.00	17.97	62.66

[IEEE802.11b : 2437MHz]						
Ch	Modulation (Data rate [bps])	PM Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Converted [mW]
6	DBPSK (1Mbps)	1.51	0.95	10.00	12.46	17.62
6	DQPSK(2Mbps)	1.50	0.95	10.00	12.45	17.58
6	CCK(5.5Mbps)	1.48	0.95	10.00	12.43	17.50
6	CCK(11Mbps)	1.57	0.95	10.00	12.52	17.86

[IEEE802.11g : 2437MHz]						
Ch	Modulation (Data rate [bps])	PM Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Converted [mW]
6	BPSK (6Mbps)	7.01	0.95	10.00	17.96	62.52
6	BPSK (9Mbps)	6.82	0.95	10.00	17.77	59.84
6	QPSK(12Mbps)	6.81	0.95	10.00	17.76	59.70
6	QPSK(18Mbps)	6.72	0.95	10.00	17.67	58.48
6	16QAM(24Mbps)	6.90	0.95	10.00	17.85	60.95
6	16QAM(36Mbps)	6.96	0.95	10.00	17.91	61.80
6	64QAM(48Mbps)	6.99	0.95	10.00	17.94	62.23
6	64QAM(54Mbps)	7.04	0.95	10.00	17.99	62.95

Sample Calculation:

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

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7.2 Conducted power after

Date of test: June 28, 2006

The worst rate in the SAR teting

IEEE802.11g: 11Mbps						
Ch	Freq. [MHz]	PM Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Converted [mW]
1	2412	2.01	0.95	10.00	12.96	19.77
6	2437	1.76	0.95	10.00	12.71	18.66
11	2462	1.74	0.95	10.00	12.69	18.58

IEEE802.11g: 54Mbps						
Ch	Freq. [MHz]	PM Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Converted [mW]
1	2412	7.32	0.95	10.00	18.27	67.14
6	2437	7.13	0.95	10.00	18.08	64.27
11	2462	7.05	0.95	10.00	18.00	63.10

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SECTION 8 : Measurement results

8.1 Body SAR 2450MHz

Liquid Depth (cm) : **15.0** Model : **2143EB**
Parameters : $\epsilon_r = 50.1, \sigma = 2.01$ Serial No. : **17**
Ambient temperature (deg.c.) : **25.0** Modulation : **DSSS,OFDM**
Relative Humidity (%) : **45** Crest factor : **1**
Date : **June 27, 2006** Measured By : **Miyo Ikuta**

BODY SAR MEASUREMENT RESULTS									
Frequency			Modulation	Phantom Section	EUT Set-up Conditions		Liquid Temp.[deg.c]		SAR(1g) [W/kg]
Band	Channel	[MHz]			Position	Separation [mm]	Before	After	value of multi-peak
11b	Step 1 Position Search								
	Mid	2437	CCK(11Mbps)	Flat	Front	0	24.0	24.0	0.131
	Mid	2437	CCK(11Mbps)	Flat	Back	0	24.0	24.0	0.070
	Mid	2437	CCK(11Mbps)	Flat	Top	0	24.0	24.0	0.093
	Mid	2437	CCK(11Mbps)	Flat	Bottom	0	24.0	24.0	0.00964
	Mid	2437	CCK(11Mbps)	Flat	Left Side	0	24.0	24.0	0.091
	Mid	2437	CCK(11Mbps)	Flat	Right Side	0	24.0	24.0	0.0028
	Step 2 Frequency Change								
	Low	2412	CCK(11Mbps)	Flat	Front	0	24.0	24.0	0.141
High	2462	CCK(11Mbps)	Flat	Front	0	24.0	24.0	0.135	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Body SAR: 1.6 W/kg		
Spatial Peak Uncontrolled Exposure / General Population							(averaged over 1 gram)		

BODY SAR MEASUREMENT RESULTS									
Frequency			Modulation	Phantom Section	EUT Set-up Conditions		Liquid Temp.[deg.c]		SAR(1g) [W/kg]
Band	Channel	[MHz]			Position	Separation [mm]	Before	After	value of multi-peak
11g Step 3 Modulation Search									
	Mid	2437	BPSK(6Mbps)	Flat	Front	0	24.1	24.1	0.113
	Mid	2437	QPSK(12Mbps)	Flat	Front	0	24.2	24.3	0.134
	Mid	2437	16QAM(36Mbps)	Flat	Front	0	24.3	24.3	0.121
	Mid	2437	64QAM(54Mbps)	Flat	Front	0	24.3	24.3	0.149
Step 4 Position search									
	Mid	2437	64QAM(54Mbps)	Flat	Back	0	24.3	24.3	0.065
	Mid	2437	64QAM(54Mbps)	Flat	Top	0	24.3	24.3	0.079
	Mid	2437	64QAM(54Mbps)	Flat	Bottom	0	24.3	24.2	0.00854
	Mid	2437	64QAM(54Mbps)	Flat	Left side	0	24.2	24.2	0.084
	Mid	2437	64QAM(54Mbps)	Flat	Right side	0	24.2	24.2	0.00289
Step 5 Frequency Change									
	Low	2412	64QAM(54Mbps)	Flat	Front	0	24.2	24.2	0.135
	High	2462	64QAM(54Mbps)	Flat	Front	0	24.2	24.2	0.104
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body SAR: 1.6 W/kg	
Spatial Peak Uncontrolled Exposure / General Population								(averaged over 1 gram)	

Distance between EUT and SAM phantom

BODY SAR MEASUREMENT RESULTS									
Frequency			Modulation (Data rate[bps])	Phantom Section	EUT Set-up Conditions		Liquid Temp.[deg.c]		SAR(1g) [W/kg]
Mode	Channel	[MHz]			Position	Separation [mm]	Before	After	Maximum value of multi-peak
Step 6 Distance between EUT and SAM phantom									
11g	6	2437	64QAM(54Mbps)	Flat	Front	5	24.0	24.0	0.034
	6	2437	64QAM(54Mbps)	Flat	Front	10	24.0	24.0	0.022
	6	2437	64QAM(54Mbps)	Flat	Front	15	24.0	24.0	0.012
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body SAR: 1.6 W/kg	
Spatial Peak Uncontrolled Exposure / General Population								(averaged over 1 gram)	

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8.2 Reference Head SAR 2450MHz

Liquid Depth (cm) : **15.0** Model : **2143EB**
Parameters : $\epsilon_r = 37.4, \sigma = 1.88$ Serial No. : **17**
Ambient temperature (deg.c.) : **25.0** Modulation : **DSSS**
Relative Humidity (%) : **44** Crest factor : **1**
Date : **June 28, 2006** Measured By : **Miyo Ikuta**

HEAD SAR MEASUREMENT RESULTS OF MAIN ANTENNA									
Frequency			Modulation	Phantom Section	EUT Set-up Conditions		Liquid Temp.[deg.c]		SAR(1g) [W/kg]
Band	Channel	[MHz]			Position	Separation [mm]	Before	After	value of multi-peak
11b	Position Search								
	Mid	2437	CCK(11Mbps)	Flat	Front	0	24.3	24.3	0.159
	Mid	2437	CCK(11Mbps)	Flat	Back	0	24.3	24.3	0.063
	Mid	2437	CCK(11Mbps)	Flat	Top	0	24.3	24.3	0.123
	Mid	2437	CCK(11Mbps)	Flat	Bottom	0	24.3	24.3	0.013
	Mid	2437	CCK(11Mbps)	Flat	Left Side	0	24.3	24.3	0.135
	Mid	2437	CCK(11Mbps)	Flat	Right Side	0	24.3	24.3	0.00344
	Frequency Change								
	Low	2412	CCK(11Mbps)	Flat	Front	0	24.3	24.3	0.196
	High	2462	CCK(11Mbps)	Flat	Front	0	24.3	24.3	0.115
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Head SAR: 1.6 W/kg	
Spatial Peak Uncontrolled Exposure / General Population								(averaged over 1 gram)	

HEAD SAR MEASUREMENT RESULTS									
Frequency			Modulation	Phantom Section	EUT Set-up Conditions		Liquid Temp.[deg.c]		SAR(1g) [W/kg]
Band	Channel	[MHz]			Position	Separation [mm]	Before	After	value of multi-peak
11g	Modulation Search								
	Mid	2437	BPSK(9Mbps)	Flat	Front	0	24.3	24.3	0.112
	Mid	2437	QPSK(12Mbps)	Flat	Front	0	24.3	24.3	0.131
	Mid	2437	16QAM(36Mbps)	Flat	Front	0	24.3	24.3	0.126
	Mid	2437	64QAM(54Mbps)	Flat	Front	0	24.3	24.3	0.170
	Position search								
	Mid	2437	64QAM(54Mbps)	Flat	Back	0	24.3	24.4	0.072
	Mid	2437	64QAM(54Mbps)	Flat	Top	0	24.4	24.4	0.107
	Mid	2437	64QAM(54Mbps)	Flat	Bottom	0	24.3	24.3	0.011
	Mid	2437	64QAM(54Mbps)	Flat	Left side	0	24.3	24.3	0.101
	Mid	2437	64QAM(54Mbps)	Flat	Right side	0	24.3	24.3	0.00332
	Frequency Change								
	Low	2412	64QAM(54Mbps)	Flat	Front	0	24.3	24.3	0.107
	High	2462	64QAM(54Mbps)	Flat	Front	0	24.3	24.3	0.126
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Head SAR: 1.6 W/kg		
Spatial Peak Uncontrolled Exposure / General Population							(averaged over 1 gram)		

* The measurement data is put on appendix 3.

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