



FCC PART 22H, PART 24E TEST REPORT

For

Shenzhen CE and IT Limited

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FCC ID: YG54C2D

Report Type: **Product Type:** Mobile Phone Original Report Tiger He **Test Engineer:** Tiger Ye **Report Number:** RSZ120814014-00B **Report Date:** 2012-09-11 Alvin Huang **Reviewed By:** RF Leader **Test Laboratory:** Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F, the 3rd Phase of WanLi Industrial Building ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

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*, or any agency of the Federal Government.

* This report may contain data that are not covered by the NVLAP accreditation and shall be marked with an asterisk "*

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Shenzhen CE and IT Limited*'s product, model number: *4C and 2D (FCC ID: YG54C2D)* or the "EUT" in this report was a *Mobile Phone*, which was measured approximately: 10.2 cm (L) x 4.5 cm (W) x 1.3 cm (H), rated input voltage: DC 3.7 V from battery.

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Note: the product Mobile phone, series model 4C and 2D are electrically identical, they have the same PCB layout and schematic, the difference between them was explained in the attached declaration letter. We selected 4C for fully testing and 2D for different testing

* All measurement and test data in this report was gathered from production sample serial number: 1208064 (Assigned by Shenzhen BACL). The EUT supplied by the applicant was received on 2012-08-14.

Objective

This test report is prepared on behalf of *Shenzhen CE and IT Limited* 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 the compliance of the EUT with FCC rules for output power, modulation characteristic, occupied bandwidth, and spurious emission at antenna terminal, spurious radiated emission, frequency stability and band edge.

Related Submittal(s)/Grant(s)

FCC 15B JBP submissions with FCC ID: YG54C2D

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2-Subpart 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-D, ANSI C63.4-2009.

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 on 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 December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

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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 an ISO/IEC 17025 accredited laboratory, and is accredited by National Voluntary Laboratory Accredited Program (Lab Code 200707-0).

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

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

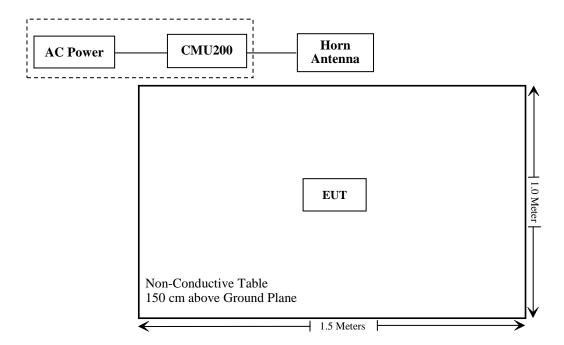
The EUT was configured for testing according to TIA/EIA-603-D.

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

Equipment Modifications

No modification was made to the EUT.

Block Diagram of Test Setup



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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307, §2.1093	RF Exposure (SAR)	Compliance*
\$2.1046; \$ 22.913 (a); \$ 24.232 (c)	RF Output Power	Compliance
§ 2.1047	Modulation Characteristics	Not Applicable
§ 2.1049; § 22.905 § 22.917; § 24.238	Occupied Bandwidth	Compliance
§ 2.1051, § 22.917 (a); § 24.238 (a)	Spurious Emissions at Antenna Terminal	Compliance
§ 2.1053 § 22.917 (a); § 24.238 (a)	Field Strength of Spurious Radiation	Compliance
§ 22.917 (a); § 24.238 (a)	Out of band emission, Band Edge	Compliance
§ 2.1055 § 22.355; § 24.235	Frequency stability vs. temperature Frequency stability vs. voltage	Compliance

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Note: * Please refer to SAR report released by BACL, reports number: RSZ120814014-20.

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FCC §1.1307 & §2.1093 - RF EXPOSURE

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Applicable Standard

FCC§1.1307 and §2.1093.

Test Result

Compliance, please refer to the SAR reports: RSZ120814014-20.

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FCC §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.

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

Applicable Standard

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

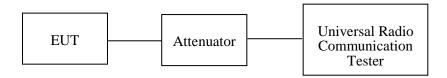
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According to FCC §2.1046 and §24.232 (C), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications..

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-D 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	A052304	2011-12-01	2012-11-30
BIZI	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23
Sunol Sciences	Sunol Sciences Broadband Antenna		A040904-2	2011-11-28	2012-11-27
НР	Signal Generator	8657A	3217A04699	2011-12-19	2012-12-18
HP	Synthesized Sweeper	8341B	2624A00116	2012-05-17	2013-05-16
COM POWER	Dipole Antenna	AD-100	041000	2012-06-05	2013-06-04
A.H. System	Horn Antenna	SAS-200/571	135	2012-02-11	2013-02-10
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2012-04-11	2013-04-10

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

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Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

The testing was performed by Tiger Ye on 2012-08-18.

Conducted Power

Peak Power

Cellular Band (Part 22H)

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Mode	ode Channel Frequer (MHz		Peak Output Power (dBm)	Limit (dBm)	
	128	824.2	32.53	38.45	
GSM	190	836.6	32.44	38.45	
	251	848.8	32.39	38.45	

Mode	Frequency		Limit					
Mode	(MHz)	Slot 1	Slot 2	Slot 3	Slot 4	(dBm)		
	824.2	2 32.55 32.40		32.40				38.45
GPRS	836.6	32.47	32.30	No support		38.45		
	848.8	32.38	32.22			38.45		

PCS Band (Part 24E)

Mode	Channel	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)
	512	1850.2	29.70	33
GSM	661	1880.0	29.66	33
	810	1909.8	29.59	33

Mode	Frequency		Peak Output	Power (dBm)	Limit	
Mode	(MHz)	Slot 1	Slot 2	Slot 3	Slot 4	(dBm)
	1850.2	29.76	29.64			33
GPRS	1880.0 29.70 29.59		No su	33		
	1909.8	29.67	29.54			33

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Radiated Power

ERP & EIRP

GSM Mode:

ERP for Cellular Band (Part 22H)

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	Receiver	Turn	Turn Rx Antenna Substituted		Absolute	FCC Part	22H/24E			
Frequency (MHz)	Reading Angle	Table Angle Degree	Height (m)	Polar (H/V)	S.G. Level (dBm)	Cable Loss (dB)	Antenna Gain(dB)	Level (dBm)	Limit (dBm)	Margin (dB)
	Low Channel									
824.2	86.87	76	1.8	Н	19.0	0.69	0.0	18.31	38.45	20.14
824.2	98.53	46	1.7	V	31.2	0.69	0.0	30.51	38.45	7.94

EIRP for PCS Band (Part 24E)

Frequency (MHz)		Receiver Turn		Turn Rx Antenna Substituted		Absolute	FCC Part	22H/24E			
		Reading (dBµV)	Table	Height (m)	Polar (H/V)	S.G. Level (dBm)	Cable Loss (dB)	Antenna Gain(dB)	Level (dBm)	Limit (dBm)	Margin (dB)
	Low Channel										
	1850.2	91.48	64	1.7	Н	17.4	1.03	9.4	25.77	33	7.23
	1850.2	89.89	67	1.8	V	21.0	1.03	9.4	29.37	33	3.63

Note:

Absolute Level = SG Level - Cable loss + Antenna Gain Margin = Limit- Corr. Amplitude

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

Applicable Standard

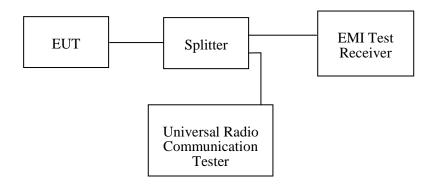
FCC §2.1049, §22.917, §22.905 and §24.238

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 3 kHz (Cellular /PCS) and the 26 dB & 99% bandwidth was recorded.

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Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	101122	2012-08-08	2013-08-07
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2012-04-11	2013-04-10

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

Test Data

Environmental Conditions

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

The testing was performed by Tiger Ye on 2012-08-18.

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Test Mode: Transmitting

Test Result: Compliance. Please refer to the following tables and plots.

GMSK Modulation:

Cellular Band (Part 22H)

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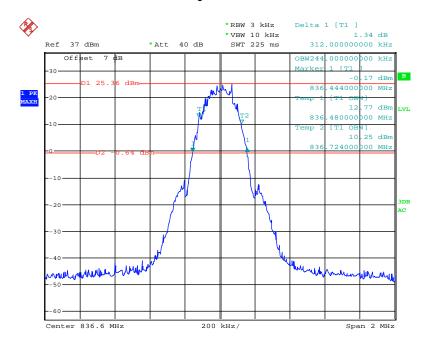
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)	
GSM	190	836.6	244	312	

PCS Band (Part 24E)

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)	
GSM	661	1880.0	244	316	

Cellular Band (Part 22H)

99% Occupied & 26 dB Bandwidth



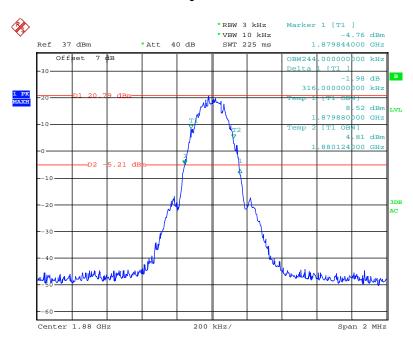
Date: 18.AUG.2012 15:08:59

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PCS Band (Part 24E)

99% Occupied & 26 dB Bandwidth

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Date: 18.AUG.2012 15:16:37

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FCC §2.1051, §22.917(a) & §24.238(a) - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

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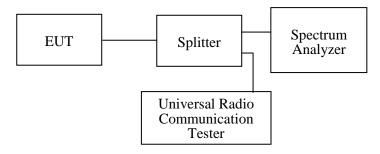
Applicable Standard

FCC §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 1MHz. Sufficient scans were taken to show any out of band emissions up to 10th harmonic.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2012-04-11	2013-04-10	
BIZI	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23	

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

Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

The testing was performed by Tiger Ye on 2012-08-18.

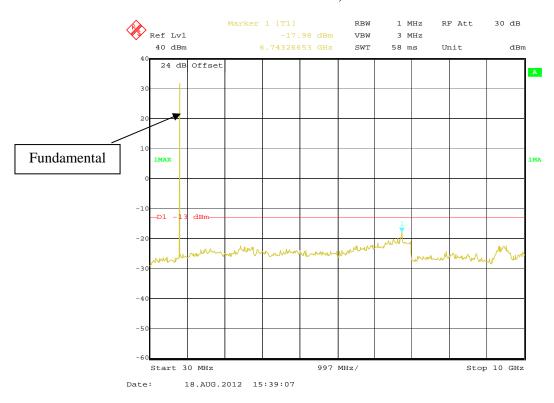
Please refer to the following plots.

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Cellular Band (Part 22H)

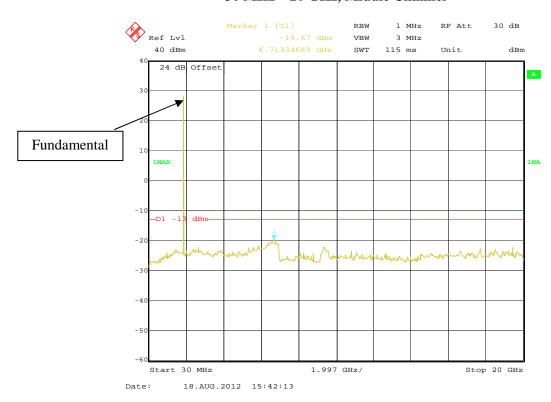
30 MHz - 10 GHz, Middle Channel

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PCS Band (Part 24E)

30 MHz - 20 GHz, Middle Channel



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FCC §2.1053, §22.917 & §24.238 - SPURIOUS RADIATED EMISSIONS

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Applicable Standard

FCC § 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 receiving 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	A052304	2011-12-01	2012-11-30
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2011-11-28	2012-11-27
BIZI	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23
SUPER ULTRA	Amplifier	ZVA-213+	N/A	2011-11-24	2012-11-23
НР	Signal Generator	8657A	3217A04699	2011-12-19	2012-12-18
НР	Amplifier	8447E	1937A01046	2011-11-24	2012-11-23
НР	Synthesized Sweeper	8341B	2624A00116	2012-05-17	2013-05-16
COM POWER	Dipole Antenna	AD-100	041000	2012-06-05	2013-06-04
A.H. System	Horn Antenna	SAS-200/571	135	2012-02-11	2013-02-10
Electro-Mechanics	Horn antenna	3116	9510-2270	2011-10-14	2012-11-13
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2012-04-11	2013-04-10

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

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Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

The testing was performed by Tiger Ye on 2012-08-09.

Test mode: Transmitting

30 MHz ~ 10 GHz:

Model: 2D

Cellular Band (Part 22H)

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	Receiver	Turn	Rx Ar	ntenna		Substitute	d	Absolute	FCC Part	22H/24E
Frequency (MHz)	Reading (dBµV)	Table Angle Degree	Height (m)	Polar (H/V)	S.G. Level (dBm)	Cable Loss (dB)	Antenna Gain(dB)	Level (dBm)	Limit (dBm)	Margin (dB)
				Mide	dle Chann	nel				
1673.2	59.63	75	1.7	V	-40.8	0.97	9.4	-32.37	-13	19.37
3346.4	50.62	93	1.7	V	-42.9	2.08	10.8	-34.18	-13	21.18
3346.4	48.25	77	1.7	Н	-46.2	2.08	10.8	-37.48	-13	24.48
2509.8	47.69	43	1.5	Н	-53.0	1.46	10.7	-43.76	-13	30.76
2509.8	43.22	35	1.8	V	-53.1	1.46	10.7	-43.86	-13	30.86
1673.2	50.61	53	1.8	Н	-52.4	0.97	9.4	-43.97	-13	30.97
511.7	40.37	203	1.7	V	-56.9	0.49	0.0	-57.39	-13	44.39
316.6	40.15	143	1.8	V	-57.1	0.42	0.0	-57.52	-13	44.52
162.7	39.74	83	1.7	Н	-57.5	0.26	0.0	-57.76	-13	44.76

30 MHz ~ 20 GHz:

PCS Band (Part 24E)

	Receiver	Turn	Rx Aı	ntenna		Substitute	ed	Absolute	FCC Part	22H/24E
Frequency (MHz)	Reading (dBµV)	Table Angle Degree	Height (m)	Polar (H/V)	S.G. Level (dBm)	Cable Loss (dB)	Antenna Gain(dB)	Level (dBm)	Limit (dBm)	Margin (dB)
				Mide	dle Chann	nel				
7520.0	55.71	46	1.7	Н	-32.5	3.07	12.0	-23.57	-13	10.57
7520.0	53.07	53	1.6	V	-36.3	3.07	12.0	-27.37	-13	14.37
3760.0	53.25	68	1.6	V	-42.9	2.96	10.4	-35.46	-13	22.46
5640.0	48.39	96	1.7	Н	-44.0	3.94	11.7	-36.24	-13	23.24
5640.0	45.11	55	1.5	V	-46.1	3.94	11.7	-38.34	-13	25.34
3760.0	51.18	77	1.7	Н	-45.8	2.96	10.4	-38.36	-13	25.36
512.2	40.12	67	1.8	V	-57.1	0.49	0.0	-57.59	-13	44.59
317.6	39.68	46	1.5	V	-57.6	0.42	0.0	-58.02	-13	45.02
161.5	38.64	68	1.7	Н	-58.6	0.26	0.0	-58.86	-13	45.86

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Cellular Band (Part 22H)

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	Receiver	Turn	Rx Aı	ntenna		Substitute	ed	Absolute	FCC Part	22H/24E
Frequency (MHz)	Reading (dBµV)	Table Angle Degree	Height (m)	Polar (H/V)	S.G. Level (dBm)	Cable Loss (dB)	Antenna Gain(dB)	Level (dBm)	Limit (dBm)	Margin (dB)
				Mide	dle Chanr	nel				
1673.2	58.97	14	1.5	V	-41.5	0.97	9.4	-33.07	-13	20.07
3346.4	49.68	26	1.8	V	-43.9	2.08	10.8	-35.18	-13	22.18
3346.4	48.55	339	1.8	Н	-45.9	2.08	10.8	-37.18	-13	24.18
2509.8	46.75	18	1.7	V	-49.6	1.46	10.7	-40.36	-13	27.36
2509.8	49.68	54	1.6	Н	-51.0	1.46	10.7	-41.76	-13	28.76
1673.2	51.28	117	1.8	Н	-51.8	0.97	9.4	-43.37	-13	30.37
164.3	41.26	225	1.6	Н	-56.0	0.26	0.0	-56.26	-13	43.26
315.9	40.18	28	1.5	V	-57.1	0.42	0.0	-57.52	-13	44.52
512.5	39.68	19	1.6	V	-57.6	0.49	0.0	-58.09	-13	45.09

30 MHz ~ 20 GHz:

PCS Band (Part 24E)

	Receiver	Turn	Rx Aı	ntenna		Substitute	ed	Absolute	FCC Part	22H/24E
Frequency (MHz)	Reading (dBµV)	Table Angle Degree	Height (m)	Polar (H/V)	S.G. Level (dBm)	Cable Loss (dB)	Antenna Gain(dB)	Level (dBm)	Limit (dBm)	Margin (dB)
				Mide	dle Chann	nel				
7520.0	55.02	128	1.7	Н	-33.2	3.07	12.0	-24.27	-13	11.27
7520.0	52.94	136	1.8	V	-36.5	3.07	12.0	-27.57	-13	14.57
3760.0	54.02	56	1.6	V	-42.1	2.96	10.4	-34.66	-13	21.66
5640.0	49.68	58	1.8	Н	-42.7	3.94	11.7	-34.94	-13	21.94
5640.0	46.39	115	1.6	V	-44.8	3.94	11.7	-37.04	-13	24.04
3760.0	51.96	29	1.5	Н	-45.0	2.96	10.4	-37.56	-13	24.56
511.3	41.22	56	1.6	V	-56.0	0.49	0.0	-56.49	-13	43.49
315.1	39.67	69	1.9	V	-57.6	0.42	0.0	-58.02	-13	45.02
162.4	39.26	54	1.5	Н	-58.0	0.26	0.0	-58.26	-13	45.26

Note:

Absolute Level = SG Level - Cable loss + Antenna Gain

Margin = Limit- Corr. Amplitude

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FCC §22.917(a) & §24.238(a) - BAND EDGES

Applicable Standard

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.

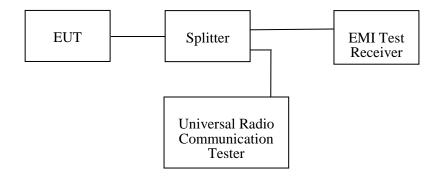
Report No.: RSZ120814014-00B

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 3 kHz.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
BIZI	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2012-04-11	2013-04-10

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

Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

The testing was performed by Tiger Ye on 2012-09-10.

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Test Mode: Transmitting

Test Result: Compliance. Please refer to the following tables and plots.

Cellular Band (Part 22H)

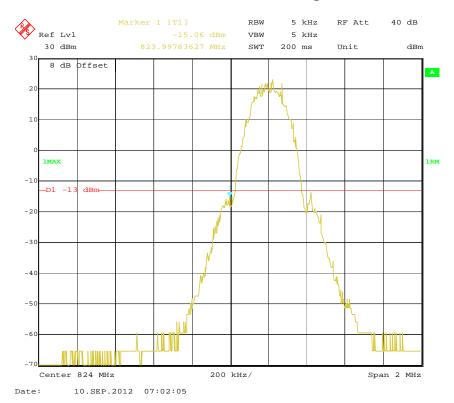
Report No.: RSZ120814014-00B

Mode	Frequency (MHz)	Emission (dBm)	Limit (dBm)
GSM	823.998	-15.06	≤-13
	849.026	-14.94	≤-13

PCS Band (Part 24E)

Mode	Frequency (MHz)	Emission (dBm)	Limit (dBm)
GSM	1849.998	-16.97	≤-13
	1910.022	-18.52	≤-13

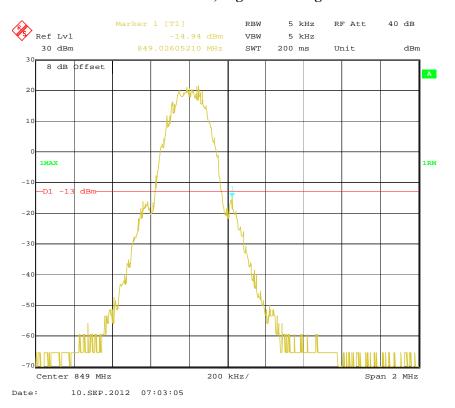
Cellular Band, Left Band Edge



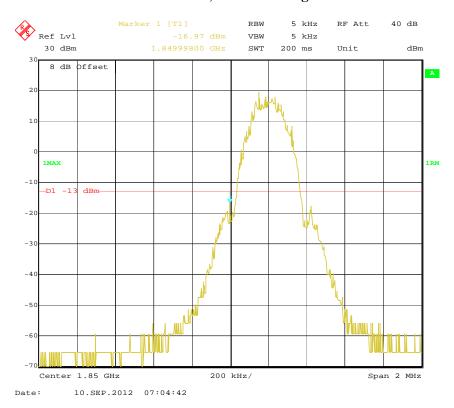
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Cellular Band, Right Band Edge

Report No.: RSZ120814014-00B



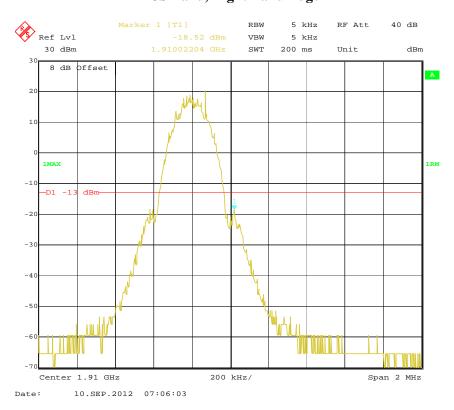
PCS Band, Left Band Edge



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PCS Band, Right Band Edge

Report No.: RSZ120814014-00B



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FCC §2.1055, §22.355 &§24.235 - FREQUENCY STABILITY

Applicable Standard

FCC § 2.1055 (a), § 2.1055 (d), §22.355, §24.235&§ 27.54

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	or	Transmitters	in	the	Public	Mobile	Services
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Report No.: RSZ120814014-00B

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

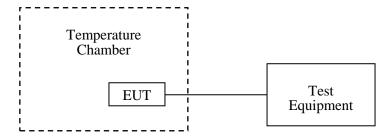
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

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.



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Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ESPEC	Temperature & Humidity Chamber	EL-10KA	09107726	2011-11-24	2012-11-23
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2012-04-11	2013-04-10

Report No.: RSZ120814014-00B

Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

The testing was performed by Tiger Ye on 2012-09-10.

Test Mode: Transmitting

Test Result: Compliance. Please refer to the following tables.

Cellular Band (Part 22H)

	Middle Channel, f _o =836.6 MHz					
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)		
-30		22	0.026	2.5		
-20		23	0.027	2.5		
-10		24	0.029	2.5		
0		25	0.030	2.5		
10	3.7	21	0.025	2.5		
20		22	0.026	2.5		
30		26	0.031	2.5		
40		28	0.033	2.5		
50		27	0.032	2.5		
25	3.5	29	0.035	2.5		

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

PCS Band (Part 24E)

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Middle Channel, $f_0 = 1880.0 \text{ MHz}$				
Temperature (℃)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Result
-30		36	0.019	Pass
-20		38	0.020	Pass
-10		35	0.019	Pass
0	3.7	39	0.020	Pass
10		41	0.022	Pass
20		40	0.021	Pass
30		38	0.020	Pass
40		35	0.019	Pass
50		34	0.018	Pass
25	3.5	33	0.018	Pass

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DECLARATION LETTER



Shenzhen CE and IT Limited

#602 A Block, Xinxin Bld, Hua Fu Rd, Fu Tian District Shenzhen, China

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2012-8-22

Product Similarity Declaration

Report No.: RSZ120814014-00B

To Whom It May Concern,

We, Shenzhen CE and IT Limited hereby declare that our Mobile phone, Model Number: 4C ,2D are electrically identical. They are just different in 2D does not support FM and have no camera, 4C support FM and have a camera due to marketing purposes.

Please contact me if you have any question.

Benjamin Dolgin-Gardner

Director

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

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