

FCC PART 22H, PART 24E

TEST REPORT

For

MAXCOM MOBILE

Room 2202 International Science and Technology Building, Futian District, 3007 Shennan Road,
Shenzhen, Guangdong, China

FCC ID: FWOQ902M94

Report Type: Original Report	Product Type: GSM Mobile Phone
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Report Number: RSZ120418001-00C	
Report Date: 2012-05-22	
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* This report contains data that are not covered by the NVLAP accreditation and are marked with an asterisk "★" (Rev.2)

TABLE OF CONTENTS

GENERAL INFORMATION.....	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
OBJECTIVE	4
RELATED SUBMITTAL(S)/GRANT(S).....	4
TEST METHODOLOGY	4
TEST FACILITY	5
SYSTEM TEST CONFIGURATION.....	6
DESCRIPTION OF TEST CONFIGURATION	6
EQUIPMENT MODIFICATIONS	6
BLOCK DIAGRAM OF TEST SETUP	6
SUMMARY OF TEST RESULTS	7
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	10
TEST EQUIPMENT LIST AND DETAILS.....	10
TEST DATA	11
FCC §2.1049, §22.917, §22.905 & §24.238 - OCCUPIED BANDWIDTH	13
APPLICABLE STANDARD	13
TEST PROCEDURE	13
TEST EQUIPMENT LIST AND DETAILS.....	13
TEST DATA	13
FCC §2.1051, §22.917(A) & §24.238(A) - SPURIOUS EMISSIONS AT ANTENNA TERMINALS	17
APPLICABLE STANDARD	17
TEST PROCEDURE	17
TEST EQUIPMENT LIST AND DETAILS.....	17
TEST DATA	17
FCC §2.1053, §22.917 & §24.238 - SPURIOUS RADIATED EMISSIONS	21
APPLICABLE STANDARD	21
TEST PROCEDURE	21
TEST EQUIPMENT LIST AND DETAILS.....	21
TEST DATA	22
FCC §22.917(A) & §24.238(A) - BAND EDGES.....	23
APPLICABLE STANDARD	23
TEST PROCEDURE	23
TEST EQUIPMENT LIST AND DETAILS.....	23
TEST DATA	23
FCC §2.1055, §22.355 & §24.235 - FREQUENCY STABILITY.....	27
APPLICABLE STANDARD	27

TEST PROCEDURE27

TEST EQUIPMENT LIST AND DETAILS.....28

TEST DATA28

PRODUCT SIMILARITY DECLARATION LETTER.....30

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *MAXCOM MOBILE*'s product, model number: *Like-m94* (FCC ID: *FWOQ902M94*) or the "EUT" in this report was a *GSM Mobile Phone*, which was measured approximately: 9.8 cm (L) x 5.2 cm (W) x 1.2 cm (H), rated input voltage: DC 3.7 V Li-ion battery.

Frequency Range:

Cellular Band: 824-849 MHz (Tx), 869-894 MHz (Rx)
PCS Band: 1850-1910 MHz (Tx), 1930-1990 MHz (Rx)
Bluetooth: 2402-2480 MHz (Tx/ Rx)

Modulation Mode: GMSK (Cellular/PCS); GFSK, $\pi/4$ -DQPSK, 8DPSK (Bluetooth)

Transmitter Output Power:

Cellular Band: 31.61 dBm (Conducted Power)
PCS Band: 30.20 dBm (Conducted Power)
Bluetooth: 5.58 dBm (Conducted power)

Note: The product, model Mini-Q902 and Like-Q90 are electrically identical with the model Like-m94, they have the same PCB layout and schematic, the difference between them is just the model number due to marketing purposes, we select model Like-m94 for fully testing which was explained in the attached product similarity declaration letter.

** All measurement and test data in this report was gathered from production sample serial number: 1204039 (Assigned by BACL, Shenzhen). The EUT was received on 2012-04-16.*

Objective

This test report is prepared on behalf of *MAXCOM MOBILE* 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, spurious emission at antenna terminal, spurious radiated emission, frequency stability and band edge.

Related Submittal(s)/Grant(s)

FCC Part 15.247 DSS and Part 15B JBP submissions with FCC ID: FWOQ902M94

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.

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.

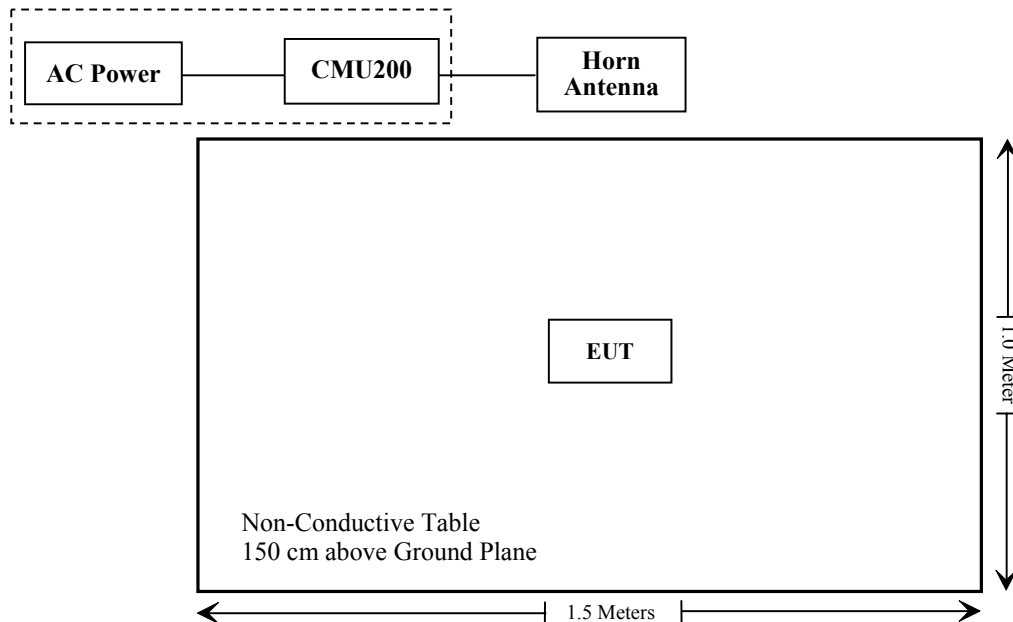
The GSM/PCS item test was performed with the EUT operating at normal mode.

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

Equipment Modifications

No modification was made to the EUT.

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	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

Note: * Please refer to SAR report released by BACL, report number: R1205078-SAR.

FCC §1.1307 & §2.1093 - RF EXPOSURE

Applicable Standard

FCC§1.1307 and §2.1093.

Test Result

Compliance, please refer to the SAR report: R1205078-SAR.

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

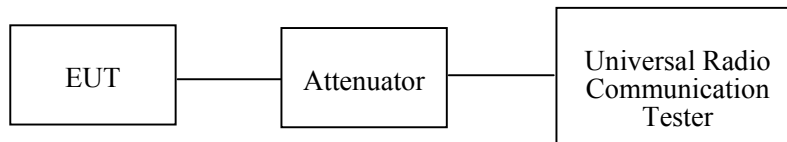
According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

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-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	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 Jimmy Xiao on 2012-04-25.

Conducted Power**Cellular Band (Part 22H)**

Mode	Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)
GSM	128	824.2	31.44	38.45
	190	836.6	31.47	38.45
	251	848.8	31.51	38.45

Mode	Channel	Frequency (MHz)	Output Power (dBm)				Limit (dBm)
			1 slot	2 slots	3 slots	4 slots	
GPRS	128	824.2	31.55	31.31	/	/	38.45
	190	836.6	31.58	31.34	/	/	38.45
	251	848.8	31.61	31.34	/	/	38.45

PCS Band (Part 24E)

Mode	Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)
GSM	512	1850.2	30.18	33
	661	1880.0	30.11	33
	810	1909.8	29.77	33

Mode	Channel	Frequency (MHz)	Output Power (dBm)				Limit (dBm)
			1 slot	2 slots	3 slots	4 slots	
GPRS	512	1850.2	30.20	30.04	/	/	33
	661	1880.0	30.12	29.92	/	/	33
	810	1909.8	29.77	29.55	/	/	33

Radiated Power**ERP & EIRP**

GPRS Mode:

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)				
High Channel											
848.8	95.26	120	1.6	H	848.8	23.8	H	0	0.9	22.9	38.45
848.8	104.89	180	2.1	V	848.8	32.1	V	0	0.9	31.2	38.45

GPRS Mode:

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)				
Low Channel											
1850.20	89.65	360	1.9	H	1850.20	14.6	H	6.2	1.10	19.7	33
1850.20	99.32	180	1.4	V	1850.20	24.4	V	6.2	1.10	29.5	33

Note: All above data were tested with no amplifier.

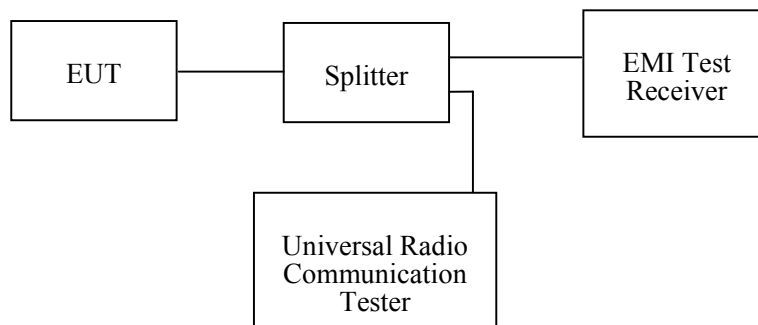
FCC §2.1049, §22.917, §22.905 & §24.238 - OCCUPIED BANDWIDTH**Applicable Standard**

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	EMI Test Receiver	ESCI	101122	2011-11-17	2012-11-16
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 Jimmy Xiao on 2012-04-25.

Test Mode: Transmitting

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

GMSK Modulation:

Cellular Band (Part 22H)

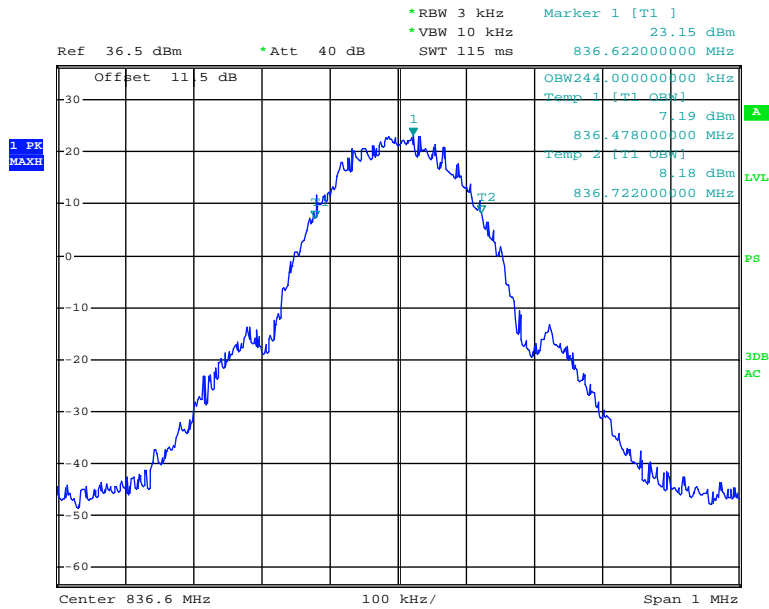
Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
190	836.6	244	314

PCS Band (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
661	1880.0	248	320

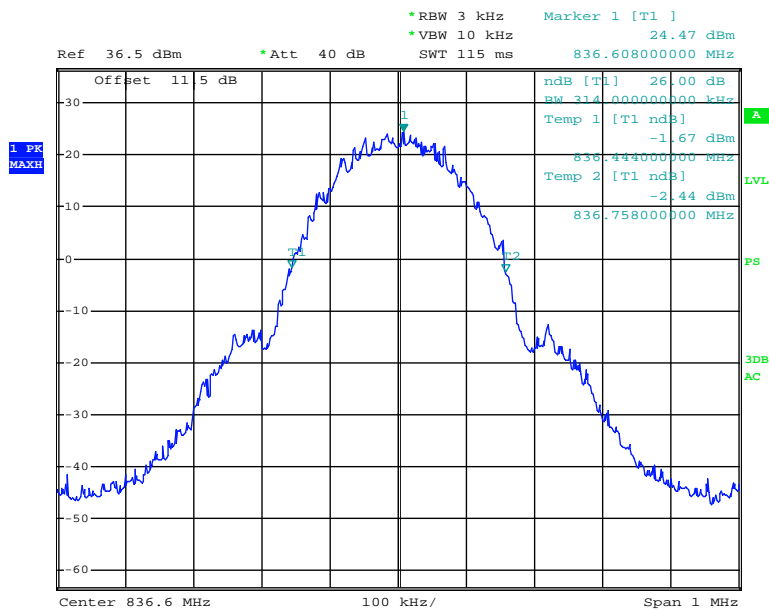
Cellular Band (Part 22H)

99% Occupied Bandwidth



Date: 25.APR.2012 00:21:55

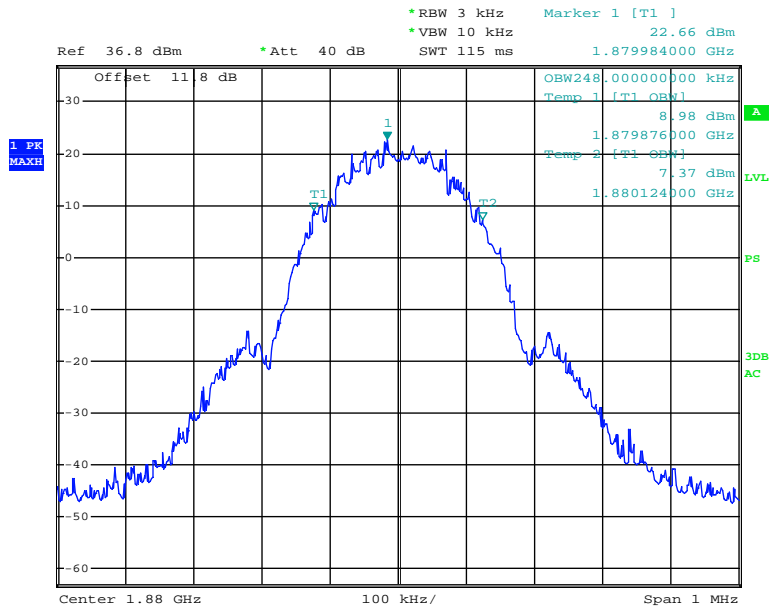
26 dB Bandwidth



Date: 25.APR.2012 00:21:24

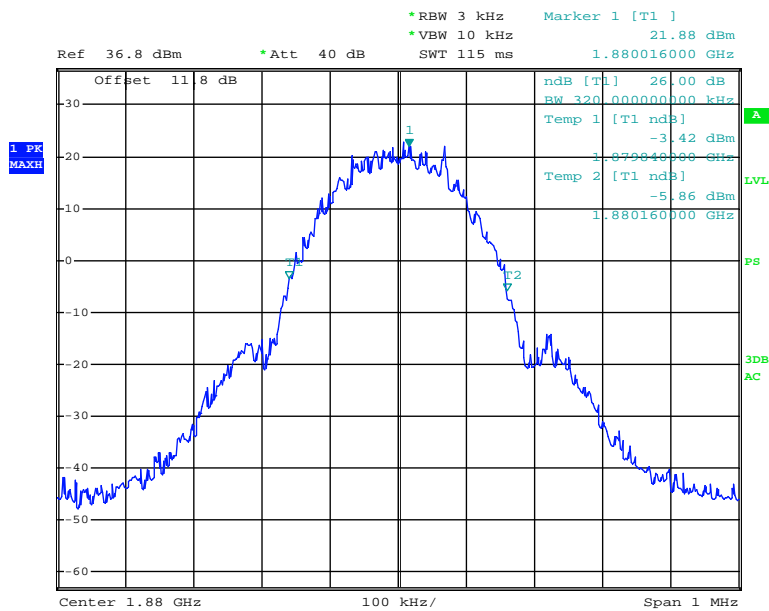
PCS Band (Part 24E)

99% Occupied Bandwidth



Date: 25.APR.2012 00:35:00

26 dB Bandwidth



Date: 25.APR.2012 00:34:33

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

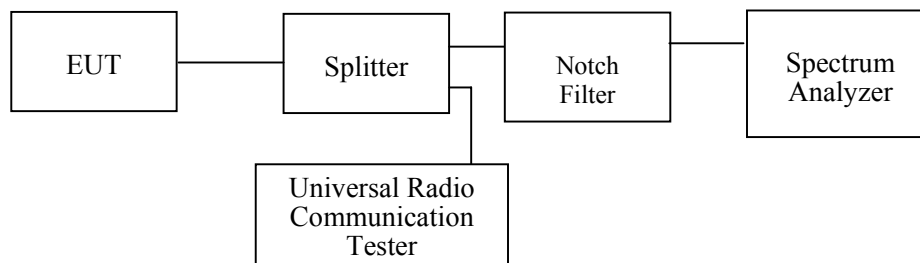
Applicable Standard

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	FSIQ26	8386001028	2011-11-24	2012-11-23
Rohde & Schwarz	EMI Test Receiver	ESCI	101122	2011-11-17	2012-11-16

* **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

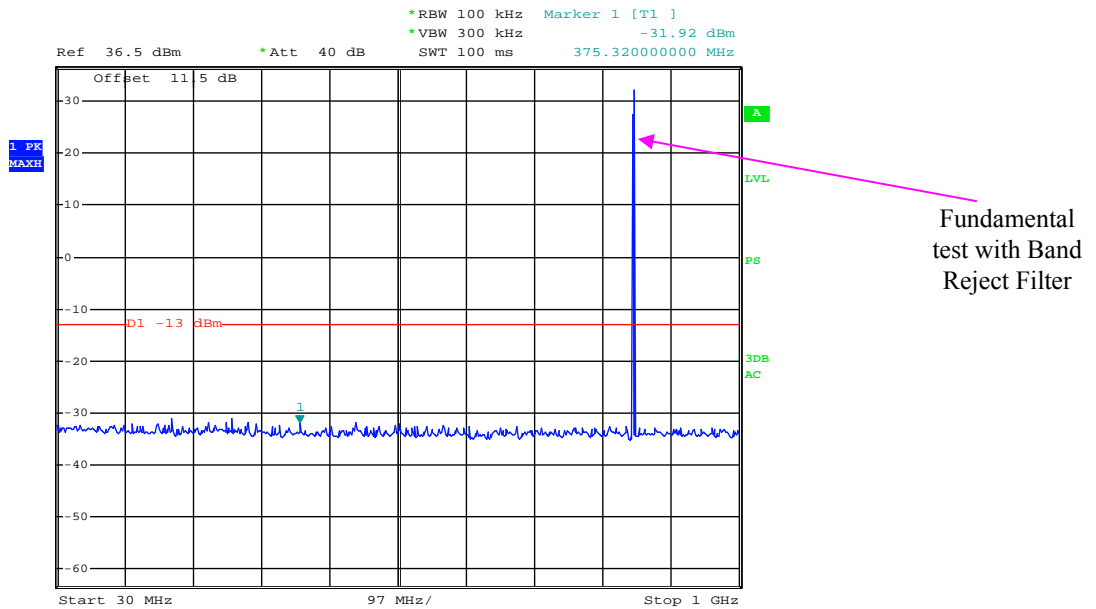
Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

The testing was performed by Jimmy Xiao from 2012-04-21 to 2012-04-25.

Please refer to the following plots.

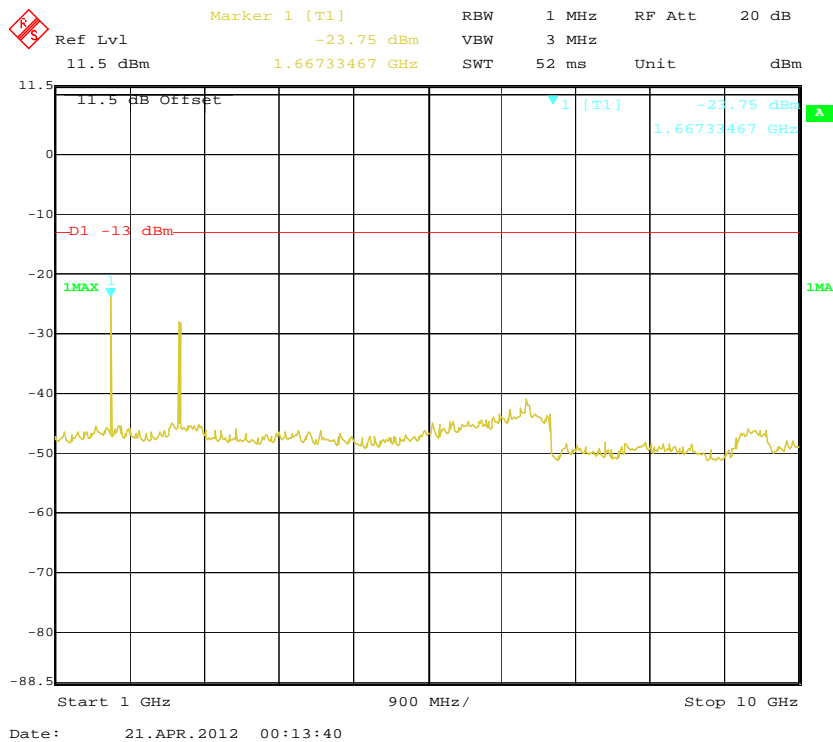
Cellular Band (Part 22H)

30 MHz – 1 GHz - Middle Channel



Date: 25.APR.2012 00:32:05

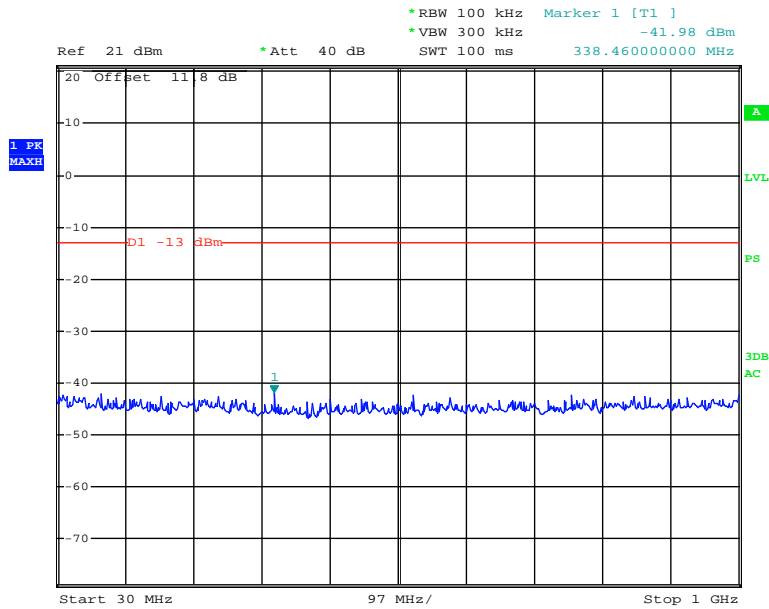
1 GHz – 10 GHz - Middle Channel



Date: 21.APR.2012 00:13:40

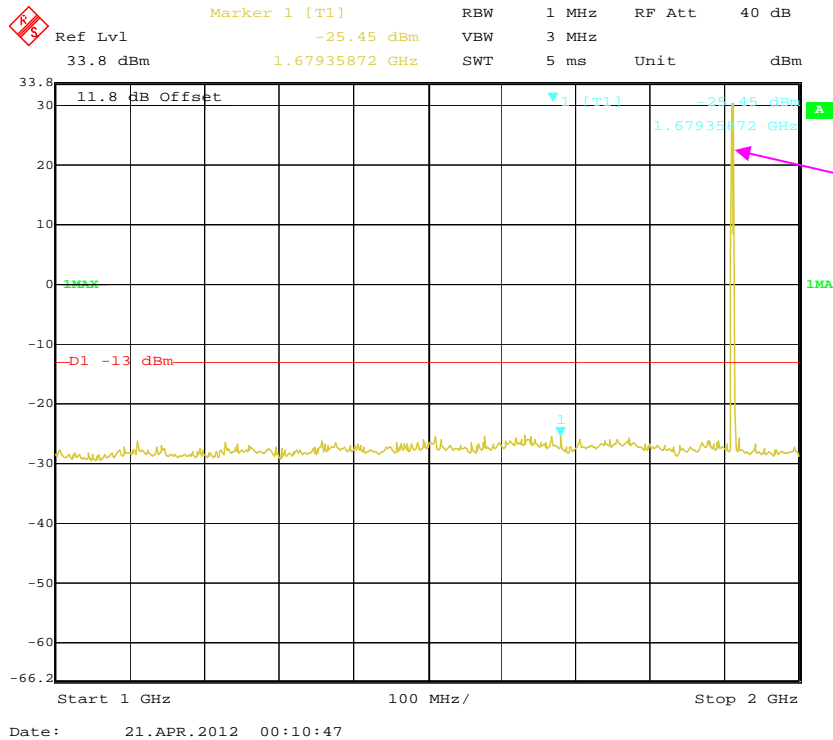
PCS Band (Part 24E)

30 MHz – 1 GHz - Middle Channel



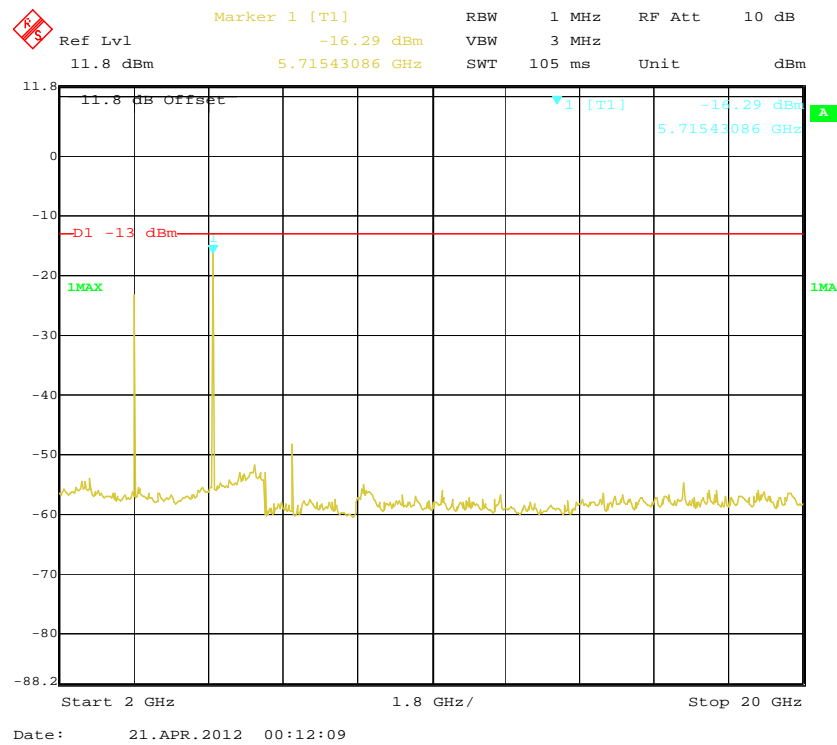
Date: 25.APR.2012 00:33:23

1 GHz – 2 GHz - Middle Channel



Date: 21.APR.2012 00:10:47

2 GHz – 20 GHz - Middle Channel



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	FSIQ26	8386001028	2011-11-24	2012-11-23
Mini-Circuits	Amplifier	ZVA-213+	T-E27H	2012-03-08	2013-03-07
HP	Signal Generator	HP8657A	2849U00982	2011-10-28	2012-10-27
HP	Amplifier	HP8447D	2944A09795	2011-08-02	2012-08-01
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	2012-05-16
Electro-Mechanics	Horn antenna	3116	9510-2270	2011-10-11	2012-11-10
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 Jimmy Xiao on 2012-04-25.

Test mode: Transmitting (worst case)

30 MHz ~ 10 GHz:**Cellular Band (Part 22H)**

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											
2509.8	43.62	190	1.6	V	2509.8	-30.6	10.20	1.46	-21.86	-13	8.86
2509.8	45.01	140	1.9	H	2509.8	-33.6	10.20	1.46	-24.86	-13	11.86
1673.2	55.10	130	1.4	V	1673.2	-33.3	9.00	0.97	-25.27	-13	12.27
1673.2	49.43	250	1.8	H	1673.2	-36.6	9.00	0.97	-28.57	-13	15.57
3346.4	32.10	50	1.4	V	3346.4	-41.0	11.50	2.08	-31.58	-13	18.58
3346.4	34.50	330	2.3	H	3346.4	-45.2	11.50	2.08	-35.78	-13	22.78
745.24	44.68	290	1.8	H	745.24	-52.5	0	0.61	-53.11	-13	40.11
745.24	42.46	100	1.7	V	745.24	-54.8	0	0.61	-55.41	-13	42.41

30 MHz ~ 20 GHz:**PCS Band (Part 24E)**

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											
3760	70.49	150	1.7	H	3760	-26.5	12.00	2.96	-17.46	-13	4.46
3760	69.41	180	1.9	V	3760	-26.8	12.00	2.96	-17.76	-13	4.76
5640	48.85	220	2.3	V	5640	-42.3	12.40	3.94	-33.84	-13	20.84
5640	47.83	170	1.4	H	5640	-44.6	12.40	3.94	-36.14	-13	23.14
7520	38.79	210	1.9	H	7520	-49.5	10.50	3.07	-42.07	-13	29.07
7520	37.53	140	1.3	V	7520	-51.9	10.50	3.07	-44.47	-13	31.47
486.68	45.32	160	1.4	V	486.68	-51.8	0	0.54	-52.34	-13	39.34
486.68	43.31	270	1.6	H	486.68	-52.7	0	0.54	-53.24	-13	40.24

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

Applicable Standard

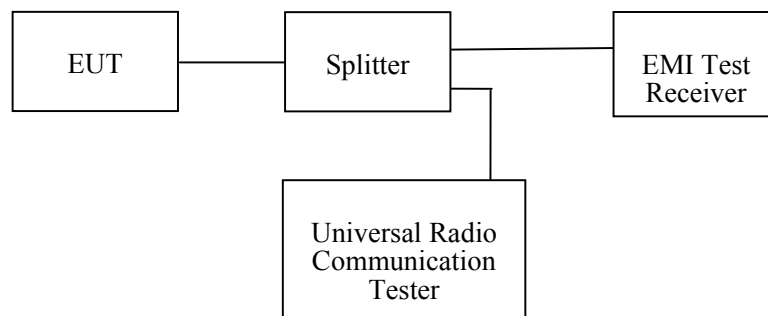
According to § 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

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
Rohde & Schwarz	EMI Test Receiver	ESCI	101122	2011-11-17	2012-11-16
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 Jimmy Xiao on 2012-04-25.

Test Mode: Transmitting

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

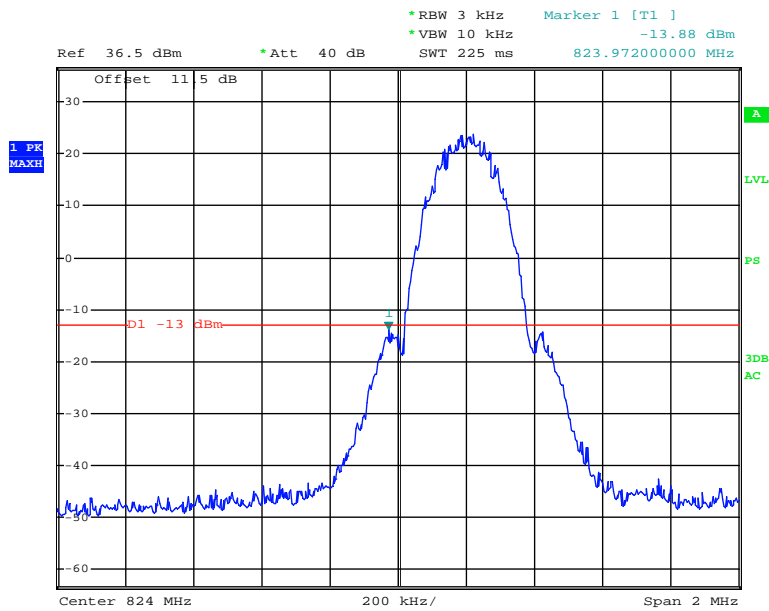
Cellular Band (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.972	-13.88	≤ -13
849.020	-13.07	≤ -13

PCS Band (Part 24E)

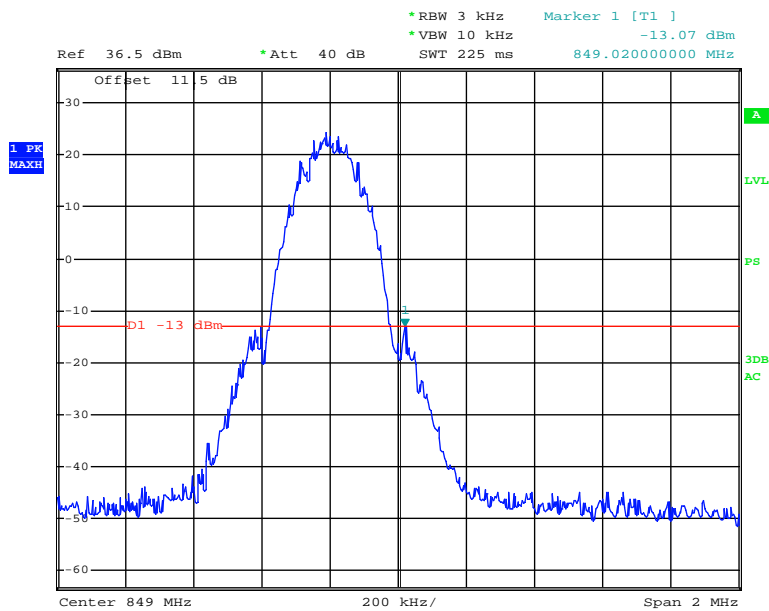
Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.984	-15.09	≤ -13
1910.020	-17.59	≤ -13

Cellular Band, Left Band Edge



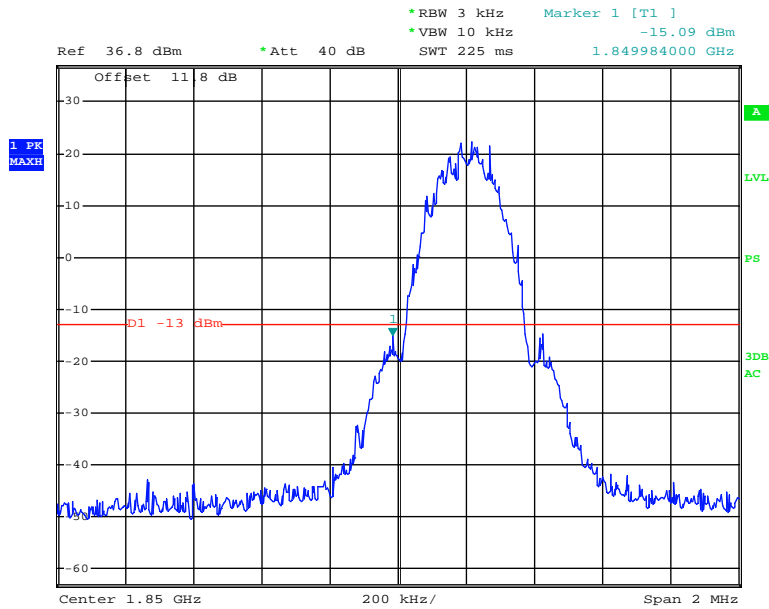
Date: 25.APR.2012 00:29:54

Cellular Band, Right Band Edge



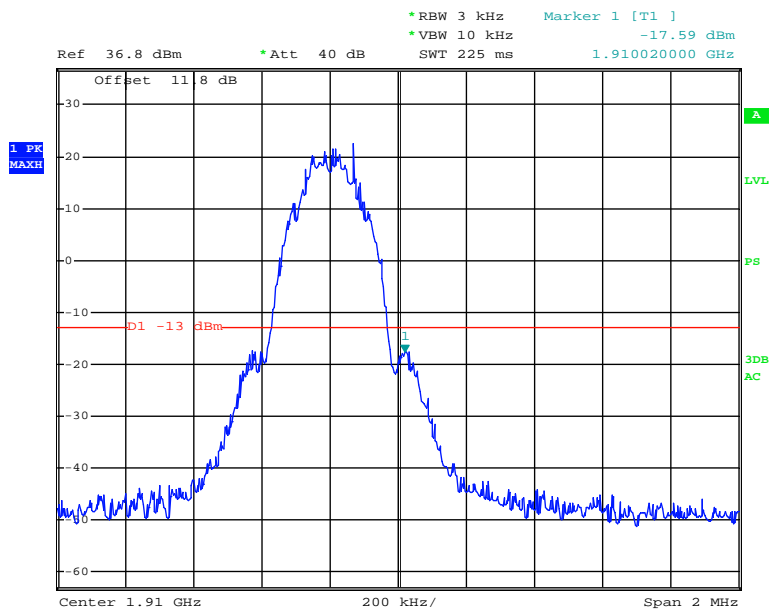
Date: 25.APR.2012 00:30:30

PCS Band, Left Band Edge



Date: 25.APR.2012 00:35:43

PCS Band, Right Band Edge



Date: 25.APR.2012 00:36:13

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

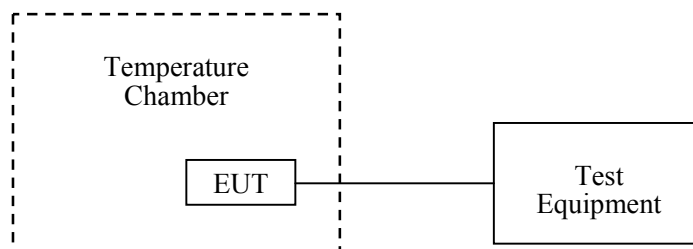
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

Test 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	2011-06-04	2012-06-03
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:	20 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

The testing was performed by Jimmy Xiao on 2012-04-25.

Test Mode: Transmitting

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

Cellular Band (Part 22H)

Middle Channel, $f_0 = 836.6$ MHz				
Temperature (°C)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.7	11	0.01315	2.5
-20		15	0.01793	2.5
-10		6	0.00717	2.5
0		9	0.01076	2.5
10		7	0.00837	2.5
20		4	0.00478	2.5
30		13	0.01554	2.5
40		9	0.01076	2.5
50		10	0.01195	2.5
25	$V_{max.} = 4.2$	6	0.00717	2.5
	$V_{min.} = 3.5$	7	0.00837	2.5

PCS Band (Part 24E)

Middle Channel, $f_0 = 1880.0$ MHz				
Temperature (°C)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Result
-30	3.7	29	0.01543	Pass
-20		32	0.01702	Pass
-10		31	0.01649	Pass
0		39	0.02074	Pass
10		28	0.01489	Pass
20		32	0.01702	Pass
30		31	0.01649	Pass
40		21	0.01117	Pass
50		33	0.01755	Pass
25	$V_{max} = 4.2$	35	0.01862	Pass
	$V_{min} = 3.5$	32	0.01702	Pass

PRODUCT SIMILARITY DECLARATION LETTER



Company Name: MAXCOM MOBILE
Address: Room 2202 International Science and Technology Building, Futian District,
3007 Shennan Road, Shenzhen, China
Tel: 0755-83018553
Fax: 0755-83018553
2012-04-27

Product Similarity Declaration

To Whom It May Concern,

We, MAXCOM MOBILE., hereby declare that our GSM Mobile Phone, Model Number: Mini-Q902 and Like-Q90 are electrically identical with the Like-m94 that was certified by BACL. They are just different in model No. due to marketing purposes.

Please contact me if you have any question.

Signature:

A handwritten signature in blue ink that reads "Jaime Wong". The signature is written in a cursive, flowing style.

Jaime Wong
manager

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