

# **EMC** TEST REPORT

Report No.	: TS08120011-EME
Model No.	: SDW3100
<b>Issued Date</b>	: Mar. 13, 2009

Applicant:	AboCom System,Inc 77, Yu-Yih Rd., Chu-Nan Chen, Miao-Lih Hsuan, Taiwan
Test Method/ Standard:	FCC Part 15 Subpart E Section §15.207 \ §15.209 \ §15.407 and ANSI C63.4/2003.
Test By:	Intertek Testing Services Taiwan Ltd. No. 11, Lane 275, Ko-Nan 1 Street, Chia-Tung Li, Shiang-Shan District, Hsinchu City, Taiwan

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The test report was prepared by:	Sign on File Sammi Liu/ Assistant
These measurements were taken by:	Sign on File Jacky Chen/ Engineer
The test report was reviewed by:	
	Name Kevin Chen Title Chief Engineer



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**Summary of Tests** 

# 802.11a/b/g wireless SD card FCC ID: MQ4SDW3100

Test	Reference	Results
Peak output power test	15.407 (a)(1)/(2)/(3) DA 02-2138	Pass
Power Spectrum Density test	15.407 (a)(1)/(2)/(3) DA 02-2138	Pass
Peak excursion to average ratio test	15.407(a)(6) DA 02-2138	Pass
Radiated spurious emission test	15.407(b)(1)/(2)/(3)/(6), 15.209	Pass
Additional provisions	15.215(c)	Pass

Intertek

# 1. General information

### **1.1 Identification of the EUT**

Applicant:	AboCom System,Inc
Product:	802.11a/b/g Wireless SDIO Card
Model No.:	SDW3100
Operating Frequency:	5180 MHz to 5320 MHz for 802.11a
Channel Number:	8 channels for 802.11a
Type of Modulation:	OFDM
Rated Power:	DC 3.3 V from PC PCI Card
Power Cord:	N/A
Data Cable:	N/A
Sample Received:	Dec. 24, 2008
Test Date(s):	Dec. 29, 2008 ~ Mar. 13, 2009
Note 1:	This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.
Note 2:	When determining the test conclusion, the Measurement Uncertainty of test has been considered.



# 1.2 Additional information about the EUT

The EUT is an 802.11a/b/g Wireless SDIO Card, and was defined as information technology equipment.

For more detail features, please refer to User's manual as file name "Installation guide.pdf".

# 1.3 Antenna description

#### For Printed antenna

Antenna Gain	: 2.09 dBi max
Antenna Type	: Printed antenna
Connector Type	: N/A

# **1.4 Peripherals equipment**

Peripherals	Manufacturer	Product No.	Serial No.
PC	DELL	GX-520	HWJK1S
Mouse	DELL	SK-8115	N/A
Keyboard	DELL	MO56U0A	FOM0138J
Monitor	BenQ	FP557	99L63726A132600064TAA6A1
Printer	HP	DeskJet 400	SG5CQ170C0
Modem	Dynalink	V1456VQE	00V230A00051494



# 2. Test specifications

# 2.1 Test standard

The EUT was performed according to the procedures in FCC Part 15 Subpart E Section §  $15.207 \times \$15.209 \times \$15.407 \times DA 02-2138$  and ANSI C63.4/2003.

The test of radiated measurements according to FCC Part15 Section 15.33(a) had been conducted and the field strength of this frequency band were all meet limit requirement, thus we evaluate the EUT pass the specified test.

The AC power conducted emissions was invested over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz (15.207 paragraph).

Radiated emissions were invested cover the frequency range from 30 MHz to 1000 MHz using a receiver RBW of 120 kHz record QP reading, and the frequency over 1 GHz using a spectrum analyzer RBW of 1 MHz and 10 Hz VBW record Average reading (15.209 paragraph), the Peak reading recorded also on the report.

The EUT setup configurations please refer to the photo of test configuration in item.

# 2.2 Operation mode

The EUT was supplied with DC 3 V from Notebook PC and it was running in operating mode.

The EUT was transmitted continuously during the test.

With individual verifying, the maximum output power was found out 6 Mbps data rate for 802.11a mode. The final tests were executed under these conditions and recorded in this report individually.

802.11a ch52		802.11a ch60	
Data rate (Mbps)	Data rate (Mbps)	Data rate (Mbps)	Data rate (Mbps)
6	17.71	6	17.88
9	17.69	9	17.83
12	17.64	12	17.80
18	17.60	18	17.74
24	17.58	24	17.72
36	17.52	36	17.68
48	17.49	48	17.63
54	17.44	54	17.61



# Table for Parameters of Test Software Setting

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

#### Power Parameters of 802.11a

Test Software Version		ART	
Frequency	5180 MHz	5200 MHz	5240 MHz
802.11a	8.5	7.5	8

# Power Parameters of 802.11a

Test Software Version		ART	
Frequency	5260 MHz	5600 MHz	5320 MHz
802.11a	9.5	9.5	9.5



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# 2.3 Test equipment

Equipment	Brand	Frequency range	Model No.
EMI Test Receiver	Rohde & Schwarz	9 kHz~2.75 GHz	ESCS 30
Spectrum Analyzer	Rohde & Schwarz	9 kHz~30 GHz	FSP 30
Spectrum Analyzer	Rohde & Schwarz	20 Hz~40 GHz	FSEK 30
Horn Antenna	EMCO	1 GHz~18 GHz	3115
Horn Antenna	SCHWARZBECK	14 GHz~40 GHz	BBHA 9170
Bilog Antenna	SCHWARZBECK	25 MHz~1.7 GHz	VULB 9160
Pre-Amplifier	MITEQ	100 MHz~26.5 GHz	919981
Pre-Amplifier	MITEQ	26 GHz~40 GHz	828825
Peak Power Meter/ Sensor	Anritsu	0.3~40 GHz	ML2495A/ MA2411B
Controller	HDGmbH	N/A	HD 100
Antenna Tower	HDGmbH	N/A	MA 240
Turn Table	HDGmbH	N/A	DS 420S
LISN	Rohde & Schwarz	9 kHz~30 MHz	ESH3-Z5

Note: The above equipments are within the valid calibration period.



# 3. Peak Output Power test (FCC 15.407)

# **3.1 Operating environment**

Temperature:	25	°C
Relative Humidity:	50	%
Atmospheric Pressure:	1023	hPa

# **3.2 Test setup & procedure**

The power output per FCC §15.407(a) was measured on the EUT using a 50 ohm SMA cable connected to power meter via power sensor. Power was read directly and cable loss correction (2.0dB) was added to the reading to obtain power at the EUT antenna terminals.

#### 3.3 Limit

Operating Frequency (MHz)	Output power limit
5150~5250	< 50 mW (17 dBm) or 4 dBm+10 log B
5250~5350, 5470~5725	< 250 mW (24 dBm) or 11 dBm+10 log B
5725~5825	< 1 W (30 dBm) or 17 dBm+10 log B

Remark: where B is the -26 dB emission bandwidth in MHz.



# 3.4 Measured data of Maximum Output Power test results

# Test mode: 802.11a mode

Mode	Channel	Frequency (MHz)	Data Rate	Output Power (dBm)	Limit (dBm)	Result
			(Mbps)	Printed		
	36	5180		16.96	17	Pass
	40	5200		16.84	17	Pass
802.11a	48	5240	6	16.88	17	Pass
002.11a	52	5260	0	17.95	24	Pass
	60	5600		17.88	24	Pass
	64	5320		17.82	24	Pass



# 4. Power Spectrum Density test (FCC 15.407)

# **4.1 Operating environment**

Temperature:	25	°C
Relative Humidity:	50	%
Atmospheric Pressure:	1023	hPa

# 4.2 Test setup & procedure

The power spectrum density per FCC §15.407(a) was measured from the antenna port of the EUT using a 50 ohm spectrum analyzer with the resolution bandwidth set at 1MHz, the video bandwidth set at 3 MHz. Power spectrum density was read directly and cable loss (2.0 dB)/external attenuator (20 dB) correction was added to the reading to obtain power at the EUT antenna terminals.

# 4.3 Limitation

Operating Frequency (MHz)	Power density limit
5150~5250	< 4 dBm/MHz
5250~5350, 5470~5725	< 11 dBm/MHz
5725~5825	< 17 dBm/MHz

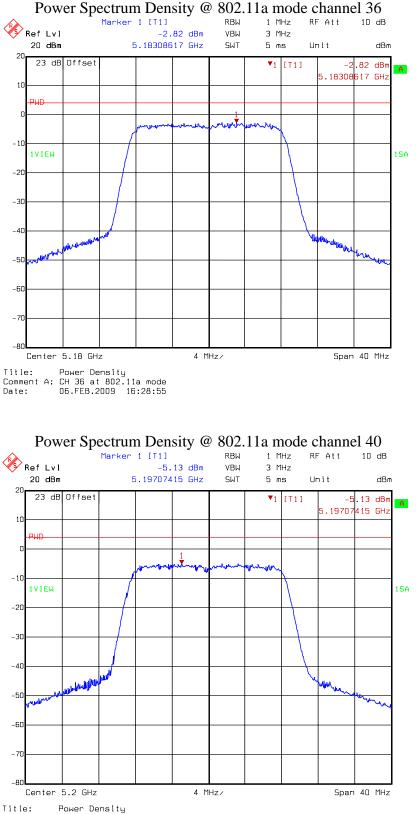
# 4.4 Measured data of Power Spectrum Density test results

# Test mode: 802.11a mode

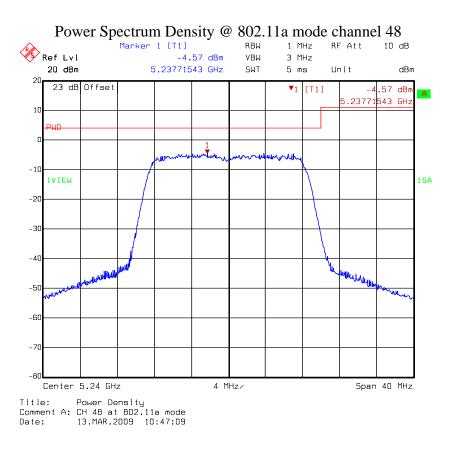
Mode	Channel	Frequency (MHz)	Data rate (Mbps)	PPSD (dBm)	Limit (dBm)	Reault	
	36	5180		-2.82	4	PASS	
	40	5200		-5.13	4	PASS	
802.11a	48	5240	6	-4.57	4	PASS	
002.11a	52	5260	0	-2.81	11	PASS	
	60	5600			-4.12	11	PASS
	64	5320		-3.15	11	PASS	

Please see the plot below.



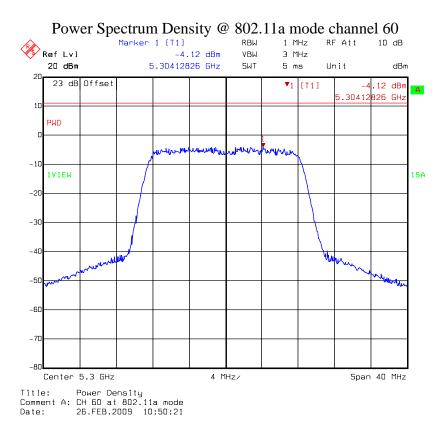


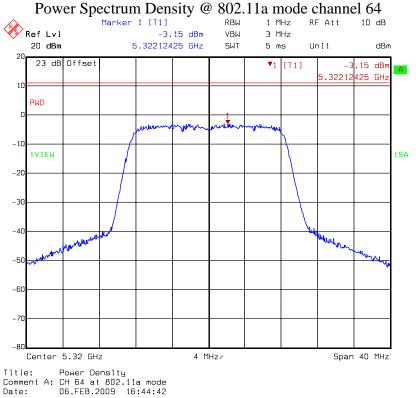
Title: Power Density Comment A: CH 40 at 802.11a mode Date: 13.MAR.2009 10:42:53



Marker 1 [T1] RBW 1 MHz RF Att 10 dB 🌾 Ref Lvl -2.81 dBm VВЫ 3 MHz 20 dBm 5.26308617 GHz SWT 5 ms Unit dBm 20 23 dB Offset 2.81 dBm ▼1 [T1] A .26308617 GHz 10 นก ~ -10 **1VIEW** 1**5**A -20 -30 -40 my -50 -60 -70 -80 Center 5.26 GHz Span 40 MHz 4 MHz/ Title: Power Density Comment A: CH 52 at 802.11a mode Date: 06.FEB.2009 16:38:39

Power Spectrum Density @ 802.11a mode channel 52







## 5. Peak excursion to average ratio test (FCC 15.407)

## **5.1 Operating environment**

Temperature:	25	°C
Relative Humidity:	50	%
Atmospheric Pressure:	1023	hPa

#### 5.2 Test setup & procedure

The power spectrum density per FCC §15.407(a)(6) was measured from the antenna port of the EUT. Using a 50ohm spectrum analyzer with the RBW=1MHz, VBW=3MHz for peak measurement and RBW=1MHz, VBW=10kHz for average measurement. Peak excursion to average ratio was read directly.

#### **5.3 Limitation**

Operating Frequency (MHz)	Peak excursion to average ratio limit
5150~5250	<13dB
5250~5350, 5470~5725	<13dB
5725~5825	<13dB

#### 5.4 Measured data of Peak excursion to average ratio test results

#### Test mode: 802.11a mode

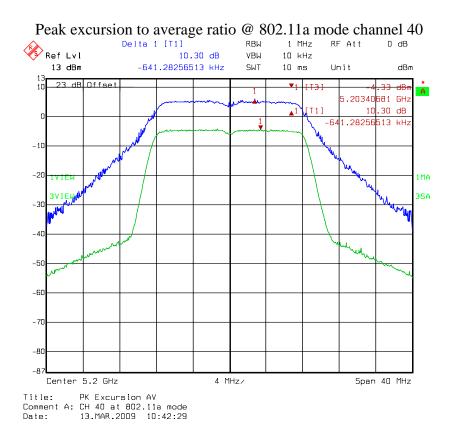
Mode	Channel	Frequency	Data rate	PPSD (dBm)	Limit	Reault
Widde	Channel	(MHz)	Mbps	TI SD (dDill)	(dBm)	Reduit
	36	5180		9.73	13	PASS
	40	5200		10.30	13	PASS
802.11a	48	5240	6	9.87	13	PASS
002.11a	52	5260	0	9.84	13	PASS
	60	5600		10.51	13	PASS
	64	5320		9.66	13	PASS

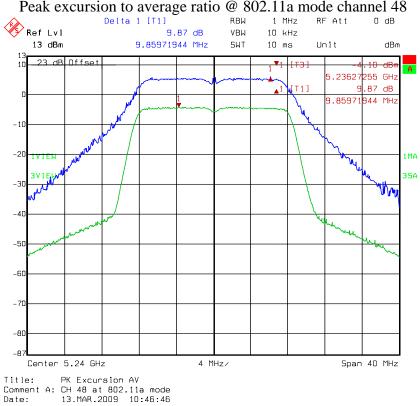
Please see the plot below.



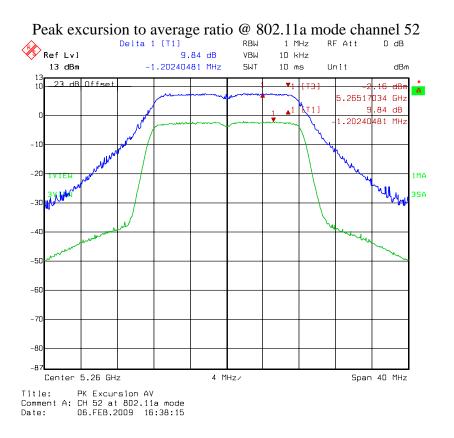


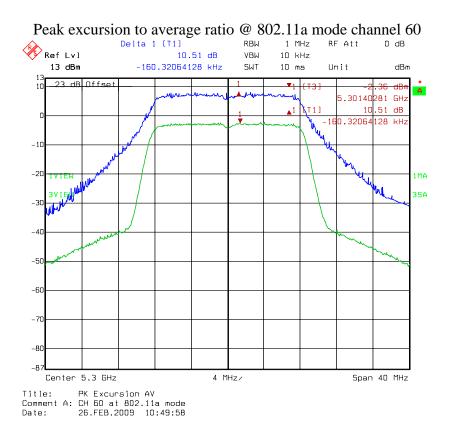
#### Peak excursion to average ratio @ 802.11a mode channel 36

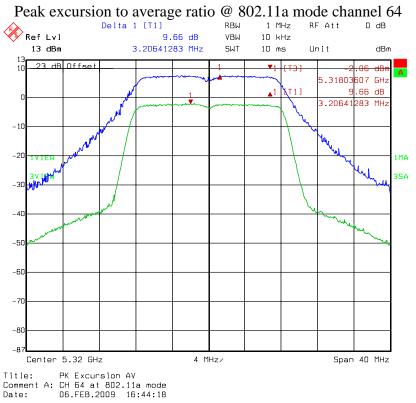




#### Peak excursion to average ratio @ 802.11a mode channel 48









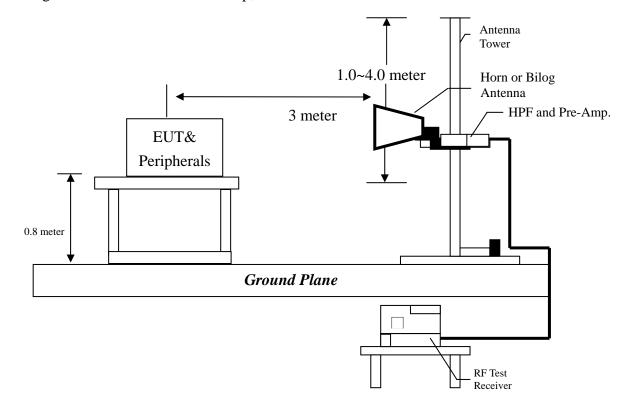
# 6. Radiated Emission test (FCC 15.205 & 15.209)

#### **6.1 Operating environment**

Temperature:	23	°C
Relative Humidity:	52	%
Atmospheric Pressure	1023	hPa

#### 6.2 Test setup & procedure

The Diagram below shows the test setup, which is utilized to make these measurements.



Radiated emission measurements were performed from 30MHz to tenth harmonic or 40GHz. The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.



The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance.

## **6.3 Emission limits**

The spurious Emission shall test through the 10th harmonic. In addition, radiated emissions which fall in the restricted bands, as defined in \$15.205(a), must also comply with the radiated emission limits specified in \$15.209(a).

Frequency	Limits
(MHz)	$(dB \ \mu V/m@3m)$
<u> </u>	40 43.5
216-960	45.5
Above 960	54

Remark:

- 1. In the above table, the tighter limit applies at the band edges.
- 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

Uncertainty was calculated in accordance with NAMAS NIS 81.

Expanded uncertainty (k=2) of radiated emission measurement is  $\pm 3.078$  dB. Expanded uncertainty (k=2) of conducted emission measurement is  $\pm 2.02$  dB.



# 6.4 Radiated spurious emission test data

# 6.4.1 Measurement results: frequencies equal to or less than 1 GHz

The test was performed on EUT under 802.11a continuously transmitting mode. The worst case occurred at 802.11a Tx channel 36.

EUT	: SDW3100
Worst Case	: 802.11a Tx at channel 36

Antenna	Freq.	Receiver	Corr.	Reading	Corrected	Limit	Margin
Polariz.			Factor		Level	@ 3 m	
(V/H)	(MHz)	Detector	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
V	33.880	QP	12.60	24.46	37.06	40.00	-2.95
V	108.570	QP	7.64	22.56	30.20	43.50	-13.30
V	365.620	QP	15.06	12.77	27.83	46.00	-18.17
V	799.210	QP	23.19	18.92	42.11	46.00	-3.89
V	881.660	QP	24.35	12.59	36.94	46.00	-9.07
V	897.180	QP	24.35	11.70	36.05	46.00	-9.96
Н	137.670	QP	12.32	16.15	28.47	43.50	-15.03
Н	480.080	QP	18.64	19.94	38.58	46.00	-7.42
Н	639.160	QP	21.55	14.30	35.85	46.00	-10.16
Н	799.210	QP	23.52	21.19	44.71	46.00	-1.29
Н	812.790	QP	23.62	11.25	34.87	46.00	-11.13
Н	830.250	QP	24.04	13.64	37.68	46.00	-8.33

Remark:

1. Corr. Factor = Antenna Factor + Cable Loss

2. Corrected Level = Reading + Corr. Factor



#### 6.4.2 Measurement results: frequency above 1GHz

EUT	: SDW3100
Test Condition	: 802.11a Tx at channel 36

Frequency	Spectrum	Antenna	Preamp.	Correction	Reading	Corrected	Limit	Margin
	Analyzer	Polariz.	Gain	Factor		Level	@ 3 m	
(MHz)	Detector	(H/V)	(dB)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
10360.00	РК	V	33.72	48.15	44.7	59.13	74	-14.87
10360.00	AV	Н	33.72	48.15	29.88	44.31	54	-9.69
10360.00	РК	V	33.72	48.15	52.32	66.75	74	-7.25
10360.00	AV	Н	33.72	48.15	37.09	51.52	54	-2.48

Remark:

- 1. Correction Factor = Antenna Factor + Cable Loss
- 2. Corrected Level = Reading + Correction Factor Preamp. Gain
- 3. The frequency measured ranges from 1GHz to 40GHz. The data value listed above which is higher than the system noise floor.

EUT	: SDW3100
Test Condition	: 802.11a Tx at channel 40

Frequency	Spectrum	Antenna	Preamp.	Correction	Reading	Corrected	Limit	Margin
	Analyzer	Polariz.	Gain	Factor		Level	@ 3 m	
(MHz)	Detector	(H/V)	(dB)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
10400.00	PK	V	33.72	48.15	44.89	59.32	74	-14.68
10400.00	AV	V	33.72	48.15	28.67	43.10	54	-10.90
10400.00	PK	Н	33.72	48.15	50.70	65.13	74	-8.87
10400.00	AV	Н	33.72	48.15	28.70	43.13	54	-10.87

Remark:

- 1. Correction Factor = Antenna Factor + Cable Loss
- 2. Corrected Level = Reading + Correction Factor Preamp. Gain
- 3. The frequency measured ranges from 1GHz to 40GHz. The data value listed above which is higher than the system noise floor.



EUT	: SDW3100
Test Condition	: 802.11a Tx at channel 48

Frequency	Spectrum	Antenna	Preamp.	Correction	Reading	Corrected	Limit	Margin
	Analyzer	Polariz.	Gain	Factor		Level	@ 3 m	
(MHz)	Detector	(H/V)	(dB)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
10480.00	PK	V	33.72	48.15	44.83	59.26	74	-14.74
10480.00	AV	V	33.72	48.15	30.18	44.61	54	-9.39
10480.00	PK	Н	33.72	48.15	42.41	56.84	74	-17.16
10480.00	AV	Н	33.72	48.15	26.55	40.98	54	-13.02

Remark:

- 1. Correction Factor = Antenna Factor + Cable Loss
- 2. Corrected Level = Reading + Correction Factor Preamp. Gain
- 3. The frequency measured ranges from 1GHz to 40GHz. The data value listed above which is higher than the system noise floor.

EUT	: SDW3100
Test Condition	: 802.11a Tx at channel 52

Frequency	Spectrum	Antenna	Preamp.	Correction	Reading	Corrected	Limit	Margin
	Analyzer	Polariz.	Gain	Factor		Level	@ 3 m	
(MHz)	Detector	(H/V)	(dB)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
10520.00	PK	V	33.23	49.24	42.63	58.64	74	-15.36
10520.00	AV	Н	33.23	49.24	27.12	43.13	54	-10.87
10520.00	РК	V	33.23	49.24	42.64	58.65	74	-15.35
10520.00	AV	Н	33.23	49.24	28.10	44.11	54	-9.89

Remark:

- 1. Correction Factor = Antenna Factor + Cable Loss
- 2. Corrected Level = Reading + Correction Factor Preamp. Gain
- 3. The frequency measured ranges from 1GHz to 40GHz. The data value listed above which is higher than the system noise floor.



EUT	: SDW3100
Test Condition	: 802.11a Tx at channel 60

Frequency	Spectrum	Antenna	Preamp.	Correction	Reading	Corrected	Limit	Margin
	Analyzer	Polariz.	Gain	Factor		Level	@ 3 m	
(MHz)	Detector	(H/V)	(dB)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
10600.00	РК	V	33.23	49.24	51.58	67.59	74	-6.41
10600.00	AV	V	33.23	49.24	29.29	45.30	54	-8.70
10600.00	РК	Н	33.23	49.24	34.46	50.47	54	-3.53

Remark:

- 1. Correction Factor = Antenna Factor + Cable Loss
- 2. Corrected Level = Reading + Correction Factor Preamp. Gain
- 3. The frequency measured ranges from 1GHz to 40GHz. The data value listed above which is higher than the system noise floor.

EUT	: SDW3100
Test Condition	: 802.11a Tx at channel 64

Frequency	Spectrum	Antenna	Preamp.	Correction	Reading	Corrected	Limit	Margin
	Analyzer	Polariz.	Gain	Factor		Level	@ 3 m	
(MHz)	Detector	(H/V)	(dB)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
10640.00	PK	V	33.23	49.24	44.29	60.3	74	-13.70
10640.00	AV	Н	33.23	49.24	28.75	44.76	54	-9.24
10640.00	РК	V	33.23	49.24	40.30	56.31	74	-17.69
10640.00	AV	Н	33.23	49.24	26.94	42.95	54	-11.05

Remark:

- 1. Correction Factor = Antenna Factor + Cable Loss
- 2. Corrected Level = Reading + Correction Factor Preamp. Gain
- 3. The frequency measured ranges from 1GHz to 40GHz. The data value listed above which is higher than the system noise floor.



#### 7. Emission on the band edge §FCC 15.205

The measurement was made to the average and peak field strength of the fundamental frequency. And the spurious emission in the restrict band must also comply with the FCC subpart C 15.209.

#### 7.1 Operating environment

Temperature:	23	°C
Relative Humidity:	52	%
Atmospheric Pressure	1023	hPa

#### 7.2 Test setup & procedure

The output of EUT was connected to spectrum analyzer via a 50ohm cable.

The setting of spectrum analyzer is:

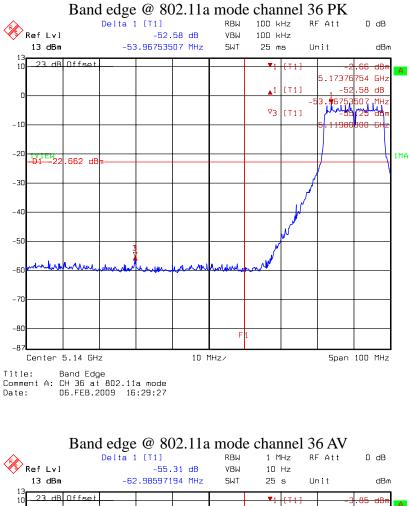
Peak:	RBW = 100kHz;	VBW = 100kHz
Average:	RBW = 1MHz;	VBW = 10Hz

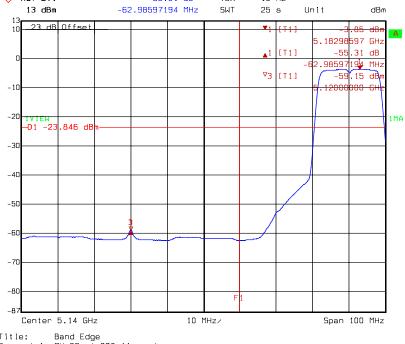
#### 7.3 Test Result

		Radiated Method	Conducted Method		(dBuV/m)	Margin (dB)
Channel		Max. Field Strength of Fundamental(dBuV	Loca Max.	The Max. Field Strength in Restrict Band (dBuV/m)		
110.26	PK	108.37	52.58	55.79	74	-18.21
11a 36	AV	97.65	55.31	42.34	54	-11.66
11a 64	PK	108.42	52.06	56.36	74	-17.64
	AV	97.72	54.60	43.12	54	-10.88

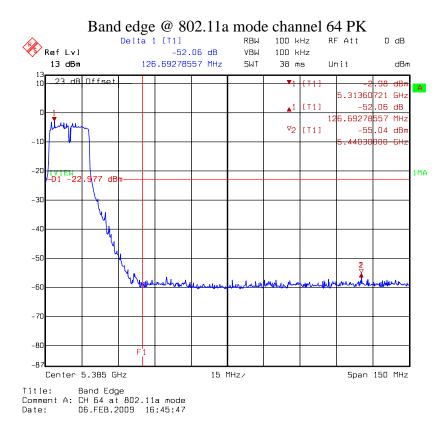
Please see the plots as below pages for conducted method test result.

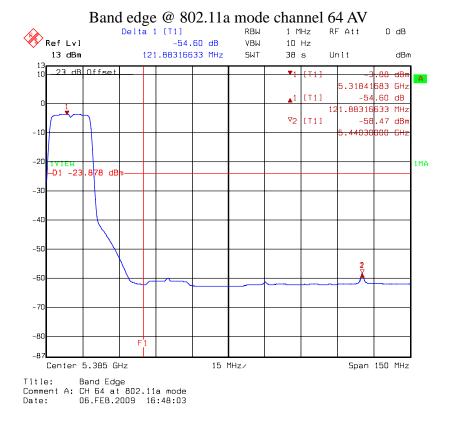






Title: Band Edge Comment A: CH 36 at 802.11a mode Date: 06.FEB.2009 16:30:44







## 8. Additional provisions test (FCC 15.215)

#### **8.1 Operating environment**

Temperature:	25	°C
Relative Humidity:	50	%
Atmospheric Pressure:	1023	hPa

#### **8.2 Procedure of test setup & limitation**

The additional provisions mean the device must be designed to ensure that the 20dB bandwidth of the emission or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

This requirement per FCC \$15.215 (c) was measured from the antenna port of the EUT using a 50ohm spectrum analyzer with the resolution bandwidth set at 300kHz (approximately 1% of the emission bandwidth), the video bandwidth set at 1MHz (VBW > RBW).



# 8.3 Measured data of Power Spectrum Density test results

