



# FCC PART 22H, PART 24E TEST REPORT

For

# **Star Computer Group**

2175 NORTHWEST 115<sup>Th</sup> AVE., DORAL, FL 33172, USA

FCC ID: Q34-E350

Product Type: Report Type: Original Report Smart Mobile Phone Brown Lu **Test Engineer:** Brown Lu Report Number: RSZ120906005-00C **Report Date:** 2012-09-21 Sula Huang Sola Huar **Reviewed By:** EMC Engineer **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 "\*

# TABLE OF CONTENTS

GENERAL INFORMATION	
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	
OBJECTIVE	
RELATED SUBMITTAL(S)/GRANT(S) TEST METHODOLOGY	
TEST FACILITY	
SYSTEM TEST CONFIGURATION	
DESCRIPTION OF TEST CONFIGURATION	6
EQUIPMENT MODIFICATIONS	6
BLOCK DIAGRAM OF TEST SETUP	6
SUMMARY OF TEST RESULTS	
FCC §1.1307 & §2.1093 - RF EXPOSURE	8
APPLICABLE STANDARD	8
TEST RESULT	8
FCC §2.1047 - MODULATION CHARACTERISTIC	9
FCC §2.1046, §22.913 (A) & §24.232 (C) - RF OUTPUT POWER	10
APPLICABLE STANDARD	10
TEST PROCEDURE	
TEST EQUIPMENT LIST AND DETAILS	
TEST DATA	11
FCC §2.1049, §22.917, §22.905 & §24.238 – EMISSION BANDWIDTH	13
APPLICABLE STANDARD	13
TEST PROCEDURE	
TEST EQUIPMENT LIST AND DETAILS	
TEST DATA	
FCC §2.1051, §22.917(A) & §24.238(A) - SPURIOUS EMISSIONS AT ANTENNA TERMINALS	
APPLICABLE STANDARD	
TEST PROCEDURE	
TEST EQUIPMENT LIST AND DETAILS	
FCC §2.1053, §22.917 & §24.238 - SPURIOUS RADIATED EMISSIONS	
APPLICABLE STANDARD	
TEST PROCEDURE TEST EQUIPMENT LIST AND DETAILS	
TEST DATA	22
FCC §22.917(A) & §24.238(A) - BAND EDGES	
APPLICABLE STANDARD	
TEST PROCEDURE	
TEST EQUIPMENT LIST AND DETAILS	23
TEST DATA	23
FCC §2.1055, §22.355 & §24.235 - FREQUENCY STABILITY	27
APPLICABLE STANDARD	

Bay Area Compliance Laboratories Corp. (Shenz
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Report No.: RSZ120906005-00C

FCC Part 22H/24E Page 3 of 29

#### **GENERAL INFORMATION**

#### **Product Description for Equipment under Test (EUT)**

The *Star Computer Group*'s product, model number: *E350 (FCC ID: Q34-E350)* or the "EUT" in this report was a *Smart mobile phone*, which was measured approximately: 11.3 cm (L) x 6.0 cm (W) x 1.0 cm (H), rated input voltage: DC 3.7 V Li-ion battery.

Report No.: RSZ120906005-00C

\* All measurement and test data in this report was gathered from production sample serial number: E350120800001 (Assigned by applicant). The EUT supplied by the applicant was received on 2012-09-06.

#### **Objective**

This test report is prepared on behalf of *Star Computer Group* 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 Part 15.247 DSS, FCC Part 15.247 DTS and Part 15B JBP submissions with FCC ID: Q34-E350.

#### **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.

FCC Part 22H/24E Page 4 of 29

#### **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.

Report No.: RSZ120906005-00C

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.

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).



The current scope of accreditations can be found at <a href="http://ts.nist.gov/Standards/scopes/2007070.htm">http://ts.nist.gov/Standards/scopes/2007070.htm</a>

FCC Part 22H/24E Page 5 of 29

# SYSTEM TEST CONFIGURATION

#### **Description of Test Configuration**

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

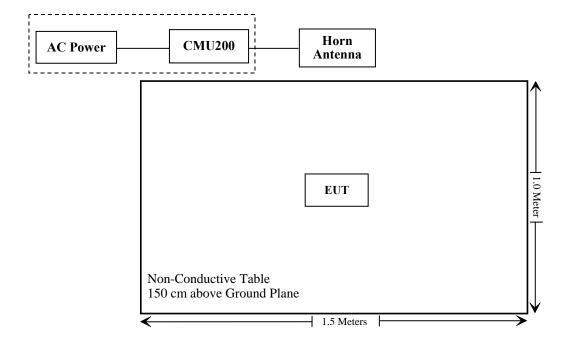
The GSM/PCS item test was performed with the EUT operating at normal mode.

The GPRS item test was performed with the EUT operating at engineering mode.

## **Equipment Modifications**

No modification was made to the EUT.

# **Block Diagram of Test Setup**



FCC Part 22H/24E Page 6 of 29

# **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

Report No.: RSZ120906005-00C

Note: \* Please refer to SAR report released by BACL, report number: RSZ120906005-20.

FCC Part 22H/24E Page 7 of 29

# FCC §1.1307 & §2.1093 - RF EXPOSURE

Report No.: RSZ120906005-00C

# **Applicable Standard**

FCC §1.1307 and §2.1093.

# **Test Result**

Compliance, please refer to the SAR report: RSZ120906005-20.

FCC Part 22H/24E Page 8 of 29

# FCC §2.1047 - MODULATION CHARACTERISTIC

According to FCC  $\S2.1047(d)$ , Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

Report No.: RSZ120906005-00C

FCC Part 22H/24E Page 9 of 29

# 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.

Report No.: RSZ120906005-00C

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
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2011-11-28	2012-11-27
HP	Synthesized Sweeper	8341B	2624A00116	2012-04-11	2013-04-10
COM POWER	Dipole Antenna	AD-100	041000	2011-09-25	2012-09-25
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

<sup>\*</sup> **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.

FCC Part 22H/24E Page 10 of 29

#### **Test Data**

#### **Environmental Conditions**

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

The testing was performed by Brown Lu on 2012-09-11.

#### **Conducted Power:**

# Cellular Band (Part 22H)

Report No.: RSZ120906005-00C

Mode	Channel	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	
GSM	128	824.2	32.59	38.45	
	190	836.6	32.15	38.45	
	251	848.8	32.12	38.45	

Mode	Frequency		Limit			
Mode	(MHz)	1 Slot	2 Slots	3 Slots	4 Slots	(dBm)
	824.2	32.14	31.63	29.95	28.92	38.45
GPRS	836.6	31.93	31.20	29.47	28.44	38.45
	848.8	31.86	31.10	29.42	28.35	38.45

# PCS Band (Part 24E)

Mode	Channel	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)
	512	1850.2	29.00	33
GSM	661	1880.0	28.99	33
	810	1909.8	29.13	33

Mode	Frequency		Limit			
Mode	(MHz)	1 Slot	2 Slots	3 Slots	4 Slots	(dBm)
	1850.2	28.96	28.16	26.56	25.73	38.45
GPRS	1880.0	28.96	28.15	26.57	25.75	38.45
	1909.8	29.11	28.46	26.84	26.06	38.45

FCC Part 22H/24E Page 11 of 29

#### **ERP & EIRP:**

# ERP for Cellular Band (Part 22H)

Report No.: RSZ120906005-00C

Receiver Turn		Rx Antenna		Substituted			Absolute	Part 22H	
Frequency (MHz)	Reading (dBµV/m)	eading Table		Polar (H/V)	S.G. Level (dBm)	Cable Loss (dB)	Antenna Gain (dB)	Level (dBm)	Limit (dBm)
	Low Channel								
824.2	93.44	77	1.6	Н	25.6	0.69	0.00	24.91	38.45
824.2	100.02	35	1.8	V	32.7	0.69	0.00	32.01	38.45

# EIRP for PCS Band (Part 24E)

Receiver Turn		Rx Antenna		Substituted			Absolute	Part 24E	
Frequency (MHz)	Reading (dBµV/m)	Table Angle Degree	Height (m)	Polar (H/V)	S.G. Level (dBm)	Cable Loss (dB)	Antenna Gain (dB)	Level (dBm)	Limit (dBm)
	High Channel								
1909.8	89.55	168	1.7	Н	18.7	1.03	9.40	27.07	33.0
1909.8	91.36	113	1.8	V	20.5	1.03	9.40	28.87	33.0

FCC Part 22H/24E Page 12 of 29

# FCC §2.1049, §22.917, §22.905 & §24.238 – EMISSION BANDWIDTH

Report No.: RSZ120906005-00C

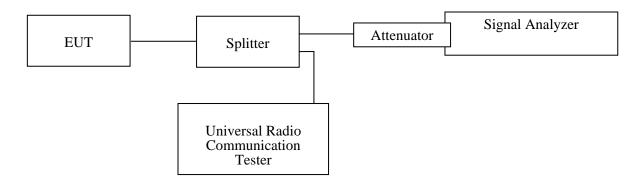
## **Applicable Standard**

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 5 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	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2012-04-11	2013-04-10

<sup>\*</sup> **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 Brown Lu on 2012-09-10.

FCC Part 22H/24E Page 13 of 29

Report No.: RSZ120906005-00C

EUT operation mode: Transmitting

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

#### **GMSK Modulation:**

# Cellular Band (Part 22H)

Channel	Frequency (MHz)	99% Emission Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
190	836.6	244.5	318.6

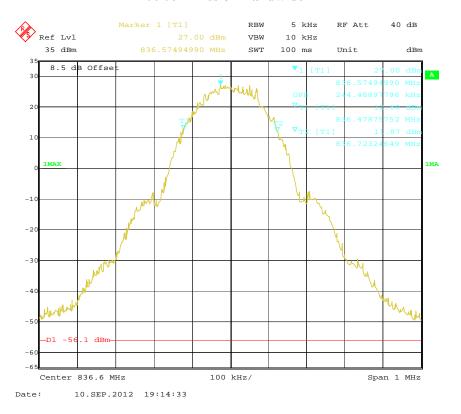
## PCS Band (Part 24E)

Channel	Frequency (MHz)	99% Emission Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
661	1880.0	244.5	318.6

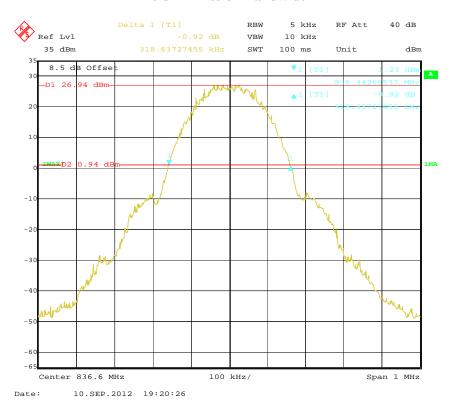
FCC Part 22H/24E Page 14 of 29

### Cellular Band (Part 22H)

#### 99% Emission Bandwidth



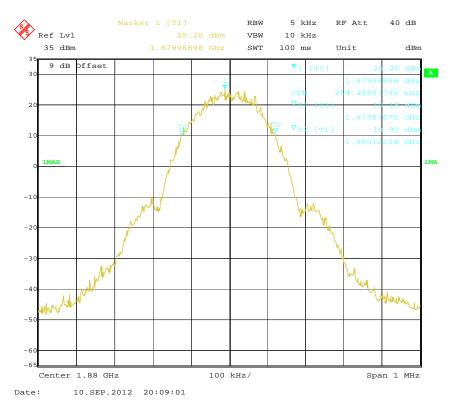
#### 26 dB Emission Bandwidth



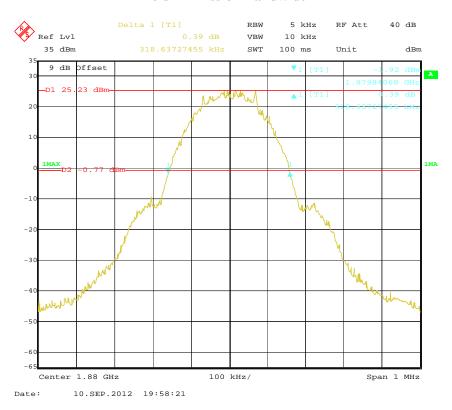
FCC Part 22H/24E Page 15 of 29

## PCS Band (Part 24E)

#### 99% Emission Bandwidth



#### 26 dB Emission Bandwidth



FCC Part 22H/24E Page 16 of 29

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

Report No.: RSZ120906005-00C

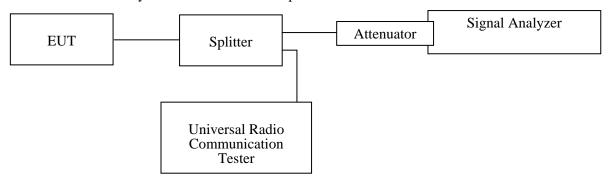
#### **Applicable Standard**

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 100 kHz/1MHz. Sufficient scans were taken to show any out of band emissions up to 10<sup>th</sup> 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
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23
Wainwright Germany	Band Reject Filter	WRCG1850/1910- 1835/1925-40/8SS	22	-	-
Wainwright Germany	Band Reject Filter	WRCG823/850- 813/860-40/8SS	7	-	-

<sup>\*</sup> 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

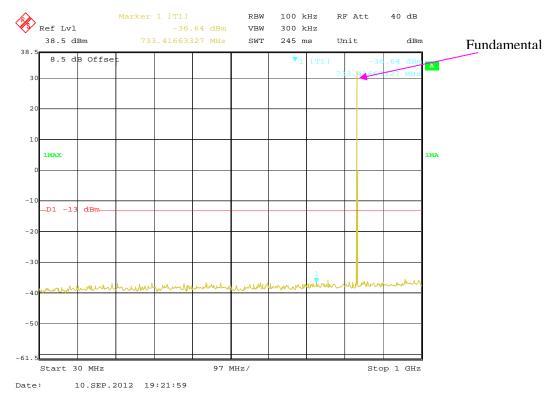
The testing was performed by Brown Lu on 2012-09-10.

Please refer to the following plots.

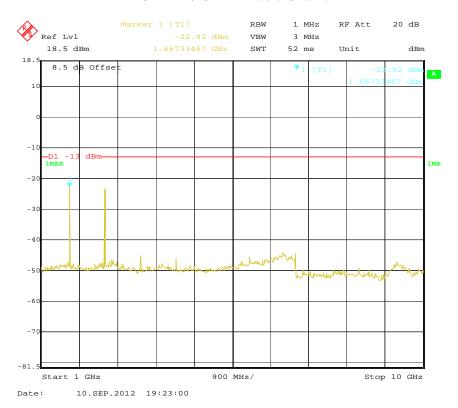
FCC Part 22H/24E Page 17 of 29

#### **Cellular Band (Part 22H)**

#### 30 MHz - 1 GHz - Middle Channel



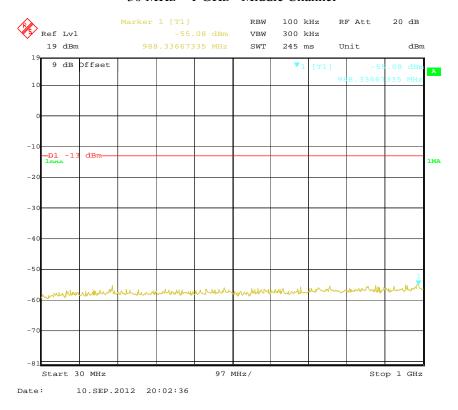
#### 1 GHz - 10 GHz - Middle Channel



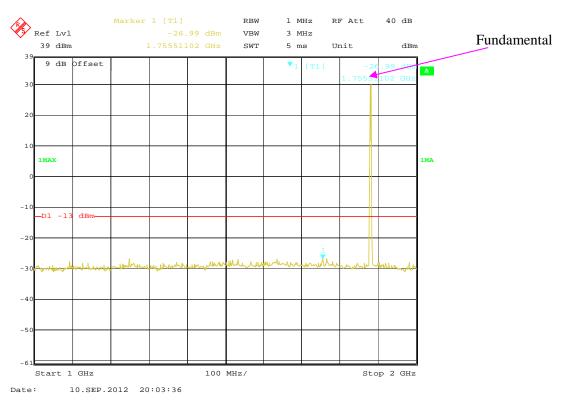
FCC Part 22H/24E Page 18 of 29

## PCS Band (Part 24E)

30 MHz - 1 GHz - Middle Channel

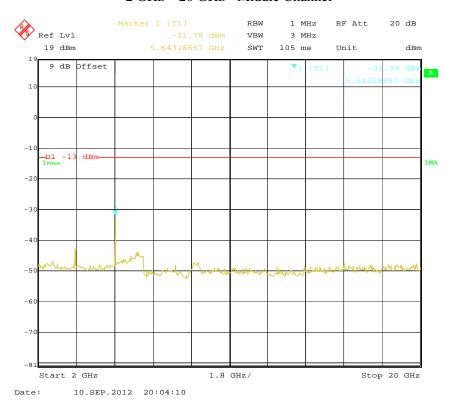


1 GHz - 2 GHz - Middle Channel



FCC Part 22H/24E Page 19 of 29

#### 2 GHz - 20 GHz - Middle Channel



FCC Part 22H/24E Page 20 of 29

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

Report No.: RSZ120906005-00C

#### **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
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23
SUPER ULTRA	Amplifier	ZVA-213+	N/A	2011-11-24	2012-11-23
НР	Amplifier	HP8447D	2944A09795	2011-11-24	2012-11-23
НР	Synthesized Sweeper	8341B	2624A00116	2012-04-11	2013-04-10
COM POWER	Dipole Antenna	AD-100	041000	2011-09-25	2012-09-25
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	2012-10-13
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2012-04-11	2013-04-10

<sup>\*</sup> **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.

FCC Part 22H/24E Page 21 of 29

#### **Test Data**

#### **Environmental Conditions**

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

The testing was performed by Brown Lu on 2012-09-10.

EUT operation mode: Transmitting (worst case)

#### **30 MHz ~ 10 GHz:**

#### Cellular Band (Part 22H)

Report No.: RSZ120906005-00C

	Receiver	Turntable	Rx An	tenna	\$	Substitute	ed	Absolute		
Frequency (MHz)	Reading (dBµV/m)	Angle	Height (m)	Polar (H/V)	SG Level (dBm)	Cable Loss (dB)	Antenna Gain (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
	Low channel									
1648.4	50.82	152	1.5	V	-49.6	0.97	9.40	-41.17	-13	28.17
3296.8	43.24	28	1.7	Н	-51.2	2.08	10.80	-42.48	-13	29.48
1648.4	49.51	78	1.6	Н	-53.5	0.97	9.40	-45.07	-13	32.07
3296.8	39.22	35	1.6	V	-54.3	2.08	10.80	-45.58	-13	32.58
2472.6	36.27	117	1.9	V	-60.1	1.46	10.70	-50.86	-13	37.86
2472.6	38.68	35	1.7	Н	-62.0	1.46	10.70	-52.76	-13	39.76

#### **30 MHz ~ 20 GHz:**

#### PCS Band (Part 24E)

	Receiver	Turntable	Rx An	tenna	Substituted			Absolute		
Frequency (MHz)	Reading (dBµV/m)	Angle	Height (m)	Polar (H/V)	SG Level (dBm)	Cable Loss (dB)	Antenna Gain (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
				Hig	gh channe	l				
5729.4	50.74	168	1.5	V	-40.4	3.94	11.70	-32.64	-13	19.64
5729.4	48.61	224	1.9	Н	-43.8	3.94	11.70	-36.04	-13	23.04
7639.2	36.43	79	1.7	Н	-51.8	3.07	12.00	-42.87	-13	29.87
7639.2	35.54	35	1.6	V	-53.9	3.07	12.00	-44.97	-13	31.97
3819.6	41.97	77	1.6	Н	-55.0	2.96	10.40	-47.56	-13	34.56
3819.6	39.92	135	1.8	V	-56.2	2.96	10.40	-48.76	-13	35.76

Note:

Absolute Level = SG Level - Cable loss + Antenna Gain

Margin = Limit- Absolute Level

FCC Part 22H/24E Page 22 of 29

# 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.

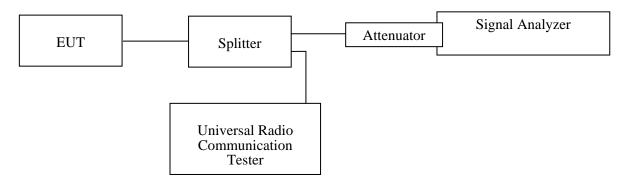
Report No.: RSZ120906005-00C

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 5 kHz.



#### **Test Equipment List and Details**

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

<sup>\*</sup> 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 Brown Lu on 2012-09-10.

FCC Part 22H/24E Page 23 of 29

EUT operation mode: Transmitting

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

# Cellular Band (Part 22H)

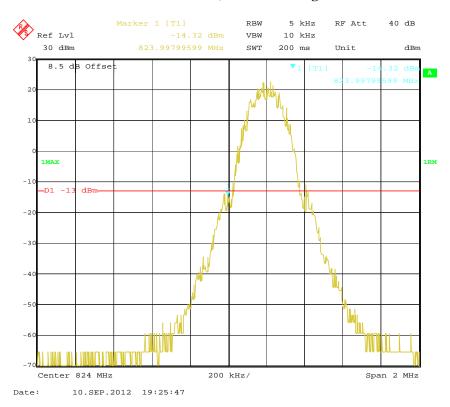
Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.998	-14.32	-13
849.022	-13.44	-13

# PCS Band (Part 24E)

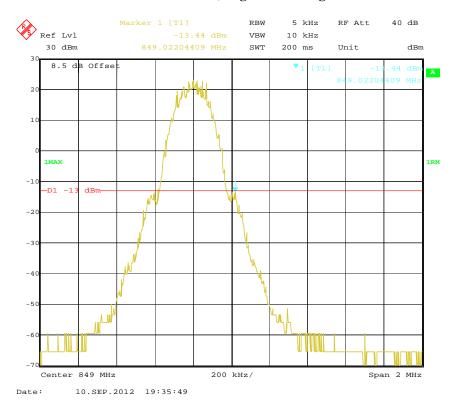
Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.998	-15.25	-13
1910.018	-15.04	-13

FCC Part 22H/24E Page 24 of 29

#### Cellular Band, Left Band Edge

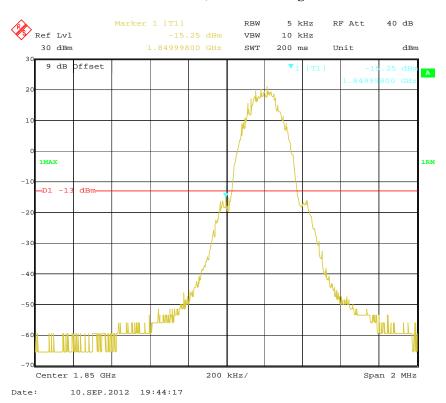


#### Cellular Band, Right Band Edge

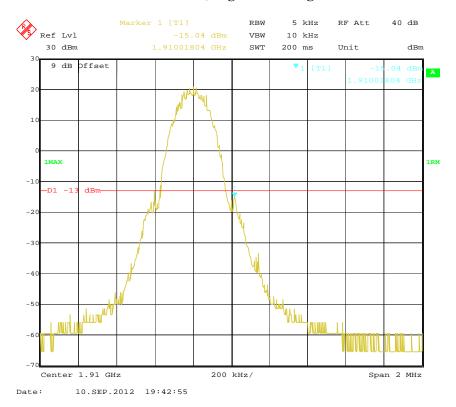


FCC Part 22H/24E Page 25 of 29

#### PCS Band, Left Band Edge



#### PCS Band, Right Band Edge



FCC Part 22H/24E Page 26 of 29

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

#### **Applicable Standard**

FCC § 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 f	or	<b>Transmitters</b>	in	the	Public	Mobile	Services
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Report No.: RSZ120906005-00C

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

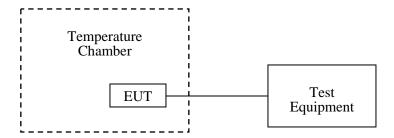
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

#### **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.



FCC Part 22H/24E Page 27 of 29

# **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.: RSZ120906005-00C

#### **Test Data**

#### **Environmental Conditions**

Temperature:	20 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

The testing was performed by Brown Lu on 2012-09-10.

EUT operation mode: Transmitting

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

#### Cellular Band (Part 22H)

Middle Channel, f <sub>0</sub> = 836.6 MHz					
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-30		-20	-0.023906	2.5	
-20		-19	-0.022711	2.5	
-10		-15	-0.017930	2.5	
0	3.7	-16	-0.019125	2.5	
10		-14	-0.016734	2.5	
20		-13	-0.015539	2.5	
30		-18	-0.021516	2.5	
40		-15	-0.017930	2.5	
50		-22	-0.026297	2.5	
25	V <sub>max.</sub> =4.2	-15	-0.017930	2.5	
25	V <sub>min.</sub> = 3.5	-11	-0.013148	2.5	

FCC Part 22H/24E Page 28 of 29

<sup>\*</sup> **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.

Report No.: RSZ120906005-00C

Middle Channel, f <sub>o</sub> =1880.0 MHz					
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-30		-44	-0.023404	Pass	
-20		-42	-0.022340	Pass	
-10		-36	-0.019149	Pass	
0		-38	-0.020213	Pass	
10	3.7	-37	-0.019681	Pass	
20		-35	-0.018617	Pass	
30		-39	-0.020745	Pass	
40		-40	-0.021277	Pass	
50		-45	-0.023936	Pass	
25	V <sub>max.</sub> =4.2	-39	-0.020745	Pass	
25	V <sub>min.</sub> = 3.5	-38	-0.020213	Pass	

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

FCC Part 22H/24E Page 29 of 29