



FCC Test Report

According to

47 CFR Part 24E

Equipment : GSM(900&1800&1900 MHz) / GPRS / Mobile
Phone / with Bluetooth v1.2 and WLAN
(IEEE 802.11b&g)
Trade Name : WIN II
Model No. : DMP330
FCC ID : D6XDMP330
Tx Frequency Range : 1850.2~1909.8 MHz
Max. ERP/EIRP Power : GSM1900 : 0.87 W
Emission Designator : GSM1900 : 300KGXW
Applicant : **TECOM CO., LTD.**
23, R & D ROAD 2, SCIENCE-BASED INDUSTRIAL
PARK, HSIN-CHU, TAIWAN R.O.C.

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- **Certificate or Test Report must not be used by the applicant to claim the product in this test report endorsement by NVLAP or any agency of U.S. government.**
- The data shown in this test report were carried out on Jan. 28, 2008 at **Sporton International Inc. LAB.**
- Report No.: FG812117-B, Report Version: Rev. 01.

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Manager

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History of This Test Report

Report Issue Date: Feb. 12, 2008

Report No.	Description



1. General Information

1.1. Applicant

TECOM CO., LTD.

23, R & D ROAD 2, SCIENCE-BASED INDUSTRIAL PARK, HSIN-CHU, TAIWAN R.O.C.

1.2 Manufacturer

TECOM CO., LTD.

23, R & D ROAD 2, SCIENCE-BASED INDUSTRIAL PARK, HSIN-CHU, TAIWAN R.O.C.

1.3 Basic Description of Equipment under Test

Equipment		GSM(900&1800&1900 MHz) / GPRS / Mobile Phone / with Bluetooth v1.2 and WLAN (IEEE 802.11b&g)
Trade Name		WIN II
Model Name		DMP330
FCC ID		D6XDMP330
AC Adapter	Brand Name	Tecom
	Model Name	KWT05A11CN01G
	Power Rating	I/P:100-240Vac, 50-60Hz, 0.25A; O/P: 4.6~5.5Vdc, 550mA, 4.5W
	AC Power Cord Type	1.545 meter non-shielded cable without ferrite core
Battery	Brand Name	Tecom
	Model Name	306-0000-00001
	Power Rating	3.7Vdc, 1000mAh
	Type	Li-ion
Earphone	Brand Name	N/A
	Model Name	N/A
	Signal Line Type	1.45 meter non-shielded cable without ferrite core
USB Cable	Brand Name	N/A
	Model Name	N/A
	Signal Line Type	0.4 meter non-shielded cable without ferrite core

Remark: Above EUT's information was declared by manufacturer. Please refer to the specifications of manufacturer or User's Manual for more detailed features description.



1.4 Feature of Equipment under Test

DUT Type :	GSM(900&1800&1900 MHz) / GPRS / Mobile Phone / with Bluetooth v1.2 and WLAN (IEEE 802.11b&g)
Trade Name :	WIN II
Model Name :	DMP330
FCC ID :	D6XDMP330
Tx Frequency :	GSM1900 : 1850 ~1910 MHz Bluetooth : 2400 ~ 2483.5 MHz WLAN : 2400 ~ 2483.5 MHz
Rx Frequency :	GSM1900 : 1930 ~ 1990 MHz Bluetooth : 2400 ~ 2483.5 MHz WLAN : 2400 ~ 2483.5 MHz
Number of Channels :	Bluetooth : 79 WLAN : 11
Carrier Frequency of Each Channel :	Bluetooth : $2402+n*1$ MHz; $n=0\sim78$ WLAN : $2412+(n-1)*5$ MHz; $n=1\sim11$
Channel Spacing	GSM1900 : 200 KHz Bluetooth : 1 MHz WLAN : 5 MHz
Maximum Output Power to Antenna :	GSM1900 : 28.26 dBm (GSM) / 28.09 dBm (GPRS) Bluetooth : -1.72 dBm (1Mbps) WLAN : 15.33 dBm (802.11b) / 13.85 dBm (802.11g)
Maximum ERP/EIRP :	GSM1900 : 0.87 W (29.41 dBm)
Type of Antenna Connector	N/A
Antenna Type :	GSM1900 : Fixed Internal Antenna Bluetooth: Chip Antenna WLAN: PIFA Antenna
Antenna Gain :	GSM1900 : 0 dBi Bluetooth : 1 dBi WLAN : 1.07 dBi
HW Version :	7510MB-008-A
SW Version :	7S75100000-002-R1I
Power Rating (DC/AC , Voltage and Current of RF element or PA) :	GSM1900 : 550 mA, 5.2V
Type of Modulation :	GSM/GPRS : GMSK Bluetooth (1Mbps) : GFSK WLAN : DSSS / OFDM
Type of Emission :	GSM1900 : 300KGXW
DUT Stage :	Production Unit

1.5 Report Date

EUT Received : Jan. 21, 2008

Report Date : Feb. 12, 2008

2 Test Configuration of Equipment under Test

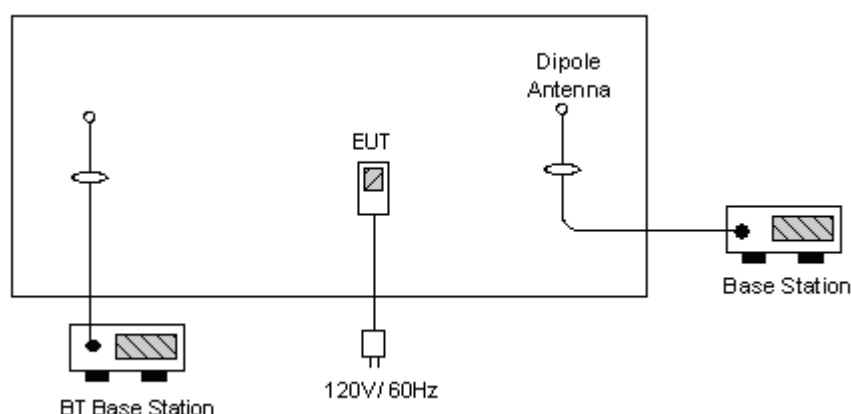
2.1 Test Manner

- The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.
- During all testings, EUT is in link mode with base station emulator at maximum power level.
- Frequency range investigated: radiated emission 30MHz to 19000 MHz for GSM1900.

2.2 Test Mode

Application	PCS 1900
Radiated Emission	☒ Mode 1: GSM1900 Link Mode ☒ Mode 2: GSM1900 Link Mode + BT Link
Conducted Measurement	☒ Mode 1: GSM1900 Link Mode

2.3 Connection Diagram of Test System



2.4 Ancillary Equipment List

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable / Power Code
1.	Base Station	R&S	CMU200	N/A	Unshielded, 1.8m
2.	BT Base Station	Anritus	8852A	N/A	Unshielded, 1.8m



3. General Information of Test Site

Test Site Location : No. 52, Hwa Ya 1st 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 : 03CH06-HY, TH02-HY

The chamber meets the characteristics of ANSI C63.4-2003. This site is on file with the FCC.

3.1 Test Voltage

AC 120V / 60Hz

3.2 Test Compliance

47 CFR Part 24E

3.3 Frequency Range

a. Radiation: from 30 MHz to 19000 MHz for GSM1900.

3.4 Test Distance

The test distance of radiated emission from antenna to EUT is 3 m.



4. Test Data and Test Result

4.1 List of Measurements and Examinations

FCC Rule	Description of Test	Result	Section
§2.1046	RF Output Power	Passed	4.2
§ 22.913 §24.232	ERP / EIRP	Passed	4.3
§2.1049, § 22.917, § 24.238(b)	Occupied Bandwidth & Band Edge Measurement	Passed	4.4
§2.1051	Conducted Emission	Passed	4.5
§2.1053	Field Strength of Spurious Radiation	Passed	4.6
§2.1055, § 22.355, §24.235	Frequency Stability vs. Temperature	Passed	4.7
§2.1055, §22.355, §24.235	Frequency Stability vs. Voltage	Passed	4.8

4.2 RF Output Power

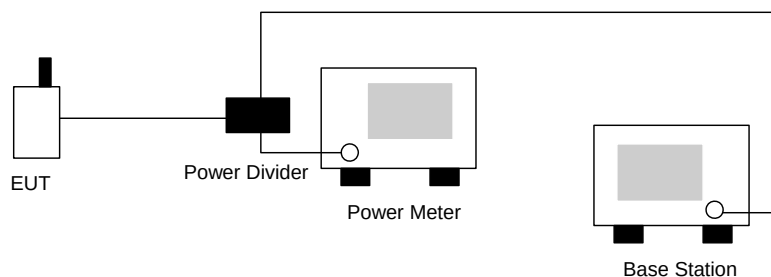
4.2.1 Measurement Instruments

As described in chapter 5 of this test report.

4.2.2 Test Procedure

- The transmitter output was connected to power meter and base station through power divider.
- Set EUT at maximum power through base station.
- Select lowest, middle, and highest channels for each band.

4.2.3 Test Setup Layout



4.2.4 Test Result

Bands	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)
GSM1900	512	1850.2 (Low)	28.24	0.667
	661	1880.0 (Mid)	28.25	0.668
	810	1909.8 (High)	28.26	0.670



4.3 EIRP Measurement

Equivalent isotropic radiated power measurements by substitution method according to ANSI/TIA/EIA-603-C.

4.3.1 Measurement Instruments

As described in chapter 5 of this test report.

4.3.2 Test Procedure

- a. The EUT was placed on a turntable with 1.0 meter height in an fully anechoic chamber.
- b. The EUT was set 1.2 meters from the receiving antenna which was mounted on the antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiated power.
- d. The height of the receiving antenna is also kept at 1.0M height.
- e. Taking the record of maximum EIRP.
- f. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
- g. The conducted power at the terminal of the dipole antenna is measured.
- h. Repeat step 3 to step 5 to get the maximum EIRP of the substitution antenna.
- i. $EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

P_s (dBm) : Input power to substitution antenna.

G_s (dBi) : Substitution antenna Gain.

$E_t = R_t + AF$

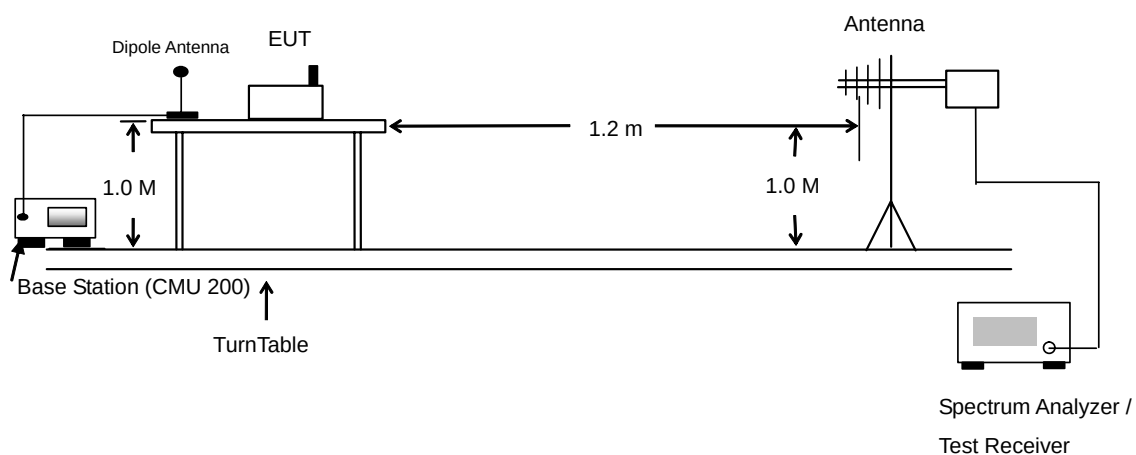
$E_s = R_s + AF$

AF (dB/m) : Receive antenna factor

R_t : The highest received signal in Spectrum Analyzer for EUT.

R_s : The highest received signal in spectrum analyzer for substitution antenna.

4.3.3 Test Setup Layout of EIRP





4.3.4 Test Result

GSM1900 Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-24.43	-51.88	0.00	1.96	29.41	0.87
1880.00	-26.08	-52.99	0.00	2.00	28.91	0.78
1909.80	-28.38	-54.28	0.00	1.98	27.88	0.61
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-27.47	-52.13	0.00	1.96	26.62	0.46
1880.00	-29.03	-53.17	0.00	2.00	26.14	0.41
1909.80	-30.18	-54.13	0.00	1.98	25.93	0.39

4.4 Occupied Bandwidth and Band Edge Measurement

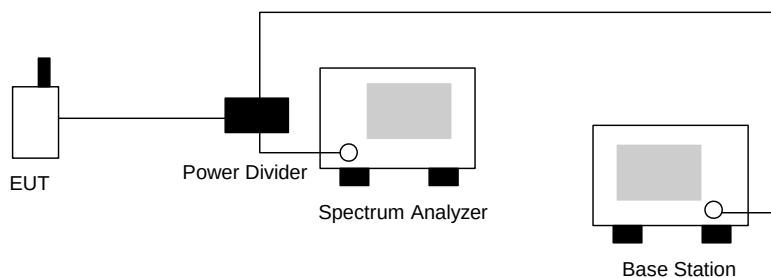
4.4.1 Measurement Instruments

As described in chapter 5 of this test report.

4.4.2 Test Procedure

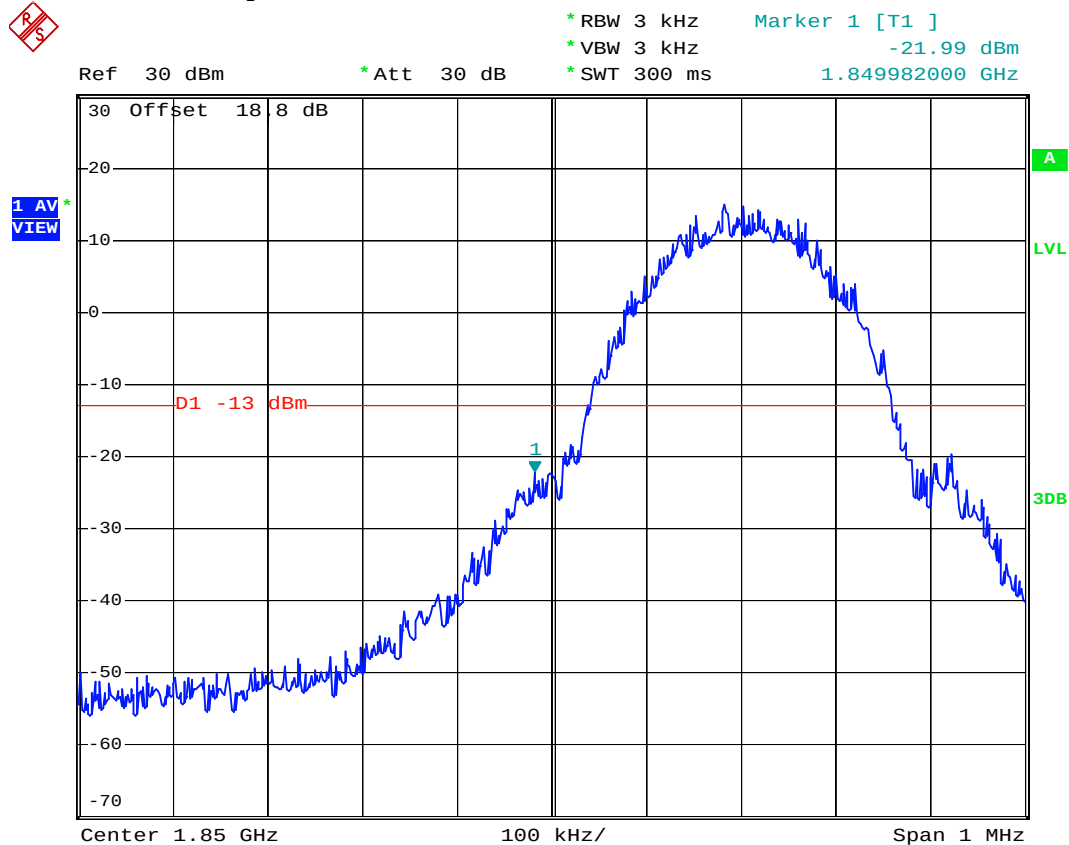
- The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- The 99% occupied bandwidth of middle channel for the highest and lowest RF powers were measured.
- The bandedge of low and high channels for the highest RF powers within the transmitting frequency band were measured. Setting RBW as roughly BW/100.

4.4.3 Test Setup Layout



**4.4.4 Test Result**

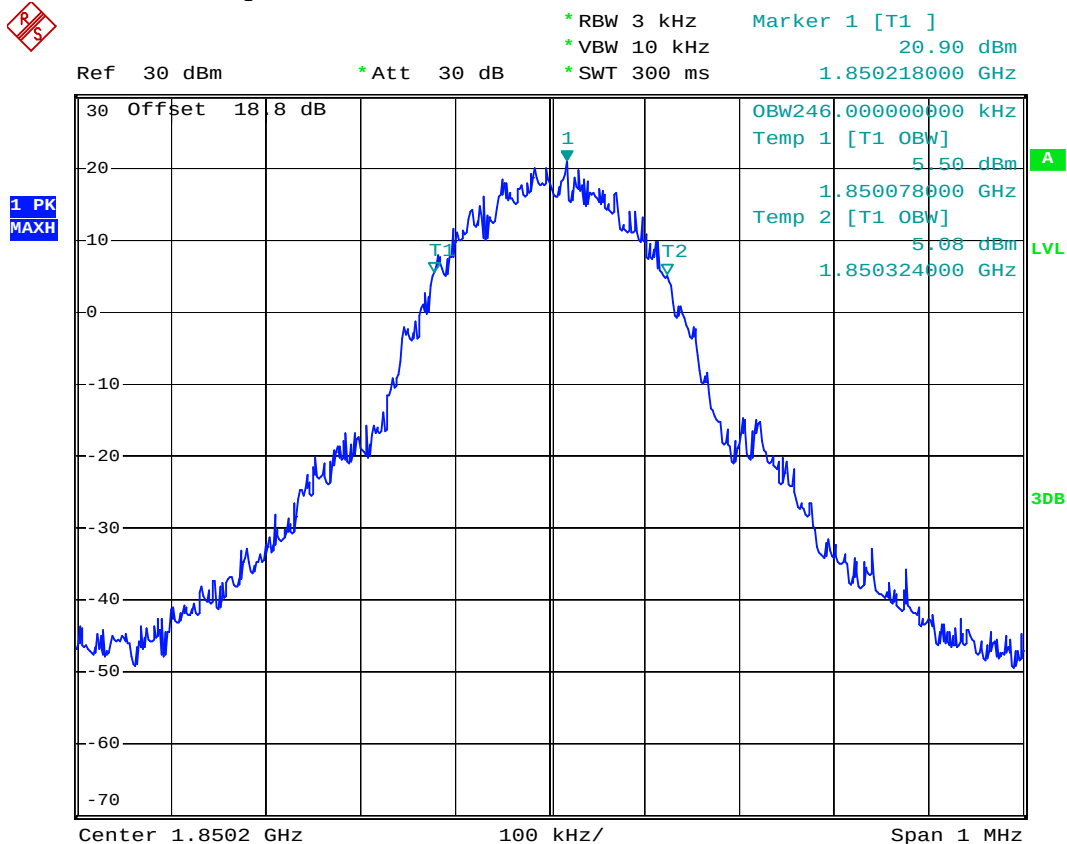
- Mode 1
- Test Mode : GSM1900 CH512 Lower Band Edge
- Power State : High



Date: 25.JAN.2008 02:53:17



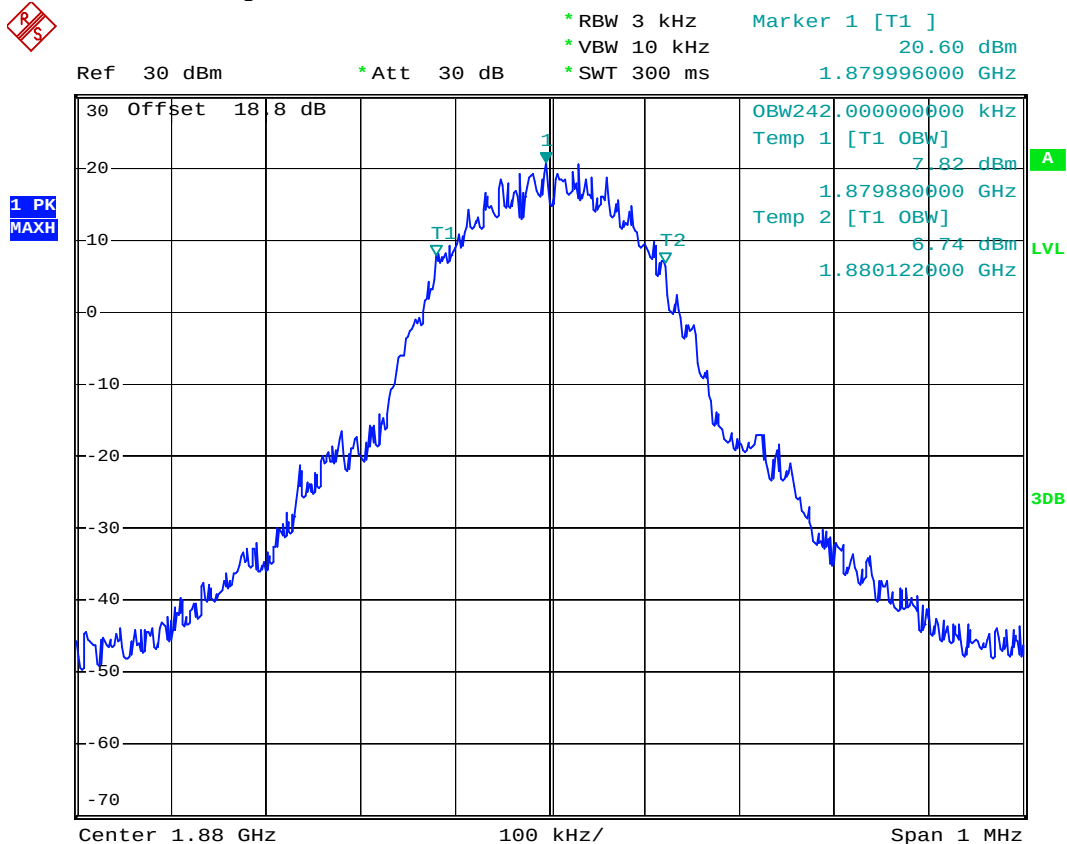
- Test Mode : GSM1900 CH512 99% Occupied Bandwidth
- Power State : High



Date: 25.JAN.2008 02:50:42



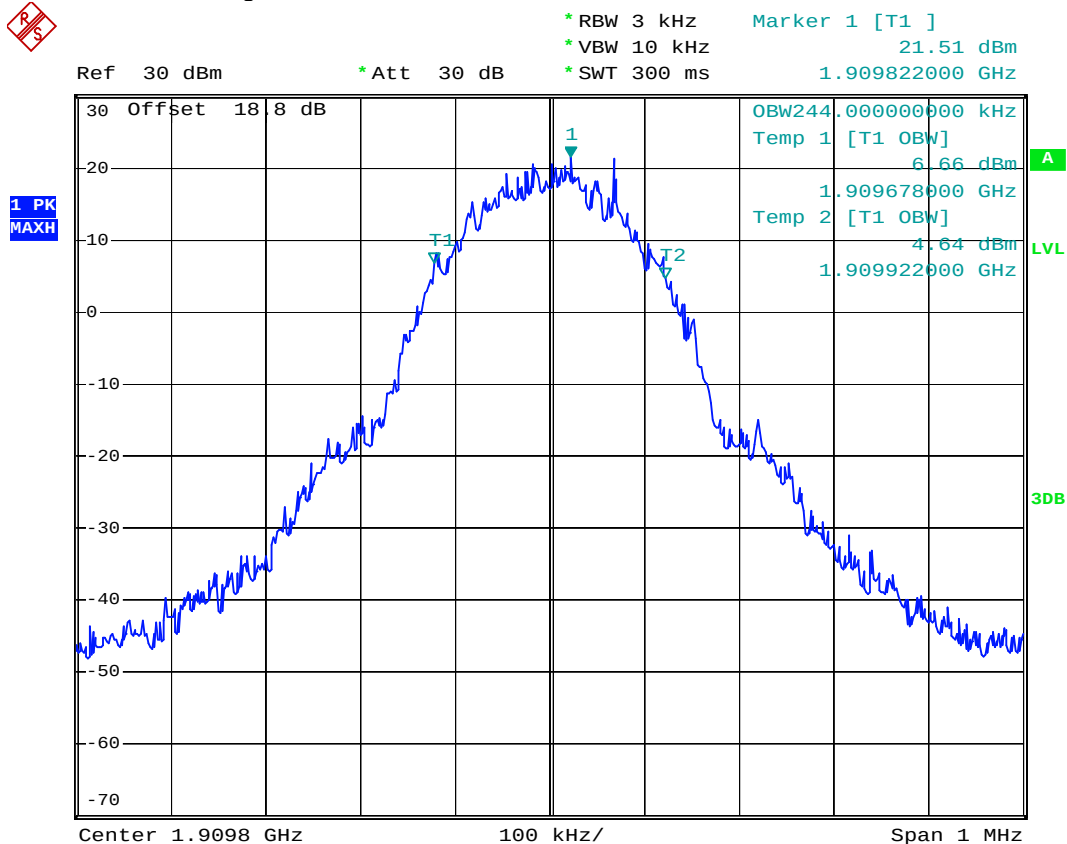
- Test Mode : GSM1900 CH661 99% Occupied Bandwidth
- Power State : High



Date: 25.JAN.2008 02:51:13



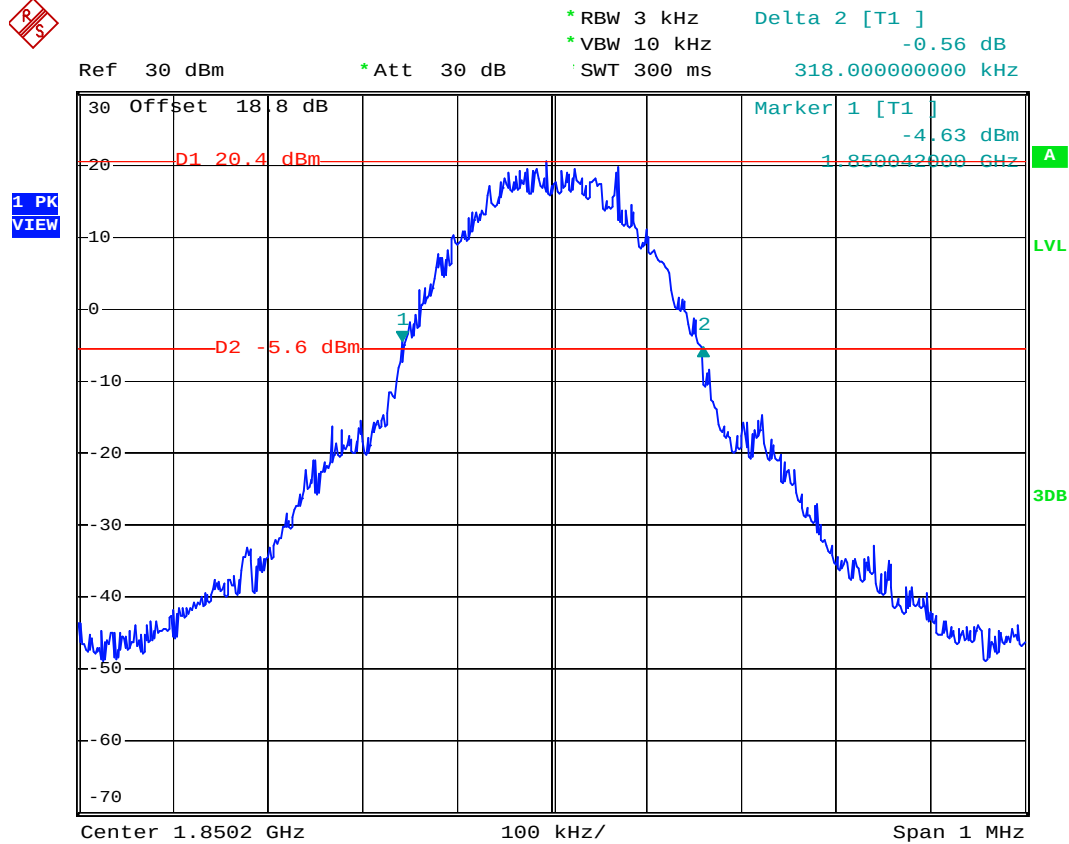
- Test Mode : GSM1900 CH810 99% Occupied Bandwidth
- Power State : High



Date: 25.JAN.2008 02:50:05



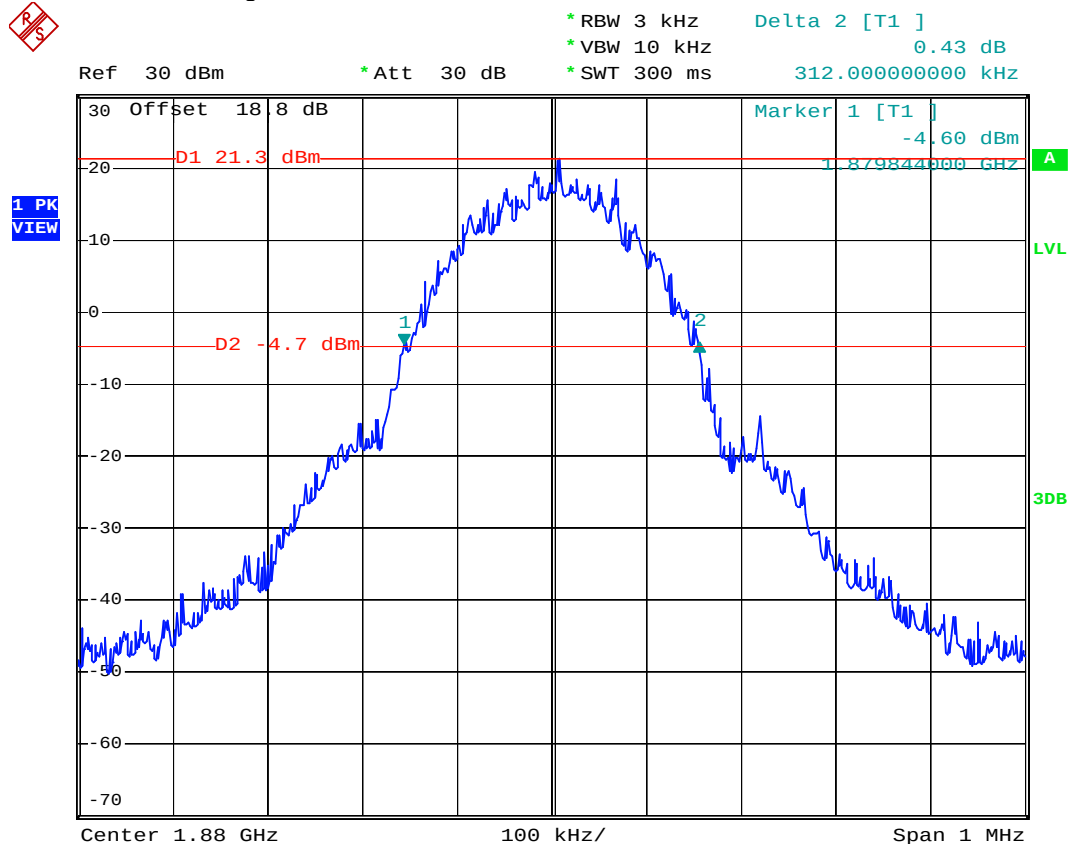
- Test Mode : GSM1900 CH512 26dB Bandwidth
- Power State : High



Date: 25.JAN.2008 02:46:58



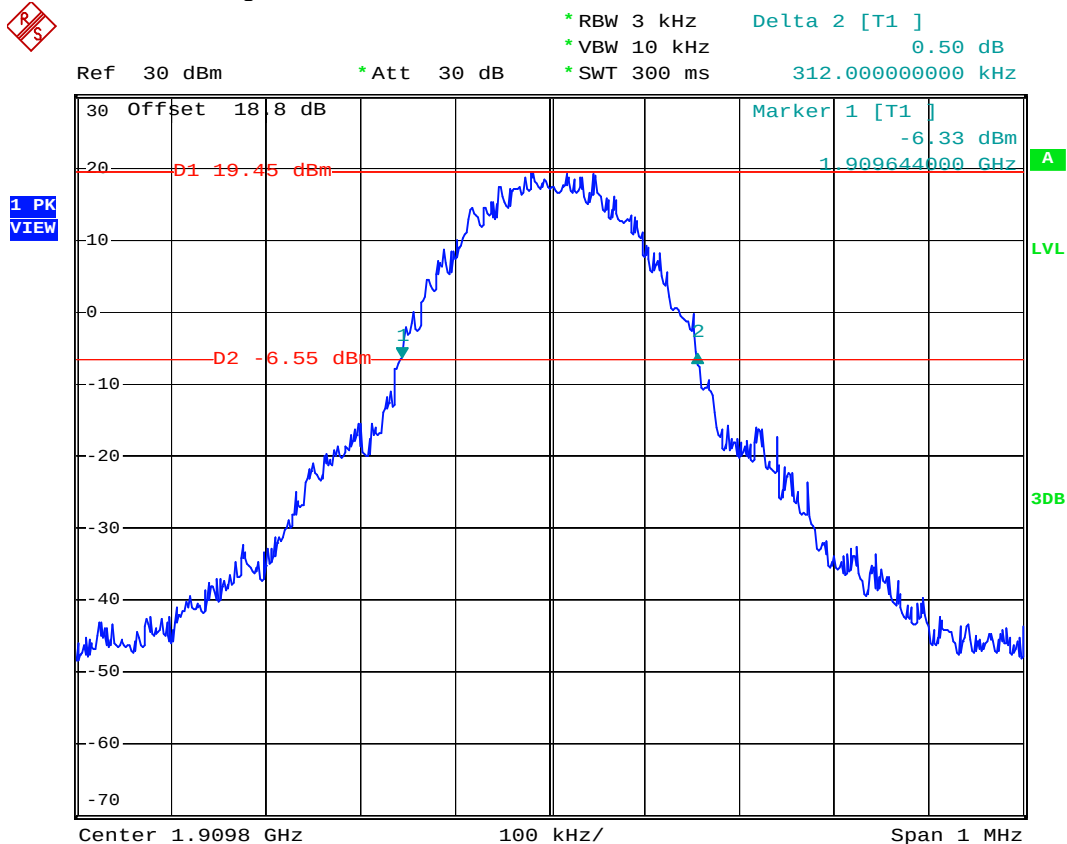
- Test Mode : GSM1900 CH661 26dB Bandwidth
- Power State : High



Date: 25.JAN.2008 02:47:49



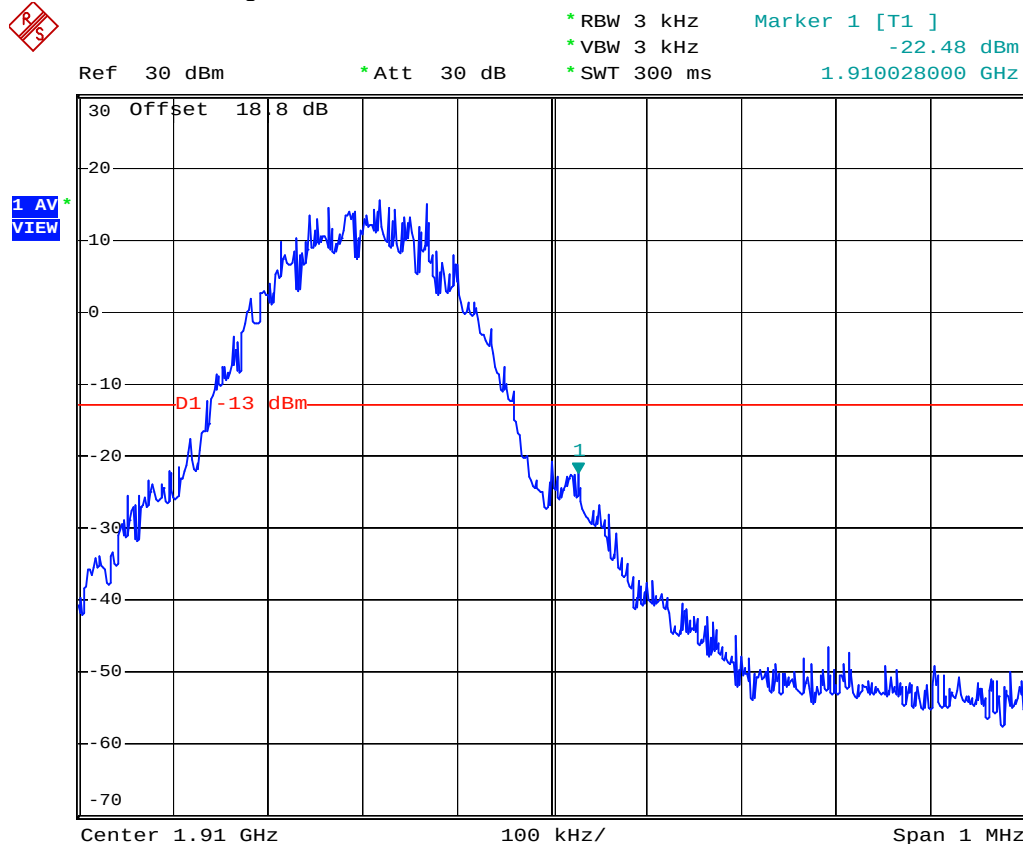
- Test Mode : GSM1900 CH810 26dB Bandwidth
- Power State : High



Date: 25.JAN.2008 02:48:47



- Test Mode : GSM1900 CH810 Higher Band Edge
- Power State : High



Date: 25.JAN.2008 02:59:24

4.5 Conducted Emission

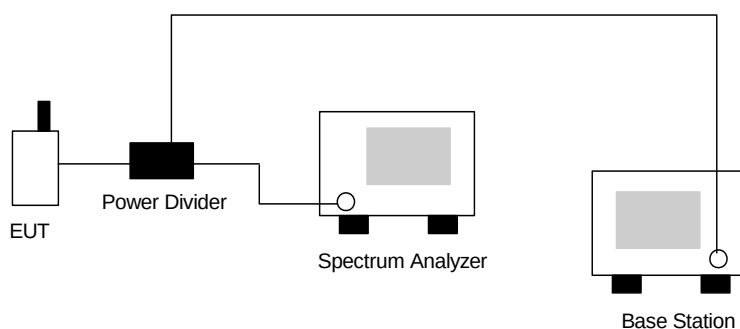
4.5.1 Measurement Instruments

As described in chapter 5 of this test report.

4.5.2 Test Procedure

- The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- The middle channel for the highest RF power within the transmitting frequency was measured.
- The conducted spurious emission for the whole frequency range was taken.

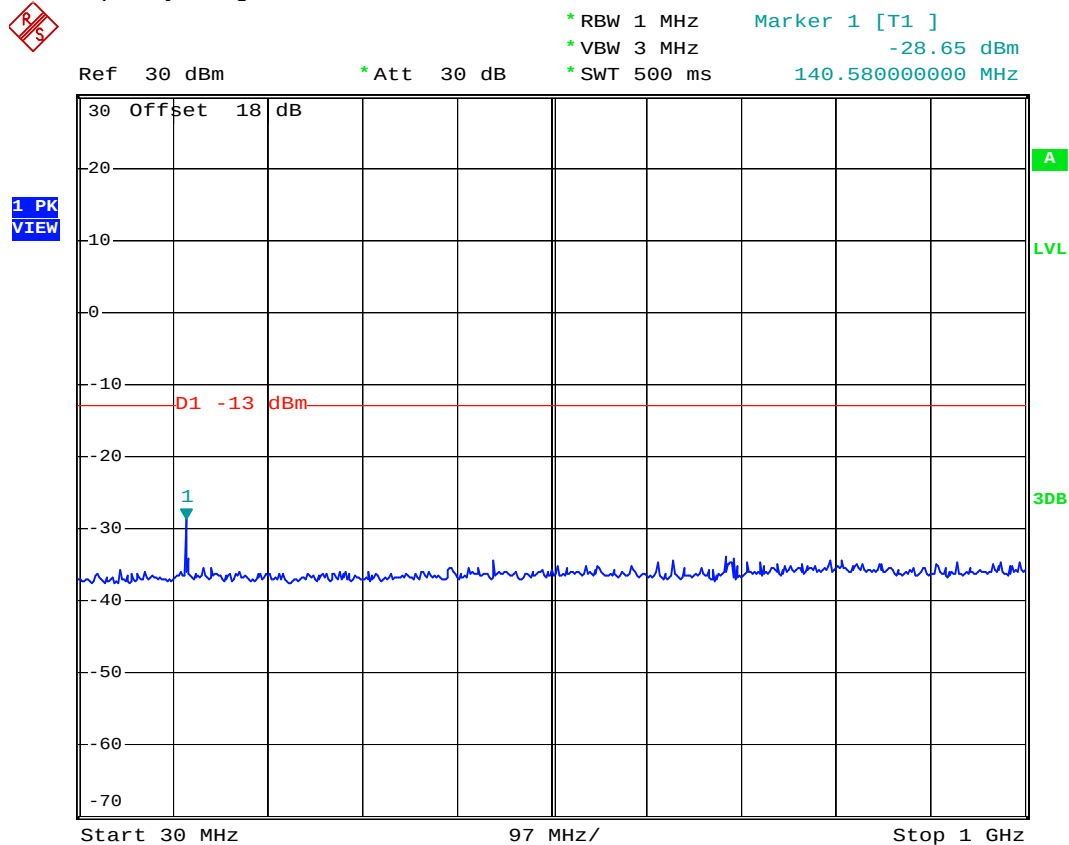
4.5.3 Test Setup Layout





4.5.4 Test Result

- Mode 1
- Test Mode : GSM1900 CH661
- Frequency Range : 30M-1G



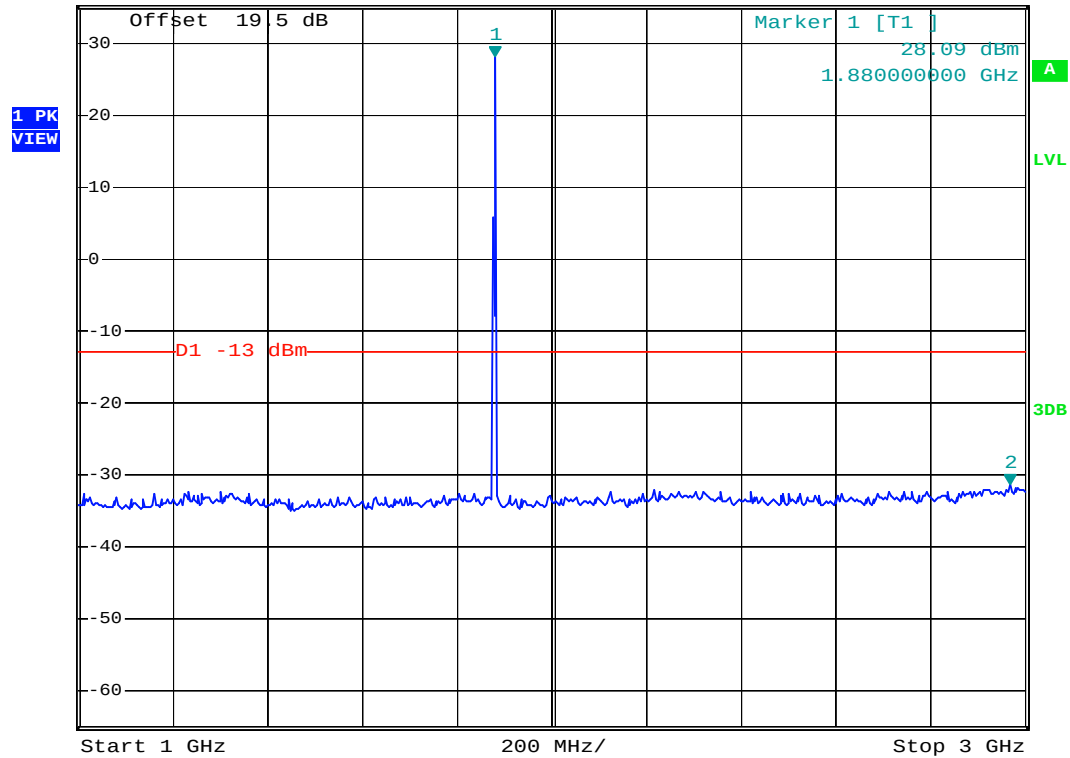
Date: 25.JAN.2008 03:10:39



- Test Mode : GSM1900 CH661
- Frequency Range : 1G-3G



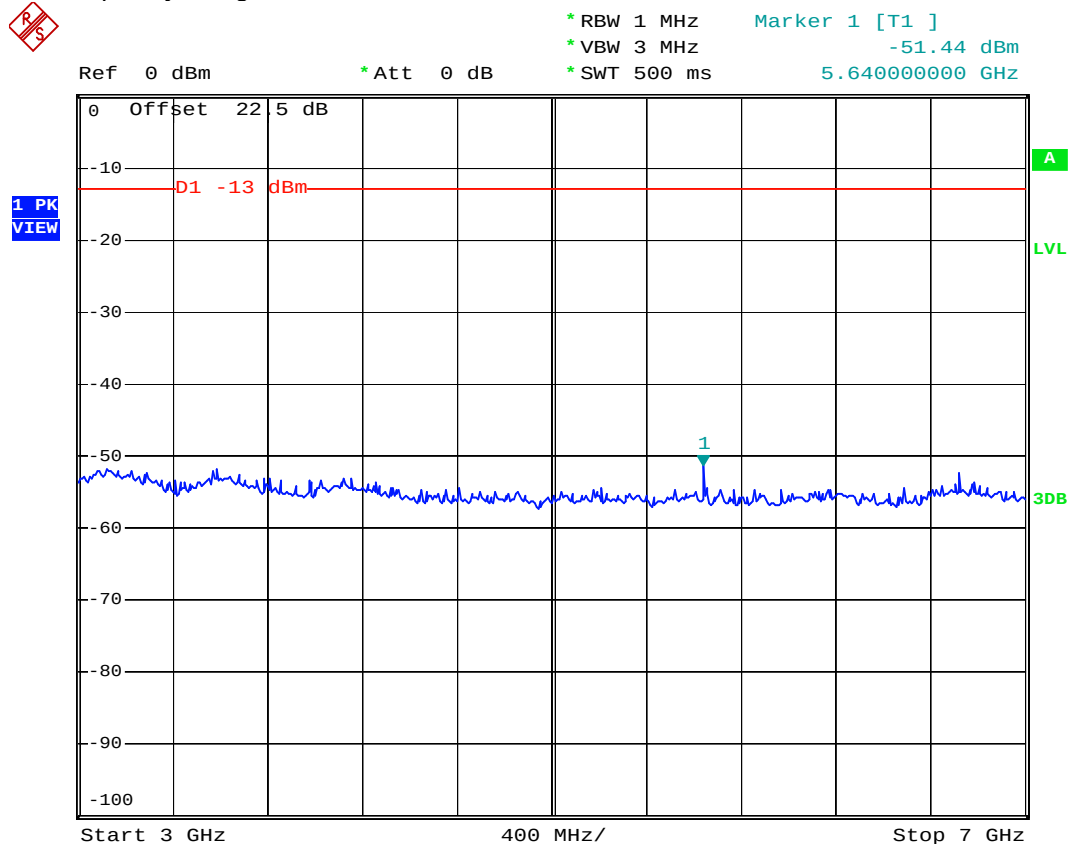
Ref 35 dBm *Att 30 dB *RBW 1 MHz Marker 2 [T1]
*VBW 3 MHz -31.34 dBm
*SWT 500 ms 2.968000000 GHz



Date: 25.JAN.2008 03:11:44



- Test Mode : GSM1900 CH661
- Frequency Range : 3G-7G



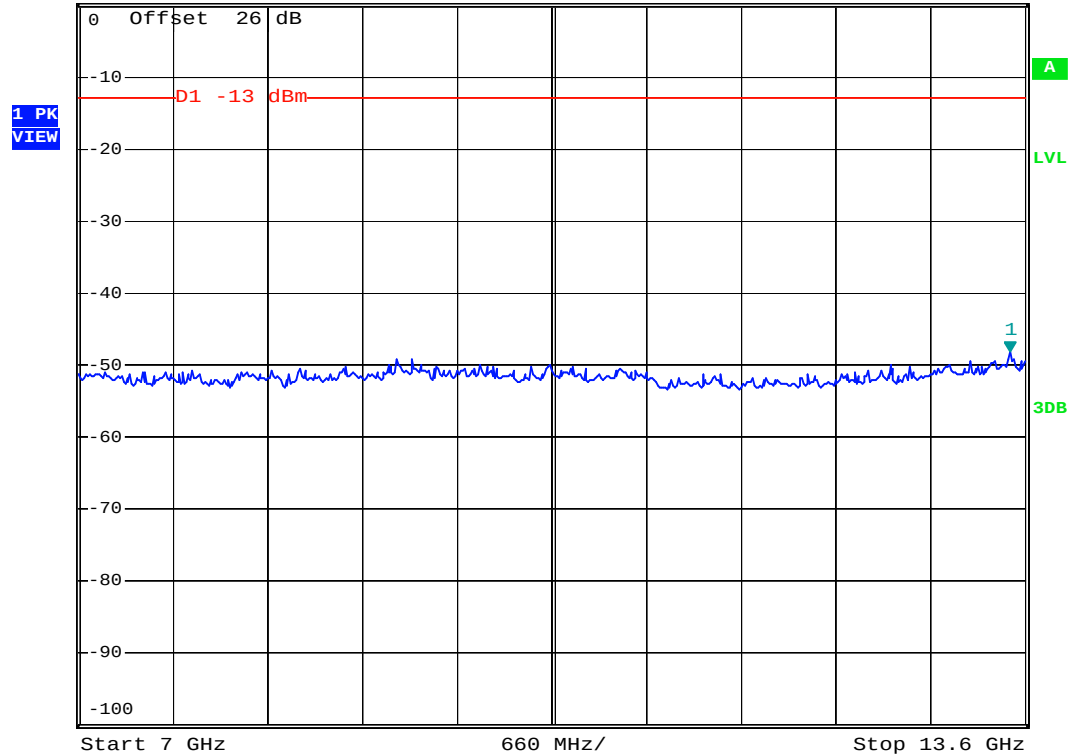
Date: 25.JAN.2008 03:13:30



- Test Mode : GSM1900 CH661
- Frequency Range : 7G-13.6G



Ref 0 dBm *Att 0 dB *RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -48.21 dBm
*SWT 500 ms 13.494400000 GHz



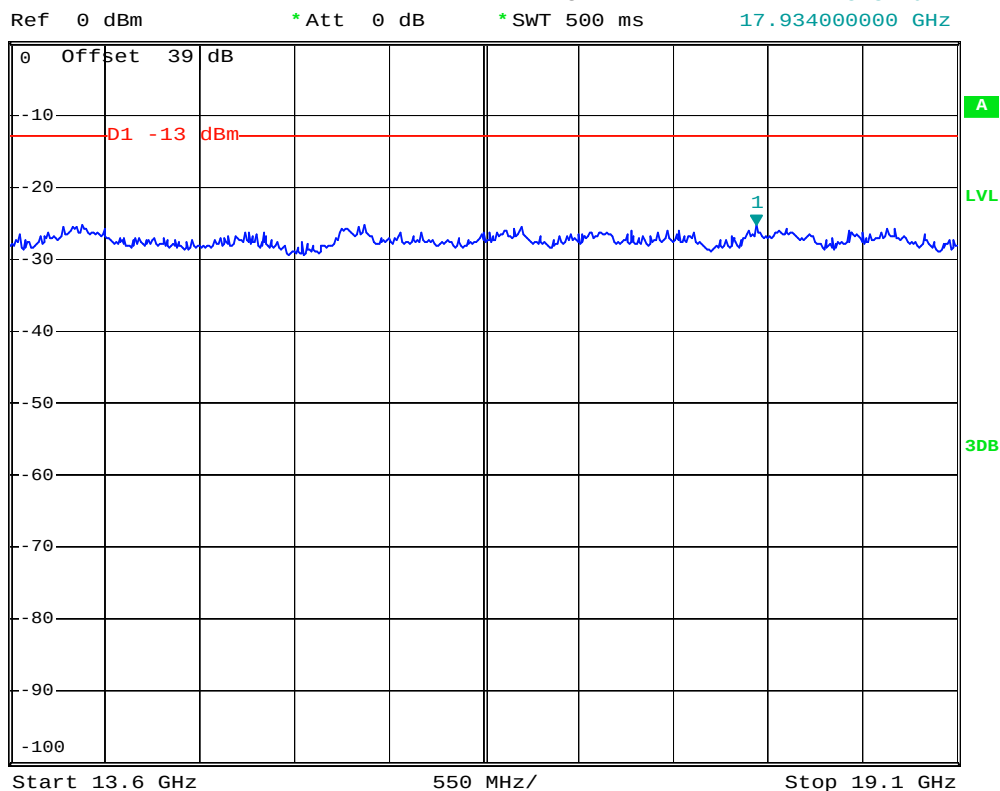
Date: 25.JAN.2008 03:14:07



- Test Mode : GSM1900 CH661
- Frequency Range : 13.6G-19.1G



* RBW 1 MHz Marker 1 [T1]
* VBW 3 MHz -25.32 dBm
* SWT 500 ms 17.934000000 GHz



Date: 25.JAN.2008 03:15:04



4.6 Field Strength of Spurious Radiation

Equivalent isotropic radiated Power Measurements by substitution method according to ANSI/TIA/EIA-603-C.

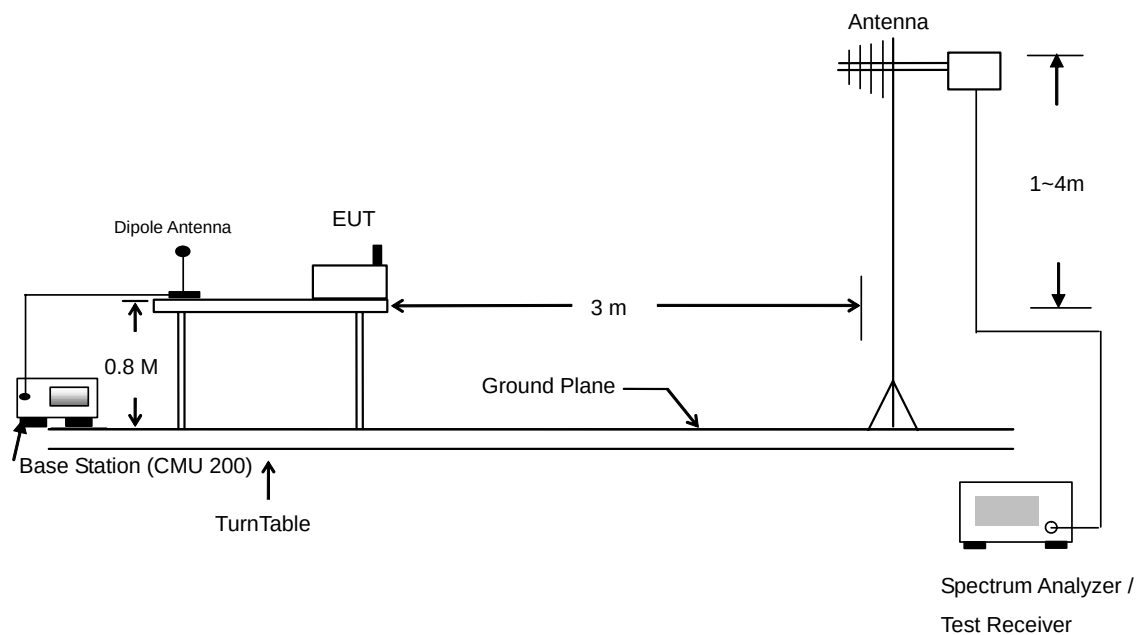
4.6.1 Measurement Instruments

As described in chapter 5 of this test report.

4.6.2 Test Procedure

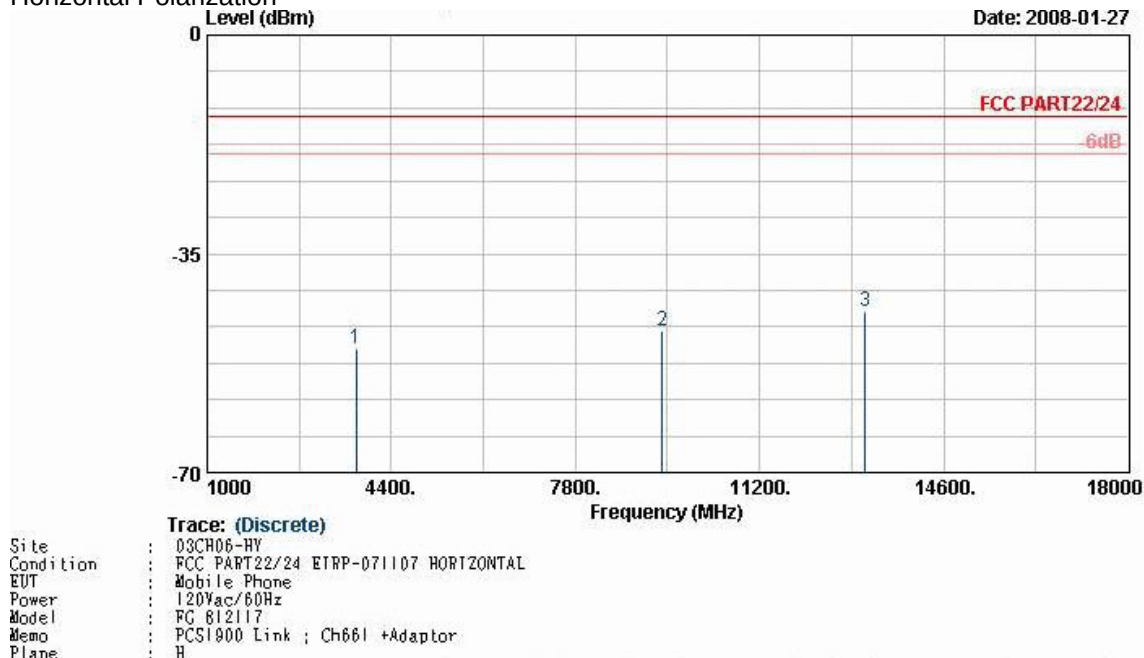
- a. The EUT was placed on a rotatable wooden table with 0.8 meter about ground.
- b. The EUT was set 3 meters from the receiving antenna which was mounted on the antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- d. The height of the receiving antenna is varied between one meter and four meters to reach the maximum spurious emission for both horizontal and vertical polarizations.
- e. Taking the record of maximum spurious emission.
- f. A Horn antenna was substituted in place of the EUT and was driven by a signal generator.
- g. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- h. Taking the record of output power at antenna port.
- i. Repeat step 7 to step 8 for another polarization.
- j. Emission level (dBm) = output power + substitution Gain.

4.6.3 Test Setup Layout



**4.6.4 Test Data****4.6.4.1 Mode 1**

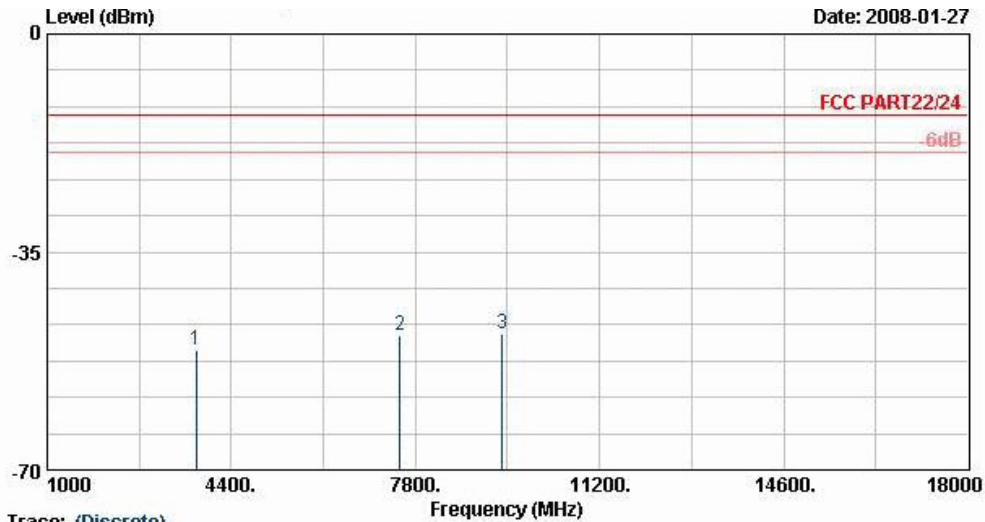
Horizontal Polarization

**GSM1900 Radiated Spurious EIRP**

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	SPA. Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3756	-50.27	-13	-58.35	-54.2	7.17	11.1	H	Pass
9396	-47.35	-13	-58.89	-45.5	11.61	9.76	H	Pass
13156	-44.34	-13	-61.49	-41.3	13.81	10.77	H	Pass



Vertical Polarization



Trace: (Discrete)
Site : 03CH06-HY
Condition : FCC PART22/24 EIRP-071107 VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 812117
Memo : PCS1900 Link ; Ch661 +Adaptor
Plane : H

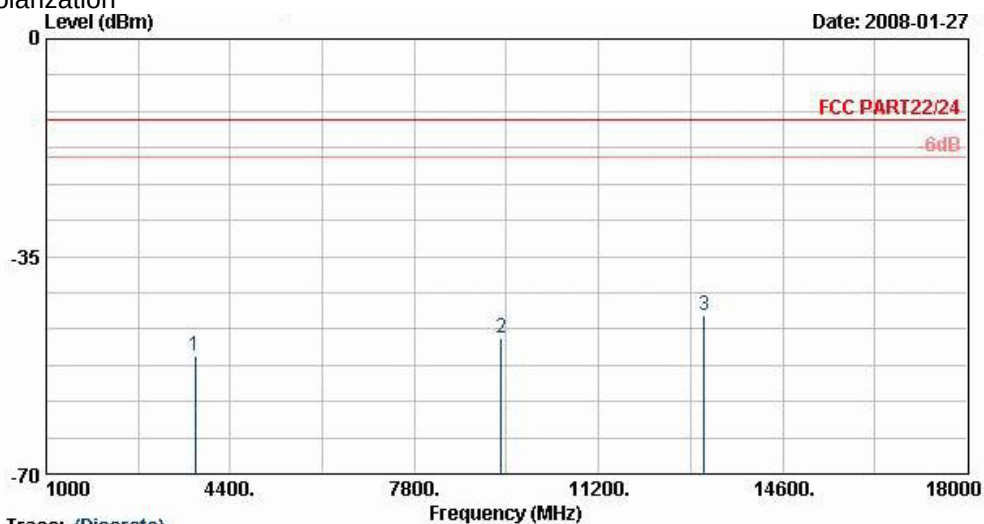
GSM1900 Radiated Spurious EIRP

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	SPA. Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3756	-50.77	-13	-60.05	-54.7	7.17	11.1	V	Pass
7516	-48.51	-13	-60.81	-45.7	10.21	7.4	V	Pass
9396	-48.05	-13	-60.29	-46.2	11.61	9.76	V	Pass



4.6.4.2 Mode 2

Horizontal Polarization



Trace: (Discrete)

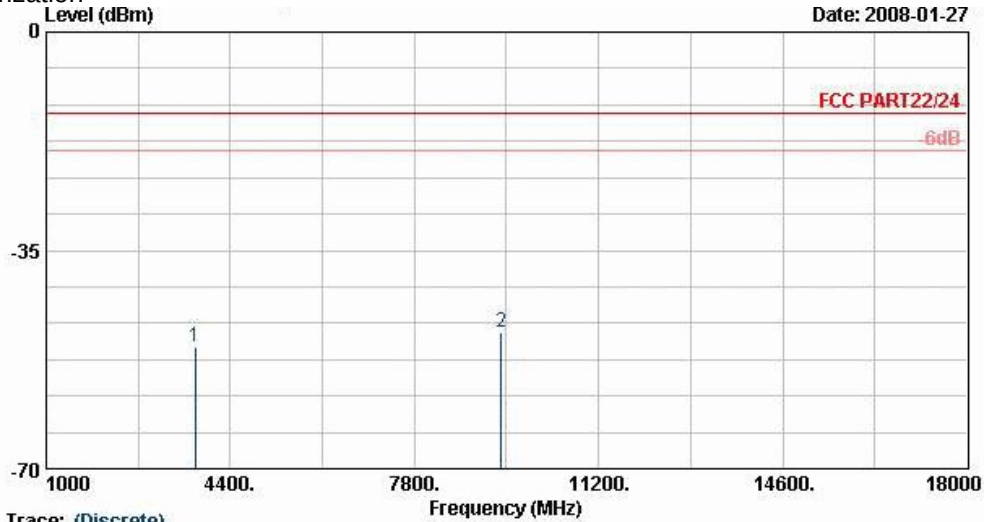
Site : 03CH06-HY
Condition : FCC PART22/24 EIRP-071107 HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 812117
Memo : PCS1900 Link ; Ch661 + BT Tx_Ch00
Memo : +Adaptor
Plane : H

GSM1900 with Bluetooth Co-location Radiated Spurious EIRP

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	SPA. Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3756	-50.97	-13	-59.48	-54.9	7.17	11.1	H	Pass
9396	-48.25	-13	-60.25	-46.4	11.61	9.76	H	Pass
13156	-44.54	-13	-61.65	-41.5	13.81	10.77	H	Pass



Vertical Polarization



Trace: (Discrete)

Site : 03CH06-HY
Condition : FCC PART22/24 EIRP-071107 VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 812117
Memo : PCS1900 Link ; Ch661 + BT Tx_Ch00
Memo : +Adaptor
Plane : H

GSM1900 with Bluetooth Co-location Radiated Spurious EIRP

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	SPA. Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3756	-50.57	-13	-59.57	-54.5	7.17	11.1	V	Pass
9396	-48.25	-13	-60.67	-46.4	11.61	9.76	V	Pass

4.7 Frequency Stability (Temperature Variation)

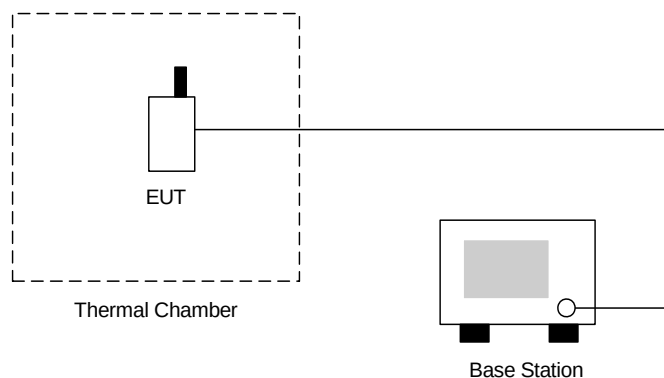
4.7.1 Measurement Instrument

As deccribed in chapter 5 of this test report.

4.7.2 Test Procedure

- a. The EUT and test equipment were set up as shown on the following section.
- b. With all power removed, the temperature was decreased to -30°C and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was note within one minute.
- c. With power OFF, the temperature was raised in 10°C steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change ws noted within one minute.
- d. The temperature tests were performed for the worst case.
- e. Test data was recorded.

4.7.3 Test Setup Layout



**4.7.4 Test Result**

- Test Mode : GSM1900 CH661

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	51	0.03	2.5	Passed
-20	53	0.03		
-10	49	0.03		
0	21	0.01		
10	28	0.01		
20	22	0.01		
30	22	0.01		
40	23	0.01		
50	33	0.02		

4.8 Frequency Stability (Voltage Variation)

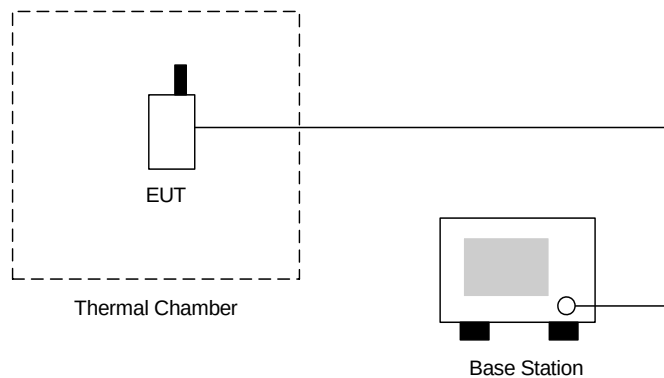
4.8.1 Measurement Instrument

As described in chapter 5 of this test report.

4.8.2 Test Procedure

- The EUT was placed in a temperature chamber at 25 ± 5 °C and connected as the following section.
- The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
- The variation in frequency was measured for the worst case.

4.8.3 Test Setup Layout



**4.8.4 Test Result**

- Test Mode : GSM1900 CH661

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	37.0	0.02	2.5	Passed
BEP	38.0	0.02		
4.2	30.0	0.02		

Remark:

1. Normal Voltage = 3.7V.
2. Battery End Point (BEP) = 3.4V.



5. List of Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Spectrum Analyzer	Agilent	E4408B	MY44211028	9KHz-26.5GHz	Oct. 17, 2007	Oct. 16, 2008	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jul. 26, 2007	Jul. 25, 2008	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Dec. 01, 2007	Nov. 30, 2008	Radiation (03CH06-HY)
Double Ridge Horn Antenna	Com-Power	AH118	071025	1G~18G	Jun. 04, 2007	Jun. 03, 2008	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBEC K	BBHA 9170	9170-251	14G - 40G	Oct. 17, 2007	Oct. 16, 2008	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1G - 26.5G	Nov. 22, 2007	Nov. 21, 2008	Radiation (03CH06-HY)
PreAmplifier	EMEC	PA303	PA303-SMA-059	100K~3GHz	Nov. 26, 2007	Nov. 25, 2008	Radiation (03CH06-HY)
Base Station Simulator	R & S	CMU200	103937	Third-Band	Oct. 19, 2007	Oct. 18, 2008	Radiation (03CH06-HY)
Thermal Chamber	Tenji technology	TTH-D35P	TBN-930701	N/A	Aug. 02, 2007	Aug. 01, 2008	Conduction (TH02-HY)
Spectrum	R&S	FSP40	100055	9KHz~40GHz	Jun. 25, 2007	Jun. 24, 2008	Conduction (TH02-HY)
Bluetooth Test	ANRITSU	MT8852A	6K00003939	N/A	N/A	N/A	Conduction (TH02-HY)
Power Divider	ARRA	5200-1	3871	N/A	Oct. 01, 2007	Sep. 30, 2008	Conduction (TH02-HY)
DC Power Supply	TOPWARD	3303D	740889	N/A	May 25, 2007	May 24, 2009	Conduction (TH02-HY)
R&S	Power Meter	NRVS	100444	N/A	Jun. 27, 2007	Jun. 27, 2008	Conduction (TH02-HY)
R&S	Power Sensor	NRV-Z32	100057	N/A	Jun. 27, 2007	Jun. 27, 2008	Conduction (TH02-HY)

6. Uncertainty Evaluation

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

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-shaped	0.28
Combined standard uncertainty Uc(y)	1.27		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.54		

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

Contribution	Uncertainty of x_i		$u(x_i)$	C_i	$C_i * u(x_i)$
	dB	Probability Distribution			
Receiver reading	±0.10	Normal(k=1)	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 = $20 \log(1 - \Gamma_1 * \Gamma_2 * \Gamma_3)$	+0.34/-0.35	U-shaped	0.244	1	0.244
Combined standard uncertainty Uc(y)	2.36				
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	4.72				

END OF TEST REPORT