



SAR TEST REPORT

Test Report No. : 4786001103S-A

Applicant : Canon Inc.
Type of Equipment : Wireless Module
Model No. : RF400 (*. Installed into the RF400's platform (1))
FCC ID : AZD400
Test Standard : FCC 47CFR §2.1093,
 Supplement C (Edition 01-01) to OET Bulletin 65
Test Result : Complied

Highest reported SAR(1g) Value	Platform#	Platform type	Platform model	Remarks
0.79 W/kg (*. Power scaled)	Platform (1)	Digital Video Camcorder (1)	ID0025	(UNII) 5280MHz, IEEE 802.11a (6Mbps)

- *. Highest reported SAR (1g) across exposure conditions = 0.79 W/kg (*.power scaled) = grant listing.
- *. The highest reported SAR (1g) was ≤ 0.8W/kg for all configurations tested. In according to the KDB447498 D01(v05), EUT was approved for used in multi-platform.

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Date of test: January 23, 25, 28 and 29, 2013

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- The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan.
- There is no testing item of "Non-accreditation".

REVISION HISTORY

Revision	Test report No.	Date	Page revised	Contents
Original	4786001103S-A	February 25, 2013	-	-
-R01	4786001103S-A	April 1, 2013	p1,2,14,43,51	A written mistake is corrected.

*. By issue of new revision report, the report of an old revision becomes invalid.

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SECTION 1: Customer information

Company Name	Canon Inc.
Brand Name	Canon
Address	30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501 Japan
Telephone Number	81-3-5482-8070
Facsimile Number	81-3-3757-8431
Contact Person	Yasushi Sasaki

SECTION 2: Equipment under test (EUT)**2.1 Identification of EUT**

Type of Equipment	Wireless Module
Model Number, Size of EUT	Wireless Module: RF400 Size: 30mm×15mm×t=3mm Platform (1) - Digital Video Camcorder: ID0025 Size: 90mm (W) ×150mm (D) × 75mm (H) (*. LCD is normal closed. Without handle unit.)
Serial Number	Wireless Module: 03 Platform (1): 01
Condition of EUT	Wireless Module: Production model Platform(1): Engineering prototype (Not for sale; This sample is equivalent to mass-production items)
Receipt Date of Sample	December 20, 2012 (*. EUT for the power measurement.) January 18, 2013 (*. EUT for the SAR test. The EUT that had been measured the power of SAR test reference, was installed into the platform (1)-digital video camcorder (1) from the beginning. After power measurement, the EUT was returned to the customer, and installed into a Platform (1) which SAR tested, by the customer.) *. No modification by the Lab.
Category Identified	Portable device *. Since EUT may contact and/or very close to a human body during Wi-Fi operation, the partial-body SAR (1g) shall be observed. *. Since EUT is hand-held and hand-operated device with output power not more than 14dBm and in addition, the limit of hands SAR (10g) is much higher than the limit of the partial-body SAR (1g), the SAR test of hand SAR (10g) shall not be applied.
Feature of EUT	The EUT is a Wireless Module which installs into the multi-platform.
SAR Accessory	Grip belt (non metal), Handle unit (metal)
Tested consideration	During SAR test, the EUT was operated by the full-charged battery. The SAR test was applied two conditions, one was with metal accessory and other was without metal accessory.

2.2 Product Description (Wireless Module: RF400)

Equipment type	Transceiver		
Frequency of operation	2412-2462MHz (11b,g,n(20HT)) 2422-2452MHz (11n(40HT))	5260-5320MHz (11a,n(20HT)) 5270-5310MHz (11n(40HT))	5745-5805MHz (11a,n(20HT)) 5755-5795MHz (11n(40HT))
Channel spacing	5MHz		
Bandwidth	20MHz (11b,g,n(20HT)), 40MHz (11n(40HT))		
ITU code	G1D, D1D		D1D
Type of modulation	DSSS(11b), OFDM(11g,n(20HT),n(40HT))		OFDM(11a,n(20HT),n(40HT))
Q'ty of Antenna	1 pc.		
Antenna type / Model name	Monopole type chip antenna		
Antenna connector type	Printed on PCB		
Antenna gain (max.peak)	2.1 dBi (2.4GHz)		2.4 dBi (5GHz)
Transmit power and tolerance (Manufacture variation)	11b: 12dBm ±2dBm 11g: 12dBm ±2dBm 11n(20HT): 12dBm ±2dBm 11n(40HT): 12dBm ±2dBm *. Refer to clause 2.3 for more detail. *. The measured Tx output power (conducted) refers to section 6 in this report.	11a: 12dBm ±2dBm 11n(20HT): 12dBm ±2dBm 11n(40HT): 12dBm ±2dBm *. Refer to clause 2.3 for more detail.	
Maximum output power which may possible	11b: 14dBm 11g: 14dBm 11n(20HT): 14dBm 11n(40HT): 14dBm *. Refer to clause 2.4 for more detail.	11a: 14dBm 11n(20HT): 14dBm 11n(40HT): 14dBm *. Refer to clause 2.4 for more detail.	
Power supply	DC 3.3V (*. The power of DC3.3V is supplied from the platform via constant voltage circuit.)		
Operation temperature range	-20 to +80 deg.C		

*. The EUT do not use the special transmitting technique such as "beam-forming" and "time-space code diversity."

SECTION 3: Test specification, procedures and results

3.1 Requirements for compliance testing defined by the FCC / Test specification

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.

- Specific Absorption Rate (SAR) is a measure of the rate of energy absorption due to exposure to an RF transmitting source (wireless portable device).
- IEEE/ANSI Std. C95.1-1992 limits are used to determine compliance with FCC ET Docket 93-62.

Supplement C (Edition 01-01) to OET Bulletin 65 (Edition 97-01):

Supplement C (Edition 01-01) - Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions

OET Bulletin 65 (Edition 97-01) - Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields

IEEE Std. 1528-2003:

IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques Supplement C

In additions; **KDB 447498 D01 (v05):** General RF exposure guidance
 KDB 865664 D01 (v01): SAR measurement 100MHz to 6GHz
 KDB 248227 D01 (v01r02): SAR measurement procedures for 802.11a/b/g transmitters

*. In this report, IEC 62209-1:2005 and IEC 62209-2:2010-03 are also considered as reference. The comment is attached to the portion to which IEC 62209-1 and IEC 62209-2 were referred to specially.

3.2 Exposure limit

Environments of exposure limit	Whole-Body (averaged over the entire body)	Partial-Body (averaged over any 1g of tissue)	Hands, Wrists, Feet and Ankles (averaged over any 10g of tissue)
(A) Limits for Occupational /Controlled Exposure (W/kg)	0.4	8.0	20.0
(B) Limits for General population /Uncontrolled Exposure (W/kg)	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.

The limit applied in this test report is;

General population / uncontrolled exposure, Partial-Body (averaged over any 1g of tissue) limit: 1.6 W/kg

3.3 Procedures and Results

	Wi-Fi / in Platform (1) (DTS; 2412-2462MHz band)	Wi-Fi / in Platform (1) (UNII; 5260-5320MHz band)	Wi-Fi / in Platform (1) (DTS; 5745-5805MHz band)
Test Procedure	FCC OET Bulletin 65, Supplement C	FCC OET Bulletin 65, Supplement C	FCC OET Bulletin 65, Supplement C
	SAR	SAR	SAR
Category	FCC 47CFR §2.1093	FCC 47CFR §2.1093	FCC 47CFR §2.1093
Results (SAR(1g))	Complied	Complied	Complied
Reported SAR value (*. Scaled)	< 0.10 W/kg	0.79 W/kg (Highest)	0.70 W/kg
Measured SAR value	0.032 W/kg	0.591 W/kg	0.492 W/kg
Operation mode	11n(40HT), MCS0, 2437 MHz (6ch)	11a, 6Mbps, 5280 MHz (56ch)	11a, 6Mbps, 5765 MHz (153ch)
Output power (scaled factor)	13.38 dBm (×1.15)	12.74 dBm (×1.34)	12.51 dBm (×1.41)

Note: UL Japan's SAR Work Procedures No.13-EM-W0429 and 13-EM-W0430. No addition, deviation nor exclusion has been made from standards

Test outline:

This EUT is a **limited module approval** according to section 15.212 (b). The procedure of SAR was measured according to the clause 5, KDB447498 D01 (v05).

Consideration of the test results:

The highest reported SAR (1g) was ≤ 0.8W/kg. EUT was approved for used in multiple host platforms. (KDB447498 D01 (v05))

3.4 Test Location

No.7 shielded room (2.76m (Width) × 3.76m (Depth) × 2.4m (Height)) for SAR testing.

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3.5 Confirmation before SAR testing

3.5.1 Average power for SAR test

It was checked that the antenna port power was correlated within the transmitter specification.

The SAR power was measured before SAR testing. The result is shown in Section 6.

*. The antenna terminal conducted output power was measured by the calibrated power sensor and power meter (65MHz measurement bandwidth).

Step.1 Data rate check

The data rate check was measurement on one of the channel for 802.11b/g/a/n(20HT)/n(40HT) at each frequency band.

11b		11g		11a		11n(20HT)			11n(40HT)		
Modulation	Data rate [Mbps]	Modulation	Data rate [Mbps]	Modulation	Data rate [Mbps]	MCS Index	Spatial Stream	Modulation	MCS Index	Spatial Stream	Modulation
DBPSK/DSSS	1	BPSK/OFDM	6	BPSK/OFDM	6	MCS0	1	BPSK/OFDM	MCS0	1	BPSK/OFDM
DQPSK/DSSS	2	BPSK/OFDM	9	BPSK/OFDM	9	MCS1	1	QPSK/OFDM	MCS1	1	QPSK/OFDM
CCK/DSSS	5.5	QPSK/OFDM	12	QPSK/OFDM	12	MCS2	1	QPSK/OFDM	MCS2	1	QPSK/OFDM
CCK/DSSS	11	QPSK/OFDM	18	QPSK/OFDM	18	MCS3	1	16QAM/OFDM	MCS3	1	16QAM/OFDM
		16QAM/OFDM	24	16QAM/OFDM	24	MCS4	1	16QAM/OFDM	MCS4	1	16QAM/OFDM
		16QAM/OFDM	36	16QAM/OFDM	36	MCS5	1	64QAM/OFDM	MCS5	1	64QAM/OFDM
		64QAM/OFDM	48	64QAM/OFDM	48	MCS6	1	64QAM/OFDM	MCS6	1	64QAM/OFDM
		64QAM/OFDM	54	64QAM/OFDM	54	MCS7	1	64QAM/OFDM	MCS7	1	64QAM/OFDM

Step.2 Decision of SAR test channel

The following operation mode, data rate and channels were determined by the SAR reference power measured. (Refer to Section 6.)

(default: KDB248227->)			default	SAR tested channel				Remarks (KDB248227)	
Mode	MHz	Channel	11b/g/n(20HT)	11b	11g	11n(20HT)	11n(40HT)		
802.11 b/g/n	2412	1	√	#(*2)	n/a(*1)	n/a(*1)		*1. Since the average power of 11g and 11n(20HT) were less than 0.25dB higher than the corresponded 11b power, SAR test was only considered to apply 11b mode. *2. Since the average power of higher data rate was less than 0.25dB higher than the lowest data rate, SAR test was only considered to apply lowest data rate.	
	2422	3					#(*2)		
	2437	6	√	#(*2)	n/a(*1)	n/a(*1)			
	2452	9							#(*2)
	2462	11	√	#(*2)	n/a(*1)	n/a(*1)			
Mode	MHz	Channel	11a/n(20HT)	11a(*4)	11n(20HT)	11n(40HT)	Remarks (KDB248227)		
802.11 a/n	5260	52	√	-	n/a(*3)		*3. Since the average power of 11n(20HT) was less than 0.25dB higher than the corresponded 11a power, SAR test was only considered to apply 11a mode. *4. Since the average power of higher data rate was less than 0.25dB higher than the lowest data rate, SAR test was only considered to apply lowest data rate.		
	5270	54						#(*4)	
	5280	56	*	#(*max power ch.)(*4)	n/a(*3)				
	5300	60	*	-	n/a(*3)				
	5310	62							#(*4)
	5320	64	√	#(*4)	n/a(*3)				
	5745	149	√	-	n/a(*3)				
	5755	151							#(*4)
	5765	153	*	#(*max power ch.)(*4)	n/a(*3)				
	5785	157	*	-	n/a(*3)				
5795	159						#(*4)		
5805	161	√	#(*4)	n/a(*3)					

*. Since target output power of all modes were same, SAR test was considered to apply to both 20MHz and 40MHz bandwidth operation.

√ = "default test channels of requested by KDB248227", n/a: SAR test was not considered. # = SAR test was considered.

* = Possible 802.11a channels with maximum average output > the "default test channels"

3.6 Confirmation after SAR testing

It was checked that the power drift [W] is within ±5% in the evaluation procedure of SAR testing. The verification of power drift during the SAR test is that DASY4 system calculates the power drift by measuring the e-filed at the same location at beginning and the end of the scan measurement for each test position.

The result is shown in APPENDIX 2.

*. DASY4 system calculation Power drift value[dB] = 20log(Ea)/(Eb) (where, Before SAR testing: Eb[V/m] / After SAR testing: Ea[V/m])

Limit of power drift[W] = ±5%

Power drift limit (X) [dB] = 10log(P_drift) = 10log(1.05/1) = 10log(1.05) - 10log(1) = 0.21dB

from E-filed relations with power.

$S = E \times H = E^2 / \eta = P / (4 \times \pi \times r^2)$ (η : Space impedance) → $P = (E^2 \times 4 \times \pi \times r^2) / \eta$

Therefore, The correlation of power and the E-filed

Power drift limit (X) dB = 10log(P_drift) = 10log(E_drift)^2 = 20log(E_drift)

From the above mentioned, the calculated power drift of DASY4 system must be the less than ±0.21dB.

3.7 Test setup of EUT and SAR measurement procedure

After considering the outline of EUT, the SAR test was carried out on the following setup conditions.

*. Refer to Appendix 1 for test setup photographs.

Setup	Explanation of EUT setup position	Antenna to user distance	Apply SAR test ?	SAR type
Top-left	The left section of top surface (near the antenna) of camcorder was touched to the Flat phantom. (LCD cover, normal closed, reverse closed, opened)	7mm	applied	Body (touch)
Top	The top surface of camcorder was touched to the Flat phantom.	15mm	applied	
Left	The left hand surface of camcorder was touched to the Flat phantom.	25mm	applied	
Right	The right section of camcorder was touched to the Flat phantom.	80mm	applied	
Rear	The rear section (finder, battery pack) of camcorder was touched to the Flat phantom.	65mm	applied	
Front	The front surface (lens) of camcorder was touched to the Flat phantom.	104mm	applied	
Bottom	The bottom surface of camcorder was touched to the Flat phantom.	68mm	applied	

*. **Size of EUT: 109 mm (width) × 182 mm (depth) × 84 mm (height)**
(*. When the LCD cover is closed in the normal position, it is a size in the state where the grip belt, the handle unit, and the lens hood are not attached.)

By the determined test setup shown above, the SAR test was applied in the following procedures.

Step 1	Changed the position, operation mode and channels. (*. LCD cover panel was opened or closed, when the observed SAR was higher value.)
Step 2	Check the influence of metal accessory at left position.
Step 3	Change the frequency band and repeated step1 and 2.

*. During SAR test, the radiated power is always monitored by Spectrum Analyzer.

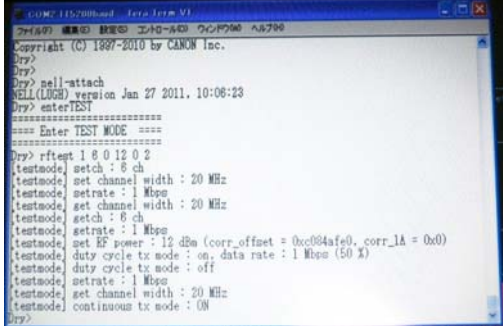
SECTION 4: Operation of EUT during SAR testing

4.1 Operation mode for SAR testing

This EUT has IEEE.802.11b/g/a/11n(20HT)/11n(40HT) continuous transmitting modes.

The frequency and the modulation used in the SAR testing are shown as a following.

Operation mode	11b	11g	11n(20HT)	11n(40HT)	11a	11n(20HT)	11n(40HT)
Tx frequency band	2412-2462MHz		2422-2452MHz		5260-5320MHz 5745-5805MHz		5270-5310MHz 5755-5795MHz
Tested frequency	2437MHz (*4)	N/A (*1)	2437MHz (*4)		5280, 5320 MHz 5765, 5805MHz	N/A (*2)	5270, 5310 MHz 5755, 5795MHz
Modulation	DBPSK/DSSS	N/A (*1)	BPSK/OFDM		BPSK/OFDM	N/A (*2)	BPSK/OFDM
Data rate	1Mbps (*3)	N/A (*1)	MCS0 (*3)		6Mbps (*3)	N/A (*2)	MCS0 (*3)
Crest factor	1.0 (100% duty cycle)	N/A (*1)	1.0 (100% duty cycle)		1.0 (100% duty cycle)	N/A (*2)	1.0 (100% duty cycle)

Controlled software	<p>Tera Term-rftest mode. Before and during (for several test condition) SAR test, the platform was connected with the host note PC via USB cable to set the operation condition.</p> 
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*. **N/A: SAR test was not applied.**

In accordance with KDB248227;

- *1. Since the average power of 11g and 11n(20HT) were less than 0.25dB higher than the corresponded 11b power, SAR test was only applied to 11b mode.
- *2. Since the average power of 11n(20HT) was less than 0.25dB higher than the corresponded 11a power, SAR test was only applied to 11a mode.
- *3. The average power of higher data rate was less than 0.25dB higher than the lowest data rate, SAR test was only applied to lowest data rate.
- *4. Since the observed SAR(1g) value was enough lower than 0.8W/kg, and extrapolated peak SAR value was also enough lower than 1.6W/kg, **the SAR test was only applied to maximum output channel of this operation mode.**

SECTION 5: Uncertainty Assessment (SAR measurement)

Uncertainty of SAR measurement(v06) (*: Body tissue, ε & σ tolerance: ≤± 5%, Tx: ≈100% duty cycle)			Under 3 GHz			5-6GHz			
Combined measurement uncertainty of the measurement system (k=1)			1g SAR		10g SAR		1g SAR		10g SAR
Expanded uncertainty (k=2)			± 12.5%		± 12.2%		± 13.7%		± 13.5%
Expanded uncertainty (k=2)			± 25.0%		± 24.4%		± 27.4%		± 27.0%
	Error Description (Under 3GHz) (v06)	Uncertainty Value	Probability distribution	Divisor	ci (1g)	ci (10g)	ui (1g) (std. uncertainty)	ui (10g) (std. uncertainty)	Vi, veff
A	Measurement System (DASY5)								
1	Probe Calibration Error	±6.0%	Normal	1	1	1	±6.0%	±6.0%	∞
2	Axial isotropy Error	±4.7%	Rectangular	√3	0.7	0.7	±1.9%	±1.9%	∞
3	Hemispherical isotropy Error (<5deg, flat phantom)	±9.6%	Rectangular	√3	0.7	0.7	±3.9%	±3.9%	∞
4	Boundary effects Error	±1.4%	Rectangular	√3	1	1	±0.8%	±0.8%	∞
5	Linearity Error	±4.7%	Rectangular	√3	1	1	±2.7%	±2.7%	∞
6	Probe modulation response (CW)	±0.0%	Rectangular	√3	1	1	±0.0%	±0.0%	∞
7	Sensitivity Error (detection limit)	±1.0%	Rectangular	√3	1	1	±0.6%	±0.6%	∞
8	Response Time Error (<5ms/100ms wait)	±0.0%	Normal	1	1	1	±0.0%	±0.0%	∞
9	Integration Time Error (100% duty cycle)	±0.0%	Rectangular	√3	1	1	±0.0%	±0.0%	∞
10	Readout Electronics Error(DAE)	±0.3%	Rectangular	√3	1	1	±0.3%	±0.3%	∞
11	RF ambient conditions-noise	±3.0%	Rectangular	√3	1	1	±1.7%	±1.7%	∞
12	RF ambient conditions-reflections	±3.0%	Rectangular	√3	1	1	±1.7%	±1.7%	∞
13	Probe positioner mechanical tolerance	±1.1%	Rectangular	√3	1	1	±0.6%	±0.6%	∞
14	Probe Positioning with respect to phantom shell	±2.9%	Rectangular	√3	1	1	±1.7%	±1.7%	∞
15	Errors: Extrapol., Interpol. & Integration Algorithms	±1.0%	Rectangular	√3	1	1	±0.6%	±0.6%	∞
B	Test Sample Related								
16	Test Sample Positioning Error	±5.0%	Normal	1	1	1	±5.0%	±5.0%	145
17	Device Holder or Positioner Tolerance	±3.6%	Normal	1	1	1	±3.6%	±3.6%	5
18	Test Sample Output Power Drift Error	±5.0%	Rectangular	√3	1	1	±2.9%	±2.9%	∞
C	Phantom and Setup								
19	Phantom uncertainty (shape, thickness tolerances)	±7.5%	Rectangular	√3	1	1	±4.3%	±4.3%	∞
20	Target Liquid Conductivity Tolerance (≤5%)	±5.0%	Rectangular	√3	0.64	0.43	±1.8%	±1.2%	∞
21	Measurement Liquid Conductivity Error	±2.9%	Normal	1	0.64	0.43	±1.9%	±1.2%	3
22	Target Liquid Permittivity Tolerance (≤5%)	±5.0%	Rectangular	√3	0.6	0.49	±1.7%	±1.4%	∞
23	Measurement Liquid Permittivity Error	±2.9%	Normal	1	0.6	0.49	±1.7%	±1.4%	3
24	Liquid Conductivity-temp.uncertainty (≤2deg.C.)	±5.2%	Rectangular	√3	0.78	0.71	±2.3%	±2.1%	∞
25	Liquid Permittivity-temp.uncertainty (≤2deg.C.)	±0.8%	Rectangular	√3	0.23	0.26	±0.1%	±0.1%	∞
	Combined Standard Uncertainty						±12.5%	±12.2%	479
	Expanded Uncertainty (k=2)						±25.0%	±24.4%	

	Error Description (5-6GHz) (v06)	Uncertainty Value	Probability distribution	Divisor	ci (1g)	ci (10g)	ui (1g) (std. uncertainty)	ui (10g) (std. uncertainty)	Vi, veff
A	Measurement System (DASY5)								
1	Probe Calibration Error	±6.55%	Normal	1	1	1	±6.55%	±6.55%	∞
2	Axial isotropy	±4.7%	Rectangular	√3	0.7	0.7	±1.9%	±1.9%	∞
3	Hemispherical isotropy (<5deg, flat phantom)	±9.6%	Rectangular	√3	0.7	0.7	±3.9%	±3.9%	∞
4	Boundary effects	±4.8%	Rectangular	√3	1	1	±2.8%	±2.8%	∞
5	Probe linearity	±4.7%	Rectangular	√3	1	1	±2.7%	±2.7%	∞
6	Probe modulation response (CW)	±0.0%	Rectangular	√3	1	1	±0.0%	±0.0%	∞
7	System detection limit	±1.0%	Rectangular	√3	1	1	±0.6%	±0.6%	∞
8	Response Time Error (<5ms/100ms wait)	±0.0%	Rectangular	√3	1	1	±0.0%	±0.0%	∞
9	Integration Time Error (100% duty cycle)	±0.0%	Rectangular	√3	1	1	±0.0%	±0.0%	∞
10	System readout electronics (DAE)	±0.3%	Normal	1	1	1	±0.3%	±0.3%	∞
11	RF ambient conditions-noise	±3.0%	Rectangular	√3	1	1	±1.7%	±1.7%	∞
12	RF ambient conditions-reflections	±3.0%	Rectangular	√3	1	1	±1.7%	±1.7%	∞
13	Probe positioner mechanical tolerance	±3.3%	Rectangular	√3	1	1	±1.9%	±1.9%	∞
14	Probe positioning with respect to phantom shell	±6.7%	Rectangular	√3	1	1	±3.9%	±3.9%	∞
15	Errors: Extrapol., Interpol. & Integration Algorithms	±4.0%	Rectangular	√3	1	1	±2.3%	±2.3%	∞
B	Test Sample Related								
16	Test Sample Positioning Error	±5.0%	Normal	1	1	1	±5.0%	±5.0%	145
17	Device Holder or Positioner Tolerance	±3.6%	Normal	1	1	1	±3.6%	±3.6%	5
18	Test Sample Output Power Drift Error	±5.0%	Rectangular	√3	1	1	±2.9%	±2.9%	∞
C	Phantom and Setup								
19	Phantom uncertainty (shape, thickness tolerances)	±7.5%	Rectangular	√3	1	1	±4.3%	±4.3%	∞
20	Target Liquid Conductivity Tolerance (≤5%)	±5.0%	Rectangular	√3	0.64	0.43	±1.8%	±1.2%	∞
21	Measurement Liquid Conductivity Error	±3.0%	Normal	1	0.64	0.43	±1.9%	±1.3%	6
22	Target Liquid Permittivity Tolerance (≤5%)	±5.0%	Rectangular	√3	0.6	0.49	±1.7%	±1.4%	∞
23	Measurement Liquid Permittivity Error	±3.0%	Normal	1	0.6	0.49	±1.8%	±1.5%	6
24	Liquid Conductivity-temp.uncertainty (≤2deg.C.)	±3.0%	Rectangular	√3	0.78	0.71	±1.4%	±1.2%	∞
25	Liquid Permittivity-temp.uncertainty (≤2deg.C.)	±0.8%	Rectangular	√3	0.23	0.26	±0.1%	±0.1%	∞
	Combined Standard Uncertainty						±13.7%	±13.5%	734
	Expanded Uncertainty (k=2)						±27.4%	±27.0%	

*. This measurement uncertainty budget is suggested by IEEE 1528, IEC 62209-2 and determined by Schmid & Partner Engineering AG (DASY5 Uncertainty Budget).

SECTION 6: Confirmation before testing

6.1 Assessment for the conducted power of EUT

6.1.1 2412-2462MHz band (802.11b/g/n(20HT)/n(40HT))

Worst data rate / worst channel determination (WLAN module serial number: 03)

Mode	Freq. [MHz]	D/R [Mbps]	Cable Loss [dB]	Att. [dB]	D/F [dB]	Average power			PAR [dB]	Power tolerance & correction				Apply SAR test? Y:yes	Remarks (*Power reference (average output power) of Radio test)
						P/M Reading [dBm]	Result			Target & tolerance [dBm]	Deviation from max. [dB]	Scaled Factor [-]	≤2 dB?		
							[dBm]	[mW]							
802.11b	2412	1	0.42	10.00	0.00	2.48	12.90	19.5	2.6	12.0±2.0	-1.10	×1.29	Y	-(*)	*Radio: 12.89 dBm
	2412	2	0.42	10.00	0.00	2.52	12.94	19.7	2.6	12.0±2.0	-1.06	×1.28	Y	-	-
	2412	5.5	0.42	10.00	0.00	2.58	13.00	20.0	1.9	12.0±2.0	-1.00	×1.26	Y	-(*)	-
	2412	11	0.42	10.00	0.00	2.52	12.94	19.7	2.5	12.0±2.0	-1.06	×1.28	Y	-	-
	2437	1	0.42	10.00	0.00	2.94	13.36	21.7	2.6	12.0±2.0	-0.64	×1.16	Y	Y (*1,*2)	Highest power CH (11b).
	2462	1	0.42	10.00	0.00	2.80	13.22	21.0	2.6	12.0±2.0	-0.78	×1.20	Y	-(*)	-
802.11g (*1)	2412	6	0.42	10.00	0.00	2.47	12.89	19.5	10.2	12.0±2.0	-1.11	×1.29	Y	-	*Radio: 12.82 dBm
	2412	9	0.42	10.00	0.00	2.52	12.94	19.7	9.4	12.0±2.0	-1.06	×1.28	Y	-	-
	2412	12	0.42	10.00	0.00	2.53	12.95	19.7	9.8	12.0±2.0	-1.05	×1.27	Y	-	-
	2412	18	0.42	10.00	0.00	2.60	13.02	20.0	9.1	12.0±2.0	-0.98	×1.25	Y	-(*)	-
	2412	24	0.42	10.00	0.00	2.47	12.89	19.5	10.3	12.0±2.0	-1.11	×1.29	Y	-	-
	2412	36	0.42	10.00	0.00	2.43	12.85	19.3	9.3	12.0±2.0	-1.15	×1.30	Y	-	-
	2412	48	0.42	10.00	0.00	2.48	12.90	19.5	9.4	12.0±2.0	-1.10	×1.29	Y	-	-
	2412	56	0.42	10.00	0.00	2.39	12.81	19.1	9.6	12.0±2.0	-1.19	×1.32	Y	-	-
	2437	6	0.42	10.00	0.00	2.99	13.41	21.9	10.1	12.0±2.0	-0.59	×1.15	Y	-(*)	Highest power CH (all).
	2462	6	0.42	10.00	0.00	2.84	13.26	21.2	10.1	12.0±2.0	-0.74	×1.19	Y	-	-
802.11n (20HT) (*1)	2412	MCS0	0.42	10.00	0.00	2.54	12.96	19.8	8.9	12.0±2.0	-1.04	×1.27	Y	-	*Radio: 12.85 dBm
	2412	MCS1	0.42	10.00	0.00	2.52	12.94	19.7	9.0	12.0±2.0	-1.06	×1.28	Y	-	-
	2412	MCS2	0.42	10.00	0.00	2.53	12.95	19.7	8.8	12.0±2.0	-1.05	×1.27	Y	-	-
	2412	MCS3	0.42	10.00	0.00	2.53	12.95	19.7	9.0	12.0±2.0	-1.05	×1.27	Y	-	-
	2412	MCS4	0.42	10.00	0.00	2.51	12.93	19.6	9.0	12.0±2.0	-1.07	×1.28	Y	-	-
	2412	MCS5	0.42	10.00	0.00	2.52	12.94	19.7	9.0	12.0±2.0	-1.06	×1.28	Y	-	-
	2412	MCS6	0.42	10.00	0.00	2.53	12.95	19.7	8.8	12.0±2.0	-1.05	×1.27	Y	-	-
	2412	MCS7	0.42	10.00	0.00	2.50	12.92	19.6	8.9	12.0±2.0	-1.08	×1.28	Y	-	-
	2437	MCS0	0.42	10.00	0.00	2.97	13.39	21.8	9.0	12.0±2.0	-0.61	×1.15	Y	-	-
	2462	MCS0	0.42	10.00	0.00	2.84	13.26	21.2	8.8	12.0±2.0	-0.74	×1.19	Y	-	-
802.11n (40HT) (*1)	2422	MCS0	0.42	10.00	0.00	2.60	13.02	20.0	9.2	12.0±2.0	-0.98	×1.25	Y	-(*)	*Radio: 12.91 dBm
	2422	MCS1	0.42	10.00	0.00	2.58	13.00	20.0	9.3	12.0±2.0	-1.00	×1.26	Y	-	-
	2422	MCS2	0.42	10.00	0.00	2.56	12.98	19.9	9.3	12.0±2.0	-1.02	×1.26	Y	-	-
	2422	MCS3	0.42	10.00	0.00	2.53	12.95	19.7	9.8	12.0±2.0	-1.05	×1.27	Y	-	-
	2422	MCS4	0.42	10.00	0.00	2.57	12.99	19.9	9.8	12.0±2.0	-1.01	×1.26	Y	-	-
	2422	MCS5	0.42	10.00	0.00	2.51	12.93	19.6	10.1	12.0±2.0	-1.07	×1.28	Y	-	-
	2422	MCS6	0.42	10.00	0.00	2.49	12.91	19.5	9.3	12.0±2.0	-1.09	×1.29	Y	-	-
	2422	MCS7	0.42	10.00	0.00	2.56	12.98	19.9	9.2	12.0±2.0	-1.02	×1.26	Y	-	-
	2437	MCS0	0.42	10.00	0.00	2.96	13.38	21.8	9.2	12.0±2.0	-0.62	×1.15	Y	Y (*1,*2)	Highest power CH (11n(40HT)).
2452	MCS0	0.42	10.00	0.00	2.90	13.32	21.5	9.2	12.0±2.0	-0.68	×1.17	Y	-(*)	-	

*. Freq.: Frequency, D/R: Data Rate, Att.: Attenuator loss, D/F: Duty Factor (0dB=100% duty cycle), Deviation from max.: Power deviation (Deviation [dB] = "Max.-specification output power (average)" - "results power (average)") Scaled Factor: Power scaled factor for obtained SAR value, Scaled Factor [-] = 1 / (10^(Deviation from max. / 10))

*. **Since measured output power of all modes were same, SAR test was applied to both 20MHz and 40MHz bandwidth operation.**

*1. (KDB248227) Since the average power of 11g and 11n(20HT) were less than 0.25dB higher than the corresponded 11b power, SAR test (for 20MHz bandwidth operation) was only applied to 11b mode. Since the average power of higher data rate was less than 0.25dB higher than the lowest data rate, SAR test was only applied to the lowest data rate.

*2. Since the observed SAR(1g) value was enough lower than 0.8W/kg, and extrapolated peak SAR value was also enough lower than 1.6W/kg, **the SAR test was only applied to maximum output channel of this operation mode.**

*. **EUT serial number: "03" for conducted power measurement (SAR test reference) and for SAR test.**

*. Calculating formula:
Results (Average power) = ["P/M Reading"]+[Cable loss]+[Attenuator]+[duty factor] / (Peak power) = ["P/M Reading"]+[Cable loss]+[Attenuator]

*. Uncertainty of antenna port conducted test; Power measurement uncertainty above 1GHz for this test was: (±) 1.5dB

*. Date measured: January 7, 2013 / Measured by: Hiroshi Naka / Place: preparation room of No. 7 shielded room. (23 deg.C. / 40 %RH)

*. The average output power of Radio test refers to test report: 4786001102S-A. (EUT serial number used: 08)

6.1.2 5260-5320MHz, W53 band (802.11a/n(20HT)/n(40HT))
Worst data rate / worst channel determination (WLAN module serial number: 03)

Mode	Freq. [MHz]	D/R [Mbps]	Cable Loss [dB]	Att. [dB]	D/F [dB]	Average power			PAR [dB]	Power tolerance & correction				Apply SAR test? Y/yes	Remarks (*: Power reference (average output power) of Radio test)
						P/M Reading [dBm]	Result			Target & tolerance [dBm]	Deviation from max. [dB]	Scaled Factor [-]	≤2 dB?		
							[dBm]	[mW]							
802.11a (*1)	5260	6	0.76	10.04	0.00	1.79	12.59	18.2	9.2	12.0±2.0	-1.41	×1.38	Y	-	(*: Radio: 12.55 dBm)
	5260	9	0.76	10.04	0.00	1.80	12.60	18.2	8.6	12.0±2.0	-1.40	×1.38	Y	-	(*: Radio: 12.47 dBm)
	5260	12	0.76	10.04	0.00	1.77	12.57	18.1	9.0	12.0±2.0	-1.43	×1.39	Y	-	(*: Radio: 12.41 dBm)
	5260	18	0.76	10.04	0.00	1.86	12.66	18.5	8.4	12.0±2.0	-1.34	×1.36	Y	-(*)	(*: Radio: 12.46 dBm)
	5260	24	0.76	10.04	0.00	1.80	12.60	18.2	9.2	12.0±2.0	-1.40	×1.38	Y	-	(*: Radio: 12.52 dBm)
	5260	36	0.76	10.04	0.00	1.71	12.51	17.8	9.1	12.0±2.0	-1.49	×1.41	Y	-	(*: Radio: 12.42 dBm)
	5260	48	0.76	10.04	0.00	1.76	12.56	18.0	8.7	12.0±2.0	-1.44	×1.39	Y	-	(*: Radio: 12.53 dBm)
	5260	56	0.76	10.04	0.00	1.72	12.52	17.9	9.0	12.0±2.0	-1.48	×1.41	Y	-	(*: Radio: 12.41 dBm)
	5280	6	0.76	10.04	0.00	1.94	12.74	18.8	9.0	12.0±2.0	-1.26	×1.34	Y	Y(*)	Highest power CH (all). (*1) *: Radio: 12.56 dBm)
	5300	6	0.76	10.04	0.00	1.55	12.35	17.2	9.2	12.0±2.0	-1.65	×1.46	Y	-	-
5320	6	0.76	10.04	0.00	1.65	12.45	17.6	9.1	12.0±2.0	-1.55	×1.43	Y	Y(*)	(*: Radio: 12.36 dBm)	
802.11n (20HT) (*1)	5260	MCS0	0.76	10.04	0.00	1.82	12.62	18.3	8.4	12.0±2.0	-1.38	×1.37	Y	-	(*: Radio: 12.52 dBm)
	5260	MCS1	0.76	10.04	0.00	1.79	12.59	18.2	8.4	12.0±2.0	-1.41	×1.38	Y	-	(*: Radio: 12.42 dBm)
	5260	MCS2	0.76	10.04	0.00	1.82	12.62	18.3	8.4	12.0±2.0	-1.38	×1.37	Y	-	(*: Radio: 12.42 dBm)
	5260	MCS3	0.76	10.04	0.00	1.82	12.62	18.3	8.4	12.0±2.0	-1.38	×1.37	Y	-	(*: Radio: 12.46 dBm)
	5260	MCS4	0.76	10.04	0.00	1.83	12.63	18.3	8.4	12.0±2.0	-1.37	×1.37	Y	-	(*: Radio: 12.51 dBm)
	5260	MCS5	0.76	10.04	0.00	1.85	12.65	18.4	8.5	12.0±2.0	-1.35	×1.36	Y	-(*)	(*: Radio: 12.51 dBm)
	5260	MCS6	0.76	10.04	0.00	1.83	12.63	18.3	8.4	12.0±2.0	-1.37	×1.37	Y	-	(*: Radio: 12.46 dBm)
	5260	MCS7	0.76	10.04	0.00	1.79	12.59	18.2	8.4	12.0±2.0	-1.41	×1.38	Y	-	(*: Radio: 12.45 dBm)
	5280	MCS0	0.76	10.04	0.00	1.92	12.72	18.7	8.4	12.0±2.0	-1.28	×1.34	Y	-(*)	Highest power CH (11n(20HT)). *: Radio: 12.55 dBm)
	5300	MCS0	0.76	10.04	0.00	1.55	12.35	17.2	8.5	12.0±2.0	-1.65	×1.46	Y	-	-
5320	MCS0	0.76	10.04	0.00	1.65	12.45	17.6	8.5	12.0±2.0	-1.55	×1.43	Y	-	(*: Radio: 12.37 dBm)	
802.11n (40HT) (*1)	5270	MCS0	0.76	10.04	0.00	1.94	12.74	18.8	8.3	12.0±2.0	-1.26	×1.34	Y	Y(*)	(*1)(* Radio: 12.54 dBm) Highest power CH (11n(40HT)).
	5270	MCS1	0.76	10.04	0.00	1.96	12.76	18.9	8.1	12.0±2.0	-1.24	×1.33	Y	-(*)	(*: Radio: 12.56 dBm)
	5270	MCS2	0.76	10.04	0.00	1.92	12.72	18.7	8.6	12.0±2.0	-1.28	×1.34	Y	-	(*: Radio: 12.53 dBm)
	5270	MCS3	0.76	10.04	0.00	1.83	12.63	18.3	8.9	12.0±2.0	-1.37	×1.37	Y	-	(*: Radio: 12.44 dBm)
	5270	MCS4	0.76	10.04	0.00	1.89	12.69	18.6	8.9	12.0±2.0	-1.31	×1.35	Y	-	(*: Radio: 12.58 dBm)
	5270	MCS5	0.76	10.04	0.00	1.85	12.65	18.4	8.8	12.0±2.0	-1.35	×1.36	Y	-	(*: Radio: 12.46 dBm)
	5270	MCS6	0.76	10.04	0.00	1.89	12.69	18.6	8.8	12.0±2.0	-1.31	×1.35	Y	-	(*: Radio: 12.51 dBm)
	5270	MCS7	0.76	10.04	0.00	1.87	12.67	18.5	8.5	12.0±2.0	-1.33	×1.36	Y	-	(*: Radio: 12.46 dBm)
5310	MCS0	0.76	10.04	0.00	1.65	12.45	17.6	8.6	12.0±2.0	-1.55	×1.43	Y	Y(*)	(*: Radio: 12.39 dBm)	

*. Freq.: Frequency, D/R: Data Rate, Att.: Attenuator loss, D/F: Duty Factor (0dB=100% duty cycle), Deviation from max.: Power deviation (Deviation [dB] = "Max.-specification output power (average)" - "results power (average)") Scaled Factor: Power scaled factor for obtained SAR value, Scaled Factor [-] = 1 / (10 ^ ("Deviation from max." / 10))

*. **Since measured output power of all modes were same, SAR test was applied to both 20MHz and 40MHz bandwidth operation.**

*1. (KDB248227) Since the average power of 11n(20HT) was less than 0.25dB higher than the corresponded 11b power, SAR test (for 20MHz bandwidth operation) was only applied to 11a mode. Since the average power of higher data rate was less than 0.25dB higher than the lowest data rate, SAR test was only applied to the lowest data rate.

*. **EUT serial number: "03" for conducted power measurement (SAR test reference) and for SAR test.**

*. Calculating formula:

Results (Average power) = ["P/M Reading"]+[Cable loss]+[Attenuator]+[duty factor] / (Peak power) = ["P/M Reading"]+[Cable loss]+[Attenuator]

*. Uncertainty of antenna port conducted test; Power measurement uncertainty above 1GHz for this test was: (±) 1.5dB

*. Date measured: January 7, 2013 / Measured by: Hiroshi Naka / Place: preparation room of No. 7 shielded room. (23 deg.C. / 40 %RH)

*. The average output power of Radio test refers to test report: 4786001102S-B. (EUT serial number used: 08)

6.1.3 5745-5805 MHz, W58 band (802.11a/n(20HT)/n(40HT))
Worst data rate / worst channel determination (WLAN module serial number: 03)

Mode	Freq. [MHz]	D/R [Mbps]	Cable Loss [dB]	Att. [dB]	D/F [dB]	Average power			PAR [dB]	Power tolerance & correction				Apply SAR test? Y/yes	Remarks (*: Power reference (average output power) of Radio test)
						P/M Reading [dBm]	Result			Target & tolerance [dBm]	Deviation from max. [dB]	Scaled Factor [-]	≤2 dB?		
							[dBm]	[mW]							
802.11a (*1)	5745	6	0.85	10.05	0.00	1.35	12.25	16.8	8.1	12.0±2.0	-1.75	1.50	Y	-	(*: Radio: 12.23 dBm)
	5745	9	0.85	10.05	0.00	1.34	12.24	16.7	8.0	12.0±2.0	-1.76	1.50	Y	-	(*: Radio: 12.13 dBm)
	5745	12	0.85	10.05	0.00	1.33	12.23	16.7	8.2	12.0±2.0	-1.77	1.50	Y	-	(*: Radio: 12.18 dBm)
	5745	18	0.85	10.05	0.00	1.37	12.27	16.9	8.2	12.0±2.0	-1.73	1.49	Y	-(*)	(*: Radio: 12.24 dBm)
	5745	24	0.85	10.05	0.00	1.35	12.25	16.8	8.1	12.0±2.0	-1.75	1.50	Y	-	(*: Radio: 12.18 dBm)
	5745	36	0.85	10.05	0.00	1.28	12.18	16.5	8.2	12.0±2.0	-1.82	1.52	Y	-	(*: Radio: 12.05 dBm)
	5745	48	0.85	10.05	0.00	1.34	12.24	16.7	8.2	12.0±2.0	-1.76	1.50	Y	-	(*: Radio: 12.05 dBm)
	5745	56	0.85	10.05	0.00	1.34	12.24	16.7	8.2	12.0±2.0	-1.76	1.50	Y	-	(*: Radio: 12.04 dBm)
	5765	6	0.85	10.05	0.00	1.61	12.51	17.8	8.1	12.0±2.0	-1.49	1.41	Y	Y(*)	Highest power CH (all). (*1)
	5785	6	0.85	10.05	0.00	1.38	12.28	16.9	8.2	12.0±2.0	-1.72	1.49	Y	-	-
5805	6	0.85	10.05	0.00	1.19	12.09	16.2	8.3	12.0±2.0	-1.91	1.55	Y	Y(*)	-	
802.11n (20HT) (*1)	5745	MCS0	0.85	10.05	0.00	1.36	12.26	16.8	8.9	12.0±2.0	-1.74	1.49	Y	-	(*: Radio: 12.11 dBm)
	5745	MCS1	0.85	10.05	0.00	1.30	12.20	16.6	8.4	12.0±2.0	-1.80	1.51	Y	-	(*: Radio: 12.08 dBm)
	5745	MCS2	0.85	10.05	0.00	1.29	12.19	16.6	8.7	12.0±2.0	-1.81	1.52	Y	-	(*: Radio: 12.13 dBm)
	5745	MCS3	0.85	10.05	0.00	1.40	12.30	17.0	8.2	12.0±2.0	-1.70	1.48	Y	-(*)	(*: Radio: 12.09 dBm)
	5745	MCS4	0.85	10.05	0.00	1.30	12.20	16.6	8.9	12.0±2.0	-1.80	1.51	Y	-	(*: Radio: 12.10 dBm)
	5745	MCS5	0.85	10.05	0.00	1.26	12.16	16.4	8.8	12.0±2.0	-1.84	1.53	Y	-	(*: Radio: 12.08 dBm)
	5745	MCS6	0.85	10.05	0.00	1.27	12.17	16.5	8.5	12.0±2.0	-1.83	1.52	Y	-	(*: Radio: 12.04 dBm)
	5745	MCS7	0.85	10.05	0.00	1.26	12.16	16.4	8.8	12.0±2.0	-1.84	1.53	Y	-	(*: Radio: 12.10 dBm)
	5765	MCS0	0.85	10.05	0.00	1.61	12.51	17.8	8.7	12.0±2.0	-1.49	1.41	Y	-(*)	Highest power CH (11n(20HT))
	5785	MCS0	0.85	10.05	0.00	1.33	12.23	16.7	8.9	12.0±2.0	-1.77	1.50	Y	-	-
5805	MCS0	0.85	10.05	0.00	1.22	12.12	16.3	8.9	12.0±2.0	-1.88	1.54	Y	-	-	
802.11n (40HT) (*1)	5755	MCS0	0.85	10.05	0.00	1.32	12.22	16.7	8.3	12.0±2.0	-1.78	1.51	Y	Y(*)	(*1)(*: Radio: 12.13 dBm)
	5755	MCS1	0.85	10.05	0.00	1.31	12.21	16.6	8.3	12.0±2.0	-1.79	1.51	Y	-	(*: Radio: 12.12 dBm)
	5755	MCS2	0.85	10.05	0.00	1.36	12.26	16.8	8.4	12.0±2.0	-1.74	1.49	Y	-(*)	Highest power CH (11n(40HT)). (*: Radio: 12.08 dBm)
	5755	MCS3	0.85	10.05	0.00	1.30	12.20	16.6	8.9	12.0±2.0	-1.80	1.51	Y	-	(*: Radio: 12.02 dBm)
	5755	MCS4	0.85	10.05	0.00	1.27	12.17	16.5	8.8	12.0±2.0	-1.83	1.52	Y	-	(*: Radio: 12.06 dBm)
	5755	MCS5	0.85	10.05	0.00	1.20	12.10	16.2	8.7	12.0±2.0	-1.90	1.55	Y	-	(*: Radio: 12.05 dBm)
	5755	MCS6	0.85	10.05	0.00	1.33	12.23	16.7	8.4	12.0±2.0	-1.77	1.50	Y	-	(*: Radio: 12.08 dBm)
	5755	MCS7	0.85	10.05	0.00	1.33	12.23	16.7	8.3	12.0±2.0	-1.77	1.50	Y	-	(*: Radio: 12.07 dBm)
	5795	MCS0	0.85	10.05	0.00	1.32	12.22	16.7	8.3	12.0±2.0	-1.78	1.51	Y	Y(*)	-

*. Freq.: Frequency, D/R: Data Rate, Att.: Attenuator loss, D/F: Duty Factor (0dB=100% duty cycle), Deviation from max.: Power deviation (Deviation [dB] = "Max.-specification output power (average)" - "results power (average)") Scaled Factor: Power scaled factor for obtained SAR value, Scaled Factor [-] = 1 / (10 ^ ("Deviation from max." / 10))

*. **Since measured output power of all modes were same, SAR test was applied to both 20MHz and 40MHz bandwidth operation.**

*1. (KDB248227) Since the average power of 11n(20HT) was less than 0.25dB higher than the corresponded 11b power, SAR test (for 20MHz bandwidth operation) was only applied to 11a mode. Since the average power of higher data rate was less than 0.25dB higher than the lowest data rate, SAR test was only applied to the lowest data rate.

*. **EUT serial number: "03" for conducted power measurement (SAR test reference) and for SAR test.**

*. Calculating formula:
Results (Average power) = ["P/M Reading"]+[Cable loss]+[Attenuator]+[duty factor] / (Peak power) = ["P/M Reading"]+[Cable loss]+[Attenuator]

*. Uncertainty of antenna port conducted test; Power measurement uncertainty above 1GHz for this test was: (±) 1.5dB

*. Date measured: January 7, 2013 / Measured by: Hiroshi Naka / Place: preparation room of No. 7 shielded room. (23 deg.C. / 40 %RH)

*. The average output power of Radio test refers to test report: 4786001102S-A. (EUT serial number used: 08)

SECTION 7: Measurement results

7.1 SAR test results - platform (1): Digital video camcorder (1) (model: ID0025)

7.1.1 2412-2462MHz band

Measurement date: January 23, 2013

Measurement by: Hiroshi Naka

[Liquid measurement (Body simulated tissue)]

Target Frequency [MHz]	Liquid parameters					ASAR Coefficients (*1)		Remarks / Environment	
	Permittivity (εr) [-]		Conductivity [S/m]		Temp. [deg.C.]	Depth [mm]	ASAR (1g) [%]		Correction required?
	Target	Measured (Δεr)	Target	Measured (Δσ)					
2450	52.7	50.63 (-3.9%)	1.95	2.020 (+3.6%)	22.0	156	(+2.61) (*1)	not required.	January 23, 2013, before SAR test / ambient; 23.8 deg.C., 40%RH
2437	52.72	50.61 (-4.0%)	1.938	1.993 (+2.9%)			(+2.29) (*1)	not required.	

*. The target value is a parameter defined in OET65 Supplement C. In the current standards (e.g., IEEE 1528, OET 65 Supplement C), the dielectric parameters suggested for head and body tissue simulating liquid are given at 2450MHz. As an intermediate solution, dielectric parameters for the frequencies between 2000 to 2450 MHz were obtained using linear interpolation. (Refer to Appendix 3-4)

*1. The number of ASAR(1g) of body simulated tissue was reference purpose only. ΔSAR correction was only applied to head simulated tissue. The coefficients are parameters defined in Annex F, IEC 62209-2:2010. In accordance with clause 6.1.1 of EN 62209-2; "If the correction ΔSAR has a negative sign, the measured SAR results shall not be corrected", the calculated ΔSAR values of the tested liquid had shown negative correction. Therefore the measured SAR was not ASAR corrected.

$$ASAR(1g) = C_{\epsilon r} \times \Delta \epsilon r + C_{\sigma} \times \Delta \sigma, C_{\epsilon r} = -7.854E-4 \times f^3 + 9.402E-3 \times f^2 - 2.742E-2 \times f + 0.2026 / C_{\sigma} = 9.804E-3 \times f^3 - 8.661E-2 \times f^2 + 2.981E-2 \times f + 0.7829$$

[ISAR measurement results (Partial-Body)]

Mode	[MHz] (CH)	Modulation /Data rate / Crest factor	SAR measurement results						Reported		Remarks					
			EUT setup conditions			Liquid temp. [deg.C.]		SAR (1g) [W/kg]				Data# in Appendix 2-2	SAR (1g) [W/kg]			
			Position	LCD (*1)	Gap [mm]	Battery ID	Before	After	Power drift [dB]	maximum value of multi-peak			Observed	ASAR [%]	ASAR corrected	Scaled factor
Step 1a: Change the position, operation mode and channels																
11b	2437 (6)	DSSS /1Mbps /1.0	Top-left	Close (R)	0	43	21.5	21.6	0.17	0.031	-	-	Step 1a-1	×1.16	0.036	-
				Close (N)	0	44	21.6	21.7	-0.20	0.032	-	-	Step 1a-2	×1.16	0.037	>Highest (2.4GHz)
				Open	0	48	21.7	21.8	0.20	0.031	-	-	Step 1a-3	×1.16	0.036	-
			Top	Close (R)	0	49	21.8	21.9	0.20	0.025	-	-	Step 1a-4	×1.16	0.029	-
11n (40HT)	2437 (6)	OFDM /MCS0 /1.0	Top-left	Close (N)	0	50	21.8	21.8	0.07	0.032	-	-	Step 1a-5	×1.15	0.037	>Highest (2.4GHz)
11b	2437 (6)	DSSS /1Mbps /1.0	Rear	Close (R)	0	43	22.0	22.0	*. Zoom scan was not proceeded. Since the maximum SAR value of an area scan result was small enough or not detected, a zoom scan was excluded.	-	-	-	-	×1.16	-	-
			Front	Close (R)	0	43	22.0	22.0		-	-	-	-	×1.16	-	-
			Bottom	Close (R)	0	44	22.0	22.0		-	-	-	-	×1.16	-	-
			Right	Close (R)	0	44	22.0	22.1		-	-	-	-	×1.16	-	-
			Left	Open	0	48	22.1	22.1		-	-	-	-	×1.16	-	-
Step 2a: Check the influence of metal accessory at left position																
11b	2437 (6)	DSSS /1Mbps /1.0	Left with handle unit	Open	0	48	22.1	22.2	0.07	0.032	-	-	-	×1.16	-	-

Notes:

- *1. Refer to Appendix 1 for LCD open/close position. "Open": LCD open, "Close(N)": LCD normal close, "Close(R)": LCD reverse close.
- *. Gap: Separation distance between the nearest position of EUT outer surface and the bottom outer surface of phantom.
- *. Refer to Appendix 1 for battery type. Battery ID number of 43, 44, 48, 49 and 50 were all same models.
- *. **Since measured output power of all modes were same, SAR test was applied to both 20MHz and 40MHz bandwidth operation.**
- *. (KDB248227) Since the average power of 11g and 11n(20HT) were less than 0.25dB higher than the corresponded 11b power, SAR test (for 20MHz bandwidth operation) was only applied to 11b mode. Since the average power of higher data rate was less than 0.25dB higher than the lowest data rate, SAR test was only applied to the lowest data rate.
- *. Since the observed SAR(1g) value was enough lower than 0.8W/kg, and extrapolated peak SAR value was also enough lower than 1.6W/kg, **the SAR test was only applied to maximum output channel of this operation mode.**
- *. During test, the EUT was operated without all signal interface cables and with a full-charged battery.
- *. Calibration frequency of the SAR measurement probe (and used conversion factors)

SAR test frequency [MHz]	Probe calibration frequency [MHz]	Validity [MHz]	Used conversion factor	Uncertainty
2437	2450	-13MHz, within ±50 of cal.frequency	6.77	±12.0%

*. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

7.1.2 5260-5320MHz, W53 band

Measurement date: January 25, 28 and 29, 2013 Measurement by: Hiroshi Naka

[Liquid measurement (Body simulated tissue)]

Target Frequency [MHz]	Liquid parameters					ASAR Coefficients (*1)		Remarks / Environment	
	Permittivity (εr) [-]		Conductivity [S/m]		Temp. [deg.C.]	Depth [mm]	ASAR (1g) [%]		Correction required?
	Target	Measured (Δεr)	Target	Measured (Δσ)					
5200	49.01	47.07 (-4.0%)	5.299	5.391 (+1.7%)	24.3	130	(+0.75) (*1)	not required.	January 25, 2013, before SAR test (ambient; 24.9 deg.C., 37%RH)
5280	48.91	47.06 (-3.8%)	5.393	5.563 (+3.2%)			(+0.66) (*1)	not required.	
5320	48.85	46.90 (-4.0%)	5.439	5.540 (+1.9%)			(+0.74) (*1)	not required.	
5200	49.01	47.29 (-3.5%)	5.299	5.315 (+0.3%)	24.5	132	(+0.70) (*1)	not required.	January 28, 2013, before SAR test (ambient; 24.5 deg.C., 32%RH)
5270	48.92	47.22 (-3.5%)	5.381	5.442 (+1.1%)			(+0.69) (*1)	not required.	
5280	48.91	46.99 (-3.9%)	5.393	5.442 (+0.9%)			(+0.66) (*1)	not required.	
5310	48.87	46.96 (-3.9%)	5.428	5.522 (+1.9%)			(+0.76) (*1)	not required.	
5200	49.01	47.60 (-2.9%)	5.299	5.432 (+2.5%)	24.5	131	(+0.52) (*1)	not required.	January 29, 2013, before SAR test (ambient; 24.4 deg.C., 34%RH)
5280	48.91	47.19 (-3.5%)	5.393	5.504 (+2.1%)			(+0.58) (*1)	not required.	

*. The target value is a parameter defined in OET65 Supplement C. In the current standards (e.g., IEEE 1528, OET 65 Supplement C), the dielectric parameters suggested for head and body tissue simulating liquid are given at 3000MHz and 5800MHz. As an intermediate solution, dielectric parameters for the frequencies between 3000 to 5800 MHz were obtained using linear interpolation. (Refer to Appendix 3-4 in this report)

*1. The number of ASAR(1g) of body simulated tissue was reference purpose only. ΔSAR correction was only applied to head simulated tissue. The coefficients are parameters defined in Annex F, IEC 62209-2:2010. In accordance with clause 6.1.1 of EN 62209-2; "If the correction ΔSAR has a negative sign, the measured SAR results shall not be corrected", the calculated ΔSAR values of the tested liquid had shown negative correction. Therefore the measured SAR was not ΔSAR corrected.

$$ASAR(1g) = C_{\epsilon r} \times \Delta \epsilon r + C_{\sigma} \times \Delta \sigma, C_{\epsilon r} = 7.854E-4 \times \beta^3 + 9.402E-3 \times \beta^2 - 2.742E-2 \times \beta + 0.2026 / C_{\sigma} = 9.804E-3 \times \beta^3 - 8.661E-2 \times \beta^2 + 2.981E-2 \times \beta + 0.7829$$

[SAR measurement results (Partial-Body)]

SAR measurement results													Reported		Remarks	
Mode	[MHz] (CH)	Modulation /Data rate / Crest factor	EUT setup conditions				Liquid temp. [deg.C.]		Power drift [dB]	SAR(1g) [W/kg]			Data# in Appendix 2-2	Power scaled SAR(1g) [W/kg]		
			Position	LCD (*1)	Gap [mm]	Battery ID	Before	After		maximum value of multi-peak				Scaled factor		Scaled SAR(1g)
										Observed	ASAR [%]	ASAR corrected				
Step 1b: Change the position, operation mode and channels																
11a	5280(56)	OFDM /6Mbps /1.0	Top-left	Close (N)	0	43	23.1	23.2	-0.16	0.532	-	-	Step 1b-1	×1.34	0.71	-
				Close (R)	0	44	23.2	23.2	-0.01	0.575	-	-	Step 1b-2	×1.34	0.77	-
				Open	0	48	23.3	23.3	-0.06	0.591	-	-	Step 1b-3	×1.34	0.79	>Highest (W53)
	Top			Open	0	49	23.3	23.3	0.05	0.519	-	-	Step 1b-4	×1.43	0.74	-
				Close (R)	0	50	23.3	23.4	-0.13	0.552	-	-	Step 1b-5	×1.34	0.74	-
				Open	0	43	23.6	23.6	-0.20	0.072	-	-	Step 1b-6	×1.34	0.10	-
	Bottom		Open	0	44	23.4	23.5	* Zoom scan was not proceeded. Since the maximum SAR value of an area scan result was small enough or not detected, a zoom scan was excluded.			-	-	×1.34	-	-	
			Rear	Open	0	44	23.5	23.5	-	-	-	×1.34	-	-	-	
			Right	Close (R)	0	48	23.6	23.6	-	-	-	×1.34	-	-	-	
	Front		Open	0	48	23.6	23.6	-	-	-	-	×1.34	-	-	-	
Open		0	49	23.7	23.6	-0.20	0.545	-	-	Step 1b-7	×1.34	0.73	>Higher 11n(40HT)			
11n (40HT)	5310 (62)	OFDM /MCS0 /1.0	Top-left	Open	0	50	23.6	23.6	-0.11	0.525	-	-	Step 1b-8	×1.43	0.75	-
Step 2b: Check the influence of metal accessory at left position																
11a	5280(56)	OFDM /6Mbps /1.0	Left with handle unit	Open	0	43	23.6	23.6	-0.20	0.081	-	-	Step 2b-1	×1.34	0.11	-

Notes:

*1. Refer to Appendix 1 for LCD open/close position. "Open": LCD open, "Close(N)": LCD normal close, "Close(R)": LCD reverse close.

*. Gap: Separation distance between the nearest position of EUT outer surface and the bottom outer surface of phantom.

*. Refer to Appendix 1 for battery type. Battery ID number of 43, 44, 48, 49 and 50 were all same models.

*. **Since measured output power of all modes were same, SAR test was applied to both 20MHz and 40MHz bandwidth operation.**

*. (KDB248227) Since the average power of 11n(20HT) was less than 0.25dB higher than the corresponded 11a power, SAR test (for 20MHz bandwidth operation) was only applied to 11a mode. Since the average power of higher data rate was less than 0.25dB higher than the lowest data rate, SAR test was only applied to the lowest data rate.

*. During test, the EUT was operated without all signal interface cables and with a full-charged battery.

*. Calibration frequency of the SAR measurement probe (and used conversion factors)

SAR test frequency [MHz]	Probe calibration frequency [MHz]	Validity [MHz]	Used conversion factor	Uncertainty
5270	5300	-30 MHz, within ±50 MHz of cal.frequency	3.98	±13.1%
5280	5300	-20 MHz, within ±50 MHz of cal.frequency	3.98	±13.1%
5310	5300	+10 MHz, within ±50 MHz of cal.frequency	3.98	±13.1%
5320	5300	+20 MHz, within ±50 MHz of cal.frequency	3.98	±13.1%

*. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

7.1.3 5745-5805MHz, W58 band

Measurement date: January 28 and 29, 2013

Measurement by: Hiroshi Naka

[Liquid measurement (Body simulated tissue)]

Target Frequency [MHz]	Liquid parameters					ASAR Coefficients (*1)		Remarks / Environment	
	Permittivity (εr) [-]		Conductivity [S/m]		Temp. [deg.C.]	Depth [mm]	ASAR (I _g) [%]		Correction required?
	Target	Measured (Δεr)	Target	Measured (Δσ)					
5800	48.2	46.17 (-4.2%)	6.00	6.198 (+3.3%)	24.5	132	(+0.69) (*1)	not required.	January 28, 2013, before SAR test (ambient; 24.5 deg.C., 32%RH)
5755	48.26	46.35 (-4.0%)	5.947	6.101 (+2.6%)			(+0.67) (*1)	not required.	
5765	48.25	46.30 (-4.0%)	5.959	6.126 (+2.8%)			(+0.68) (*1)	not required.	
5785	48.22	46.18 (-4.2%)	5.982	6.110 (+2.1%)			(+0.74) (*1)	not required.	
5795	48.21	46.15 (-4.3%)	5.994	6.158 (+2.7%)			(+0.72) (*1)	not required.	
5805	48.19	46.21 (-4.1%)	6.006	6.198 (+3.2%)			(+0.68) (*1)	not required.	
5800	48.2	46.44 (-3.7%)	6.00	6.190 (+3.2%)	24.5	131	(+0.58) (*1)	not required.	January 29, 2013, before SAR test (ambient; 24.4 deg.C., 34%RH)
5765	48.25	46.59 (-3.4%)	5.959	6.163 (+3.4%)			(+0.53) (*1)	not required.	

- *. The target value is a parameter defined in OET65 Supplement C. In the current standards (e.g., IEEE 1528, OET 65 Supplement C), the dielectric parameters suggested for head and body tissue simulating liquid are given at 3000MHz and 5800MHz. As an intermediate solution, dielectric parameters for the frequencies between 3000 to 5800 MHz were obtained using linear interpolation. Furthermore, dielectric parameters for the frequencies above 5800MHz were obtained using linear extrapolation. (Refer to Appendix 3-4 in this report)
- *1. The number of ASAR(I_g) of body simulated tissue was reference purpose only. ASAR correction was only applied to head simulated tissue. The coefficients are parameters defined in Annex F, IEC 62209-2:2010. In accordance with clause 6.1.1 of EN 62209-2; "If the correction ΔSAR has a negative sign, the measured SAR results shall not be corrected", the calculated ΔSAR values of the tested liquid had shown negative correction. Therefore the measured SAR was not ΔSAR corrected.

$$ASAR(I_g) = C_{\epsilon r} \times \Delta \epsilon r + C_{\sigma} \times \Delta \sigma, C_{\epsilon r} = -7.854E-4 \times f^3 + 9.402E-3 \times f^2 - 2.742E-2 \times f + 0.2026 / C_{\sigma} = 9.804E-3 \times f^3 - 8.661E-2 \times f^2 + 2.981E-2 \times f + 0.7829$$

[SAR measurement results (Partial-Body)] [R0]

SAR measurement results													Reported		Remarks	
Mode	[MHz] (CH)	Modulation /Data rate /Crest factor	EUT setup conditions				Liquid temp. [deg.C.]		Power drift [dB]	SAR(I _g) [W/kg]			Data# in Appendix 2-2	Power scaled SAR(I _g) [W/kg]		
			Position	LCD (*1)	Gap [mm]	Battery ID	Before	After		maximum value of multi-peak				Scaled factor		Scaled SAR(I _g)
										Observed	ASAR [%]	ASAR corrected				
Step 1c: Change the position, operation mode and channels																
11a	5765(153)	OFDM /6Mbps /1.0	Top-left	Open	0	45	23.6	23.6	-0.11	0.492	-	-	Step 1c-1	×1.41	0.70	>Highest (W58)
				Close (R)	0	48	23.6	23.5	-0.18	0.487	-	-	Step 1c-2	×1.41	0.69	-
				Close (N)	0	49	23.5	23.5	-0.20	0.491	-	-	Step 1c-3	×1.41	0.69	-
	5765(153)		Open	0	50	23.5	23.4	-0.20	0.416	-	-	Step 1c-4	×1.55	0.65	-	
			Top	Close (R)	0	49	23.6	23.6	-0.20	0.402	-	-	Step 1c-5	×1.41	0.57	-
			Left	Open	0	44	23.6	23.6	-0.05	0.076	-	-	Step 1c-6	×1.41	0.11	-
			Bottom	Open	0	48	23.6	23.6	* Zoom scan was not proceeded. Since the maximum SAR value of an area scan result was small enough or not detected, a zoom scan was excluded.			-	×1.41	-	-	
			Rear	Open	0	48	23.6	23.6	-	×1.41	-	-				
Right	Close (R)	0	49	23.6	23.6	-	×1.41	-	-							
Front	Open	0	50	23.6	23.6	-	×1.41	-	-							
11n (40HT)	5755 (151)	OFDM /MCS0 /1.0	Top-left	Open	0	48	23.4	23.4	-0.12	0.432	-	-	Step 1c-7	×1.51	0.65	>Higher 11n(40HT)
	5795 (159)			Open	0	49	23.4	23.5	-0.11	0.426	-	-	Step 1c-8	×1.51	0.64	-
Step 2c: Check the influence of metal accessory at left position																
11a	5765(153)	OFDM /6Mbps /1.0	Left with handle unit	Open	0	48	23.6	23.6	-0.14	0.157	-	-	Step 2c-1	×1.41	0.22	-

Notes:

- *1. Refer to Appendix 1 for LCD open/close position. "Open": LCD open, "Close(N)": LCD normal close, "Close(R)": LCD reverse close.
- *. Gap: Separation distance between the nearest position of EUT outer surface and the bottom outer surface of phantom.
- *. Refer to Appendix 1 for battery type. Battery ID number of 43, 44, 48, 49 and 50 were all same models.
- *. **Since measured output power of all modes were same, SAR test was applied to both 20MHz and 40MHz bandwidth operation.**
- *. (KDB248227) Since the average power of 11n(20HT) was less than 0.25dB higher than the corresponded 11a power, SAR test (for 20MHz bandwidth operation) was only applied to 11a mode. Since the average power of higher data rate was less than 0.25dB higher than the lowest data rate, SAR test was only applied to the lowest data rate.
- *. During test, the EUT was operated without all signal interface cables and with a full-charged battery.
- *. Calibration frequency of the SAR measurement probe (and used conversion factors)

SAR test frequency [MHz]	Probe calibration frequency [MHz]	Validity [MHz]	Used conversion factor	Uncertainty
5755	5800	-45 MHz, within ±50 MHz of cal.frequency	3.87	±13.1%
5765	5800	-35 MHz, within ±50 MHz of cal.frequency	3.87	±13.1%
5795	5800	-5 MHz, within ±50 MHz of cal.frequency	3.87	±13.1%
5805	5800	+5 MHz, within ±50 MHz of cal.frequency	3.87	±13.1%

*. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.