

FCC PART 22H, PART 24E


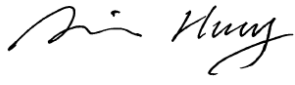
TEST REPORT

For

Golden Port Technology Limited

4705, Central Plaza, 18 Harbour Road, Wanchai, Hong Kong

FCC ID: XOYPOSITRON

Report Type: Original Report	Product Type: GSM/GPRS POS Terminal
Test Engineer: <u>Sula Huang</u> 	
Report Number: <u>RSZ09080709-00</u>	
Report Date: <u>2012-04-01</u>	
Reviewed By: <u>Alvin Huang</u>  EMC Engineer	
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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 contains 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 *Golden Port Technology Limited*'s product, model number: *POSITRON (FCC ID: XOYPOSITRON)* or the "EUT" in this report was a *POS*, which was measured approximately: 220 mm (L) x 90 mm (W) x 65 mm (H), rated input voltage: DC 7.2V Li-ion battery or DC 12.0V by adapter.

Adapter (Switching Power Supply) information:

Model: GPSM60-120400-E11

Input: AC 100-240V~50/60Hz, 2A

Output: DC 12V, 4A

Frequency Range:

Cellular Band: 824-849 MHz (Tx), 869-894 MHz (Rx)

PCS Band: 1850-1910 MHz (Tx), 1930-1990 MHz (Rx)

Modulation Mode: GMSK

Transmitter Output Power:

Cellular Band: 33.04 dBm (Conducted output power)

PCS Band: 29.69 dBm (Conducted output power)

** All measurement and test data in this report was gathered from production sample serial number: 0908010 (Assigned by BACL, Shenzhen).*

Objective

This type approval report is prepared on behalf of *Golden Port Technology 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, band edge and radiated margin.

Related Submittal(s)/Grant(s)

Sierra Wireless GSM/GPRS Module, FCC ID: N7NWISMO228

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-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.

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 <http://ts.nist.gov/Standards/scopes/2007070.htm>

SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

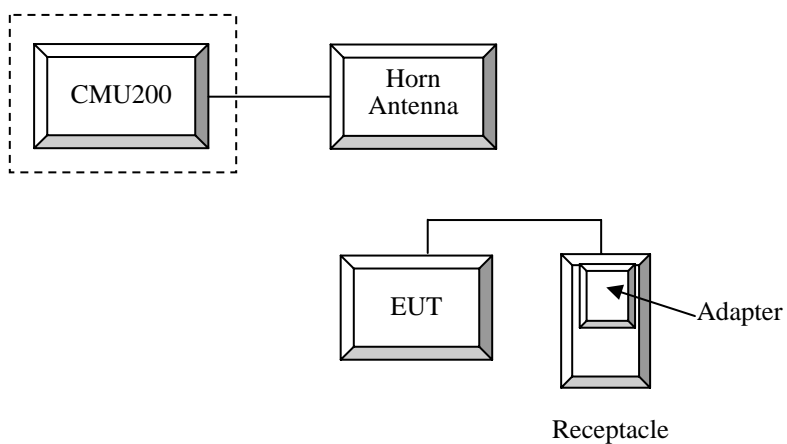
The GSM/PCS item test was performed with the EUT operating at normal mode.

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

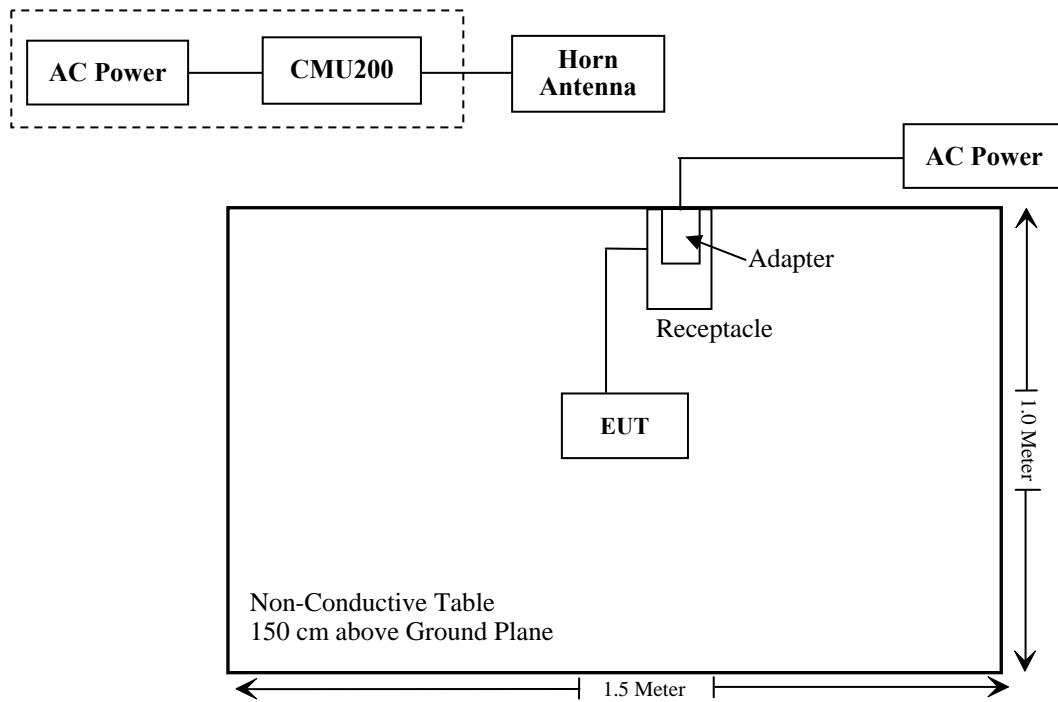
Equipment Modifications

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)	Compliance*
§2.1046; § 22.913 (a); § 24.232 (c)	RF Output Power	Compliance
§ 2.1047	Modulation Characteristics	N/A
§ 2.1049; § 22.905 § 22.917; § 24.238	26 dB 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**

Note: * Please refer to SAR report released by BACL, report number: RSZ09080709-20

** Please refer to FCC ID: N7NWISMO228 which was granted on Oct. 27, 2009.

FCC §1.1307 & §2.1093 - RF EXPOSURE

Applicable Standard

FCC§1.1307 and §2.1093.

Test Result

Compliance, please refer to the SAR report: RSZ09080709-20

FCC §2.1047 - MODULATION CHARACTERISTIC

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

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

Applicable Standard

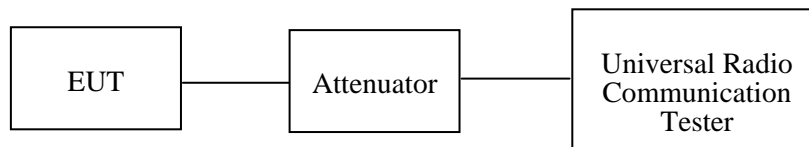
According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

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	A052604	2011-05-05	2012-05-04
Rohde & Schwarz	Signal Analyzer	FSIQ 26	609358	2011-07-08	2012-07-07
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2011-07-05	2012-07-04
HP	Signal Generator	HP8657A	2849U00982	2011-10-28	2012-10-27
HP	Synthesized Sweeper	8341B	2624A00116	2011-11-07	2012-11-06
COM POWER	Dipole Antenna	AD-100	041000	2011-09-25	2012-09-25
A.H. System	Horn Antenna	SAS-200/571	135	2011-05-17	2012-05-17
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2011-10-28	2012-10-27

*** 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 Sula Huang on 2012-01-20.

Conducted Output Power:

Cellular Band (Part 22H)

Mode	Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)
GSM	128	824.2	33.04	38.45
	190	836.6	32.92	38.45
	251	848.8	32.78	38.45

Mode	Channel	Frequency (MHz)	Output Power (dBm)				Limit (dBm)
			1 slot	2 slots	3 slots	4 slots	
GPRS (Class 10)	128	824.2	33.03	33.02	/	/	38.45
	190	836.6	32.90	32.88	/	/	38.45
	251	848.8	32.78	32.78	/	/	38.45

PCS Band (Part 24E)

Mode	Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)
GSM	512	1850.2	29.58	33
	661	1880.0	29.69	33
	810	1909.8	29.35	33

Mode	Channel	Frequency (MHz)	Output Power (dBm)				Limit (dBm)
			1 slot	2 slots	3 slots	4 slots	
GPRS (Class 10)	512	1850.2	29.53	29.52	/	/	33
	661	1880.0	29.55	29.53	/	/	33
	810	1909.8	29.32	29.31	/	/	33

ERP & EIRP:**ERP for Cellular Band (Part 22H)**

Indicated		Table Angle Degree	Test Antenna		Substituted			Antenna Gain Correction (dBd)	Cable Loss (dB)	Absolute Level (dBm)	Part 22H Limit (dBm)
Frequency (MHz)	S.A. Reading (dBμV)		Height (m)	Polar (H/V)	Frequency (MHz)	S.G. Level (dBm)	Ant. Polar (H/V)				
Low Channel											
824.2	91.42	253	1.3	H	824.2	28.4	H	0	0.9	27.5	38.45
824.2	96.81	126	1.9	V	824.2	33.8	V	0	0.9	32.9	38.45

EIRP for PCS Band (Part 24E)

Indicated		Table Angle Degree	Test Antenna		Substituted			Antenna Gain Correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Part 24E Limit (dBm)
Frequency (MHz)	S.A. Reading (dBμV)		Height (m)	Polar (H/V)	Frequency (MHz)	S.G. Level (dBm)	Ant. Polar (H/V)				
Middle Channel											
1880	90.21	0	1.7	H	1880	20.2	H	6.2	1.10	25.3	33
1880	94.60	319	1.4	V	1880	24.6	V	6.2	1.10	29.7	33

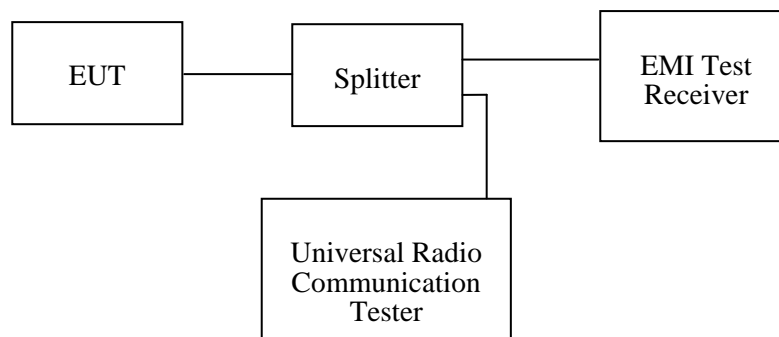
FCC §2.1049, §22.917, §22.905 & §24.238 - OCCUPIED BANDWIDTH**Applicable Standard**

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.

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ 26	609358	2011-07-08	2012-07-07
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2011-10-28	2012-10-27

* **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 Sula Huang on 2012-03-31.

Test Mode: transmitting

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

GMSK Modulation:

Cellular Band (Part 22H)

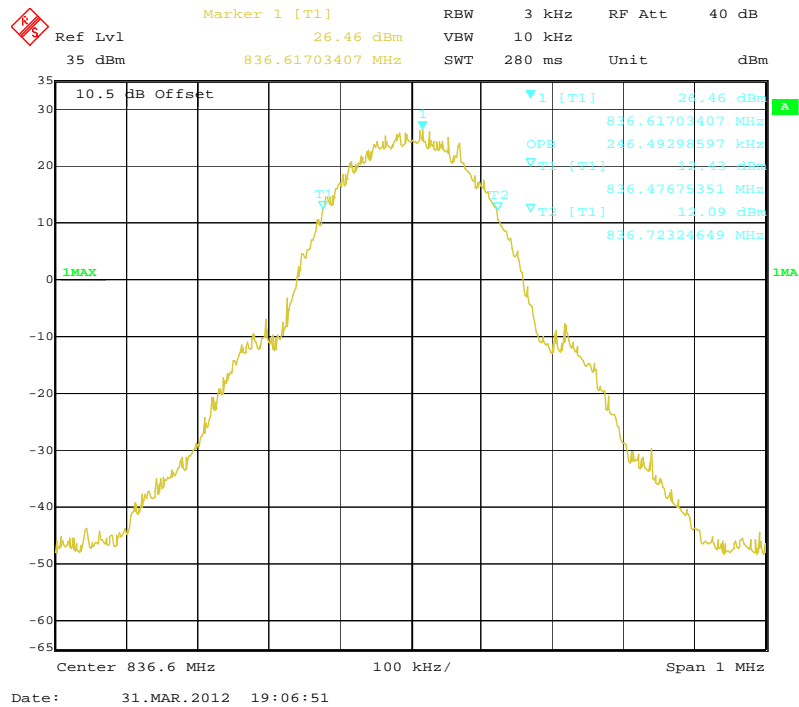
Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Occupied Bandwidth (kHz)
190	836.6	246	319

PCS Band (Part 24E)

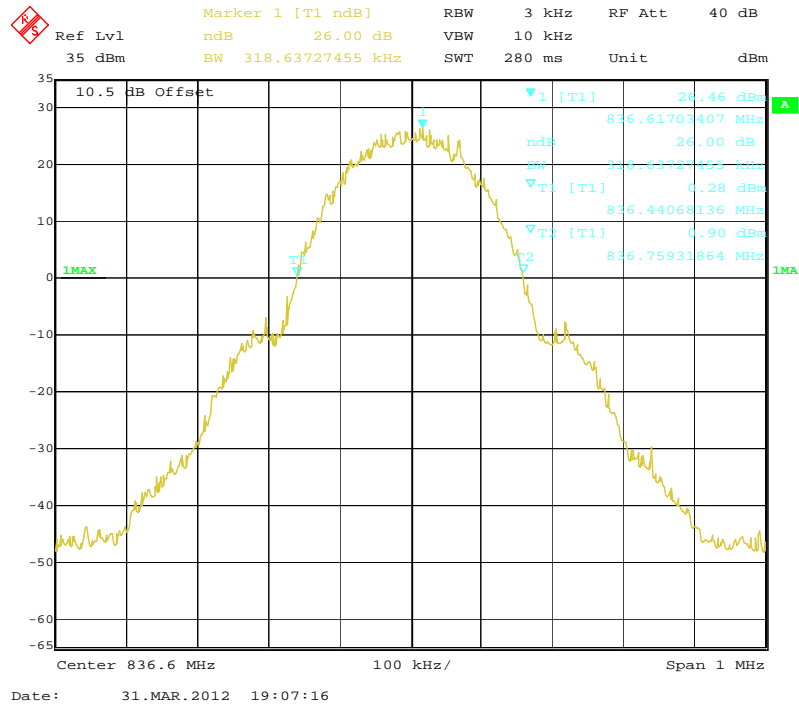
Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Occupied Bandwidth (kHz)
661	1880.0	246	311

Cellular Band (Part 22H)

99% Occupied Bandwidth

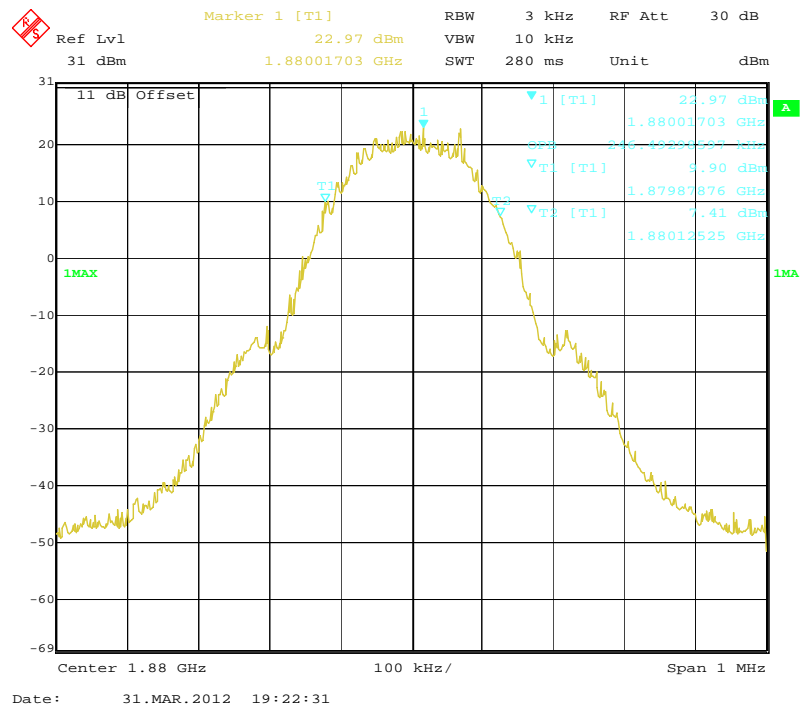


26 dB Occupied Bandwidth

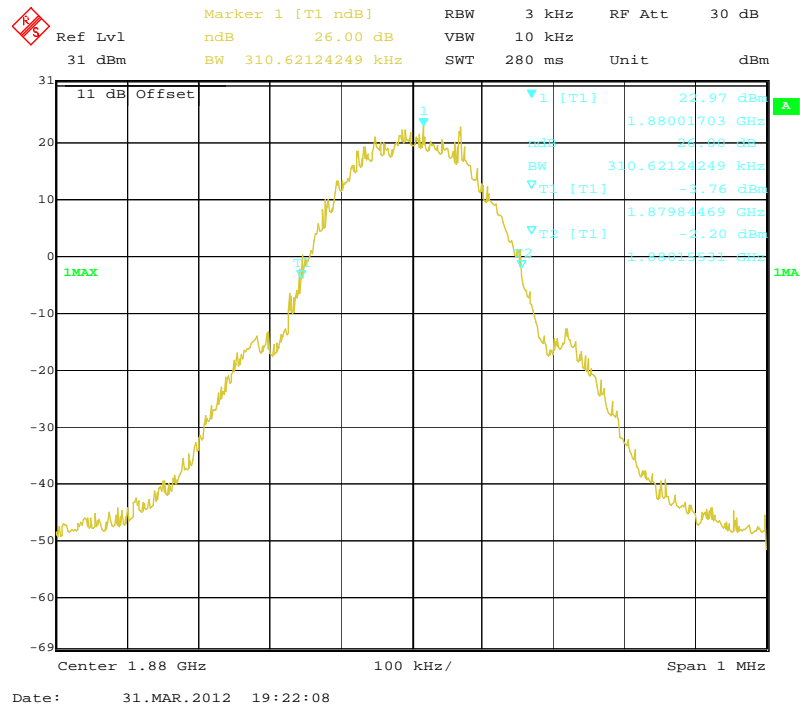


PCS Band (Part 24E)

99% Occupied Bandwidth



26 dB Occupied Bandwidth



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

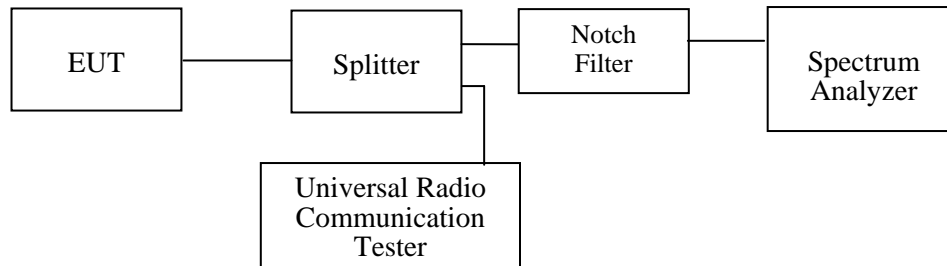
Applicable Standard

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. 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	2011-10-28	2012-10-27
Wainwright Germany	Band Reject Filter	WRCG1850/1910-1835/1925-40/8SS	22	2012-02-28	2013-02-28
Wainwright Germany	Band Reject Filter	WRCG823/850-813/860-40/8SS	7	2012-02-28	2013-02-28
Rohde & Schwarz	Signal Analyzer	FSIQ 26	609358	2011-07-08	2012-07-07

* **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

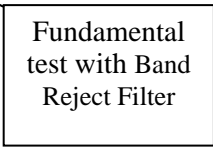
Environmental Conditions

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

The testing was performed by Sula Huang on 2012-03-31.

Please refer to the following plots.

30 MHz – 1 GHz - Middle Channel



Marker 1 [T1]
 -22.46 dBm
 1.66733467 GHz

Ref Lvl 10 dBm
 RBW 1 MHz
 VBW 3 MHz
 SWT 52 ms
 RF Att 20 dB
 Unit dBm

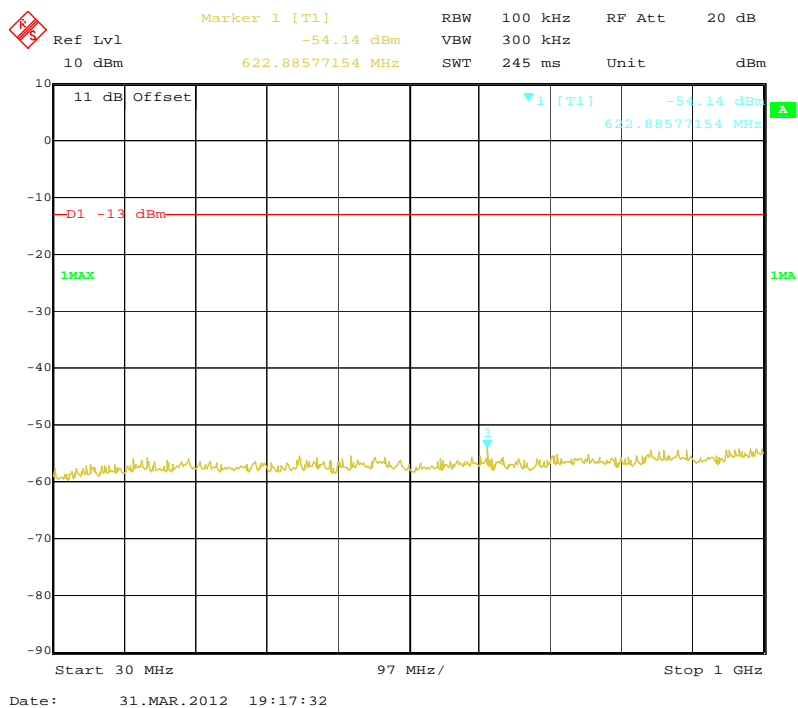
10.5 dB Offset
 D1 -13 dBm
 1MAX
 1 [T1]
 -22.46 dBm
 1.66733467 GHz

Start 1 GHz
 900 MHz/
 Stop 10 GHz

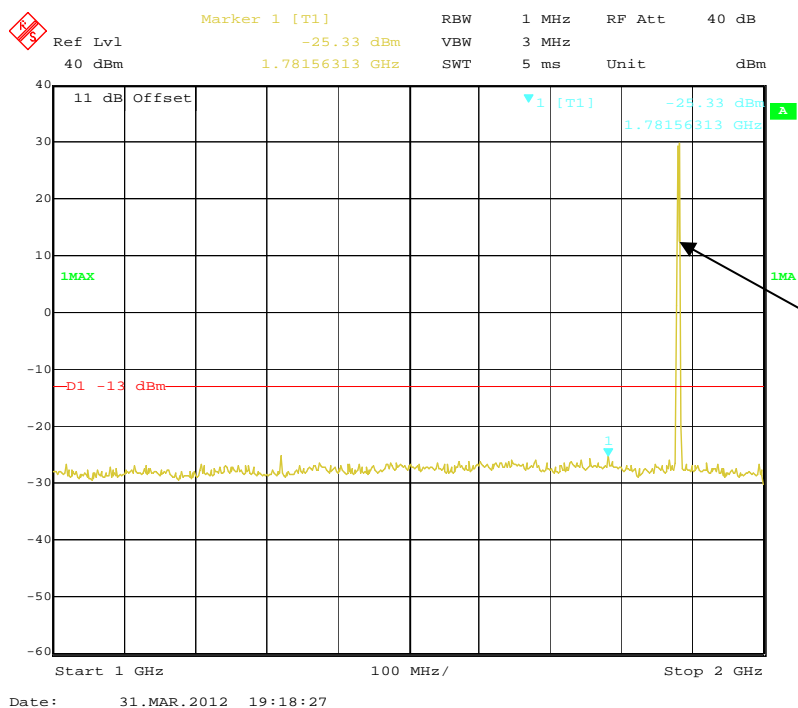
Date: 31.MAR.2012 19:15:14

PCS Band (Part 24E)

30 MHz – 1 GHz - Middle Channel



1 GHz – 2 GHz - Middle Channel



Fundamental
test with Band
Reject Filter

Marker 1 [T1]
 Ref Lvl -37.20 dBm
 10 dBm 5.64328657 GHz
 RBW 1 MHz
 VBW 3 MHz
 RF Att 20 dB
 Unit dBm
 SWT 105 ms

11 dB Offset
 1 [T1] -37.20 dBm
 5.64328657 GHz

-D1 -13 dBm
 1MAX

Start 2 GHz
 1.8 GHz/
 Stop 20 GHz

Date: 31.MAR.2012 19:20:02

FCC §2.1053, §22.917 & §24.238 - SPURIOUS RADIATED EMISSIONS**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 = $10 \lg(\text{TXpwr in Watts}/0.001)$ – the absolute level

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Horn Antenna	DRH-118	A052604	2011-05-05	2012-05-04
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2011-07-05	2012-07-04
Rohde & Schwarz	Signal Analyzer	FSIQ 26	609358	2011-07-08	2012-07-07
Mini-Circuits	Amplifier	ZVA-213+	T-E27H	2011-03-08	2012-03-07
HP	Signal Generator	HP8657A	2849U00982	2011-10-28	2012-10-27
HP	Amplifier	HP8447D	2944A09795	2011-08-02	2012-08-02
HP	Synthesized Sweeper	8341B	2624A00116	2011-11-07	2012-11-06
COM POWER	Dipole Antenna	AD-100	041000	2011-09-25	2012-09-25
A.H. System	Horn Antenna	SAS-200/571	135	2011-05-17	2012-05-17
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2011-10-28	2012-10-27

* **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 Sula Huang on 2012-01-20

Test mode: Transmitting (worst case)

Cellular Band (Part 22H)

30 MHz ~10 GHz:

Indicated		Table Angle Degree	Test Antenna		Substituted				Absolute Level (dBm)	Limit (dBm)	Margin (dB)
Frequency (MHz)	S.A. Reading (dBμV)		Height (m)	Polar (H/V)	Frequency (MHz)	Level (dBm)	Ant. Gain (dB)	Cable Loss (dB)			
Middle Channel											
1697.6	53.26	180	1.4	V	1697.6	-47.1	6.1	0.98	-41.98	-13	28.98
1697.6	51.18	239	1.6	H	1697.6	-52.3	6.1	0.98	-47.18	-13	34.18
2546.4	45.39	0	1.7	V	2546.4	-54.6	7.3	1.20	-48.50	-13	35.50
2546.4	43.14	162	1.3	H	2546.4	-58.4	7.3	1.20	-52.30	-13	39.30
434.2	39.57	310	1.5	H	434.2	-56.9	0	0.45	-57.35	-13	44.35
434.2	37.16	23	1.9	V	434.2	-59.1	0	0.45	-59.55	-13	46.55

PCS Band (Part 24E)

30 MHz ~20 GHz:

Indicated		Table Angle Degree	Test Antenna		Substituted				Absolute Level (dBm)	Limit (dBm)	Margin (dB)
Frequency (MHz)	S.A. Reading (dBμV)		Height (m)	Polar (H/V)	Frequency (MHz)	Level (dBm)	Ant. Gain (dB)	Cable Loss (dB)			
Middle Channel											
3739.9	47.48	350	1.6	V	3739.9	-46.7	6.9	1.48	-41.28	-13	28.28
3739.9	43.59	152	1.8	H	3739.9	-51.2	6.9	1.48	-45.78	-13	32.78
434.2	41.53	0	1.4	V	434.2	-54.9	0	0.45	-55.35	-13	42.35
434.2	38.49	360	1.6	H	434.2	-57.8	0	0.45	-58.25	-13	45.25

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

Applicable Standard

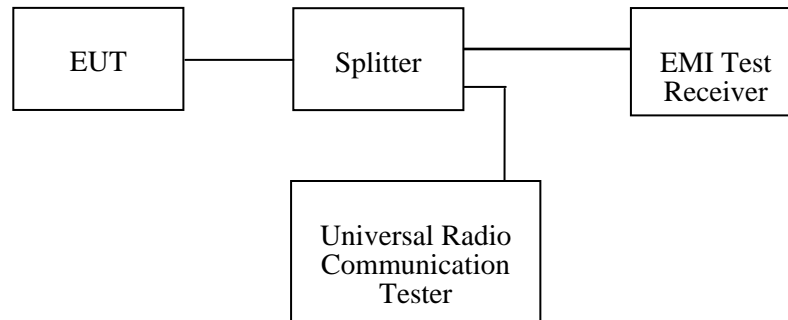
According to FCC § 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to FCC §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	Signal Analyzer	FSIQ 26	609358	2011-07-08	2012-07-07
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	109038	2011-10-28	2012-10-27

* **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 Sula Huang on 2012-03-31.

Test Mode: transmitting

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

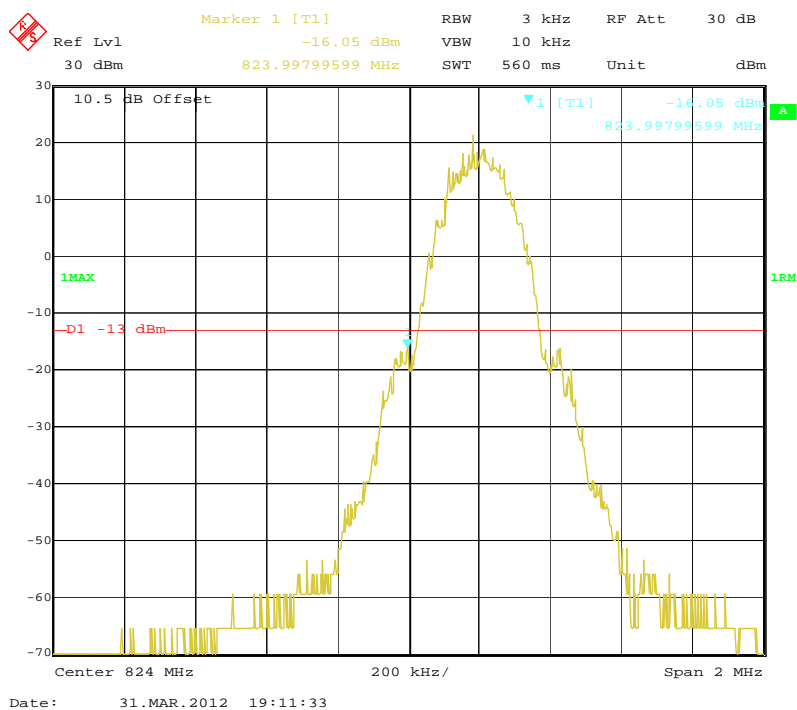
Cellular Band (Part 22H)

Frequency (MHz)	Band Edge Emission (dBm)	Limit (dBm)
823.998	-16.05	-13
849.026	-15.33	-13

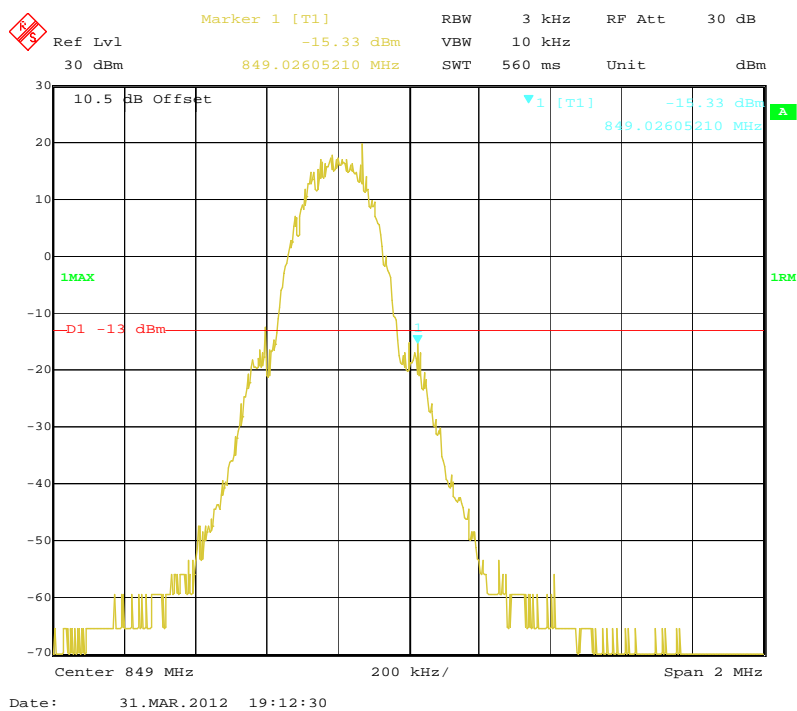
PCS Band (Part 24E)

Frequency (MHz)	Band Edge Emission (dBm)	Limit (dBm)
1849.998	-18.10	-13
1910.022	-20.25	-13

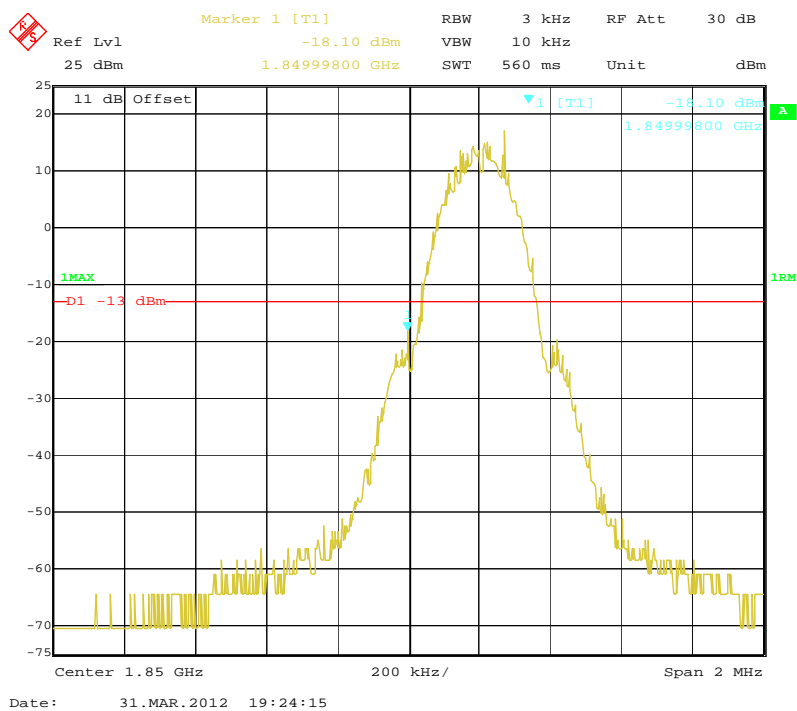
Cellular Band, Left Band Edge



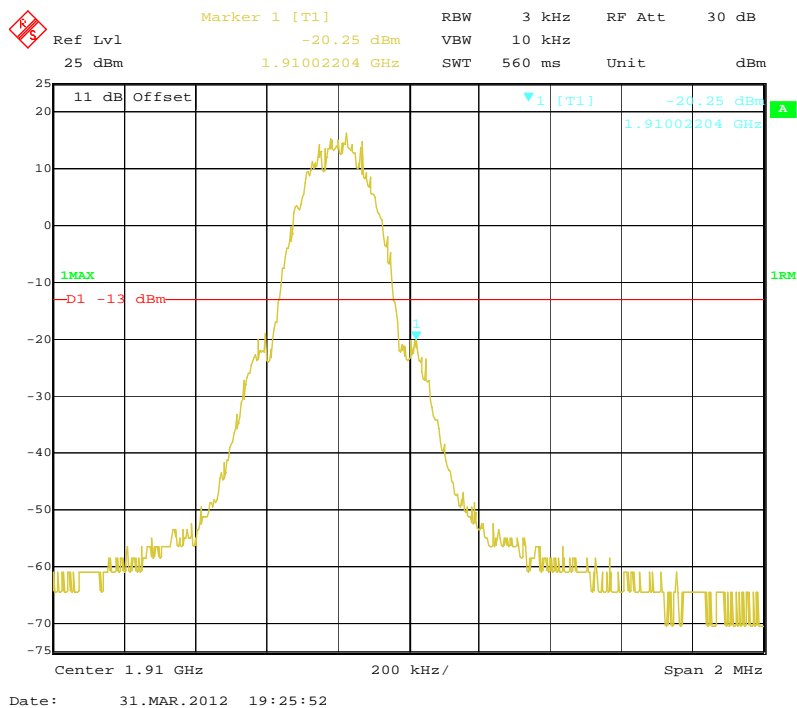
Cellular Band, Right Band Edge



PCS Band, Left Band Edge



PCS Band, Right Band Edge



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 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 Data

Please refer to FCC ID: N7NWISMO228 which was granted on Oct. 27, 2009.

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