

Report No.: ER/2008/10026 Issue Date: Feb. 29, 2008

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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H and PART 24 SUBPART E

OF

Product Name: GSM 850/PCS 1900 Dual-band mobile phone

Brand Name: EMPORIA

Model Name: V100

FCC ID: VZN-V100

Report No.: ER/2008/10026

Issue Date: Feb. 29, 2008

FCC Rule Part: 2,22H & 24E

Prepared for EMPORIA TELECOM PROD.- U. VER-

TRIEBSGMBH & CO.KG

Industriezeile 36 - 4020 Linz - Austria

Prepared by SGS Taiwan Ltd.

Electronics & Communication Laboratory

No. 134, Wu Kung Rd., Wuku Industrial

Zone, Taipei County, Taiwan.

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VERIFICATION OF COMPLIANCE

Applicant: EMPORIA TELECOM PROD.- U. VERTRIEBSGMBH & CO.KG

Industriezeile 36 - 4020 Linz - Austria

Product Name: GSM 850/PCS 1900 Dual-band mobile phone

FCC ID Number: VZN-V100

Brand Name: N/A

Model No.: V100

Model Difference: N/A

File Number: ER/2008/10026

Date of test: Jan. 12, 2008 ~ Feb. 29, 2008

Date of EUT Received: Jan. 11, 2008

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-B-2002 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule FCC PART 22 subpart H and FCC PART 24 subpart E.

The test results of this report relate only to the tested sample identified in this report.

Test By:	Bondi Jin	Date	Feb. 29, 2008
CS.	Bondi Liu / Engineer		cha
Prepared By:	Alex Hsieh	Date	Feb. 29, 2008
	Alex Hsieh / Sr. Engineer		
Approved By	Timent Su	Date	Feb. 29, 2008
_	Vincent Su / Manager		

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Version

Version No.	Date
00	Jan. 21, 2008
01	Feb. 13, 2008
02	Feb. 29, 2008

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1. GENERAL INFORMATION

Product Description

1 Toduct Description				
Product Name:	GSM 850/PCS 1900 Dual-band mobile phone			
Brand Name:	EMPORIA			
Model Name:	V100			
Model Difference:	N/A			
Simple Hands-Free (SHF):	N/A			
	3.7 Vdc re-charg	geable battery or 6Vdc by AC/DC power adapter		
Power Supply	Battery: Mode AK-V100, Supplier: EMPORIA			
	Adapter:	Mode :ACW004B-06U, Supplier: SUNFONE		

GSM

	GSM/GPRS 850	824 MHz- 849MHz	33 dBm
Cellular Phone Standards Frequency Range and	EDGE 850	824 MHz- 849MHz	27 dBm
Power	GSM/GPRS 1900	1850MHz – 1910MHz	30 dBm
	EDGE 1900	1850MHz – 1910MHz	26 dBm
Type of Emission	GSM: 300KGXW		
IMEI	00000000000		

This test report applies for GSM 850, GSM 1900.

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Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: VZN-V100 filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

Test Methodology

Both conducted and radiated testing were performed according to the procedures document on chapter 13 of ANSI C63.4 (2003) and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-1

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

Special Accessories

Not available for this EUT intended for grant.

Equipment Modifications

Not available for this EUT intended for grant.

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SYSTEM TEST CONFIGURATION

EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency which was for the purpose of the measurements.

Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 1.0 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.4-2003.

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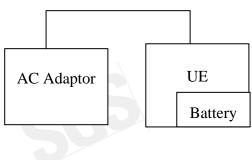


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Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel)



Remote Side

CMU200

Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)		
§22.913(a)	RF Power Output	Compliant
§24.232(a)		
§2.1046(a)		
§22.913(a)	ERP/ EIRP measurement	Compliant
§24.232(a)		
§2.1049(h)	99% Occupied Bandwidth	Compliant
§2.1051	Out of Band Emissions at Antenna	
§22.917(a)	Terminals and	Compliant
§24.238(a)	Band Edge	
§2.1053		
§22.917(a)	Field Strength of Spurious Radiation	Compliant
§24.238(a)		
§2.1055(a)(1)(b)	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(1)(2)	Frequency Stability vs. Voltage	Compliant
§15.107;§15.207	AC Power Line Conducted Emission	Compliant

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

EUT staying in continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing.

The field strength of spurious radiation emission was measured as EUT stand-up position (E1 mode) and lie down position (E1, E2 mode) for both GSM/GPRS with all power adaptors, earphone. Therefore the worst-case of E2 position for GSM 850 band, E2 position for GSM 1900 band were reported.

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5. RF POWER OUTPUT MEASUREMENT

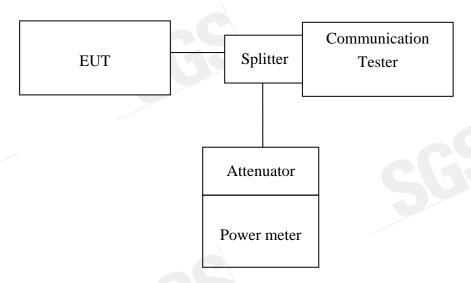
Standard Applicable

According to FCC §2.1046.

FCC 22.913(a) Mobile station are limited to 7W.

FCC 24.232(b) Mobile station are limited to 2W.

Test Set-up:



Note: Measurement setup for testing on Antenna connector

Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

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Measurement Equipment Used:

	Conducted Emission Test Site								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.				
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/27/2008				
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008				
Spectrum Analyzer	R&S	FSP 40	100034	01/05/2007	01/04/2008				
Communication Test	R&S	SMU200	N/A	N/A	N/A				
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008				
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008				
Temperature Chamber	TERCHY	MHG-120LF	911009	04/26/2007	04/25/2008				
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A				
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2007	07/04/2008				
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2007	07/04/2008				
Splitter	Agilent	11636B	51728	07/05/2007	07/04/2008				
DC Power Supply	Agilent	6038A	2929A-07548	06/27/2007	06/26/2008				

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Measurement Result

EUT Mode	Frequency (MHz)	СН	Power meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
	824.20	128	32.13	0.00	32.13
GSM 850	836.60	190	32.23	0.00	32.23
	848.80	251	32.27	0.00	32.27

EUT Mode	Frequency (MHz)	СН	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
\	1850.20	512	29.6	0.00	29.60
PCS 1900	1880.00	661	29.5	0.00	29.50
	1909.80	810	29.31	0.00	29.31

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6. ERP, EIRP MEASUREMENT

Standard Applicable

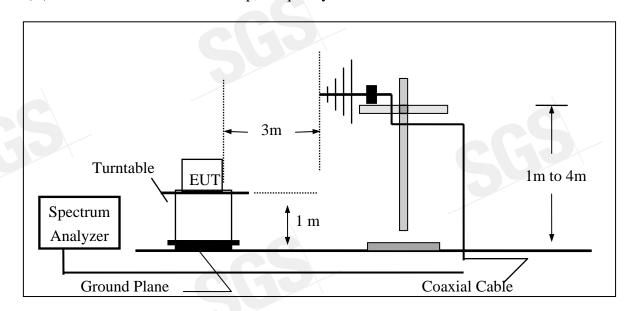
According to FCC §2.1046

FCC 22.913(a) Mobile station are limited to 7W ERP.

FCC 24.232(b) Mobile station are limited to 2W EIRP.

Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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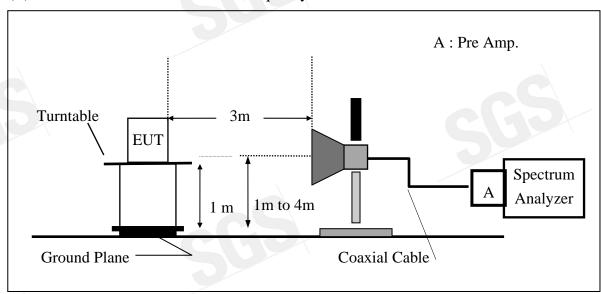
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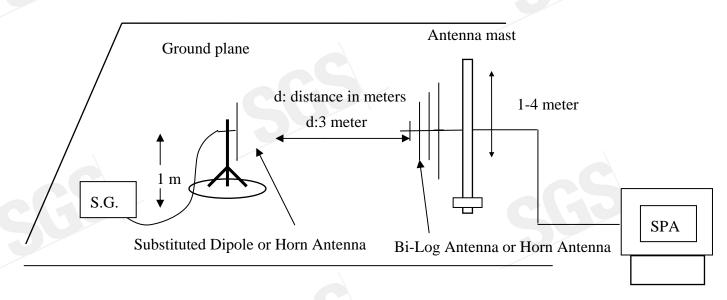
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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Measurement Procedure

The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1850.2 - 1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

ERP = S.G. output (dBm) + Antenna Gain (dBd) - Cable Loss (dB)

EIRP = S.G. output (dBm) + Antenna Gain <math>(dBi) - Cable Loss (dB)

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Measurement Equipment Used:

FOLIDMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
EQUIPMENT	WIFK				CAL DUE.
TYPE	A ailant	NUMBER E4446A	NUMBER MY43360126	CAL. 04/27/2007	04/26/2008
Spectrum Analyzer	Agilent				
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/10/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Bi-log Antenna	SCHWAZBECK	VULB9160	3224	11/14/2007	11/13/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	08/16/2007	08/15/2008
Pre-Amplifier	НР	8447D	2944A09469	07/19/2007	07/18/2008
Pre-Amplifier	HP	8494B	3008A00578	02/26/2007	02/25/2008
Signal Generator	R&S	SMR40	100210	02/09/2007	02/10/2008
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2007	10/08/2008
Site NSA	SGS	966 chamber	N/A	11/17/2007	11/16/2008
Attenuator	Mini-Circult	BW-S10W5	N/A	09/23/2007	09/22/2008
Dipole Antenna	SCHWAZBECK	VHAP	908/909	06/09/2007	06/10/2008
Dipole Antenna	SCHWAZBECK	UHAP	891/892	06/09/2007	06/10/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	N/A	08/16/2007	08/15/2008

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Measurement Result

EUT Mode	Frequency (MHz)	СН	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
			Н	V	123.81	36.49	-7.87	3.64	24.97	38.45
				Н	128.52	40.86	-7.87	3.64	29.35	38.45
	824.20	128	E1	V	126.68	39.36	-7.87	3.64	27.84	38.45
	024.20	120	151	Н	127.28	39.62	-7.87	3.64	28.11	38.45
			E2	V	126.41	39.09	-7.87	3.64	27.57	38.45
				Н	131.59	43.93	-7.87	3.64	32.42	38.45
	836.60 190		Н	V	124.72	37.69	-7.88	3.70	26.12	38.45
		190		Н	129.26	41.92	-7.88	3.70	30.35	38.45
GSM 850			E1	V	128.66	41.63	-7.88	3.70	30.06	38.45
GSW 650	030.00	170	L1	Н	128.65	41.31	-7.88	3.70	29.74	m) (dBm) 97 38.45 35 38.45 38.45 31 38.45 31 38.45 31 38.45 32 38.45 33 38.45 34 38.45 35 38.45 36 38.45 36 38.45 37 38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45
			E2	V	130.60	43.57	-7.88	3.70	32.00	
			E2	Н	129.60	42.26	-7.88	3.70	30.69	38.45
			Н	V	125.39	38.65	-7.88	3.75	27.02	38.45
			11	Н	129.80	42.78	-7.88	3.75	31.15	38.45
	848.80	251	251 E1	V	130.60	43.86	-7.88	3.75	32.23	38.45
	0-0.00	231		Н	129.60	42.58	-7.88	3.75	30.95	38.45
			E2	V	126.02	39.28	-7.88	3.75	27.65	38.45
			کئا	Н	132.05	45.03	-7.88	3.75	33.40	38.45

Remark:

(1) The RBW, VBW of SPA for frequency

Below 1GHz was RBW=100 KHz, VBW=300KHz,

Above 1GHz was RBW= 1MHz, VBW= 3MHz

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Measurement Result

EUT Mode	Frequency (MHz)	СН	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
		512	Н	V	120.44	13.48	9.90	5.41	17.97	33.00
				Н	124.50	17.61	9.90	5.41	22.10	33.00
	1850.20		E1	V	120.72	13.76	9.90	5.41	18.25	33.00
	1630.20	312	EI	Н	123.16	16.27	9.90	5.41	20.76	33.00
			E2	V	124.89	17.93	9.90	5.41	22.42	33.00
				Н	128.25	21.36	9.90	5.84	25.42	33.00
	1880.00 661		Н	V	122.71	15.76	9.99	5.46	20.29	33.00
		661		Н	123.16	16.29	9.99	5.46	20.82	33.00
PCS 1900			E1	V	124.34	17.39	9.99	5.46	21.92	33.00
1 CS 1900	1000.00	001	L1	Н	126.48	19.61	9.99	5.46	24.14	(dBm) (33.00 (33
			E2	V	126.33	19.38	9.99	5.46	23.91	
			EZ	Н	129.35	22.48	9.99	5.46	27.01	33.00
			Н	V	122.29	15.35	10.08	5.51	19.92	33.00
			11	Н	125.70	18.85	10.08	5.51	23.41	33.00
	1909.80	810	E1	V	123.08	16.14	10.08	5.51	20.71	33.00
	1707.00	010	EI	Н	125.87	19.02	10.08	5.51	23.58	33.00 33.00 33.00 33.00 33.00 33.00 33.00 33.00 33.00 33.00 33.00 33.00 33.00 33.00 33.00
			E2	V	125.48	18.54	10.08	5.51	23.11	33.00
			152	Н	128.37	21.52	10.08	5.51	26.08	33.00

Remark:

(1) The RBW, VBW of SPA for frequency

Below 1GHz was RBW=100 KHz, VBW=300KHz,

Above 1GHz was RBW= 1MHz, VBW= 3MHz

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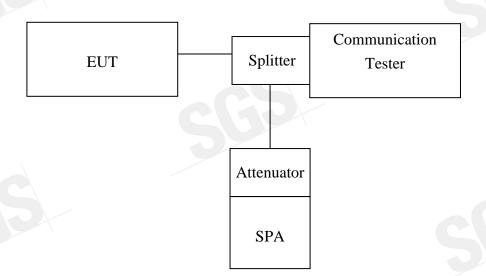
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99% OCCUPIED BANDWIDTH MEASUREMENT

Standard Applicable

According to §FCC 2.1049.

Test Set-up:



Note: Measurement setup for testing on Antenna connector

Measurement Procedure

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW (10/30KHz) was set to about 1% of emission BW, VBW= 3 times RBW(30/100KHz), -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

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Measurement Equipment Used:

Conducted Emission Test Site								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/27/2008			
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008			
Spectrum Analyzer	R&S	FSP 40	100034	01/05/2007	01/04/2008			
Communication Test	R&S	SMU200	N/A	N/A	N/A			
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008			
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008			
Temperature Chamber	TERCHY	MHG-120LF	911009	04/26/2007	04/25/2008			
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A			
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2007	07/04/2008			
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2007	07/04/2008			
Splitter Agilent		11636B	51728	07/05/2007	07/04/2008			
DC Power Supply	Agilent	6038A	2929A-07548	06/27/2007	06/26/2008			

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Measurement Result:.

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)	
	824.20	128	0.2431	
GSM 850	836.60	190	0.2444	
	848.80	251	0.2491	

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)	
	1850.20	512	0.2446	
PCS 1900	1880.00	661	0.2455	
	1909.80	810	0.2420	

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Figure 7-1: GSM Channel Low

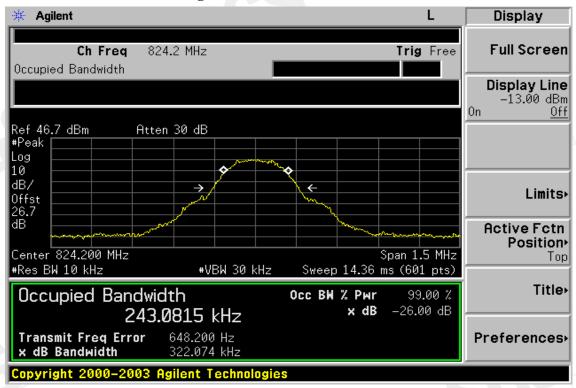
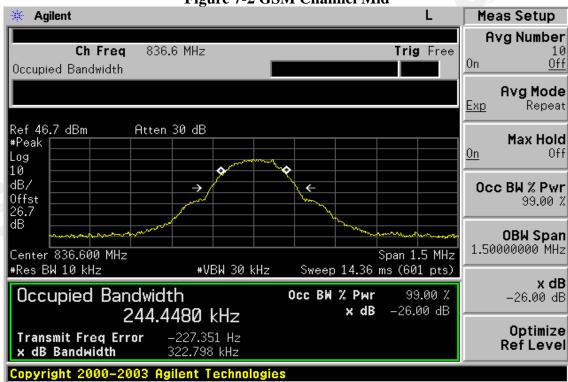


Figure 7-2 GSM Channel Mid



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Figure 7-3: GSM Channel High

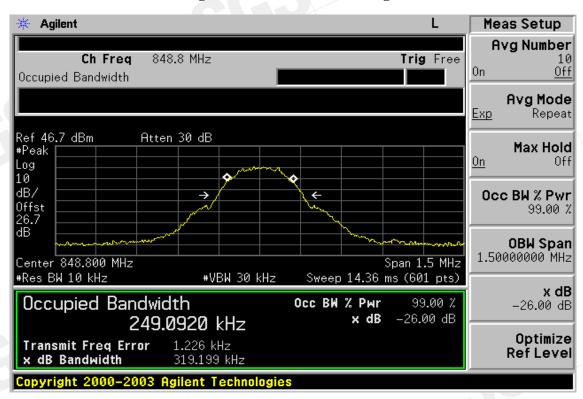
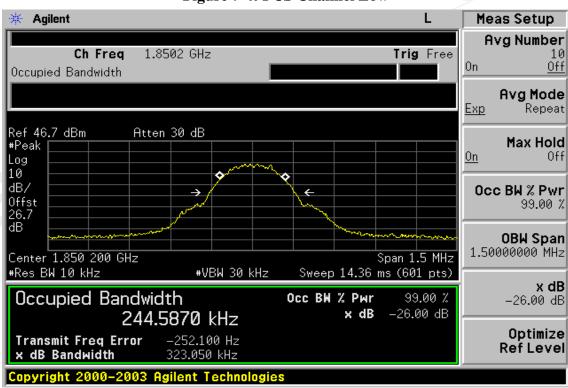


Figure 7-4: PCS Channel Low



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Figure 7-5 PCS Channel Mid

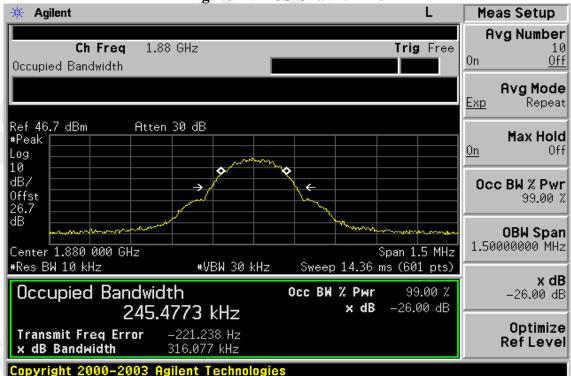
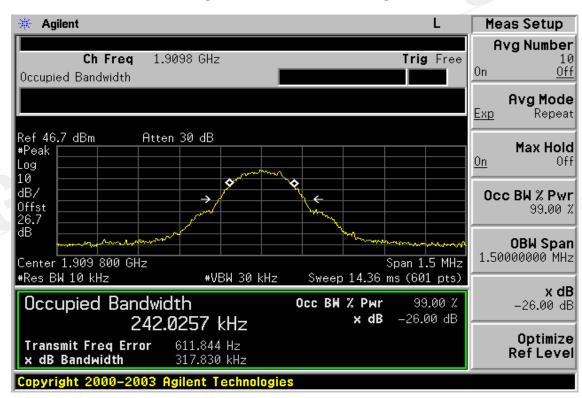


Figure 7-6: PCS Channel High



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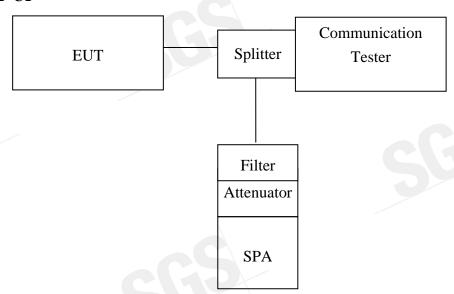
7. OUT OF BAND EMISSION AT ANTENNA TERMINALS

Standard Applicable

According to FCC §2.1051.

FCC §22.917(a),§24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

Test SET-UP



Note: Measurement setup for testing on Antenna connector

Measurement Procedure

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10 th harmonic. Limit = -13dBm

Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

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Measurement Equipment Used:

Conducted Emission Test Site								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/27/2008			
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008			
Spectrum Analyzer	R&S	FSP 40	100034	01/05/2007	01/04/2008			
Communication Test	R&S	SMU200	N/A	N/A	N/A			
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008			
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008			
Temperature Chamber	TERCHY	MHG-120LF	911009	04/26/2007	04/25/2008			
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A			
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2007	07/04/2008			
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2007	07/04/2008			
Splitter	Agilent	11636B	51728	07/05/2007	07/04/2008			
DC Power Supply	Agilent	6038A	2929A-07548	06/27/2007	06/26/2008			

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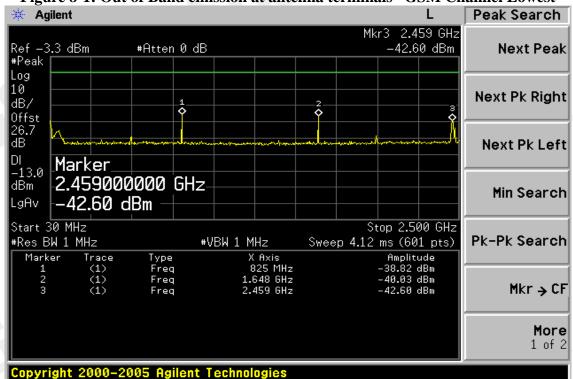


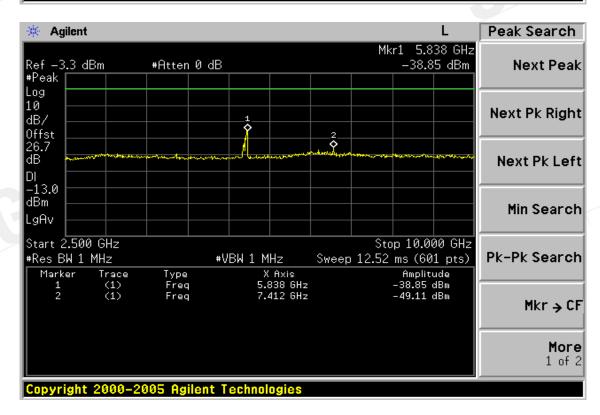
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Measurement Result

Figure 8-1: Out of Band emission at antenna terminals- GSM Channel Lowest





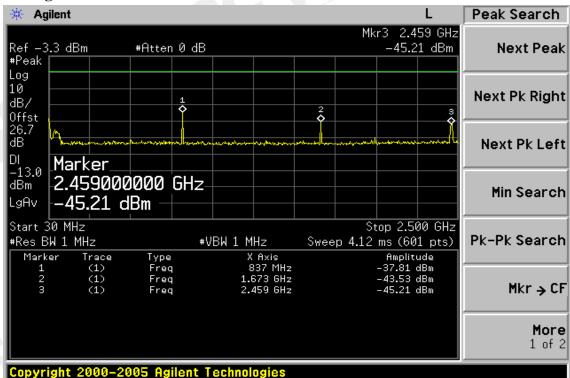
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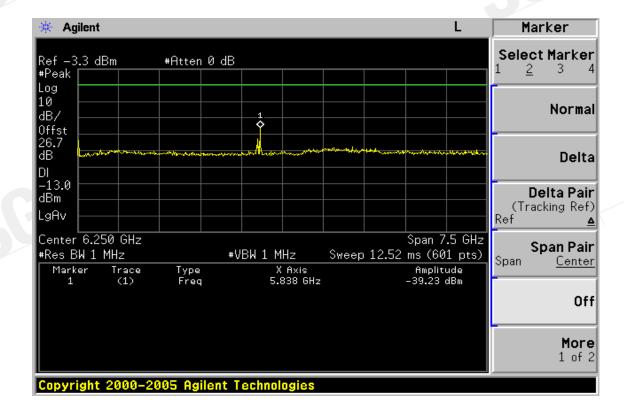


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Figure 8-2: Out of Band emission at antenna terminals –GSM Channel Mid





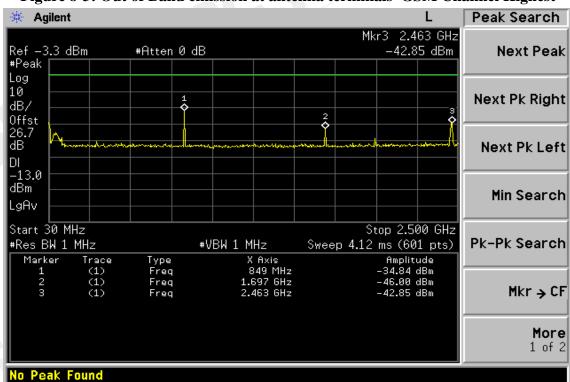
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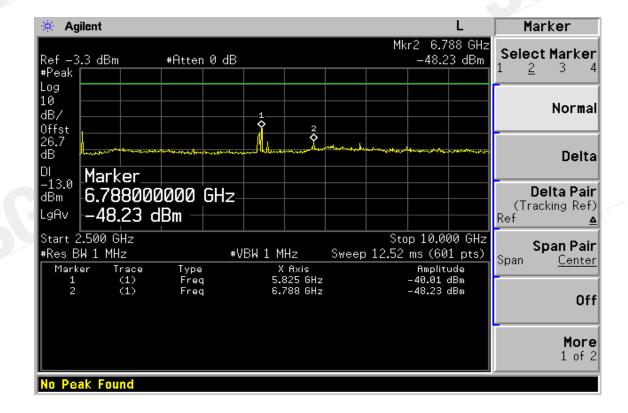


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Figure 8-3: Out of Band emission at antenna terminals-GSM Channel Highest





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Figure 8-4: Bad edge emission at antenna terminals – GSM Channel Lowest

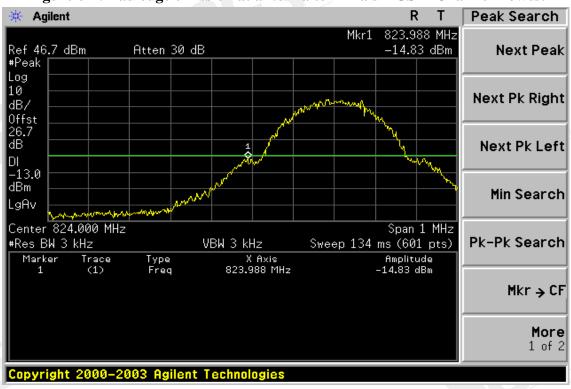


Figure 8-5: Band edge emission at antenna terminals – GSM Channel Highest



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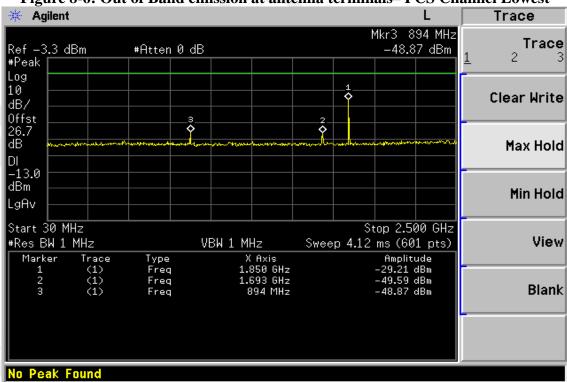
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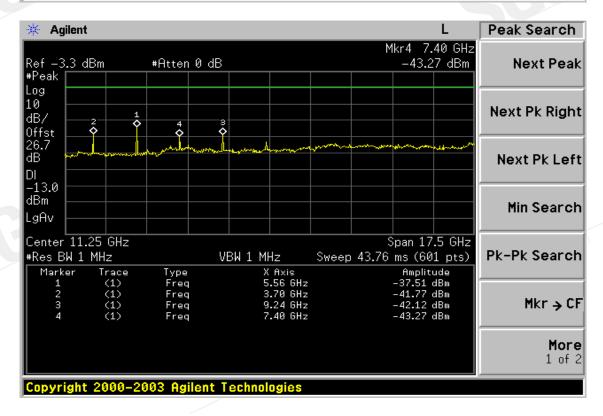


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Figure 8-6: Out of Band emission at antenna terminals—PCS Channel Lowest





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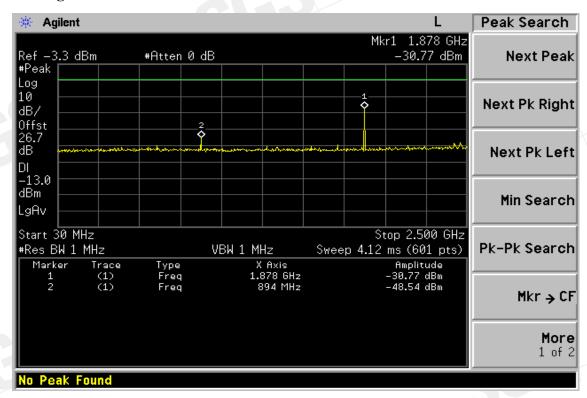
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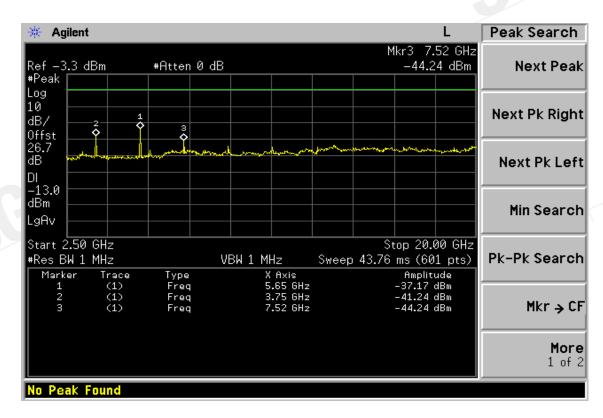


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Figure 8-7: Out of Band emission at antenna terminals –PCS Channel Mid



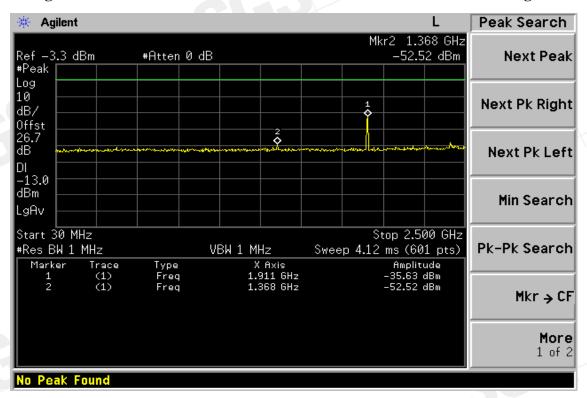


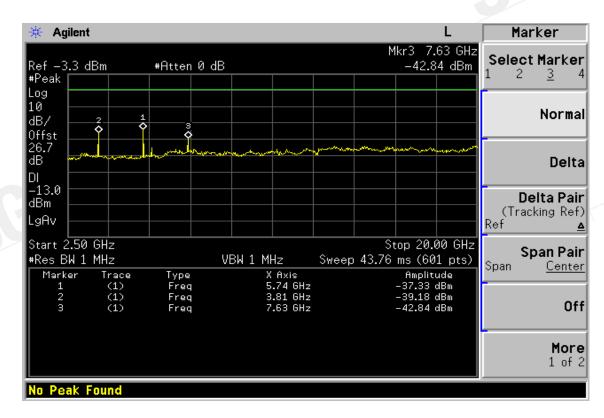


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Figure 8-8: Out of Band emission at antenna terminals-PCS Channel Highest





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Figure 8-9: Bad edge emission at antenna terminals – PCS Channel Lowest

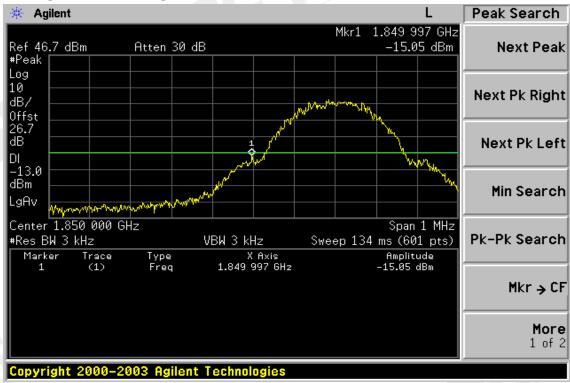
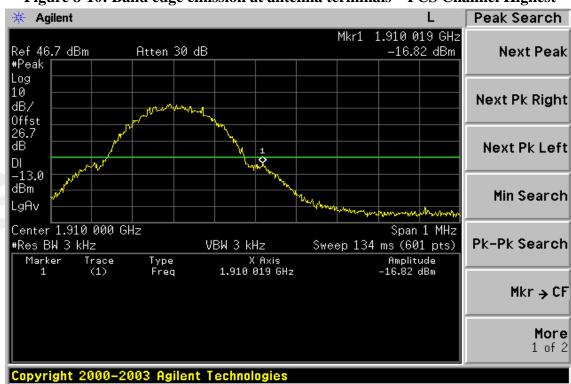


Figure 8-10: Band edge emission at antenna terminals – PCS Channel Highest



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8. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

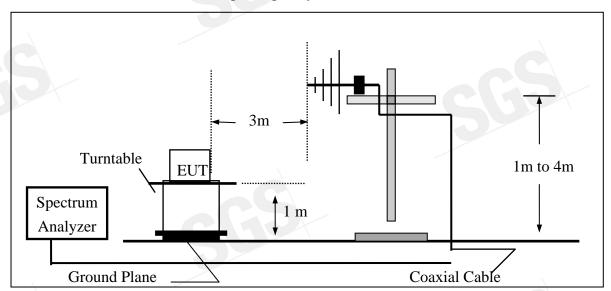
Standard Applicable

According to FCC §2.1053,

FCC §22.917(a),§24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

EUT Setup (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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台灣檢驗科技股份有限公司

SGS Taiwan Ltd.

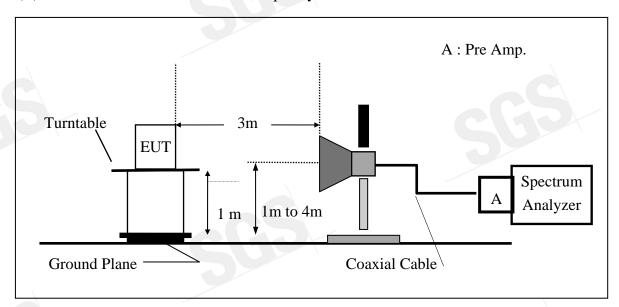
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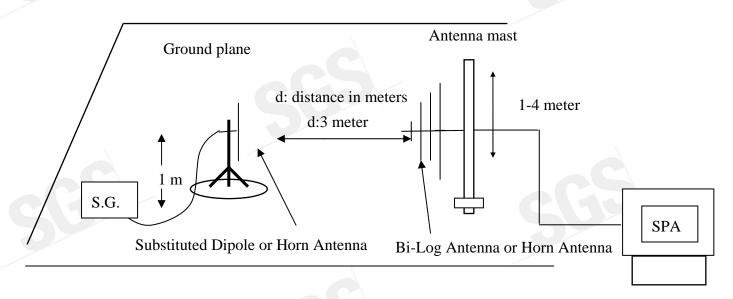
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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Measurement Procedure

The EUT was placed on a non-conductive, The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission were identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

EIRP = S.G. output (dBm) + Antenna Gain(dBi) – Cable Loss (dB)

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Measurement Equipment Used:

Measurement Eq	uipinent Oseu.				
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/26/2008
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Bi-log Antenna	SCHWAZBECK	VULB9160	3224	11/14/2007	11/13/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	08/16/2007	08/15/2008
Pre-Amplifier	НР	8447D	2944A09469	07/19/2007	07/18/2008
Pre-Amplifier	НР	8494B	3008A00578	02/26/2007	02/25/2008
Signal Generator	R&S	SMR40	100210	02/09/2007	02/10/2008
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2007	10/08/2008
Site NSA	SGS	966 chamber	N/A	11/17/2007	11/16/2008
Attenuator	Mini-Circult	BW-S10W5	N/A	09/23/2007	09/22/2008
Dipole Antenna	SCHWAZBECK	VHAP	908/909	06/09/2007	06/10/2008
Dipole Antenna	SCHWAZBECK	UHAP	891/892	06/09/2007	06/10/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	N/A	08/16/2007	08/15/2008
	1				1

Measurement Result

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Low E2 Mode Test Date: Dec. 28, 2007

Fundamental Frequency : 824.20 MHz Test By: Bondi Temperature : 25°C Pol: Ver

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
153.19	32.97	V	-64.93	-7.80	1.47	-74.20	-13.00	-61.20
436.43	33.87	V	-61.14	-7.69	2.52	-71.35	-13.00	-58.35
460.68	33.32	V	-61.30	-7.70	2.60	-71.60	-13.00	-58.60
824.00	74.22	V	-13.11	-7.87	3.64	-24.63	-13.00	-11.63
1648.40	43.26	V	-63.78	9.29	5.06	-59.55	-13.00	-46.55
2472.60	42.60	V	-61.46	10.08	6.30	-57.69	-13.00	-44.69
3296.80		V		12.17	7.26		-13.00	\
4121.00		V		12.61	8.33		-13.00	
4945.20		V		12.65	9.19		-13.00	
5769.40	39.44	V	-55.15	13.55	9.80	-51.40	-13.00	-38.40
6593.60	54.27	V	-35.46	12.05	10.61	-34.03	-13.00	-21.03
7417.80		V		11.49	11.28		-13.00	
8242.00		V		11.48	12.26		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
\	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) Cable loss (dB)

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Low E2 Mode Test Date: Dec. 28, 2007

Fundamental Frequency : 824.20 MHz Test By: Bondi Temperature : 25°C Pol: Hor

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
101.78	42.78	Н	-60.26	-7.76	1.23	-69.24	-13.00	-56.24
363.68	34.79	Н	-62.15	-7.65	2.46	-72.26	-13.00	-59.26
436.43	36.07	Н	-59.59	-7.69	2.52	-69.80	-13.00	-56.80
824.00	78.04	Н	-9.62	-7.87	3.64	-21.14	-13.00	-8.14
1648.40	48.49	Н	-58.52	9.29	5.06	-54.29	-13.00	-41.29
2472.60	41.57	Н	-62.49	10.08	6.30	-58.71	-13.00	-45.71
3296.80	40.43	Н	-61.93	12.17	7.26	-57.02	-13.00	-44.02
4121.00		Н		12.61	8.33		-13.00	
4945.20		Н		12.65	9.19		-13.00	
5769.40		Н		13.55	9.80		-13.00	
6593.60	49.57	Н	-40.33	12.05	10.61	-38.89	-13.00	-25.89
7417.80		Н		11.49	11.28		-13.00	
8242.00		Н		11.48	12.26		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
\	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) Cable loss (dB)

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Mid E2 Mode Test Date: Dec. 28, 2007

Fundamental Frequency : 836.60 MHz Test By: Bondi Temperature : 25° C Pol: Ver

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
101.78	47.58	V	-55.90	-7.76	1.23	-64.89	-13.00	-51.89
436.43	33.45	V	-61.56	-7.69	2.52	-71.77	-13.00	-58.77
460.68	33.52	V	-61.10	-7.70	2.60	-71.40	-13.00	-58.40
1673.20	46.35	V	-60.68	9.36	5.10	-56.42	-13.00	-43.42
2509.80	45.62	V	-58.26	10.09	6.35	-54.52	-13.00	-41.52
3346.40		V		12.28	7.29		-13.00	
4183.00		V		12.62	8.40		-13.00	\
5019.60		V		12.67	9.26		-13.00	
5856.20		V		13.68	9.85		-13.00	
6692.80	47.32	V	-41.80	11.95	10.74	-40.59	-13.00	-27.59
7529.40		V		11.45	11.35		-13.00	
8366.00		V		11.59	12.43		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belongs to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) Cable loss (dB)

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Mid E2 Mode Test Date: Dec. 28, 2007

Fundamental Frequency : $836.60 \, \text{MHz}$ Test By: Bondi Temperature : $25 \, ^{\circ} \! \text{C}$ Pol: Hor

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
101.78	41.83	Н	-61.21	-7.76	1.23	-70.19	-13.00	-57.19
410.24	35.55	Н	-60.60	-7.67	2.44	-70.71	-13.00	-57.71
436.43	36.50	Н	-59.16	-7.69	2.52	-69.37	-13.00	-56.37
1673.20	51.21	Н	-55.79	9.36	5.10	-51.52	-13.00	-38.52
2509.80	42.73	Н	-61.14	10.09	6.35	-57.40	-13.00	-44.40
3346.40	41.90	Н	-60.42	12.28	7.29	-55.44	-13.00	-42.44
4183.00		Н		12.62	8.40		-13.00	\
5019.60		Н		12.67	9.26		-13.00	
5856.20		Н		13.68	9.85		-13.00	
6692.80	41.72	Н	-47.54	11.95	10.74	-46.33	-13.00	-33.33
7529.40		Н		11.45	11.35		-13.00	
8366.00		Н		11.59	12.43		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) Cable loss (dB)

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH High E2 Mode Test Date: Dec. 28, 2007

Fundamental Frequency : 848.80 MHz Test By: Bondi Temperature : 25° C Pol: Ver

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
101.78	47.86	V	-55.62	-7.76	1.23	-64.61	-13.00	-51.61
153.19	33.10	V	-64.80	-7.80	1.47	-74.07	-13.00	-61.07
286.08	33.60	V	-66.29	-7.91	1.99	-76.19	-13.00	-63.19
850.00	7.60	V	-79.11	-7.88	3.75	-90.74	-13.00	-77.74
1697.60	54.15	V	-52.87	9.44	5.14	-48.58	-13.00	-35.58
2546.40	44.94	V	-58.85	10.20	6.40	-55.05	-13.00	-42.05
3395.20	48.05	V	-54.49	12.38	7.33	-49.44	-13.00	-36.44
4244.00		V		12.63	8.46		-13.00	
5092.80		V		12.74	9.32		-13.00	
5941.60		V		13.81	9.89		-13.00	
6790.40	45.05	V	-43.47	11.86	10.87	-42.48	-13.00	-29.48
7639.20	39.25	V	-45.92	11.40	11.48	-45.99	-13.00	-32.99
8488.00		V		11.70	12.59		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) Cable loss (dB)

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH High E2 Mode Test Date: Dec. 28, 2007

Fundamental Frequency : $848.80 \, \text{MHz}$ Test By: Bondi Temperature : $25 \, ^{\circ} \! \text{C}$ Pol: Hor

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
101.78	46.16	Н	-56.88	-7.76	1.23	-65.86	-13.00	-52.86
261.83	33.41	Н	-67.18	-7.90	1.99	-77.07	-13.00	-64.07
363.68	34.23	Н	-62.71	-7.65	2.46	-72.82	-13.00	-59.82
436.43	36.16	Н	-59.50	-7.69	2.52	-69.71	-13.00	-56.71
850.00	78.29	Н	-8.70	-7.88	3.75	-20.33	-13.00	-7.33
1697.60	54.51	Н	-52.47	9.44	5.14	-48.18	-13.00	-35.18
2546.40	46.38	Н	-57.40	10.20	6.40	-53.60	-13.00	-40.60
3395.20	46.45	Н	-55.83	12.38	7.33	-50.78	-13.00	-37.78
4244.00		Н		12.63	8.46		-13.00	
5092.80		Н		12.74	9.32		-13.00	
5941.60		Н		13.81	9.89		-13.00	
6790.40	41.12	Н	-47.51	11.86	10.87	-46.52	-13.00	-33.52
7639.20		Н		11.40	11.48		-13.00	
8488.00		Н		11.70	12.59		-13.00	

	30MHz - 80MHz: 5.04dB					
Measurement uncertainty	80MHz -1000MHz: 3.76dB					
	1GHz - 13GHz: 4.45dB					

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) Cable loss (dB)

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Low E2 Mode Dec. 28, 2007 Test Date:

Fundamental Frequency: 1850.20MHz Test By: Bondi Temperature Pol: Ver : 25°C

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
153.19	33.58	V	-64.32	-7.80	1.47	-73.59	-13.00	-60.59
453.89	32.29	V	-62.33	-7.70	2.58	-72.61	-13.00	-59.61
604.24	32.77	V	-57.71	-7.79	2.95	-68.45	-13.00	-55.45
1850.00	78.25	V	-28.71	9.90	5.41	-24.22	-13.00	-11.22
3700.40	52.93	V	-48.65	12.61	7.73	-43.77	-13.00	-30.77
5550.60		V		13.23	9.68		-13.00	
7400.80		V		11.50	11.28		-13.00	\
9251.00		V		11.92	13.10		-13.00	
11101.20		V		11.66	14.33		-13.00	
12951.40		V		13.63	15.98		-13.00	
14801.60		V		12.76	17.27		-13.00	
16651.80		V		15.92	19.04		-13.00	
18502.00		V		18.75	21.21		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
\	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) Cable loss (dB)

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Low E2 Mode Test Date: Dec. 28, 2007

Fundamental Frequency : 1850.20 MHz Test By: Bondi Temperature : 25°C Pol: Hor

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
143.49	34.51	Н	-64.67	-7.79	1.43	-73.90	-13.00	-60.90
177.44	33.64	Н	-66.71	-7.82	1.52	-76.05	-13.00	-63.05
421.88	33.61	Н	-62.32	-7.68	2.48	-72.47	-13.00	-59.47
1850.00	83.81	Н	-23.08	9.90	5.41	-18.59	-13.00	-5.59
3700.40	50.35	Н	-51.01	12.61	7.73	-46.13	-13.00	-33.13
5550.60		Н		13.23	9.68		-13.00	
7400.80		Н		11.50	11.28		-13.00	\
9251.00		Н		11.92	13.10		-13.00	
11101.20		Н		11.66	14.33		-13.00	
12951.40		Н		13.63	15.98		-13.00	
14801.60		Н		12.76	17.27		-13.00	
16651.80		Н		15.92	19.04		-13.00	
18502.00		Н		18.75	21.21		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
\	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) Cable loss (dB)

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Mid E2 Mode Test Date: Dec. 28, 2007

Fundamental Frequency: 1880MHz Test By: Bondi Temperature Pol: Ver : 25℃

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
101.78	47.95	V	-55.53	-7.76	1.23	-64.52	-13.00	-51.52
145.43	33.74	V	-64.43	-7.80	1.44	-73.67	-13.00	-60.67
177.44	34.23	V	-65.84	-7.82	1.52	-75.19	-13.00	-62.19
3760.00	43.77	V	-57.53	12.60	7.82	-52.75	-13.00	-39.75
5640.00	42.99	V	-51.97	13.36	9.73	-48.34	-13.00	-35.34
7520.00	40.39	V	-45.22	11.45	11.33	-45.11	-13.00	-32.11
9400.00		V		11.93	13.15		-13.00	\
11280.00		V		11.92	14.56		-13.00	
13160.00		V		13.33	16.11		-13.00	
15040.00		V		13.76	17.57		-13.00	
16920.00		V		15.27	19.66		-13.00	
18800.00		V		18.68	21.34		-13.00	

	30MHz - 80MHz: 5.04dB				
Measurement uncertainty	80MHz -1000MHz: 3.76dB				
	1GHz - 13GHz: 4.45dB				

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) Cable loss (dB)

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Mid E2 Mode Test Date: Dec. 28, 2007

Fundamental Frequency : 1880 MHz Test By: Bondi Temperature : 25°C Pol: Hor

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
145.43	34.23	Н	-64.77	-7.80	1.44	-74.01	-13.00	-61.01
286.08	32.90	Н	-67.07	-7.91	1.99	-76.97	-13.00	-63.97
460.68	33.06	Н	-62.02	-7.70	2.60	-72.32	-13.00	-59.32
3760.00	46.87	Н	-54.24	12.60	7.82	-49.45	-13.00	-36.45
5640.00	34.98	Н	-59.91	13.36	9.73	-56.28	-13.00	-43.28
7520.00	45.53	Н	-40.16	11.45	11.33	-40.04	-13.00	-27.04
9400.00		Н		11.93	13.15		-13.00	\
11280.00		Н		11.92	14.56		-13.00	
13160.00		Н		13.33	16.11		-13.00	
15040.00		Н		13.76	17.57		-13.00	
16920.00		Н		15.27	19.66		-13.00	
18800.00		Н		18.68	21.34		-13.00	

	30MHz - 80MHz: 5.04dB					
Measurement uncertainty	80MHz -1000MHz: 3.76dB					
	1GHz - 13GHz: 4.45dB					

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) Cable loss (dB)

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH High E2 Mode Test Date: Dec. 28, 2007

Fundamental Frequency : 1909.8 MHz Test By: Bondi Temperature : 25° C Pol: Ver

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
101.78	47.45	V	-56.03	-7.76	1.23	-65.02	-13.00	-52.02
140.58	35.11	V	-63.65	-7.79	1.42	-72.86	-13.00	-59.86
177.44	34.02	V	-66.05	-7.82	1.52	-75.40	-13.00	-62.40
1910.00	79.77	V	-27.17	10.08	5.51	-22.60	-13.00	-9.60
3981.60	49.56	V	-50.72	12.60	8.17	-46.30	-13.00	-33.30
5972.40	44.87	V	-49.15	13.86	9.91	-45.20	-13.00	-32.20
7963.20		V		11.27	11.88		-13.00	\
9954.00		V		12.08	13.43		-13.00	
11944.80		V		13.08	15.21		-13.00	
13935.60		V		11.82	16.86		-13.00	
15926.40		V		17.08	18.33		-13.00	
17917.20		V		9.63	20.12		-13.00	
19908.00		V		18.88	20.85		-13.00	

	30MHz - 80MHz: 5.04dB			
Measurement uncertainty	80MHz -1000MHz: 3.76dB			
	1GHz - 13GHz: 4.45dB			

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) Cable loss (dB)

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH High E2 Mode Test Date: Dec. 28, 2007

Fundamental Frequency: 1909.8 MHz Test By: Bondi Temperature Pol: Hor : 25℃

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
101.78	42.23	Н	-60.81	-7.76	1.23	-69.79	-13.00	-56.79
145.43	33.93	Н	-65.07	-7.80	1.44	-74.31	-13.00	-61.31
177.44	33.09	Н	-67.26	-7.82	1.52	-76.60	-13.00	-63.60
1910.00	82.05	Н	-24.80	10.08	5.51	-20.24	-13.00	-7.24
3981.60	50.72	Н	-49.46	12.60	8.17	-45.03	-13.00	-32.03
5972.40	43.27	Н	-50.74	13.86	9.91	-46.79	-13.00	-33.79
7963.20	39.42	Н	-44.77	11.27	11.88	-45.37	-13.00	-32.37
9954.00		Н		12.08	13.43		-13.00	
11944.80		Н		13.08	15.21		-13.00	
13935.60		Н		11.82	16.86		-13.00	
15926.40		Н		17.08	18.33		-13.00	
17917.20		Н		9.63	20.12		-13.00	
19908.00		Н		18.88	20.85		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) Cable loss (dB)

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9. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

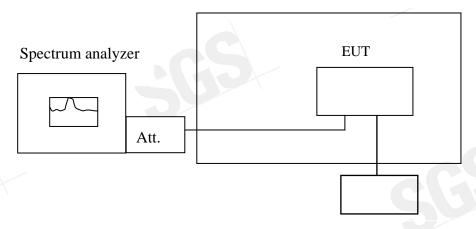
Standard Applicable

According to FCC §2.1055(a)(1)(b).

Frequency Tolerance: 2.5 ppm

Test Set-up:

Temperature Chamber



Variable Power Supply

Note: Measurement setup for testing on Antenna connector

Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25° C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30° C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10° C increased per stage until the highest temperature of $+50^{\circ}$ C reached.

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Measurement Equipment Used:

	Conducte	ed Emission T	est Site		
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/27/2008
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Spectrum Analyzer	R&S	FSP 40	100034	01/05/2007	01/04/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Temperature Chamber	TERCHY	MHG-120LF	911009	04/26/2007	04/25/2008
Low Loss Cable	Cable HUBER+SUHNER SUCOFLEX 104PEA		N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2007	07/04/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2007	07/04/2008
Splitter	Splitter Agilent 11636B 51728 07/05/2007 07/04		07/04/2008		
DC Power Supply	Agilent	6038A	2929A-07548	06/27/2007	06/26/2008

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Measurement Result

Re	eference Frequency:	GSM Mid Channe	el 836.6 MHz @ 25	5°C
	Limit	+/- 2.5 ppm = 20	91 Hz	\
Power Supply	Environment	Frequency	Dolto (Hg)	Limit (Hz)
Vdc	Temperature ($^{\circ}$ C)	(MHz)	Delta (Hz)	Limit (Hz)
3.7	-30	836.600005	-8.00	2091
3.7	-20	836.599996	1.00	2091
3.7	-10	836.599998	-1.00	2091
3.7	0	836.600010	-13.00	2091
3.7	10	836.599988	9.00	2091
3.7	20	836.599997	0.00	2091
3.7	30	836.600006	-9.00	2091
3.7	40	836.599992	5.00	2091
3.7	50	836.599995	2.00	2091

Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C							
R	eterence Frequency	: PCS Mid Channe	ei 1880 MHZ @ 25				
	Limit	: +/- 2.5 ppm = 47	00 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)			
Vdc	Temperature ($^{\circ}$ C)	(MHz)	Della (HZ)	Limit (Hz)			
3.7	-30	1879.999998	-11.00	4700			
3.7	-20	1880.000004	-17.00	4700			
3.7	-10	1879.999996	-9.00	4700			
3.7	0	1880.000001	-14.00	4700			
3.7	10	1880.000017	-30.00	4700			
3.7	20	1879.999987	0.00	4700			
3.7	30	1880.000005	-18.00	4700			
3.7	40	1879.999991	-4.00	4700			
3.7	50	1879.999976	11.00	4700			

Note: The battery is rated 3.7V dc.

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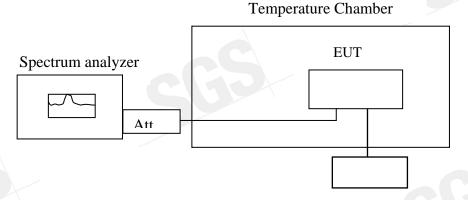
10. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

Standard Applicable

According to FCC §2.1055(d)(1)(2)

Frequency Tolerance: 2.5 ppm

Test Set-up:



Variable DC Power Supply

Note: Measurement setup for testing on Antenna connector

Measurement Procedure

Set chamber temperature to 25° C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.

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Measurement Equipment Used:

	Conducte	ed Emission T	est Site			
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/27/2008	
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008	
Spectrum Analyzer	R&S	FSP 40	100034	01/05/2007	01/04/2008	
Communication Test	R&S	SMU200	N/A	N/A	N/A	
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008	
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008	
Temperature Chamber	TERCHY	MHG-120LF	911009	04/26/2007	04/25/2008	
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A	
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2007	07/04/2008	
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2007	07/04/2008	
Splitter	Agilent	11636B	51728	07/05/2007	07/04/2008	
DC Power Supply	Agilent	6038A	2929A-07548	06/27/2007	06/26/2008	

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Measurement Result

				0
R	eference Frequency	: GSM Mid Channe	el 836.6 MHz @ 25	$^{\circ}$
	Limit	: +/- 2.5 ppm = 209	1 Hz	
Power Supply	Environment	Frequency	Dolto (Hz)	Limit (Hg)
Vdc	Temperature ($^{\circ}$ C)	(MHz)	Delta (Hz)	Limit (Hz)
4.20	25.00	835.999993	0.00	2091.00
3.70	25.00	835.999998	-5.00	2091.00
3.60	25.00	836.000004	-11.00	2091.00
3.3 (End Point)	25.00	836.000110	-117.00	2091.00

F	Reference Frequency	: PCS Mid Channe	el 1880 MHz @ 25°	C
	Limit	: +/- 2.5 ppm = 470	00 Hz	
Power Supply	Environment	Frequency	Dolto (Hg)	Limit (Hg)
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Limit (Hz)
4.2	25	1879.999985	0.00	4700
3.7	25	1879.999993	-8.00	4700
3.6	25	1879.999975	10.00	4700
3.3 (Endpoint)	25	1879.999996	-11.00	4700

Note: The battery is rated 3.7V dc.

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11. AC POWER LINE CONDUCTED EMISSION TEST

Standard Applicable

According to §15.207. The emission value for frequency within 150KHz to 30MHz shall not exceed criteria of below chart.

Lin	mits
dB((uV)
Quasi-peak	Average
66 to 56	56 to 46
56	46
60	50
	Quasi-peak 66 to 56 56

Note

EUT Setup

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2001.
- 2. The EUT was plug-in DC power adaptort and was placed on the center of the back edge on the test table. The peripherals like earphone was placed on the side of the EUT. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
- 3. The Power adaptor was connected with 110Vac/60Hz power source.

Measurement Procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

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^{1.} The lower limit shall apply at the transition frequencies

^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.



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Measurement Equipment Used:

	Con	ducted Emission T	est Site		
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
ТҮРЕ		NUMBER	NUMBER	CAL.	
EMC Analyzer	HP	8594EM	3624A00203	09/02/2007	09/03/2008
EMI Test Receiver	R&S	ESCS30	828985/004	06/09/2007	06/10/2008
Transient Limiter	HP	11947A	3107A02062	09/02/2007	09/03/2008
LISN	Rolf-Heine	NNB-2/16Z	99012	01/10/2007	01/09/2008
LISN	Rolf-Heine	NNB-2/16Z	99013	01/10/2007	01/09/2008
Coaxial Cables	N/A	No. 3, 4	N/A	12/01/2007	11/30/2008

Measurement Result

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 850 LINK +	AC Adapter		Test Date:	Dec. 10, 2007
Temperature:	25 ℃	Humidity:	59 %	Test By:	Bondi



Site SGS CONDUCTED #1

Limit: CISPR22 Class B Conduction(QP)

EUT: Mobile phone

M/N: V100

Note: GSM 850 link /charger

i ilase.			
Power:	AC 120V/60Hz	Humidity:	62 %
Distance:		Air Pressure:	hpa

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	d₿	dBu∀	dBuV	dB	Detector	Comment
1	0.3700	48.19	0.02	48.21	58.50	-10.29	QP	
2	0.3700	42.00	0.02	42.02	48.50	-6.48	AVG	
3	0.4450	50.89	0.02	50.91	56.97	-6.06	QP	
4 ×	0.4450	45.00	0.02	45.02	46.97	-1.95	AVG	
5	0.5400	50.26	0.02	50.28	56.00	-5.72	QP	
6	0.5400	42.00	0.02	42.02	46.00	-3.98	AVG	
7	0.6000	47.64	0.02	47.66	56.00	-8.34	QP	
8	0.6000	36.00	0.02	36.02	46.00	-9.98	AVG	
9	1.6600	42.02	0.03	42.05	56.00	-13.95	QP	
10	2.4400	41.52	0.05	41.57	56.00	-14.43	QP	
11	14.0000	42.64	0.34	42.98	60.00	-17.02	QP	

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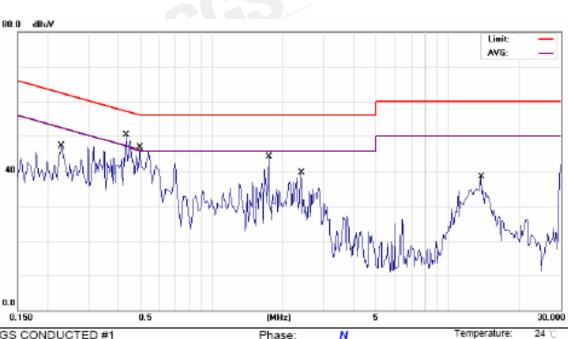
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Humidity:

Air Pressure:

hpa

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Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED #1

Limit: CISPR22 Class B Conduction(QP)

EUT: Mobile phone

M/N: V100

Note: GSM 850 link /charger

No. Mk	. Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	₫B	dBuV	dBuV	dB	Detector	Comment
1	0.2300	47.11	0.02	47.13	62.45	-15.32	QP	
2	0.4350	50.22	0.02	50.24	57.16	-6.92	QP	
3	0.4350	40.00	0.02	40.02	47.16	-7.14	AVG	
4	0.4950	46.75	0.02	46.77	56.08	-9.31	QP	
5 ×	0.4950	42.00	0.02	42.02	46.08	-4.06	AVG	
6	1.7600	44.24	0.03	44.27	56.00	-11.73	QP	
7	1.7600	26.00	0.03	26.03	46.00	-19.97	AVG	
8	2.4000	39.59	0.05	39.64	56.00	-16.36	QP	
9	13.8800	38.31	0.26	38.57	60.00	-21.43	QP	

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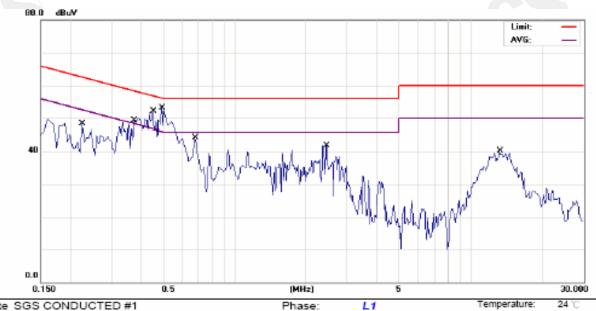


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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 1900 Link	+ AC Adapter	Test Date:	Dec. 10, 2007	
Temperature:	25 °C	Humidity:	59 %	Test By:	Bondi



Site SGS CONDUCTED #1

Limit: CISPR22 Class B Conduction(QP)

EUT: Mobile phone

M/N: V100

Note: GSM 1900 link /charger

Power:	AC 120V/60Hz	Humidity:	62 %
Distance:		Air Pressure:	hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2250	48.25	0.02	48.27	62.63	-14.36	QP	
2		0.3750	49.24	0.02	49.26	58.39	-9.13	QP	
3		0.3750	41.00	0.02	41.02	48.39	-7.37	AVG	
4		0.4500	52.00	0.02	52.02	56.88	-4.86	QP	
5		0.4500	42.00	0.02	42.02	46.88	-4.86	AVG	
6	×	0.4900	53.00	0.02	53.02	56.17	-3.15	QP	
7		0.4900	40.00	0.02	40.02	46.17	-6.15	AVG	
8		0.6800	44.21	0.02	44.23	56.00	-11.77	QP	
9		0.6800	31.00	0.02	31.02	46.00	-14.98	AVG	
10		2.4600	41.92	0.05	41.97	56.00	-14.03	QP	
11		13.3200	39.92	0.33	40.25	60.00	-19.75	QP	

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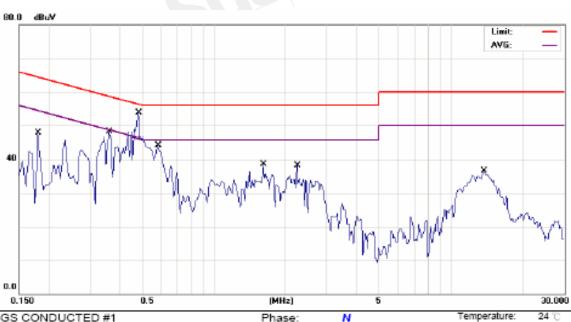
Humidity:

Air Pressure:

62 %

hpa

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Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED #1

Limit: CISPR22 Class B Conduction(QP)

EUT: Mobile phone

M/N: V100

Note: GSM 1900 link /charger

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dΒ	Detector	Comment
1		0.1800	47.75	0.01	47.76	64.49	-16.73	QP	
2		0.3600	48.15	0.02	48.17	58.73	-10.56	QP	
3		0.3600	36.00	0.02	36.02	48.73	-12.71	AVG	
4	×	0.4800	53.71	0.02	53.73	56.34	-2.61	QP	
5		0.4800	35.00	0.02	35.02	46.34	-11.32	AVG	
6		0.5800	44.20	0.02	44.22	56.00	-11.78	QP	
7		0.5800	32.00	0.02	32.02	46.00	-13.98	AVG	
8		1.6200	38.68	0.03	38.71	56.00	-17.29	QP	
9		2.2600	38.34	0.04	38.38	56.00	-17.62	QP	
10		13.8000	36.38	0.26	36.64	60.00	-23.36	QP	

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APPENDIX 1 PHOTOGRAPHS OF SET UP

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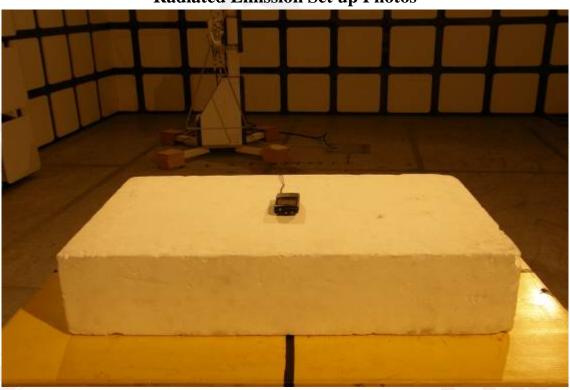
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Radiated Emission Set up Photos



Conducted Emission Set up Photo



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APPENDIX 2 PHOTOGRAPHS OF EUT

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All of EUT



Front View of EUT



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Back View of EUT



Side View of EUT – 1



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Side View of EUT - 2



Side View of EUT – 3



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Side View of EUT - 4



Adaptor



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Battery



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Open View of EUT - 1



Open View of EUT – 2



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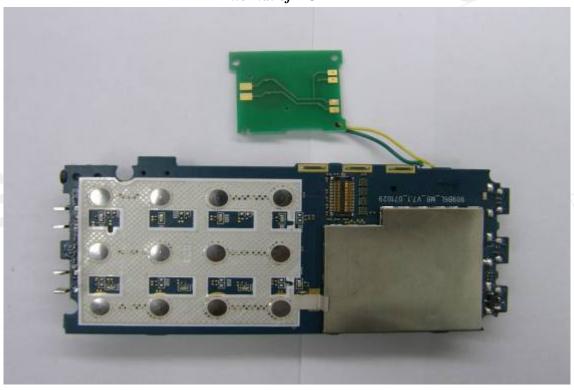
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Open View of EUT - 3



Internal of EUT - 1



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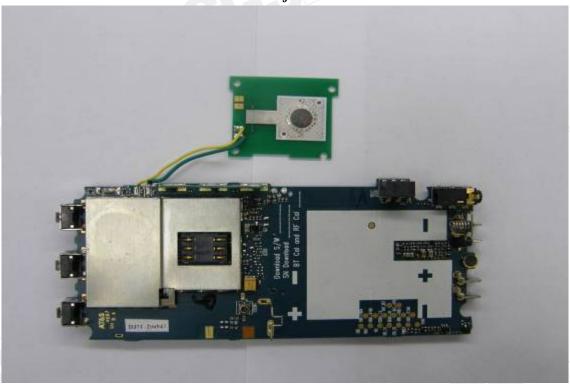
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Internal of EUT - 3



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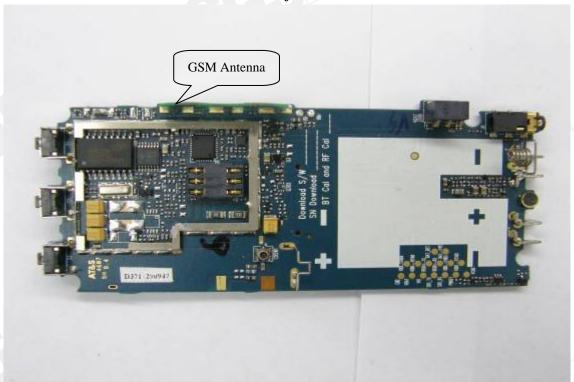
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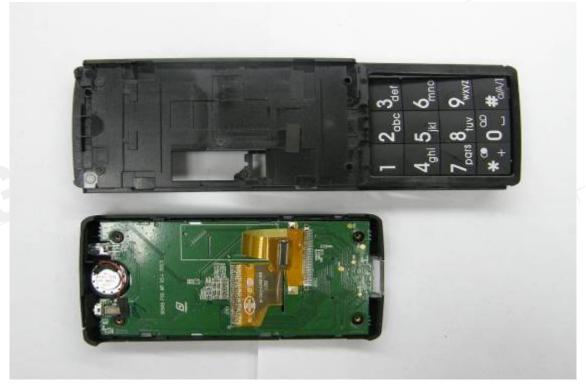
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Internal of EUT – 5



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Internal of EUT - 6



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