FCC TEST REPORT Report No.: F481401

FCC TEST REPORT

for

47 CFR Part 22H and 24E

Equipment : SOLOMON SCWi375u USB WiFi-GPRS Modem

Model No. : SCWi375u

FCC ID : NIT-SCWI375U

Filing Type : Certification

Applicant : SOLOMON Tecnology Corp.

No. 42, Sing Zhong Rd., Nei Hu Dist., Taipei,

Taiwan, 114 R.O.C.

- The test result refers exclusively to the test presented test model / sample.
- Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.
- Certificate or Test Report must not be used by the applicant to claim the product in this test report endorsement by NVLAP or any agency of U.S. government.

SPORTON International Inc.

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

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The applicant has been cautioned as to the following:

15.21 Information to User.

The users manual or instruction manual for an intentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

15.27(a) Special Accessories.

Equipment marketed to a consumer must be capable of complying with the necessary regulations in the configuration in which the equipment is marketed. Where special accessories, such as shielded cables and/or special connectors are required to enable an unintentional or intentional radiator to comply with the emission limits in this part, the equipment must be marketed with, i.e. shipped and sold with, those special accessories. However, in lieu of shipping or packaging the special accessories with the unintentional or intentional radiator, the responsible party may employ other methods of ensuring that the special accessories are provided to the consumer, without additional charge.

Information detailing any alternative method used to supply the special accessories for a grant of equipment authorization or retained in the verification records, as appropriate. The party responsible for the equipment, as detailed in § 2.909 of this chapter, shall ensure that these special accessories are provided with the equipment. The instruction manual for such devices shall include appropriate instructions on the first page of text concerned with the installation of the device that these special accessories must be used with the device. It is the responsibility of the user to use the needed special accessories supplied with the equipment.

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SCWI375U

FCC ID

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 Required information per ISO/IEC Guide 25-1990, paragraph 13.2:

- a) Test Report
- b) Laboratory:

Sporton International Inc.

No.52, Hwa-Ya 1st RD., Hwa Ya Technology Park, Kwei-Shan Hsiang,

TaoYuan Hsien, Taiwan, R.O.C.

- c) Report Number: F481401

SOLOMON Technology Corp.

Client:

No. 42, Sing Zhong Rd., Nei Hu Dist., Taipei, Taiwan, 114

R.O.C.

e) Identification:

Model Name: SCWi375u

FCC ID: NIT-SCWI375U

Description:

GSM/GPRS 850/1900 Radio

f) EUT Condition: Not required unless specified in individual tests.

g) Report Date:

Sep. 13, 2004

EUT Received: Aug. 14, 2004

h, j, k): As indicated in individual tests.

i) Sampling method: No sampling procedure used.

I) Uncertainty: In accordance with Sporton internal quality manual.

m) Supervised by:

Mendy Yang 9/13/2004

n) Results: The results presented in this report relate only to the item tested.

o) Reproduction:

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permission from this laboratory.

Accessories Used During Testing:

Type

Model

EUT

SCWi375u

Base Station Simulator

CMU200

Base Station Simulator

E5515C

List of General Information Required for Certification

Report No.: F481401

In Accordance with FCC Rules and Regulations, Volume II, Part 2 and 22H, 24E, Confidentiality

Sub-Part 2.1033

(c)(1): Name and Address of Applicant:

SOLOMON Technology Corp.

No. 42, Sing Zhong Rd., Nei Hu Dist., Taipei, Taiwan,

114 R.O.C.

Manufacturer

As above

(c)(2): FCC ID: NIT-SCWI375U

Model Number: SCWi375u

(c)(3): Instruction Manual(s):

Please See Attached Exhibits

(c)(4): **Type of Emission**: 300KGXW

(c)(5): **FREQUENCY RANGE, MHz**: 824.2 to 848.8 GSM/GPRS 850

1850.2 to 1909.8 GSM/GPRS 1900

(c)(6): **Power Rating,** GSM 850: 0.617 (conducted) / 0.396 (ERP)

Watts:

PCS 1900: 0.813 (conducted) / 1.992 (EIRP)

Switchable x Variable N/A

(c)(7): Maximum Power Rating, Watts: 2 (GSM 850)

1 (PCS 1900)

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Subpart 2.1033 (continued) (c)(8): Voltages & Currents in All Elements in Final RF Stage, Including Final Transistor or Solid State Device: Collector Current, A = 0.5 Collector Voltage, Vdc = 5 Supply Voltage, Vdc = (c)(9): Tune-Up Procedure: Please See Attached Exhibits (c)(10): Circuit Diagram/Circuit Description: Please See Attached Exhibits (c)(11): Label Information: Please See Attached Exhibits (c)(12): Photographs: Please See Attached Exhibits (c)(13): Digital Modulation Description: _ Attached Exhibits <u>x</u> N/A (c)(14): Test and Measurement Data: **Follows**

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Testimonial and Statement of Certification

This is to certify that:

- That the application was prepared either by, or under the direct supervision of, the undersigned.
- 2. That the technical data supplied with the application was taken under my direction and supervision.
- 3. That the data was obtained on representative units, randomly selected.
- That, to the best of my knowledge and belief, the facts set forth in the application 4. and accompanying technical data are true and correct.

Certified by:

Daniel Lee

Variel Lee 4/3/2004

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Certificate of NVLAP Accreditation



NVLAP-01C (06-01)

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Sub-part

2.1033(c)(14): Test and Measurement Data

All tests and measurement data shown were performed in accordance with FCC Rules and Regulations, Volume II; Part 2, Sub-part J, Sections 2.947, 2.1033(c), 2.1041, 2.1046, 2.1047, 2.1079, 2.1051, 2.1053, 2.1055, 2.1057 and the following individual Parts:

Report No. : F481401

22 - Public Mobile Services

- x 22 Subpart H Cellular Radiotelephone Service
 22.901(d) Alternative technologies and auxiliary services
- x 24 Personal Communications Services

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 FAX: 886-2-2696-2468
 Inc.
 Inc.

General Information

Product Feature	& Specification
1. DUT Type :	SOLOMON SCWi375u USB WiFi-GPRS Modem
2. Trade Name :	SOLOMON
3. Model Name :	SCWi375u
4. Tx Frequency :	GSM 850: 824 ~ 849 MHz PCS 1900: 1850 ~ 1910 MHz IEEE 802.11b: 2400 ~ 2483.5 MHz
5. Rx Frequency :	GSM 850: 869 ~ 894 MHz PCS 1900: 1930 ~ 1990MHz IEEE 802.11b: 2400 ~ 2483.5 MHz
6. Channel Spacing	200 KHz
7. Maximum Output Power to Antenna :	GSM 850: 27.9 dBm PCS 1900: 29.1 dBm IEEE 802.11b: 11 dBm
8. Type of Modulation :	GSM 850: GMSK PCS 1900: GMSK IEEE 802.11b: CCK, DQPSK, DBPSK
9. DUT Stage :	Production Unit
10. Application Type :	Certification

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Standard Test Conditions

Report No. : F481401

SCWI375U

and

Engineering Practices

Except as noted herein, the following conditions and procedures were observed during the testing:

In accordance with TIA603, and unless otherwise indicated in the specific measurement results, the ambient temperature of the actual EUT was maintained within the range of 10° to 40°C (50° to 104 °F) unless the particular equipment requirements specify testing over a different temperature range. Also, unless otherwise indicated, the humidity levels were in the range of 10% to 90% relative humidity.

Prior to testing, the EUT was tuned up in accordance with the manufacturer's alignment procedures. All external gain controls were maintained at the position of maximum and/or optimum gain throughout the testing.

Measurement results, unless otherwise noted, are worst-case measurements.

SPORTON International Inc.

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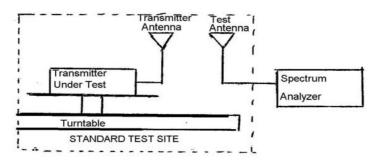
Name of Test: EIRP Carrier Power (Radiated)

Specification: TIA/EIA 603A (Substitution Method)

Definition: The average radiated power of device is the equivalent power required, when delivered to a substitution antenna, to produce at a distant point the same average received power as produced by the licensed device.

Method Of Measurement:

a) Connect the equipment as illustrated. Place the transmitter to be tested on the turntable in the standard test site.



b) Raise and lower the test antenna from 1m to 4m and rotate turntable from 0° to 360°. Record the highest received signal showed in spectrum analyzer as Rt . Calculate electric field strength in receive antenna as Et.

$$Et = Rt + AF$$

AF (dB/m): Receive Antenna Factor

c) Replace the transmitter under test with a substitution antenna. The center of the antenna should be at the same location as the transmitter under test. Connect the antenna to a signal generator with a known output power level Ps. Raise and lower the test antenna like in step b) and record the highest received signal showed in spectrum analyzer as R_s. Calculate electric field strength in receive antenna as Es.

$$Es = Rs + AF$$

AF (dB/m): Receive Antenna Factor

d) Calculate radiated power as following:

EIRP = Ps + Et - Es + Gs

Ps (dBm): Input Power to Substitution Antenna

Gs (dBi): Substitution Antenna Gain

Results Attached

Tested By:

Tim Kao

Report No.: F481401

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FCC TEST REPORT

<u>Test Results For</u>: ERP/EIRP Carrier Power (Radiated)

Conducted Power

GSM 850

Bands	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)
	128	824.2 (Low)	27.8	0.603
GSM 850	189	836.4 (Mid)	27.8	0.603
	251	848.8 (High)	27.9	0.617

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PCS 1900

Bands	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)
	512	1850.2 (Low)	28.3	0.676
PCS 1900	661	1880.0 (Mid)	28.5	0.708
	810	1909.8 (High)	29.1	0.813

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ERP/EIRP

GSM 850 ERP

Freq MHz	Pol	Substitution Antenna Input Power (dBm)	Substitution Antenna Gain (dBd)	⊨t	Es (dBuV/m)	Et - Es (dB)	Radiated Power (dBm)	Radiated Power (Watts)
824.11	Н	-2.49	-1.62	123.71	93.62	30.09	25.98	0.396
836.38	Н	-2.49	-1.54	122.16	93.85	28.31	24.28	0.268
848.79	Н	-2.48	-1.46	121.25	94.09	27.16	23.22	0.210
824.15	V	-2.49	-1.62	121.62	93.63	27.99	23.89	0.245
836.39	V	-2.49	-1.54	120.57	93.85	26.72	22.69	0.186
848.75	V	-2.48	-1.46	119.44	94.09	25.35	21.41	0.138

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SCWI375U

PCS 1900 EIRP

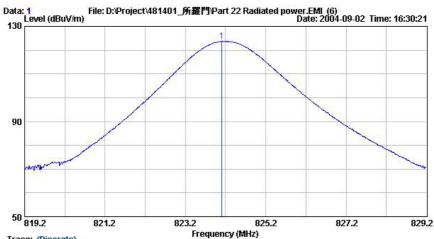
Freq MHz	Pol	Substitution Antenna Input Power (dBm)	Substitution Antenna Gain (dBi)	Et (dBuV/m)	Es (dBuV/m)	Et - Es (dB)	Radiated Power (dBm)	Radiated Power (Watts)
1850.23	Η	-3.76	6.64	126.16	98.65	27.51	30.39	1.094
1879.94	Н	-3.78	6.65	128.71	98.59	30.12	32.99	1.992
1909.75	Н	-3.81	6.66	125.24	98.52	26.72	29.58	0.907
1850.26	V	-3.76	6.64	121.16	98.65	22.51	25.39	0.346
1879.98	V	-3.78	6.65	122.06	98.59	23.47	26.34	0.431
1909.70	V	-3.81	6.66	121.15	98.52	22.63	25.49	0.354

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GSM 850 CH128 Horizontal Polarization



Trace: (Discrete)

Site Condition

: 03CH06-HY : 3m BI LOG 2004 0629 HORIZONTAL 114cm 326deg EUT 802.11b USB WLAN Dongle with GPRS modem

Power Model AC 120V / 60Hz

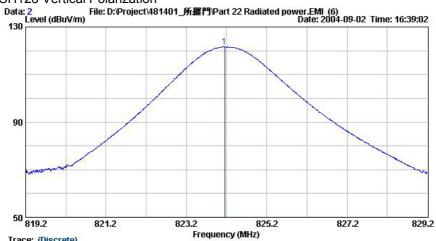
: SCWi375u

1 @

: GSM850 CH128 Link mode

Freq	Level					Preamp Factor	Cable Loss	Ant Pos	Table Pos
MHz	dBu¥/m	dB	dBuV/m	dBu₹	dB/m	dB	dB	cn	deg
824.11	123.71			100.14	20.30	0.00	3.27	114	326

GSM 850 CH128 Vertical Polarization



Trace: (Discrete)

AC 120V / 60Hz Model : SCWi375u

1

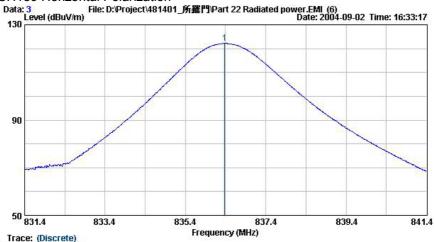
: GSM850 CH128 Link mode Memo

10	: GSM630 CH126 Link mod	Je .	Over	Limit	Read	Antonno	Preamp	Cable	Ant	Table
	Freq	Level					Factor		Pos	Pos
	MHz	dBu√/m	dB	dBuV/m	dBu₹	dB/m	₫B	dB	cm	deg
	824.15	121.62			98.05	20.30	0.00	3.27	114	188

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SCWI375U FCC ID TEL: 886-2-2696-2468 15 of 66 Page No. FAX: 886-2-2696-2255 Issued Date Sep. 13, 2004

GSM 850 CH189 Horizontal Polarization



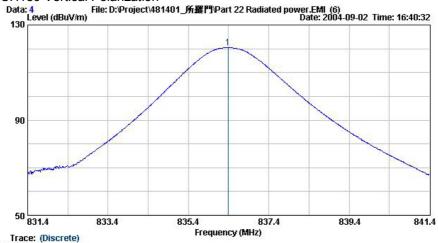
Site : 03CH06-HY Condition : 3m BI LOG 2004 0629 HORIZONTAL 114cm 32Sdeg EUT 802.11b USB WLAN Dongle with GPRS modem

AC 120V/60Hz Model · SCWi375n

Memo : GSM850 CH189 Link mode

Freq	Level		Limit Line				Loss	Ant Pos	Table Pos
MHz	dBu∀/m	dB	dBuV/m	dBu¥	dB/m	dB	dB	ст	deg
836, 38	122, 16			98, 48	20, 35	0.00	3, 33	114	325

GSM 850 CH189 Vertical Polarization



Site : 03CH06-HY
Condition : 3m BI LOG 2004 0629 VERTICAL 114cm 190deg EUT 802.11b USB WLAN Dongle with GPRS modem

Power Model : AC 120V / 60Hz : SCWi375u

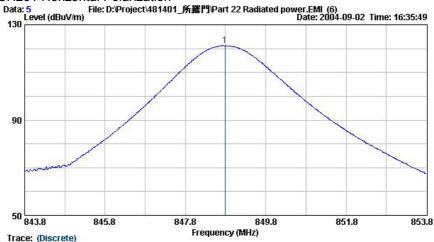
Memo : GSM850 CH189 Link mode

	Freq	Level					Preamp Factor			Table Pos	
	MHz	dBu∜/m	dB	dBu∛/m	dBu∛	dB/m	——dB	dB	cm	deg	
1	836.39	120.57			96.89	20.35	0.00	3.33	114	190	

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GSM 850 CH251 Horizontal Polarization



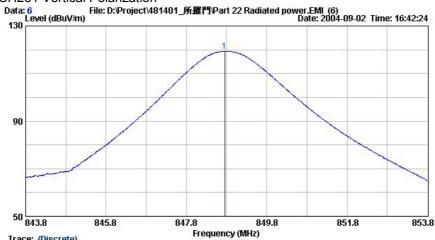
Site : 03CH06-HY Condition : 3m BI LOG 2004 0629 HORIZONTAL 114cm 32Sdeg EUT 802.11b USB WLAN Dongle with GPRS modem

AC 120V/60Hz Model · SCWi375n

Memo : GSM850 CH251 Link mode

Freq	Level		Limit Line				Cable Loss	Ant Pos	Table Pos	
MHz	dBu∜/m	dB	dBu∛/m	dBu∛	dB/m	dB	dB	cm	deg	
848.79	121, 25			97, 56	20.40	0.00	3, 29	114	325	

GSM 850 CH251 Vertical Polarization



Trace: (Discrete)

Site : 03CH06-HY
Condition : 3m BI LOG 2004 0629 VERTICAL 114cm 187deg EUT 802.11b USB WLAN Dongle with GPRS modem

Power Model : AC 120V / 60Hz : SCWi375u

Memo : GSM850 CH251 Link mode

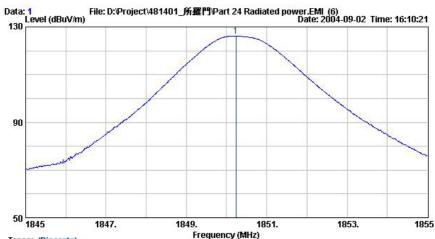
	Freq	Level		Limit Line					Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBu∛	dB/m	dB	dB	cm	deg
1	848.75	119.44			95.75	20.40	0.00	3.29	114	187

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PCS 1900 CH512 Horizontal Polarization



Trace: (Discrete)

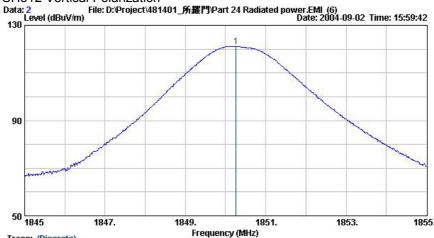
1 @

: 03CH06-HY : 3m HF-HORN AH-118 HORIZONTAL 114cm 353deg Condition EUT 802.11b USB WLAN Dongle with GPRS modem

Power Model : AC 120V/60Hz : SCWi375u : PCS CH512 Link mode

Freq	Level		Limit Line				Cable Loss	Ant Pos	Table Pos	
MHz	dBu¥/m	dB	dBuV/m	dBu∛	dB/m	dB	dB	cm	deg	
1850.23	126.16			96.00	27, 25	0.00	2.91	114	353	

PCS 1900 CH512 Vertical Polarization



Trace: (Discrete): 03CH06-HY Site

Condition : 3m HF-HORN AH-118 VERTICAL 0cm Odeg 802.11b USB WLAN Dongle with GPRS modem AC 120V/60Hz EUT

Power Model

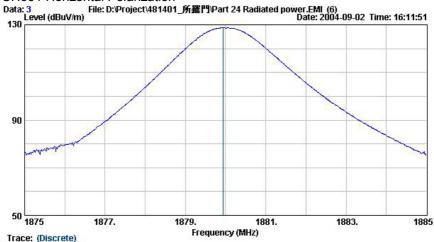
: SCWi375u : PCS CH512 Link mode Memo

	Freq	Level					Preamp Factor	Loss	Ant Pos	Table Pos
	MHz	$\overline{\text{dBuV/m}}$	dB	dBu∛/m	dBu∛	dB/m	dB	dB	cm	deg
1 @	1850.26	121.16			91.00	27. 25	0.00	2.91	0	0

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PCS 1900 CH661 Horizontal Polarization



: 03CH06-HY : 3m HF-HORN AH-118 HORIZONTAL 124cm 352deg Condition EUT 802.11b USB WLAN Dongle with GPRS modem

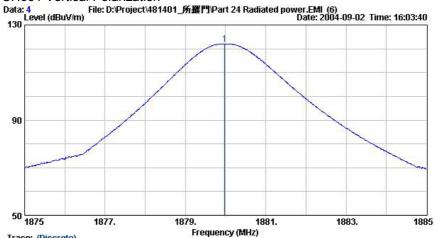
AC 120V/60Hz Model · SCWi375n

1 @

Memo : PCS CH661 Link mode

Freq	Level		Limit Line				Loss	Ant Pos	Table Pos	
MHz	dBu∜/m	dB	dBu∛/m	dBu¥	dB/m	dB	dB	cn	deg	
1879.94	128.71			98.34	27.42	0.00	2.95	124	352	

PCS 1900 CH661 Vertical Polarization



Trace: (Discrete)

Site Condition

: 03CH06-HY : 3m HF-HORN AH-118 VERTICAL 0cm 0deg EUT 802.11b USB WLAN Dongle with GPRS modem

Power Model : AC 120V/60Hz : SCWi375u

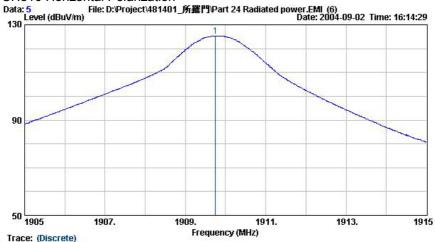
: PCS CH661 Link mode

	Freq	Level					Preamp Factor		Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBu₹	dB/m	dB	dB	cm	deg
1 @	1879.98	122.06			91.69	27.42	0.00	2.95	0	0

SPORTON International Inc.

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PCS 1900 CH810 Horizontal Polarization



: 03CH06-HY : 3m HF-HORN AH-118 HORIZONTAL 114cm 350deg Condition EUT 802.11b USB WLAN Dongle with GPRS modem

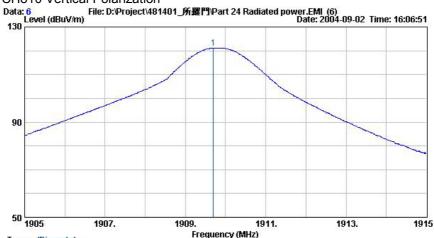
AC 120V/60Hz Model · SCWi375n

1 @

Memo : PCS CH810 Link mode

Freq	Level		Limit Line				Cable Loss	Ant Pos	Table Pos
MHz	dBu∜/m	dB	dBu∛/m	dBu∛	dB/m	dB	dB	cm	deg
1909.75	125, 24			94.68	27, 58	0.00	2.98	114	350

PCS 1900 CH810 Vertical Polarization



Trace: (Discrete)

Site Condition

: 03CH06-HY : 3m HF-HORN AH-118 VERTICAL 139cm 185deg EUT 802.11b USB WLAN Dongle with GPRS modem

Power Model : AC 120V/60Hz : SCWi375u

: PCS CH810 Link mode

	Freq	Level					Preamp Factor		Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBu₹	dB/m	dB	dB	cm	deg
1 @	1909.70	121.15			90.59	27.58	0.00	2.98	139	185

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Name of Test: Emission Masks (Occupied Bandwidth)

Specification: 47 CFR 2.1049(c)(1), 22

Test Equipment: As per attached page

Measurement Procedure

- 1. The EUT and test equipment were set up as shown on the following page with the Spectrum Analyzer connected.
- 2. For EUTs supporting digital modulation, the digital modulation mode was operated to its maximum extent.
- 3. The occupied bandwidth was measured with the Spetrum Analyzer controls set as shown on the test results.
- 4. Measurement Results: Attached

Tested By: Tim Kao

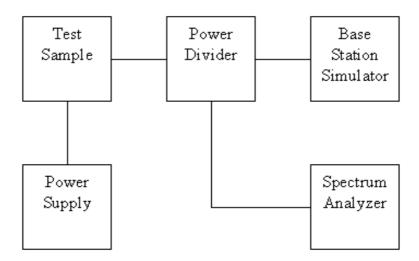
SCWI375U SPORTON International Inc. FCC ID TEL: 886-2-2696-2468 Page No. 21 of 66

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Transmitter Spurious Emission

Test A. Occupied Bandwidth (In-Band Spurious)

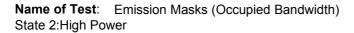
Test B. Out-of-Band Spurious

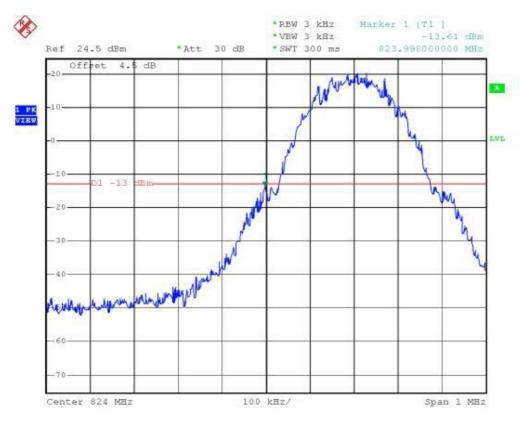


Asset	Model Name	S/N
Base Station Simulator Base Station Simulator Spectrum Analyzer	CMU200 E5515C FSP30	102278 GB43460754 838858/014
AC/DC Power Source	HPA-500W	HPA0100024

SPORTON International Inc.

SCWI375U FCC ID Page No. TEL: 886-2-2696-2468 22 of 66 FAX: 886-2-2696-2255 Issued Date Sep. 13, 2004





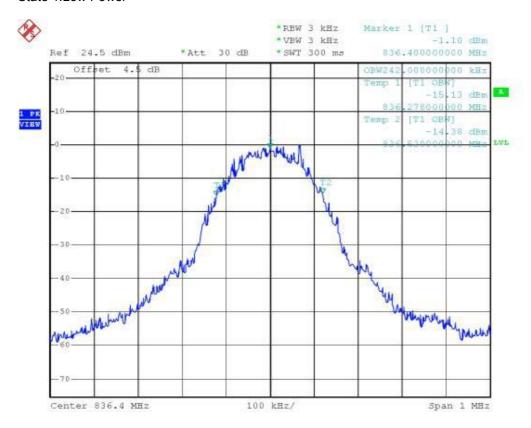
Date: 7.SEP.2004 09:49:13

Power: HIGH Modulation: GSM 850

LOWER BAND EDGE

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

Name of Test: Emission Masks (Occupied Bandwidth) State 1:Low Power



Date: 7.SEP.2004 09:51:52

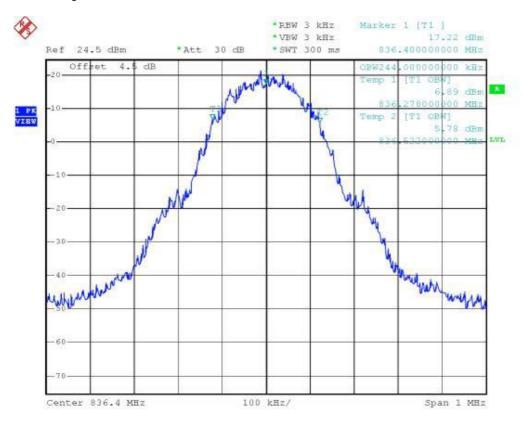
Power: LOW Modulation: GSM 850

99% BANDWIDTH

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID SCWI375U
Page No. 24 of 66
Issued Date Sep. 13, 30

Issued Date Sep. 13, 2004

Name of Test: Emission Masks (Occupied Bandwidth) State 2:High Power



Date: 7.SEP.2004 09:50:58

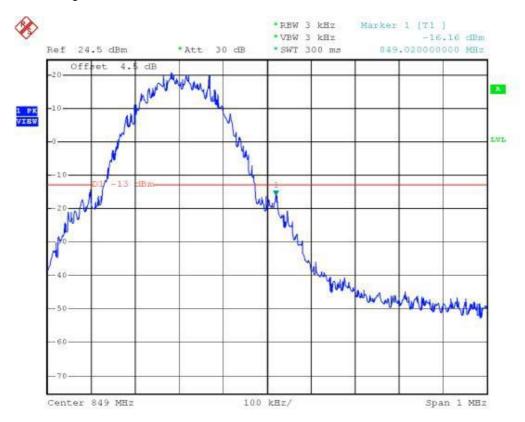
Power: HIGH Modulation: GSM 850

99% BANDWIDTH

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID SCWI375U Page No. 25 of 66

Issued Date Sep. 13, 2004

Name of Test: Emission Masks (Occupied Bandwidth) State 2:High Power



Date: 7.SEP.2004 09:49:54

Power: HIGH Modulation: GSM 850

UPPER BAND EDGE

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID SCWI375U Page No. 26 of 66 Issued Date Sep. 13, 2004

FCC TEST REPORT

Name of Test: Transmitter Conducted Measurements

Specification: 47 CFR 2.1051: Unwanted (spurious) Emissions

2.1049(c), 24.238(b): Occupied Bandwidth

24: Emissions at Band Edges

Test Equipment: As per attached page

Measurement Procedure

Report No.: F481401

- 1. The EUT and test equipment were set up as shown on the following page with the Spectrum Analyzer connected.
- 2. The low and high channels for all RF powers within the Transmitting frequency band were measured.
- 3. Measurement Results: Attached

Tested By: Tim Kao

SCWI375U **SPORTON International Inc.** FCC ID TEL: 886-2-2696-2468 Page No. 27 of 66

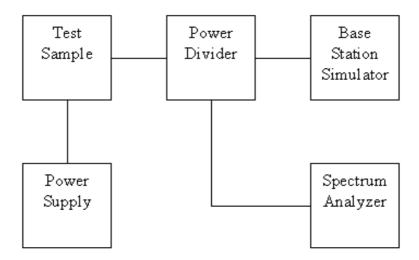
FAX: 886-2-2696-2255 Issued Date Sep. 13, 2004

Report No. : F481401

Transmitter Spurious Emission

Test A. Occupied Bandwidth (In-Band Spurious)

Test B. Out-of-Band Spurious

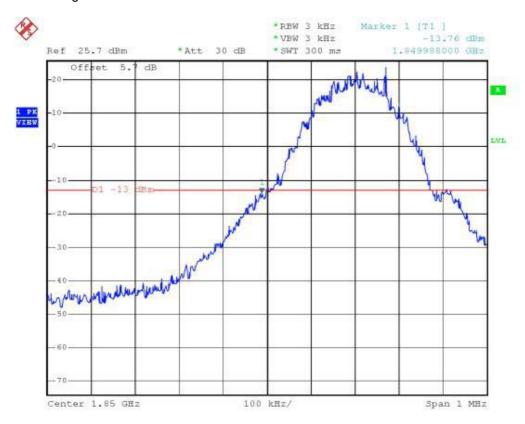


Asset	Model Name	S/N
Base Station Simulator	CMU200	102278
Base Station Simulator	E5515C	GB43460754
Spectrum Analyzer	FSP30	838858/014
AC/DC Power Source	HPA-500W	HPA0100024

SPORTON International Inc.

SCWI375U FCC ID TEL: 886-2-2696-2468 Page No. 28 of 66 FAX: 886-2-2696-2255 Issued Date Sep. 13, 2004

Name of Test: Emission Masks (Occupied Bandwidth) State 2:High Power



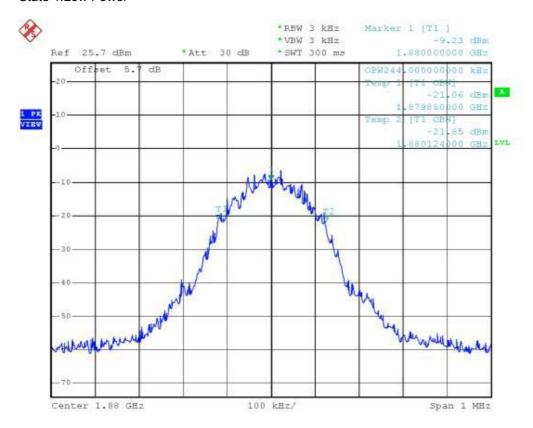
Date: 7.SEP.2004 09:41:09

Power: HIGH Modulation: PCS 1900

LOWER BAND EDGE

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

Name of Test: Emission Masks (Occupied Bandwidth) State 1:Low Power



Date: 7.SEP.2004 09:44:03

Power: LOW Modulation: PCS 1900

99% BANDWIDTH

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID SCWI375U Page No. 30 of 66 Issued Date Sep. 13, 2004