FCC RADIO TEST REPORT

according to

47 CFR FCC Part 15 Subpart E § 15.407

Equipment : MelodyWing SP Model No. : SST18SC03

Brand Name : SST

Filing Type : New Application

Applicant

Silicon Storage Technology, Inc. 16F-6,No.75,Sec.1,Sintai 5th Rd.,Sijhih City, Taipei County

22101

: VN8SST18SC03 **FCC ID**

Manufacturer

Silicon Storage Technology, Inc. 16F-6,No.75,Sec.1,Sintai 5th Rd.,Sijhih City, Taipei County

Received Date : Sep. 17, 2007 **Final Test Date** : Mar. 11, 2008

Statement

Test result included is only for the 5150 ~ 5250MHz of the product.

The test result in this report refers exclusively to the presented test model / sample.

Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.

The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in ANSI C63.4-2003 and 47 CFR FCC Part 15 Subpart E.

The test equipment used to perform the test is calibrated and traceable to NML/ROC.



SPORTON International Inc.

6F, No. 106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

Table of Contents

1.	SUMI	MARY OF THE TEST RESULT	2
2.	GENE	ERAL INFORMATION	3
	2.1.	Product Details	
	2.2.	Table for Filed Antenna	3
	2.3.	Table for Carrier Frequencies	3
	2.4.	Table for Test Modes	4
	2.5.	Table for Testing Locations	4
	2.6.	Table for Supporting Units	4
	2.7.	Table for Parameters of Test Software Setting	5
	2.8.	EUT Operation during Test	5
	2.9.	Test Configurations	6
3.	TEST	RESULT	7
	3.1.	AC Power Line Conducted Emissions Measurement	7
	3.2.	99% Occupied Bandwidth Measurement	11
	3.3.	Maximum Conducted Output Power Measurement	15
	3.4.	Power Spectral Density Measurement	19
	3.5.	Peak Excursion Measurement	23
	3.6.	Radiated Emissions Measurement	27
	3.7.	Band Edge Emissions Measurement	39
	3.8.	Frequency Stability Measurement	41
	3.9.	Antenna Requirements	43
4.	LIST	OF MEASURING EQUIPMENTS	44
5.	TEST	LOCATION	46
6.	TAF (CERTIFICATE OF ACCREDITATION	47
ΑI	PEN	DIX A. MAXIMUM PERMISSIBLE EXPOSURE	A1 ~ A3
ΑI	PEN	DIX B. TEST PHOTOS	B1 ~ B7
		DIX C. PHOTOGRAPHS OF EUT	

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 Issued Date : Mar. 28, 2008 FCC ID : VN8SST18SC03

History of This Test Report

Original Issue Date: Mar. 28, 2008

Report No.: FR790710AA

No additional attachment.

Additional attachment were issued as following record:

Attachment No.	Issue Date	Description

SPORTON International Inc. Page No. : ii of ii

SPORTON INTERNATIONAL INC.

SPORTON LAB

FCC TEST REPORT

Report No.: FR790710AA

CERTIFICATE OF COMPLIANCE

according to

47 CFR FCC Part 15 Subpart E § 15.407

Equipment : MelodyWing SP

Model No.

: SST18SC03

Brand Name: SST

Applicant

: Silicon Storage Technology, Inc.

16F-6,No.75,Sec.1,Sintai 5th Rd.,Sijhih City, Taipei

County 22101

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Sep. 17, 2007 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested rule parts. The data recorded as well as the test configuration specified is true and accurate for showing the sample's EMC nature.

SPORTON International Inc.

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1. SUMMARY OF THE TEST RESULT

	Applied Standard: 47 CFR FCC Part 15 Subpart E					
Part	Part Rule Section Description of Test		Result	Under Limit		
3.1	15.207	AC Power Line Conducted Emissions	Complies	7.85 dB		
3.2	15.407(a)	26dB Spectrum Bandwidth	Complies	-		
3.3	15.407(a)	Maximum Conducted Output Power	Complies	0.25 dB		
3.4	15.407(a)	Power Spectral Density	Complies	41.33 dB		
3.5	15.407(a)	Peak Excursion	Complies	10.32 dB		
3.6	15.407(b)	Radiated Emissions	Complies	3.47 dB		
3.7	15.407(b) Band Edge Emissions		Complies	6.57 dB		
3.8	15.407(g)	Frequency Stability	Complies	-		
3.9	15.203	Antenna Requirements	Complies	-		

Test Items	Uncertainty	Remark
AC Power Line Conducted Emissions	±2.3dB	Confidence levels of 95%
Maximum Conducted Output Power	±0.5dB	Confidence levels of 95%
Power Spectral Density	±0.5dB	Confidence levels of 95%
Peak Excursion	±0.5dB	Confidence levels of 95%
26dB Spectrum Bandwidth / Frequency Stability	±8.5×10 ⁻⁸	Confidence levels of 95%
Radiated Emissions (9kHz~30MHz)	±0.8dB	Confidence levels of 95%
Radiated Emissions (30MHz~1000MHz)	±1.9dB	Confidence levels of 95%
Radiated / Band Edge Emissions (1GHz~18GHz)	±1.9dB	Confidence levels of 95%
Radiated Emissions (18GHz~40GHz)	±1.9dB	Confidence levels of 95%
Temperature	±0.7	Confidence levels of 95%
Humidity	±3.2%	Confidence levels of 95%
DC / AC Power Source	±1.4%	Confidence levels of 95%

 SPORTON International Inc.
 Page No.
 : 2 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

2. GENERAL INFORMATION

2.1. Product Details

EUT is a MelodyWing SP with radio functions. Only the radio detail of WLAN is shown in the table below. For more detailed features description, please refer to the manufacturer's specifications or user's manual.

Items	Description
Power Type	4~6Vdc Power Adapter
Modulation	DSSS
Data Modulation	DSSS (BPSK / QPSK / CCK)
Data Rate (Mbps)	DSSS (1/ 2/ 5.5/11)
Frequency Range	5150 ~ 5250MHz
Channel Number	4
Channel Band Width (99%)	13.50 MHz
Conducted Output Power	15.90 dBm

2.2. Table for Filed Antenna

For 5GHz Band

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	-	W600-150-R200	Tri-Band Omni Directional Antenna	I-PEX	3.50

2.3. Table for Carrier Frequencies

Frequency Allocation

Frequency Band	Channel No.	Frequency
5150~5250 MHz	36	5170 MHz
(USA/Canada)	40	5190 MHz
Band 1	44	5210 MHz
	48	5230 MHz

 SPORTON International Inc.
 Page No.
 : 3 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

2.4. Table for Test Modes

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel
AC Power Conducted Emission	Adapter Mode	54Mbps	48
26dB Spectrum Bandwidth			
99% Occupied Bandwidth			
Measurement	Band 1~2/BPSK	6Mbps	36/40/48
Max. Conducted Output Power	Band 1~2/BPSK		30/40/40
Power Spectral Density			
Peak Excursion			
Radiated Emission Below 1GHz	BPSK	6Mbps	48
Radiated Emission Above 1GHz	Dand 1, 2/DDCK	014	00/40/40
Band Edge Emission	Band 1~2/BPSK	6Mbps	36/40/48
Band Edge Emission	Band 1~2/BPSK	6Mbps	36/48
Frequency Stability	Un-modulation	-	36

2.5. Table for Testing Locations

Test Site No.	Site Category	Location	FCC Reg. No.	IC File No.	VCCI Reg. No
03CH03-HY	SAC	Hwa Ya	101377	IC 4086B-1	-
CO04-HY	Conduction	Hwa Ya	101377	IC 4086B-1	-
TH01-HY	OVEN Room	Hwa Ya	-	-	-

Open Area Test Site (OATS); Semi Anechoic Chamber (SAC); Fully Anechoic Chamber (FAC).

2.6. Table for Supporting Units

Support Unit	Brand	Model	FCC ID
Notebook	DELL	D505	DoC

SPORTON International Inc. : 4 of 47 Page No. TEL: 886-2-2696-2468 Issued Date : Mar. 28, 2008 FAX: 886-2-2696-2255

FCC ID : VN8SST18SC03

2.7. 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

Test Software Version : Termial v1.9b				
5170MHz	5190MHz	5230MHz		
DEFAULT	DEFAULT	DEFAULT		

2.8. EUT Operation during Test

<Conduction>

During the test, the following programs under WIN XP were executed:

Executed "Terminal" to link with the EUT to receive and transmit data by WLAN.

<Radiation>

An executive program, EMCTEST.EXE under WIN XP, which generates a complete line of continuously repeating "H" pattern was used as the test software.

The program was executed as follows:

The NB sends "H" messages to the panel, and the panel displays "H" patterns on the screen.

<RF>

At the same time," Terminal" was executed to link with the EUT to receive and transmit data by WLAN.

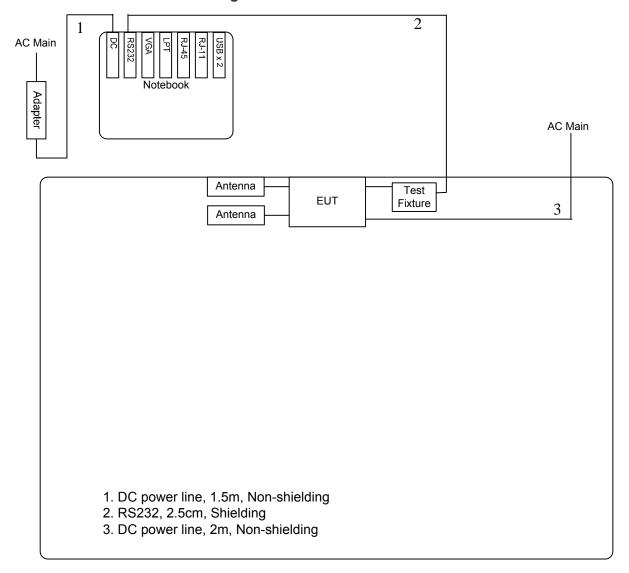
 SPORTON International Inc.
 Page No. : 5 of 47

 TEL: 886-2-2696-2468
 Issued Date : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID : VN8SST18SC03

2.9. Test Configurations

2.9.1. Radiation Emissions Test Configuration



 SPORTON International Inc.
 Page No. : 6 of 47

 TEL: 886-2-2696-2468
 Issued Date : Mar. 28, 2008

FCC ID

: VN8SST18SC03

FAX: 886-2-2696-2255

3. TEST RESULT

3.1. AC Power Line Conducted Emissions Measurement

3.1.1. Limit

For this product that is designed to connect to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Frequency (MHz)	QP Limit (dBuV)	AV Limit (dBuV)
0.15~0.5	66~56	56~46
0.5~5	56	46
5~30	60	50

3.1.2. Measuring Instruments and Setting

Please refer to section 4 of equipments list in this report. The following table is the setting of the receiver.

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

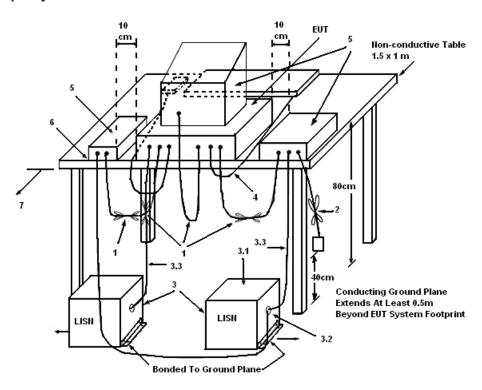
3.1.3. Test Procedures

- 1. Configure the EUT according to ANSI C63.4. The EUT or host of EUT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohms coupling impedance.
- The frequency range from 150 KHz to 30 MHz was searched.
- 5. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. The measurement has to be done between each power line and ground at the power terminal.

SPORTON International Inc. : 7 of 47 Page No. TEL: 886-2-2696-2468 Issued Date : Mar. 28, 2008 FAX: 886-2-2696-2255

FCC ID : VN8SST18SC03

3.1.4. Test Setup Layout



Report No.: FR790710AA

LEGEND:

- (1) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- (2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- (3) EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 . LISN can be placed on top of, or immediately beneath, reference ground plane.
- (3.1) All other equipment powered from additional LISN(s).
- (3.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
- (3.3) LISN at least 80 cm from nearest part of EUT chassis.
- (4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use.
- (5) Non-EUT components of EUT system being tested.
- (6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop.
- (7) Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.

3.1.5. Test Deviation

There is no deviation with the original standard.

3.1.6. EUT Operation during Test

The EUT was placed on the test table and programmed in normal function.

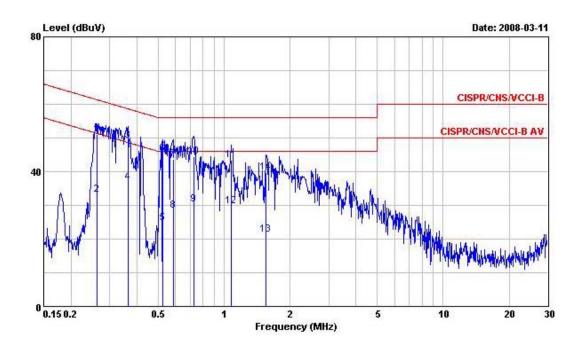
 SPORTON International Inc.
 Page No.
 : 8 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

3.1.7. Results of AC Power Line Conducted Emissions Measurement

Test date	Mar. 11, 2008	Test Site No.	CO04-HY
Temperature	25	Humidity	55%
Test Engineer	Chris	Phase	Line
Configuration	Adapter Mode		



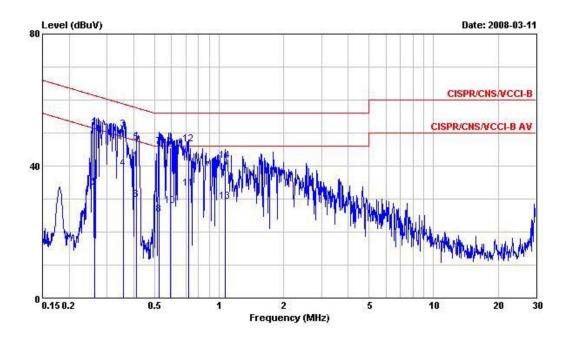
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	- dB	dBuV	dBuV	dB	dB	(i
1	0.2629470	50.95	-10.39	61.34	50.48	0.10	0.37	QP
2	0.2629470	33.05	-18.29	51.34	32.58	0.10	0.37	Average
3	0.3633820	49.22	-9.43	58.65	48.47	0.10	0.65	QP
4	0.3633820	36.82	-11.83	48.65	36.07	0.10	0.65	Average
5	0.5237620	24.82	-21.18	46.00	24.07	0.10	0.65	Average
6	0.5237620	45.15	-10.85	56.00	44.40	0.10	0.65	QP
7	0.5854040	43.66	-12.34	56.00	42.95	0.10	0.61	QP
8	0.5854040	28.43	-17.57	46.00	27.72	0.10	0.61	Average
9	0.7274420	30.28	-15.72	46.00	29.64	0.10	0.54	Average
10	0.7274420	44.34	-11.66	56.00	43.70	0.10	0.54	QP
11	1.080	43.30	-12.70	56.00	42.76	0.10	0.44	QP
12	1.080	29.79	-16.21	46.00	29.25	0.10	0.44	Average
13	1.550	21.34	-24.66	46.00	20.81	0.10	0.43	Average
14	1.550	39.77	-16.23	56.00	39.24	0.10	0.43	QP

 SPORTON International Inc.
 Page No. : 9 of 47

 TEL: 886-2-2696-2468
 Issued Date : Mar. 28, 2008

FAX: 886-2-2696-2255 FCC ID : VN8SST18SC03

Test date	Mar. 11, 2008	Test Site No.	CO04-HY
Temperature	25	Humidity	55%
Test Engineer	Chris	Phase	Neutral
Configuration	Adapter Mode		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	0
1	0.2616370	51.61	-9.77	61.38	51.14	0.10	0.37	QP
2	0.2616370	33.41	-17.97	51.38	32.94	0.10	0.37	Average
3	0.3576520	50.93	-7.85	58.78	50.20	0.10	0.63	QP
4	0.3576520	39.20	-9.58	48.78	38.47	0.10	0.63	Average
5	0.4126560	47.10	-10.49	57.59	46.28	0.10	0.72	QP
6	0.4126560	29.78	-17.81	47.59	28.96	0.10	0.72	Average
7	0.5237620	45.67	-10.33	56.00	44.92	0.10	0.65	QP
8	0.5237620	25.36	-20.64	46.00	24.61	0.10	0.65	Average
9	0.5947840	45.40	-10.60	56.00	44.70	0.10	0.60	QP
10	0.5947840	27.84	-18.16	46.00	27.14	0.10	0.60	Average
11	0.7197740	33.12	-12.88	46.00	32.47	0.10	0.55	Average
12	0.7197740	46.66	-9.34	56.00	46.01	0.10	0.55	QP
13	1.070	29.15	-16.85	46.00	28.61	0.10	0.44	Average
14	1.070	41.61	-14.39	56.00	41.07	0.10	0.44	QP

Note:

Level = Read Level + LISN Factor + Cable Loss.

 SPORTON International Inc.
 Page No.
 : 10 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

3.2. 99% Occupied Bandwidth Measurement

3.2.1. Limit

No restriction limits. But resolution bandwidth within band edge measurement is 1% of the 99% occupied bandwidth.

3.2.2. Measuring Instruments and Setting

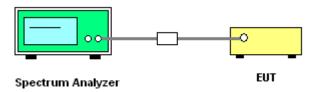
Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameters	Setting			
Attenuation	Auto			
Span Frequency	> 26dB Bandwidth			
RB	300 kHz			
VB	1000 kHz			
Detector	Peak			
Trace	Max Hold			
Sweep Time	Auto			

3.2.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
- 2. The resolution bandwidth of 300 kHz and the video bandwidth of 1000 kHz were used.
- 3. Measured the spectrum width with power higher than 26dB below carrier.

3.2.4. Test Setup Layout



3.2.5. Test Deviation

There is no deviation with the original standard.

3.2.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

 SPORTON International Inc.
 Page No.
 : 11 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

3.2.7. Test Result of 99% Occupied Bandwidth

Test date	Feb. 25, 2008	Test Site No.	TH01-HY
Temperature	28	Humidity	58%
Test Engineer	Nan	Configurations	CH36/40/48

Configuration

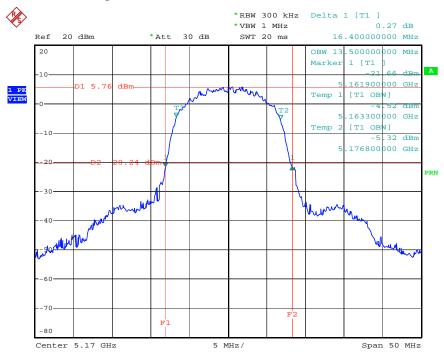
Channel	Frequency	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
36	5170MHz	16.40	13.50
40	5190MHz	16.20	13.50
48	5230 MHz	16.30	13.50

 SPORTON International Inc.
 Page No.
 : 12 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

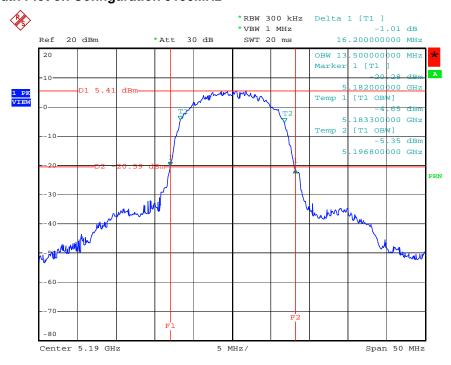
 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

26 dB Bandwidth Plot on Configuration 5170MHz



Date: 25.FEB.2008 08:51:05

26 dB Bandwidth Plot on Configuration 5190MHz



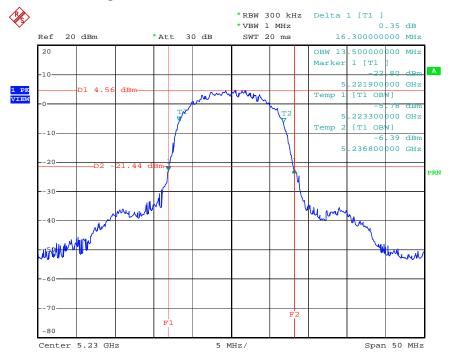
Date: 25.FEB.2008 09:20:47

 SPORTON International Inc.
 Page No.
 : 13 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

26 dB Bandwidth Plot on Configuration 5230 MHz



Date: 25.FEB.2008 09:28:00

 SPORTON International Inc.
 Page No.
 : 14 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

3.3. Maximum Conducted Output Power Measurement

3.3.1. Limit

For the band 5.15~5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 50 mW (17dBm) or 4 dBm + 10log B, where B is the 26 dB emissions bandwidth in MHz. If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power and power density from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10log B. If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power and power density from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.825 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 1 W (30dBm) or 17 dBm + 10log B. If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power and power density from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain up to 23 dBi without any corresponding reduction in the transmitter peak output power and peak power spectral density. For fixed, point-to-point U-NII transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in peak transmitter power and peak power spectral density for each 1 dB of antenna gain in excess of 23 dBi would be required.

3.3.2. Measuring Instruments and Setting

Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RB	1000 kHz
VB	300 kHz
Detector	Sample
Trace	Max Hold
Sweep Time	60s

3.3.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.

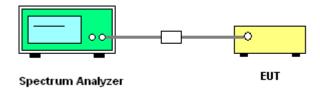
2. Test was performed in accordance with method #3 of FCC Public Notice DA-02-2138.

 SPORTON International Inc.
 Page No. : 15 of 47

 TEL: 886-2-2696-2468
 Issued Date : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID : VN8SST18SC03

3.3.4. Test Setup Layout



3.3.5. Test Deviation

There is no deviation with the original standard.

3.3.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.3.7. Test Result of Maximum Conducted Output Power

Test date	Feb. 25, 2008	Test Site No.	TH01-HY
Temperature	28	Humidity	58%
Test Engineer	Nan	Configurations	CH36/40/64

Configuration

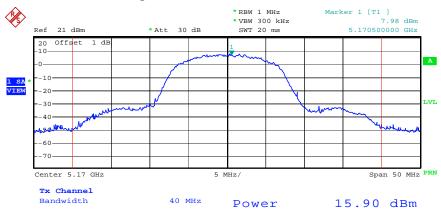
Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
36	5170MHz	15.90	16.15	Complies
40	5190MHz	15.70	16.10	Complies
64	5230 MHz	14.63	16.12	Complies

 SPORTON International Inc.
 Page No.
 : 16 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

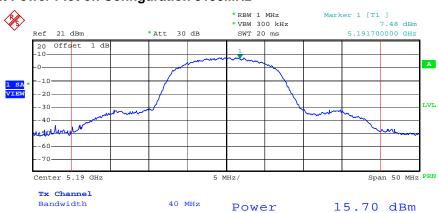
 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

Channel Output Power Plot on Configuration 5170MHz



Date: 25.FEB.2008 08:49:05

Channel Output Power Plot on Configuration 5190MHz



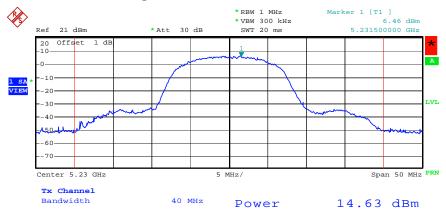
Date: 25.FEB.2008 09:19:14

 SPORTON International Inc.
 Page No.
 : 17 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

Channel Output Power Plot on Configuration 5230 MHz



Date: 25.FEB.2008 09:29:53

 SPORTON International Inc.
 Page No.
 : 18 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

3.4. Power Spectral Density Measurement

3.4.1. Limit

The power spectral density is defined as the highest level of power in dBm per MHz generated by the transmitter within the power envelope. The following table is power spectral density limits and decrease power density limit rule refer to section 3.3.1.

Frequency Range	Power Spectral Density limit (dBm/MHz)
5.15~5.25 GHz	4
5.25-5.35 GHz	11
5.725-5.825	17

3.4.2. Measuring Instruments and Setting

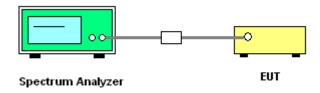
Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RB	1000 kHz
VB	3000 kHz
Detector	Sample
Trace	Average
Sweep Time	Auto

3.4.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer.
- 2. Set RBW of spectrum analyzer to 1000kHz and VBW to 3000kHz. Set Detector to Sample, Trace to Average. Mark the frequency with maximum power as the center of the display of the spectrum.

3.4.4. Test Setup Layout



3.4.5. Test Deviation

There is no deviation with the original standard.

 SPORTON International Inc.
 Page No.
 : 19 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

3.4.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.4.7. Test Result of Power Spectral Density

Test date	Feb. 25, 2008	Test Site No.	TH01-HY
Temperature	28	Humidity	58%
Test Engineer	Nan	Configurations	CH36/40/64

Configuration

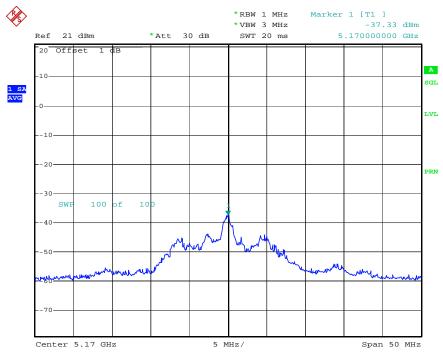
Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
5170MHz	-37.33	4.00	Complies
5190MHz	-35.75	4.00	Complies
5230 MHz	-36.54	4.00	Complies

 SPORTON International Inc.
 Page No.
 : 20 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

Power Density Plot on Configuration 5170MHz

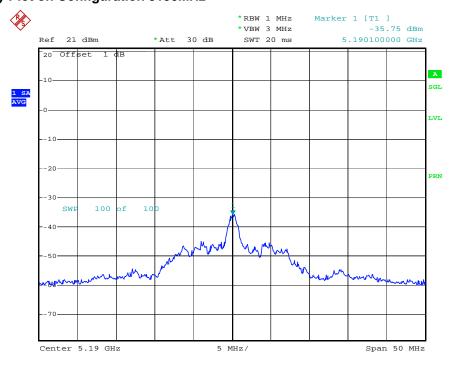


Power Density Plot on Configuration 5190MHz

Date:

Date:

25.FEB.2008 08:53:28



 SPORTON International Inc.
 Page No. : 21 of 47

 TEL: 886-2-2696-2468
 Issued Date : Mar. 28, 2008

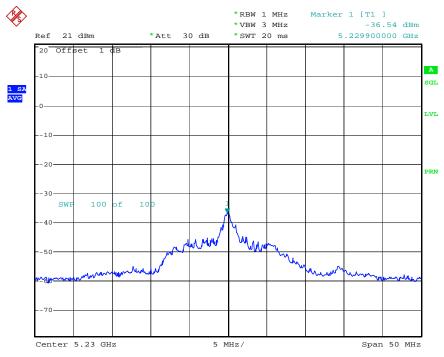
FCC ID

: VN8SST18SC03

25.FEB.2008 09:21:32

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

Power Density Plot on Configuration 5230 MHz



Date: 25.FEB.2008 09:26:18

 SPORTON International Inc.
 Page No.
 : 22 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

3.5. Peak Excursion Measurement

3.5.1. Limit

The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emissions bandwidth whichever is less.

3.5.2. Measuring Instruments and Setting

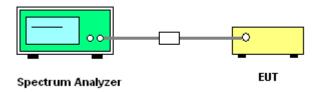
Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RB	1000 kHz (Peak Trace) / 1000 kHz (Average Trace)
VB	3000 kHz (Peak Trace) / 300 kHz (Average Trace)
Detector	Peak (Peak Trace) / Sample (Average Trace)
Trace	Max Hold
Sweep Time	60s

3.5.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer.
- Set the spectrum analyzer span to view the entire emissions bandwidth. The largest difference between
 the following two traces (Peak Trace and Average Trace) must be ≤ 13 dB for all frequencies across the
 emissions bandwidth. Submit a plot.
- 3. Peak Trace: Set RBW = 1 MHz, VBW ≥ 3 MHz with peak detector and max-hold settings.
- 4. Average Trace: Method #3—video averaging with max hold--and sum power across the band. Set span to encompass the entire emissions bandwidth (EBW) of the signal. Set sweep trigger to "free run". Set RBW = 1 MHz. Set VBW ≥ 1/T (VBW = 300kHz ≥ 1/4 µ s). Use sample detector mode if bin width (i.e., span/number of points in spectrum) < 0.5 RBW. Otherwise use peak detector mode. Set max hold. Allow max hold to run for 60 seconds.</p>

3.5.4. Test Setup Layout



3.5.5. Test Deviation

There is no deviation with the original standard.

 SPORTON International Inc.
 Page No.
 : 23 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

3.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.5.7. Test Result of Peak Excursion

Test date	Feb. 25, 2008	Test Site No.	TH01-HY
Temperature	28	Humidity	58%
Test Engineer	Nan	Configurations	CH36/40/64

Configuration

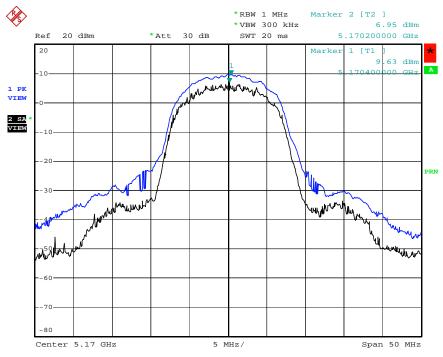
Frequency	Peak Excursion (dB)	Max. Limit (dB)	Result
5170MHz	2.68	13	Complies
5190MHz	2.61	13	Complies
5230 MHz	2.81	13	Complies

 SPORTON International Inc.
 Page No.
 : 24 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

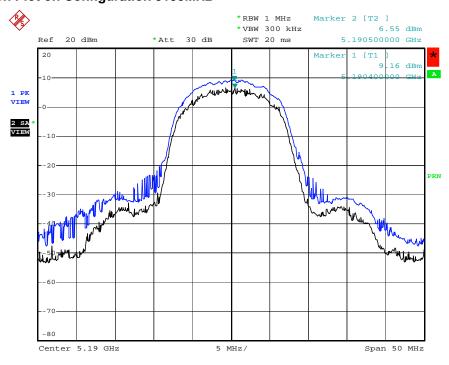
 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

Peak Excursion Plot on Configuration 5170MHz



Date: 25.FEB.2008 08:57:14

Peak Excursion Plot on Configuration 5190MHz



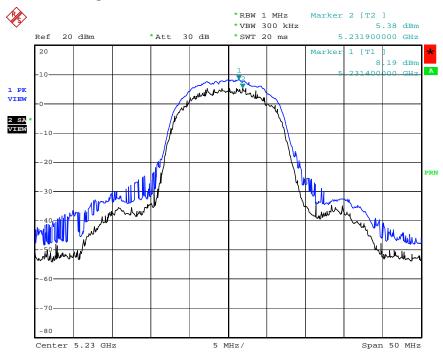
Date: 25.FEB.2008 09:23:17

 SPORTON International Inc.
 Page No.
 : 25 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

Peak Excursion Plot on Configuration 5230 MHz



Date: 25.FEB.2008 09:25:13

 SPORTON International Inc.
 Page No. : 26 of 47

 TEL: 886-2-2696-2468
 Issued Date : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID : VN8SST18SC03

3.6. Radiated Emissions Measurement

3.6.1. Limit

For transmitters operating in the 5.15-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz (78.3dBuV/m at 3m); for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). In addition, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

3.6.2. Measuring Instruments and Setting

Please refer to section 4 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	40 GHz	
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average	
RB / VB (Emission in non-restricted	1000KHz / 1000KHz for pook	
band)	1000KHz / 1000KHz for peak	

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

 SPORTON International Inc.
 Page No. : 27 of 47

 TEL: 886-2-2696-2468
 Issued Date : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID : VN8SST18SC03

3.6.3. Test Procedures

1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.

- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

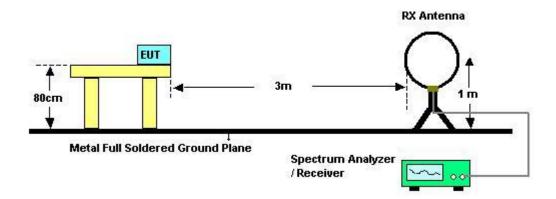
 SPORTON International Inc.
 Page No.
 : 28 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

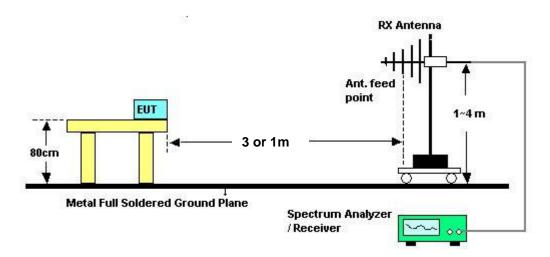
 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

3.6.4. Test Setup Layout

For radiated emissions below 30MHz



For radiated emissions above 30MHz



Above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1m]) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [9.54 dB].

3.6.5. Test Deviation

There is no deviation with the original standard.

3.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

 SPORTON International Inc.
 Page No. : 29 of 47

 TEL: 886-2-2696-2468
 Issued Date : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID : VN8SST18SC03

3.6.7. Results of Radiated Emissions (9kHz~30MHz)

Test date	Feb. 26, 2008	Test Site No.	03CH03-HY
Temperature	24.5	Humidity	45%
Test Engineer	Eddie		

Freq.	Level	Over Limit	Limit Line	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
-	-	-	1	See Note

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

 SPORTON International Inc.
 Page No.
 : 30 of 47

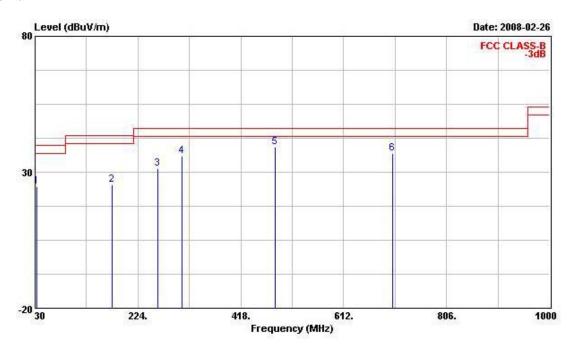
 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

3.6.8. Results of Radiated Emissions (30MHz~1GHz)

Test date	Feb. 26, 2008	Test Site No.	03CH03-HY
Temperature	24.5	Humidity	45%
Test Engineer	Eddie	Configurations	Ch 48

Horizontal



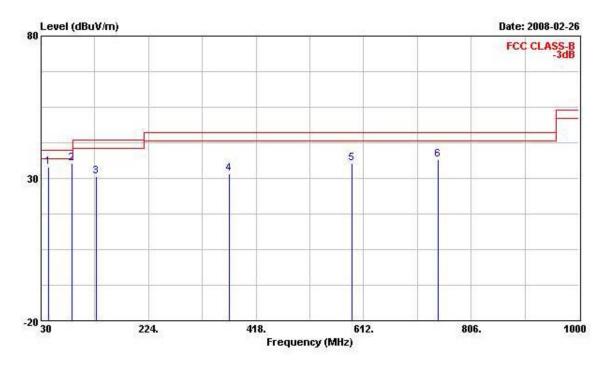
		Level			ReadAntenna		Cable	Preamp		Table	Ant
	Freq				*************	Factor dB/m	(100 de 100 m)		reconstruction of the contract	Pos deg	Pos
	MHz										
1	32.910	24.76	-15.24	40.00	33.48	16.71	2.26	27.69	Peak		
2	175.500	25.28	-18.22	43.50	40.58	9.38	3.15	27.83	Peak		
3	261.830	31.29	-14.71	46.00	42.21	13.64	3.63	28.19	Peak		
4	307.420	35.83	-10.17	46.00	46.70	13.87	3.82	28.57	Peak		
5	482.990	39.21	-6.79	46.00	46.20	17.96	4.42	29.37	Peak		
6	704.150	36.86	-9.14	46.00	41.32	20.03	5.24	29.73	Peak		

 SPORTON International Inc.
 Page No.
 : 31 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

Vertical



			(i 	12.00	ReadAntenna		Cable	Preamp		Table	Ant
	Freq	Level				Factor dB/m			i)	Pos deg	Pos
	MHz										
1	43.580	33.90	-6.10	40.00	47.57	10.93	3.16	27.75	Peak		-
2 @	86.260	35.31	-4.69	40.00	51.93	8.65	2.38	27.65	Peak		
3	129.910	30.75	-12.75	43.50	43.33	12.38	2.97	27.93	Peak		
4	369.500	31.53	-14.47	46.00	40.59	15.49	4.25	28.80	Peak		-
5	590.660	35.27	-10.73	46.00	40.65	19.30	4.88	29.56	Peak		5000
6	746.830	36.43	-9.57	46.00	40.30	20.66	5.12	29.65	Peak		

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

 SPORTON International Inc.
 Page No.
 : 32 of 47

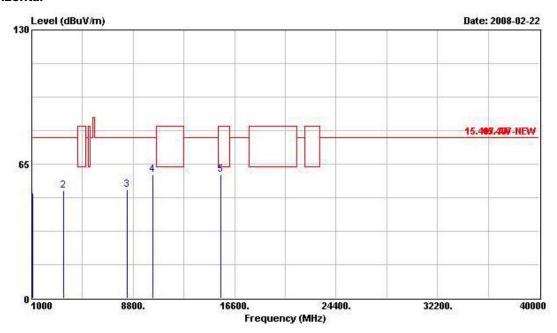
 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

3.6.9. Results for Radiated Emissions (1GHz~40GHz)

Test date	Feb. 26, 2008	Test Site No.	03CH03-HY
Temperature	24.5	Humidity	45%
Test Engineer	Eddie	Configurations	Ch 36

Horizontal



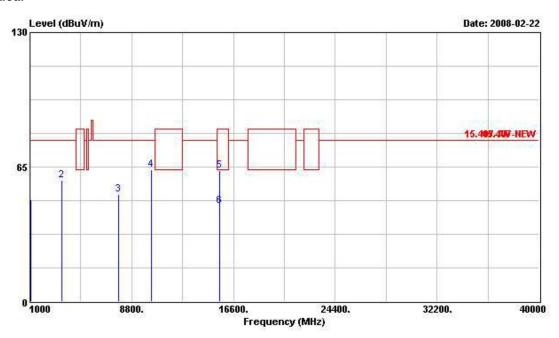
		Freq Level	Over Limit		ReadAntenna		Cable	Preamp		Table	Ant
	Freq				Level	el Factor uV dB/m	32154350		(150) (200) (100) (1	Pos deg	Pos
	MHz	dBuV/m	dB		dBuV						
1	1060.000	50.89	-26.95	77.84	59.33	24.39	1.28	34.11	PEAK	0	100
2	3444.000	51.96	-25.88	77.84	50.67	31.68	2.43	32.81	PEAK	360	100
3	8308.000	52.42	-25.42	77.84	42.75	38.11	4.76	33.20	PEAK	360	100
4	10340.000	59.80	-18.04	77.84	47.61	39.33	5.94	33.08	PEAK	360	200
5 @	15508.000	60.07	-3.47	63.54	48.57	37.50	6.50	32.50	PEAK _	0	100

 SPORTON International Inc.
 Page No.
 : 33 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

Vertical



			Over	Limit	Readi	Antenna	Cable	Preamp		Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dВ	3	deg	сл
1	1060.000	49.26	-28.58	77.84	57.69	24.39	1.28	34.11	PEAK	360	100
2	3444.000	58.49	-19.35	77.84	57.20	31.68	2.43	32.81	PEAK	0	100
3	7816.000	51.76	-26.08	77.84	42.63	37.62	4.63	33.12	PEAK	0	100
4	10340.000	63.80	-14.04	77.84	51.60	39.33	5.94	33.08	PEAK	0	200
5	15508.000	63.36	-20.18	83.54	51.86	37.50	6.50	32.50	PEAK	0	100
6	15508.000	46.00	-17.54	63.54	34.50	37.50	6.50	32.50	Average	0	100

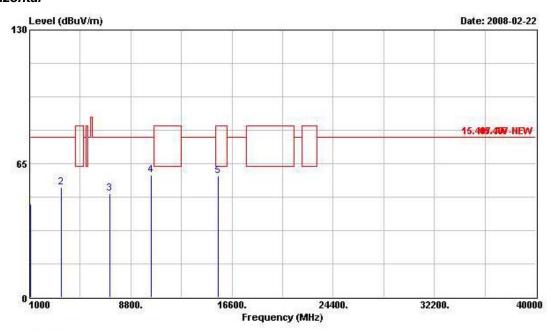
 SPORTON International Inc.
 Page No.
 : 34 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

Test date	Feb. 26, 2008	Test Site No.	03CH03-HY
Temperature	24.5	Humidity	45%
Test Engineer	Eddie	Configurations	Ch 40

Horizontal



			Over	Limit	Read	Antenna	Cable	Preamp		Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	Mtz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB/m dB	dB	4	deg	cm
1	1064.000	45.24	-32.60	77.84	53.63	24.39	1.28	34.07	PEAK	0	100
2	3460.000	53.31	-24.53	77.84	51.98	31.72	2.43	32.81	PEAK	360	100
3	7180.000	50.57	-27.27	77.84	42.92	36.56	4.02	32.94	PEAK	360	100
4	10380.000	59.33	-18.51	77.84	47.10	39.32	5.94	33.03	PEAK	360	200
5	15564.000	58.99	-4.55	63.54	47.44	37.53	6.53	32.51	Average	360	100

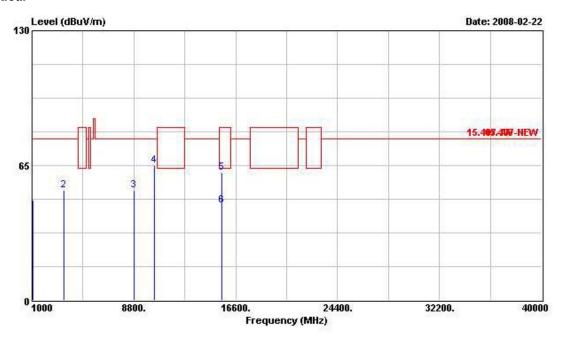
 SPORTON International Inc.
 Page No.
 : 35 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

Vertical

FAX: 886-2-2696-2255



	Freq	Level	Over Limit			Antenna Factor				Table Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	45	deg	сл
1	1064.000	48.33	-29.51	77.84	56.72	24.39	1.28	34.07	PEAK	360	100
2	3460.000	53.05	-24.79	77.84	51.72	31.72	2.43	32.81	PEAK	0	100
3	8796.000	52.84	-25.00	77.84	42.79	38.48	4.83	33.26	PEAK	360	100
4	10380.000	64.89	-12.95	77.84	52.65	39.32	5.94	33.03	PEAK	360	200
5	15572.000	61.55	-21.99	83.54	49.97	37.53	6.57	32.51	PEAK	360	100
6	15572.000	45.58	-17.96	63.54	34.00	37.53	6.57	32.51	Average	360	100

 SPORTON International Inc.
 Page No. : 36 of 47

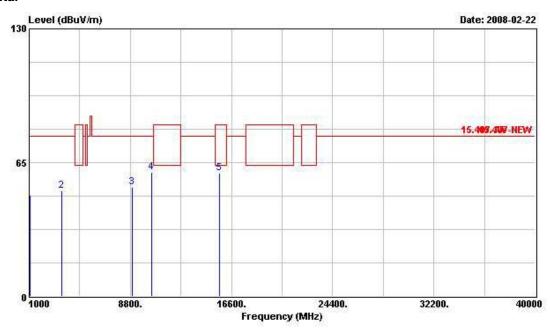
 TEL: 886-2-2696-2468
 Issued Date : Mar. 28, 2008

FCC ID

: VN8SST18SC03

Test date	Feb. 26, 2008	Test Site No.	03CH03-HY
Temperature	24.5	Humidity	45%
Test Engineer	Eddie	Configurations	Channel 48

Horizontal



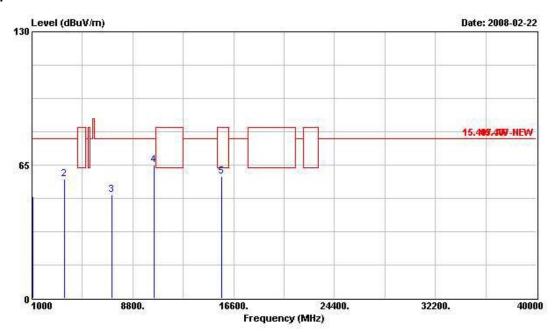
		Over	Limit	Read	Antenna	Cable	Preamp		Table	Ant
Freq	Level	Limit	Line	Level		Loss	Factor	or Remark	Pos deg	Pos
MHz	dBuV/m	dB	B dBuV/m	dBuV		dB	dB			cm
1 1064.000	49.01	-28.83	77.84	57.40	24.39	1.28	34.07	PEAK	360	100
2 3484.000	51.34	-26.50	77.84	49.95	31.76	2.43	32.81	PEAK	0	100
3 8944.000	53.12	-24.72	77.84	43.02	38.56	4.83	33.29	PEAK	360	100
4 10460.000	60.30	-17.54	77.84	48.00	39.31	5.94	32.95	PERK	0	100
5 @ 15692.000	59.75	-3.79	63.54	48.05	37.58	6.66	32.54	PERK	0	199

 SPORTON International Inc.
 Page No.
 : 37 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

Vertical



			Over	Limit	Read	Antenna	Cable	Preamp		Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	3	deg	сл
1	1064.000	49.44	-28.40	77.84	57.83	24.39	1.28	34.07	Average	0	100
2	3484.000	58.06	-19.78	77.84	56.67	31.76	2.43	32.81	PEAK	360	100
3	7192.000	50.53	-27.31	77.84	42.83	36.56	4.08	32.94	PEAK	360	100
4	10468.000	64.92	-12.92	77.84	52.62	39.31	5.94	32.95	PEAK	360	200
5 @	15692.000	59.54	-4.00	63.54	47.84	37.58	6.66	32.54	PEAK	0	100

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1m]) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [9.54 dB].

 SPORTON International Inc.
 Page No.
 : 38 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

3.7. Band Edge Emissions Measurement

3.7.1. Limit

For transmitters operating in the 5.15-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz (78.3dBuV/m at 3m); for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). In addition, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

3.7.2. Measuring Instruments and Setting

Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1 MHz /1 MHz for Peak

3.7.3. Test Procedures

- 1. The test procedure is the same as section 3.6.3, only the frequency range investigated is limited to 100MHz around bandedges.
- 2. In case the emission is fail due to the used RB/VB is too wide, marker-delta method of FCC Public Notice DA00-705 will be followed.

3.7.4. Test Setup Layout

This test setup layout is the same as that shown in section 3.6.4.

 SPORTON International Inc.
 Page No. : 39 of 47

 TEL: 886-2-2696-2468
 Issued Date : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID : VN8SST18SC03

3.7.5. Test Deviation

There is no deviation with the original standard.

3.7.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.7.7. Test Result of Band Edge Emissions

Test date	Feb. 25, 2008	Test Site No.	TH01-HY
Temperature	28	Humidity	58%
Test Engineer	Nan	Configurations	Channel 36, 48

Channel 36

			Over	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	100
1	5149.400	69.59	-13.95	83.54	34.19	34.35	1.05	0.00	Peak
2 @	5171.000	119.16			83.67	34.37	1.12	0.00	Peak
1	5150.000	56.97	-6.57	63.54	21.57	34.35	1.05	0.00	Average
2 @	5171.000	96.15			60.66	34.37	1.12	0.00	Average

Channel 48

			Over	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	16
1 @	5231.000	118.71			83.09	34.43	1.19	0.00	Peak
2	5398.200	66.84	-16.70	83.54	30.72	34.60	1.52	0.00	Peak
1 @	5231.000	95.56			59.94	34.43	1.19	0.00	Average
2	5397.400	53.96	-9.58	63.54	17.84	34.60	1.52	0.00	Average

Note:

Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1m]) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [9.54 dB].

 SPORTON International Inc.
 Page No.
 : 40 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

3.8. Frequency Stability Measurement

3.8.1. Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emissions is maintained within the band of operation under all conditions of normal operation as specified in the user's manual or ±20ppm.

3.8.2. Measuring Instruments and Setting

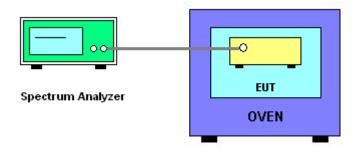
Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RB	10 kHz
VB	10 kHz
Sweep Time	Auto

3.8.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyser.
- 2. EUT have transmitted absence of modulation signal and fixed channelize.
- 3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
- 4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
- 5. fc is declaring of channel frequency. Then the frequency error formula is $(fc-f)/fc \times 10^6$ ppm and the limit is less than ± 20 ppm.
- 6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
- 7. Extreme temperature rule is -30°C~50°C.

3.8.4. Test Setup Layout



 SPORTON International Inc.
 Page No. : 41 of 47

 TEL: 886-2-2696-2468
 Issued Date : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID : VN8SST18SC03

3.8.5. Test Deviation

There is no deviation with the original standard.

3.8.6. EUT Operation during Test

The EUT was programmed to be in continuously un-modulation transmitting mode.

3.8.7. Test Result of Frequency Stability

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5170
138	5169.9710
120	5169.9814
102	5169.9890
Max. Deviation (MHz)	0.0290
Max. Deviation (ppm)	5.6093

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
()	5170
-30	5170.0158
-20	5170.0124
-10	5170.0081
0	5169.9974
10	5169.9897
20	5169.9814
30	5169.9671
40	5169.9692
50	5169.9614
Max. Deviation (MHz)	0.0386
Max. Deviation (ppm)	7.4662

 SPORTON International Inc.
 Page No.
 : 42 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

3.9. Antenna Requirements

3.9.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

3.9.2. Antenna Connector Construction

Please refer to section 2.3 in this test report; antenna connector complied with the requirements.

 SPORTON International Inc.
 Page No.
 : 43 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

4. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	Mar. 03, 2008	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Mar. 31, 2007	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Mar. 22, 2007	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2007	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN T400	21653	9kHz –30MHz	Mar. 27, 2007	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	Conduction (CO04-HY)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30 MHz - 1 GHz 3m	Jun. 14, 2007	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	COA9231A	18667	9 kHz - 2 GHz	Jan. 14, 2008	Radiation (03CH03-HY)
Amplifier	Agilent	8449B	3008A02120	1 GHz - 26.5 GHz	Jun. 07, 2007	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP40	100305	9 kHz - 40 GHz	Sep. 27, 2007	Radiation (03CH03-HY)
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30 MHz – 1 GHz	Jul. 21, 2007	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6741	1GHz ~ 18GHz	May 04, 2007	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15 GHz - 40 GHz	Jan.18, 2008	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz - 1 GHz	Dec. 03, 2007	Radiation (03CH03-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1 GHz - 40 GHz	Dec. 03, 2007	Radiation (03CH03-HY)
Turn Table	HD	DS 420	420/650/00	0 – 360 degree	N/A	Radiation (03CH03-HY)
Antenna Mast	HD	MA 240	240/560/00	1 m - 4 m	N/A	Radiation (03CH03-HY)
Spectrum Analyzer	Spectrum Analyzer R&S		100023	9kHz ~ 30GHz	Jan. 10, 2008	Conducted (TH01-HY)
Power Meter	Power Meter R&S		100444	DC ~ 40GHz	Jun. 27, 2007	Conducted (TH01-HY)
Power Sensor	Power Sensor R&S		100458	DC ~ 30GHz	Jun. 27, 2007	Conducted (TH01-HY)
Power Sensor	Power Sensor R&S		100057	30MHz ~ 6GHz	Jun. 27, 2007	Conducted (TH01-HY)
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Mar. 03, 2007	Conducted (TH01-HY)
Temp. and Humidity Chamber	KSON	THS-C3L	612	N/A	Jan. 14, 2008	Conducted (TH01-HY)
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz ~ 7GHz	Jan. 04, 2008	Conducted (TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Jan. 04, 2008	Conducted (TH01-HY)

 SPORTON International Inc.
 Page No.
 : 44 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Vector Signal Generator	R&S	SMU200A	102098	100kHz ~ 6GHz	Nov. 14, 2007	Conducted (TH01-HY)
Signal Generator	nal Generator R&S		100116	10MHz ~ 40GHz	Mar. 07, 2007	Conducted (TH01-HY)

Note: Calibration Interval of instruments listed above is one year. NCR: Non-Calibration required.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5 GHz - 40 GHz	Jan. 22, 2007*	Radiation (03CH03-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz - 30 MHz	May 23, 2006*	Radiation (03CH03-HY)
AC Power Source	HPC	HPA-500W	HPA-9100024	AC 0 ~ 300V	May 04, 2007*	Conducted (TH01-HY)

Note: Calibration Interval of instruments listed above is two year.

 SPORTON International Inc.
 Page No.
 : 45 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

5. TEST LOCATION

SHIJR	ADD	:	6FI., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C.
	TEL	:	886-2-2696-2468
	FAX	:	886-2-2696-2255
HWA YA	ADD	:	No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
	TEL	:	886-3-327-3456
	FAX	:	886-3-318-0055
LINKOU	ADD	:	No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C
	TEL	:	886-2-2601-1640
	FAX	:	886-2-2601-1695
DUNGHU	ADD	:	No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.
	TEL	:	886-2-2631-4739
	FAX	:	886-2-2631-9740
JUNGHE	ADD	:	7FI., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.
	TEL	:	886-2-8227-2020
	FAX	:	886-2-8227-2626
NEIHU	ADD	:	4FI., No. 339, Hsin Hu 2 nd Rd., Taipei 114, Taiwan, R.O.C.
	TEL	:	886-2-2794-8886
	FAX	:	886-2-2794-9777
JHUBEI	ADD	:	No.8, Lane 728, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.
	TEL	:	886-3-656-9065
	FAX	:	886-3-656-9085

 SPORTON International Inc.
 Page No.
 : 46 of 47

 TEL: 886-2-2696-2468
 Issued Date
 : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : VN8SST18SC03

6. TAF CERTIFICATE OF ACCREDITATION



Certificate No. - L1190-070110

財團法人全國認證基金會 Taiwan Accreditation Foundation

Certificate of Accreditation

This is to certify that

Sporton International Inc.

EMC & Wireless Communications Laboratory

No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

is accredited in respect of laboratory

Accreditation Criteria

ISO/IEC 17025:2005

Accreditation Number

1190

Originally Accredited

December 15, 2003

Effective Period

: January 10, 2007 to January 09, 2010

Accredited Scope

: Testing Field, see described in the Appendix

Specific Accreditation

n . for Commodities Inspection

Program

Accreditation Program for Telecommunication Equipment

Accreditation Program for Designated Testing Laboratory

Testing Laboratory

Jay-San Chen

President, Taiwan Accreditation Foundation

Date : January 10, 2007

P1, total 9 pages

The Appendix forms an integral part of this Certificate, which shall be invalid when used without the Appendix.

 SPORTON International Inc.
 Page No. : 47 of 47

 TEL: 886-2-2696-2468
 Issued Date : Mar. 28, 2008

 FAX: 886-2-2696-2255
 FCC ID : VN8SST18SC03