



FCC PART 22 H/24 E MEASUREMENT AND TEST REPORT

For

FIYING TECHNOLOGY DEVELOPMENT CO., LTD

Rm.2312, 23/F., Metropolis tower, 10Metroplos Drive,

Hung, Hom, Kowloon, Hong Kong

FCC ID: XJS20070901

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. This report **must not** be used by the customer to claim product certification, approval, or endorsement by NVLAP*, NIST, or any agency of the Federal Government. * This report may contain data that are not covered by the NVLAP accreditation and are marked with an asterisk "*" (Rev.2)

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The FIYING TECHNOLOGY DEVELOPMENT CO., LTD's product, model number: F8, F009, F999, D9A(FCC ID: XJS20070901) or the "EUT" as referred to in this report is a GSM&GPRS Dual Standby Mobile Phone, which measures approximately: 10.3 cm L x 5.1 cm W x 1.8 cm H, rated input voltage: DC 3.7V battery.

Frequency Range:

Cellular Band: 824-849 MHz (TX), 869-894 MHz (RX) PCS Band: 1850-1910 MHz (TX), 1930-1990 MHz (RX)

Bluetooth: 2400-2483.5 MHz (TX/RX) WiFi: 2412-2462 MHz (TX/RX)

Modulation Mode: GMSK (GSM850/PCS1900), GFSK (Bluetooth), Wi-Fi (DSSS/OFDM)

Transmitter Output Power:

Cellular Band: 33±2 dBm PCS Band: 30±2 dBm Bluetooth: -10~4 dBm Wi-Fi: 10±2 dBm

All measurement and test data in this report was gathered from production sample serial number: 0906082(Assigned by BACL, Shenzhen). The EUT was received on 2009-06-21.

*Note: The series products, model F8, F009, F999, D9A, we select F8 to test, the difference of these models is in model name, there is no electrical change has been made to the equipment, which was explained in the attached Declaration Letter.

EUT Photo



Please see additional photos in Exhibit B&C

Objective

This type approval report is prepared on behalf of *FIYING TECHNOLOGY DEVELOPMENT CO.*, *LTD* in accordance with Part 2, Subpart J, Part 22 Subpart H, and Part 24 Subpart E of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC rules for output power, modulation characteristic, occupied bandwidth, and spurious emission at antenna terminal, spurious radiated emission, frequency stability, band edge and radiated margin.

Related Submittal(s)/Grant(s)

FCC Part 15.247 Bluetooth and Wi-Fi submission, FCC ID: XJS20070901

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-part J as well as the following parts:

Part 22 Subpart H - Public Mobile Services

Part 24 Subpart E - Personal Communication Services

Applicable Standards: TIA/EIA 603-C, ANSI C63.4-2003.

All radiated and conducted emissions measurements were performed at Bay Area Compliance Laboratories Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp.(Shenzhen) to collect test data is located in the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 21, 2007. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200707-0).



The current scope of accreditations can be found at http://ts.nist.gov/Standards/scopes/2007070.htm

SYSTEM TEST CONFIGURATION

Justification

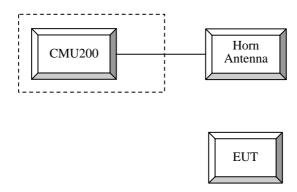
The EUT was configured for testing according to TIA/EIA-603-C.

The final qualification test was performed with the EUT operating at normal mode.

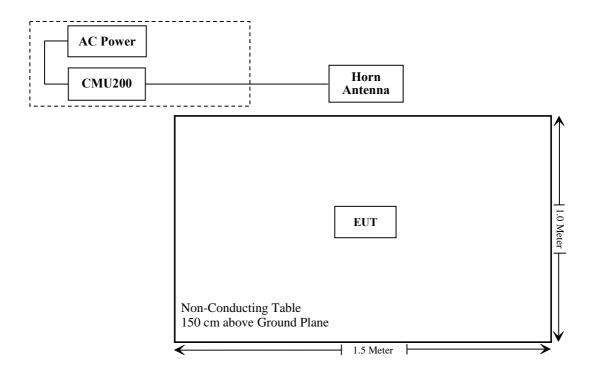
Equipment Modifications

No modifications were made to the EUT.

Configuration of Test Setup



Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307, §2.1093	RF Exposure (SAR)	Compliant *
\$2.1046, \$ 22.913 (a), \$ 24.232 (c)	RF Output Power	Compliant
§ 2.1047	Modulation Characteristics	N/A
\$ 2.1049 \$ 22.917, \$ 24.238	99% & -26 dB Occupied Bandwidth	Compliant
§ 2.1051, § 22.917 (a), § 24.238 (a)	Spurious Emissions at Antenna Terminal	Compliant
§ 2.1053, § 22.917 (a), § 24.238 (a)	Field Strength of Spurious Radiation	Compliant
§ 22.917 (a), § 24.238 (a)	Out of band emission, Band Edge	Compliant
§ 2.1055 § 22.355, § 24.235	Frequency stability vs. temperature Frequency stability vs. voltage	Compliant

^{*} SAR report released by BACL, Report Number: R09060513-FCC-SAR

§1.1307 & §2.1093 - RF EXPOSURE

Applicable Standard

§1.1307 and §2.1093.

Test Result

Compliance

The EUT is a portable device, thus requires SAR evaluation; please refer to BACL SAR Report: R09060513-FCC-SAR.

§2.1047 - 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.

§ 2.1046, § 22.913 (a) & § 24.232 (c) - RF OUTPUT POWER

Applicable Standard

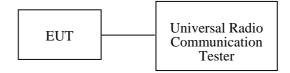
According to FCC $\S 2.1046$ and $\S 22.913$ (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC $\S 2.1046$ and $\S 24.232$ (C), in no case may the peak output power of a base station transmitter exceed 2 watt EIRP.

Test Procedure

Conducted method:

The RF output of the transmitter was connected to the wireless test set and the spectrum analyzer through sufficient attenuation.



Radiated method:

TIA 603-C section 2.2.17

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Horn Antenna	DRH-118	A052604	2008-09-25	2009-09-25
Rohde & Schwarz	Spectrum Analyzer	FSEM30	849720/019	2008-08-28	2009-08-27
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2009-03-11	2010-03-11
HP	Preamplifier 8449B 3008A00277		2008-09-12	2009-09-11	
HP	Signal Generator	HP8657A	2849U00982	2008-10-16	2009-10-15
HP	Amplifier	HP8447D	2944A09795	2008-08-02	2009-08-02
HP	Synthesized Sweeper	8341B	2624A00116	2008-11-07	2009-11-06
COM POWER	Dipole Antenna	AD-100	041000	2009-09-25	2009-09-25
A.H. System	Horn Antenna	SAS-200/571	135	2009-05-17	2010-05-17
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2009-05-09	2010-05-09

^{*} **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

The testing was performed by Phoenix Liu on 2009-07-09.

Conducted Power

Cellular Band (Part 22H)

Mode	Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)
	Low	824.2	31.24	38.45
GSM	Middle	836.6	31.33	38.45
	High	848.8	31.52	38.45
	Low	824.2	31.27	38.45
GRPS	Middle	836.6	31.36	38.45
	High	848.8	31.56	38.45

PCS Band (Part 24E)

Mode	Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)
	Low	1850.2	28.38	33
GSM	Middle	1880.0	28.39	33
	High	1909.8	28.68	33
	Low	1850.2	28.43	33
GRPS	Middle	1880.0	28.45	33
	High	1909.8	28.72	33

Radiated Power (ERP and EIRP)

Cellular Band (Part 22H)

GSM:

Indic	ated	Table	Test A	ntenna	Su	bstituted		Antenna	Cable	Absolute	Part 22H
Frequency (MHz)	S.A. Reading (dBµV)	Angle Degree	Height (m)	Polar (H/V)	Frequency (MHz)	S.G. Level (dBm)	Ant. Polar (H/V)	Gain Cord.	Loss (dB)	Level (dBm)	Limit (dBm)
					Low Cha	annel					
824.2	99.90	20	1.2	Н	824.2	24.9	Н	0	0.9	24.00	38.45
824.2	105.67	0	1.5	V	824.2	28.6	V	0	0.9	27.70	38.45
					Middle Cl	hannel					
836.6	99.98	25	1.2	Н	836.6	25.2	Н	0	0.9	24.30	38.45
836.6	103.97	5	1.5	V	836.6	27.0	V	0	0.9	26.10	38.45
	High Channel										
848.8	99.48	30	1.6	Н	848.8	24.7	Н	0	0.9	23.80	38.45
848.8	105.69	10	1.5	V	848.8	28.4	V	0	0.9	27.50	38.45

GPRS:

Indic	ated	Table	Test A	ntenna	Su	bstituted		Antenna	Cable	Absolute	Part 22H
Frequency (MHz)	- ' Reading I	Angle Degree	Height (m)	Polar (H/V)	Frequency (MHz)	S.G. Level (dBm)	Ant. Polar (H/V)	Gain Cord.	Loss (dB)	Level (dBm)	Limit (dBm)
					Low Cha	annel					
824.2	103.12	5	1.2	Н	824.2	28.3	Н	0	0.9	27.4	38.45
824.2	107.01	0	1.5	V	824.2	30.1	V	0	0.9	29.2	38.45
					Middle Cl	hannel					
836.6	101.72	10	1.0	Н	836.6	26.9	Н	0	0.9	26.0	38.45
836.6	106.98	0	1.5	V	836.6	29.7	V	0	0.9	28.8	38.45
High Channel											
848.8	102.35	45	1.6	Н	848.8	27.5	Н	0	0.9	26.6	38.45
848.8	107.45	10	1.5	V	848.8	30.3	V	0	0.9	29.4	38.45

PCS Band (Part 24E)

GSM:

Indic	ated	Table	Test A	ntenna	Su	bstituted		Antenna	Cable	Absolute	Part 24E
Frequency (MHz)	S.A. Reading (dBµV)	Angle Degree	Height (m)	Polar (H/V)	Frequency (MHz)	S.G. Level (dBm)	Ant. Polar (H/V)	Gain Cord.	Loss (dB)	Level (dBm)	Limit (dBm)
					Low Cha	annel					
1850.2	89.52	180	1.5	Н	1850.2	18.9	Н	6.2	1.02	24.08	33
1850.2	92.72	175	1.3	V	1850.2	21.8	V	6.2	1.02	26.98	33
					Middle Cl	hannel					
1880	87.25	180	1.9	Н	1880	18.5	Н	6.2	1.03	23.67	33
1880	91.1	170	1.4	V	1880	19.9	V	6.2	1.03	25.07	33
High Channel											
1909.8	87.63	180	1.9	Н	1909.8	18.6	Н	6.2	1.03	23.77	33
1909.8	91.41	160	1.4	V	1909.8	20.6	V	6.2	1.03	25.77	33

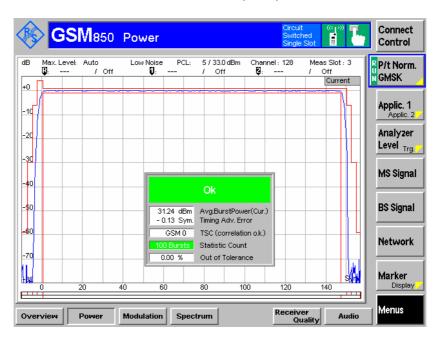
GPRS:

Indic	ated	Table	Test A	ntenna	Sul	bstituted		Antenna	Cable	Absolute	Part 24E
Frequency (MHz)	S.A. Reading (dBµV)	Angle Degree	Height (m)	Polar (H/V)	Frequency (MHz)	S.G. Level (dBm)	Ant. Polar (H/V)	Gain Cord.	Loss (dB)	Level (dBm)	Limit (dBm)
					Low Cha	annel					
1850.2	88.71	330	1.54	Н	1850.2	17.6	Н	6.2	1.02	22.78	33
1850.2	90.39	68	1.3	V	1850.2	19.5	V	6.2	1.02	24.68	33
					Middle Cl	hannel					
1880	85.41	330	1.9	Н	1880	16.6	Н	6.2	1.03	21.77	33
1880	89.77	74	1.49	V	1880	18.7	V	6.2	1.03	23.87	33
High Channel											
1909.8	85.70	320	1.9	Н	1909.8	16.9	Н	6.2	1.03	22.07	33
1909.8	89.54	82	1.4	V	1909.8	18.8	V	6.2	1.03	23.97	33

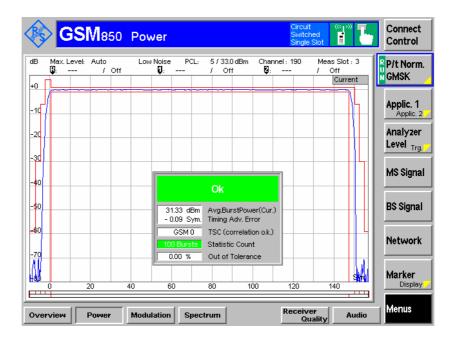
Plots of Conducted Output Power

Cellular Band (Part 22H)

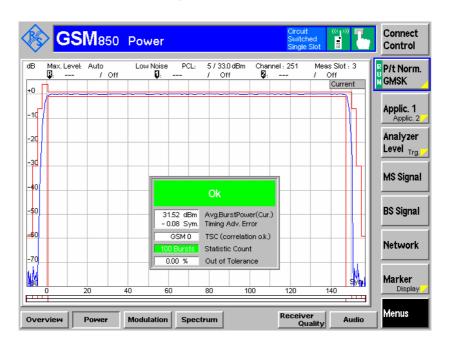
Low Channel (GSM)



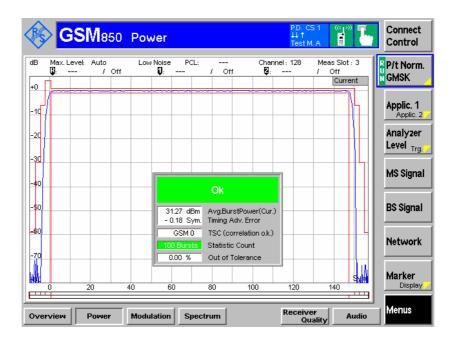
Middle Channel (GSM)



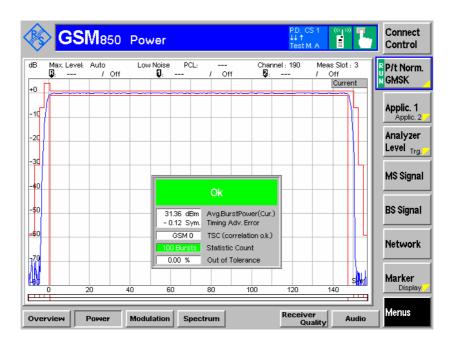
High Channel (GSM)



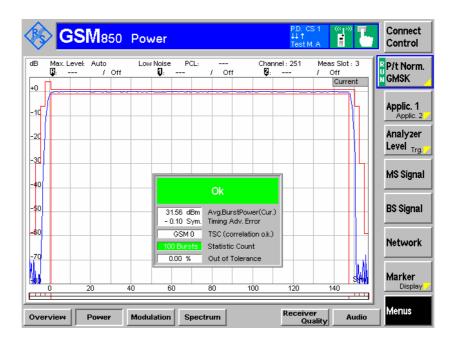
Low Channel (GPRS)



Middle Channel (GPRS)

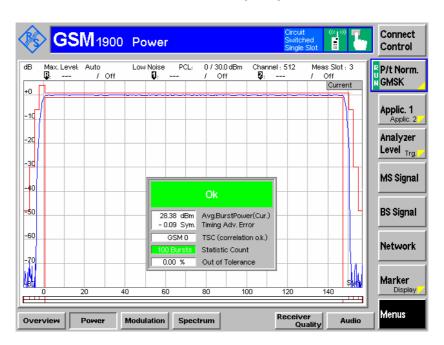


High Channel (GPRS)

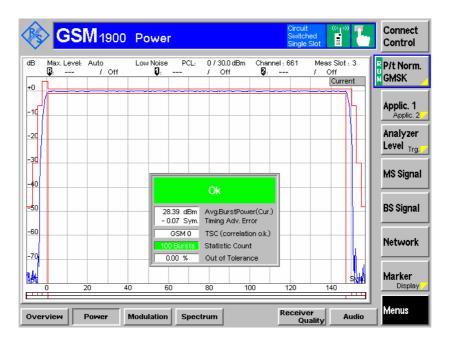


PCS Band (Part 24E)

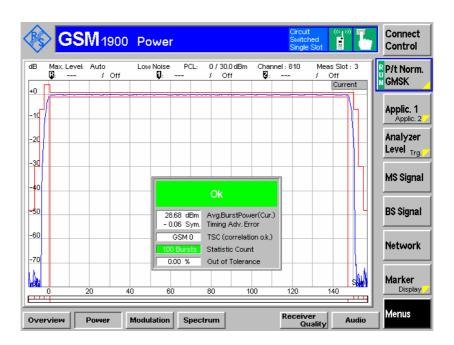
Low Channel (GSM)



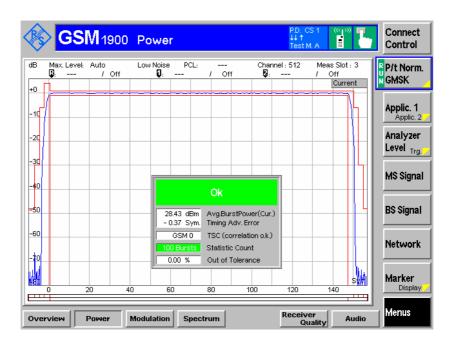
Middle Channel (GSM)



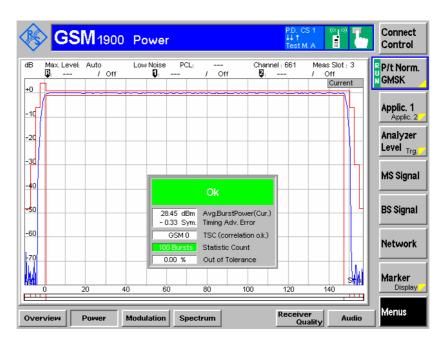
High Channel (GSM)



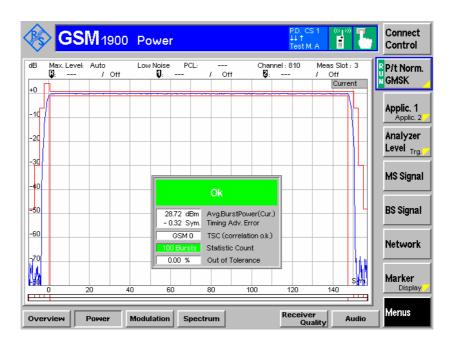
Low Channel (GPRS)



Middle Channel (GPRS)



High Channel (GPRS)



§2.1049, §22.917, §22.905 & §24.238 - OCCUPIED BANDWIDTH

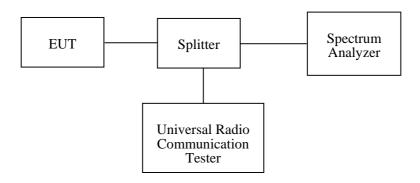
Applicable Standards

CFR 47 §2.1049, §22.917, §22.905 and §24.238.

Test Procedure

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 30 kHz (Cellular /PCS) and the 26 dB & 99% bandwidth was recorded.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	I Test Receiver ESCI		2008-11-07	2009-10-16
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2009-05-09	2010-05-09

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56%
ATM Pressure:	100.0kPa

The testing was performed by Phoenix Liu on 2009-07-03.

Cellular Band (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Occupied Bandwidth (kHz)		
190	836.6	248	336		

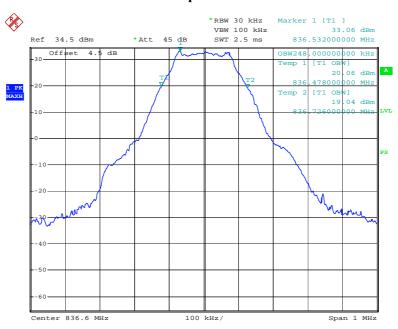
PCS Band (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Occupied Bandwidth (kHz)
661	1880.0	248	336

Please refer to the following plots.

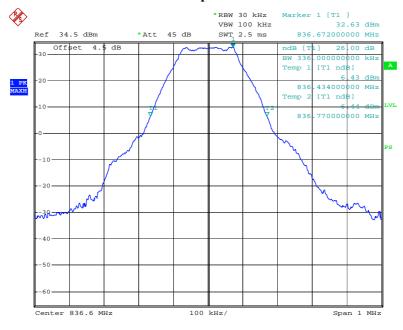
Cellular Band (Part 22H)

99% Occupied Bandwidth



Date: 3.JUL.2009 08:38:52

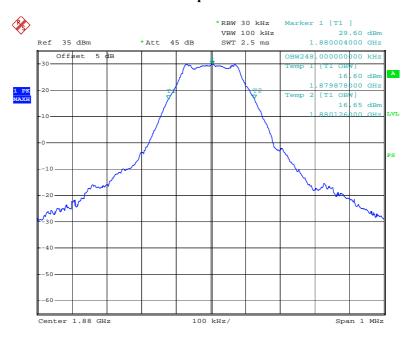
26 dB Occupied Bandwidth



Date: 3.JUL.2009 08:40:58

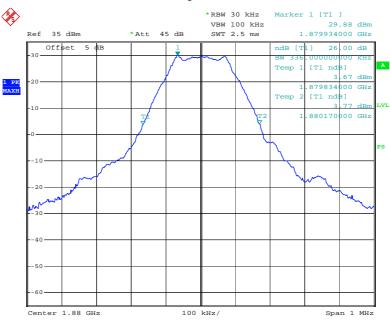
PCS Band (Part 24E)

99% Occupied Bandwidth



Date: 3.JUL.2009 08:36:54

26 dB Occupied Bandwidth



Date: 3.JUL.2009 08:35:07

$\S 2.1051,\,\S 22.917(a)$ & $\S 24.238(a)$ - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

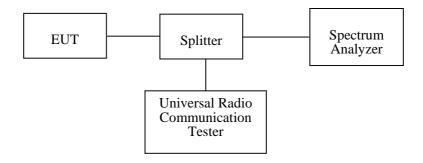
Applicable Standards

CFR 47 §2.1051, §22.917(a) and §24.238(a).

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1051.

Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100 kHz. Sufficient scans were taken to show any out of band emissions up to 10^{th} harmonic.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	
Rohde & Schwarz	Spectrum Analyzer FSEM30 84		849720/019	2008-08-28	2009-08-27	
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2009-05-09	2010-05-09	

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

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Test Data

Environmental Conditions

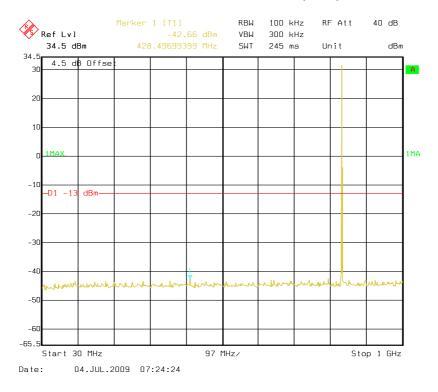
Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

The testing was performed by Phoenix Liu on 2009-07-04.

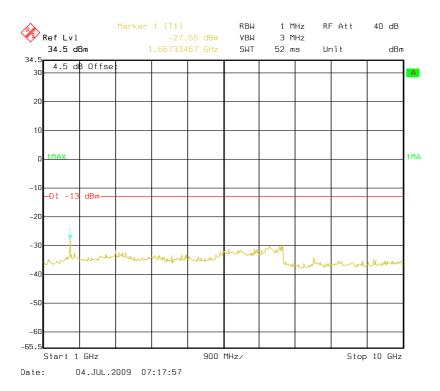
Please refer to the following plots.

Cellular Band (Part 22H)

30 - 1000 MHz - Middle Channel (GSM)

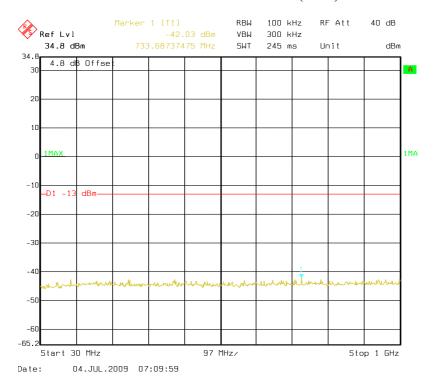


1 – 10 GHz - Middle Channel (GSM)

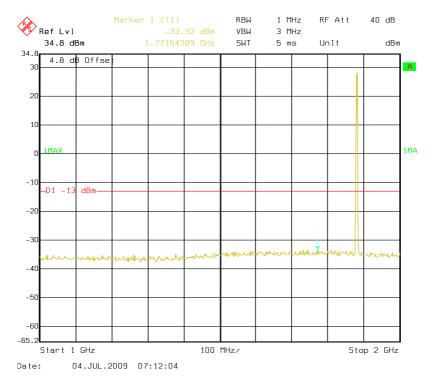


PCS Band (Part24E)

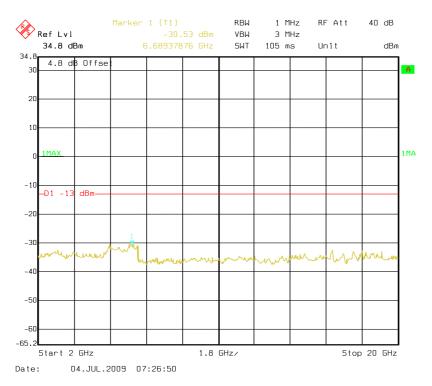
30 - 1000 MHz - Middle Channel (GSM)



1 - 2 GHz - Middle Channel (GSM)

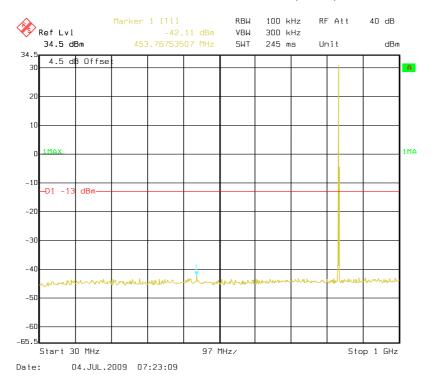


2 – 20 GHz - Middle Channel (GSM)

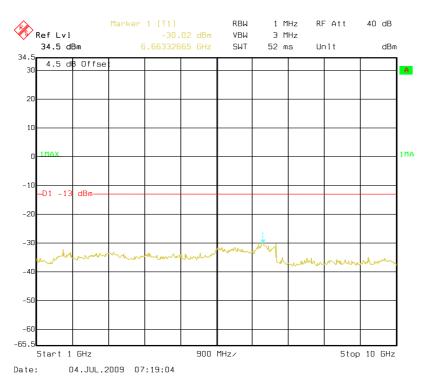


Cellular Band (Part22H)

30 – 1000 MHz - Middle Channel (GPRS)

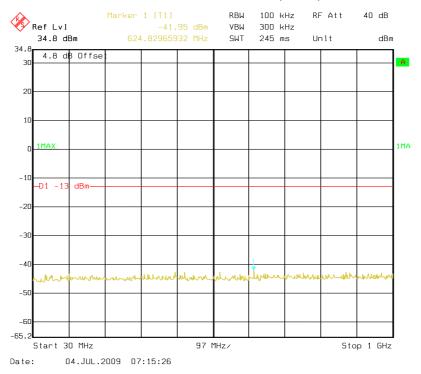


1 – 10 GHz - Middle Channel (GPRS)

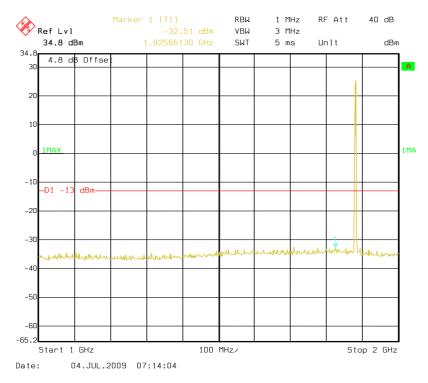


PCS Band (Part24E)

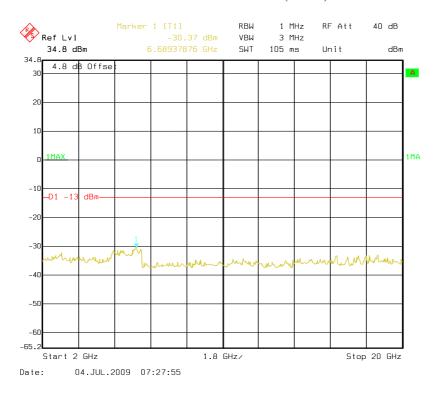
30 – 1000 MHz - Middle Channel (GPRS)



1 – 2 GHz - Middle Channel (GPRS)



2 – 20 GHz - Middle Channel (GPRS)



§2.1053, §22.917 §24.238 - SPURIOUS RADIATED EMISSIONS

Applicable Standards

CFR 47 § 2.1053, §22.917 and § 24.238.

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in $dB = 10 \lg (TXpwr in Watts/0.001) - the absolute level$

Spurious attenuation limit in $dB = 43 + 10 \text{ Log}_{10}$ (power out in Watts)

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	
Sunol Sciences	Horn Antenna	DRH-118	A052604	2008-09-25	2009-09-25	
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2009-03-11	2010-03-11	
Rohde & Schwarz	Spectrum Analyzer	FSEM30	849720/019	2008-08-28	2009-08-27	
HP	Preamplifier	8449B 3008A00277		2008-09-12	2009-09-11	
HP	Signal Generator	HP8657A	2849U00982	2008-10-16	2009-10-15	
HP	Amplifier	HP8447D	2944A09795	2008-08-02	2009-08-02	
HP	Synthesized Sweeper	8341B	2624A00116	2008-11-07	2009-11-06	
COM POWER	Dipole Antenna	AD-100	041000	2008-09-25	2009-09-25	
A.H. System	Horn Antenna	SAS-200/571	135	2009-05-17	2010-05-17	
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2009-05-09	2010-05-09	

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

The testing was performed by Phoenix Liu on 2009-06-27.

Test mode: Transmitting

Below 1 GHz:

Cellular Band (Part 22H)

Indica	ited	Table	Test Aı	ntenna		Substitu	ıted		Absolute	FCC	
Frequency (MHz)	S.A. Reading (dBµV)	Angle	Height (m)	Polar (H/V)	Frequency (MHz)	Level (dBm)	Ant. Gain (dBi)	Cable Loss (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
	Middle Channel										
979.99	49.42	124	1.5	Н	979.99	-48.24	0	0.80	-49.04	-13	36.04
641.65	48.37	205	1.0	Н	641.65	-49.51	0	0.77	-50.28	-13	37.28
732.04	47.75	78	1.5	V	732.04	-50.89	0	0.76	-51.65	-13	38.65
550.47	47.71	125	1.2	V	550.47	-51.26	0	0.65	-51.91	-13	38.91

PCS Band (Part24E)

Indica	ated	Table	Test Aı	ntenna		Substitu	ıted		Absolute	FCC	Margin (dB)
Frequency (MHz)	S.A. Reading (dBµV)	Angle	Height (m)	Polar (H/V)	Frequency (MHz)	Level (dBm)	Ant. Gain (dBi)	Cable Loss (dB)	Level (dBm)	Limit (dBm)	
Middle Channel											
730.89	50.04	207	1.0	Н	720.64	-48.18	0	0.74	-48.92	-13	35.92
527.97	49.12	125	1.5	Н	540.22	-48.56	0	0.65	-49.21	-13	36.21
917.13	46.61	241	1.2	V	906.88	-53.14	0	0.76	-53.90	-13	40.90
980.84	44.25	75	1.5	V	992.24	-55.23	0	0.80	-56.03	-13	43.03

Above 1 GHz:

Cellular Band (Part 22H)

Indica	ited	Table	Test Aı	itenna		Substitu	uted		Absolute Level (dBm)	FCC	Margin (dB)
Frequency (MHz)	S.A. Reading (dBµV)	Angle Degree	Height (m)	Polar (H/V)	Frequency (MHz)	Level (dBm)	Ant. Gain (dBi)	Cable Loss (dB)		Limit (dBm)	
					Middle Cha	annel					
1134.26	55.44	73	1.5	V	1134.26	-44.6	6.3	0.80	-39.1	-13	26.10
1134.26	50.06	80	1.0	Н	1134.26	-50.1	6.3	0.80	-44.6	-13	31.60
2509.80	46.79	80	1.3	V	2509.80	-55.3	7.3	1.19	-49.19	-13	36.19
2509.80	45.86	132	1.5	Н	2509.80	-55.8	7.3	1.19	-49.69	-13	36.69
3346.60	42.18	140	1.3	V	3346.60	-61.6	6.7	1.38	-56.28	-13	43.28
3346.60	41.14	117	1.4	Н	3346.60	-62.4	6.7	1.38	-57.08	-13	44.08

PCS Band (Part24E)

Indica	ated Table		Test Aı	ntenna		Substituted				FCC	
Frequency (MHz)	S.A. Reading (dBµV)	Angle Degree	Height (m)	Polar (H/V)	Frequency (MHz)	Level (dBm)	Ant. Gain (dBi)	Cable Loss (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
	Middle Channel										
5640	45.00	160	1.6	V	5640	-59.2	8.3	1.76	-52.66	-13	39.66
7520	43.83	170	1.5	V	7520	-58.2	7.6	2.09	-52.69	-13	39.69
5640	44.59	70	1.5	Н	5640	-59.5	8.3	1.76	-52.96	-13	39.96
7520	43.59	100	1.5	Н	7520	-58.5	7.6	2.09	-52.99	-13	39.99
3760	45.54	180	1.9	V	3760	-59.9	6.9	1.47	-54.47	-13	41.47
3760	44.49	140	1.6	Н	3760	-61.1	6.9	1.47	-55.67	-13	42.67

§22.917(a) & §24.238(a) - BAND EDGES

Applicable Standards

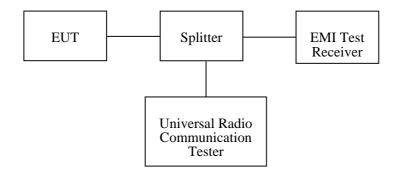
According to § 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

According to \$24.238(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$.

Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency, RBW set to 10 kHz.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100224	2008-11-07	2009-11-06
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2009-05-09	2010-05-09

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

The testing was performed by Phoenix Liu on 2009-07-03.

Please refer to the following tables and plots.

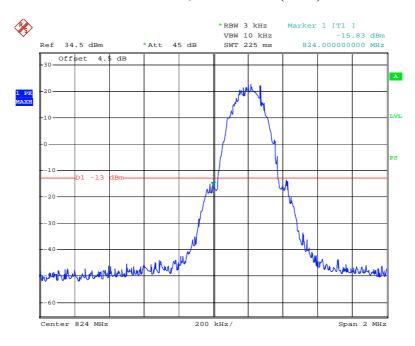
Cellular Band (Part 22H)

Mode	Frequency (MHz)	Emission (dBm)	Limit (dBm)
GSM	824	-15.83	-13
GSIVI	849	-17.49	-13
GPRS	824	-13.36	-13
	849	-16.96	-13

PCS Band (Part 24E)

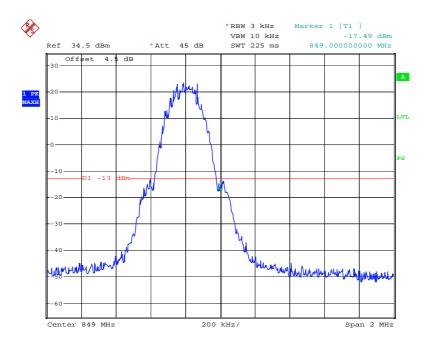
Mode	Frequency (MHz)	Emission (dBm)	Limit (dBm)
GSM	1850	-16.12	-13
OSW	1910	-16.84	-13
GPRS	1850	-14.15	-13
	1910	-16.84	-13

Cellular Band, Left Channel (GSM)



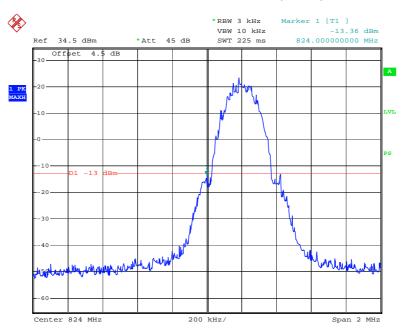
Date: 3.JUL.2009 09:02:10

Cellular Band, Right Channel (GSM)



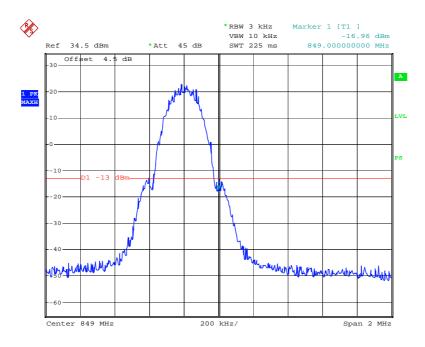
Date: 3.JUL.2009 09:05:26

Cellular Band, Left Channel (GPRS)



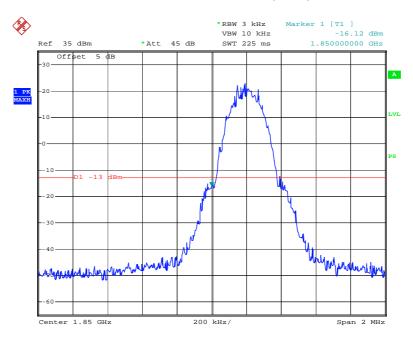
Date: 3.JUL.2009 09:01:32

Cellular Band, Right Channel (GPRS)



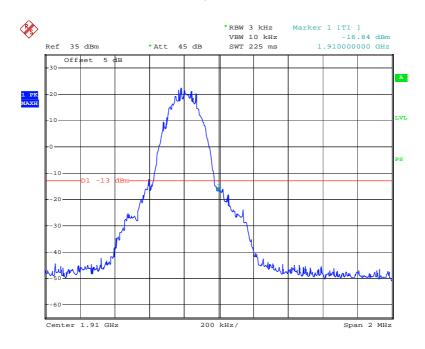
Date: 3.JUL.2009 09:04:30

PCS Band, Left Channel (GSM)



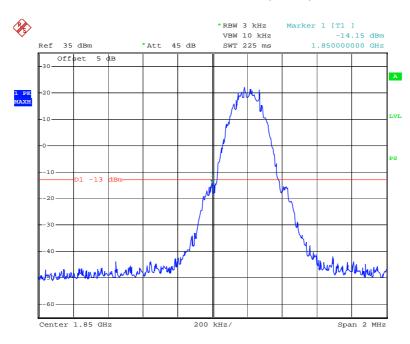
Date: 3.JUL.2009 08:55:56

PCS Band, Right Channel (GSM)



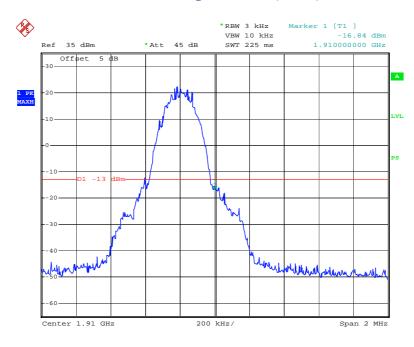
Date: 3.JUL.2009 08:53:03

PCS Band, Left Channel (GPRS)



Date: 3.JUL.2009 08:54:36

PCS Band, Right Channel (GPRS)



Date: 3.JUL.2009 08:53:03

§2.1055, §22.355 & §24.235 - FREQUENCY STABILITY

Applicable Standard

CFR47 § 2.1055 (a), § 2.1055 (d), §22.355, §24.235

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services
--

Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤3 watts (ppm)	Mobile ≤ 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

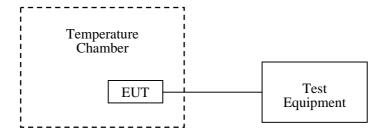
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: An external variable DC power supply was connected to the battery terminals of the equipment under test. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the battery end point. The output frequency was recorded for each battery voltage.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
WUHUAN	Temperature & Humidity Chamber	HTP205	20021115	2009-05-09	2010-05-09
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2009-05-09	2010-05-09

^{*} **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

The testing was performed by Phoenix Liu on 2009-07-08.

Cellular Band (Part 22H)

Middle Channel, fo = 836.6 MHz				
Test En	vironment	Frequency Error		Limit
Temperature (°C)	Power Supplied (Vdc)	(Hz)	(ppm)	(ppm)
-20	3.7	8	0.0096	2.5
-10	3.7	7	0.0084	2.5
0	3.7	7	0.0084	2.5
20	3.7	6	0.0072	2.5
40	3.7	7	0.0084	2.5
55	3.7	8	0.0096	2.5
25	3.5	7	0.0084	2.5

PCS Band (Part 24E)

Middle Channel, fo = 1880.0 MHz				
Test En	vironment	Frequency Error		Limit
Temperature (°C)	Power Supplied (Vdc)	(Hz)	(ppm)	(ppm)
-20	3.7	-27	-0.0144	2.5
-10	3.7	-25	-0.0133	2.5
0	3.7	-24	-0.0128	2.5
20	3.7	-26	-0.0138	2.5
40	3.7	-28	-0.0149	2.5
55	3.7	-26	-0.0138	2.5
25	3.5	-31	-0.0165	2.5

DECALARATION LETTER



Product Similarity Declaration

To Whom It May Concern,

We, FIVING TECHNOLOGY DEVELOPMENT CO.,LTD, hereby declare that our GSM&GPRS Dual Standby Mobile Phone, Model Number: F009, F999. D9A are electrically identical with the Model Number: F8 that was certified by BACL. F009, F999. D9A and F8 are named differently due to marketing purposes.

Please contact me if you have any question.

Signature:

Print Name: Yuanjian Hu

Title: Engineering Manager

Date:2009-07-06

***** END OF REPORT *****

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