

Report No.: ER/2006/C0023 Issue Date: Jan. 10, 2007

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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 850/1900 mobile phone

Brand Name: Alcatel

Model Name: CVLE6 D2

Market Name: OT-E225a

FCC ID: RAD050

Report No.: ER/2006/C00023

Issue Date: Jan. 10, 2007

FCC Rule Part: 2,22H & 24E

Prepared for T&A Mobile Phones

13/F,B2 Block,Digital Technology Yard, Gaoxin Nan Qi Road,Nan Shan District,

Shenzhen, Guangdong, P.R. China

Prepared by SGS Taiwan Ltd.

No. 134, Wu Kung Rd., Wuku Industrial

Zone, Taipei County, Taiwan.

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VERIFICATION OF COMPLIANCE

T&A Mobile Phones

Applicant: 13/F,B2 Block,Digital Technology Yard, Gaoxin Nan Qi Road,Nan Shan

District, Shenzhen, Guangdong, P.R. China

Equipment Under Test: GSM 850/1900 mobile phone

FCC ID Number: RAD050

Brand Name: Alcatel

Model No.: CVLE6 D2

Market name: OT-E225a

Model Difference: N/A

File Number: ER/2006/C0023

Date of test: Dec. 13, 2006 ~ Jan. 09, 2007

Date of EUT Received: Dec. 12, 2006

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. 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-603-1-1998 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:	Jason Whe	Date	Jan. 10, 2007
cs.	Jason Wu / Sr. Engineer		68
Prepared By:	Gigi yeh	Date	Jan. 10, 2007
_	Gigi Yeh / Clerk		
Approved By	Timent Su	Date	Jan. 10, 2007
_	Vincent Su/Manager		

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GENERAL INFORMATION

1.1 Product Description

1.1 Froduct Descriptio			
Product	GSM 850/1800/1900 mobile phone		
Model Name	CVLE6 D2		
Market name:	OT-E225a		
Model Difference:	N/A		
Brand Name	Alcatel		
	3.7 Vdc re-chargeable battery, or		
	Three 5Vdc by AC/DC power adapters as list,		
Power Supply	Model number: 3DS09371AGAA, Supplier: ALCATEL		
	Model number: S002EU0450035, Supplier: ALCATEL		
	Model number: S002EA0450035, Supplier: ALCATEL		

GSM:

Frequency Range and	GSM 850: 824MHz –849MHz	33 dBm		
Power	GSM 1900: 1850MHz –1910MHz 30 dBm			
Type of Emission	300KGXW			
Software Version	N/A			
Hardware Version	N/A	\		

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: RAD050 filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

1.3 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.

1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated

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trial Zone, Taipei Country, Taiwan. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003 and CISPR 22/EN 55022 requirements. Site No. 1(3 &10 meters) Registration Number: 94644, Both OATS and Anechoic chamber (3 meters) was accredited by TAF (0513). Canada Registration Number: 4620A-1

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.

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2. SYSTEM TEST CONFIGURATION

2.1 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.

2.2 EUT Exercise

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

2.3 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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2.4 Configuration of Tested System

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

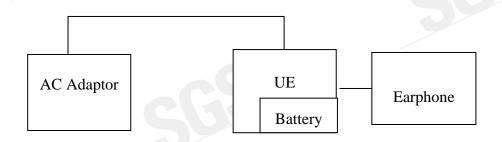


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1	Radio Communication Analyzer	Anritsu	Mt8820A	N/A	shielded	Un-shielded
2	Earphone	N/A	N/A	N/A	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 (H mode) and lie down position (E1, E2 mode) for both GSM and GPRS with all power adaptors, earphone and Data cable. The worst-case E2 mode for GSM 850 band and E1 mode for GSM 1900 band with earphone mode for channel Low, Mid and High at GSM mode was reported.

All test ware carried out for worst case adaptor: S002EA0450035

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RF POWER OUTPUT MEASUREMENT

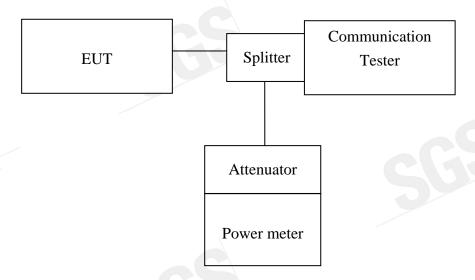
5.1 Standard Applicable

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.

5.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

5.3 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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台灣檢驗科技股份有限公司

SGS Taiwan Ltd.

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5.4 Measurement Equipment Used:

	Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.				
ТҮРЕ		NUMBER	NUMBER	CAL.					
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007				
Spectrum Analyzer	Agilent	E7405A	US41160416	06/28/2006	06/29/2007				
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2006	11/10/2007				
Communication Test	R&S	SMU200	N/A	N/A	N/A				
Power Sensor	Anritsu	MA2490A	31431	06/28/2006	06/29/2007				
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2006	06/29/2007				
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2006	10/13/2007				
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A				
Attenuator	Mini-Circult	BW-S10W5	N/A	09/23/2006	09/22/2007				
Attenuator	Mini-Circult	BW-S6W5	N/A	09/23/2006	09/22/2007				
Splitter	Agilent	11636B	51728	09/23/2006	09/22/2007				
DC Power Supply	TOPWARD	3303A	N/A	N/A	N/A				

5.5 Measurement Result

EUT Mode	Frequency (MHz)	СН	Power meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
	824.20	128	13.58	17.50	31.08
GSM 850	836.60	190	13.65	17.50	31.15
465	848.80	251	13.69	17.50	31.19

EUT Mode	Frequency (MHz) CH		Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
PCS 1900	1850.20	512	11.56	17.50	29.06
	1880.00	661	11.70	17.50	29.20
	1909.80	810	11.53	17.50	29.03

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6. ERP, EIRP MEASUREMENT

6.1 Standard Applicable

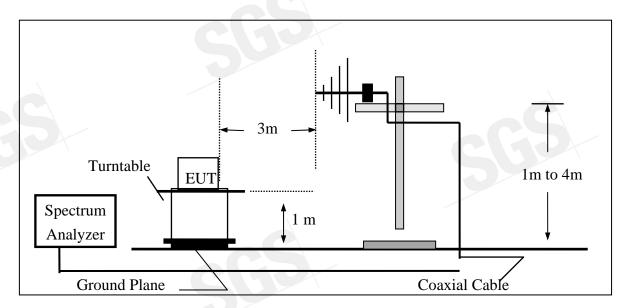
According to FCC §2.1046

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

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

6.2 Test SET-UP (Block Diagram of Configuration)

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



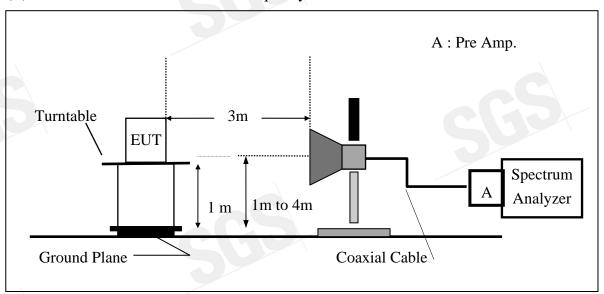
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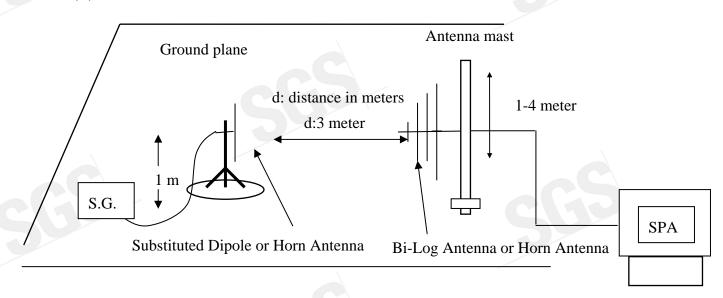
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



Substituted Method Test Set-UP



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6.3 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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6.4 Measurement Equipment Used:

EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
ТҮРЕ		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2006	06/29/2007
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2006	11/10/2007
Communication Test	R&S	SMU200	N/A	N/A	N/A
Bilog Antenna	SCHWAZBECK	VULB9163	152	06/03/2006	06/02/2007
Horn antenna	Schwarzbeck	BBHA 9120D	309/320	08/16/2006	08/15/2007
Pre-Amplifier	HP	8447D	2944A09469	07/19/2006	07/18/2007
Pre-Amplifier	HP	8494B	3008A00578	02/26/2006	02/25/2007
Signal Generator	R&S	SMR40	100210	02/09/2006	02/10/2007
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	10/09/2006	10/08/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2006	10/08/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2006	10/08/2007
Site NSA	SGS	966 chamber	N/A	11/17/2006	11/16/2007
Attenuator	Mini-Circult	BW-S10W5	N/A	09/23/2006	09/22/2007
Dipole Antenna	Schwarzbeck	VHAP	908/909	06/10/2006	06/11/2007
Dipole Antenna	Schwarzbeck	UHAP	891/892	06/10/2006	06/11/2007
Horn antenna	Schwarzbeck	BBHA 9120D	N/A	08/16/2006	08/15/2007

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6.5 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)
			**	V	125.27	38.88	-7.87	3.62	27.38	38.45
			Н	Н	128.71	42.44	-7.87	3.62	30.94	38.45
	00400		E1	V	127.21	40.82	-7.87	3.62	29.32	38.45
	824.20	128	EI	Н	130.21	43.94	-7.87	3.62	32.44	38.45
			E2	V	123.63	37.24	-7.87	3.62	25.74	38.45
				Н	131.17	44.90	-7.87	3.62	33.40	38.45
		190	Н	V	125.69	39.44	-7.88	3.65	27.91	38.45
	836.60			Н	128.61	42.38	-7.88	3.65	30.85	38.45
GG1 1 0 20			E1	V	126.87	40.62	-7.88	3.65	29.09	38.45
GSM 850	830.00	190	EI	Н	130.74	44.51	-7.88	3.65	32.98	38.45
			E2	V	121.99	35.74	-7.88	3.65	24.21	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 38.45 38.45 38.45
	\		EZ	Н	130.77	44.54	-7.88	3.65	27.38 38 30.94 38 29.32 38 32.44 38 25.74 38 33.40 38 27.91 38 30.85 38 29.09 38 32.98 38 24.21 38 33.01 38 26.92 38 31.75 38 29.60 38 32.60 38 23.46 38	38.45
			П	V	124.60	38.48	-7.88	3.68	26.92	38.45
			Н	Н	129.50	43.31	-7.88	3.68	31.75	38.45
	848.80	251	E1	V	127.28	41.16	-7.88	3.68	29.60	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 38.45 38.45
	040.00	231	231 E1	Н	130.35	44.16	-7.88	3.68	32.60	38.45
			E2	V	121.14	35.02	-7.88	3.68	23.46	38.45
			E2	Н	129.77	43.58	-7.88	3.68	32.02	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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6.6 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	122.50	18.11	9.90	5.56	22.45	33.00
				Н	127.37	23.19	9.90	5.56	27.53	33.00
	1070.00	-10	E1	V	130.01	25.62	9.90	5.56	29.96	33.00
	1850.20	512		Н	122.39	18.21	9.90	5.56	22.55	33.00
			E2	V	124.95	20.56	9.90	5.56	24.90	33.00
				Н	129.61	25.43	9.90	5.84	29.49	33.00
		661	H E1	V	122.55	18.19	9.99	5.61	22.57	33.00
	1880.00			Н	126.81	22.67	9.99	5.61	27.04	33.00
				V	129.55	25.19	9.99	5.61	29.57	33.00
PCS 1900	1000.00	001	ΕI	Н	122.68	18.54	9.99	5.61	22.91	33.00
			E2	V	125.44	21.08	9.99	5.61	25.46	n) (dBm) 5 33.00 3 33.00 6 33.00 5 33.00 9 33.00 7 33.00 4 33.00 6 33.00 5 33.00 4 33.00 4 33.00 4 33.00 2 33.00 1 33.00 2 33.00 9 33.00 9 33.00
			E2	Н	129.02	24.88	9.99	5.61	29.25	33.00
			Н	V	123.05	18.72	10.08	5.66	23.14	33.00
			п	Н	126.63	22.52	10.08	5.66	26.94	33.00
	1000.90	010	E1	V	129.43	25.10	10.08	5.66	29.52	33.00
	1909.80	810	810 E1	Н	123.20	19.09	10.08	5.66	23.51	33.00
			E2	V	125.80	21.47	10.08	5.66	24.90 33.00 29.49 33.00 22.57 33.00 27.04 33.00 29.57 33.00 22.91 33.00 25.46 33.00 29.25 33.00 23.14 33.00 29.52 33.00 29.52 33.00 23.51 33.00 25.89 33.00	33.00
			E2	Н	128.97	24.86	10.08	5.66	29.28	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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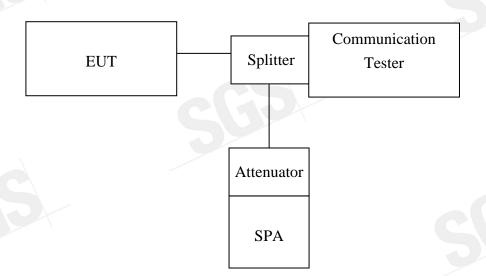
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7. 99% OCCUPIED BANDWIDTH MEASUREMENT

7.1 Standard Applicable

According to §FCC 2.1049.

7.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

7.3 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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台灣檢驗科技股份有限公司

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7.4 Measurement Equipment Used:

Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
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Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2006	06/29/2007			
Power Sensor	Anritsu	MA2490A	31431	06/28/2006	06/29/2007			
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2006	06/29/2007			
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2006	11/12/2007			
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A			
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2006	10/06/2007			
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2006	10/06/2007			
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2006	10/06/2007			
Signal Generator	R&S	SMR40	100210	11/09/2006	11/10/2007			
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2006	01/05/2007			

7.5 Measurement Result:.

EUT Mode Frequency (MHz)		СН	99% Bandwidth (MHz)
	824.20	128	0.2394
GSM 850	836.60	190	0.2405
	848.80	251	0.2401

EUT Mode Frequency (MHz)		СН	99% Bandwidth (MHz)
	1850.20	512	0.2385
PCS 1900	1880.00	661	0.2388
	1909.80	810	0.2835

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Figure 7-1: GSM Channel Low

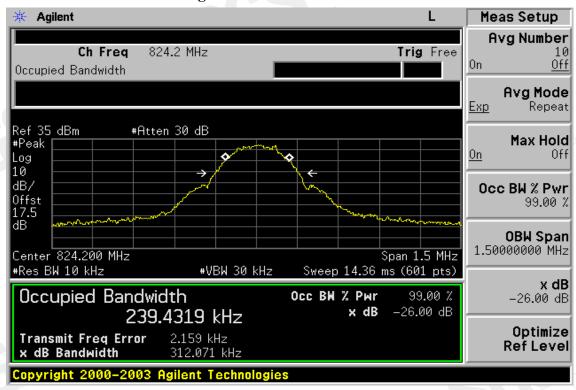
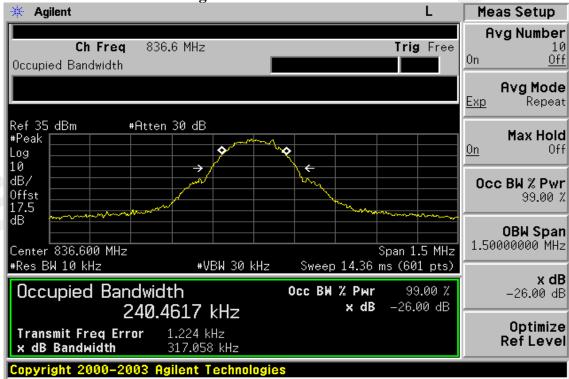


Figure 7-2 GSM Channel Mid



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Figure 7-3: GSM Channel High



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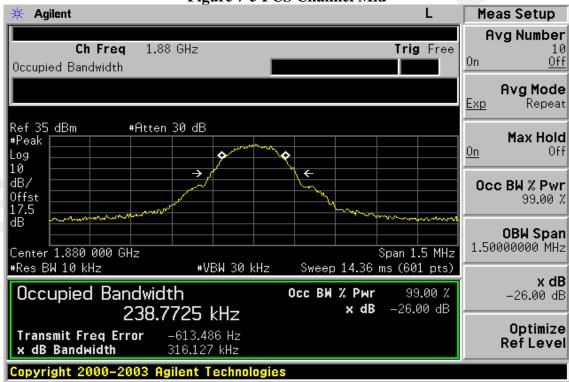
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Figure 7-4: PCS Channel Low



Figure 7-5 PCS Channel Mid



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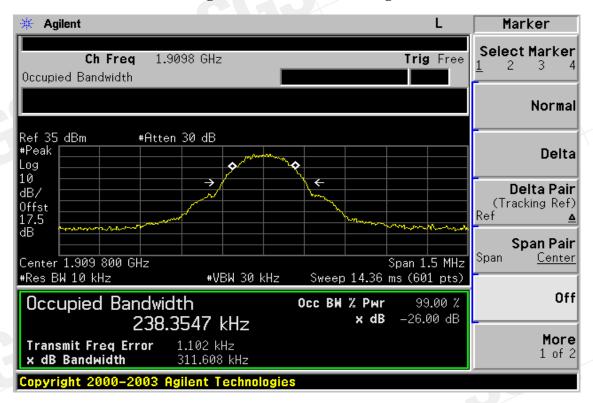
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Figure 7-6: PCS Channel High



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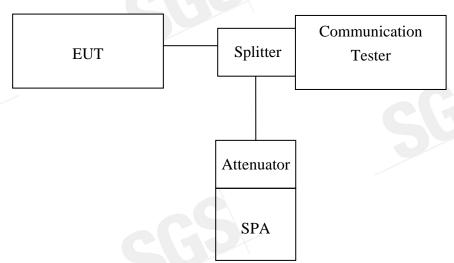
8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1 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)

8.2 Test SET-UP



Note: Measurement setup for testing on Antenna connector

8.3 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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8.4 Measurement Equipment Used:

Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
ТҮРЕ		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007			
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2006	06/29/2007			
Power Sensor	Anritsu	MA2490A	31431	06/28/2006	06/29/2007			
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2006	06/29/2007			
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2006	11/12/2007			
Low Loss Cable	Low Loss Cable HUBER+SUHNER		N/A	N/A	N/A			
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2006	10/06/2007			
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2006	10/06/2007			
Splitter Mini-Circult		ZFSC-2-10G	N/A	10/07/2006	10/06/2007			
Signal Generator	R&S	SMR40	100210	11/09/2006	11/10/2007			
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2006	01/05/2007			

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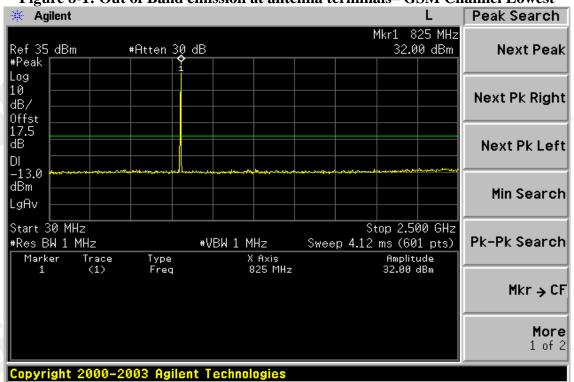


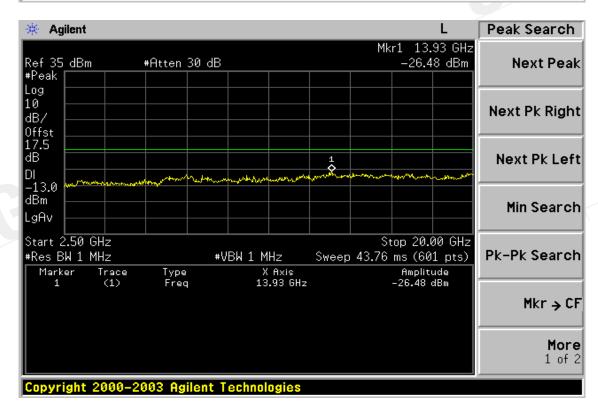
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8.5 Measurement Result

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





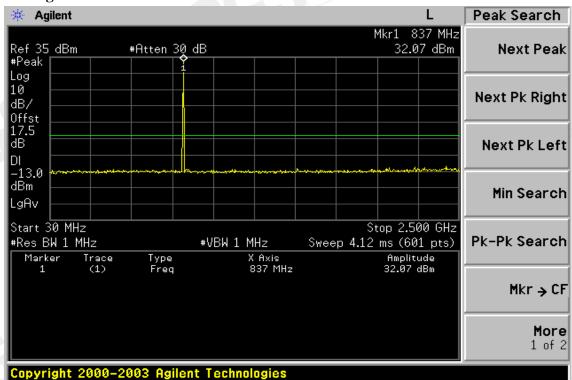
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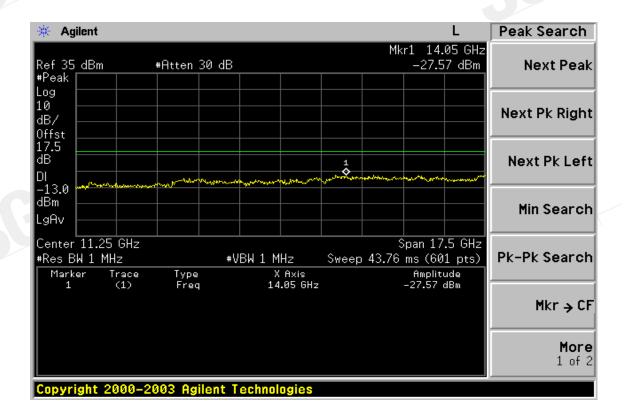


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Figure 8-2: Out of Band emission at antenna terminals -GSM Channel Mid





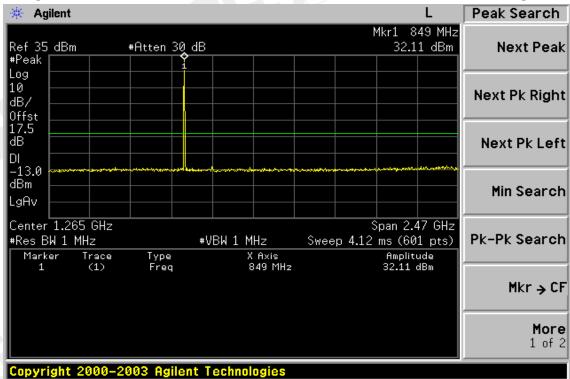
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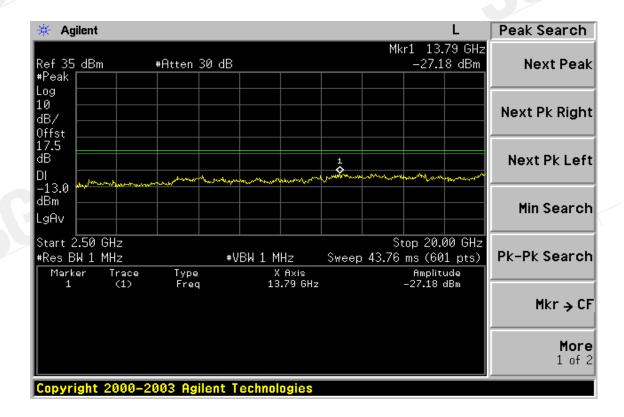


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Figure 8-3: Out of Band emission at antenna terminals-GSM Channel Highest





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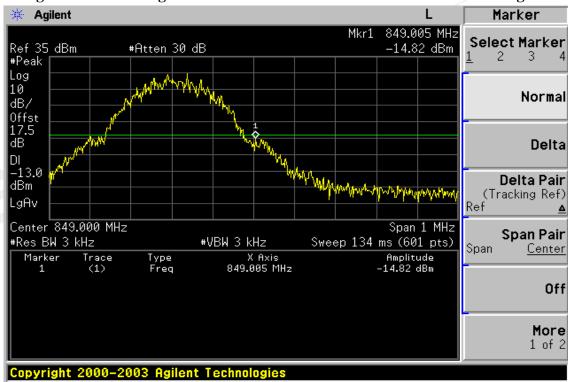
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Figure 8-4: Bad edge emission at antenna terminals – GSM Channel Lowest



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



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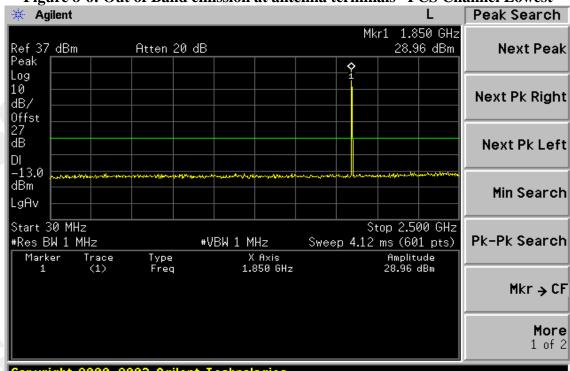
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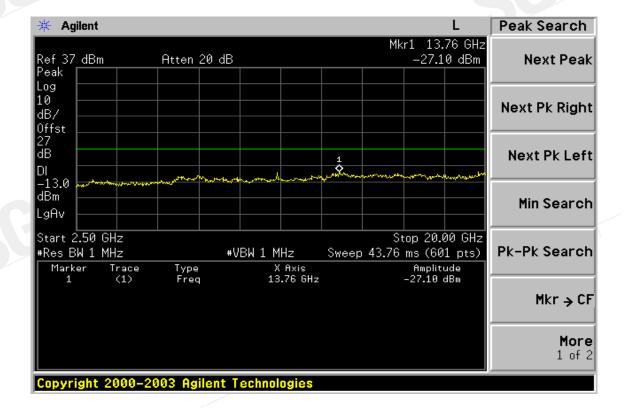
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Figure 8-6: Out of Band emission at antenna terminals- PCS Channel Lowest







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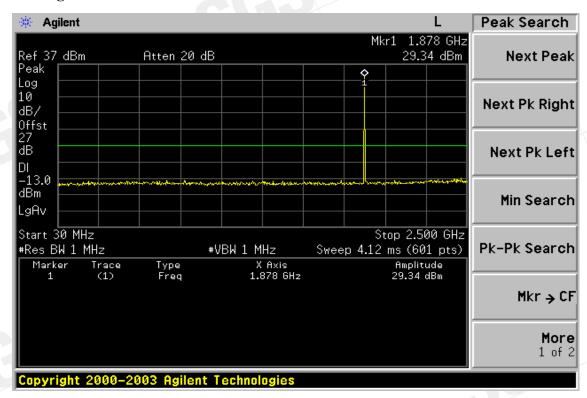
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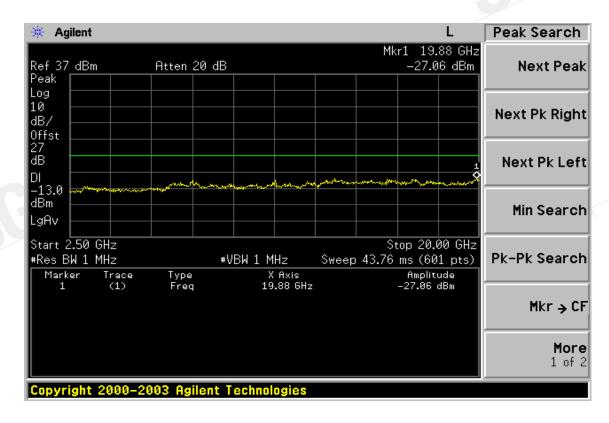


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Figure 8-7: Out of Band emission at antenna terminals -PCS Channel Mid



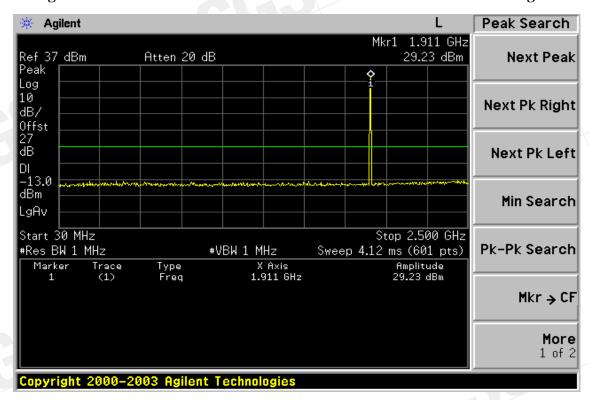


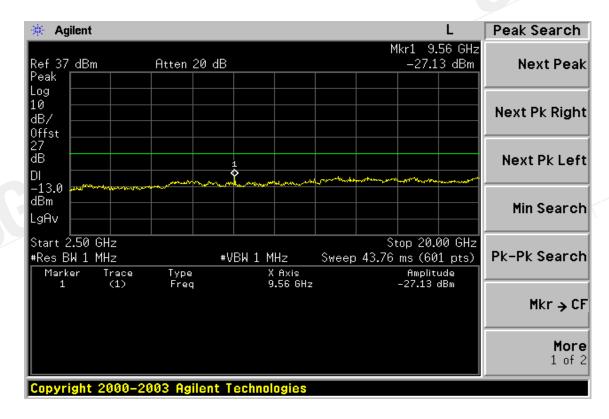


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Figure 8-8: Out of Band emission at antenna terminals-PCS Channel Highest





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

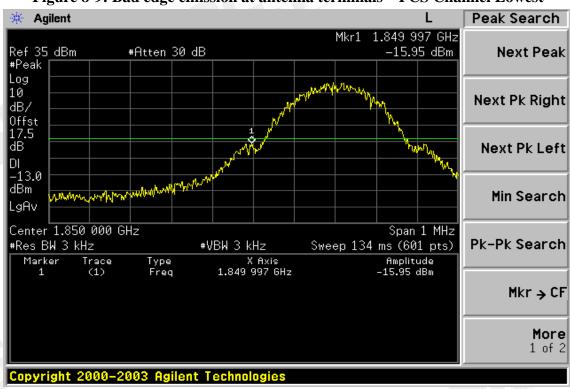
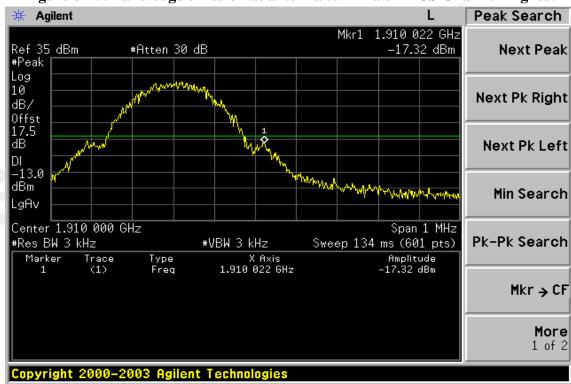


Figure 8-10: Band edge emission at antenna terminals – PCS Channel Highest



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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

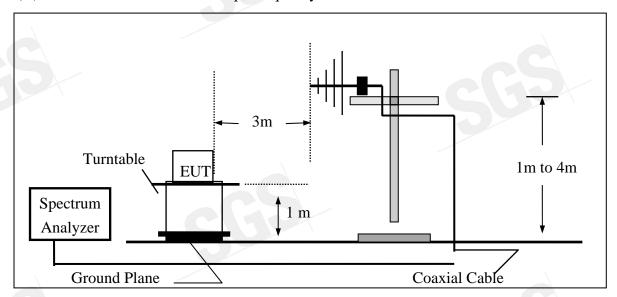
9.1 Standard Applicable

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)

9.2 EUT Setup (Block Diagram of Configuration)

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



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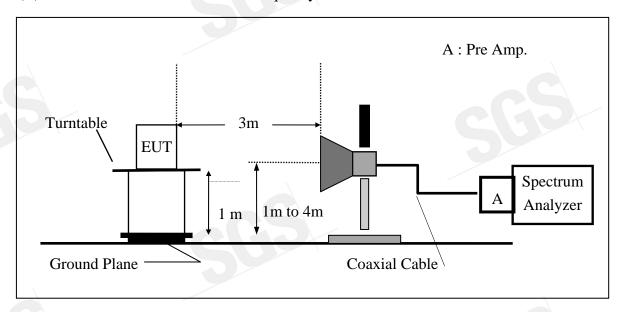
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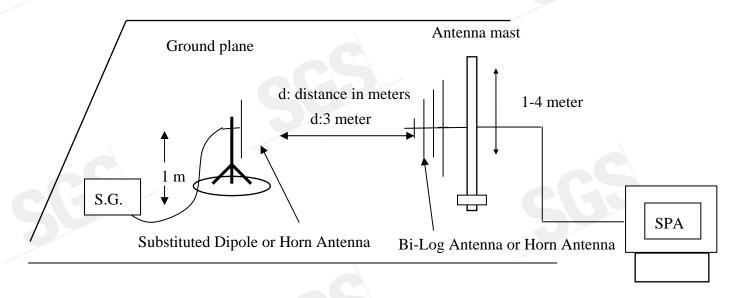
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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9.3 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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9.4 Measurement Equipment Used:

EQUIPMENT		MODEL	SERIAL	LAST	
ТҮРЕ	MFR	NUMBER	NUMBER	CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	E7405A	US41160416	08/27/2006	08/26/2007
Bilog Antenna	SCHWAZBECK	VULB9163	152	06/03/2006	06/02/2007
Horn antenna	Schwarzbeck	BBHA 9120D	309/320	08/16/2006	08/15/2007
Pre-Amplifier	HP	8447D	2944A09469	07/19/2006	07/18/2007
Pre-Amplifier	HP	8494B	3008A00578	02/26/2006	02/25/2007
Signal Generator	R&S	SMR40	100210	02/09/2006	02/10/2007
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	10/09/2006	10/08/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2006	10/08/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2006	10/08/2007
Site NSA	SGS	966 chamber	N/A	11/17/2006	11/16/2007
Site NSA	SGS	10m Open-Site	N/A	10/02/2006	10/01/2007
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2006	10/06/2007
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2006	10/13/2007
Dipole Antenna	Schwarzbeck	VHAP	908/909	06/10/2006	06/11/2007
Dipole Antenna	Schwarzbeck	UHAP	891/892	06/10/2006	06/11/2007
Horn antenna	Schwarzbeck	BBHA 9120D	N/A	08/16/2006	08/15/2007

9.5 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: Jan. 05, 2007

Fundamental Frequency : 824.20 MHz Test By: Jason **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)
30.00	57.34	V	-47.36	-7.34	0.95	-55.65	-13.00	-42.65
75.59	45.41	V	-66.11	-1.85	1.19	-69.16	-13.00	-56.16
96.93	46.21	V	-56.10	-7.76	1.33	-65.19	-13.00	-52.19
823.98	75.76	V	-10.63	-7.87	3.62	-22.13	-13.00	-9.13
1652.50	56.52	V	-48.06	9.30	5.23	-43.99	-13.00	-30.99
2477.50	50.28	V	-50.69	10.07	6.54	-47.16	-13.00	-34.16
4121.00		V		12.65	8.86		-13.00	
4945.20		V		12.65	9.74		-13.00	
5769.40		V		13.55	10.54		-13.00	
6593.60		V		12.05	11.30		-13.00	
7417.80		V		11.49	12.10		-13.00	
8242.00		V		11.48	12.71		-13.00	

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

Remark:

- 1 The emission behaviour 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:
- $4 \text{ ERP/EIRP } (dBm) = SG \text{ Setting}(dBm) + Antenna Gain } (dB/dBi) Cable loss } (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Low E2 Mode Test Date: Jan. 05, 2007

Fundamental Frequency : 824.20 MHz Test By: Jason Temperature Pol: Hor : 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)
30.00	50.68	Н	-55.22	-7.34	0.95	-63.51	-13.00	-50.51
96.93	42.76	Н	-60.47	-7.76	1.33	-69.56	-13.00	-56.56
823.98	81.21	Н	-5.06	-7.87	3.62	-16.56	-13.00	-3.56
1652.00	54.76	Н	-49.64	9.30	5.23	-45.57	-13.00	-32.57
2477.50	46.78	Н	-54.10	10.07	6.54	-50.56	-13.00	-37.56
4121.00		Н		12.65	8.86		-13.00	
4945.20		Н		12.65	9.74		-13.00	
5769.40		Н		13.55	10.54		-13.00	
6593.60		Н		12.05	11.30		-13.00	
7417.80		Н		11.49	12.10		-13.00	
8242.00		Н		11.48	12.71		-13.00	

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

Remark:

- 1 The emission behaviour 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:
- $4 \text{ ERP/EIRP } (dBm) = SG \text{ Setting}(dBm) + Antenna Gain } (dB/dBi) Cable loss } (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Mid E2 Mode Test Date: Jan. 05, 2007

Fundamental Frequency : 836.60 MHz Test By: Jason 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)
30.00	56.29	V	-48.41	-7.34	0.95	-56.70	-13.00	-43.70
96.93	45.96	V	-56.35	-7.76	1.33	-65.44	-13.00	-52.44
1667.50	55.56	V	-49.01	9.35	5.26	-44.92	-13.00	-31.92
2515.00	48.00	V	-52.76	10.10	6.59	-49.25	-13.00	-36.25
3346.40		V		12.28	7.79		-13.00	
4183.00		V		12.62	8.93		-13.00	
5019.60		V		12.67	9.81		-13.00	
5856.20		V		13.68	10.62		-13.00	
6692.80		V		11.95	11.39		-13.00	_
7529.40		V		11.45	12.20		-13.00	
8366.00		V		11.59	12.81		-13.00	

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

Remark:

- 1 The emission behaviour 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: Jan. 05, 2007

Fundamental Frequency : 836.60 MHz Test By: Jason 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)
30.00	50.73	Н	-55.17	-7.34	0.95	-63.46	-13.00	-50.46
67.83	42.71	Н	-69.35	-0.95	1.14	-71.44	-13.00	-58.44
1667.50	52.81	Н	-51.57	9.35	5.26	-47.48	-13.00	-34.48
2515.00	45.97	Н	-54.72	10.10	6.59	-51.20	-13.00	-38.20
3346.40		Н		12.28	7.79		-13.00	
4183.00		Н		12.62	8.93		-13.00	
5019.60		Н		12.67	9.81		-13.00	
5856.20		Н		13.68	10.62		-13.00	
6692.80		Н		11.95	11.39		-13.00	
7529.40		Н		11.45	12.20		-13.00	
8366.00		Н		11.59	12.81		-13.00	

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

Remark:

- 1 The emission behaviour 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 High E2 Mode Test Date: Jan. 05, 2007

Fundamental Frequency : 848.80 MHz Test By: Jason 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)
30.00	56.90	V	-47.80	-7.34	0.95	-56.09	-13.00	-43.09
96.93	45.98	V	-56.33	-7.76	1.33	-65.42	-13.00	-52.42
849.01	76.64	V	-9.48	-7.88	3.68	-21.04	-13.00	-8.04
1690.00	56.93	V	-47.61	9.41	5.30	-43.50	-13.00	-30.50
2552.50	47.23	V	-53.39	10.21	6.64	-49.82	-13.00	-36.82
3395.20		V		12.38	7.87		-13.00	
4244.00		V		12.63	9.00		-13.00	
5092.80		V		12.74	9.88		-13.00	
5941.60		V		13.81	10.70		-13.00	
6790.40		V		11.86	11.48		-13.00	
7639.20		V		11.40	12.27		-13.00	
8488.00		V		11.70	12.91		-13.00	

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

Remark:

- 1 The emission behaviour 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 High E2 Mode Test Date: Jan. 05, 2007

Fundamental Frequency : 848.80 MHz Test By: Jason 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)
30.00	50.42	Н	-55.48	-7.34	0.95	-63.77	-13.00	-50.77
65.89	42.19	Н	-69.66	-0.83	1.12	-71.61	-13.00	-58.61
849.00	82.30	Н	-3.89	-7.88	3.68	-15.45	-13.00	-2.45
1690.00	54.87	Н	-49.49	9.41	5.30	-45.37	-13.00	-32.37
2552.50	50.33	Н	-50.25	10.21	6.64	-46.68	-13.00	-33.68
3395.20		Н		12.38	7.87		-13.00	
4244.00		Н		12.63	9.00		-13.00	
5092.80		Н		12.74	9.88		-13.00	
5941.60		Н		13.81	10.70		-13.00	
6790.40		Н		11.86	11.48		-13.00	
7639.20		Н		11.40	12.27		-13.00	
8488.00		Н		11.70	12.91		-13.00	

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

Remark:

- 1 The emission behaviour 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 E1 Mode Test Date: Jan. 05, 2007

Fundamental Frequency : 1850.20 MHz Test By: Jason 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)
30.00	56.66	V	-48.04	-7.34	0.95	-56.33	-13.00	-43.33
96.93	47.66	V	-54.65	-7.76	1.33	-63.74	-13.00	-50.74
1850.00	83.85	V	-20.54	9.90	5.56	-16.20	-13.00	-3.20
3700.40	40.34	V	-57.59	12.61	8.31	-53.29	-13.00	-40.29
5550.60	43.20	V	-47.64	13.23	10.33	-44.74	-13.00	-31.74
7400.80		V		11.50	12.08		-13.00	
9251.00		V		11.92	13.50		-13.00	
11101.20		V		11.66	15.11		-13.00	
12951.40		V		13.63	16.60		-13.00	
14801.60		V		12.76	17.95		-13.00	
16651.80		V		15.92	19.14		-13.00	
18502.00		V		18.75	10.40		-13.00	

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

Remark:

- 1 The emission behaviour 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 E1 Mode Test Date: Jan. 05, 2007

Fundamental Frequency : 1850.20 MHz Test By: Jason 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)
30.00	50.67	Н	-55.23	-7.34	0.95	-63.52	-13.00	-50.52
41.64	45.75	Н	-57.76	-2.31	0.93	-61.00	-13.00	-48.00
1850.00	74.97	Н	-29.21	9.90	5.56	-24.87	-13.00	-11.87
3700.40	42.94	Н	-55.10	12.61	8.31	-50.80	-13.00	-37.80
5550.60	42.64	Н	-48.41	13.23	10.33	-45.51	-13.00	-32.51
7400.80		Н		11.50	12.08		-13.00	
9251.00		Н		11.92	13.50		-13.00	
11101.20		Н		11.66	15.11		-13.00	
12951.40		Н		13.63	16.60		-13.00	
14801.60		Н		12.76	17.95		-13.00	
16651.80		Н		15.92	19.14		-13.00	
18502.00		Н		18.75	10.40		-13.00	

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

Remark:

- 1 The emission behaviour 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 E1 Mode Test Date: Jan. 05, 2007

Fundamental Frequency: 1880MHz Test By: Jason 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)
30.00	57.05	V	-47.65	-7.34	0.95	-55.94	-13.00	-42.94
96.93	46.61	V	-55.70	-7.76	1.33	-64.79	-13.00	-51.79
3760.00	47.70	V	-49.96	12.60	8.39	-45.74	-13.00	-32.74
5640.00	41.02	V	-49.56	13.36	10.41	-46.61	-13.00	-33.61
7520.00		V		11.45	12.19		-13.00	
9400.00		V		11.93	13.61		-13.00	
11280.00		V		11.92	15.27		-13.00	
13160.00		V		13.33	16.71		-13.00	
15040.00		V		13.76	18.15		-13.00	
16920.00		V		15.27	19.32		-13.00	
18800.00		V		18.68	16.58		-13.00	

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

Remark:

- 1 The emission behaviour 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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Report No.: ER/2006/C0023 FCC ID: RAD050

Issue Date: Jan. 10, 2007

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Mid E1 Mode Test Date: Jan. 05, 2007

Fundamental Frequency: 1880MHz Test By: Jason 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)
30.00	50.67	Н	-55.23	-7.34	0.95	-63.52	-13.00	-50.52
41.64	45.87	Н	-57.64	-2.31	0.93	-60.88	-13.00	-47.88
3760.00	45.11	Н	-52.66	12.60	8.39	-48.45	-13.00	-35.45
5640.00	41.34	Н	-49.41	13.36	10.41	-46.46	-13.00	-33.46
7520.00		Н		11.45	12.19		-13.00	
9400.00		Н		11.93	13.61		-13.00	
11280.00		Н		11.92	15.27		-13.00	
13160.00		Н		13.33	16.71		-13.00	
15040.00		Н		13.76	18.15		-13.00	
16920.00		Н		15.27	19.32		-13.00	
18800.00		Н		18.68	16.58		-13.00	

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

Remark:

- 1 The emission behaviour 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 E1 Mode Test Date: Jan. 05, 2007

Fundamental Frequency : 1909.8 MHz Test By: Jason 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)
30.00	57.34	V	-47.36	-7.34	0.95	-55.65	-13.00	-42.65
77.53	44.66	V	-66.76	-2.12	1.21	-70.09	-13.00	-57.09
96.93	47.12	V	-55.19	-7.76	1.33	-64.28	-13.00	-51.28
1910.00	85.20	V	-19.13	10.08	5.66	-14.71	-13.00	-1.71
3805.00	45.12	V	-52.34	12.60	8.45	-48.18	-13.00	-35.18
5717.50	38.33	V	-52.02	13.48	10.49	-49.03	-13.00	-36.03
5972.40		V		13.86	10.73		-13.00	
7963.20		V		11.27	12.49		-13.00	
9954.00		V		12.08	14.24		-13.00	
11944.80		V		13.08	15.87		-13.00	
13935.60		V		11.82	17.21		-13.00	
15926.40		V		17.08	18.70		-13.00	
17917.20		V		9.63	19.97		-13.00	
19908.00		V		18.88	21.24		-13.00	

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

Remark:

- 1 The emission behaviour 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:
- $4 \text{ ERP/EIRP } (dBm) = SG \text{ Setting}(dBm) + Antenna Gain } (dB/dBi) Cable loss } (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH High E1 Mode Test Date: Jan. 05, 2007

Fundamental Frequency : 1909.8 MHz Test By: Jason 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)
30.00	49.14	Н	-56.76	-7.34	0.95	-65.05	-13.00	-52.05
439.34	44.01	Н	-50.42	-7.69	2.63	-60.74	-13.00	-47.74
1910.00	75.71	Н	-28.40	10.08	5.66	-23.98	-13.00	-10.98
3805.00	42.91	Н	-54.66	12.60	8.45	-50.51	-13.00	-37.51
5972.40		Н		13.86	10.73		-13.00	
7963.20		Н		11.27	12.49		-13.00	
9954.00		Н		12.08	14.24		-13.00	
11944.80		Н		13.08	15.87		-13.00	
13935.60		Н		11.82	17.21		-13.00	
15926.40		Н		17.08	18.70		-13.00	
17917.20		Н		9.63	19.97		-13.00	
17188.20		Н		14.47	19.52		-13.00	

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

Remark:

- 1 The emission behaviour 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

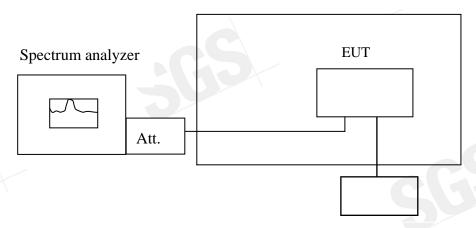
10.1 Standard Applicable

According to FCC §2.1055(a)(1)(b).

Frequency Tolerance: 2.5 ppm

10.2 Test Set-up:

Temperature Chamber



Variable Power Supply

Note: Measurement setup for testing on Antenna connector

10.3 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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10.4 Measurement Equipment Used:

Conducted Emission Test Site							
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.		
TYPE		NUMBER	NUMBER	CAL.			
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007		
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2006	06/29/2007		
Power Sensor	Anritsu	MA2490A	31431	06/28/2006	06/29/2007		
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2006	06/29/2007		
Temperature Chamber	TERCHY	MHG-120LF 911009		11/11/2006	11/12/2007		
Low Loss Cable	HUBER+SUHNE R	SUCOFLEX 104PEA	N/A	N/A	N/A		
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2006	10/06/2007		
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2006	10/06/2007		
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2006	10/06/2007		
Signal Generator	R&S	SMR40	100210	11/09/2006	11/10/2007		
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2006	01/05/2007		

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10.5 Measurement Result

Re	eference Frequency:	GSM Mid Chann	el 836.6 MHz @ 2	5°C
\	Limit	+/- 2.5 ppm = 20	91 Hz	\
Power Supply	Environment	Frequency	Dolto (Hz)	Limit (Hz)
Vdc	Temperature ($^{\circ}$ C)	(MHz)	Delta (Hz)	Limit (Hz)
3.7	-30	836.599998	-5.00	2091
3.7	-20	836.599995	-8.00	2091
3.7	-10	836.599997	-6.00	2091
3.7	0	836.600000	-3.00	2091
3.7	10	836.600001	-2.00	2091
3.7	20	836.600003	0.00	2091
3.7	30	836.600006	3.00	2091
3.7	40	836.600010	7.00	2091
3.7	50	836.600008	5.00	2091

R	eference Frequency	: PCS Mid Channe	el 1880 MHz @ 25	$^{\circ}\mathbb{C}$
	Limit	+/- 2.5 ppm = 470	00 Hz	
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Uz)
Vdc	Temperature (°C)	(MHz)	Della (HZ)	Limit (Hz)
3.7	25	1880.000003	-2.00	4700
3.7	-30	1880.000004	-1.00	4700
3.7	-20	1880.000006	1.00	4700
3.7	-10	1880.000009	4.00	4700
3.7	0	1880.000013	8.00	4700
3.7	10	1880.000011	6.00	4700
3.7	20	1880.000005	0.00	4700
3.7	30	1880.000019	14.00	4700
3.7	40	1880.000021	16.00	4700
3.7	50	1880.000015	10.00	4700

Note: The battery is rated 3.7V dc.

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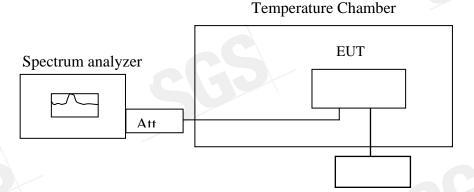
11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

11.1 Standard Applicable

According to FCC §2.1055(d)(1)(2)

Frequency Tolerance: 2.5 ppm

11.2 Test Set-up:



Variable DC Power Supply

Note: Measurement setup for testing on Antenna connector

11.3 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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11.4 Measurement Equipment Used:

Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007			
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2006	06/29/2007			
Power Sensor	Anritsu	MA2490A	31431	06/28/2006	06/29/2007			
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2006	06/29/2007			
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2006	11/12/2007			
Low Loss Cable	HUBER+SUHNE R	SUCOFLEX 104PEA	N/A	N/A	N/A			
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2006	10/06/2007			
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2006	10/06/2007			
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2006	10/06/2007			
Signal Generator	R&S	SMR40	100210	11/09/2006	11/10/2007			
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2006	01/05/2007			

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11.5 Measurement Result

R	eference Frequency	: GSM Mid Channe	el 836.6 MHz @ 25	$^{\circ}$
	Limit	:: +/- 2.5 ppm = 209	91 Hz	
Power Supply	Environment	Frequency	Dolto (Hz)	Limit (Hz)
Vdc	Temperature ($^{\circ}$ C)	(MHz)	Delta (Hz)	Limit (Hz)
3.70	25.00	836.600003	0.00	2091.00
3.30	25.00	836.599374	-629.0	2091.00
4.26	25.00	836.600007	-4.00	2091.00
3.20	25.00	926 500129	975.0	2001.00
(End Point)	25.00	836.599128	-875.0	2091.00

F	Reference Frequency	: PCS Mid Channe	el 1880 MHz @ 25°	C
		:: +/- 2.5 ppm = 470		
Power Supply	Environment	Frequency	Dalta (III)	Limit (II-)
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Limit (Hz)
3.7	25	1880.000003	0.00	4700
3.3	25	1879.999886	-117.0	4700
4.2	25	1880.000011	8.00	4700
3.2	25	1070 000705	1210	4700
(Endpoint)	25	1879.998785	-1218	4700

Note: The battery is rated 3.7V dc.

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12. AC POWER LINE CONDUCTED EMISSION TEST

12.1 Standard Applicable

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

	Lin	mits
Frequency range	(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

12.2 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.

12.3 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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12.4 Measurement Equipment Used:

4 11 7								
Conducted Emission Test Site								
EQUIPMENT	MFR	MFR MODEL		LAST	CAL DUE.			
ТҮРЕ		NUMBER	NUMBER	CAL.				
EMC Analyzer	HP	8594EM	3624A00203	09/02/2006	09/03/2007			
EMI Test Receiver	R&S	ESCS30	828985/004	06/09/2006	06/10/2007			
Transient Limiter	HP	11947A	3107A02062	09/02/2006	09/03/2007			
LISN	Rolf-Heine	NNB-2/16Z	99012	12/31/2006	12/30/2007			
LISN	Rolf-Heine	NNB-2/16Z	99013	12/24/2006	12/23/2007			
Coaxial Cables	N/A	No. 3, 4	N/A	12/24/2006	12/23/2007			

12.5 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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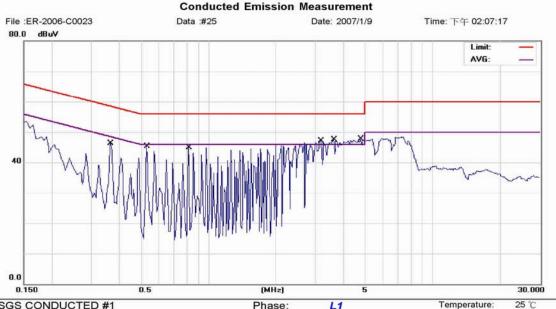


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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 850 +LINK			Test Date:	Jan. 09, 2007
Temperature:	25 ℃	Humidity:	62 %	Test By:	Jason
Adaptor Model:	3DS09371AGAA				



Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED #1

Limit: CISPR22 Class B Conduction(QP)

EUT: GSM 850/1900 mobile phone

M/N: CVLE6 D2

Note: GSM850 // Link mode // adapter: 3DS09371AGAA(New)

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.3650	47.00	0.60	47.60	58.61	-11.01	QP	
2	0.3650	44.20	0.60	44.80	48.61	-3.81	AVG	
3	0.5300	43.60	0.66	44.26	56.00	-11.74	QP	
4	0.5300	40.50	0.66	41.16	46.00	-4.84	AVG	
5	0.8150	43.90	0.75	44.65	56.00	-11.35	QP	
6	0.8150	41.80	0.75	42.55	46.00	-3.45	AVG	
7	3.1850	45.10	0.92	46.02	56.00	-9.98	QP	
8	3.1850	40.70	0.92	41.62	46.00	-4.38	AVG	
9	3.6350	46.10	0.95	47.05	56.00	-8.95	QP	
10	3.6350	41.80	0.95	42.75	46.00	-3.25	AVG	
11	4.7750	46.30	1.00	47.30	56.00	-8.70	QP	
12 *	4.7750	41.90	1.00	42.90	46.00	-3.10	AVG	

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Humidity:

Air Pressure:

hpa

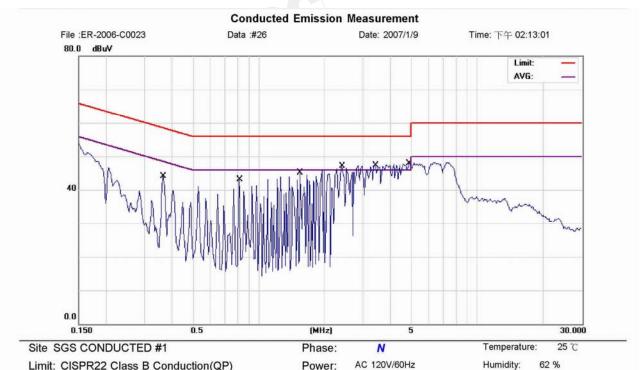


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Air Pressure:

hpa



Distance:

Limit: CISPR22 Class B Conduction(QP)

EUT: GSM 850/1900 mobile phone

M/N: CVLE6 D2

Note: GSM850 // Link mode // adapter: 3DS09371AGAA(New)

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.3650	43.80	0.60	44.40	58.61	-14.21	QP	
2	0.3650	39.00	0.60	39.60	48.61	-9.01	AVG	
3	0.8150	42.10	0.75	42.85	56.00	-13.15	QP	
4	0.8150	41.00	0.75	41.75	46.00	-4.25	AVG	
5	1.5500	43.90	0.88	44.78	56.00	-11.22	QP	
6	1.5500	41.20	0.88	42.08	46.00	-3.92	AVG	
7	2.4050	45.80	0.97	46.77	56.00	-9.23	QP	
8 *	2.4050	42.60	0.97	43.57	46.00	-2.43	AVG	
9	3.4250	45.10	1.03	46.13	56.00	-9.87	QP	
10	3.4250	42.30	1.03	43.33	46.00	-2.67	AVG	
11	4.8950	45.60	1.10	46.70	56.00	-9.30	QP	
12	4.8950	41.80	1.10	42.90	46.00	-3.10	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 1900 +LINK	ζ		Test Date:	Jan. 09, 2007
Temperature:	25 ℃	Humidity:	62 %	Test By:	Jason

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Report No.: ER/2006/C0023 Issue Date: Jan. 10, 2007

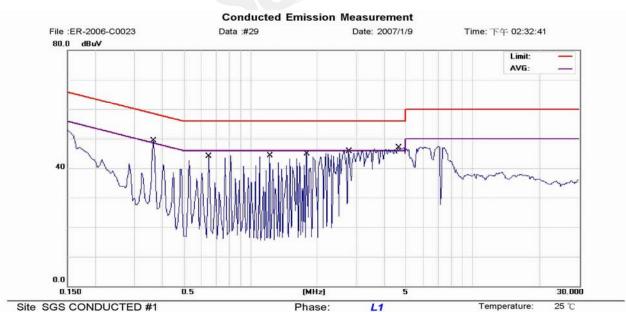
Page: 61

Humidity:

Air Pressure:

hpa

3DS09371AGAA Adaptor Model:



Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED #1

Limit: CISPR22 Class B Conduction(QP)

EUT: GSM 850/1900 mobile phone

M/N: CVLE6 D2

Note: GSM1900 // Link mode // adapter: 3DS09371AGAA(New)

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3650	48.30	0.60	48.90	58.61	-9.71	QP	
2	*	0.3650	44.80	0.60	45.40	48.61	-3.21	AVG	
3		0.6500	43.10	0.70	43.80	56.00	-12.20	QP	
4		0.6500	39.10	0.70	39.80	46.00	-6.20	AVG	
5		1.2200	42.98	0.82	43.80	56.00	-12.20	QP	
6		1.2200	41.10	0.82	41.92	46.00	-4.08	AVG	
7		1.7900	43.40	0.83	44.23	56.00	-11.77	QP	
8		1.7900	40.80	0.83	41.63	46.00	-4.37	AVG	
9		2.7650	43.80	0.89	44.69	56.00	-11.31	QP	
10		2.7650	41.00	0.89	41.89	46.00	-4.11	AVG	
11		4.6400	44.90	0.99	45.89	56.00	-10.11	QP	
12		4.6400	41.30	0.99	42.29	46.00	-3.71	AVG	

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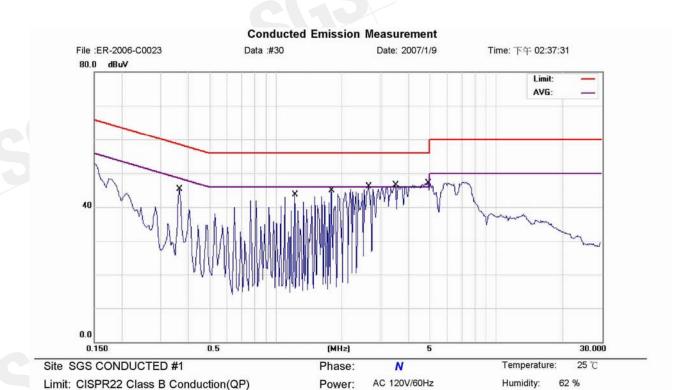


Report No.: ER/2006/C0023 Issue Date: Jan. 10, 2007

Page: 62

Air Pressure:

hpa



EUT: GSM 850/1900 mobile phone M/N: CVLE6 D2

Note: GSM1900 // Link mode // adapter: 3DS09371AGAA(New)

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.3650	43.50	0.60	44.10	58.61	-14.51	QP	
2	0.3650	40.00	0.60	40.60	48.61	-8.01	AVG	
3	1.2200	42.60	0.84	43.44	56.00	-12.56	QP	
4	1.2200	40.80	0.84	41.64	46.00	-4.36	AVG	
5	1.7900	43.80	0.91	44.71	56.00	-11.29	QP	
6	1.7900	40.30	0.91	41.21	46.00	-4.79	AVG	
7	2.6450	44.50	0.98	45.48	56.00	-10.52	QP	
8	2.6450	41.50	0.98	42.48	46.00	-3.52	AVG	
9	3.5000	44.60	1.04	45.64	56.00	-10.36	QP	
10	3.5000	40.30	1.04	41.34	46.00	-4.66	AVG	
11	4.9250	44.90	1.10	46.00	56.00	-10.00	QP	
12 *	4.9250	41.70	1.10	42.80	46.00	-3.20	AVG	

Distance:

AC POWER LINE CONDUCTED EMISSION TEST DATA

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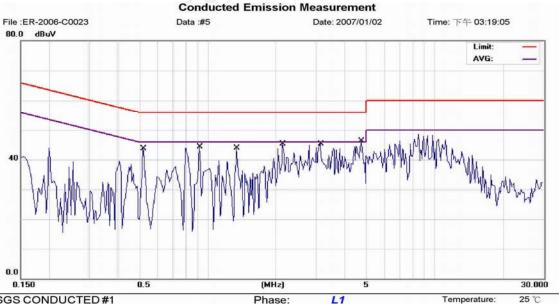
Page: 63

Humidity:

Air Pressure:

62 %

Operation Mode:	GSM 850 + Link			Test Date:	Jan. 02, 2007
Temperature:	25 ℃	Humidity:	62 %	Test By:	Jason
Adaptor Model:	S002EU0450035				



Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: CISPR22 Class B Conduction(QP)

EUT: GSM 850/1900 mobile phone

M/N: CVLE6 D2

Note: GSM850 // Link mode // adapter: S002EU0450035

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1	0.5200	35.60	0.02	35.62	56.00	-20.38	QP		
2	0.5200	21.90	0.02	21.92	46.00	-24.08	AVG		
3	0.9200	34.30	0.01	34.31	56.00	-21.69	QP		
4	0.9200	21.90	0.01	21.91	46.00	-24.09	AVG		
5	1.3400	33.10	0.02	33.12	56.00	-22.88	QP		
6	1.3400	23.60	0.02	23.62	46.00	-22.38	AVG		
7	2.1400	34.80	0.04	34.84	56.00	-21.16	QP		
8	2.1400	25.30	0.04	25.34	46.00	-20.66	AVG		
9	3.1400	35.80	0.06	35.86	56.00	-20.14	QP		
10	3.1400	27.90	0.06	27.96	46.00	-18.04	AVG		
11	4.7600	33.60	0.09	33.69	56.00	-22.31	QP		
12 *	4.7600	28.40	0.09	28.49	46.00	-17.51	AVG		

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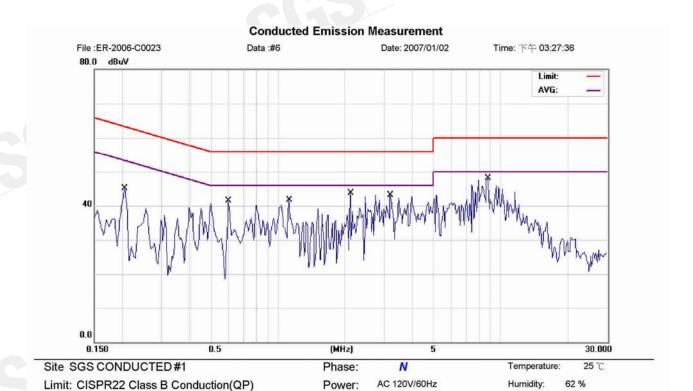


Report No.: ER/2006/C0023 Issue Date: Jan. 10, 2007

Page: 64

Air Pressure:

hpa



EUT: GSM 850/1900 mobile phone M/N: CVLE6 D2

Note: GSM850 // Link mode // adapter: S002EU0450035

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.2050	45.12	0.02	45.14	63.41	-18.27	QP	
2	0.6000	41.43	0.02	41.45	56.00	-14.55	QP	
3	1.1200	41.77	0.01	41.78	56.00	-14.22	QP	
4	2.1200	43.75	0.04	43.79	56.00	-12.21	QP	
5	3.2000	43.14	0.06	43.20	56.00	-12.80	QP	
6 *	8.8000	47.99	0.13	48.12	60.00	-11.88	QP	

Distance:

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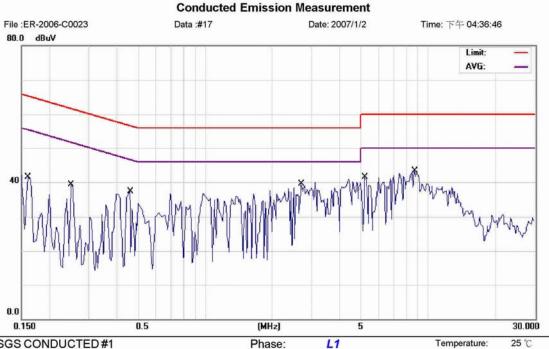


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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 1900 + Lin	ık		Test Date:	Jan. 02, 2007
Temperature:	25 ℃	Humidity:	62 %	Test By:	Jason
Adaptor Model:	S002EU0450035	,			



AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: CISPR22 Class B Conduction(QP)

EUT: GSM 850/1900 mobile phone

M/N: CVLE6 D2

Note: GSM1900 // Link mode // adapter: S002EU0450035

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1	0.1600	41.58	0.00	41.58	65.46	-23.88	QP		
2	0.2500	39.36	0.02	39.38	61.76	-22.38	QP		
3	0.4600	37.19	0.02	37.21	56.69	-19.48	QP		
4 *	2.7000	39.49	0.05	39.54	56.00	-16.46	QP		
5	5.2000	41.47	0.09	41.56	60.00	-18.44	QP		
6	8.7200	43.19	0.13	43.32	60.00	-16.68	QP		

Power:

Distance:

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Humidity:

Air Pressure:

hpa



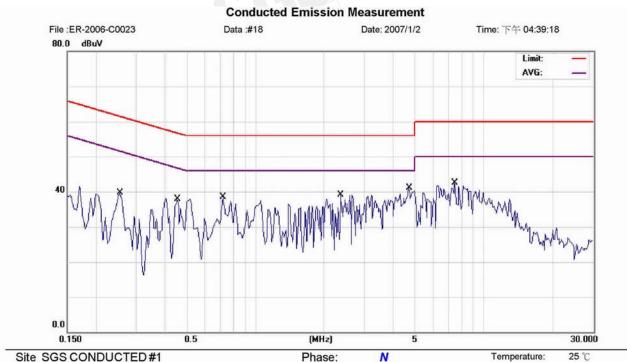
Report No.: ER/2006/C0023 **Issue Date: Jan. 10, 2007**

Humidity:

Air Pressure:

hpa

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Site SGS CONDUCTED#1

Limit: CISPR22 Class B Conduction(QP)

EUT: GSM 850/1900 mobile phone

M/N: CVLE6 D2

Note: GSM1900 // Link mode // adapter: S002EU0450035

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.2550	39.63	0.02	39.65	61.59	-21.94	QP	
2	0.4550	37.83	0.02	37.85	56.78	-18.93	QP	
3	0.7200	38.42	0.02	38.44	56.00	-17.56	QP	
4	2.3600	39.09	0.05	39.14	56.00	-16.86	QP	
5 *	4.7000	41.01	0.09	41.10	56.00	-14.90	QP	
6	7.4800	42.45	0.11	42.56	60.00	-17.44	QP	

Power:

Distance:

AC 120V/60Hz

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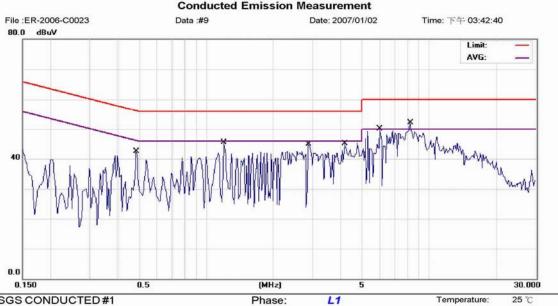


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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 850 + Link	ζ		Test Date:	Jan. 02, 2007
Temperature:	25 ℃	Humidity:	62 %	Test By:	Jason
Adaptor Model:	S002EA0450035	5			



Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: CISPR22 Class B Conduction(QP)

EUT: GSM 850/1900 mobile phone

M/N: CVLE6 D2

Note: GSM850 // Link mode // adapter: S002EA0450035

No. MI	. Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.4850	37.32	0.02	37.34	56.25	-18.91	QP	
2	0.4850	25.38	0.02	25.40	46.25	-20.85	AVG	
3	1.2000	37.80	0.02	37.82	56.00	-18.18	QP	
4	1.2000	25.30	0.02	25.32	46.00	-20.68	AVG	
5	2.8800	38.40	0.05	38.45	56.00	-17.55	QP	
6	2.8800	24.65	0.05	24.70	46.00	-21.30	AVG	
7	4.1800	37.90	0.08	37.98	56.00	-18.02	QP	
8	4.1800	27.90	0.08	27.98	46.00	-18.02	AVG	
9	6.0000	41.80	0.10	41.90	60.00	-18.10	QP	
10	6.0000	30.60	0.10	30.70	50.00	-19.30	AVG	
11 *	8.2000	45.90	0.12	46.02	60.00	-13.98	QP	
12	8.2000	32.20	0.12	32.32	50.00	-17.68	AVG	

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Humidity:

Air Pressure:

62 %

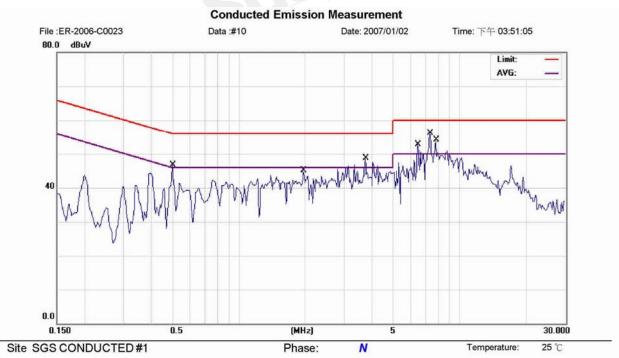


Report No.: ER/2006/C0023 Issue Date: Jan. 10, 2007

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Humidity:

Air Pressure:



Power:

Distance:

AC 120V/60Hz

Limit: CISPR22 Class B Conduction(QP) EUT: GSM 850/1900 mobile phone

M/N: CVLE6 D2

Note: GSM850 // Link mode // adapter: S002EA0450035

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.5000	39.80	0.02	39.82	56.00	-16.18	QP	
2		0.5000	26.90	0.02	26.92	46.00	-19.08	AVG	
3		1.9600	37.60	0.04	37.64	56.00	-18.36	QP	
4		1.9600	25.60	0.04	25.64	46.00	-20.36	AVG	
5		3.7400	38.20	0.07	38.27	56.00	-17.73	QP	
6		3.7400	30.20	0.07	30.27	46.00	-15.73	AVG	
7		6.4800	46.50	0.10	46.60	60.00	-13.40	QP	
8		6.4800	35.60	0.10	35.70	50.00	-14.30	AVG	
9	*	7.3600	47.90	0.11	48.01	60.00	-11.99	QP	
10		7.3600	34.80	0.11	34.91	50.00	-15.09	AVG	
11		7.8400	45.60	0.12	45.72	60.00	-14.28	QP	
12		7.8400	32.80	0.12	32.92	50.00	-17.08	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

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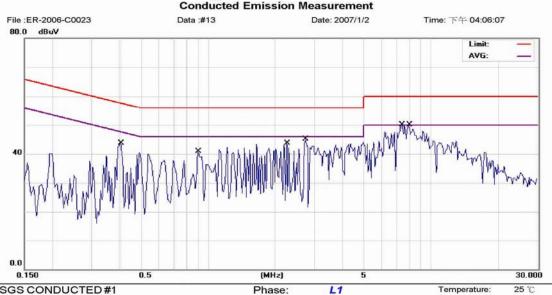
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Humidity:

Air Pressure:

Operation Mode:	GSM 190	0 + Link		Test Date:	Jan. 02, 2007
Temperature:	25 ℃	Humidity:	62 %	Test By:	Jason
Adaptor Model:	S002EA0	450035			



Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: CISPR22 Class B Conduction(QP)

EUT: GSM 850/1900 mobile phone

M/N: CVLE6 D2

Note: GSM1900 // Link mode // adapter: S002EA0450035

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4050	42.70	0.02	42.72	57.75	-15.03	QP	
2		0.4050	29.20	0.02	29.22	47.75	-18.53	AVG	
3		0.9000	37.80	0.01	37.81	56.00	-18.19	QP	
4	*	0.9000	35.80	0.01	35.81	46.00	-10.19	AVG	
5		2.2600	37.90	0.04	37.94	56.00	-18.06	QP	
6		2.2600	24.60	0.04	24.64	46.00	-21.36	AVG	
7		2.7400	38.60	0.05	38.65	56.00	-17.35	QP	
8		2.7400	25.50	0.05	25.55	46.00	-20.45	AVG	
9		7.4000	45.60	0.11	45.71	60.00	-14.29	QP	
10		7.4000	34.60	0.11	34.71	50.00	-15.29	AVG	
11		8.0000	46.90	0.12	47.02	60.00	-12.98	QP	
12		8.0000	32.90	0.12	33.02	50.00	-16.98	AVG	

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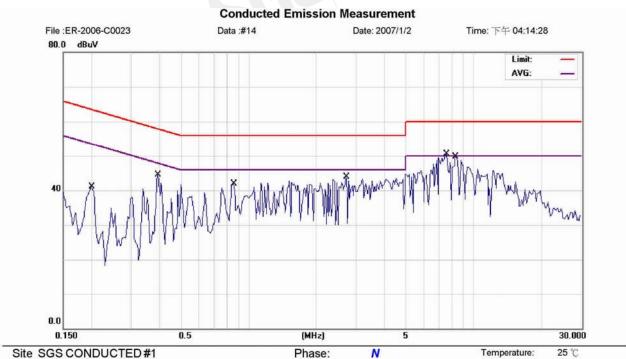
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Humidity:

Air Pressure:

hpa



Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: CISPR22 Class B Conduction(QP)

EUT: GSM 850/1900 mobile phone

M/N: CVLE6 D2

Note: GSM1900 // Link mode // adapter: S002EA0450035

No. N	۸k.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2000	41.07	0.02	41.09	63.61	-22.52	QP	
2		0.3950	44.51	0.02	44.53	57.96	-13.43	QP	
3		0.8600	41.90	0.01	41.91	56.00	-14.09	QP	
4 *	r	2.7200	43.87	0.05	43.92	56.00	-12.08	QP	
5		7.6000	46.50	0.12	46.62	60.00	-13.38	QP	
6		7.6000	33.70	0.12	33.82	50.00	-16.18	AVG	
7		8.3200	44.80	0.12	44.92	60.00	-15.08	QP	
8		8.3200	32.20	0.12	32.32	50.00	-17.68	AVG	

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