

Global United Technology Service Co., Ltd.

Report No: GTSE10090018401

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant: Shenzhen Konka Telecommunications Technology Co., Ltd.

Address of 9008, ShenNan Road Overseas Chinese Town

Applicant:

Equipment Under Test (EUT)

Name: GSM Dual Band GPRS Digital Mobile Phone

Model No.: LX11
Trademark: LANIX

FCC ID: UT3KKW512

Standards: FCC CFR Title 47 Part 2, Part22H &24E

Date of Receipt: 10 Sep. 2010

Date of Test: 10-13 Sep. 2010

Date of Issue: 14 Sep. 2010

Test Result: PASS *

Authorized Signature:

Robinson Lo Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of GTS International Electrical Approvals or testing done by GTS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by GTS International Electrical Approvals in writing.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

^{*} In the configuration tested, the EUT complied with the standards specified above.



2 **Contents**

		F	Page
1	CC	OVER PAGE	1
2	CC	ONTENTS	2
3	TE	EST SUMMARY	
4	GE	ENERAL INFORMATION	5
	4.1	CLIENT INFORMATION	5
	4.2	GENERAL DESCRIPTION OF E.U.T.	
	4.3	RELATED SUBMITTAL(S) / GRANT (S)	5
	4.4	TEST METHODOLOGY	
	4.5	TEST FACILITY	
	4.6	TEST LOCATION	
	4.7	TEST INSTRUMENTS LIST	
5	SY	YSTEM TEST CONFIGURATION	8
	5.1	EUT Configuration:	8
	5.2	EUT Exercise	
	5.3	TEST PROCEDURE	
	5.3		
		3.2 Radiated Emissions	
	5.4	CONFIGURATION OF TESTED SYSTEM	
	5.5	DESCRIPTION OF TEST MODES	9
6	RF	F POWER OUTPUT MEASUREMENT	10
	6.1	STANDARD APPLICABLE	
	6.2	TEST SETUP	
	6.3	MEASUREMENT PROCEDURE	
	6.4	TEST RESULT	10
7	ER	RP, EIRP MEASUREMENT	14
	7.1	STANDARD APPLICABLE	
	7.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
	7.3	MEASUREMENT PROCEDURE	
	7.4	MEASUREMENT RESULT	
8	Mo	ODULATION CHARACTERISTIC	18
9	00	CCUPIED BANDWIDTH	19
	9.1	STANDARD APPLICABLE	19
	9.2	TEST SETUP	19
	9.3	TEST PROCEDURE	
	9.4	TEST RESULT	19
10) ОТ	UT OF BAND EMISSION AT ANTENNA TERMINALS	26
	10.1	STANDARD APPLICABLE	26
	10.2	TEST SETUP	26
	10.3	Measurement Procedure	26



	Report No: GISE10	UU9UU184U 1
10.4	MEASUREMENT RESULT	26
11 FI	ELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT	38
11.1	STANDARD APPLICABLE	38
11.2	EUT SETUP (BLOCK DIAGRAM OF CONFIGURATION)	
11.3	Measurement Procedure	39
11.4	Test Result	40
12 FF	REQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT	46
12.1	STANDARD APPLICABLE	46
12.2	TEST SETUP	46
12.3	TEST PROCEDURE	46
12.4	TEST RESULT	47
13 FF	REQUENCY STABILITY V.S. VOLTAGE MEASUREMENT	48
13.1	STANDARD APPLICABLE	48
13.2	TEST SETUP	48
13.3	TEST PROCEDURE	48
13.4	Test Result	49
14 A(C POWER LINE CONDUCTED EMISSION TEST	50
14.1	STANDARD APPLICABLE	50
14.2	TEST SETUP	50
14.3	TEST PROCEDURE	50
14.4	Measurement Result	50

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

Project No.: GTSE100900184RF

Page 3 of 54



3 Test Summary

Test Item	Section in CFR 47	Result
RF Exposure (SAR)	§1.1307, §2.1093	Passed* (Please refer to SAR Report)
RF Output Power	§2.1046; § 22.913 (a) § 24.232 (c)	PASS
Modulation Characteristics	§ 2.1047	PASS
99% & -26 dB Occupied Bandwidth	§ 2.1049 § 22.905 § 22.917 § 24.238	PASS
Spurious Emissions at Antenna Terminal	§ 2.1051, § 22.917 (a) § 24.238 (a)	PASS
Field Strength of Spurious Radiation	§ 2.1053 § 22.917 (a) § 24.238 (a)	PASS
Out of band emission, Band Edge	§ 22.917 (a) § 24.238 (a)	PASS
Frequency stability vs. temperature Frequency stability vs. voltage	§ 2.1055 § 22.355 § 24.235	PASS

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

Page 4 of 54



4 General Information

4.1 Client Information

Applicant:	Shenzhen Konka Telecommunications Technology Co., Ltd.
Address of Applicant:	9008, ShenNan Road Overseas Chinese Town
Manufacturer/Factory:	SHENZHEN KONKA TELECOMMUNICATION TECHNOLOGY CO., LTD.
Address of Manufacturer/Factory:	9008, ShenNan Road Overseas Chinese Town

4.2 General Description of E.U.T.

Product Name:	GSM Dual Band GPRS Digital Mobile Phone
Model No.:	LX11
Data cable(USB):	Length 1m
Earphone line:	Length 1.5m
Power supply:	Lithium Battery DC 3.7V 1000mAh
AC adapter:	Mode: 788
	Input AC 100-240V 50/60Hz, 0.1A
	Output DC 5.0V 1000mA

Cellular Phone Standards	GSM/GPRS 850	824MHz-849MHz	33dBm	
Frequency Range and Power	PCS1900	1850MHz-1910MHz	30dBm	
Type of Emission:	GXW300K			
IMEI:	352901043002032			
Software Version:	KABW512_ECA_Sp_En_Fr_1.01.819			
Hardware Version:	V1.2			

4.3 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: PJO9002 filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

4.4 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

Global United Technology Service Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

● FCC —Registration No.: 600491

Global United Technology Service Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 600491, July 20, 2010.

Industry Canada (IC)

The 3m Semi-anechoic chamber of Global United Technology Service Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-1.

4.6 Test Location

All tests were performed at:

Global United Technology Service Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen,

China

Tel: 0755-27798480 Fax: 0755-27798960

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



4.7 Test Instruments list

Radia	Radiated Emission:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS201	Mar. 30 2010	Mar. 30 2011
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS202	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Sep. 10 2010	Sep. 10 2011
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS204	Sep. 10 2010	Sep. 10 2011
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS205	June 30 2010	June 30 2011
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Coaxial Cable	GTS	N/A	GTS400	Apr. 01 2010	Apr. 01 2011
8	Coaxial Cable	GTS	N/A	GTS401	Apr. 01 2010	Apr. 01 2011
9	Coaxial cable	GTS	N/A	GTS402	Apr. 01 2010	Apr. 01 2011
10	Coaxial Cable	GTS	N/A	GTS407	Apr. 01 2010	Apr. 01 2011
11	Coaxial Cable	GTS	N/A	GTS408	Apr. 01 2010	Apr. 01 2011
12	Amplifier(10KHz- 5GHz)	Sonnoma Instrument	305-1052	GTS210	Apr. 01 2010	Apr. 01 2011
13	Amplifier(2GHz- 20GHz)	HP	8349B	GTS231	Apr. 01 2010	Apr. 01 2011
14	Universal radio communication tester	Rohde & Schwarz	CMU200	GTS235	May 11 2010	May 11 2011
15	Signal Generator	Rohde & Schwarz	SML03	GTS236	May 11 2010	May 11 2011
16	Temp. Humidity/ Barometer	Oregon Scientific	BA-888	GTS248	May 11 2010	May 11 2011
17	D.C. Power Supply	Instek	PS-3030	GTS232	NA	NA
18	Splitter	Agilent	11636B	GTS237	May 11 2010	May 11 2011

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

Page 7 of 54



5 SYSTEM TEST CONFIGURATION

5.1 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.

5.2 EUT Exercise

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

5.3 Test Procedure

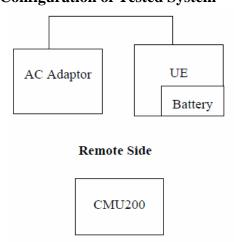
5.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8m 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 0.15MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

5.3.2 Radiated Emissions

The EUT is placed on a turn table which is 1.0m 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.

5.4 Configuration of Tested System





5.5 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/PCS with power adaptors, earphone and Data cable. The worst-case H mode for GSM 850 band, PCS1900 band.



6 RF POWER OUTPUT MEASUREMENT

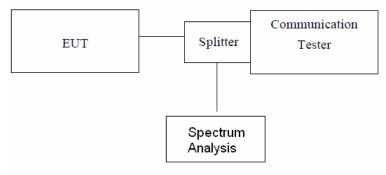
6.1 Standard Applicable

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.

6.2 Test setup



Note: Measurement setup for testing on Antenna connector

6.3 Measurement Procedure

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

6.4 Test Result

EUT Mode	Frequency (MHz)	СН	Reading (dBm)	Path Loss (dB)	Peak Power(dBm)
	824.29	128	31.69	0.50	32.19
GSM 850	836.64	190	31.83	0.50	32.33
	848.85	251	31.48	0.50	31.98

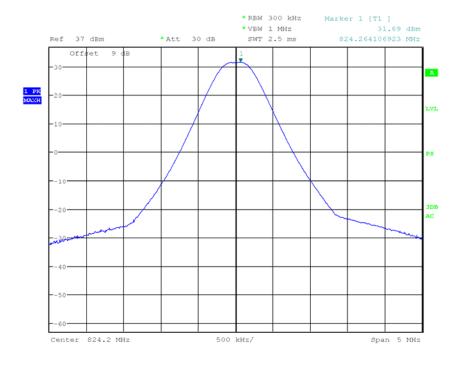
EUT Mode	Frequency (MHz)	СН	Reading (dBm)	Path Loss (dB)	Peak Power(dBm)
	1850.30	512	28.16	0.50	28.66
PCS 1900	1880.00	661	28.77	0.50	29.27
	1909.75	810	28.68	0.50	29.18

Shenzhen, China 518102

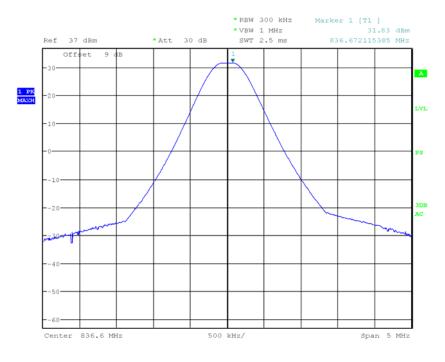


Please refer to the following plots.

Test mode:	GSM850	Test channel:	128	



Test mode:	GSM850	Test channel:	190	

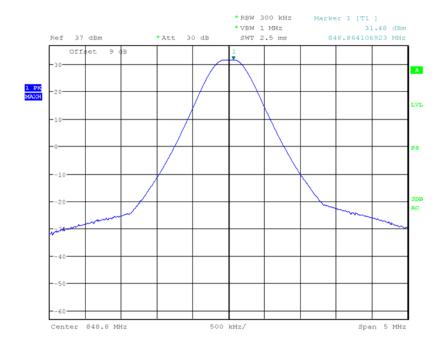


Global United Technology Service Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

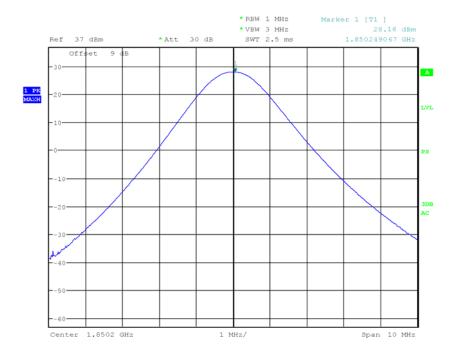
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



Test mode:	GSM850	Test channel:	251



Test mode: PCS1900 Test channel: 512

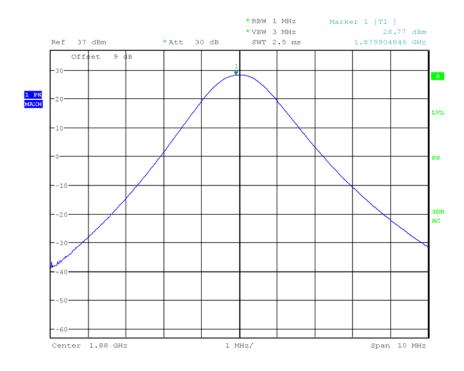


Global United Technology Service Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

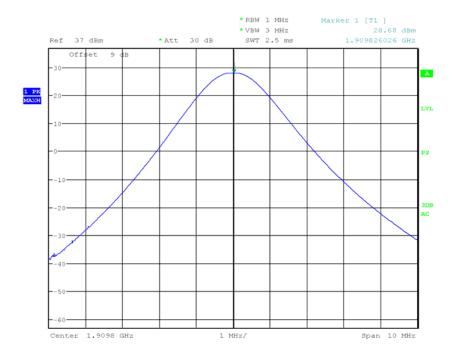
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



Test mode:	PCS1900	Test channel:	661



Test mode: PCS1900 Test channel: 810



Global United Technology Service Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



7 ERP, EIRP MEASUREMENT

7.1 Standard Applicable

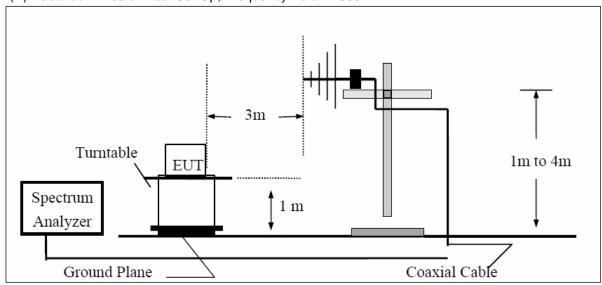
According to FCC §2.1046

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

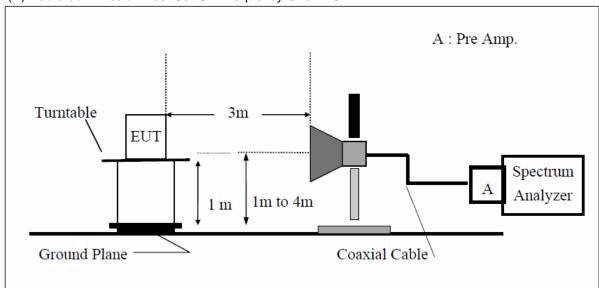
FCC 24.232(b) Mobile station are limited to 2W EIRP.

7.2 Test SET-UP (Block Diagram of Configuration)

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



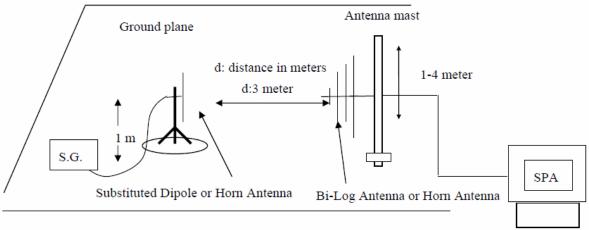
(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



(C) Substituted Method Test Set-UP



7.3 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)



7.4 Measurement Result

EUT	Frequency	СН	EUT	Antenna	SPA Reading	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
mode	(MHz)	СН	Pol.	Pol.	(dBuV)	(dBm)	(dBd)	(dB)	(dBm)	(dBm)
			**	V	131.18	43.85	-7.87	3.62	32.36	38.45
			Н	Н	125.92	37.70	-7.87	3.62	26.21	38.45
	924.20	120	E1	V	117.99	32.64	-7.87	3.62	21.15	38.45
	824.20	128	E1	Н	121.38	36.14	-7.87	3.62	24.65	38.45
			F2	V	120.10	34.73	-7.87	3.62	23.24	38.45
			E2	Н	126.64	39.38	-7.87	3.62	27.89	38.45
		190	H 00 E1	V	131.14	43.43	-7.88	3.65	31.90	38.45
				Н	126.64	38.32	-7.88	3.65	26.79	38.45
CCM 050	026.60			V	121.40	34.03	-7.88	3.65	22.50	38.45
GSM 850	836.60			Н	126.51	38.13	-7.88	3.65	26.60	38.45
			E2	V	118.10	31.67	-7.88	3.65	20.14	38.45
				Н	126.65	37.21	-7.88	3.65	25.68	38.45
			11	V	129.77	42.75	-7.88	3.68	31.19	38.45
			Н	Н	126.34	38.20	-7.88	3.68	26.64	38.45
	0.40.00	251	T7.1	V	120.50	35.38	-7.88	3.68	23.82	38.45
	848.80	0 251	E1	Н	125.49	39.25	-7.88	3.68	27.69	38.45
			E2	V	121.39	35.17	-7.88	3.68	23.61	38.45
			E2	Н	127.69	40.35	-7.88	3.68	25.18	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

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



EUT	Frequency	СН	EUT	Antenna	SPA Reading	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
mode	(MHz)	Сп	Pol.	Pol.	(dBuV)	(dBm)	(dBd)	(dB)	(dBm)	(dBm)
			**	V	135.91	26.72	9.90	5.56	31.06	33.00
			Н	Н	129.04	22.94	9.90	5.56	27.28	33.00
	1050.30	510	F1	V	126.47	22.17	9.90	5.56	26.51	33.00
	1850.20	512	E1	Н	130.51	26.33	9.90	5.56	30.67	33.00
			F2	V	131.70	22.96	9.90	5.56	27.30	33.00
			E2	Н	134.19	25.45	9.90	5.84	29.51	33.00
		661	H E1	V	134.98	27.35	9.99	5.61	31.73	33.00
				Н	129.66	24.52	9.99	5.61	28.90	33.00
P.CG 1000	1000.00			V	127.88	23.52	9.99	5.61	27.90	33.00
PCS 1900	1880.00			Н	129.77	24.49	9.99	5.61	28.87	33.00
			E2	V	128.20	23.84	9.99	5.61	28.22	33.00
				Н	130.42	26.76	9.99	5.61	31.14	33.00
			7.7	V	135.22	27.46	10.08	5.66	31.88	33.00
			Н	Н	131.71	23.60	10.08	5.66	28.02	33.00
	1000.00	010	F1	V	126.90	21.57	10.08	5.66	25.99	33.00
	1909.80		E1	Н	130.06	24.95	10.08	5.66	29.37	33.00
			E2	V	129.84	22.51	10.08	5.66	26.93	33.00
			E2	Н	133.65	27.54	10.08	5.66	31.96	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

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



8 MODULATION CHARACTERISTIC

According to FCC \S 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

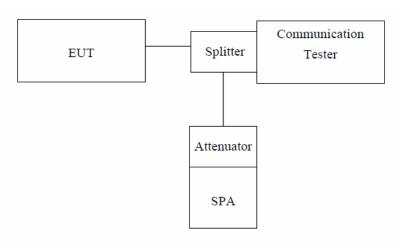


9 OCCUPIED BANDWIDTH

9.1 Standard Applicable

CFR 47 §2.1049

9.2 Test setup



Note: Measurement setup for testing on Antenna connector

9.3 Test Procedure

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW (10/47KHz) was set to about 1% of emission BW, VBW= 3 times RBW(30/150KHz), -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.

9.4 Test Result

EUT Mode	Frequency(MHz)	СН	26dB bandwidth	99% Bandwidth(MHz)
	824.20	128	307.69	248.40
GSM 850	836.60	190	310.90	250.00
	848.80	251	322.12	248.40

EUT Mode	Frequency(MHz)	СН	26dB bandwidth	99% Bandwidth(MHz)
	1850.20	512	323.72	246.80
PCS 1900	1880.00	661	317.31	246.80
	1909.80	810	315.71	245.20

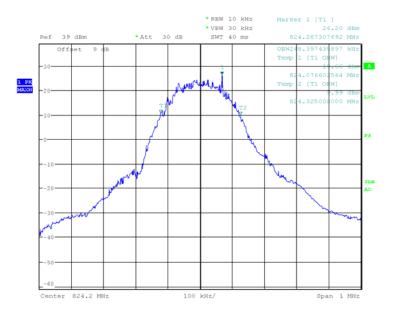
Please refer to the following plots.

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



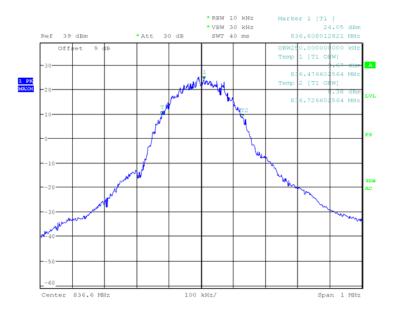
99% bandwidth:

Test mode:	GSM850	Test channel:	128



Date: 11.SEP.2010 11:48:42

Test mode:	GSM850	Test channel:	190	



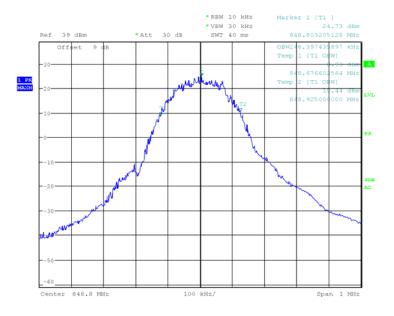
Date: 11.SEP.2010 11:54:24

Global United Technology Service Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

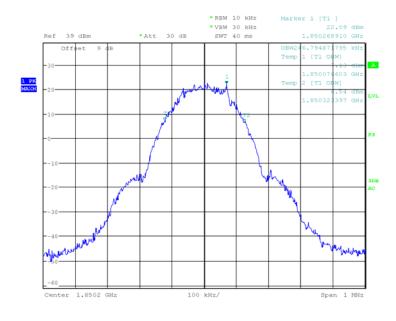


Test mode:	GSM850	Test channel:	251



Date: 11.SEP.2010 11:58:12

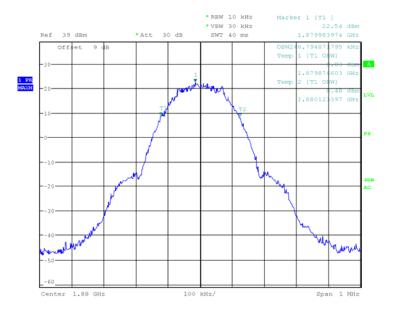
T	D004000	F 1 . 1 1	540
l est mode:	PCS1900	l est channel:	512



Date: 11.SEP.2010 11:19:47

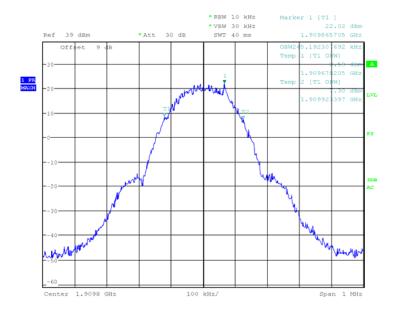


Test mode:	PCS1900	Test channel:	661



Date: 11.SEP.2010 11:34:30

_			
Test mode:	PCS1900	Test channel:	810

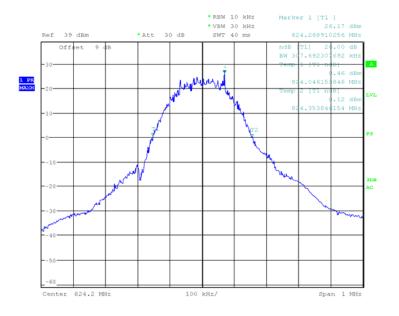


Date: 11.SEP.2010 11:41:29



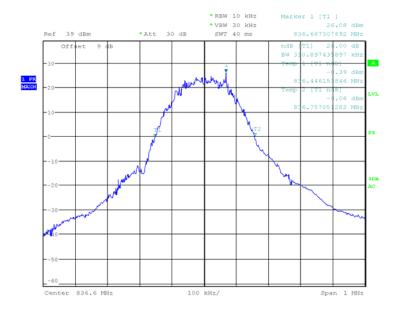
26dB bandwidth:

Test mode:	GSM850	Test channel:	128



Date: 11.SEP.2010 11:48:21

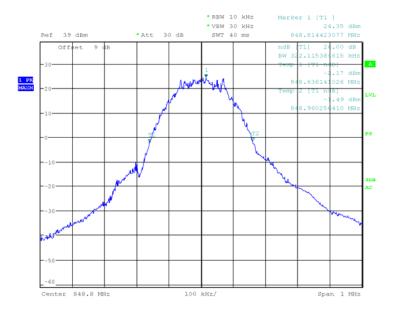
	Test mode:	GSM850	Test channel:	190
--	------------	--------	---------------	-----



Date: 11.SEP.2010 11:54:07

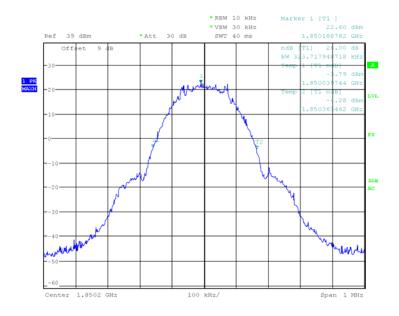


Test mode:	GSM850	Test channel:	251



Date: 11.SEP.2010 11:57:52

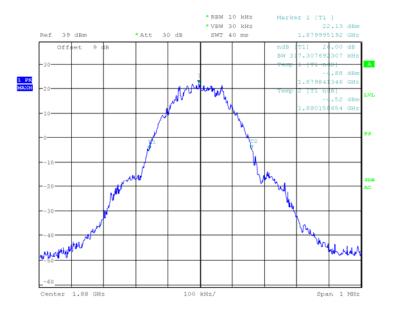
Test mode:	PCS1900	Test channel:	512	



Date: 11.SEP.2010 11:19:22

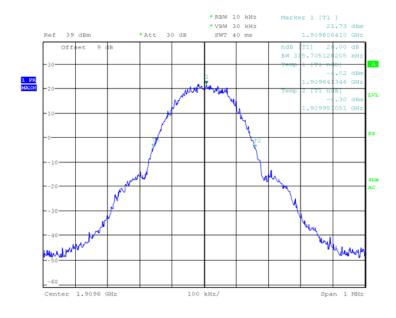


Test mode:	PCS1900	Test channel:	661
i est illoue.	1 001300	i est channel.	001



Date: 11.SEP.2010 11:25:02

Test mode: PCS1900 Test channel: 810



Date: 11.SEP.2010 11:41:12



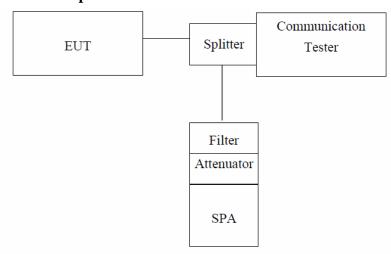
10 OUT OF BAND EMISSION AT ANTENNA TERMINALS

10.1 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 inwatts) dBc below the mean power output outside a license's frequency block (-13dBm)

10.2 Test setup



Note: Measurement setup for testing on Antenna connector

10.3 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.

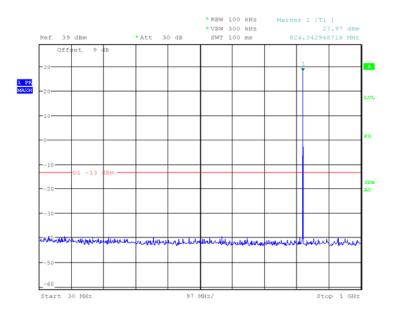
10.4 Measurement Result

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

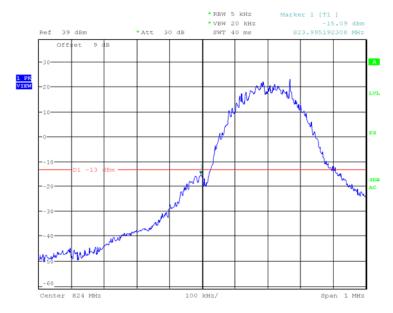


Test Result

Test mode:	GSM850	Test channel:	128
rest mode.	G31V1030	i est charillet.	120

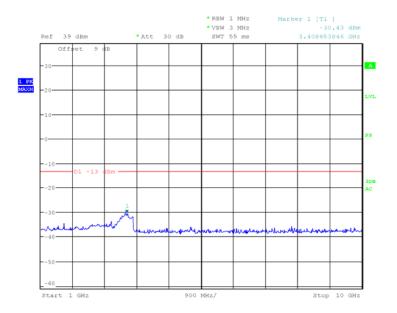


Date: 11.SEP.2010 11:50:58



Date: 11.SEP.2010 11:49:34

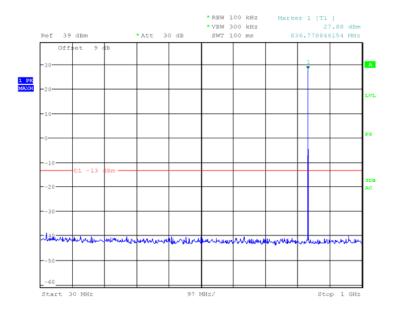




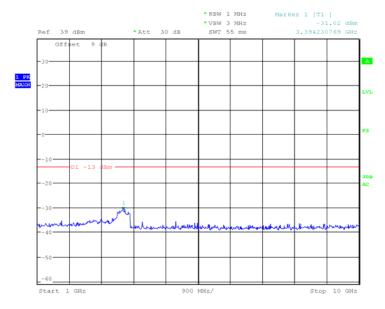
Date: 11.SEP.2010 11:51:48



Tes	t mode:	GSM850	Test channel:	190
		• • • • • • • • • • • • • • • • • • • •		



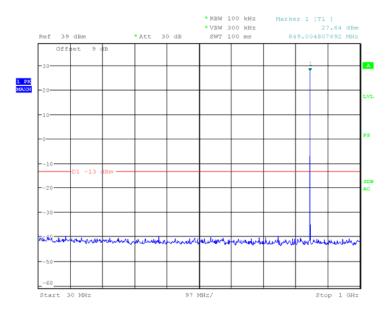
Date: 11.SEP.2010 11:55:25



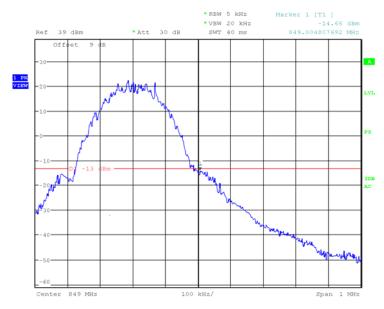
Date: 11.SEP.2010 11:55:48



Test mode:	GSM850	Test channel:	251
i cot illouc.	GOI 11000	rest charmer.	201

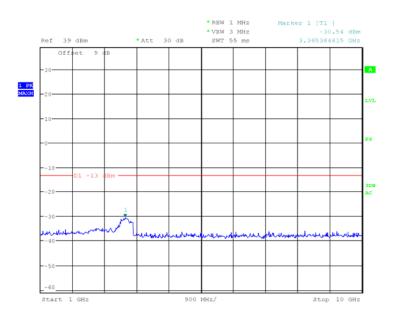


Date: 11.SEP.2010 11:59:56



Date: 11.SEP.2010 11:59:27

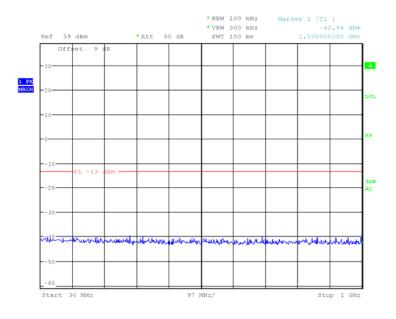




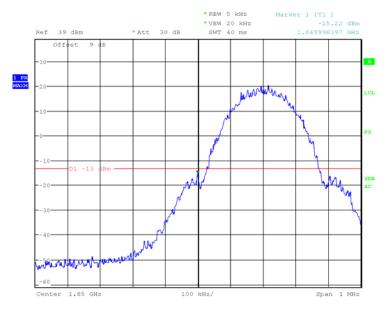
Date: 11.SEP.2010 12:00:23



Test mode:	PCS1900	Test channel:	512
			• -

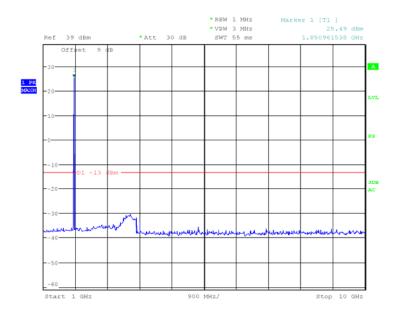


Date: 11.SEP.2010 11:21:56

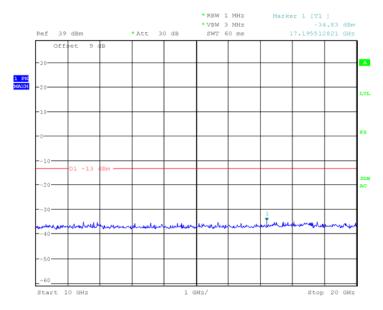


Date: 11.SEP.2010 11:20:59





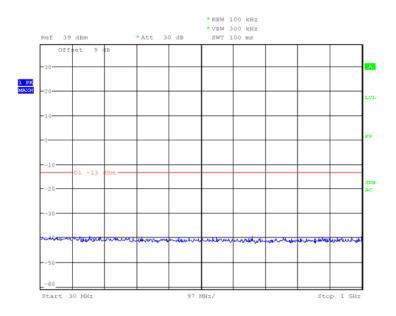
Date: 11.SEP.2010 11:23:27



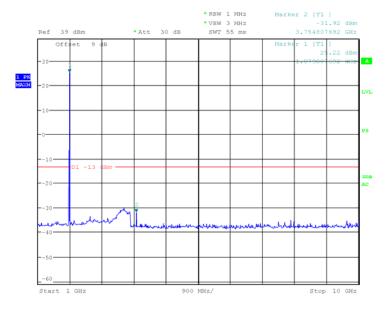
Date: 11.SEP.2010 11:23:07



Test mode:	PCS1900	Test channel:	661
restinoue.	FC31900	Test Chariner.	001

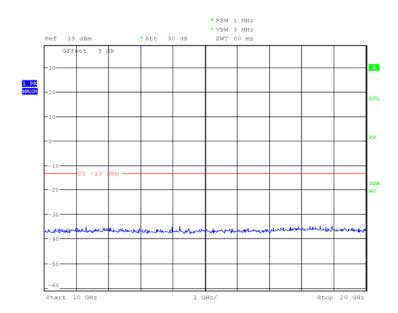


Date: 11.SEP.2010 11:37:01



Date: 11.SEP.2010 11:38:40

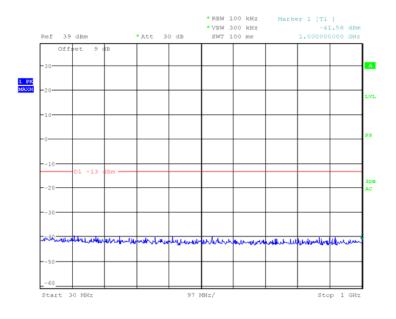




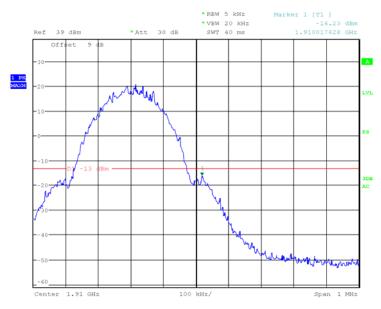
Date: 11.SEP.2010 11:39:14



		Test mode:	PCS1900	Test channel:	810
--	--	------------	---------	---------------	-----

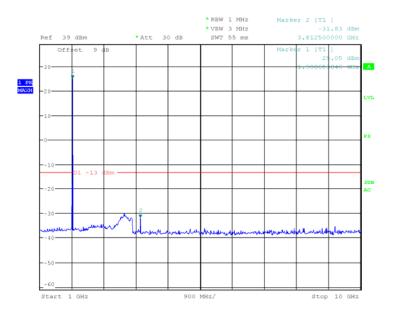


Date: 11.SEP.2010 11:43:21

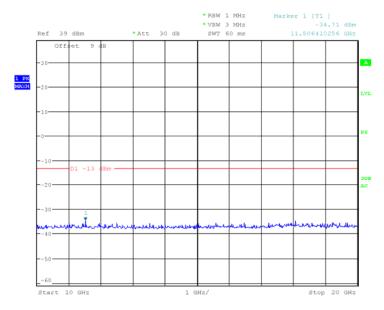


Date: 11.SEP.2010 11:42:45





Date: 11.SEP.2010 11:44:06



Date: 11.SEP.2010 11:44:26



11 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

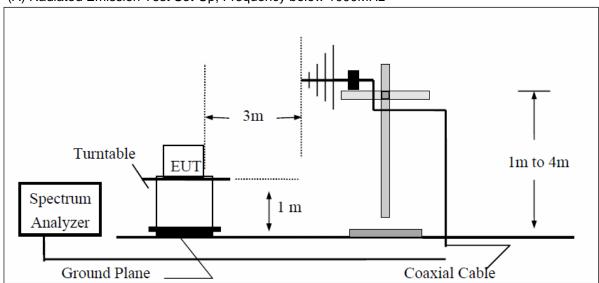
11.1 Standard Applicable

According to FCC §2.1053,

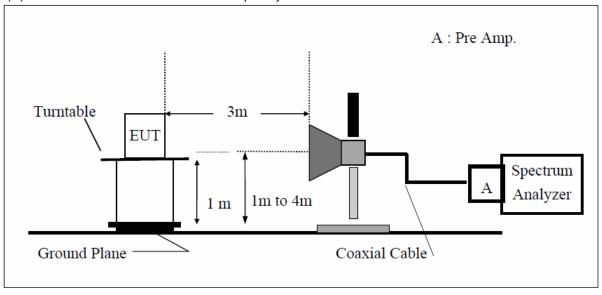
FCC §22.917(a),§24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean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

11.2 EUT Setup (Block Diagram of Configuration)

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



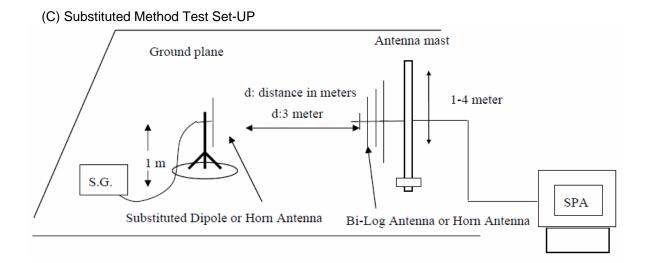
(B) Radiated Emission Test Set-UP Frequency over 1 GHz



Global United Technology Service Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960





11.3 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)



11.4 Test Result

Test mode:	GSM850	Test channel:	128	EUT position	Н

Freq(MHz)	SPA	Ant.	S.G output	Antenna Gain	Cable Loss	ERP/EIRP	Limit	Margin
	reading	Pol.	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
58.98	55.28	V	-48.42	-7.34	0.95	-56.71	-13.00	-43.71
352.65	55.03	V	-48.73	-7.76	1.37	-57.86	-13.00	-44.86
824.00	90.23	V	-6.07	-7.87	3.62	-17.56	-13.00	-4.56
1648.40	68.47	V	-34.70	9.29	5.23	-30.64	-13.00	-17.64
2472.60	50.47	V	-48.14	10.08	6.53	-44.59	-13.00	-31.59
3296.80		V					-13.00	
4121.00		V					-13.00	
4945.20		V					-13.00	
5769.40		V					-13.00	

Freq(MHz)	SPA	Ant.	S.G output	Antenna Gain	Cable Loss	ERP/EIRP	Limit	Margin
	reading	Pol.	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
159.20	44.90	Н	-53.89	-7.46	0.99	-62.34	-13.00	-49.34
418.25	45.25	Н	-53.19	-7.82	2.78	-63.79	-13.00	-50.79
824.00	81.39	Н	-14.00	-7.87	3.62	-25.49	-13.00	-12.49
1648.40	58.45	Н	-47.42	9.29	5.23	-43.36	-13.00	-30.36
2472.60	55.72	Н	-51.91	10.08	6.53	-48.36	-13.00	-35.36
3296.80		Н					-13.00	
4121.00		Н					-13.00	
4945.20		Н					-13.00	
5769.40		Н					-13.00	

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:

ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

Page 40 of 54



Test mode:

3346.40

4183.00

5019.60

5856.20

6692.80

GSM850

٧

٧

٧

٧

٧

58.39

-49.28

Report No: GTSE10090018401

EUT position

-44.79

Н

-13.00

-13.00

-13.00

-13.00

-13.00

-31.79

Freq(MHz)	SPA	Ant.	S.G output	Antenna Gain	Cable Loss	ERP/EIRP	Limit	Margin
	reading	Pol.	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
165.73	53.46	V	-48.03	-7.67	0.95	-56.65	-13.00	-43.65
358.39	50.32	V	-46.27	-7.83	1.37	-55.47	-13.00	-42.47
1673.20	60.88	V	-46.76	9.36	5.27	-42.67	-13.00	-29.67
2509.80	57.11	V	-49.46	10.09	6.58	-45.95	-13.00	-32.95

12.28

7.79

Test channel:

190

Freq(MHz)	SPA	Ant.	S.G output	Antenna Gain	Cable Loss	ERP/EIRP	Limit	Margin
	reading	Pol.	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
214.47	52.92	Н	-48.32	-7.77	1.39	-57.48	-13.00	-44.48
439.61	56.62	Н	-43.79	-7.84	2.79	-54.42	-13.00	-41.42
1673.20	55.76	Н	-50.00	9.36	5.27	-45.91	-13.00	-32.91
2509.80	53.47	Н	-52.18	10.09	6.58	-48.67	-13.00	-35.67
3346.40	50.67	Н	-54.39	12.28	7.79	-49.90	-13.00	-36.90
4183.00		Н					-13.00	
5019.60		Н					-13.00	
5856.20		Н					-13.00	
6692.80		Н					-13.00	

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:

ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) - Cable loss (dB)

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



Test mode:	GSM850	Test channel:	251	EUT position	Н
•					

Freq(MHz)	SPA	Ant.	S.G output	Antenna Gain	Cable Loss	ERP/EIRP	Limit	Margin
	reading	Pol.	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
158.72	53.73	V	-50.18	-7.77	1.38	-59.33	-13.00	-46.33
507.73	46.37	V	-49.65	-7.88	2.88	-60.41	-13.00	-47.41
849.00	88.76	V	-7.16	-7.88	3.68	-18.72	-13.00	-5.72
1697.60	59.44	V	-50.14	9.44	5.31	-46.01	-13.00	-33.01
2546.40	61.54	V	-47.51	10.20	6.63	-43.94	-13.00	-30.94
3395.20		V					-13.00	
4244.00		V					-13.00	
5092.80		V					-13.00	
5941.60		V					-13.00	

Freq(MHz)	SPA	Ant.	S.G output	Antenna Gain	Cable Loss	ERP/EIRP	Limit	Margin
	reading	Pol.	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
248.51	51.24	Η	-53.07	-7.68	0.96	-61.71	-13.00	-48.71
692.65	51.07	Н	-52.17	-7.83	1.37	-61.37	-13.00	-48.37
824.00	81.69	Η	-12.78	-7.88	3.68	-24.34	-13.00	-11.34
1648.40	58.24	Н	-51.75	9.44	5.31	-47.62	-13.00	-34.62
2472.60	56.88	Н	-49.38	10.20	6.63	-45.81	-13.00	-32.81
3296.80		Н					-13.00	
4121.00		Н					-13.00	
4945.20		Н					-13.00	
5769.40		Η					-13.00	

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:

ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) - Cable loss (dB)

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



Test mode: PCS1900	Test channel:	512	EUT position	Н
--------------------	---------------	-----	--------------	---

Freq(MHz)	SPA	Ant.	S.G output	Antenna Gain	Cable Loss	ERP/EIRP	Limit	Margin
	reading	Pol.	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
637.56	52.22	V	-49.14	-7.83	1.37	-58.34	-13.00	-45.34
1637.57	60.73	V	-49.49	8.44	4.31	-45.36	-13.00	-32.36
1850.00	78.72	V	-26.06	9.90	5.56	-21.72	-13.00	-8.72
3700.40	64.44	V	-37.57	12.61	8.31	-33.27	-13.00	-20.27
5550.60	50.12	V	-48.63	13.23	10.33	-45.73	-13.00	-32.73
7400.80		V					-13.00	
9251.00		V					-13.00	
11101.20		V					-13.00	
12951.40		V					-13.00	

Freq(MHz)	SPA	Ant.	S.G output	Antenna Gain	Cable Loss	ERP/EIRP	Limit	Margin
	reading	Pol.	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
364.37	51.57	Η	-47.31	-7.38	3.18	-57.87	-13.00	-44.87
1798.47	58.69	Н	-51.30	8.17	4.76	-47.89	-13.00	-34.89
1850.00	74.57	Η	-30.45	9.90	5.56	-26.11	-13.00	-13.11
3700.40	61.48	Н	-40.69	12.61	8.31	-36.39	-13.00	-23.39
5550.60	49.52	Н	-49.39	13.23	10.33	-46.49	-13.00	-33.49
7400.80		Н					-13.00	
9251.00		Н					-13.00	
11101.20		Н					-13.00	
12951.40		Η					-13.00	

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:

ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) - Cable loss (dB)

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



|--|

Freq(MHz)	SPA	Ant.	S.G output	Antenna Gain	Cable Loss	ERP/EIRP	Limit	Margin
	reading	Pol.	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
547.68	50.28	V	-48.17	-7.83	1.37	-57.37	-13.00	-44.37
1607.43	56.63	V	-51.86	8.19	4.82	-48.49	-13.00	-35.49
3760.00	66.28	V	-36.23	12.60	8.39	-32.02	-13.00	-19.02
5640.00	50.73	V	-48.59	13.36	10.41	-45.64	-13.00	-32.64
7520.00	50.47	V	-48.45	11.45	12.19	-49.19	-13.00	-36.19
9400.00		V					-13.00	
11280.00		V					-13.00	
13160.00		V					-13.00	
15040.00		V					-13.00	

Freq(MHz)	SPA	Ant.	S.G output	Antenna Gain	Cable Loss	ERP/EIRP	Limit	Margin
	reading	Pol.	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
340.34	51.56	Ι	-50.32	-7.38	3.18	-60.88	-13.00	-47.88
1201.45	54.28	Н	-51.38	7.89	4.58	-48.07	-13.00	-35.07
3760.00	62.14	Н	-38.95	12.60	8.39	-34.74	-13.00	-21.74
5640.00	51.27	Н	-47.29	13.36	10.41	-44.34	-13.00	-31.34
7520.00	52.36	Н	-46.87	11.45	12.19	-47.61	-13.00	-34.61
9400.00		Н					-13.00	
11280.00		Н					-13.00	
13160.00		Н					-13.00	
15040.00		Н					-13.00	

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:

ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) - Cable loss (dB)

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



Test mode: PCS1900 Test channel: 810 EUT position H	
---	--

Freq(MHz)	SPA	Ant.	S.G output	Antenna Gain	Cable Loss	ERP/EIRP	Limit	Margin
	reading	Pol.	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
324.33	53.78	V	-48.24	-7.83	1.37	-57.44	-13.00	-44.44
1528.27	56.87	V	-48.06	7.56	4.56	-45.06	-13.00	-32.06
1910.00	78.74	V	-27.49	10.08	5.66	-23.07	-13.00	-10.07
3819.60	61.95	V	-39.36	12.60	8.69	-35.45	-13.00	-22.45
5729.40	53.21	V	-49.69	13.86	10.73	-46.56	-13.00	-33.56
7639.20		V					-13.00	
9549.00		V					-13.00	
11458.80		V					-13.00	
13368.60		V					-13.00	

Freq(MHz)	SPA	Ant.	S.G output	Antenna Gain	Cable Loss	ERP/EIRP	Limit	Margin
	reading	Pol.	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
467.74	46.26	Η	-48.96	-7.38	3.18	-59.52	-13.00	-46.52
993.31	49.27	Н	-44.79	-7.84	3.68	-56.31	-13.00	-43.31
1910.00	76.38	Н	-28.73	10.08	5.66	-24.31	-13.00	-11.31
3819.60	57.58	Н	-42.29	12.60	8.69	-38.38	-13.00	-25.38
5729.40	54.38	Н	-48.38	13.86	10.73	-45.25	-13.00	-32.25
7639.20		Н					-13.00	
9549.00		Н					-13.00	
11458.80		Н					-13.00	
13368.60		Η					-13.00	

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:

ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) - Cable loss (dB)

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

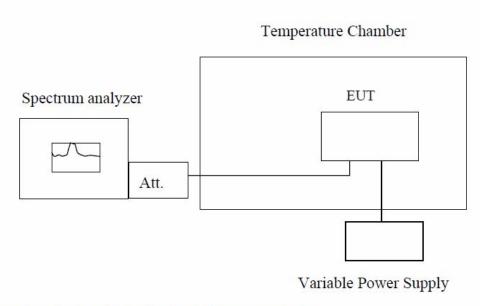


12 FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

12.1 Standard Applicable

According to FCC §2.1055(a)(1)(b). Frequency Tolerance: 2.5 ppm

12.2 Test setup



Note: Measurement setup for testing on Antenna connector

12.3 Test 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.

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



12.4 Test Result

Referen	Reference Frequency: GSM850 Middle channel=190 channel=836.6MHz									
Temperature (°C)	Power Supplied (Vdc)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)						
-20	3.70	31	0.0371	2.5						
-10	3.70	28	0.0335	2.5						
0	3.70	25	0.0299	2.5						
20	3.70	23	0.0275	2.5						
40	3.70	25	0.0299	2.5						
55	3.70	27	0.0323	2.5						
25	3.70	23	0.0275	2.5						

Referen	Reference Frequency: PCS1900 Middle channel=661 channel=1880MHz									
Temperature (°C)	Power Supplied (Vdc)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)						
-20	3.70	42	0.0223	2.5						
-10	3.70	38	0.0202	2.5						
0	3.70	36	0.0191	2.5						
20	3.70	33	0.0176	2.5						
40	3.70	36	0.0191	2.5						
55	3.70	40	0.0213	2.5						
25	3.70	33	0.0176	2.5						

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

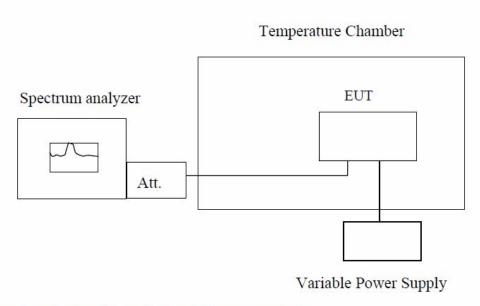


13 FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

13.1 Standard Applicable

According to FCC §2.1055(d)(1)(2). Frequency Tolerance: 2.5 ppm

13.2 Test setup



Note: Measurement setup for testing on Antenna connector

13.3 Test 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.

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



13.4 Test Result

Reference Frequency: GSM850 Middle channel=190 channel=836.6MHz								
Temperature (°C) Power Supplied (Vdc) Frequency Error Error (ppm) Limit (ppm)								
25	4.25	21	0.0251	2.5				
25	3.70	23	0.0275	2.5				
25	3.40	20	0.0239	2.5				

Reference Frequency: PCS1900 Middle channel=661 channel=1880MHz										
Temperature (°C) Power Supplied (Vdc) Frequency Error Error (ppm) Limit (ppm)										
25	4.25	34	0.0181	2.5						
25	3.70	33	0.0176	2.5						
25	3.40	41	0.0218	2.5						

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



14 AC POWER LINE CONDUCTED EMISSION TEST

14.1 Standard Applicable

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

Frequency range (MHz)	Lim	nits dB(uV)
Trequency range (IVITIZ)	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

- 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.

14.2 Test 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.

14.3 Test 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.

14.4 Measurement Result

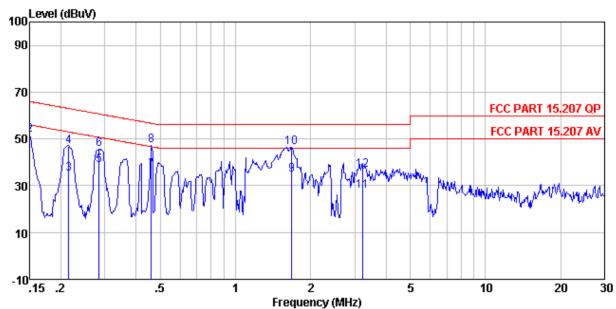
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



Test mode: GSM850

Line:

Data: 10 File: E:\GTS project\B\Bird\conducted.EM6 (14)



Condition : FCC PART 15.207 QP LISN LINE

Job No. : 184RF

EUT : GSM Dual Band GPRS Digital Mobile Phone

Test Mode : Charging and GSM850

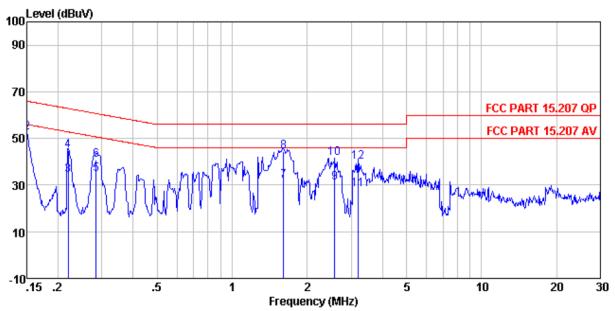
Test Engineer: Franks

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	d₿	dBuV	dBuV	——dB	
1 2 3 4 5 6 7 8	0. 15 0. 15 0. 22 0. 22 0. 28 0. 28 0. 46 0. 46	32.10 48.02 31.20 43.10 35.20 41.94 33.30 43.58	3. 69 3. 65 3. 65 3. 62 3. 62 3. 56 3. 56	0. 01 0. 01 0. 01 0. 01 0. 01 0. 01 0. 01 0. 01	35. 80 51. 72 34. 86 46. 76 38. 83 45. 57 36. 87 47. 15	66.00 53.01 63.01 50.68 60.68 46.67 56.67	-14. 28 -18. 15 -16. 25 -11. 85 -15. 11 -9. 80 -9. 52	Average QP Average QP Average QP
9 10 11 12	1.68 1.68 3.22 3.22	31.10 43.12 24.10 33.10	3. 42 3. 42 3. 35 3. 35	0. 07 0. 07 0. 22 0. 22	34.59 46.61 27.67 36.67	56.00 46.00	-9.39	Average



Neutral:

Data: 9 File: E:\GTS project\B\Bird\conducted.EM6 (14)



Condition : FCC PART 15.207 QP LISN NEUTRAL

Job No. : 184RF EUT : GSM D

EUT : GSM Dual Band GPRS Digital Mobile Phone

Test Mode : Charging and GSM850

Test Engineer: Franks

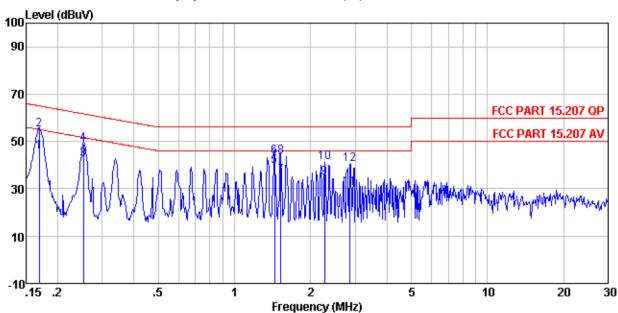
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	₫B	dB	dBuV	dBuV	dB	
1 2 3	0.15 0.15	45. 20 48. 82	3. 69 3. 69	0.01 0.01	48. 90 52. 52		-13.48	
3 4 5 6	0. 22 0. 22 0. 28	30. 40 41. 30 31. 20	3. 65 3. 65 3. 62	0.01 0.01 0.01	34.06 44.96 34.83	62.83	-17.87	Average QP Average
5 6 7	0. 28 0. 28 1. 61	37. 20 28. 41	3. 62 3. 42	0.01 0.01 0.06	40.83 31.89	60.68	-19.85	_
8 9	1. 61 2. 58	41.11	3. 42 3. 37	0.06 0.17	44.59 31.04	56.00	-11.41	_
10	2.58	38.20	3.37	0.17	41.74	56.00	-14.26	QP
11 12	3.19 3.19	24.60 36.20	3.35 3.35	0. 22 0. 22	28. 17 39. 77		-17.83 -16.23	Average QP



Test mode: PCS1900

Line:

Data: 11 File: E:\GTS project\B\Bird\conducted.EM6 (14)



Condition : FCC PART 15.207 QP LISN LINE

Job No. : 184RF

EUT : GSM Dual Band GPRS Digital Mobile Phone

Test Mode : Charging and PCS1900

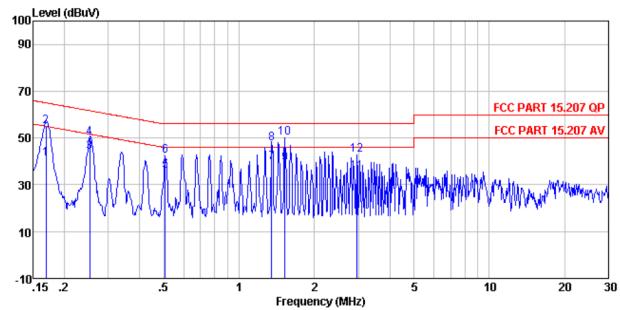
Test Engineer: Franks

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBu₹	dBuV	dB	
1 2 3 4 5 6 7 8 9	0.17 0.17 0.25 0.25 1.44 1.53 1.53 2.27	42.00 51.20 38.90 45.20 36.20 40.12 32.10 40.20 31.19	3. 67 3. 63 3. 63 3. 44 3. 44 3. 43 3. 43 3. 39	0. 01 0. 01 0. 01 0. 01 0. 04 0. 04 0. 06 0. 06 0. 14	45. 68 54. 88 42. 54 48. 84 39. 68 43. 60 35. 59 43. 69 34. 72	51.64 61.64 46.00 56.00 46.00 56.00 46.00	-10. 11 -9. 10 -12. 80 -6. 32 -12. 40 -10. 41 -12. 31 -11. 28	Average QP Average QP Average QP Average
10 11 12	2. 27 2. 85 2. 85	37.55 26.70 36.98	3.39 3.36 3.36	0.14 0.19 0.19	41.08 30.25 40.53	46.00	-14. 92 -15. 75 -15. 47	Average



Neutral:

Data: 12 File: E:\GTS project\B\Bird\conducted.EM6 (14)



Condition : FCC PART 15.207 QP LISN NEUTRAL

Job No. : 184RF

EUT : GSM Dual Band GPRS Digital Mobile Phone

Test Mode : Charging and PCS1900

Test Engineer: Franks

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1 2	0.17 0.17	37.60 51.20	3.67 3.67	0.01 0.01	41.28 54.88		-13.71 -10.11	Average QP
2 3 4	0.25 0.25	40.20 46.50	3. 63 3. 63	0.01 0.01	43.84 50.14	51.64		Average
4 5 6	0.51 0.51	32.50 38.80	3.55 3.55	0.01 0.01	36.06 42.36		-13.64	•
7 8	1.35 1.35	36. 21 44. 21	3. 44 3. 44	0.02 0.02	39.67 47.67	46.00 56.00	-8.33	
9 10	1.53 1.53	35.60 46.40	3. 43 3. 43	0.06	39.09 49.89	46.00 56.00	-6.11	
11 12	2. 95 2. 95	32. 09 39. 27	3.36 3.36	0.20 0.20	35.65 42.83		-10.35 -13.17	Average QP

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960 Page 54 of 54