

FCC RF Test Report

APPLICANT : ViewSonic Corporation
EQUIPMENT : Smart Phone
BRAND NAME : ViewSonic
MODEL NAME : VS14032
FCC ID : GSS-VS14032
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
Tx/Rx FREQUENCY RANGE : GSM850 : 824.2 ~ 848.8 MHz /
869.2 ~ 893.8 MHz
GSM1900 : 1850.2 ~ 1909.8 MHz /
1930.2 ~ 1989.8 MHz
WCDMA Band V : 826.4 ~ 846.6 MHz /
871.4 ~ 891.6 MHz
MAX. ERP/EIRP POWER : GSM850 (GPRS 8) : 0.327 W
GSM850 (EDGE 8) : 0.101 W
GSM1900 (GSM) : 0.288 W
GSM1900 (EDGE 8) : 0.164 W
WCDMA Band V (RMC 12.2Kbps) : 0.052 W

The product was received on Nov. 28, 2011 and completely tested on Dec. 18, 2011. We, SPORTON INTERNATIONAL Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:



Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG1N2831	Rev. 01	Initial issue of report	Dec. 27, 2011
FG1N2831	Rev. 02	Remove HSUPA conducted power table	Dec. 30, 2011

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	N/A	Conducted Output Power	N/A	PASS	-
3.2	§22.913(a)(2)	RSS-132(4.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	-
3.2	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.3	§2.1049 §22.917(a) §24.238(a)	N/A	Occupied Bandwidth	N/A	PASS	-
3.4	§2.1051 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Band Edge Measurement	< 43+10log ₁₀ (P[Watts])	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Conducted Emission	< 43+10log ₁₀ (P[Watts])	PASS	-
3.6	§2.1053 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 1.29 dB at 7520.000 MHz
3.7	§2.1055 §22.355 §24.235	RSS-132(4.3) RSS-133(6.3)	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

1 General Description

1.1 Applicant

ViewSonic Corporation

381 Brea Canyon Road, Walnut, CA 91789, USA

1.2 Manufacturer

ViewSonic Corporation

381 Brea Canyon Road, Walnut, CA 91789, USA

1.3 Feature of Equipment Under Test

Product Feature & Specification	
Equipment	Smart Phone
Brand Name	ViewSonic
Model Name	VS14032
FCC ID	GSS-VS14032
Tx Frequency	GSM850 : 824 MHz ~ 849 MHz GSM1900 : 1850 MHz ~ 1910 MHz WCDMA Band V : 824 MHz ~ 849 MHz
Rx Frequency	GSM850 : 869 MHz ~ 894 MHz GSM1900 : 1930 MHz ~ 1990 MHz WCDMA Band V : 869 MHz ~ 894 MHz
Maximum Output Power to Antenna	GSM850 : 33.18 dBm GSM1900 : 28.64 dBm WCDMA Band V : 22.46 dBm
Antenna Type	Fixed Internal Antenna
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink)
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Emission Designator and Maximum ERP/EIRP Power

FCC Rule	System	Type of Modulation	Emission Designator	Maximum ERP/EIRP
Part 22	GSM850 GPRS 8	GMSK	244KGXW	0.327 W
Part 22	GSM850 EDGE 8	GMSK / 8PSK	248KG7W	0.101 W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK (Uplink)	4M12F9W	0.052 W
Part 24	GSM1900 GSM	GMSK	248KGXW	0.288 W
Part 24	GSM1900 EDGE 8	GMSK / 8PSK	242KG7W	0.164 W

1.5 Testing Site

Test Site	SPORTON INTERNATIONAL INC.		
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978		
Test Site No.	Sporton Site No.		FCC/IC Registration No.
	TH02-HY	03CH07-HY	722060/4086B-1

1.6 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC 47 CFR Part 2, 22(H), 24(E)
- ♦ ANSI / TIA / EIA-603-C-2004
- ♦ IC RSS-132 Issue 2
- ♦ IC RSS-133 Issue 5

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



1.7 Ancillary Equipment List

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU200	N/A	N/A	Unshielded, 1.8 m

2 Test Configuration of Equipment Under Test

2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is as follows:

1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.
2. 30 MHz to 19000 MHz for GSM1900.

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM 850	■ GPRS 8 Link ■ EDGE 8 Link	■ GPRS 8 Link ■ EDGE 8 Link
GSM 1900	■ GSM Link ■ EDGE 8 Link	■ GSM Link ■ EDGE 8 Link
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link

Note:

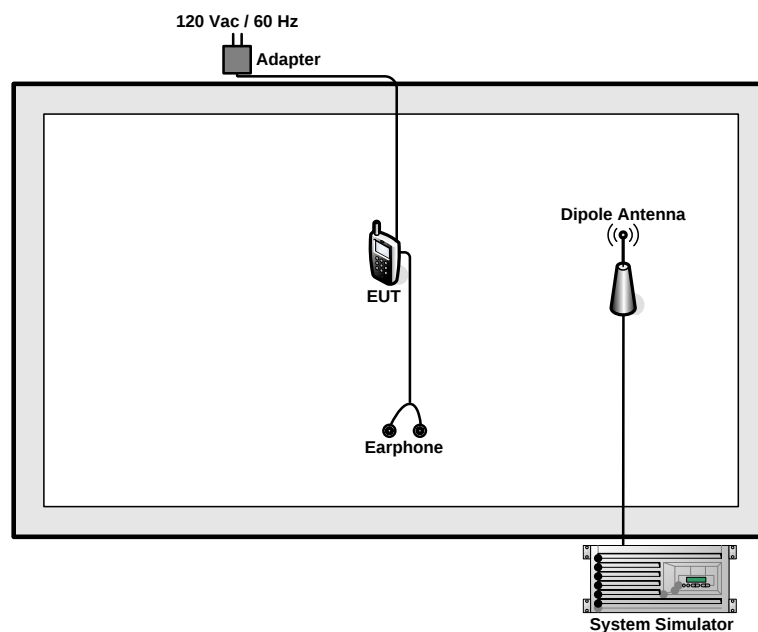
1. The maximum power levels are GSM or GPRS multi-slot class 8 mode for GMSK link, EDGE multi-slot class 8 mode for 8PSK link, and RMC 12.2Kbps mode for WCDMA band V, only these modes were used for all tests.
2. Because there are individual antennas for each WWAN, WLAN, and Bluetooth, the co-location test modes are not required.

The conducted power tables are as follows:

Conducted Power (*Unit: dBm)						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM	33.07	33.12	33.17	28.52	28.60	28.64
GPRS 8	33.07	33.16	33.18	28.47	28.56	28.60
GPRS 10	30.03	30.09	30.10	25.87	25.95	26.03
GPRS 12	26.71	26.80	26.82	22.81	22.87	22.91
EGPRS 8	27.53	27.59	27.68	24.83	24.92	24.98
EGPRS 10	27.00	27.11	27.09	24.85	24.92	24.97
EGPRS 12	25.59	25.68	26.71	22.82	22.88	22.94

Conducted Power (*Unit: dBm)			
Band	WCDMA Band V		
Channel	4132	4182	4233
Frequency	826.4	836.4	846.6
RMC 12.2K	22.22	22.36	22.46
HSDPA Subtest-1	22.22	22.26	22.40
HSDPA Subtest-2	22.07	22.16	22.29
HSDPA Subtest-3	21.73	21.78	21.94
HSDPA Subtest-4	21.72	21.76	21.88

2.2 Connection Diagram of Test System



3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

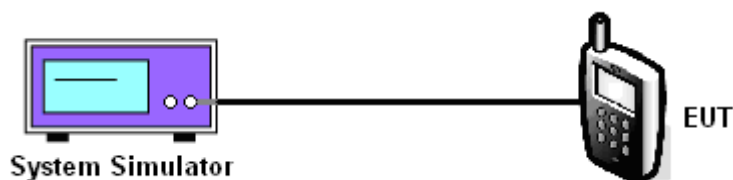
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

1. The transmitter output port was connected to base station.
2. Set EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.

3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

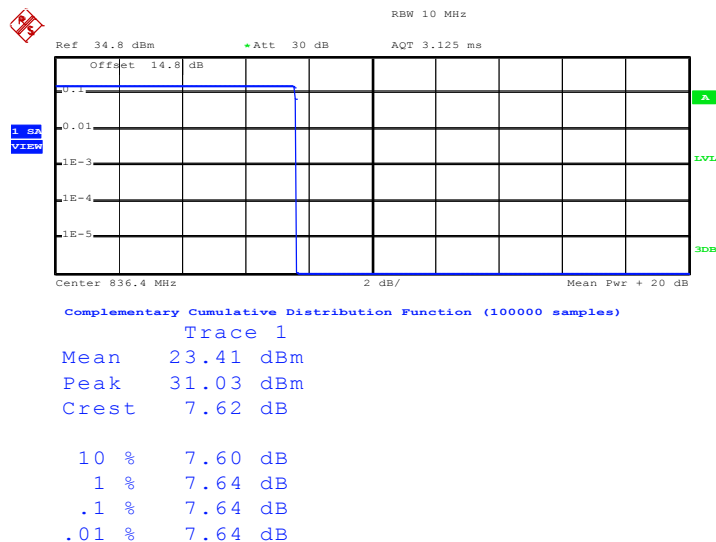
Cellular Band									
Modes	GSM850 (GPRS 8)			GSM850 (EDGE 8)			WCDMA Band V (RMC 12.2Kbps)		
Channel	128 (Low)	189 (Mid)	251 (High)	128 (Low)	189 (Mid)	251 (High)	4132 (Low)	4182 (Mid)	4233 (High)
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	826.4	836.4	846.6
Conducted Power (dBm)	33.07	33.16	33.18	27.53	27.59	27.68	22.22	22.36	22.46
Conducted Power (Watts)	2.03	2.07	2.08	0.57	0.57	0.59	0.17	0.17	0.18

PCS Band						
Modes	GSM1900 (GSM)			GSM1900 (EDGE 8)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8
Conducted Power (dBm)	28.52	28.60	28.64	24.83	24.92	24.98
Conducted Power (Watts)	0.71	0.72	0.73	0.30	0.31	0.31



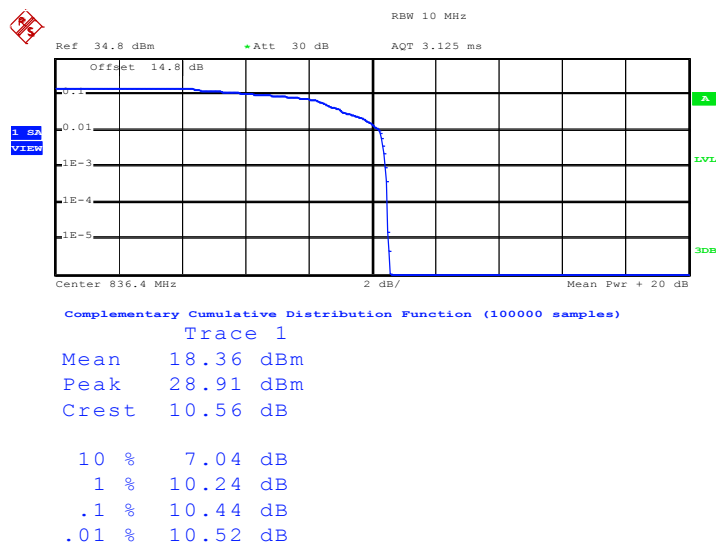
3.1.6 Peak to Average Power Ratio

GSM850 (GPRS 8) C.C.D.F.

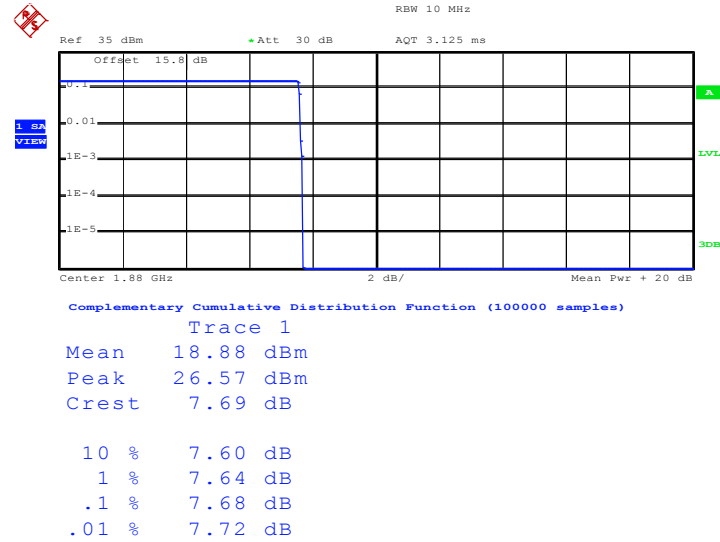


Date: 9.DEC.2011 09:39:32

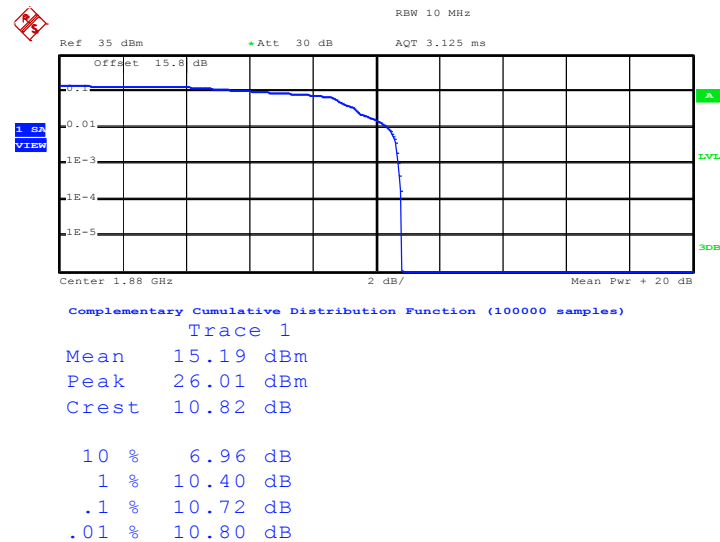
GSM850 (EDGE 8) C.C.D.F.



Date: 9.DEC.2011 10:09:30

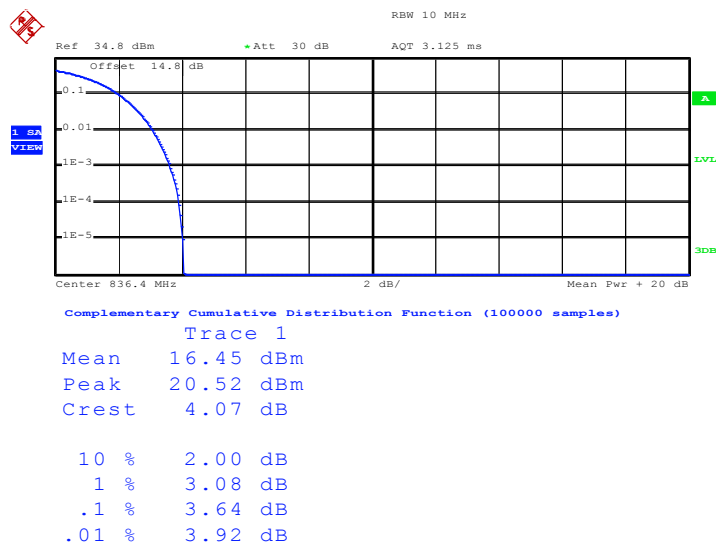
GSM1900 (GSM) C.C.D.F.


Date: 9.DEC.2011 10:24:45

GSM1900 (EDGE 8) C.C.D.F.


Date: 9.DEC.2011 10:29:03

WCDMA Band V (RMC 12.2Mbps) C.C.D.F.



Date: 9.DEC.2011 11:04:51

3.2 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

3.2.1 Description of the ERP/EIRP Measurement

ERP/EIRP is measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

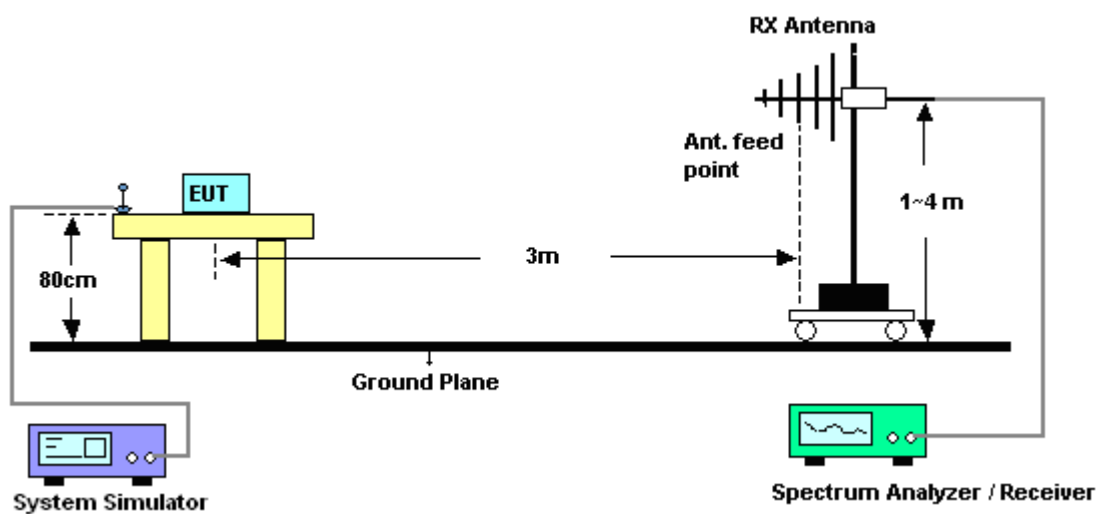
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

1. The EUT was placed on an non-conductive rotating platform with 0.8 meter height in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RBW= 3MHz,VBW= 3MHz, and peak detector settings.
2. During the measurement, the EUT was enforced in maximum power and linked with a base station. The highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
3. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (substitution antenna) at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, $EIRP = LVL + \text{Correction factor}$ and $ERP = EIRP - 2.15$.

3.2.4 Test Setup



3.2.5 Test Result of ERP

GSM850 (GPRS 8) Radiated Power ERP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	-4.48	30.89	24.26	0.267
836.4	-4.21	31.13	24.77	0.300
848.8	-4.32	31.62	25.15	0.327
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	-10.89	35.93	22.89	0.195
836.4	-11.45	34.95	21.35	0.136
848.8	-11.47	34.71	21.09	0.129

* ERP = LVL (dBm) + Correction Factor (dB) – 2.15

GSM850 (EDGE 8) Radiated Power ERP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	-9.51	30.89	19.23	0.084
836.4	-9.00	31.13	19.98	0.100
848.8	-9.42	31.62	20.05	0.101
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	-18.23	35.93	15.55	0.036
836.4	-18.03	34.95	14.77	0.030
848.8	-18.20	34.71	14.36	0.027

* ERP = LVL (dBm) + Correction Factor (dB) – 2.15

WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
826.40	-11.60	30.89	17.14	0.052
836.40	-11.95	31.13	17.03	0.050
846.60	-12.72	31.62	16.75	0.047
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
826.40	-21.61	35.93	12.17	0.016
836.40	-20.17	34.95	12.63	0.018
846.60	-20.69	34.71	11.87	0.015

* ERP = LVL (dBm) + Correction Factor (dB) – 2.15

3.2.6 Test Result of EIRP

GSM1900 (GSM) Radiated Power EIRP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	-17.39	41.24	23.85	0.243
1880.0	-17.00	41.46	24.46	0.279
1909.8	-16.62	41.21	24.59	0.288
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	-24.64	41.52	16.88	0.049
1880.0	-24.54	43.10	18.56	0.072
1909.8	-23.30	42.73	19.43	0.088

* EIRP = LVL (dBm) + Correction Factor (dB)

GSM1900 (EDGE 8) Radiated Power EIRP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	-19.18	41.24	22.06	0.161
1880.0	-19.50	41.46	21.96	0.157
1909.8	-19.07	41.21	22.14	0.164
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	-27.30	41.52	14.22	0.026
1880.0	-27.93	43.10	15.17	0.033
1909.8	-26.40	42.73	16.33	0.043

* EIRP = LVL (dBm) + Correction Factor (dB)

3.3 Occupied Bandwidth Measurement

3.3.1 Description of Occupied Bandwidth Measurement

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

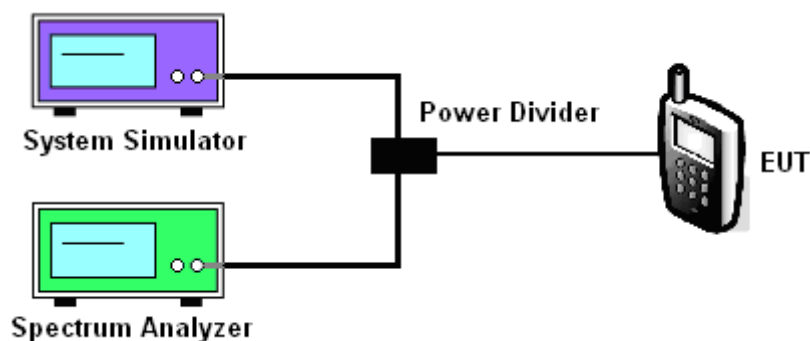
3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers were measured.

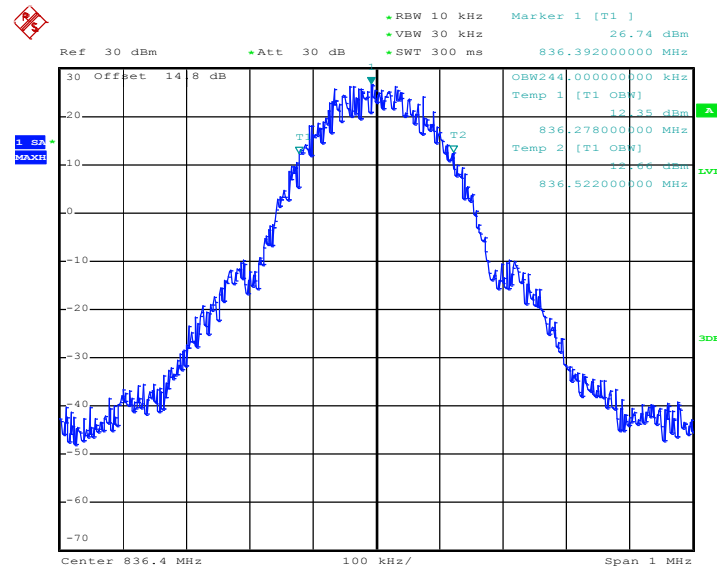
3.3.4 Test Setup



3.3.5 Test Result (Plots) of Occupied Bandwidth

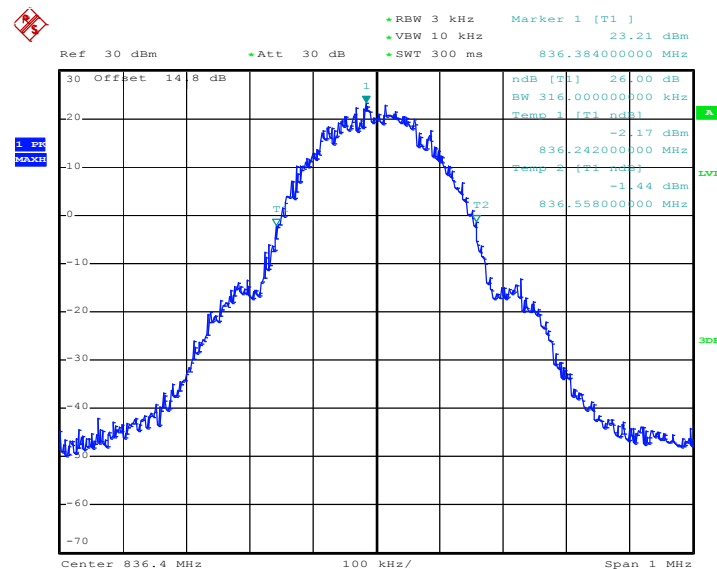
Band :	GSM 850	Power Stage :	High
Test Mode :	GPRS 8 Link		

99% Occupied Bandwidth Plot on Channel 189



Date: 9.DEC.2011 09:46:18

26dB Bandwidth Plot on Channel 189

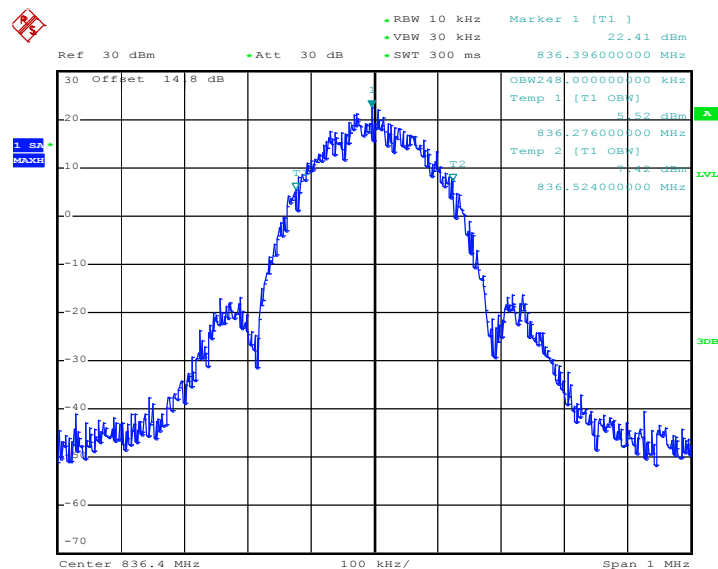


Date: 9.DEC.2011 09:44:59



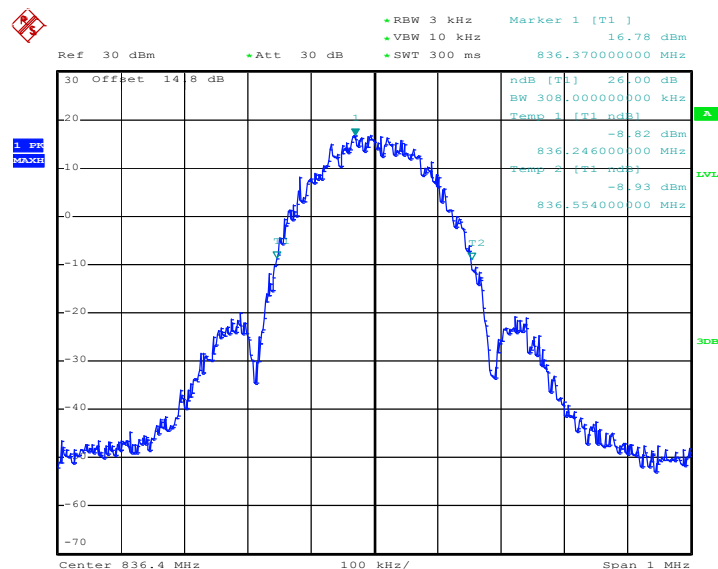
Band :	GSM 850	Power Stage :	High
Test Mode :	EDGE 8 Link		

99% Occupied Bandwidth Plot on Channel 189



Date: 9.DEC.2011 10:07:00

26dB Bandwidth Plot on Channel 189

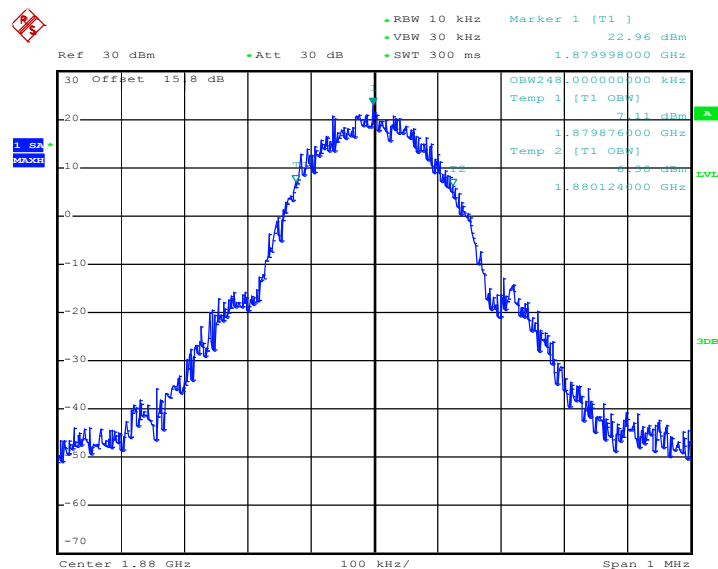


Date: 9.DEC.2011 10:05:41



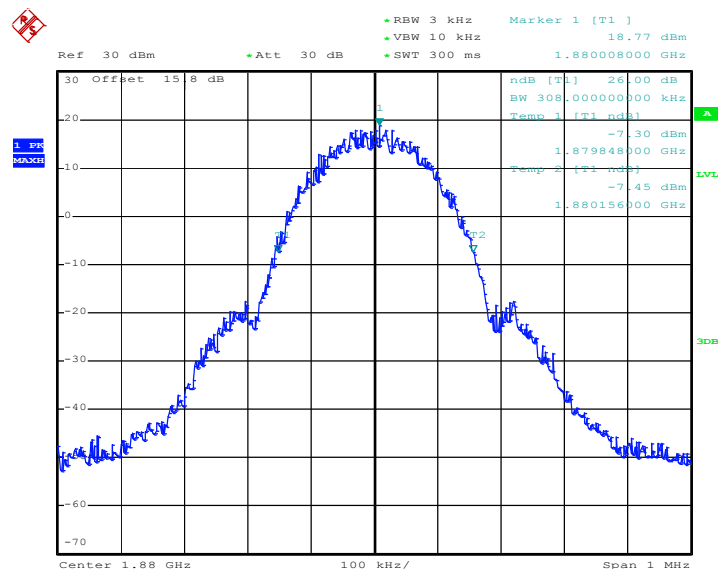
Band :	GSM 1900	Power Stage :	High
Test Mode :	GSM Link		

99% Occupied Bandwidth Plot on Channel 661



Date: 9.DEC.2011 10:15:31

26dB Bandwidth Plot on Channel 661

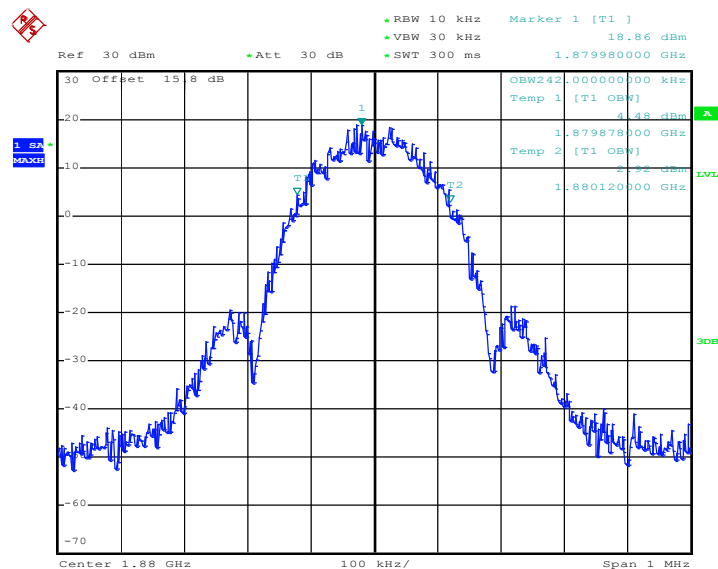


Date: 9.DEC.2011 10:14:12



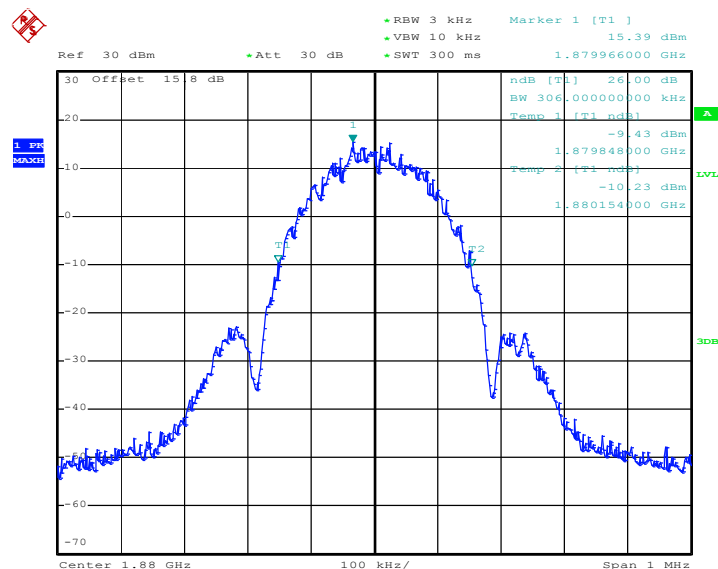
Band :	GSM 1900	Power Stage :	High
Test Mode :	EDGE 8 Link		

99% Occupied Bandwidth Plot on Channel 661



Date: 9.DEC.2011 10:33:50

26dB Bandwidth Plot on Channel 661

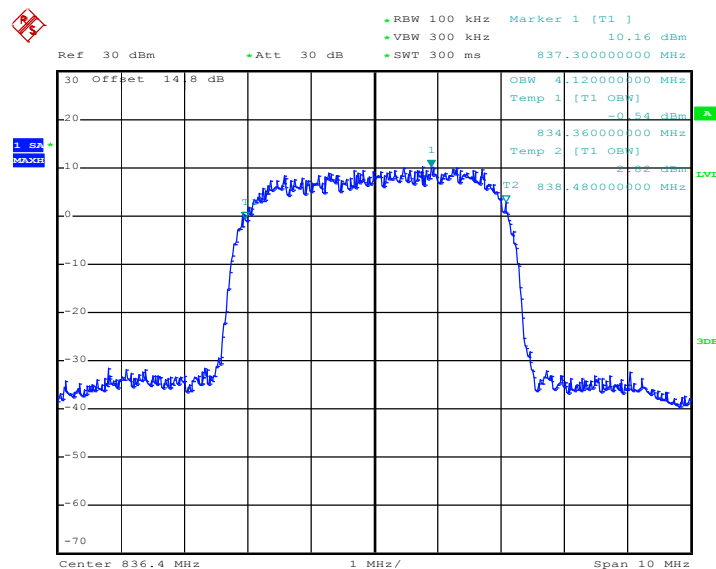


Date: 9.DEC.2011 10:32:31



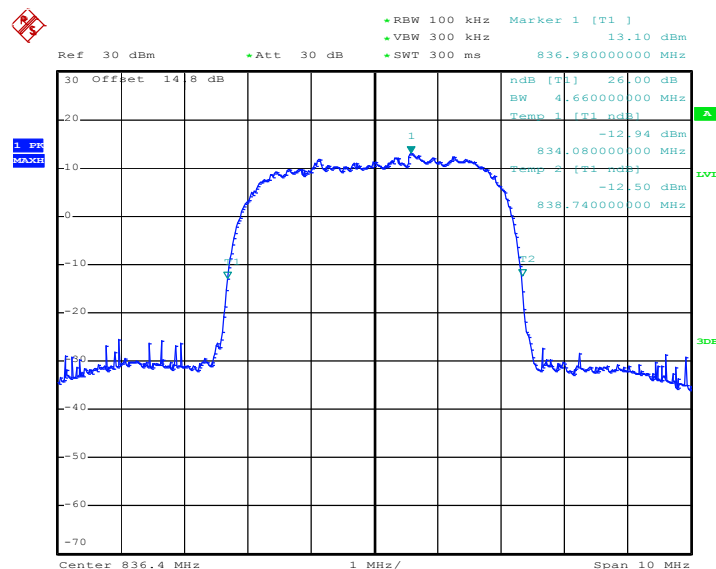
Band :	WCDMA Band V	Power Stage :	High
Test Mode :	RMC 12.2Kbps Link		

99% Occupied Bandwidth Plot on Channel 4182



Date: 9.DEC.2011 10:59:03

26dB Bandwidth Plot on Channel 4182



Date: 9.DEC.2011 10:57:43

3.4 Band Edge Measurement

3.4.1 Description of Band Edge Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

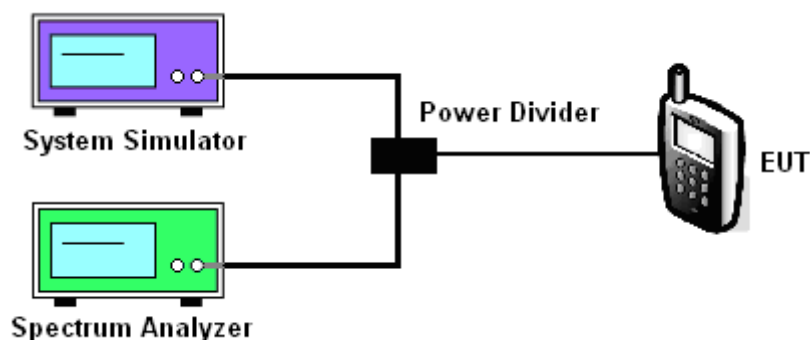
3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

3.4.3 Test Procedures

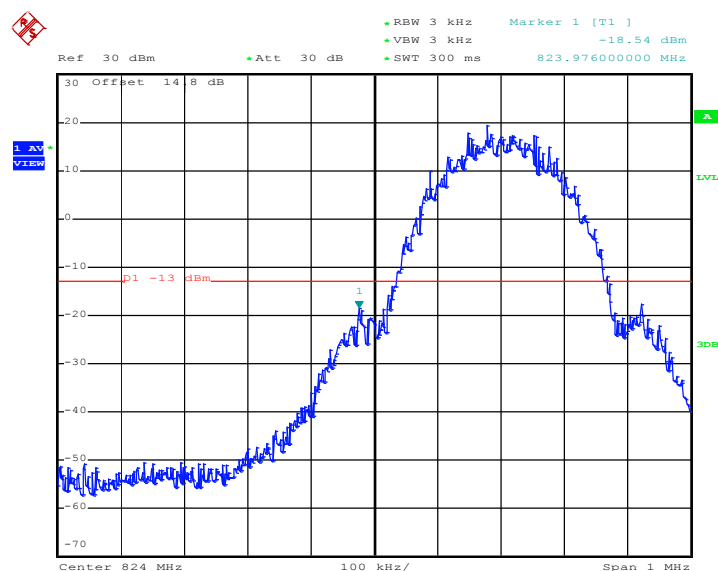
1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The band edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.

3.4.4 Test Setup

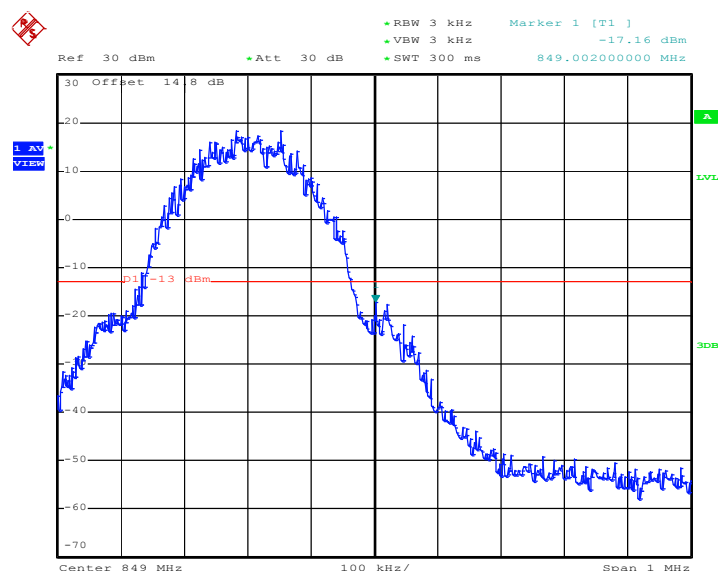


3.4.5 Test Result (Plots) of Conducted Band Edge

Band :	GSM850	Power Stage :	High
Test Mode :	GPRS 8 Link		

Lower Band Edge Plot on Channel 128


Date: 9.DEC.2011 09:48:11

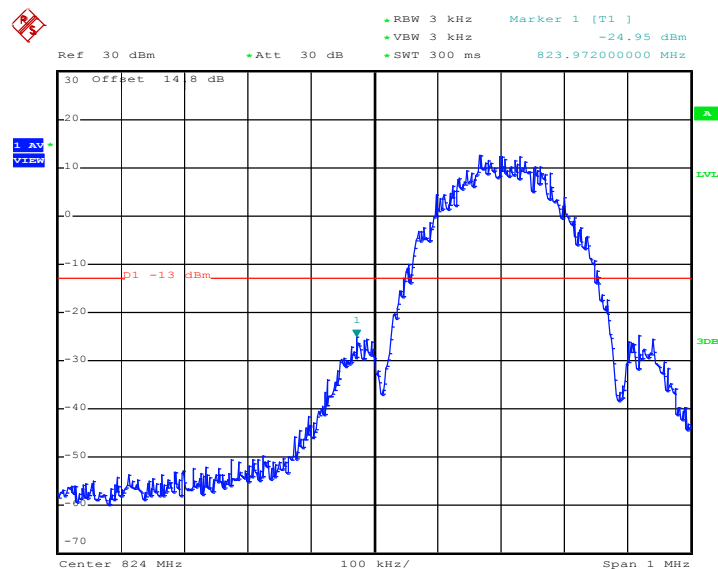
Higher Band Edge Plot on Channel 251


Date: 9.DEC.2011 09:48:37



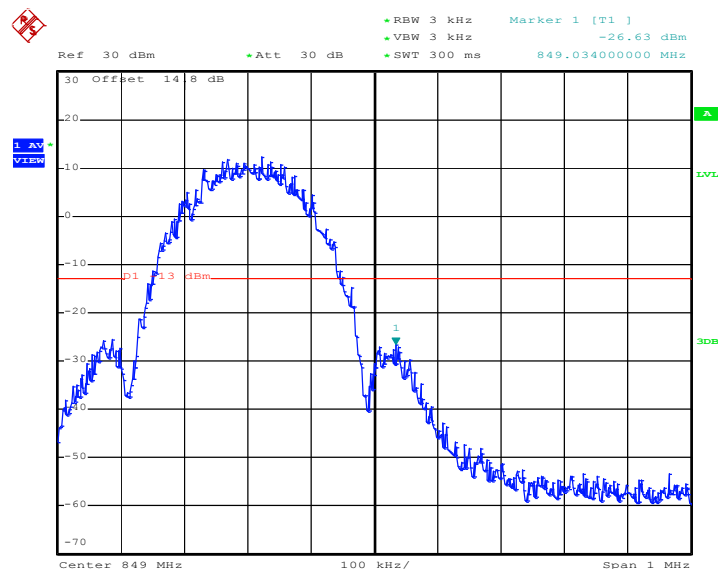
Band :	GSM850	Power Stage :	High
Test Mode :	EDGE 8 Link		

Lower Band Edge Plot on Channel 128



Date: 9.DEC.2011 10:07:53

Higher Band Edge Plot on Channel 251

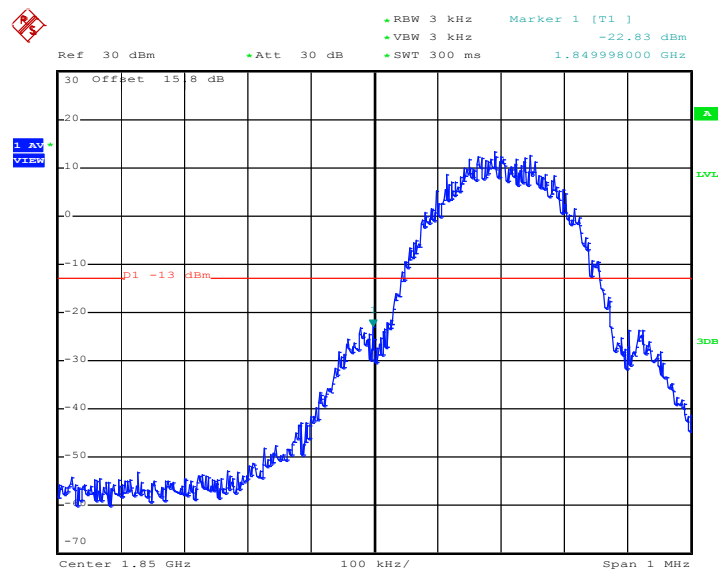


Date: 9.DEC.2011 10:08:19



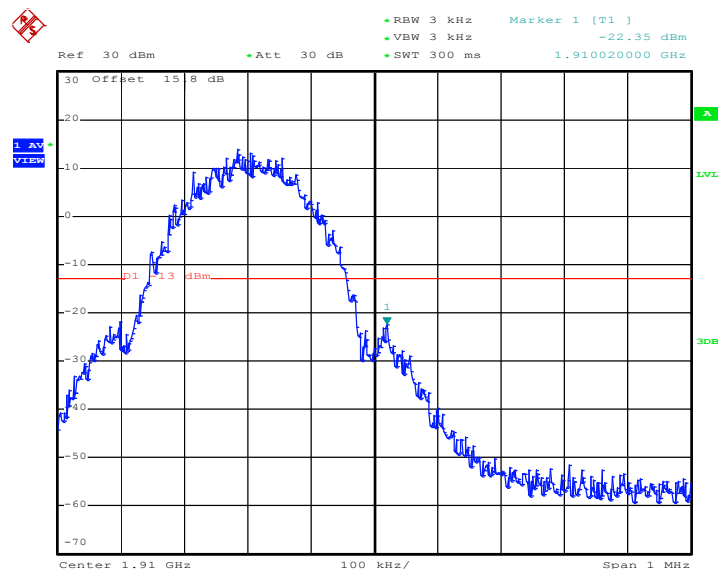
Band :	GSM1900	Power Stage :	High
Test Mode :	GSM Link		

Lower Band Edge Plot on Channel 512



Date: 9.DEC.2011 10:16:24

Higher Band Edge Plot on Channel 810

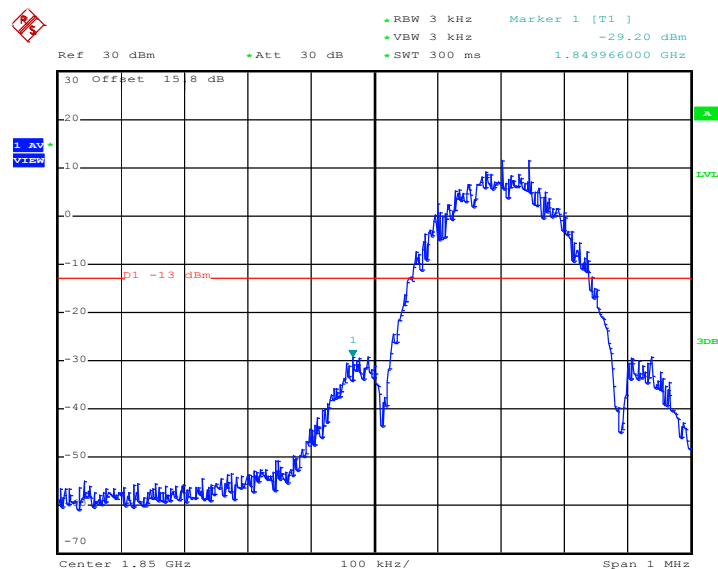


Date: 9.DEC.2011 10:16:50



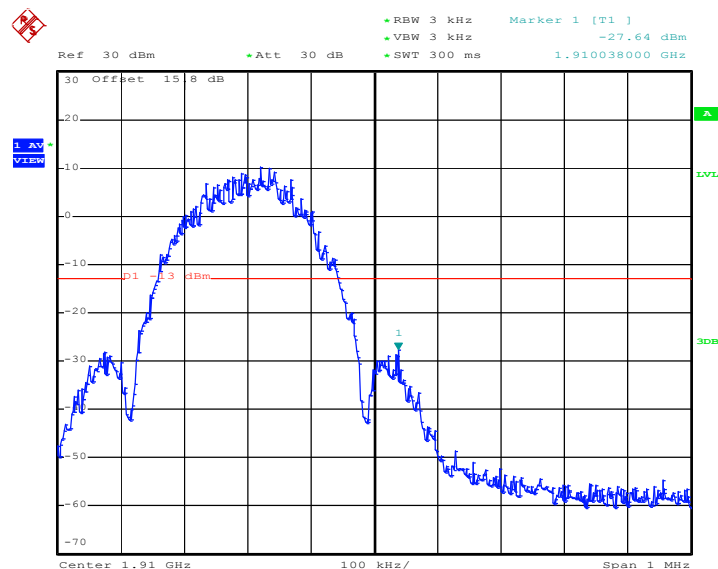
Band :	GSM1900	Power Stage :	High
Test Mode :	EDGE 8 Link		

Lower Band Edge Plot on Channel 512



Date: 9.DEC.2011 10:35:42

Higher Band Edge Plot on Channel 810

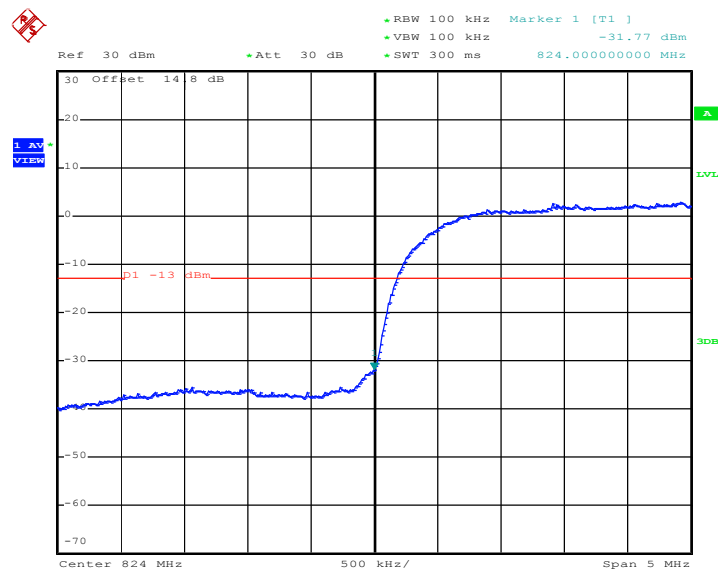


Date: 9.DEC.2011 10:36:08



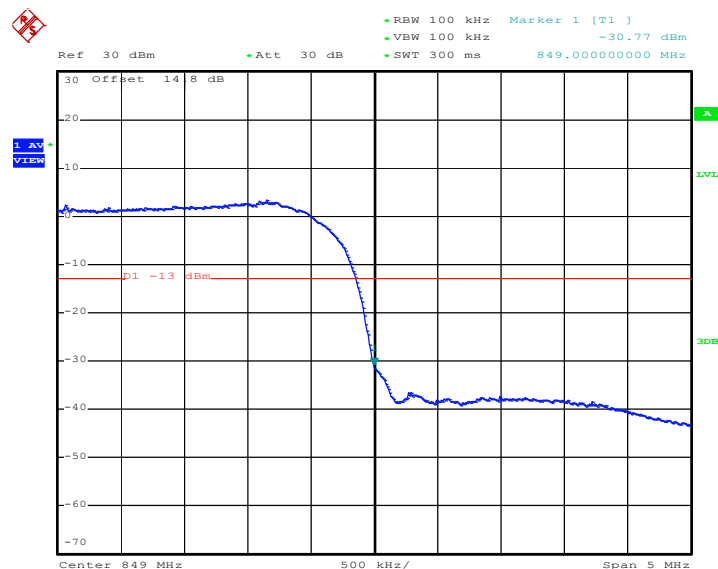
Band :	WCDMA Band V	Power Stage :	High
Test Mode :	RMC 12.2Kbps Link		

Lower Band Edge Plot on Channel 4132



Date: 9.DEC.2011 11:00:57

Higher Band Edge Plot on Channel 4233



Date: 9.DEC.2011 11:01:24

3.5 Conducted Emission Measurement

3.5.1 Description of Conducted Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

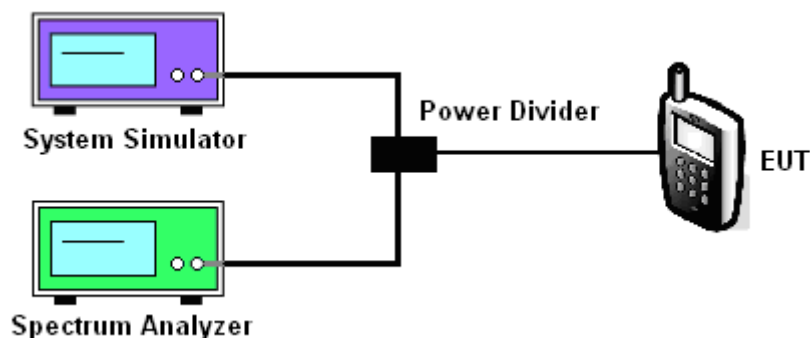
3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 Test Procedures

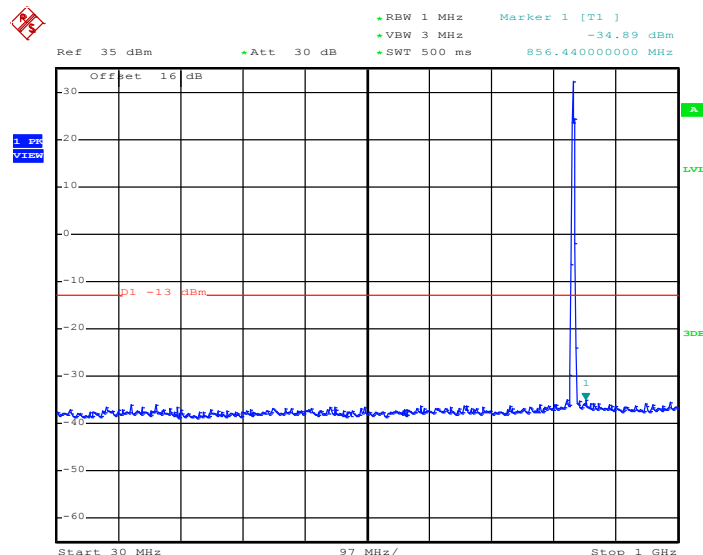
1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The middle channel for the highest RF power within the transmitting frequency was measured.
3. The conducted spurious emission for the whole frequency range was taken.

3.5.4 Test Setup

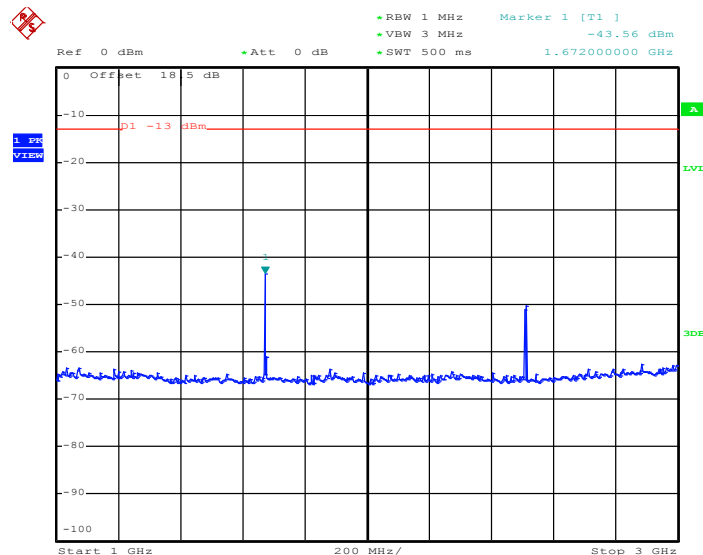


3.5.5 Test Result (Plots) of Conducted Emission

Band :	GSM850	Channel :	CH189
Test Mode :	GPRS 8 Link		

Conducted Emission Plot between 30MHz ~ 1GHz


Date: 9.DEC.2011 09:40:21

Conducted Emission Plot between 1GHz ~ 3GHz


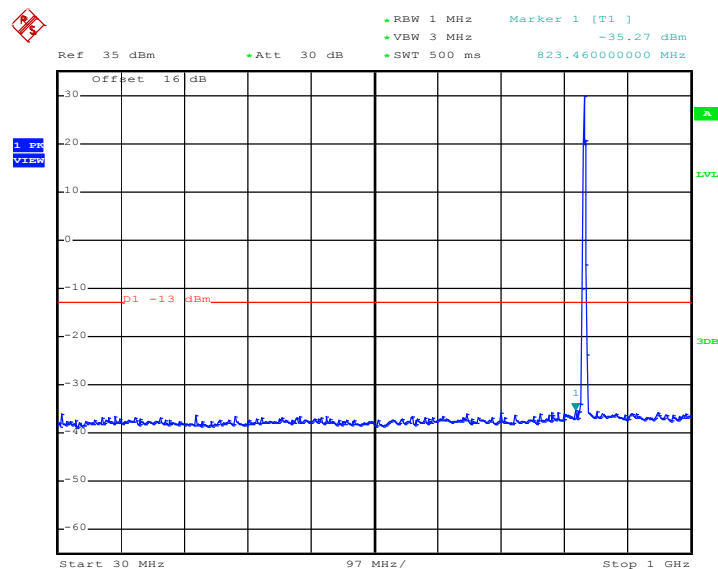
Date: 9.DEC.2011 09:40:38



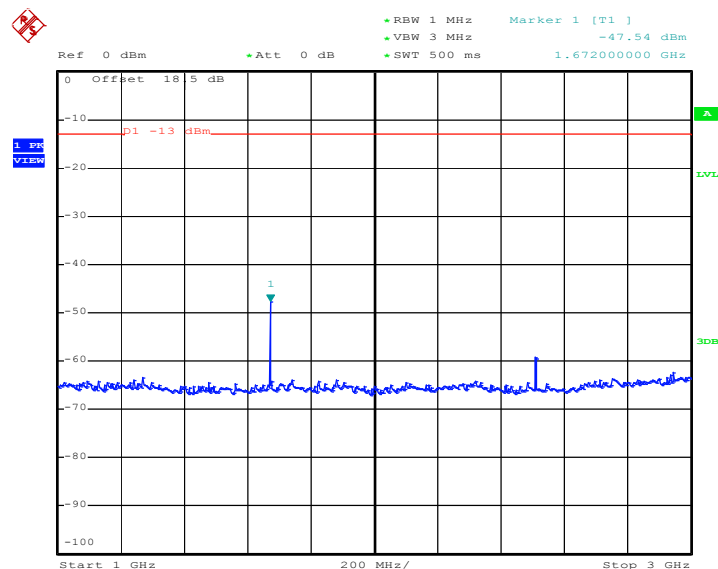
Conducted Emission Plot between 7GHz ~ 9GHz



Band :	GSM850	Channel :	CH189
Test Mode :	EDGE 8 Link		

Conducted Emission Plot between 30MHz ~ 1GHz


Date: 9.DEC.2011 10:01:32

Conducted Emission Plot between 1GHz ~ 3GHz


Date: 9.DEC.2011 10:01:49



• RBW 1 MHz Marker 1 [T1] -52.09 dBm
 • VBW 3 MHz
 • Att 0 dB • SWT 500 ms 3.52000000 GHz

Ref 0 dBm 0 Offset 23 dB

1.79%
 VIEW

0 dBm
 -10
 -20
 -30
 -40
 -50
 -60
 -70
 -80
 -90
 -100

0 Offset 23 dB

P1 -13 dBm

1

Start 3 GHz 400 MHz/ Stop 7 GHz

Date: 9.DEC.2011 10:02:02

• RBW 1 MHz Marker 1 [T1]
 • VBW 3 MHz -48.37 dBm
 • Att 0 dB 8.15600000 GHz
 • SWT 500 ms

Ref 0 dBm 0 dB

0 Offset 25 dB

-10 dBm

1.9% VIEW

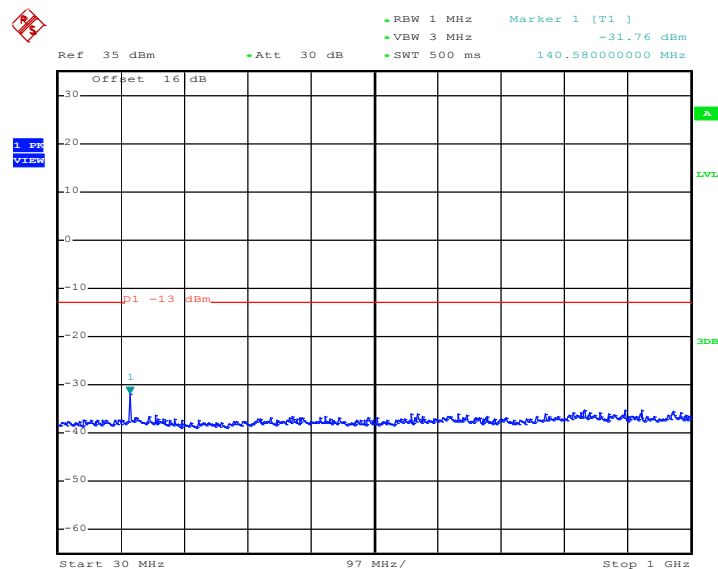
1

Start 7 GHz 200 MHz/ Stop 9 GHz

Date: 9.DEC.2011 10:02:14

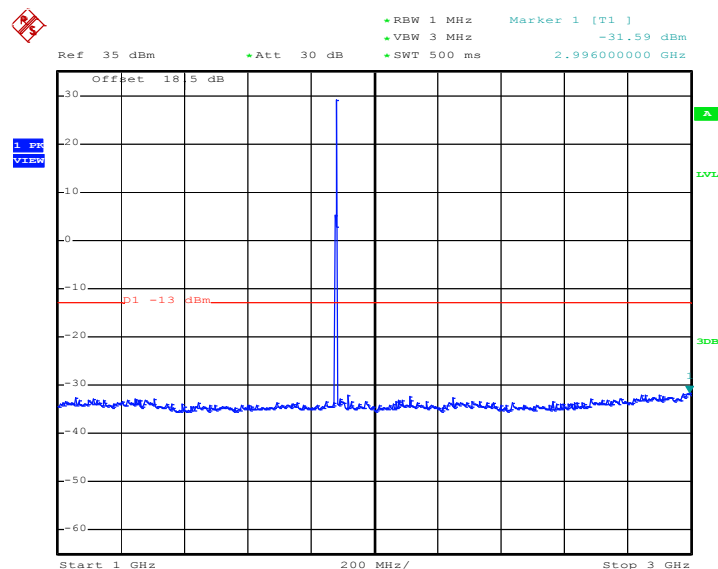
Band :	GSM1900	Channel :	CH661
Test Mode :	GSM Link		

Conducted Emission Plot between 30MHz ~ 1GHz



Date: 9.DEC.2011 10:12:00

Conducted Emission Plot between 1GHz ~ 3GHz



Date: 9.DEC.2011 10:12:13



The screenshot shows a Spectrum Analyzer interface. The top status bar displays the following parameters:

- RBW: 1 MHz
- VBW: 3 MHz
- SWT: 500 ms
- Marker 1 [T1]: -50.64 dBm
- Frequency: 5.64000000 GHz

The main display area shows a spectrum plot with a blue trace representing the signal. The vertical axis (Y-axis) is labeled "Offset 23 dB" and ranges from -100 to 0 dB. The horizontal axis (X-axis) is labeled "Start 3 GHz", "400 MHz/", and "Stop 7 GHz". A red horizontal line is drawn at -13 dBm, labeled "P1 -13 dBm". A small green peak is visible at 5.64 GHz, labeled "1".

Date: 9.DEC.2011 10:12:33

• RBW 1 MHz Marker 1 [T1]
 • VBW 3 MHz -42.92 dBm
 • Att 0 dB 10.22080000 GHz
 • SWT 500 ms

Ref 0 dBm Offset 30.2 dB

1.9%
VIEW

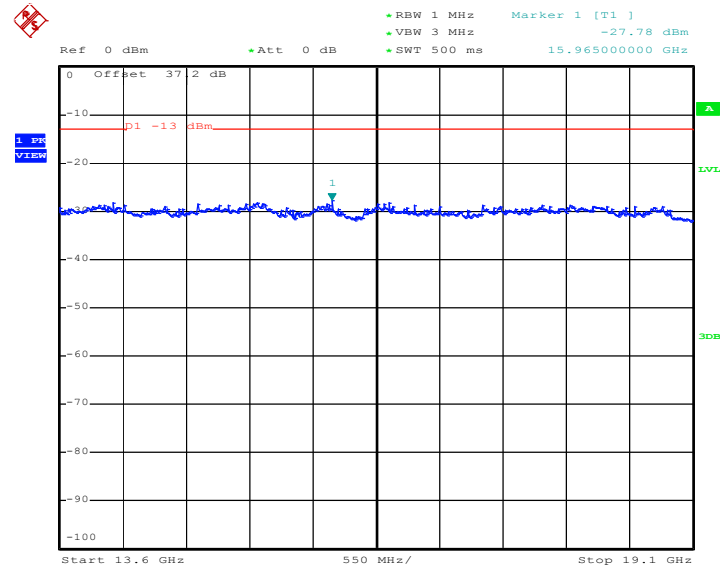
0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100

Start 7 GHz 660 MHz/ Stop 13.6 GHz

Date: 9.DEC.2011 10:12:45



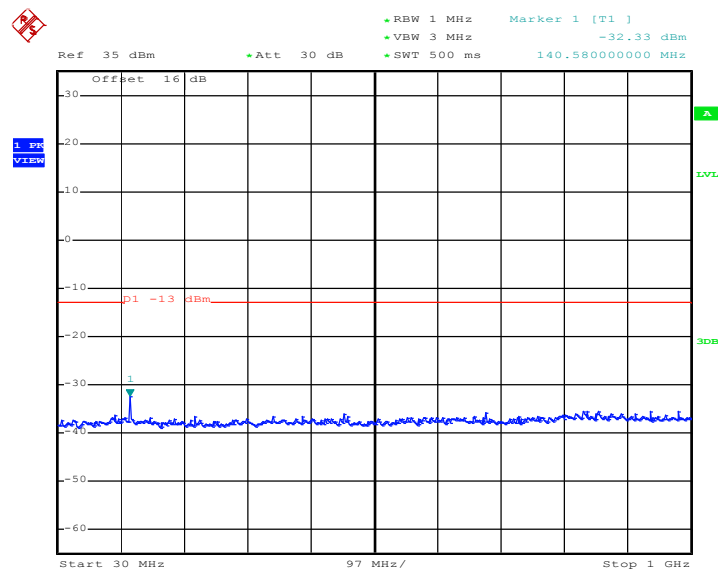
Conducted Emission Plot between 13.6GHz ~ 19.1GHz



Date: 9.DEC.2011 10:12:58

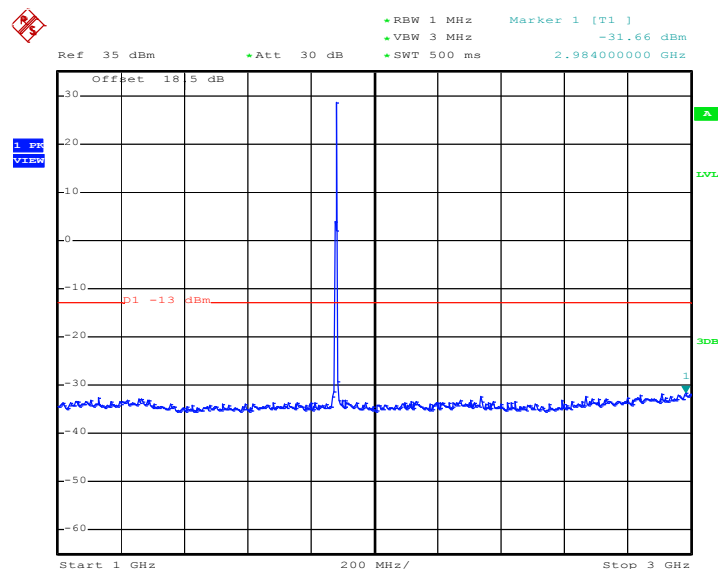
Band :	GSM1900	Channel :	CH661
Test Mode :	EDGE 8 Link		

Conducted Emission Plot between 30MHz ~ 1GHz



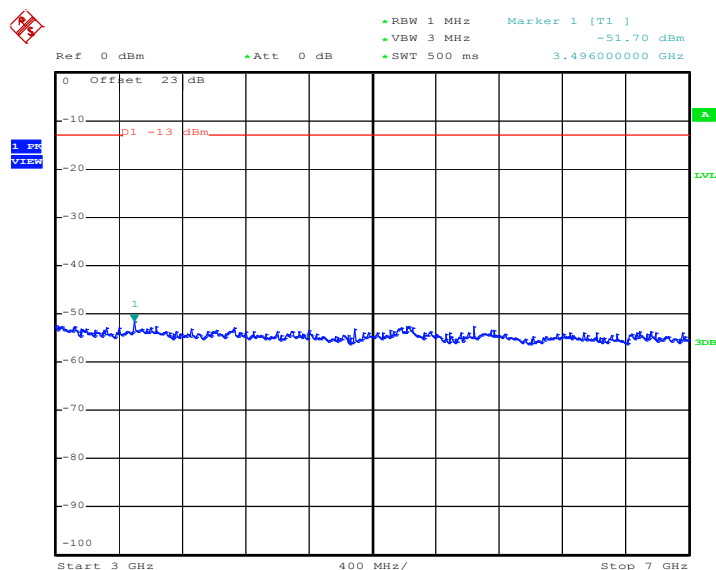
Date: 9.DEC.2011 10:29:30

Conducted Emission Plot between 1GHz ~ 3GHz



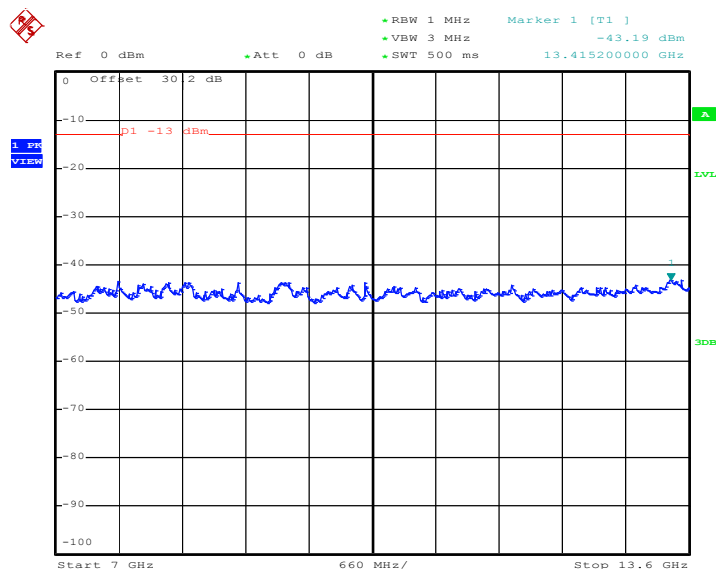
Date: 9.DEC.2011 10:29:42

Conducted Emission Plot between 3GHz ~ 7GHz



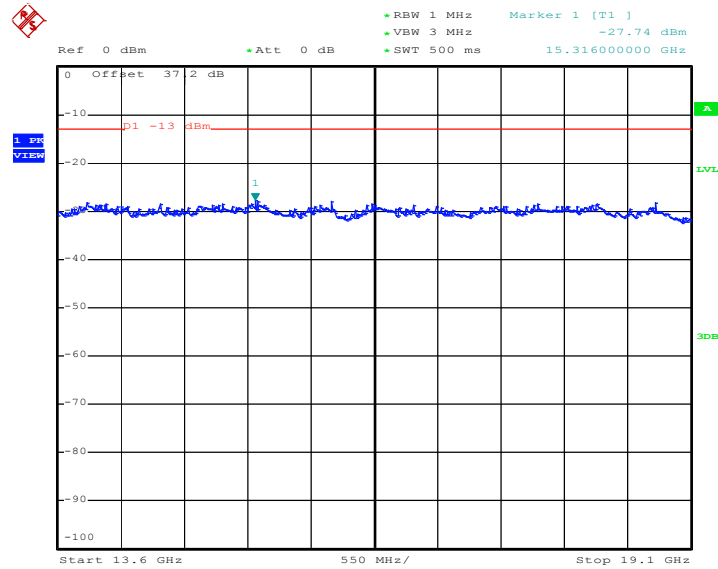
Date: 9.DEC.2011 10:30:32

Conducted Emission Plot between 7GHz ~ 13.6GHz



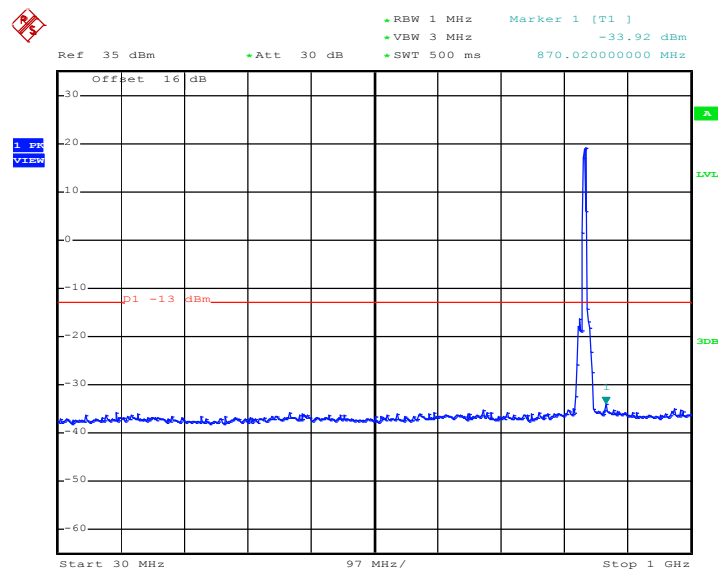
Date: 9.DEC.2011 10:30:45

Conducted Emission Plot between 13.6GHz ~ 19.1GHz

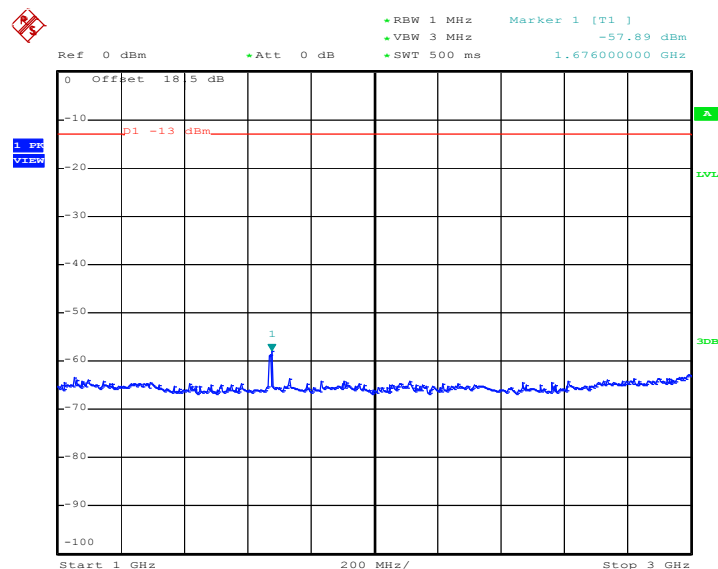


Date: 9.DEC.2011 10:30:57

Band :	WCDMA Band V	Channel :	CH4182
Test Mode :	RMC 12.2Kbps Link		

Conducted Emission Plot between 30MHz ~ 1GHz


Date: 9.DEC.2011 11:10:04

Conducted Emission Plot between 1GHz ~ 3GHz


Date: 9.DEC.2011 11:11:55



Conducted Emission Plot between 7GHz ~ 9GHz



3.6 Field Strength of Spurious Radiation Measurement

3.6.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

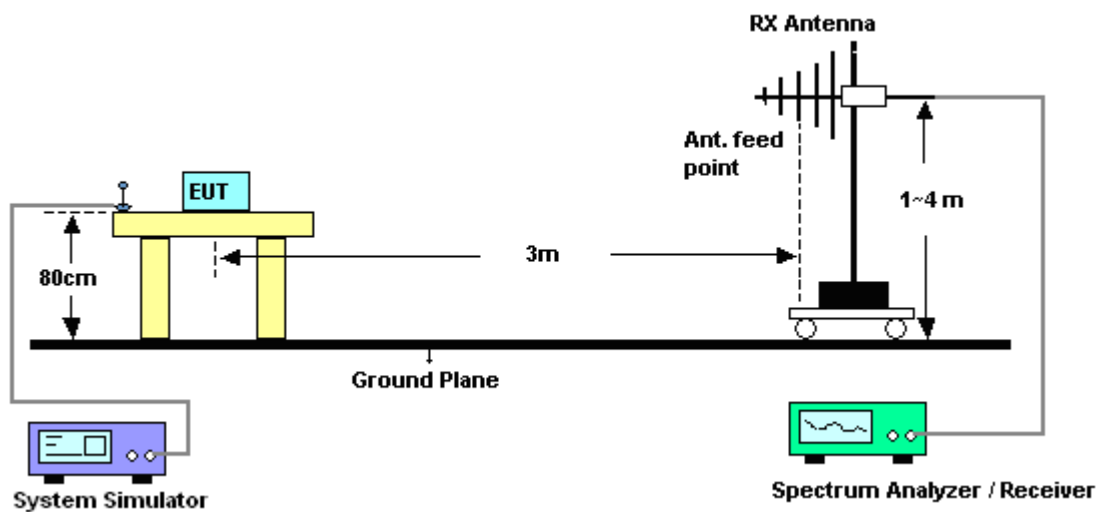
3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

3.6.3 Test Procedures

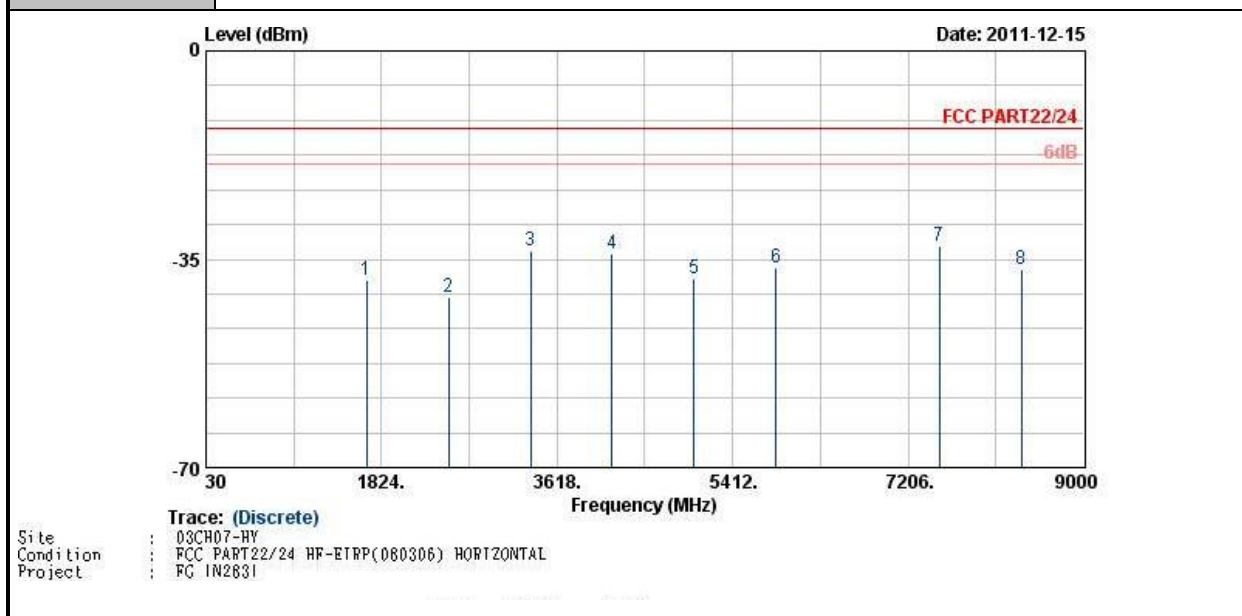
1. The EUT was placed on a rotatable wooden table with 0.8 meter about ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$

3.6.4 Test Setup



3.6.5 Test Result of Field Strength of Spurious Radiated

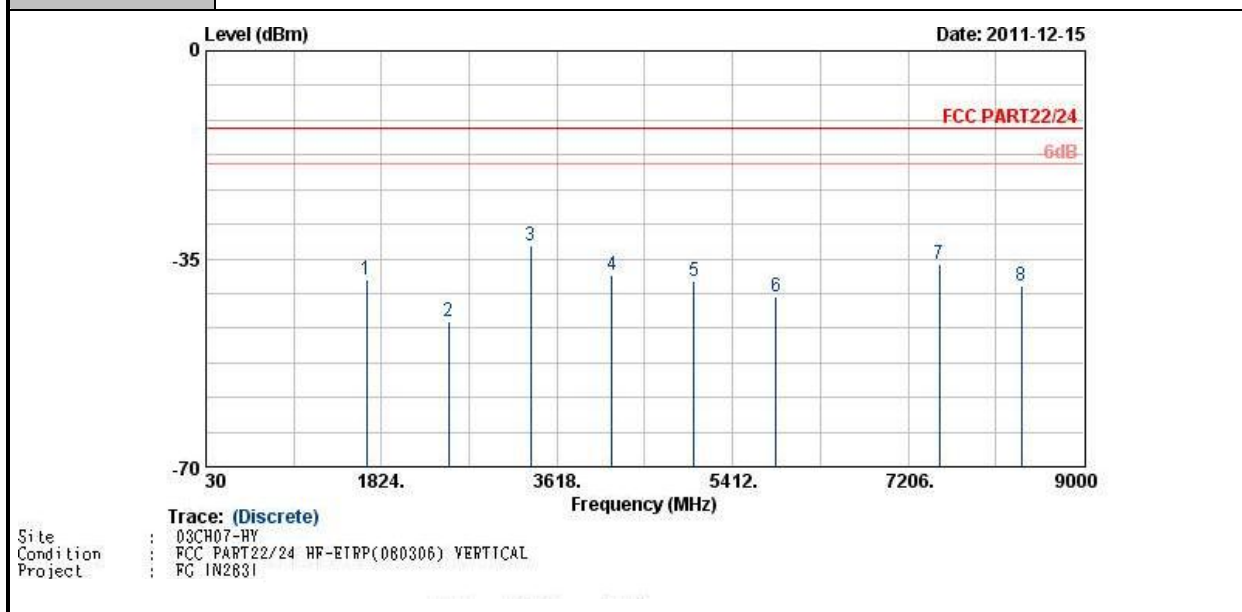
Band :	GSM850	Temperature :	23~24°C
Test Mode :	GPRS 8 Link	Relative Humidity :	43~44%
Test Engineer :	Gavin Wu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-38.51	-13	-25.51	-49.68	-40.23	1.62	5.49	H	Pass
2509	-41.44	-13	-28.44	-55.85	-43.41	2.1	6.22	H	Pass
3345	-33.69	-13	-20.69	-48.28	-36.58	3.03	8.07	H	Pass
4182	-34.11	-13	-21.11	-50.26	-38.65	2.52	9.21	H	Pass
5018	-38.29	-13	-25.29	-56.67	-43.74	3.1	10.70	H	Pass
5854	-36.38	-13	-23.38	-57.96	-41.62	2.92	10.31	H	Pass
7527	-32.66	-13	-19.66	-59.87	-39.11	3.52	12.12	H	Pass
8364	-36.82	-13	-23.82	-61.56	-43.66	3.95	12.94	H	Pass



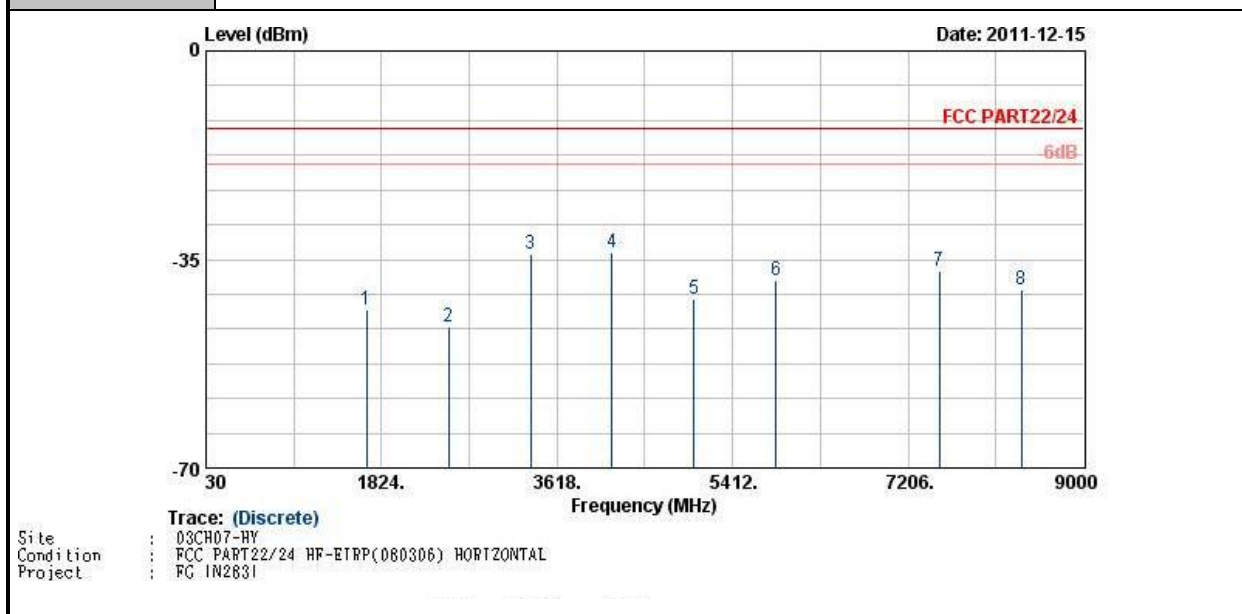
Band :	GSM850	Temperature :	23~24°C
Test Mode :	GPRS 8 Link	Relative Humidity :	43~44%
Test Engineer :	Gavin Wu	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-38.40	-13	-25.40	-51.31	-40.12	1.62	5.49	V	Pass
2509	-45.54	-13	-32.54	-59.31	-47.51	2.1	6.22	V	Pass
3345	-32.74	-13	-19.74	-49.57	-35.63	3.03	8.07	V	Pass
4182	-37.77	-13	-24.77	-55.57	-42.31	2.52	9.21	V	Pass
5018	-38.71	-13	-25.71	-57.88	-44.16	3.1	10.70	V	Pass
5854	-41.34	-13	-28.34	-62.89	-46.58	2.92	10.31	V	Pass
7527	-35.82	-13	-22.82	-63.21	-42.27	3.52	12.12	V	Pass
8364	-39.47	-13	-26.47	-63.86	-46.31	3.95	12.94	V	Pass



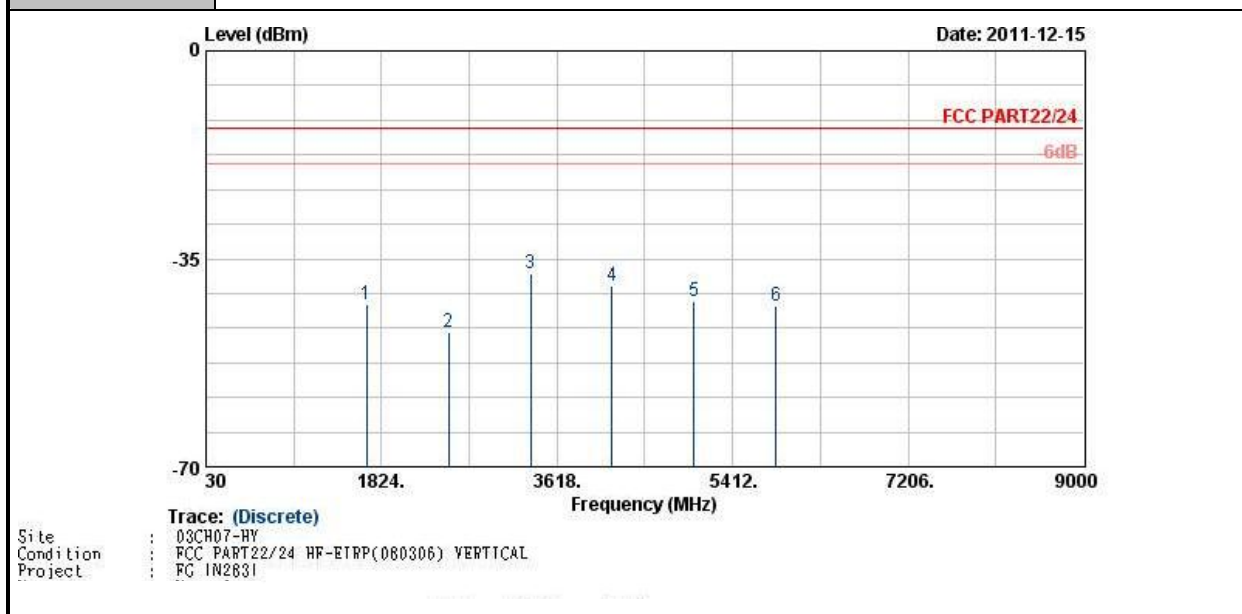
Band :	GSM850	Temperature :	23~24°C
Test Mode :	EDGE 8 Link	Relative Humidity :	43~44%
Test Engineer :	Gavin Wu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-43.49	-13	-30.49	-53.13	-45.21	1.62	5.49	H	Pass
2509	-46.35	-13	-33.35	-59.62	-48.32	2.1	6.22	H	Pass
3345	-33.99	-13	-20.99	-48.19	-36.88	3.03	8.07	H	Pass
4182	-33.74	-13	-20.74	-50.34	-38.28	2.52	9.21	H	Pass
5018	-41.76	-13	-28.76	-59.71	-47.21	3.1	10.70	H	Pass
5854	-38.39	-13	-25.39	-59.7	-43.63	2.92	10.31	H	Pass
7527	-36.83	-13	-23.83	-64.39	-43.28	3.52	12.12	H	Pass
8364	-40.07	-13	-27.07	-65	-46.91	3.95	12.94	H	Pass

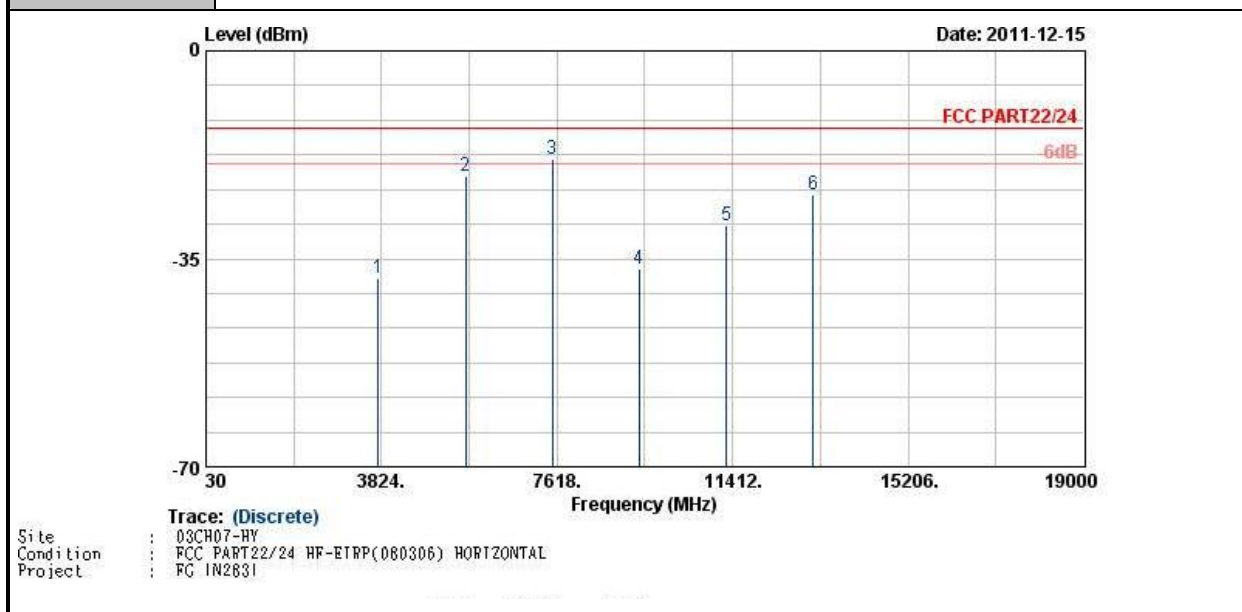


Band :	GSM850	Temperature :	23~24°C
Test Mode :	EDGE 8 Link	Relative Humidity :	43~44%
Test Engineer :	Gavin Wu	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



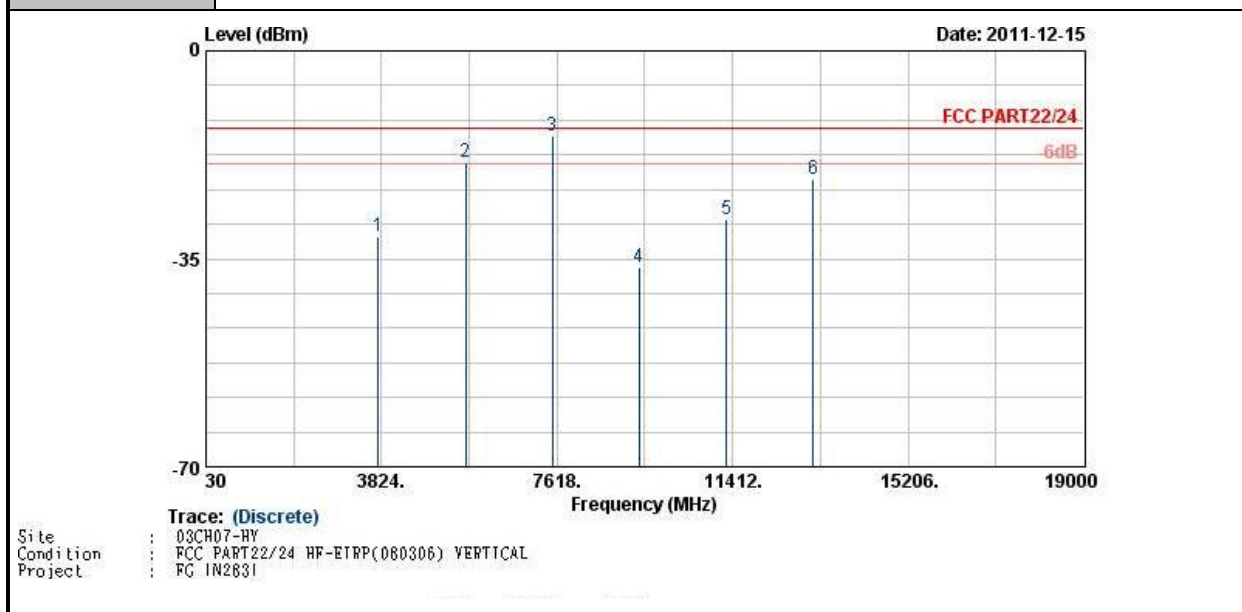
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-42.80	-13	-29.80	-54.82	-44.52	1.62	5.49	V	Pass
2509	-47.26	-13	-34.26	-61.79	-49.23	2.1	6.22	V	Pass
3345	-37.46	-13	-24.46	-54.12	-40.35	3.03	8.07	V	Pass
4182	-39.57	-13	-26.57	-56.57	-44.11	2.52	9.21	V	Pass
5018	-42.16	-13	-29.16	-60.45	-47.61	3.1	10.70	V	Pass
5854	-43.02	-13	-30.02	-64.78	-48.26	2.92	10.31	V	Pass

Band :	GSM1900	Temperature :	23~24°C
Test Mode :	GSM Link	Relative Humidity :	43~44%
Test Engineer :	Gavin Wu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



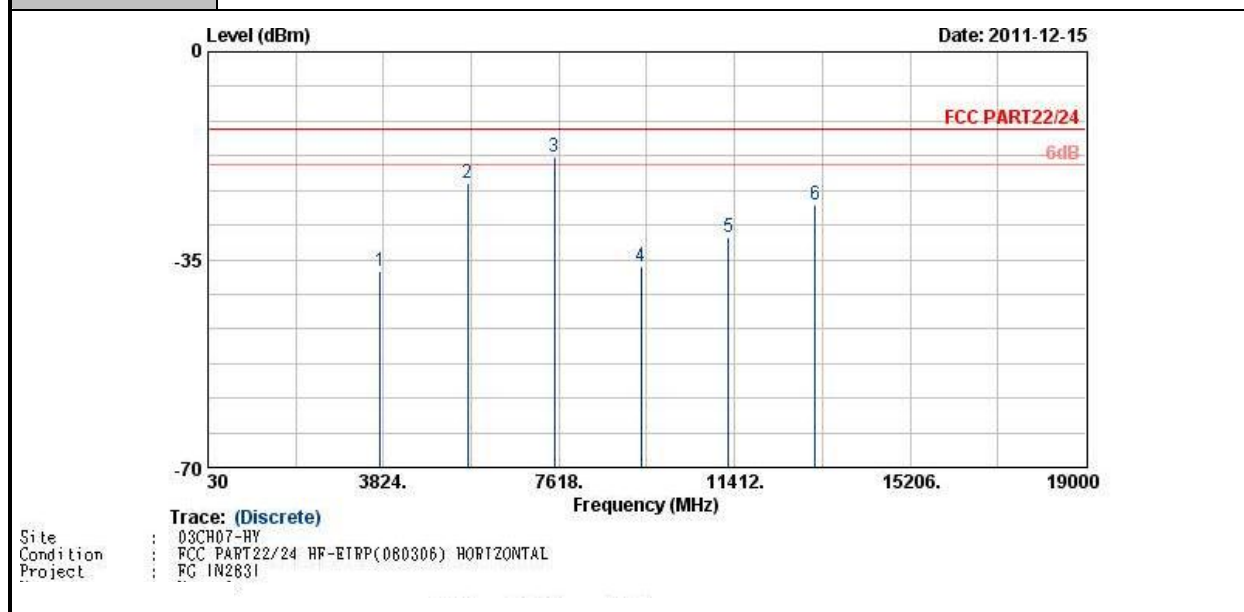
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-38.33	-13	-25.33	-53.28	-44.63	2.51	8.81	H	Pass
5636	-21.20	-13	-8.20	-41.52	-28.91	2.99	10.70	H	Pass
7520	-18.15	-13	-5.15	-43.44	-26.68	3.59	12.12	H	Pass
9396	-36.58	-13	-23.58	-63.2	-45.68	4.1	13.20	H	Pass
11280	-29.41	-13	-16.41	-58.35	-38.45	4.27	13.31	H	Pass
13160	-24.22	-13	-11.22	-57	-33.74	4.27	13.79	H	Pass

Band :	GSM1900	Temperature :	23~24°C
Test Mode :	GSM Link	Relative Humidity :	43~44%
Test Engineer :	Gavin Wu	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-31.31	-13	-18.31	-47.56	-37.61	2.51	8.81	V	Pass
5636	-18.73	-13	-5.73	-40.19	-26.44	2.99	10.70	V	Pass
7520	-14.29	-13	-1.29	-42.51	-22.82	3.59	12.12	V	Pass
9396	-36.34	-13	-23.34	-63.68	-45.44	4.1	13.20	V	Pass
11280	-28.32	-13	-15.32	-57.72	-37.36	4.27	13.31	V	Pass
13160	-21.63	-13	-8.63	-53.31	-31.15	4.27	13.79	V	Pass

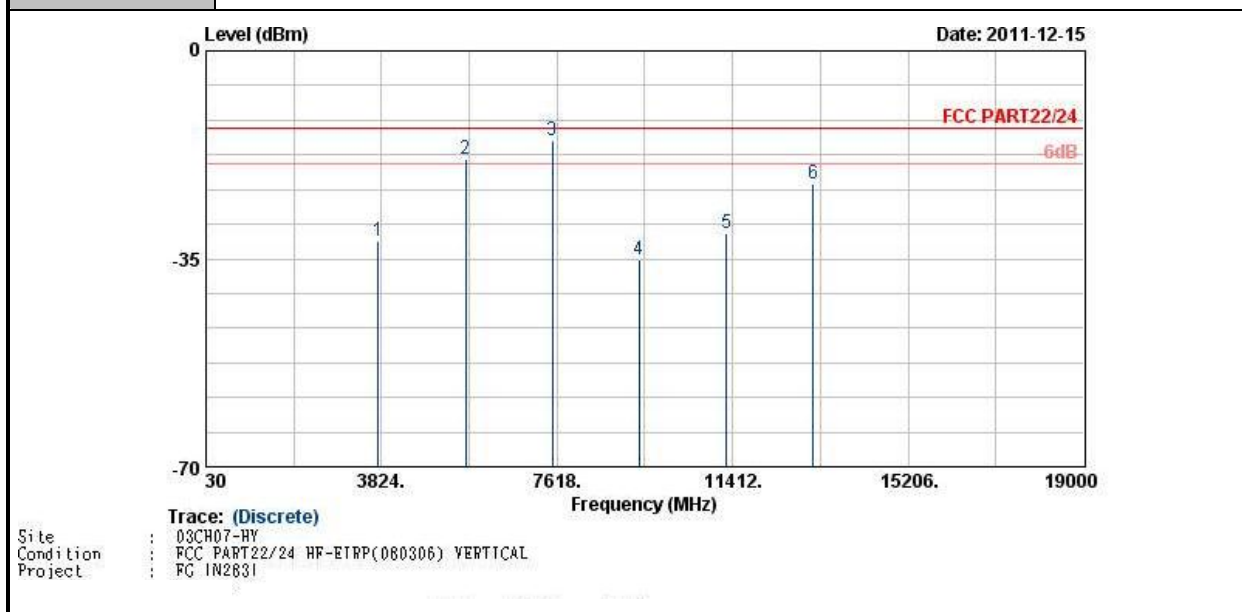
Band :	GSM1900	Temperature :	23~24°C
Test Mode :	EDGE 8 Link	Relative Humidity :	43~44%
Test Engineer :	Gavin Wu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-36.96	-13	-23.96	-52.05	-43.26	2.51	8.81	H	Pass
5636	-22.03	-13	-9.03	-42.78	-29.74	2.99	10.70	H	Pass
7520	-17.63	-13	-4.63	-45.14	-26.16	3.59	12.12	H	Pass
9396	-36.13	-13	-23.13	-62.88	-45.23	4.1	13.20	H	Pass
11280	-31.32	-13	-18.32	-60.79	-40.36	4.27	13.31	H	Pass
13160	-25.75	-13	-12.75	-60.4	-35.27	4.27	13.79	H	Pass

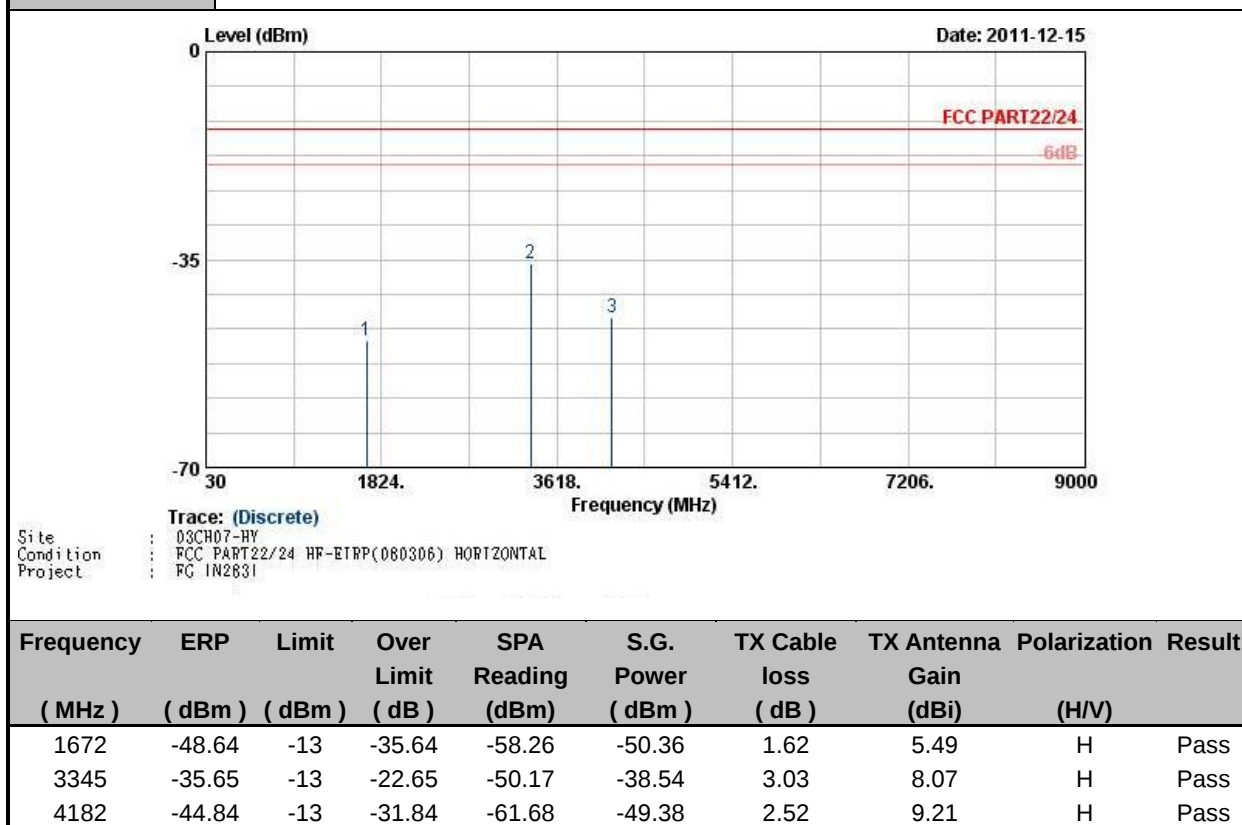


Band :	GSM1900	Temperature :	23~24°C
Test Mode :	EDGE 8 Link	Relative Humidity :	43~44%
Test Engineer :	Gavin Wu	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

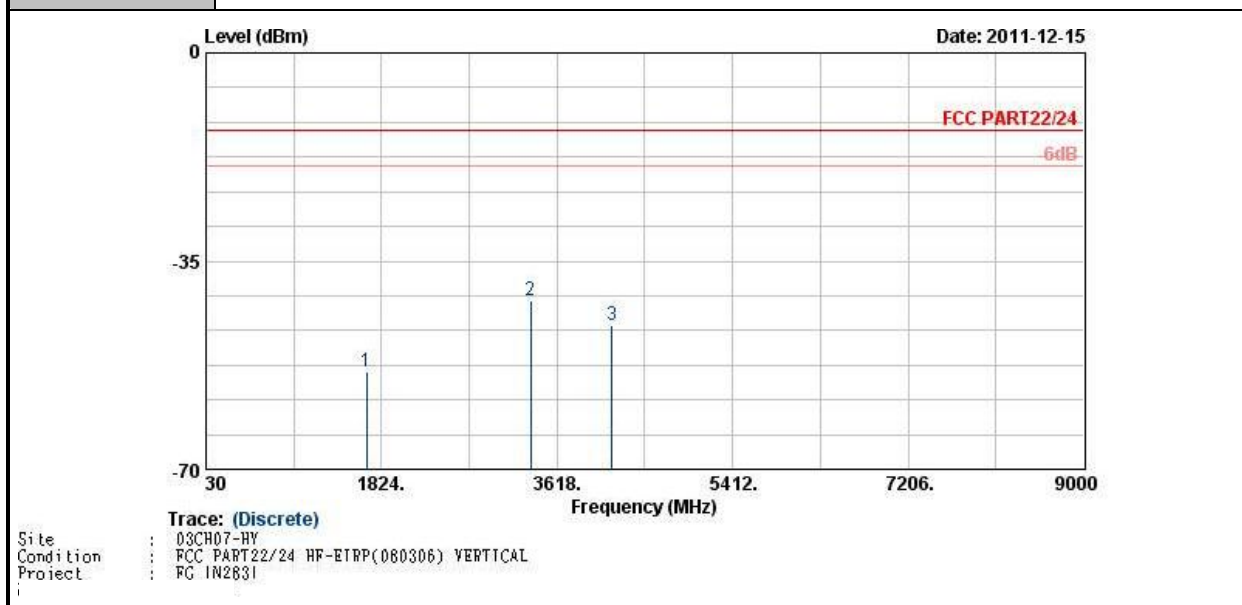


Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-31.96	-13	-18.96	-47.3	-38.26	2.51	8.81	V	Pass
5636	-18.27	-13	-5.27	-38.14	-25.98	2.99	10.70	V	Pass
7520	-15.04	-13	-2.04	-42.83	-23.57	3.59	12.12	V	Pass
9396	-35.22	-13	-22.22	-61.81	-44.32	4.1	13.20	V	Pass
11280	-30.81	-13	-17.81	-58.88	-39.85	4.27	13.31	V	Pass
13160	-22.44	-13	-9.44	-54.15	-31.96	4.27	13.79	V	Pass

Band :	WCDMA Band V	Temperature :	23~24°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	43~44%
Test Engineer :	Gavin Wu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Band :	WCDMA Band V	Temperature :	23~24°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	43~44%
Test Engineer :	Gavin Wu	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-53.49	-13	-40.49	-64.63	-55.21	1.62	5.49	V	Pass
3345	-41.68	-13	-28.68	-57.85	-44.57	3.03	8.07	V	Pass
4182	-45.88	-13	-32.88	-63.96	-50.42	2.52	9.21	V	Pass

3.7 Frequency Stability Measurement

3.7.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.7.2 Measuring Instruments

See list of measuring instruments of this test report.

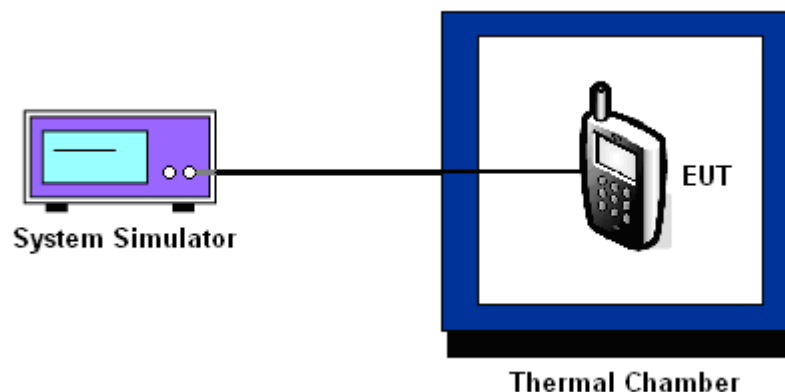
3.7.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the base station.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.
4. If the EUT cannot be turned on at -30°C , the testing lowest temperature will be raised in 10°C step until the EUT can be turned on.

3.7.4 Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at $25\pm 5^{\circ}\text{C}$ and connected with the base station.
2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

3.7.5 Test Setup



3.7.6 Test Result of Temperature Variation

Band :	GSM 850	Channel :	189
Limit (ppm) :	2.5		

Temperature (°C)	GPRS 8		EDGE 8		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	N/A	N/A	N/A	N/A	PASS
-20	N/A	N/A	N/A	N/A	
-10	-37	-0.04	-17	-0.02	
0	-46	-0.05	-19	-0.02	
10	-25	-0.03	-14	-0.02	
20	-21	-0.02	-21	-0.02	
30	-42	-0.05	-25	-0.03	
40	-21	-0.02	-12	-0.01	
50	-30	-0.04	-26	-0.03	

Note: The manufacturer declared that the EUT could work properly between temperatures -10°C~50°C.

Band :	GSM 1900	Channel :	661
Limit (ppm) :	2.5		

Temperature (°C)	GSM		EDGE 8		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	N/A	N/A	N/A	N/A	PASS
-20	N/A	N/A	N/A	N/A	
-10	-49	-0.03	-30	-0.02	
0	-55	-0.03	-27	-0.01	
10	-37	-0.02	-24	-0.01	
20	-52	-0.03	-42	-0.02	
30	-64	-0.03	-54	-0.03	
40	-33	-0.02	-22	-0.01	
50	-58	-0.03	-34	-0.02	

Note: The manufacturer declared that the EUT could work properly between temperatures -10°C~50°C.

Band :	WCDMA Band V	Channel :	4182
Limit (ppm) :	2.5		

Temperature (°C)	RMC 12.2Kbps		Result
	Freq. Dev. (Hz)	Deviation (ppm)	
-30	N/A	N/A	PASS
-20	N/A	N/A	
-10	-22	-0.03	
0	-25	-0.03	
10	-15	-0.02	
20	-16	-0.02	
30	-18	-0.02	
40	-25	-0.03	
50	-12	-0.01	

Note: The manufacturer declared that the EUT could work properly between temperatures -10°C~50°C.

3.7.7 Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
GSM 850 CH189	GPRS 8	3.8	-33	-0.04	2.5	PASS
		BEP	-36	-0.04		
		4.2	-22	-0.03		
	EDGE 8	3.8	-15	-0.02		
		BEP	-21	-0.02		
		4.2	-12	-0.01		
GSM 1900 CH661	GSM	3.8	-70	-0.04		
		BEP	-72	-0.04		
		4.2	-62	-0.03		
	EDGE 8	3.8	-43	-0.02		
		BEP	-51	-0.03		
		4.2	-37	-0.02		
WCDMA Band V CH4182	RMC 12.2Kbps	3.8	-23	-0.03		
		BEP	-19	-0.02		
		4.2	-21	-0.02		

Note:

1. Normal Voltage = 3.8V.
2. Battery End Point (BEP) = 3.5 V.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
System Simulator	R&S	CMU200	117995	N/A	Jul. 28, 2011	Dec. 09, 2011	Jul. 27, 2012	Conducted (TH02-HY)
Spectrum Analyzer	R&S	FSP40	100055	9kHz~40GHz	Jun. 13, 2011	Dec. 09, 2011	Jun. 12, 2012	Conducted (TH02-HY)
Thermal Chamber	Ten Billion	TTH-D35P	TBN-930701	N/A	Jul. 27, 2011	Dec. 09, 2011	Jul. 26, 2012	Conducted (TH02-HY)
Bilog Antenna	SCHAFFNER	CBL6111C	2726	30MHz ~ 1GHz	Oct. 22, 2011	Dec. 15, 2011~ Dec. 18, 2011	Oct. 21, 2012	Radiation (03CH07-HY)
Spectrum Analyzer	R&S	FSP30	101067	9KHz ~ 30GHz	Dec. 06, 2011	Dec. 15, 2011~ Dec. 18, 2011	Dec. 05, 2012	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 10, 2011	Dec. 15, 2011~ Dec. 18, 2011	Aug. 09, 2012	Radiation (03CH07-HY)
Pre Amplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Dec. 05, 2011	Dec. 15, 2011~ Dec. 18, 2011	Dec. 04, 2012	Radiation (03CH07-HY)
Pre Amplifier	COM-POWER	PA-103A	161241	10-1000MHz.32dB. GAIN	Mar. 29, 2011	Dec. 15, 2011~ Dec. 18, 2011	Mar. 28, 2012	Radiation (03CH07-HY)
EMI TEST RECEIVER	R&S	ESCI 7	100724	9kHz~7GHz	Aug. 22, 2011	Dec. 15, 2011~ Dec. 18, 2011	Aug. 21, 2012	Radiation (03CH07-HY)
Pre Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	159088	1GHz ~ 18GHz	Feb. 21, 2011	Dec. 15, 2011~ Dec. 18, 2011	Feb. 20, 2012	Radiation (03CH07-HY)
System Simulator	R&S	CMU200	112403	N/A	Feb. 22, 2011	Dec. 15, 2011~ Dec. 18, 2011	Feb. 21, 2012	Radiation (03CH07-HY)

5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Contribution	Uncertainty of X_i		$u(X_i)$
	dB	Probability Distribution	
Receiver Reading	0.41	Normal (k=2)	0.21
Antenna Factor Calibration	0.83	Normal (k=2)	0.42
Cable Loss Calibration	0.25	Normal (k=2)	0.13
Pre-Amplifier Gain Calibration	0.27	Normal (k=2)	0.14
RCV/SPA Specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site Imperfection	1.43	Rectangular	0.83
Mismatch	+0.39 / -0.41	U-Shape	0.28
Combined Standard Uncertainty $U_c(y)$	1.27		
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.54		

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Contribution	Uncertainty of X_i		$u(X_i)$	C_i	$C_i * u(X_i)$
	dB	Probability Distribution			
Receiver Reading	± 0.10	Normal (k=2)	0.10	1	0.10
Antenna Factor Calibration	± 1.70	Normal (k=2)	0.85	1	0.85
Cable Loss Calibration	± 0.50	Normal (k=2)	0.25	1	0.25
Receiver Correction	± 2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	± 1.50	Rectangular	0.87	1	0.87
Site Imperfection	± 2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20\log(1-\Gamma_1\Gamma_2)$	+0.34 / -0.35	U-Shape	0.244	1	0.244
Combined Standard Uncertainty $U_c(y)$	2.36				
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.72				



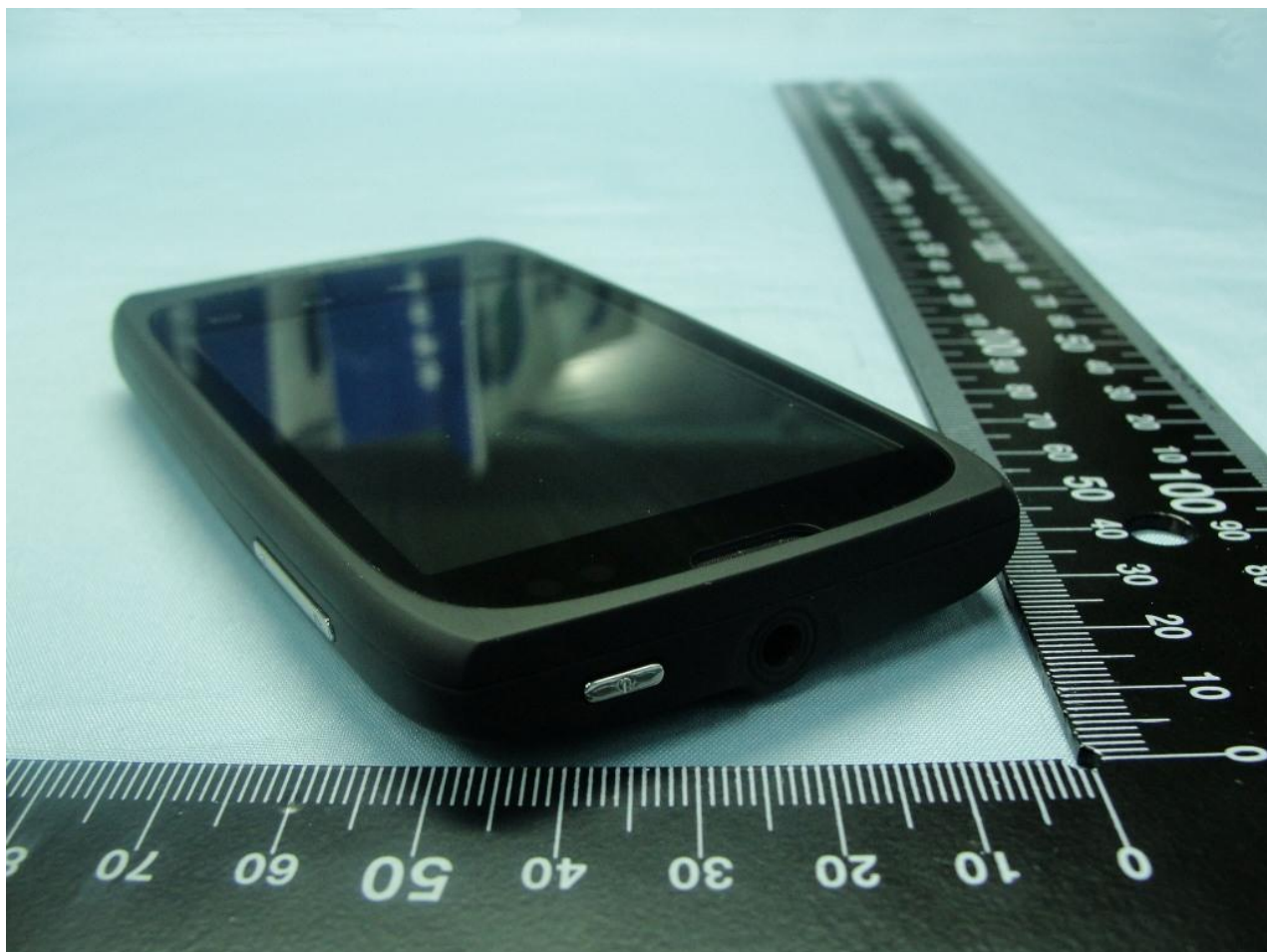
Appendix A. Photographs of EUT

Please refer to Sporton report number EP1N2831 as below.



1. External Photograph of EUT

Brand Name: ViewSonic / Model Name: VS14032





Brand Name: ViewSonic / Model Name: VS14032



**2. Photograph of Accessory****Brand Name: ViewSonic / Model Name: VS14032****List of Accessory:**

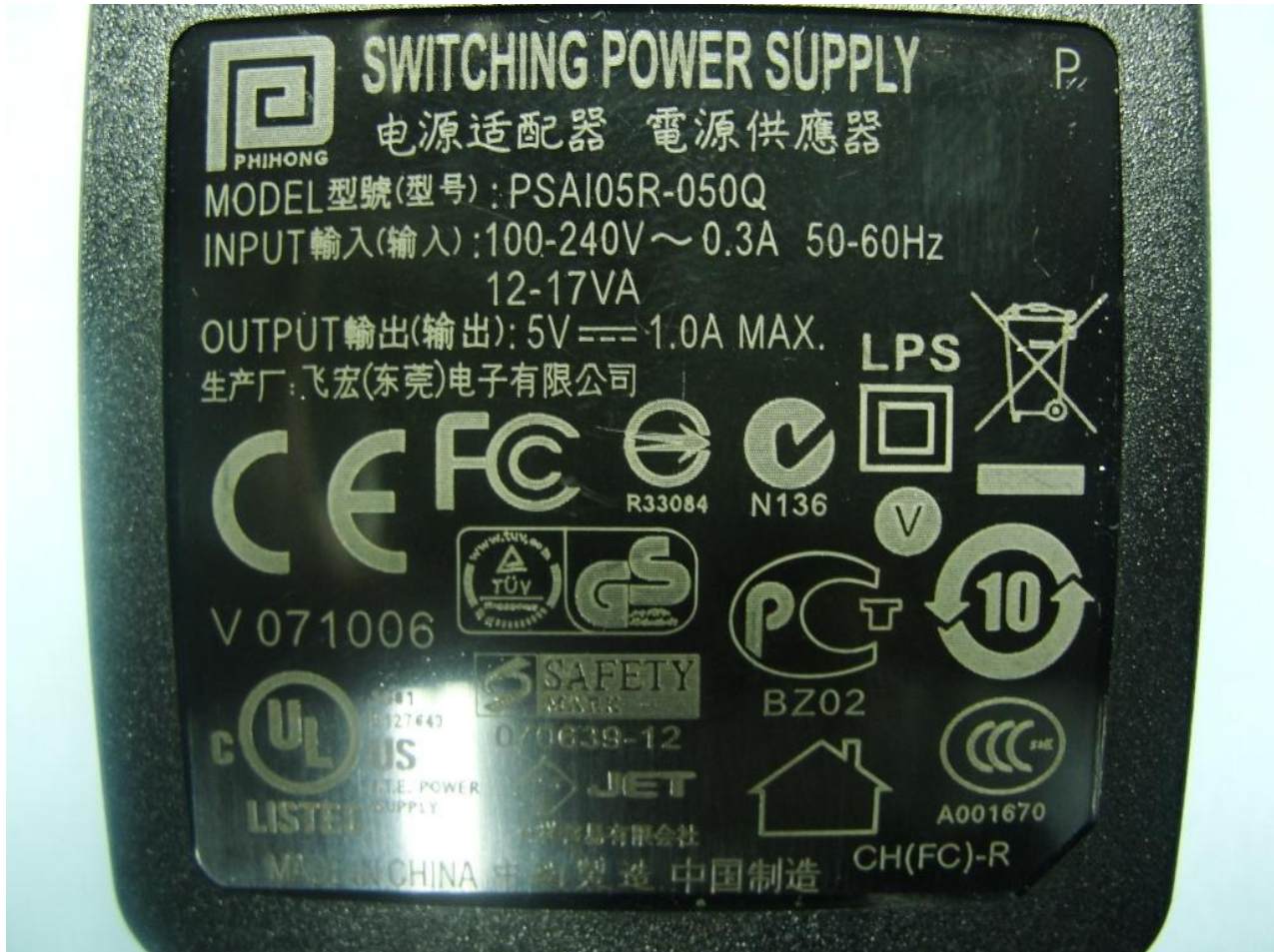
Specification of Accessory		
AC Adapter	Brand Name	PHIHONG
	Model Name	PSAI05R-050Q
Battery	Brand Name	LICO
	Model Name	HH08
Earphone	Brand Name	Fujikon
	Model Name	TDM-600-002
USB Cable	Brand Name	Hon Hai
	Model Name	CUNC004B-T19-EF
Camera 1	Brand Name	N/A
	Model Name	N/A
Camera 2	Brand Name	MCNEX
	Model Name	MC520A-2DD1T8012
LCD Panel	Brand Name	CHIMEI INNOLUX
	Model Name	PJ035MA-02A

Remark: For accessories equipped with this EUT, please refer to the following photos.

Brand Name: ViewSonic / Model Name: VS14032



Brand Name: ViewSonic / Model Name: VS14032



Brand Name: ViewSonic / Model Name: VS14032



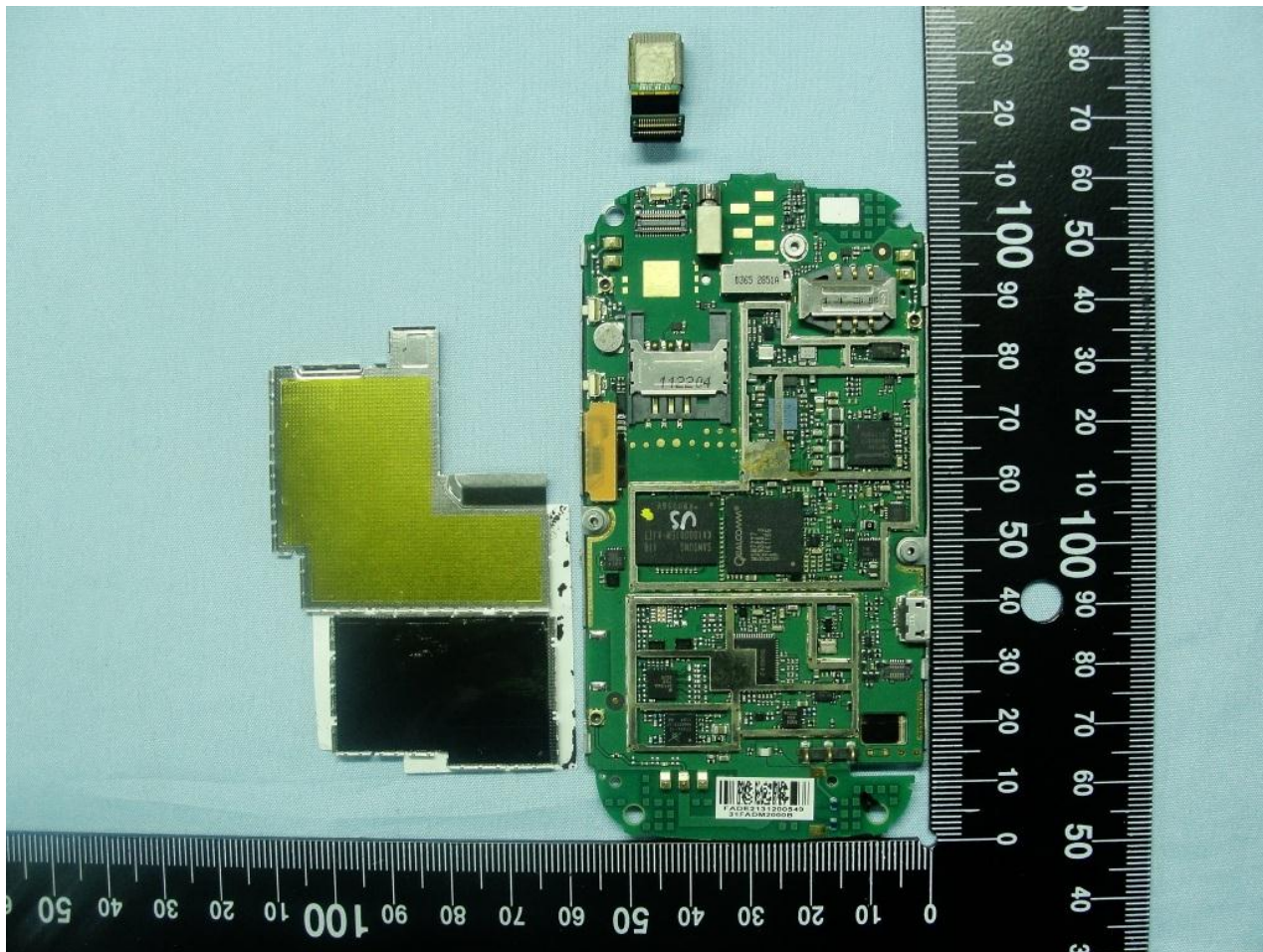
3. Internal Photograph of EUT

Brand Name: ViewSonic / Model Name: VS14032

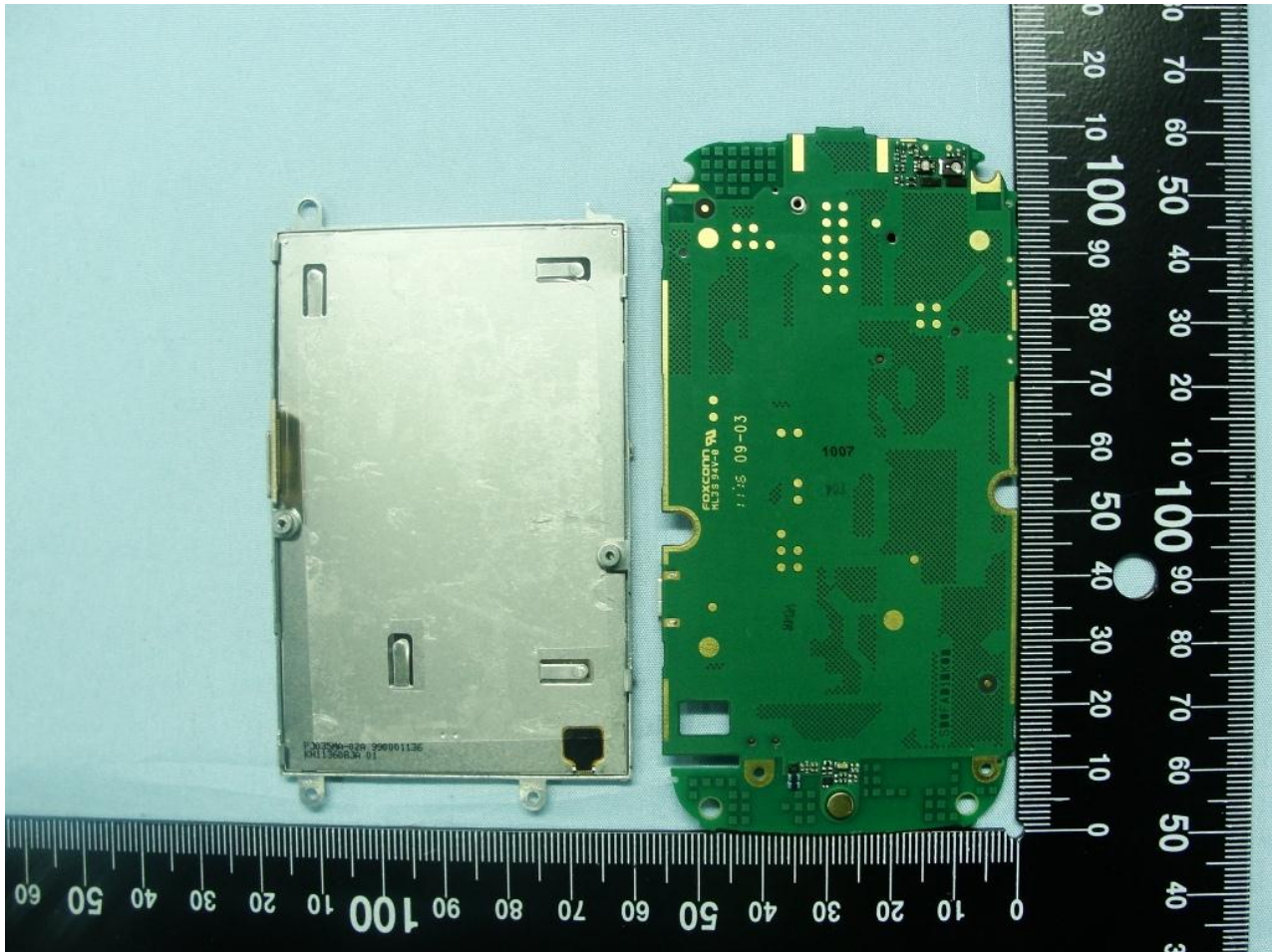




Brand Name: ViewSonic / Model Name: VS14032



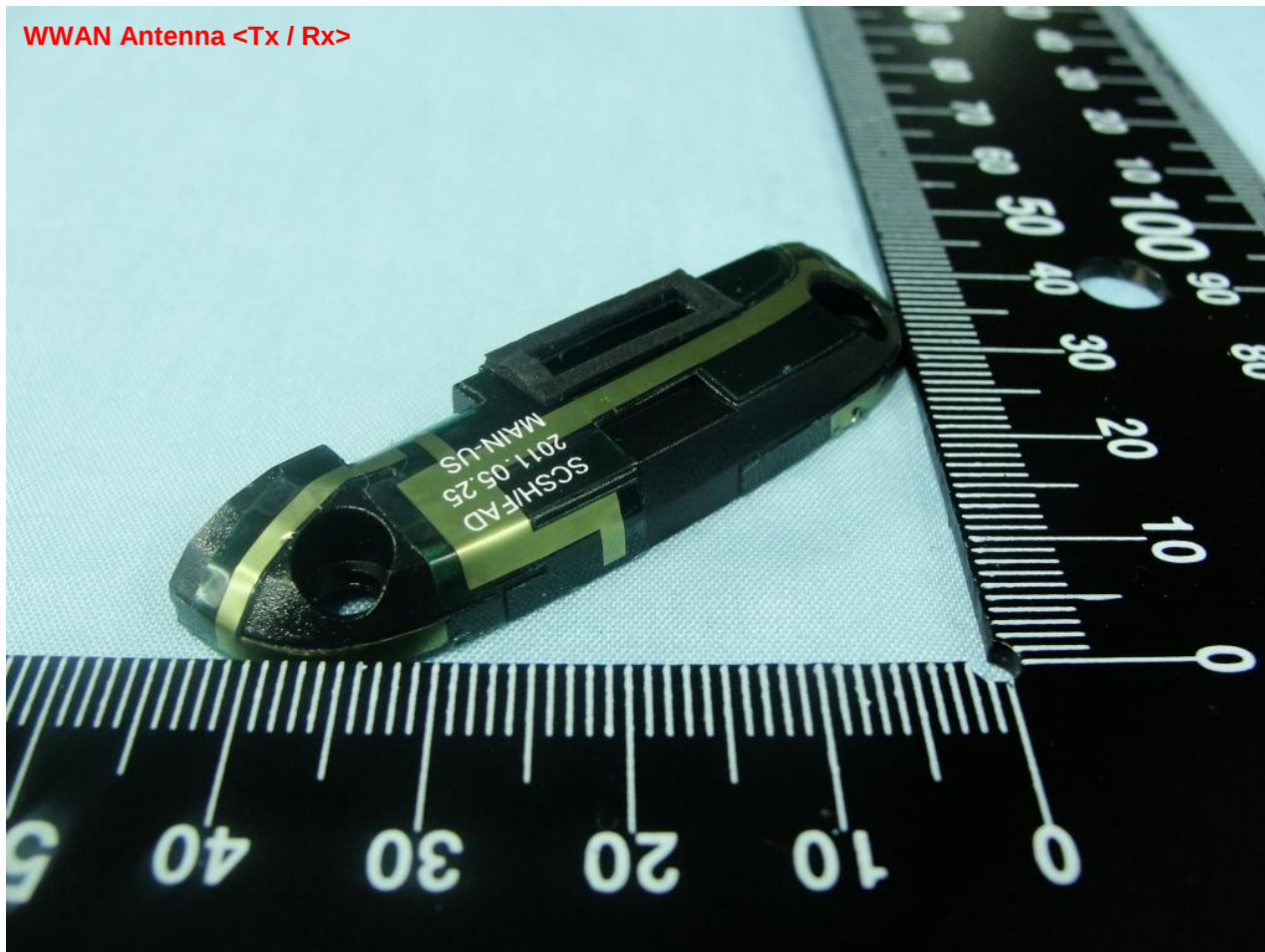
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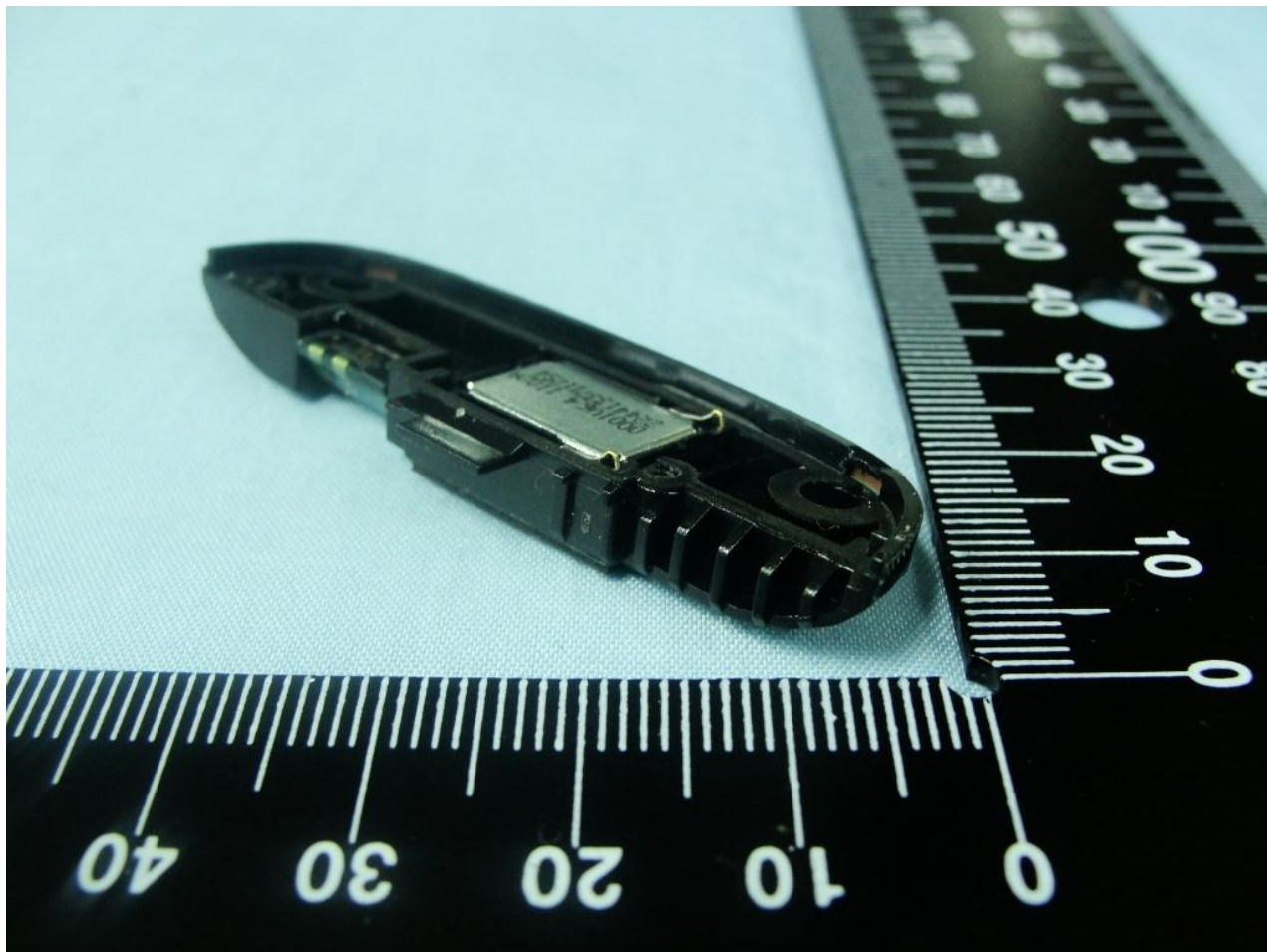


Brand Name: ViewSonic / Model Name: VS14032

WWAN Antenna <Tx / Rx>



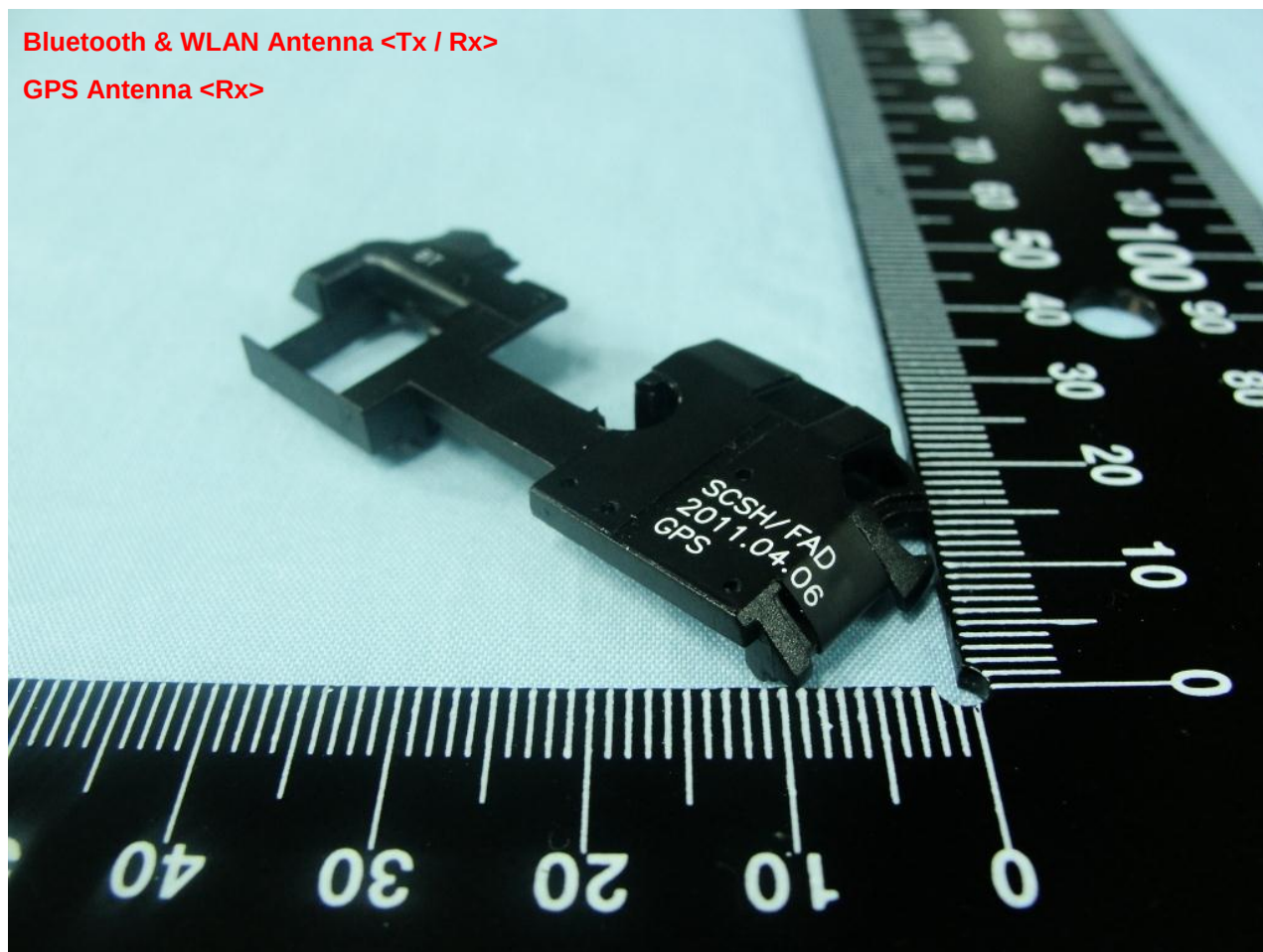
Brand Name: ViewSonic / Model Name: VS14032



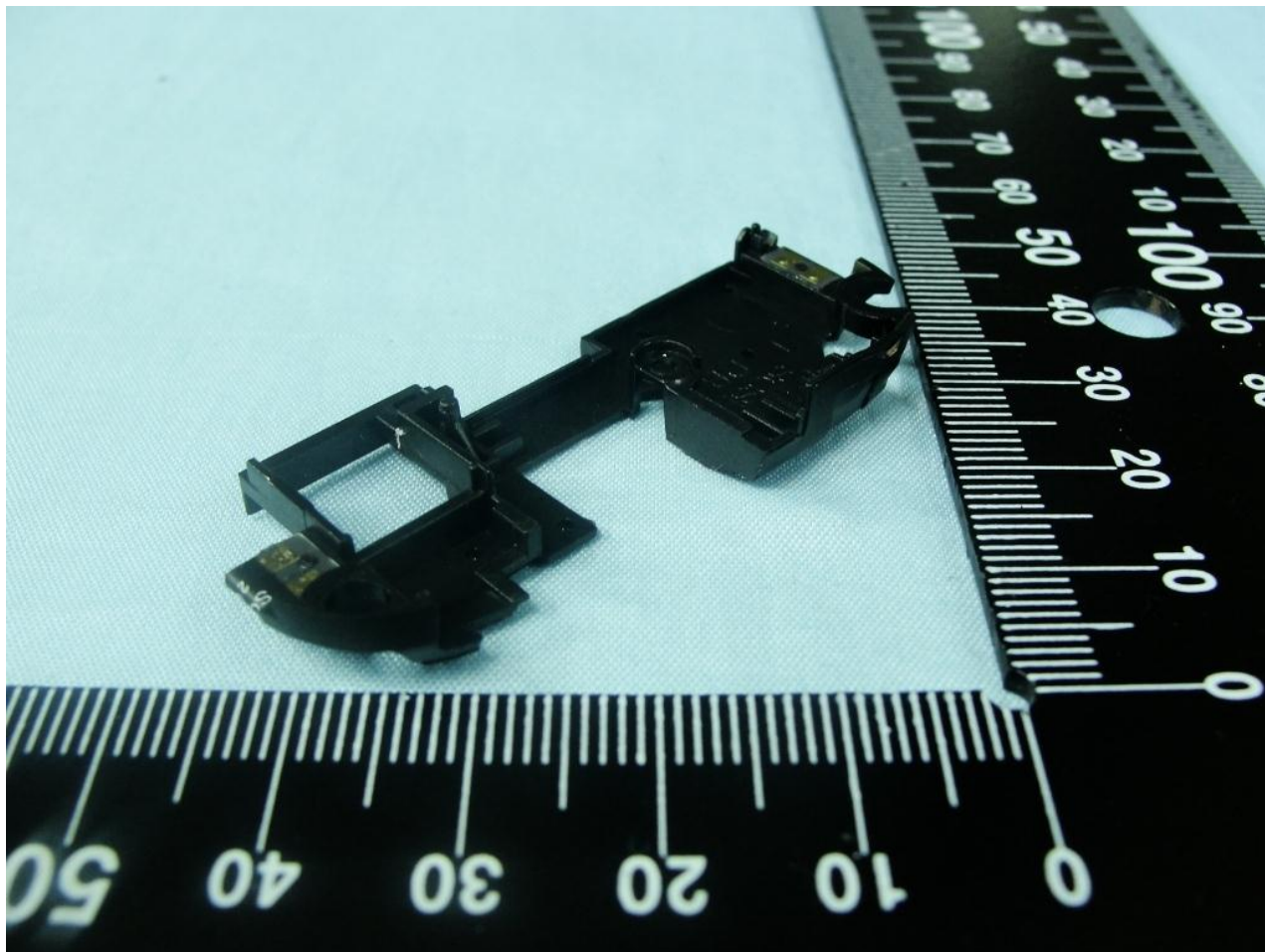
Brand Name: ViewSonic / Model Name: VS14032

Bluetooth & WLAN Antenna <Tx / Rx>

GPS Antenna <Rx>



Brand Name: ViewSonic / Model Name: VS14032



Brand Name: ViewSonic / Model Name: VS14032

Bluetooth & WLAN Antenna <Tx / Rx>



Brand Name: ViewSonic / Model Name: VS14032

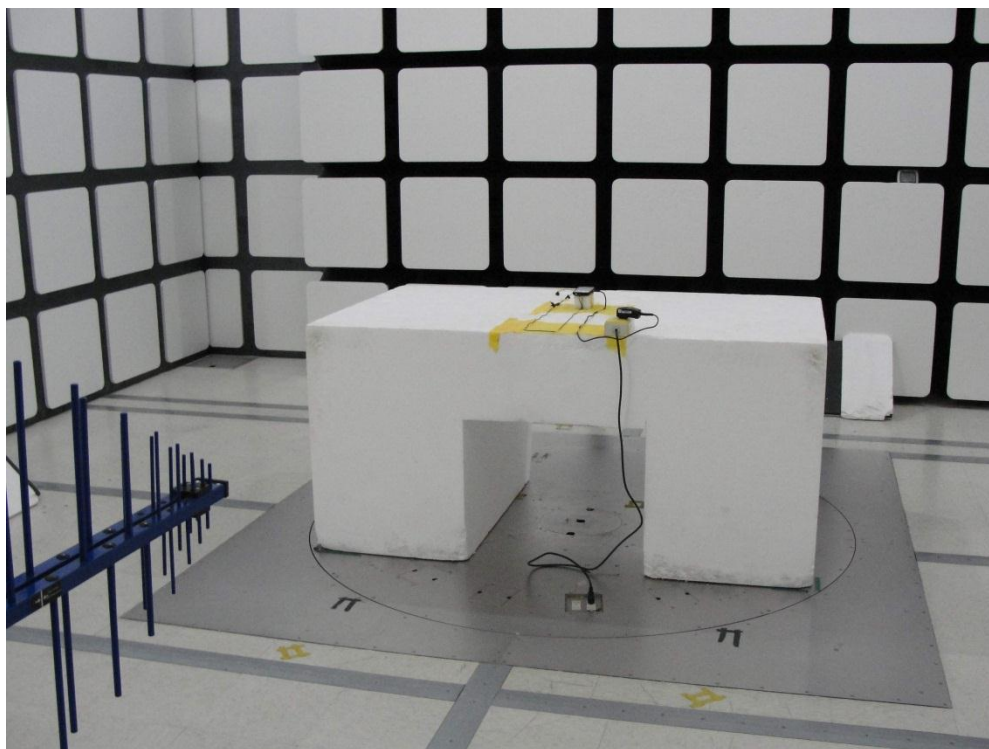
GPS Antenna <Tx / Rx>



Appendix B. Setup Photographs

<Radiated Emission>

LF



HF

