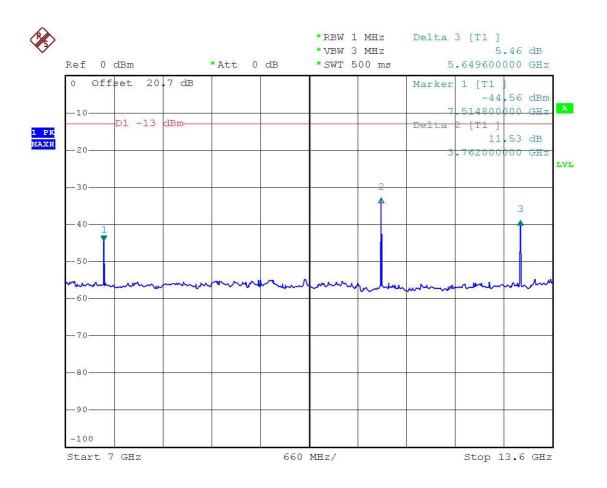
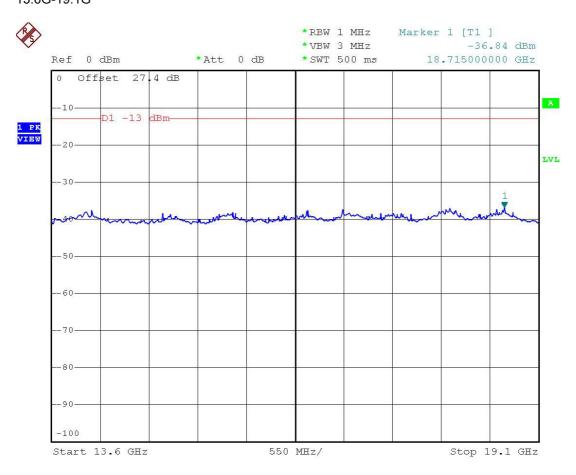
Name of Test: Conducted Spurious Emission

7G-13.6G



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

Name of Test: Conducted Spurious Emission 13.6G-19.1G



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FCC ID GKRTG7 Page No. 27 of 52

Report No. : F480206-01

GKRTG7

FCC ID

Name of Test: Field Strength of Spurious Radiation

Specification: 47 CFR 2.1053(a)

Guide: ANSI/TIA/EIA-603-1992/2001, Paragraph 1.2.12 and Table 16

Measurement Procedure

1.2.12.1 Definition: Radiated spurious emissions are emissions

from the equipment when transmitting into a non-radiating load on a frequency

or frequencies which are outside an occupied band sufficient to ensure

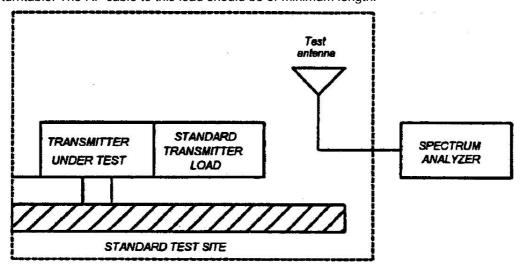
transmission of information of required quality for the class of communications

desired.

1.2.12.2 Method of Measurement

A) Connect the equipment as illustrated

- B) Adjust the spectrum analyzer for the following settings:
 - 1) Resolution Bandwidth 100 kHz (<1 GHZ), 1 MHZ (> 1GHz).
 - 2) Video Bandwidth ≥ 3 times Resolution Bandwidth
 - 3) Sweep Speed ≤2000 Hz/second
 - 4) Detector Mode = Mean or Average Power
- C) Place the transmitter to be tested on the turntable in the standard test site. If the antenna is detatchable, The transmitter is transmitting into a non-radiating load which is placed on the turntable. The RF cable to this load should be of minimum length.



SPORTON International Inc.

TEL: 886-2-2696-2468 Page No. 28 of 52 FAX: 886-2-2696-2255 Issued Date Aug. 30, 2004

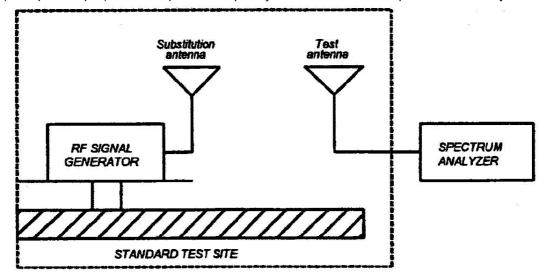
Report No.: F480206-01

GKRTG7

FCC ID

Name of Test: Field Strength of Spurious Radiation (Cont.)

- D) For each spurious measurement the test antenna should cover the measured frequency. Measurements shall be made from the lowest radio frequency generated in the equipment to the tenth harmonic of the carrier, except for the region close to the carrier equal to ± the test bandwidth (see section 1.3.4.4).
- E) For each spurious frequency, raise and lower the test antenna from 1 m to 4 m to obtain a maximum reading on the spectrum analyzer with the test antenna at horizontal polarity. Repeat this procedure to obtain the highest possible reading. Record this maximum reading.
- F) Repeat step E) for each spurious frequency with the test antenna polarized vertically.



- G) Reconnect the equipment as illustrated.
- H) Keep the spectrum analyzer adjusted as in step B).
- Remove the transmitter and replace it with a substitution antenna. The center of the substitution antenna should be approximately at the same location as the center of the transmitter. At lower frequencies, where the substitution antenna is very long, this will be impossible to achieve when the antenna is polarized vertically. In such case the lower end of the antenna should be 0.3 m above the ground.

SPORTON International Inc.

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FCC TEST REPORT

Name of Test: Field Strength of Spurious Radiation (Cont.)

- Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a non-radiating cable. With the antennas at both ends horizontally polarized and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.
- K) Repeat step J) with both antennas vertically polarized for each spurious frequency.
- L) Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps J) and K) by the power loss in the cable between the generator and the antenna and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna.

NOTE: It is permissible that other antennas provided can be referenced to a dipole.

Tested By:

Tim Kao

SPORTON International Inc.

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

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Report No.: F480206-01

Name of Test: Field Strength of Spurious Radiation

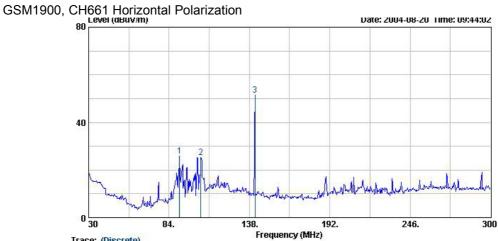
GSM 1900 (Channel 661)

GSM 1900	(Cha	annei 661)							
Freq MHz	Pol	Substitution Antenna Input Power (dBm)	Substitution Antenna Gain (dBi)	Et (dBuV/m)	Es (dBuV/m)	Et - Es (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
91.02	Н	-0.93	2.58	25.80	91.87	-66.07	-64.42	-13.0	-51.42
105.33	Н	-1.11	2.00	25.33	92.63	-67.30	-66.41	-13.0	-53.41
141.78	Н	-1.08	1.26	51.57	91.94	-40.37	-40.19	-13.0	-27.19
509.30	Н	-1.89	2.01	34.39	94.13	-59.74	-59.61	-13.0	-46.61
512.80	Н	-1.90	1.99	29.56	94.34	-64.78	-64.69	-13.0	-51.69
542.20	Н	-1.94	1.74	28.88	95.33	-66.45	-66.65	-13.0	-53.65
1452.00	Н	-3.36	6.30	48.28	101.94	-53.66	-50.72	-13.0	-37.72
2308.00	Н	-4.36	7.19	51.20	99.20	-48.00	-45.17	-13.0	-32.17
3758.00	Н	-5.25	7.45	79.03	99.07	-20.04	-17.84	-13.0	-4.84
5638.00	Н	-6.67	8.44	56.64	98.79	-42.15	-40.38	-13.0	-27.38
7518.00	Н	-8.44	8.52	58.37	94.67	-36.30	-36.22	-13.0	-23.22
9398.00	Н	-9.78	8.94	65.30	95.76	-30.46	-31.31	-13.0	-18.31
				T					
91.02	V	-0.93	2.58	28.19	91.87	-63.68	-62.03	-13.0	-49.03
141.78	V	-1.08	1.26	53.82	91.94	-38.12	-37.94	-13.0	-24.94
189.30	V	-1.19	1.45	19.07	90.40	-71.33	-71.07	-13.0	-58.07
506.50	V	-1.88	2.04	33.65	93.95	-60.30	-60.14	-13.0	-47.14
536.60	V	-1.93	1.79	29.02	95.25	-66.23	-66.38	-13.0	-53.38
545.70	V	-1.94	1.71	25.89	95.37	-69.48	-69.72	-13.0	-56.72
1452.00	V	-3.36	6.30	50.65	101.94	-51.29	-48.35	-13.0	-35.35
2308.00	V	-4.36	7.19	52.05	99.20	-47.15	-44.32	-13.0	-31.32
3758.00	V	-5.25	7.45	80.93	99.07	-18.14	-15.94	-13.0	-2.94
5638.00	V	-6.67	8.44	51.61	98.79	-47.18	-45.41	-13.0	-32.41
7518.00	V	-8.44	8.52	57.76	94.67	-36.91	-36.83	-13.0	-23.83
9398.00	V	-9.78	8.94	60.87	95.76	-34.89	-35.74	-13.0	-22.74

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID GKRTG7
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Radiated Scanned Data



Trace: (Discrete)

: 03CH06 : 3m BI LOG 2004 0629 HORIZONTAL 114cm 0deg : GSM/GPRS Tri Band Mobile Phone

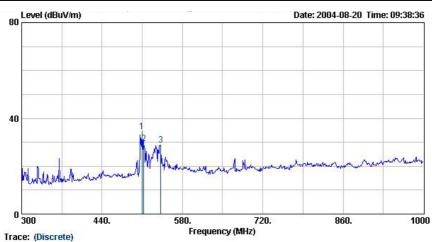
Condition EUT

Power Model 120Vac/60Hz

: TG7 : PCS Link Mode_CH661 Memo

	Ove Freq Limi					Preamp Factor			Ant Pos	Table Pos
	MHz	dB	dBu∛/m	dBu∛/m	dB/m	dB	dB		cm	deg
1 @ 2 @ 3 @	105.33		25.33		10.95	32. 23 32. 21 32. 27	0.91	Peak		

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID **GKRTG7** Page No. 32 of 52



 Site
 : 03CH06

 Condition
 : 3m BI LOG 2004 0629 HORIZONTAL 114cm 360deg

 EUT
 : GSM/GPRS Tri Band Mobile Phone

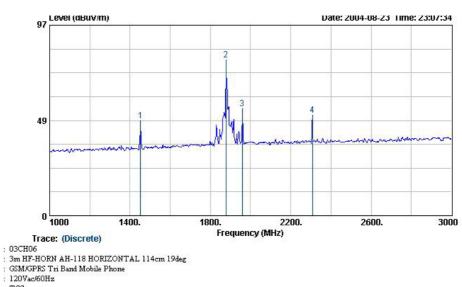
Power Model

: 120Vac/60Hz : TG7 : PCS Link Mode_CH661

	Freq	Over Freq Limit				Preamp Factor			Ant Pos	Table Pos
	MHz	dB	dBu∛/m	dBu∛/m	dB/m	dB	dB		ст	deg
1 @						31.47				
2@	512.80		29.56		17.08	31.49	2.12	Peak		
3 @	542, 20		28, 88		17.02	31.32	2.18	Peak	200	

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

FCC ID GKRTG7 Page No. 33 of 52 Issued Date Aug. 30, 2004



Condition EUT

Power Model Memo

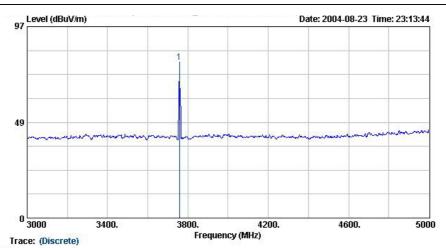
: TG7 : PCS Link Mode_CH661

	Freq	req Limit				Freamp Factor		Remark	Pos	Pos
	MHz	dB	dBu∜/m	dBu∛/m	dB/m	dB	dB		сп	deg
1 @ 2 @ 3 @ 4 @	1452.00 1878.00						$\frac{2.57}{2.93}$			===
3 @	1958.00		54.49		27, 75	44.46	3.02	Peak	2000	
4 @	2308.00		51.20		28.31	44.38	3.25	Peak		

Remark:

- 1. #2 Fundamental Signal
- 2. #3 BCCH from CMU200

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID GKRTG7 Page No. 34 of 52



| Site | 103CH06 | 03CH06 | 13m HF-HORN AH-118 HORIZONTAL 114cm 360deg | EUT | 15M/GPRS Tri Band Mobile Phone | 15M/GPRS Tri Band Mo

: 120Vac/60Hz : TG7

Power Model

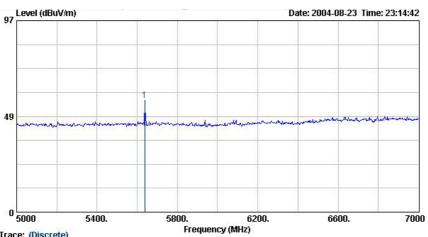
: PCS Link Mode_CH661 Memo

	Freq	Over Limit				Preamp Factor			Ant Pos	Table Pos
	MHz	dB	dBu∛/m	$\overline{\text{dBuV/m}}$	dB/m	dB	dB		сто	deg
1 @	3758 00		79 03		30, 26	44 75	4 22	Peak		

SPORTON International Inc.

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FCC ID



Power Model

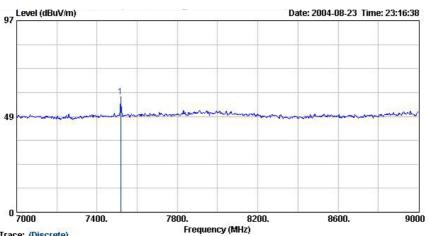
: 120Vac/60Hz : TG7 : PCS Link Mode_CH661

	Freq	Over Limit Level				Preamp Factor			Ant Pos	Table Pos
	MHz	dB	dBu∀/m	dBuV/m	dB/m	dB	dB		сп	deg
1 @	5638.00		56.64		34.01	46.55	5.35	Peak		

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FCC ID



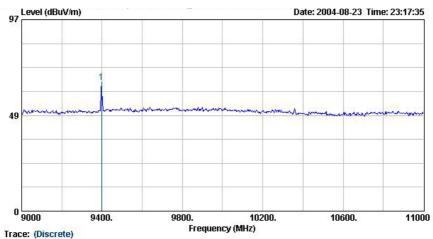
Power Model

: 120Vac/60Hz : TG7 : PCS Link Mode_CH661 Memo

	Freq	Over Freq Limit Level				Preamp Factor			Ant Pos	Table Pos
	MHz	dB	dBu∛/m	dBu¥/m	dB/m	dB	dB		сл	deg
l @	7518.00		58.37		36.03	46.19	6.19	Peak		0.00

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID GKRTG7 Page No. 37 of 52 Issued Date Aug. 30, 2004



Site Condition

: 03CH06 : 3m HF-HORN AH-110 110112011 AL 114cm Odeg : GSM/GPRS Tri Band Mobile Phone

EUT

Power Model : 120Vac/60Hz

: TG7 : PCS Link Mode_CH661 Memo

Freq	Over Limit				Factor			Ant Pos	Table Pos
MHz	dB	$\overline{dBu V/m}$	$\overline{\text{dBuV/m}}$	dB/m	dB	dB		сп	deg
9398, 00		65, 30		37, 79	44.62	7, 80	Peak		

Mark:

1 @

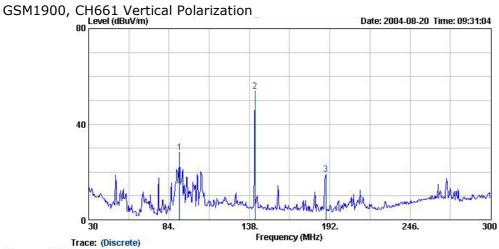
Frequency from 11000MHz to 19000MHz, the emission emitted by the EUT is too low to be measured.

SPORTON International Inc.

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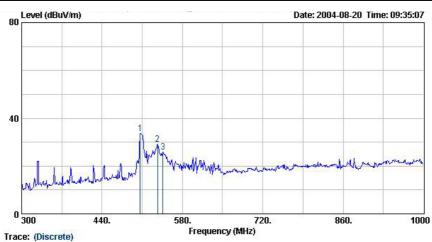
| Site | : 03CH06 | | : 3m Bl LOG 2004 0629 VERTICAL 114cm 360deg | EUT | : GSM/GPRS Tri Band Mobile Phone |

Power Model Memo $120 \mathrm{Vac}/60 \mathrm{Hz}$

: TG7 : PCS Link Mode_CH661

	Freq	Over Limit				Preamp Factor			Ant Pos	Table Pos
	MHz	dB	dBu∛/m	dBu∛/m	dB/m	dB	dB		СТ	deg
1 @ 2 @ 3 @	141.78		53.82		10.74	32. 23 32. 27	1.03	Peak		
3 @	189.30		19.07		8.30	31.95	1.21	Peak		

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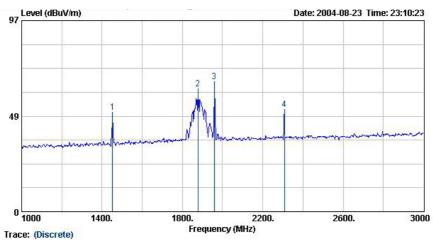
Power Model

: 120Vac/60Hz : TG7 : PCS Link Mode_CH661

	Freq	Over Limit				Preamp Factor			Ant Pos	Table Pos
	MHz	dB	dBu∜/m	$\overline{dBuV/m}$	dB/m	dB	dB		cm	deg
1 @ 2 @	506.50 536.60		33, 65 29, 02		17.20 16.67	$\frac{31.46}{31.33}$	$\frac{2.10}{2.17}$	Peak Peak	===	===
3 @	545, 70		25, 89		17, 65	31.37	2.19	Peak		

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Power Model : 120Vac/60Hz

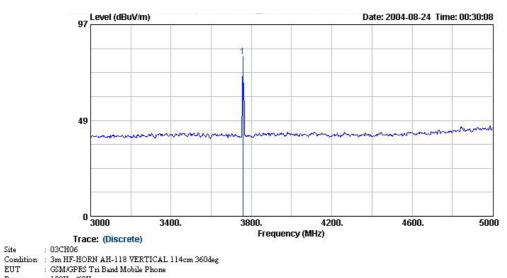
: TG7 : PCS Link Mode_CH661

	Freq	Over Freq Limit				Preamp Factor		Remark	Ant Pos	Table Pos
	MHz	dB	$\overline{\mathtt{d} \mathtt{BuV/m}}$	$\overline{\mathtt{dBuV/m}}$	dB/m	dB	dB		cm	deg
1 @ 2 @ 3 @ 4 @	1452.00 1878.00					44.04 44.40	$\frac{2.57}{2.93}$			
3 @ 4 @	1958. 00 2308. 00					$\frac{44.46}{44.38}$	3. 02 3. 25			

Remark:

- 1. #2 Fundamental Signal
- 2. #3 BCCH from CMU200

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID **GKRTG7** 41 of 52 Page No.



Power Model

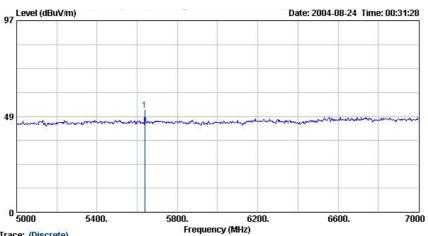
: 120Vac/60Hz : TG7 : PCS Link Mode_CH661 Memo

	Freq				LimitAntenna Preamp Line Factor Factor				Ant Pos	Table Pos
	MHz	dB	dBu∛/m	dBu∛/m	dB/m	dB	dB			deg
1 @	3758.00		80.93		30.26	44.75	4.22	Peak		0.00

SPORTON International Inc.

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FCC ID



Power Model

: 120Vac/60Hz : TG7 : PCS Link Mode_CH661 Memo

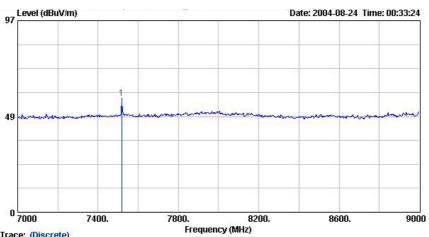
	Freq					Preamp Factor			Ant Pos	Table Pos
	MHz	dB	dBu∛/m	dBu¥/m	dB/m	dB	dB		ст	deg
1@	5638.00		51.61		34.01	46.55	5.35	Peak	0000	

SPORTON International Inc.

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FCC ID

FCC TEST REPORT



Power Model

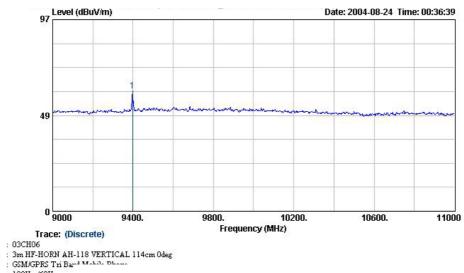
: 120Vac/60Hz : TG7 : PCS Link Mode_CH661 Memo

	Freq	Over Limit				Preamp Factor			Ant Pos	Table Pos
	MHz	dB	dBu∛/m	dBu∛/m	dB/m	dB	dB		сп	deg
l @	7518.00		57.76		36.03	46.19	6.19	Peak	555	0.00

SPORTON International Inc.

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FCC ID



Site Condition

Power Model

: 120Vac/60Hz : TG7 : PCS Link Mode_CH661 Memo

	Freq	Over Limit				Preamp Footor			Ant Pos	Table Pos
-	MHz	dB	dBu∛/m	dBu¥/m	dB/m	₫B	dB		сп	deg
	9398 00		60.87		37.79	44 62	7.80	Peak		

Mark:

10

Frequency from 11000MHz to 19000MHz, the emission emitted by the EUT is too low to be measured.

SPORTON International Inc.

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FCC ID

FCC TEST REPORT

Name of Test: Frequency Stability (Temperature Variation)

Specification: 47 CFR 2.1055(a)(1)

Test Conditions: As Indicated

Test Equipment: As per previous page

Measurement Procedure

Report No.: F480206-01

- 1. The EUT and test equipment were set up as shown on the following page.
- 2. With all power removed, the temperature was decreased to -30°C and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was noted within one minute.
- 3. With power OFF, the temperature was raised in 10°C steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change was noted within one minute.
- 4. The temperature tests were performed for the worst case.

5. Measurement Results: Attached

Tested By: Tim Kao

 SPORTON International Inc.
 FCC ID
 GKRTG7

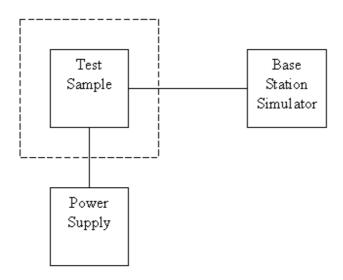
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 Issued Date
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Report No. : F480206-01

Transmitter Test Set-Up

Frequency Stability: Temperature Variation Frequency Stability: Voltage Variation



Asset	Model Name	S/N
Temperature & Humidity Controller	P-9000	612
AC/DC Power Source	HPA-500W	HPA0100024
Base Station Simulator	CMU200	102278
Base Station Simulator	E5515C	GB43460754

 SPORTON International Inc.
 FCC ID
 GKRTG7

 TEL: 886-2-2696-2468
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 Issued Date
 Avg. 30

 Name of Test: Frequency Stability (Temperature Variation)

GSM 1900 (Channel 661)

Temperature(°C)	Change, Hz	Change, ppm
-30	-128	-0.07
-20	-125	-0.07
-10	-100	-0.05
0	-112	-0.06
10	-98	-0.05
20	-106	-0.06
30	-93	-0.05
40	-96	-0.05
50	-41	-0.02

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

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Issued Date Aug. 30, 2004

FCC TEST REPORT

Name of Test: Frequency Stability (Voltage Variation)

Specification: 47 CFR 2.1055 (b)(1)

Test Equipment: As per previous page

Measurement Procedure

Report No.: F480206-01

- 1. The EUT was placed in a temperature chamber at 25±5°C and connected as for "Frequency Stability Temperature Variation" test.
- 2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 3. The variation in frequency was measured for the worst case.

Results: Frequency Stability (Voltage Variation)

GSM1900 (Channel 661)

Nominal Value (Voltage) = 3.6

Battery End Point (Voltage) = 3.25

Voltage(Volt)	Change, Hz	Change, ppm
3.7	-93	-0.05
BEP	-65	-0.03
4.255	-84	-0.04

Limit: Must remain within authorized frequency block.

Tested By:

Tim Kao

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 FAX: 886-2-2696-2255
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Antenna Factor & Cable Loss

Frequency (MHz)	Antenna Factor (dB)	Cable Loss (dB)	Frequency (MHz)	Antenna Factor (dB)	Cable Loss (dB)
30	15.35	4.50	1000	24.10	3.92
35	13.63	1.13	2000	27.40	5.66
40	11.11	1.18	3000	30.00	7.20
45	10.59	1.26	4000	32.60	9.36
50	6.47	1.31	5000	33.40	9.16
55	5.83	1.34	6000	34.20	10.70
60	5.18	1.43	7000	35.30	12.16
65	4.81	1.52	8000	36.90	13.12
70	4.43	1.56	9000	38.10	13.81
75	5.10	1.57	10000	39.00	14.83
80	5.91	1.60	11000	38.60	15.83
85	7.33	1.66	12000	39.50	17.11
90	8.74	1.75	13000	39.30	17.62
95	9.05	1.76	14000	41.60	18.37
100	9.36	1.83	15000	40.60	19.10
110	9.65	1.86	16000	37.20	19.72
120	9.97	1.92	17000	40.20	21.98
130	10.51	2.00	18000	48.90	21.22
140	10.32	2.11	19000	37.60	23.90
150	9.42	2.18	20000	37.30	24.07
160	8.09	2.22	21000	37.00	25.49
170	7.43	2.26	22000	38.00	24.92
180	7.60	2.31	23000	38.70	25.60
190	7.43	2.37	24000	38.60	25.70
200	7.26	2.43	25000	24.10	3.92
220 240	9.11 10.88	2.56 2.70	14000 15000	27.40 30.00	5.66 7.20
2 4 0 260	11.75	2.70	16000	32.60	9.36
280	11.75	2.93	17000	33.40	9.36 9.16
300	11.36	3.03	18000	34.20	10.70
320	12.03	3.13	19000	35.30	12.16
340	12.69	3.23	20000	36.90	13.12
360	13.33	3.32	21000	38.10	13.81
380	14.00	3.41	22000	39.00	14.83
400	14.63	3.48	23000	38.60	15.83
450	15.33	3.71	24000	39.50	17.11
500	16.03	3.85	25000	39.30	17.62
550	16.65	4.03			
600	17.29	4.32			
650	17.64	4.51			
700	18.00	4.54			
750	18.39	4.90			
800	18.79	5.04			
850	19.10	5.04			
900	19.42	5.20			
950	19.58	5.28			
1000	19.75	5.58			

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List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date.	Remark
Spectrum analyzer	R&S	FSP40	100057	9KHz-40GHz	Feb. 26, 2004	Feb. 26, 2005	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNE R	CBL6112B	2885	30MHz -2GHz	Dec. 18, 2003	Dec. 18, 2004	Radiation (03CH06-HY)
Horn Antenna	Com-Power	AH118	071025	1G-18G	Feb. 11, 2004	Feb. 11, 2005	Radiation (03CH06-HY)
PreAmplifier	Com-Power	PA-103	161055	1MHz - 1000MHz	Apr. 26, 2004	Apr. 26, 2005	Radiation (03CH06-HY)
HF Amplifier	MITEQ	AFS44	973248	0.1G - 26.5G	May 20, 2004	May 20, 2005	Radiation (03CH06-HY)

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Uncertainty of Test Site

Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz) (03CH03)

Contribution	Uncerta			
	dB	Probability Distribution	$u(x_i)$	
Receiver reading	0.41	Normal(k=2)	0.21	
Antenna factor calibration	0.83	Normal(k=2)	0.42	
Cable loss calibration	0.25	Normal(k=2)	0.13	
Pre Amplifier Gain calibration	0.27	Normal(k=2)	0.14	
RCV/SPA specification	2.50	Rectangular	0.72	
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29	
Site imperfection	1.43	Rectangular	0.83	
Mismatch Receiver VSWR $\Gamma 1=0.20$ Antenna VSWR $\Gamma 2=0.23$ Uncertainty= $20\log(1-\Gamma 1*\Gamma 2)$	+0.39/-0.41	U-shaped	0.28	
combined standard uncertainty Uc(y)	1.27			
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.54			

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Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Contribution	Uncerta	ainty of X _i	$u(x_i)$	$Ci*u(x_i)$		
	dB	Probability Distribution	$u(x_i)$	Ci		
Receiver reading	±0.10	Normal(k=1)	0.10	1	0.10	
Antenna factor calibration	±1.70	Normal(k=2)	0.85	1	0.85	
Cable loss calibration	±0.50	Normal(k=2)	0.25	1	0.25	
Receiver Correction	±2.00	Rectangular	1.15	1	1.15	
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87	
Site imperfection	±2.80	Triangular	1.14	1	1.14	
Mismatch Receiver VSWR Γ 1= 0.197 Antenna VSWR Γ 2= 0.194 Uncertainty=20log(1- Γ 1* Γ 2* Γ 3)	+0.34/-0.35	U-shaped	0.244	1	0.244	
Combined standard uncertainty Uc(y)	2.36					
Measuring uncertainty for a level of confidence of 95% U=2Ue(y)			4.72			

 $U = \sqrt{\{(1/2)^2 + (0.3/2)^2 + (2^2 + 0.5^2 + 2^2 + 0.25^2 + 2^2)/3 + (0.54)^2/2\}} = 2.2 \quad \text{for 10m test distance}$ $U = \sqrt{\{(1/2)^2 + (0.3/2)^2 + (2^2 + 3^2 + 2^2 + 0.25^2 + 2^2)/3 + (0.54)^2/2\}} = 2.7 \quad \text{for 3m test distance}$

END OF TEST REPORT

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