

Report No.: EH/2008/60020-02 Issue Date: Aug. 27, 2008

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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 24 SUBPART E

OF

Type Name/Number: BZ2008S1

Brand Name: SAGEM

FCC ID: M9HBZ08S1

Report No: EH/2008/60020-02

Issue Date: Aug. 27, 2008

FCC Rule Part: 2,24E

Prepared for: Sagem Mobiles

2, rue du Petit Albi, BP 28250, 95801

CERGY PONTOISE Cedex

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: Sagem Mobiles

2, rue du Petit Albi, BP 28250, 95801 CERGY PONTOISE Cedex

Type Name/Number: BZ2008S1

FCC ID Number: M9HBZ08S1

Brand Name: SAGEM

Marketing Difference: N/A

File Number: EH/2008/60020-02

Jun. 27, 2008 ~ Jul. 04, 2008 Date of test:

Date of EUT Received: Jun. 26, 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 24 subpart E.

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

Test By:	Jazz	Huang	Date	Aug. 27, 2008
_		ng / Engineer		
Prepared By:	Alex	Hsieh	Date	Aug. 27, 2008
		/ Sr. Engineer		3
Approved By	Vine	it du	Date	Aug. 27, 2008
	Vincent S	u / Manager		

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Version

Version No.	Date	
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1. GENERAL INFORMATION

Product Description

1 Toduct Description					
Type Name/Number:	BZ2008S1				
Brand Name:	SAGEM				
Marketing Difference:	N/A				
Data Cable (USB):	1 cable, model: 189190175				
	3.9Vdc re-charg	geable battery or 5Vdc by AC/DC power adapter			
Power Supply	Battery: Mode: 287144366, Supplier: SAGEM				
1 Ower Suppry	Adapter:	Mode: DCH3-050US 189732754, Supplier: SAGEM			

GSM:

GSM:			
Cellular Phone Standards		22	
Frequency Range and	GSM/GPRS 1900	1850MHz – 1910MHz	30 dBm
Power			
Type of Emission	GSM: 300KGXW		
IMEI	353625020001761		
Software Version	V0x		
Hardware Version	E N,TB		

Bluetooth:

Frequency Range	2402 – 2480MHz
Channel number	79 channels
Rated Power	2.11 dBm (Peak)
Modulation type	Frequency Hopping Spread Spectrum (FHSS)(GFSK)
Antenna Designation	PIFA Antenna, -4.5 dBi,

This test report applies for GSM/GPRS 1900.

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Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID:** <u>M9HBZ08S1</u> filing to comply with Section 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. 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

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. 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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2. 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 a placed on as turn table which is 0.8 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 and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna. according to the requirements in Section 8 and 13 and Subclause 8.3.1.2 of ANSI C63.4-2003.

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Configuration of Tested System

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

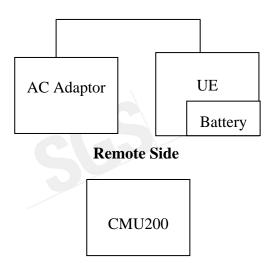


Table 2-3 Equipment Used in Tested System

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) \$24.232(a)	RF Power Output	Compliant
\$2.1046(a) \$24.232(a)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% Occupied Bandwidth	Compliant
\$2.1051 \$24.238(a)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
\$2.1053 \$24.238(a)	Field Strength of Spurious Radiation	Compliant
§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 and GPRS. The worst-case H mode for GSM 1900 band with adaptor for channel Low, Mid and High at GSM mode was reported.

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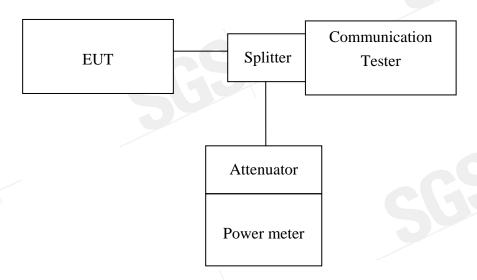
5. RF POWER OUTPUT MEASUREMENT

Standard Applicable

According to FCC §2.1046.

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	04/27/2008	04/27/2009		
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2008	07/03/2009		
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/08/2008		
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	10/14/2007	10/13/2008		
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A		
Attenuator	Mini-Circult	BW-S10W5	N/A	09/23/2007	09/22/2008		
Attenuator	Mini-Circult	BW-S6W5	N/A	09/23/2007	09/22/2008		
Splitter	Agilent	11636B	51728	09/23/2007	09/22/2008		
DC Power Supply	TOPWARD	3303A	N/A	N/A	N/A		

Measurement Result

EUT Mode	Frequency (MHz)	СН	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
	1850.20	512	29.54	0.00	29.54
PCS 1900	1880.00	661	29.45	0.00	29.45
	1909.80	810	29.38	0.00	29.38

^{*}Offset 17.5dB

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6. ERP, EIRP MEASUREMENT

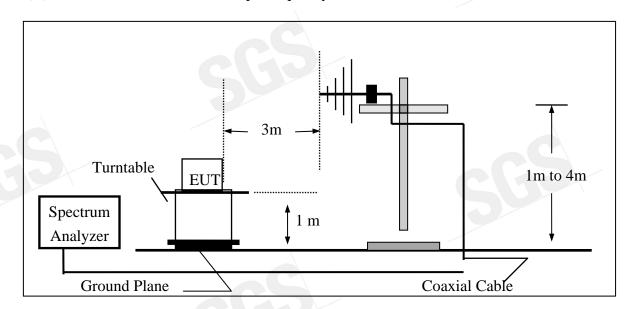
Standard Applicable

According to FCC §2.1046

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



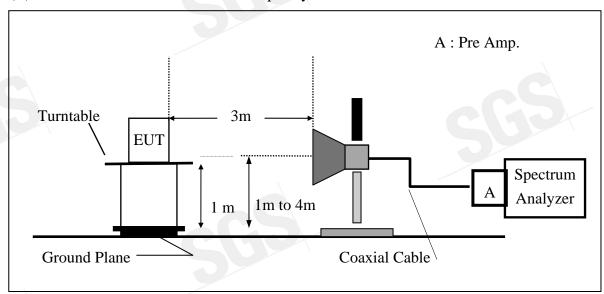
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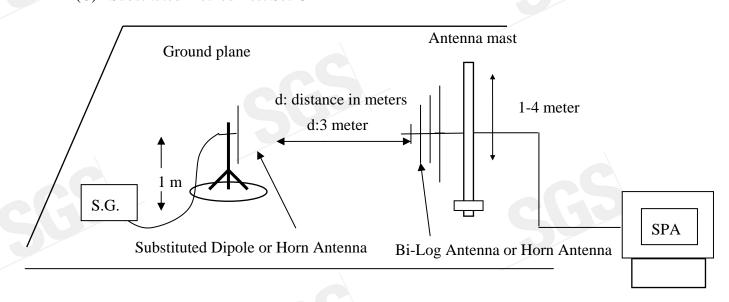
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(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 (dBi) - Cable Loss (dB)

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Measurement Equipment Used:

Measurement Eq					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/27/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2008	07/03/2009
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/08/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3158	10/17/2007	10/16/2008
Horn antenna	Schwarzbeck	BBHA 9120D	309/320	12/14/2007	12/13/2008
Pre-Amplifier	HP	8447D	2944A09469	07/19/2007	07/18/2008
Pre-Amplifier	HP	8494B	3008A00578	02/26/2008	02/25/2009
Signal Generator	R&S	SMR40	100210	02/09/2008	02/10/2009
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	Schwarzbeck	VHAP	908/909	06/09/2007	06/10/2008
Dipole Antenna	Schwarzbeck	UHAP	891/892	06/09/2007	06/10/2008
	1				

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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)		
			Н	V	110.50	3.54	9.90	5.41	8.03	33.00		
			п	Н	129.09	22.20	9.90	5.41	26.69	33.00		
	1950 20	512	E1	V	123.47	16.51	9.90	5.41	21.00	33.00		
	1850.20	312	EI	Н	121.19	14.30	9.90	5.41	18.79	33.00		
			Е2	V	124.73	17.77	9.90	5.41	22.26	33.00		
			E2	Н	126.83	19.94	9.90	5.84	24.00	33.00		
				Н	V	107.64	0.69	9.99	5.46	5.22	33.00	
		1880.00 661		н	Н	127.73	20.86	9.99	5.46	25.39	33.00	
PCS 1900	1000.00		E1	V	122.40	15.45	9.99	5.46	19.98	33.00		
PCS 1900	1880.00		661	001	01 E1	Н	120.34	13.47	9.99	5.46	18.00	33.00
					E2	V	123.91	16.96	9.99	5.46	21.49	33.00
	\		EZ	Н	124.92	18.05	9.99	5.46	22.58	33.00		
			Н	V	107.46	0.52	10.08	5.51	5.09	33.00		
			п	Н	125.24	18.39	10.08	5.51	22.95	33.00		
	1909.80 810	910	E1	V	120.52	13.58	10.08	5.51	18.15	33.00		
			EI	Н	118.99	12.14	10.08	5.51	16.70	33.00		
			F2	E2	V	121.88	14.94	10.08	5.51	19.51	33.00	
			EZ	Н	122.59	15.74	10.08	5.51	20.30	33.00		

Remark:

(1) The RBW, VBW of SPA for frequency

Below 1GHz was RBW=250 KHz, VBW= 300KHz,

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

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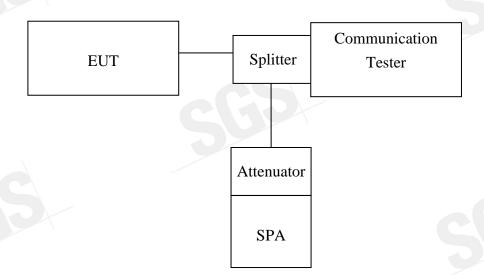
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7. 99% OCCUPIED BANDWIDTH MEASUREMENT

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	MFR	MODEL	SERIAL	LAST	CAL DUE.					
TYPE		NUMBER	NUMBER	CAL.						
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/27/2009					
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2008	07/03/2009					
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	11/11/2007	11/12/2008					
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A					
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2007	10/06/2008					
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2007	10/06/2008					
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2007	10/06/2008					
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008					
DC Power Supply	Agilent	6038A	2929A-07548	06/27/2008	06/26/2009					

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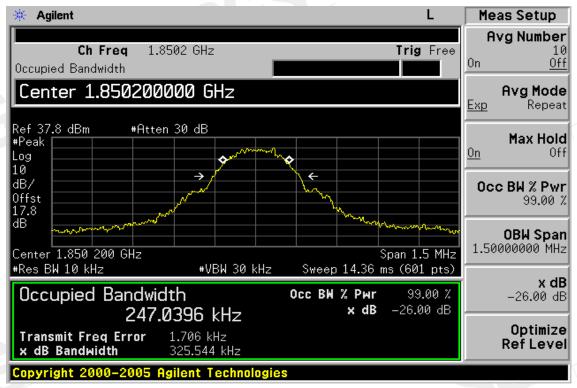
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Measurement Result:

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)
	1850.20	512	0.2470
PCS 1900	1880.00	661	0.2479
	1909.80	810	0.2469

Figure 7-1: PCS Channel Low



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Figure 7-2: PCS Channel Mid

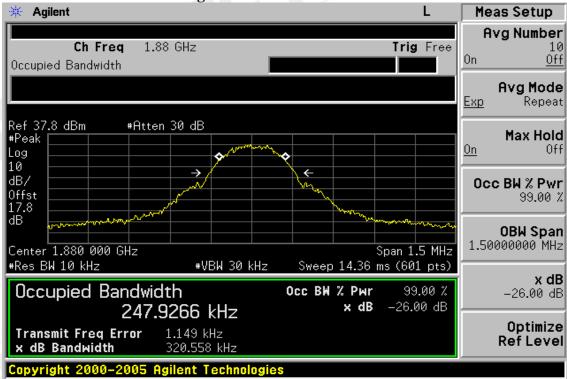
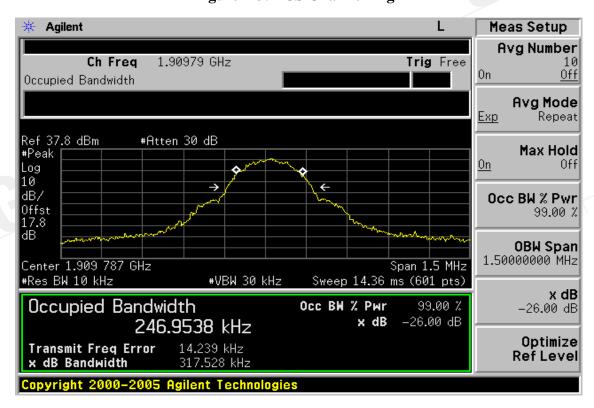


Figure 7-3: PCS Channel High



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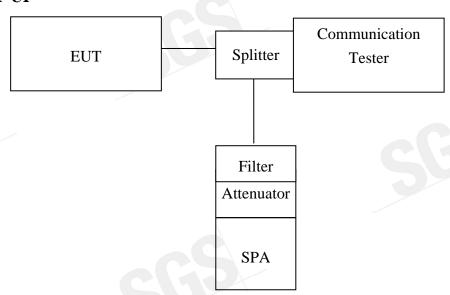
OUT OF BAND EMISSION AT ANTENNA TERMINALS

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= 10th 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:

	Conducto	ed Emission T	est Site		
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/27/2009
Spectrum Analyzer	Agilent	7405A	US41160416	07/04/2008	07/03/2009
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	11/11/2007	11/12/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2007	10/06/2008
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2007	10/06/2008
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2007	10/06/2008
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008
DC Power Supply	Agilent	6038A	2929A-07548	06/27/2008	06/26/2009
Band reject filter	Wicro-tronics	BRM13462	001	01/05/2008	01/04/2009

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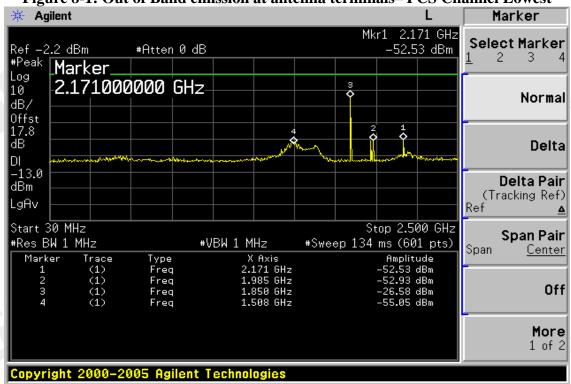


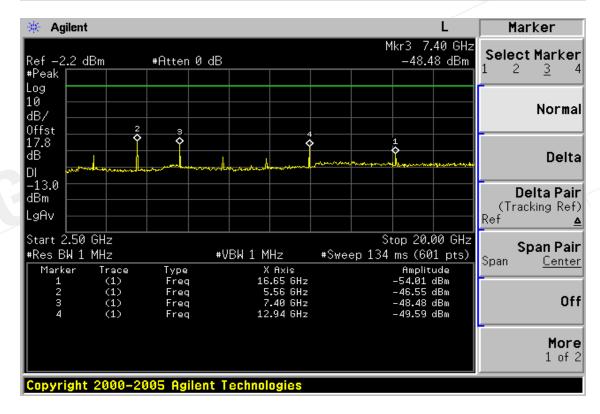
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Measurement Result

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



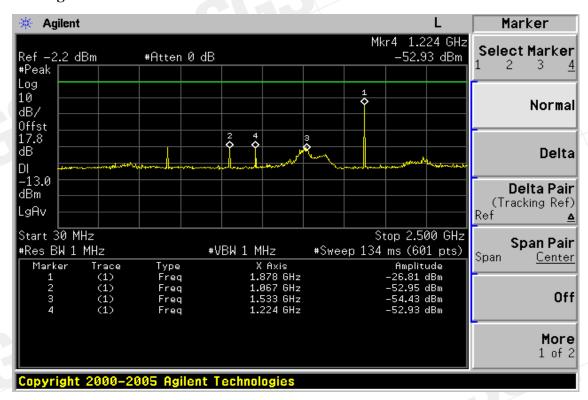


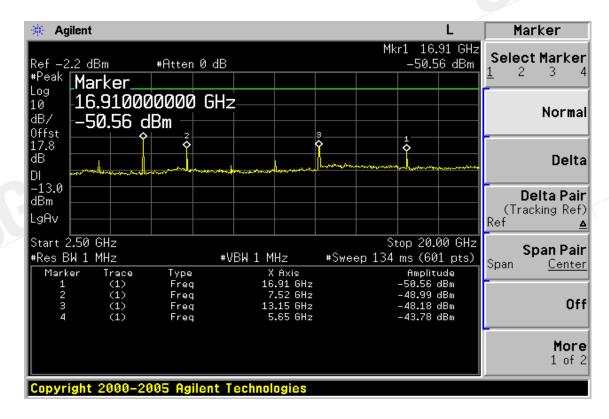


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Figure 8-2: Out of Band emission at antenna terminals –PCS Channel Mid





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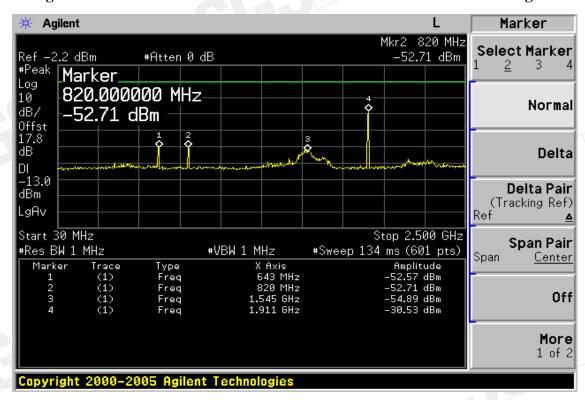
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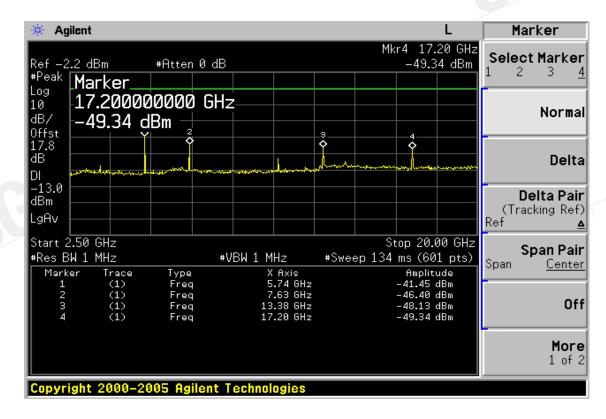


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Figure 8-3: Out of Band emission at antenna terminals-PCS Channel Highest





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

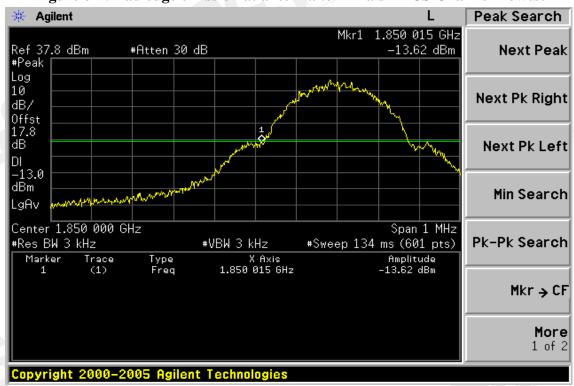


Figure 8-5: Band edge emission at antenna terminals – PCS Channel Highest



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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

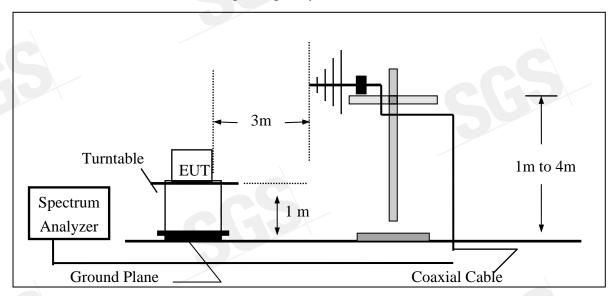
Standard Applicable

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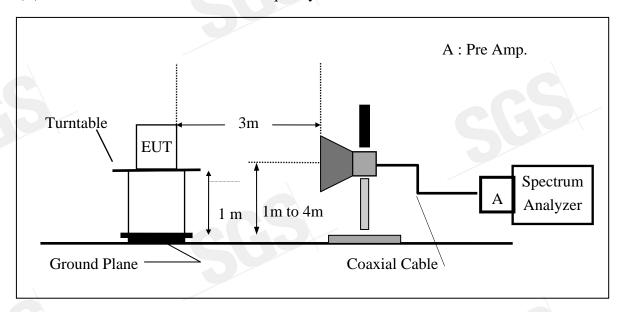
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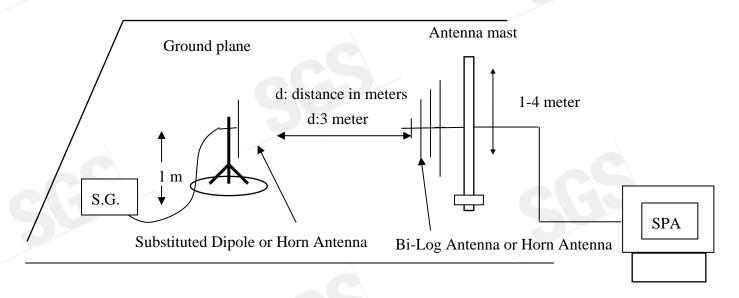
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(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.

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. And Peak detector was used during this test.

When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

ERP was 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 was 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 (dBi) – Cable Loss (dB)

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Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/27/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2008	07/03/2009
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3158	10/17/2007	10/16/2008
Horn antenna	Schwarzbeck	BBHA 9120D	309/320	12/14/2007	12/13/2008
Pre-Amplifier	НР	8447D	2944A09469	07/19/2007	07/18/2008
Pre-Amplifier	НР	8494B	3008A00578	02/26/2008	02/25/2009
Signal Generator	R&S	SMR40	100210	02/09/2008	02/10/2009
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
Site NSA	SGS	10m Open-Site	N/A	10/02/2007	10/01/2008
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2007	10/06/2008
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2007	10/13/2008
Dipole Antenna	Schwarzbeck	VHAP	908/909	06/09/2008	06/10/2009
Dipole Antenna	Schwarzbeck	UHAP	891/892	06/09/2008	06/10/2009

Measurement Result

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Low H Mode Test Date: Jul. 01, 2008

Fundamental Frequency : 1850.20 MHz Test By: Jazz 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)
46.49	44.07	V	-61.10	-1.32	0.86	-63.28	-13.00	-50.28
101.78	39.58	V	-63.90	-7.76	1.23	-72.89	-13.00	-59.89
1850.00	65.97	V	-40.99	9.90	5.41	-36.50	-13.00	-23.50
3700.40	46.33	V	-55.25	12.61	7.73	-50.37	-13.00	-37.37
5550.60		V		13.23	9.68		-13.00	
7400.80	38.24	V	-47.76	11.50	11.28	-47.53	-13.00	-34.53
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 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: PCS 1900 Mode

Operation Mode : TX CH Low H Mode Test Date: Jul. 01, 2008

Fundamental Frequency : 1850.20 MHz Test By: Jazz 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)
65.89	39.56	Н	-72.29	-0.83	0.98	-74.10	-13.00	-61.10
104.69	38.45	Н	-64.32	-7.76	1.24	-73.32	-13.00	-60.32
1850.00	83.51	Н	-23.38	9.90	5.41	-18.89	-13.00	-5.89
3700.40	50.66	Н	-50.70	12.61	7.73	-45.82	-13.00	-32.82
5550.60		Н		13.23	9.68		-13.00	
7400.80	39.00	Н	-47.06	11.50	11.28	-46.84	-13.00	-33.84
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 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: PCS 1900 Mode

Operation Mode : TX CH Mid H Mode Test Date: Jul. 01, 2008

Fundamental Frequency : 1880 MHz Test By: Jazz 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)
51.34	41.72	V	-65.86	-0.58	0.91	-67.34	-13.00	-54.34
62.98	39.28	V	-72.17	-0.64	0.96	-73.78	-13.00	-60.78
3760.00	41.26	V	-60.04	12.60	7.82	-55.26	-13.00	-42.26
5640.00		V		13.36	9.73		-13.00	
7520.00		V		11.45	11.33		-13.00	
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 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: PCS 1900 Mode

Operation Mode : TX CH Mid H Mode Test Date: Jul. 01, 2008

Fundamental Frequency : 1880 MHz Test By: Jazz 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)
51.34	39.12	Н	-68.53	-0.58	0.91	-70.02	-13.00	-57.02
65.89	38.23	Н	-73.62	-0.83	0.98	-75.43	-13.00	-62.43
3760.00	51.00	Н	-50.11	12.60	7.82	-45.32	-13.00	-32.32
5640.00		Н		13.36	9.73		-13.00	
7520.00	38.11	Н	-47.58	11.45	11.33	-47.46	-13.00	-34.46
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB			
	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: PCS 1900 Mode

Operation Mode : TX CH High H Mode Test Date: Jul. 01, 2008

Fundamental Frequency : 1909.8 MHz Test By: Jazz 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)
43.58	48.60	V	-55.06	-1.92	0.83	-57.80	-13.00	-44.80
65.89	40.14	V	-71.45	-0.83	0.98	-73.26	-13.00	-60.26
1910.00	62.41	V	-44.53	10.08	5.51	-39.96	-13.00	-26.96
3981.60	38.70	V	-61.58	12.60	8.17	-57.16	-13.00	-44.16
5972.40	37.59	V	-56.43	13.86	9.91	-52.48	-13.00	-39.48
7963.20	37.12	V	-46.83	11.27	11.88	-47.44	-13.00	-34.44
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 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: PCS 1900 Mode

Operation Mode : TX CH High H Mode Test Date: Jul. 01, 2008

Fundamental Frequency : 1909.8 MHz Test By: Jazz 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)
38.73	42.77	Н	-60.42	-3.25	0.77	-64.44	-13.00	-51.44
65.89	41.87	Н	-69.98	-0.83	0.98	-71.79	-13.00	-58.79
1910.00	78.79	Н	-28.06	10.08	5.51	-23.50	-13.00	-10.50
3981.60	41.85	Н	-58.33	12.60	8.17	-53.90	-13.00	-40.90
5972.40	35.25	Н	-58.76	13.86	9.91	-54.81	-13.00	-41.81
7963.20		Н		11.27	11.88		-13.00	
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 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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10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

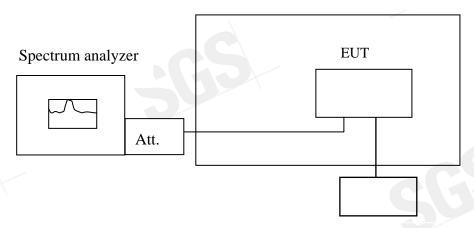
Standard Applicable

According to FCC §2.1055(a)(1)(b).

Frequency Tolerance: +/- 2.5 ppm for 1900MHz band

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	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/27/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2008	07/03/2009
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Power Meter Anritsu		6K00002070	07/07/2007	07/06/2008
Temperature Chamber	Temperature Chamber TERCHY		911009	11/11/2007	11/12/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2007	10/06/2008
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2007	10/06/2008
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2007	10/06/2008
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008
DC Power Supply	Agilent	6038A	2929A-07548	06/27/2008	06/26/2009

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Measurement Result

R	Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C								
\	Limit: +/- 2.5 ppm = 4700 Hz								
Power Supply	Environment	Frequency	Dolto (Hz)	Limit (Hz)					
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Limit (Hz)					
3.9	-30	1879.999973	10.00	4700					
3.9	-20	1879.999985	-2.00	4700					
3.9	-10	1879.999980	3.00	4700					
3.9	0	1879.999984	-1.00	4700					
3.9	10	1879.999970	13.00	4700					
3.9	20	1879.999983	0.00	4700					
3.9	30	1879.999981	2.00	4700					
3.9	40	1879.999975	8.00	4700					
3.9	50	1879.999979	4.00	4700					

Note: The battery is rated 3.9V dc.



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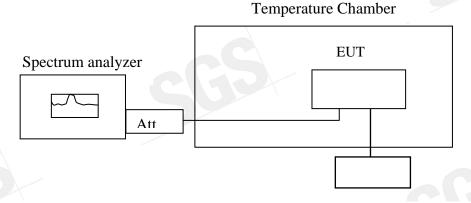
11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

Standard Applicable

According to FCC §2.1055(d)(1)(2)

Frequency Tolerance: +/- 2.5 ppm for 1900MHz band

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	04/27/2008	04/27/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2008	07/03/2009
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	11/11/2007	11/12/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2007	10/06/2008
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2007	10/06/2008
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2007	10/06/2008
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008
DC Power Supply	Agilent	6038A	2929A-07548	06/27/2008	06/26/2009



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Measurement Result

Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C									
	Limit: +/- 2.5 ppm = 4700 Hz								
Power Supply Environment Frequency D. L. CH.									
Vdc	Temperature ($^{\circ}$ C)	(MHz)	Delta (Hz)	Limit (Hz)					
4.48	25	1879.999995	0.00	4700					
3.9	25	1879.999985	10.00	4700					
3.55	25	1879.999982	13.00	4700					
3.1 (Endpoint)	25	1879.999938	57.00	4700					

Note: The battery is rated 3.9V dc.

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12. 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.

	Limits				
Frequency range	dB(uV)				
MHz	Quasi-peak	Average			
0.15 to 0.50	66 to 56	56 to 46			
0.50 to 5	56	46			
5 to 30	60	50			

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:

Conducted Emission Test Site									
EQUIPMENT	EQUIPMENT MFR			LAST	CAL DUE.				
ТҮРЕ		NUMBER	NUMBER	CAL.					
EMC Analyzer	HP	8594EM	3624A00203	09/02/2007	09/03/2008				
EMI Test Receiver	EMI Test Receiver R&S		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	12/31/2007	12/30/2008				
LISN	Rolf-Heine	NNB-2/16Z	99013	01/10/2008	01/09/2009				
Coaxial Cables	N/A	No. 3, 4	N/A	01/11/2008	01/10/2009				

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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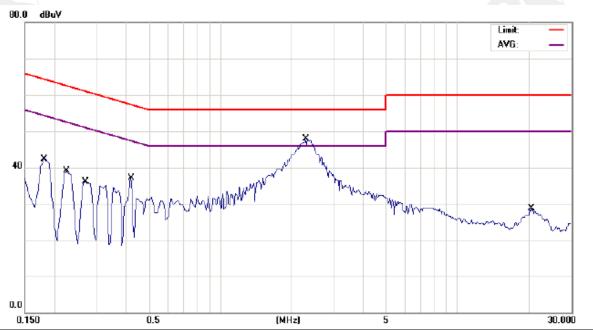


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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 1900 Link		Test Date:	Jul. 01, 2008	
Temperature:	25 ℃	Humidity:	62 %	Test By:	Jazz



Site SGS CONDUCTED #1

Limit: CISPR22/11 Class B Conduction(QP)

EUT: BZ2008S1 M/N: BZ2008S1 Note: opertion

26 °C Phase: Temperature: L1 AC 120V/60Hz Power: Humidity: 58 % Air Pressure:

hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector	Comment
1		0.1800	42.11	0.26	42.37	64.49	-22.12	QP	
2		0.2250	38.96	0.15	39.11	62.63	-23.52	QP	
3		0.2700	35.96	0.14	36.10	61.12	-25.02	QP	
4		0.4200	36.98	0.08	37.06	57.45	-20.39	QP	
5	*	2.2850	45.30	0.04	45.34	56.00	-10.66	QP	
6		2.2850	28.50	0.04	28.54	46.00	-17.46	AVG	
7		20.3800	28.49	0.16	28.65	60.00	-31.35	QP	

Distance:

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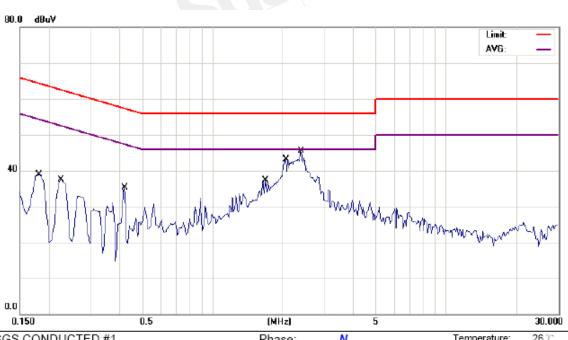
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Site SGS CONDUCTED #1

Limit: CISPR22/11 Class B Conduction(QP)

EUT: BZ2008S1 M/N: BZ2008S1 Note: opertion

rnase.	IV	remperature	. 200
Power:	AC 120V/60Hz	Humidity:	58 %
Distance:		Air Pressure:	hpa

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector	Comment
1	0.1800	38.65	0.24	38.89	64.49	-25.60	QP	
2	0.2250	37.43	0.13	37.56	62.63	-25.07	QP	
3	0.4200	35.21	0.07	35.28	57.45	-22.17	QP	
4	1.6850	37.31	0.03	37.34	56.00	-18.66	QP	
5 *	2.0600	43.11	0.03	43.14	56.00	-12.86	QP	
6	2.3900	42.50	0.03	42.53	56.00	-13.47	QP	
7	2.3900	28.90	0.03	28.93	46.00	-17.07	AVG	

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APPENDIX 1 PHOTOGRAPHS OF SET UP

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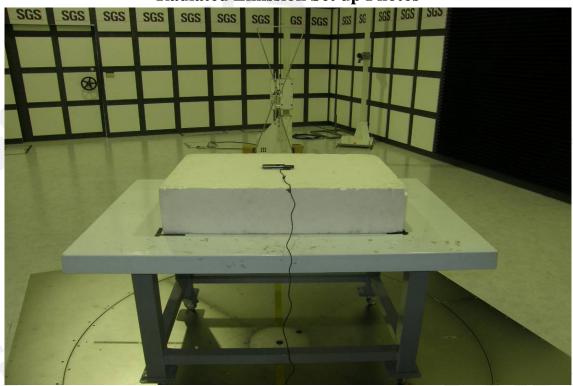
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Radiated Emission Set up Photos





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Conducted Emission Set up Photo





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APPENDIX 2 PHOTOGRAPHS OF EUT

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All of EUT



Top View of EUT



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Bottom View of EUT



Left View of EUT



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Right View of EUT



Front View of EUT



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Back View of EUT



Adaptor



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Open View of EUT - 1



Open View of EUT - 2



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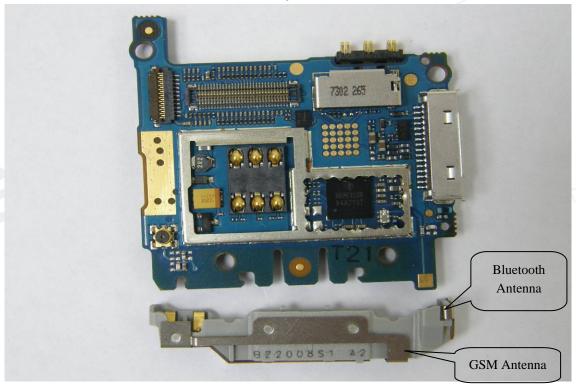
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Open View of EUT - 3



Internal of EUT - 1



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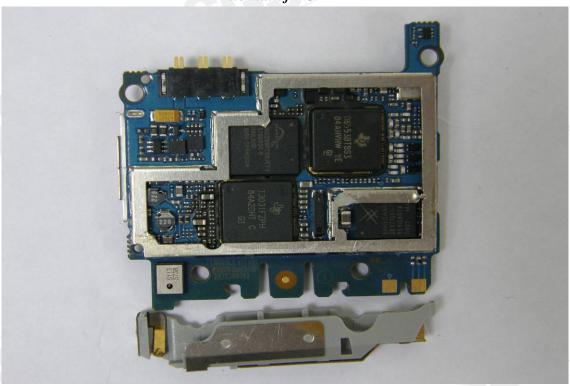
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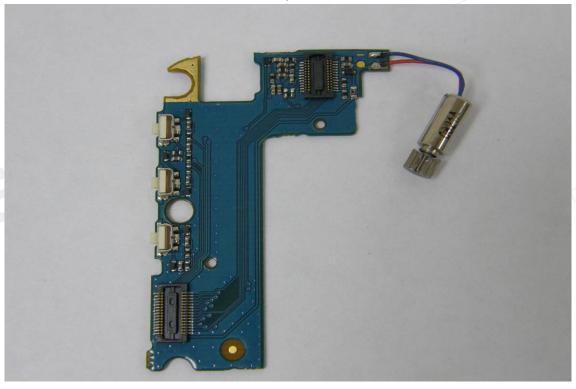
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Internal of EUT - 2



Internal of EUT – 3



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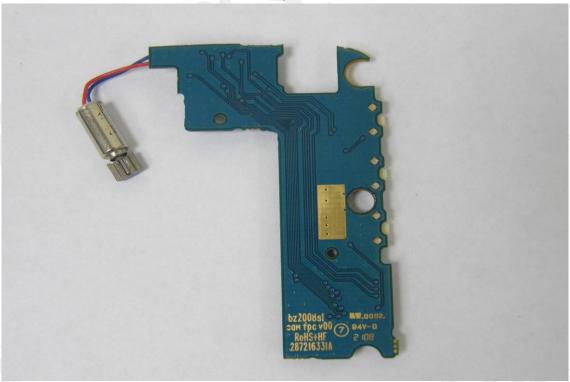
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Internal of EUT - 4



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