

FCC RF Test Report

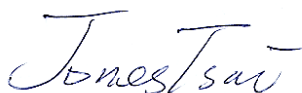
APPLICANT : CT Asia
EQUIPMENT : Mobile phone
BRAND NAME : BLU
MODEL NAME : Life One X
MARKETING NAME : Life One X
FCC ID : YHLBLULIFEONEX
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Dec. 28, 2013 and testing was completed on Jan. 18, 2014. We, SPORTON INTERNATIONAL (SHENZHEN) 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 to be compliant with the applicable technical standards.

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



Reviewed by: Joseph Lin / Supervisor



Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL (SHENZHEN) INC.

No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.

TABLE OF CONTENTS

REVISION HISTORY.....	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Applicant.....	5
1.2 Manufacturer	5
1.3 Feature of Equipment Under Test.....	5
1.4 Product Specification of Equipment Under Test	6
1.5 Modification of EUT	7
1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator	7
1.7 Testing Site	8
1.8 Applied Standards	8
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	9
2.1 Test Mode.....	9
2.2 Connection Diagram of Test System	12
2.3 Support Unit used in test configuration and system.....	12
2.4 Measurement Results Explanation Example	13
3 TEST RESULT.....	14
3.1 Conducted Output Power Measurement.....	14
3.2 Peak-to-Average Ratio	16
3.3 Effective Radiated Power and Effective Isotropic Radiated Power Measurement	24
3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement.....	30
3.5 Band Edge Measurement.....	50
3.6 Conducted Spurious Emission Measurement.....	63
3.7 Field Strength of Spurious Radiation Measurement	79
3.8 Frequency Stability Measurement.....	93
4 LIST OF MEASURING EQUIPMENT	98
5 UNCERTAINTY OF EVALUATION	99
APPENDIX A. SETUP PHOTOGRAPHS	

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG3D2801	Rev. 01	Initial issue of report	Jan. 23, 2014

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	N/A	PASS	-
3.2	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.3	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
3.3	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.4	§2.1049 §22.917(a) §24.238(b)	Occupied Bandwidth	N/A	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a)	Band Edge Measurement	< $43+10\log_{10}(P[\text{Watts}])$	PASS	-
3.6	§2.1051 §22.917(a) §24.238(a)	Conducted Spurious Emission	< $43+10\log_{10}(P[\text{Watts}])$	PASS	-
3.7	§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	< $43+10\log_{10}(P[\text{Watts}])$	PASS	Under limit 19.04 dB at 1672.000 MHz
3.8	§2.1055 §22.355 §24.235	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

1 General Description

1.1 Applicant

CT Asia

Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong

1.2 Manufacturer

TINNO MOBILE

4/F., H-3 Building, OCT Eastern Industrial Park. NO.1 Xiangshan East Road., Nan Shan District, Shenzhen, P.R. CHINA

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Mobile phone
Brand Name	BLU
Model Name	Life One X
Marketing Name	Life One X
FCC ID	YHLBLULIFEONEX
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+/ WLAN 2.4GHz 802.11b/g/n HT20/HT40/ Bluetooth v3.0 + EDR/Bluetooth v4.0 LE
HW Version	V1.1
SW Version	BLU_L133I_V06_GENERIC
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 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz
Maximum Output Power to Antenna	GSM850 : 32.47 dBm GSM1900 : 29.95 dBm WCDMA Band V : 23.38 dBm WCDMA Band II : 22.28 dBm
Antenna Type	Fixed Internal Antenna
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM (Uplink)

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22	GSM850 GSM	GMSK	0.5221	0.02 ppm	248KGXW
Part 22	GSM850 EDGE class 8	8PSK	0.1086	0.02 ppm	246KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.0638	0.01 ppm	4M16F9W
Part 24	GSM1900 GSM	GMSK	1.6506	0.02 ppm	246KGXW
Part 24	GSM1900 EDGE class 8	8PSK	0.5737	0.01 ppm	254KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.3816	0.01 ppm	4M16F9W

1.7 Testing Site

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.		
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C. TEL: +86-755- 3320-2398		
Test Site No.	Sporton Site No.		FCC Registration No.
	TH01-SZ	03CH01-SZ	831040

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.		
Test Site Location	No. 101, Complex Building C, Guanlong Village, Xili Town, Nanshan District, Shenzhen, Guangdong, P.R.C. TEL: +86-755-8637-9589 FAX: +86-755-8637-9595		
Test Site No.	Sporton Site No.		
	OTA01-SZ		

1.8 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
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r01

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.

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 was rotated on three test planes to find out the worst emission (Z plane).

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 and WCDMA Band II.

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM 850	<ul style="list-style-type: none"> ■ GSM Link ■ EDGE class 8 Link 	<ul style="list-style-type: none"> ■ GSM Link ■ EDGE class 8 Link
GSM 1900	<ul style="list-style-type: none"> ■ GSM Link ■ EDGE class 8 Link 	<ul style="list-style-type: none"> ■ GSM Link ■ EDGE class 8 Link
WCDMA Band V	<ul style="list-style-type: none"> ■ RMC 12.2Kbps Link 	<ul style="list-style-type: none"> ■ RMC 12.2Kbps Link
WCDMA Band II	<ul style="list-style-type: none"> ■ RMC 12.2Kbps Link 	<ul style="list-style-type: none"> ■ RMC 12.2Kbps Link

Note: The maximum power levels are GSM mode for GMSK link, EDGE multi-slot class 8 mode for 8PSK link, RMC 12.2Kbps mode for WCDMA band V, and RMC 12.2Kbps mode for WCDMA band II, only these modes were used for all tests.

The conducted power tables are as follows:

For SIM1 Card:

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	32.47	32.45	32.43	29.95	28.90	28.92
GPRS class 8	32.46	32.44	32.42	28.92	28.80	28.83
GPRS class 10	31.60	31.60	31.57	28.23	28.16	28.18
GPRS class 11	30.03	30.02	30.00	26.70	26.67	26.73
GPRS class 12	29.31	29.30	29.28	26.01	25.95	26.00
EGPRS class 8	26.90	26.51	26.36	24.49	24.48	24.46
EGPRS class 10	25.78	25.26	25.16	23.60	23.55	23.53
EGPRS class 11	23.43	23.07	22.98	21.51	21.50	21.50
EGPRS class 12	22.34	21.99	21.87	20.36	20.32	20.43

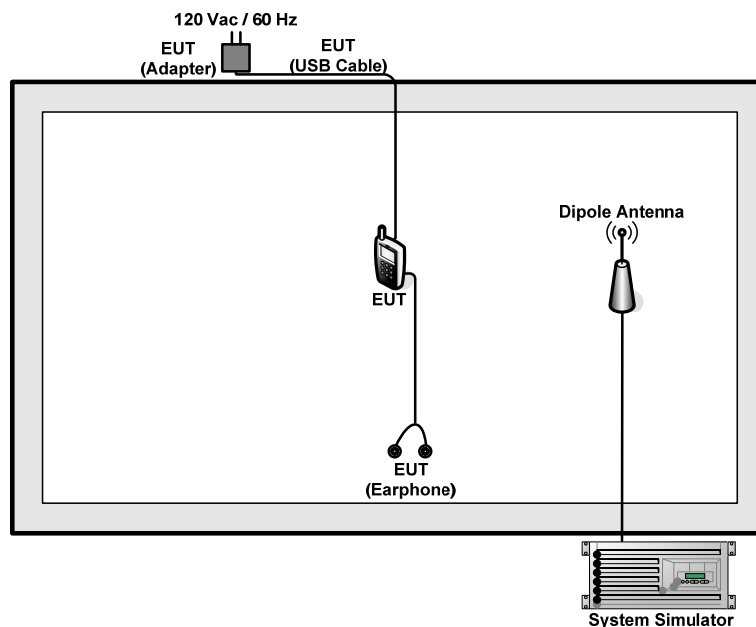
Conducted Power (*Unit: dBm)						
Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4182	4233	9262	9400	9538
Frequency	826.4	836.4	846.6	1852.4	1880.0	1907.6
RMC 12.2K	23.37	23.17	23.38	22.28	22.09	22.10
HSDPA Subtest-1	22.43	22.17	22.35	21.34	21.14	21.19
HSDPA Subtest-2	22.38	22.18	22.32	21.29	21.13	21.16
HSDPA Subtest-3	21.90	21.71	21.87	20.82	20.65	20.72
HSDPA Subtest-4	21.89	21.69	21.87	20.79	20.64	20.66
HSUPA Subtest-1	20.29	20.19	20.31	19.74	19.58	19.63
HSUPA Subtest-2	19.86	19.67	19.82	18.79	18.60	18.80
HSUPA Subtest-3	20.73	20.66	20.72	19.77	19.63	19.67
HSUPA Subtest-4	20.34	20.13	20.31	19.31	19.14	19.24
HSUPA Subtest-5	21.14	21.06	21.10	20.18	19.92	20.24
HSPA+ (16QAM) Subtest-1	20.58	20.46	20.62	19.65	19.52	19.72

For SIM2 Card:

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	32.46	32.44	32.41	28.94	28.85	28.88
GPRS class 8	32.43	32.43	32.39	28.93	28.82	28.87
GPRS class 10	31.57	31.58	31.56	28.22	28.14	28.16
GPRS class 11	30.00	30.01	29.98	26.67	26.66	26.67
GPRS class 12	29.29	29.27	29.27	25.99	25.92	25.98
EGPRS class 8	26.88	26.50	26.33	24.45	24.45	24.44
EGPRS class 10	25.76	25.25	25.13	23.58	23.53	23.52
EGPRS class 11	23.42	23.04	22.96	21.50	21.49	21.47
EGPRS class 12	22.31	21.94	21.86	20.34	20.29	20.40

Conducted Power (*Unit: dBm)						
Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4182	4233	9262	9400	9538
Frequency	826.4	836.4	846.6	1852.4	1880.0	1907.6
RMC 12.2K	23.33	23.15	23.34	22.23	22.08	22.07
HSDPA Subtest-1	22.41	22.11	22.31	21.33	21.12	21.17
HSDPA Subtest-2	22.28	22.14	22.24	21.27	21.12	21.13
HSDPA Subtest-3	21.84	21.69	21.83	20.79	20.63	20.71
HSDPA Subtest-4	21.82	21.64	21.78	20.78	20.60	20.63
HSUPA Subtest-1	20.26	20.17	20.30	19.72	19.55	19.61
HSUPA Subtest-2	19.85	19.67	19.80	18.78	18.55	18.78
HSUPA Subtest-3	20.70	20.65	20.70	19.73	19.61	19.61
HSUPA Subtest-4	20.31	20.11	20.30	19.28	19.13	19.21
HSUPA Subtest-5	21.09	21.03	21.04	20.14	19.89	20.23
HSPA+ (16QAM) Subtest-1	20.56	20.46	20.61	19.66	19.50	19.71

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	R&S	CMW 500	N/A	N/A	Unshielded, 1.8 m
3.	DC Power Supply	TOPWORD	3303DR	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 7.5 dB and 10dB attenuator.

$$\begin{aligned}\text{Offset (dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 7.5 + 10 = 17.5 \text{ (dB)}\end{aligned}$$

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.

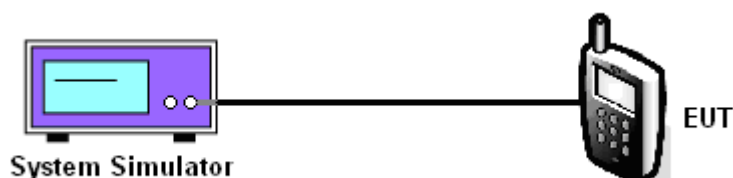
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 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.
4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

Cellular Band									
Modes	GSM850 (GSM)			GSM850 (EDGE class 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)	32.47	32.45	32.43	26.90	26.51	26.36	23.37	23.17	23.38
Conducted Power (Watts)	1.77	1.76	1.75	0.49	0.45	0.43	0.22	0.21	0.22

PCS Band									
Modes	GSM1900 (GSM)			GSM1900 (EDGE class 8)			WCDMA Band II (RMC 12.2Kbps)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6
Conducted Power (dBm)	29.95	28.90	28.92	24.49	24.48	24.46	22.28	22.09	22.10
Conducted Power (Watts)	0.99	0.78	0.78	0.28	0.28	0.28	0.17	0.16	0.16

Note: Maximum burst average power for GSM, and maximum average power for WCDMA.

3.2 Peak-to-Average Ratio

3.2.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

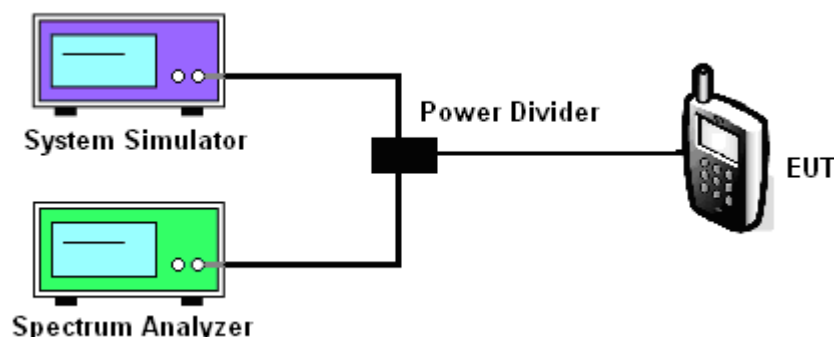
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and System Simulator via power divider.
2. For GSM/EGPRS operating modes:
 - a. Set EUT in maximum power output.
 - b. Set the RBW = 1MHz, VBW = 3MHz, Peak detector in spectrum analyzer for first trace.
 - c. Set the RBW = 1MHz, VBW = 3MHz, RMS detector in spectrum analyzer for second trace.
 - d. The wanted burst signal is triggered by spectrum analyzer, and measured respectively the peak level and Mean level without burst-off time, after system simulator synchronized with the spectrum analyzer.
3. For UMTS operating modes:
 - a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
 - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio.

3.2.4 Test Setup

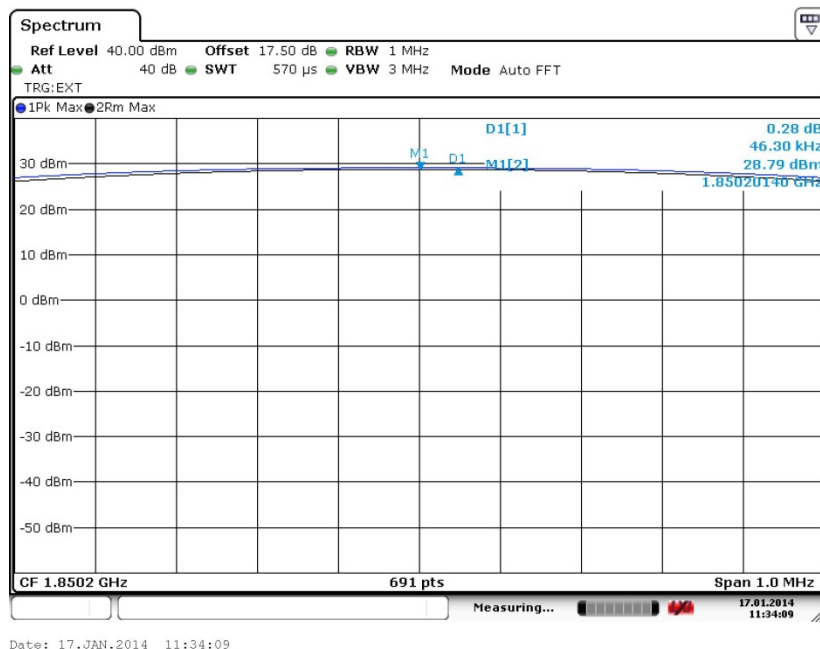
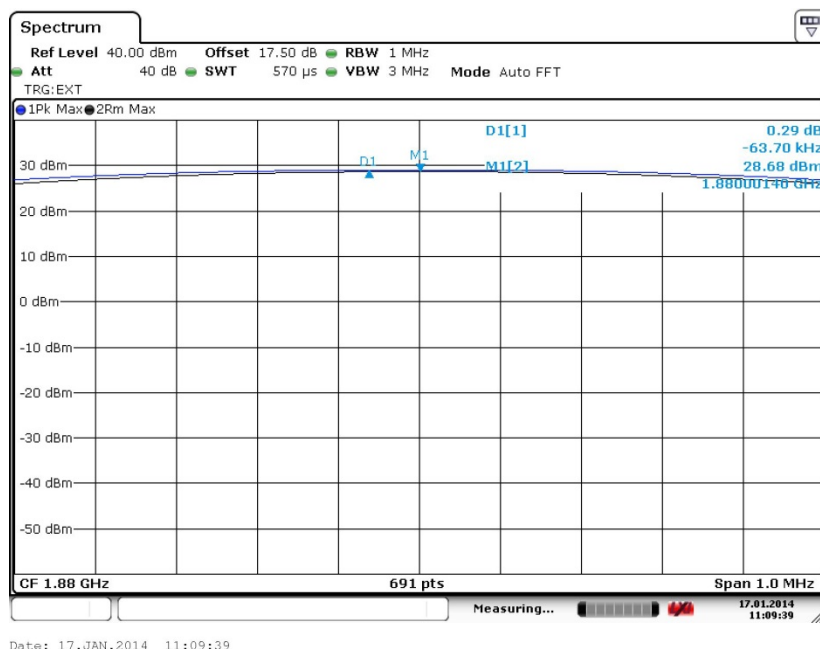


3.2.5 Test Result of Peak-to-Average Ratio

PCS Band									
Modes	GSM1900 (GSM)			GSM1900 (EDGE class 8)			WCDMA Band II (RMC 12.2Kbps)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6
Peak-to-Average Ratio (dB)	0.28	0.29	0.29	2.44	2.50	2.54	2.64	3.00	2.80

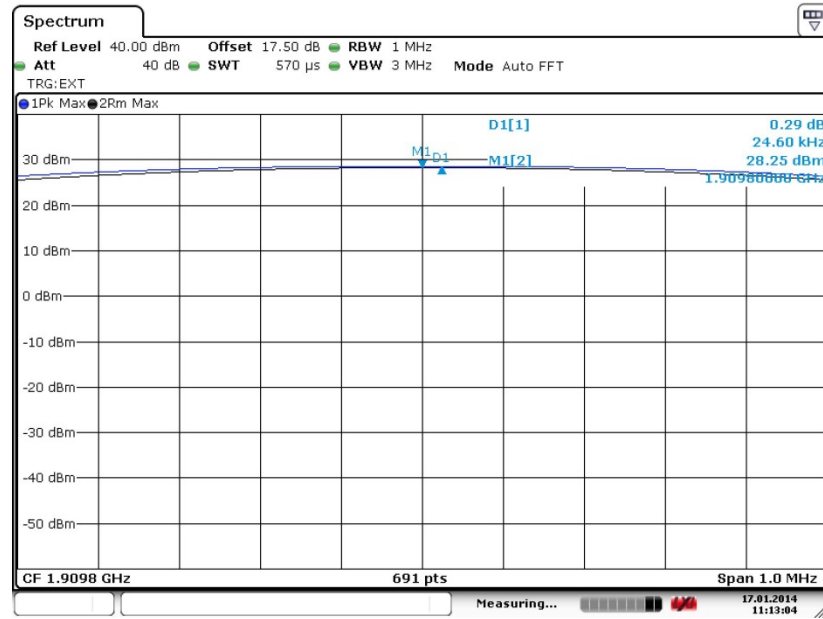
3.2.6 Test Result (Plots) of Peak-to-Average Ratio

Band :	GSM 1900	Test Mode :	GSM Link (GMSK)
---------------	----------	--------------------	-----------------

Peak-to-Average Ratio on Channel 512 (1850.2 MHz)

Peak-to-Average Ratio on Channel 661 (1880.0 MHz)




Peak-to-Average Ratio on Channel 810 (1909.8 MHz)

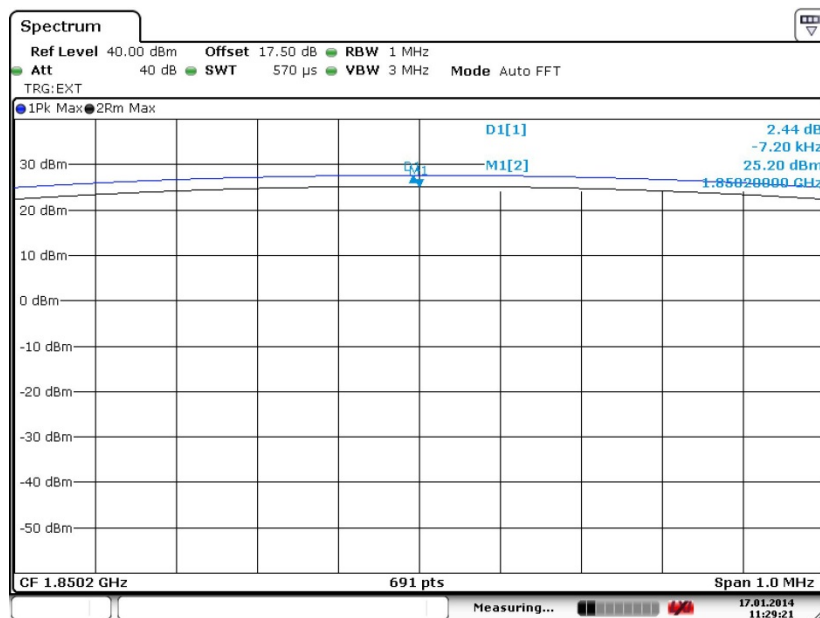


Date: 17.JAN.2014 11:13:04



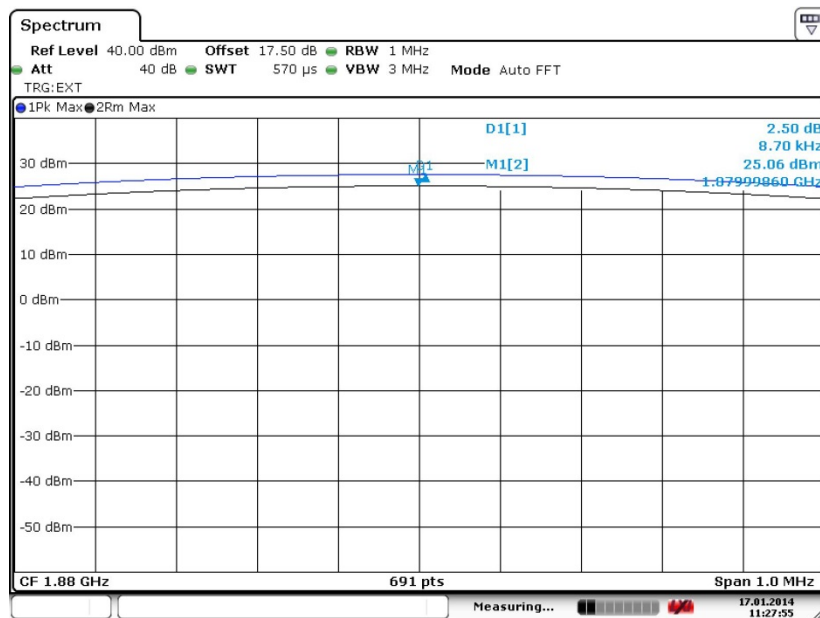
Band :	GSM 1900	Test Mode :	EDGE class 8 Link (8PSK)
--------	----------	-------------	--------------------------

Peak-to-Average Ratio on Channel 512 (1850.2 MHz)



Date: 17.JAN.2014 11:29:21

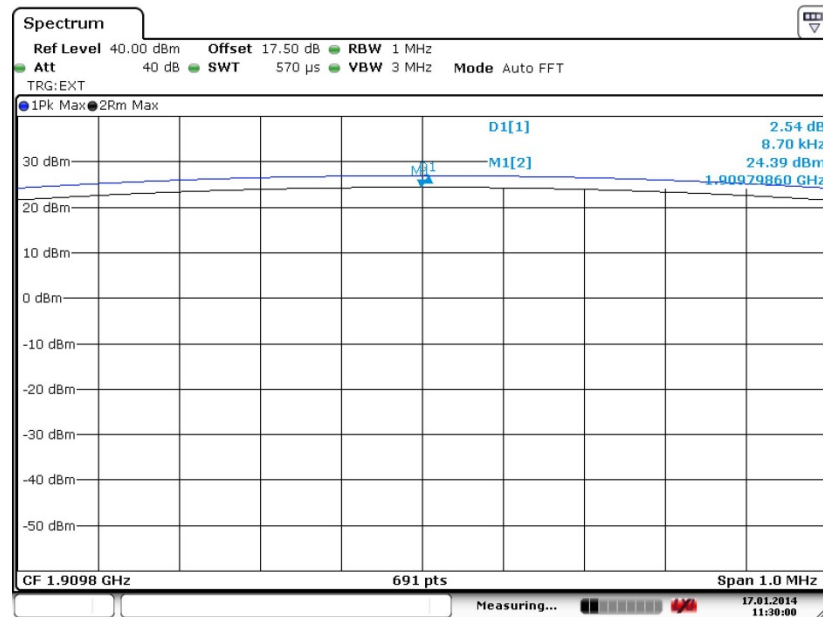
Peak-to-Average Ratio on Channel 661 (1880.0 MHz)



Date: 17.JAN.2014 11:27:55



Peak-to-Average Ratio on Channel 810 (1909.8 MHz)

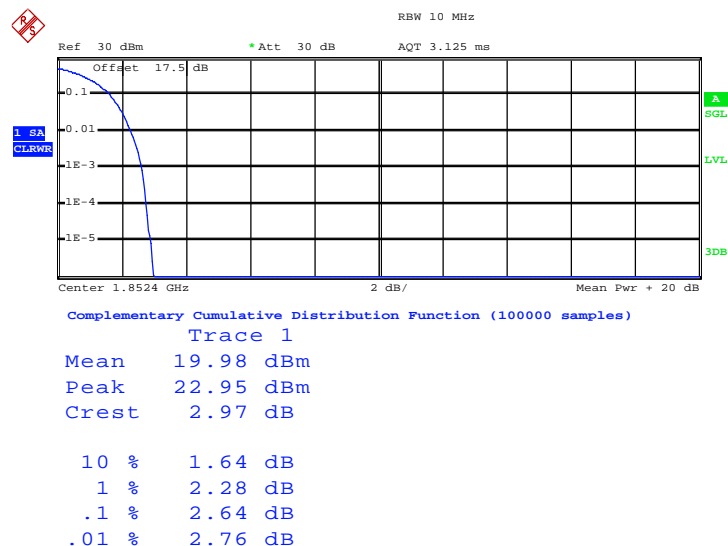


Date: 17.JAN.2014 11:30:00



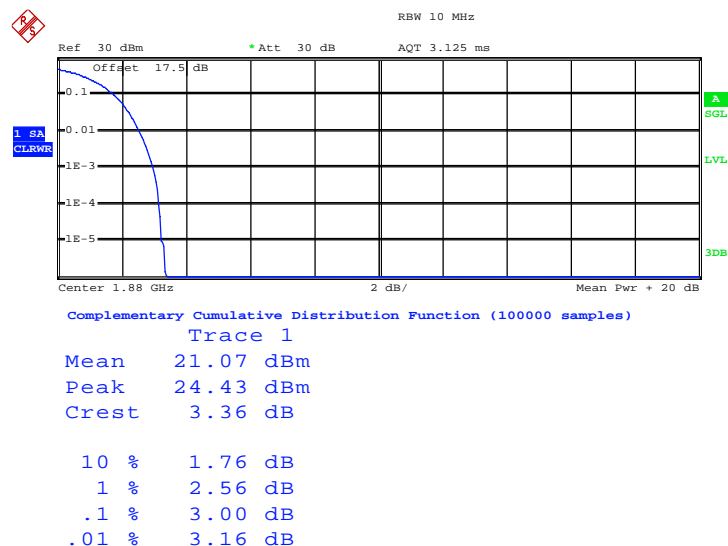
Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link (QPSK)
--------	---------------	-------------	--------------------------

Peak-to-Average Ratio on Channel 9262 (1852.4 MHz)



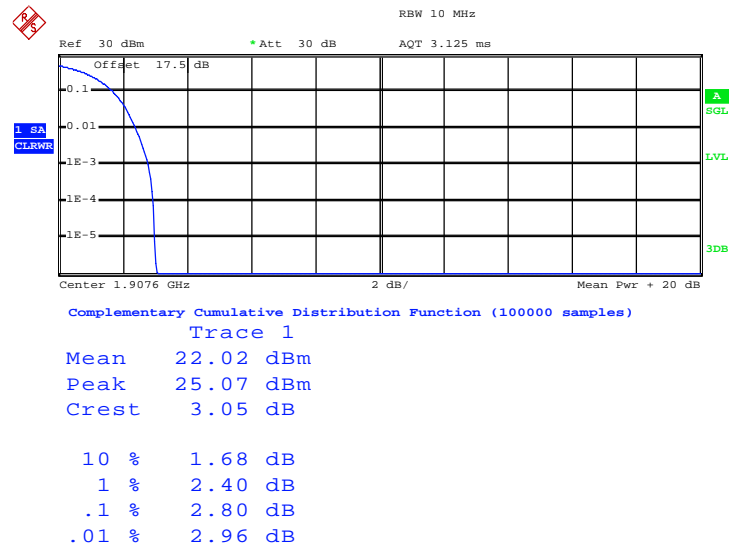
Date: 1.JAN.2014 17:02:39

Peak-to-Average Ratio on Channel 9400 (1880.0 MHz)



Date: 1.JAN.2014 17:01:49

Peak-to-Average Ratio on Channel 9538 (1907.6 MHz)



Date: 1.JAN.2014 17:02:10

3.3 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

3.3.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-C-2004, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r01. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

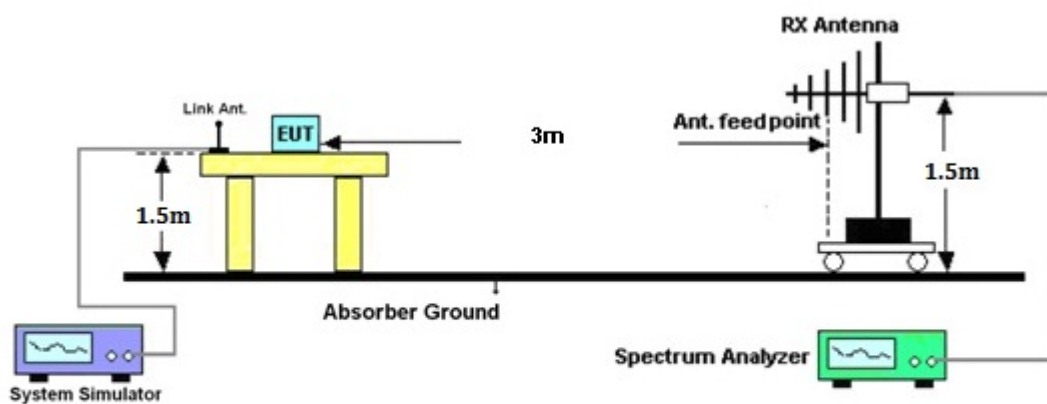
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
2. The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. GSM operating modes: Set RBW= 1MHz, VBW= 3MHz, RMS detector over burst;
UMTS operating modes: Set RBW= 100 kHz, VBW= 300 kHz, RMS detector over frame, and use channel power option with bandwidth=5MHz, per KDB 971168 D01.
4. The table was rotated 360 degrees to determine the position of the highest radiated power.
5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
6. Taking the record of maximum ERP/EIRP.
7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
8. The conducted power at the terminal of the dipole antenna is measured.
9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
10. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$
 P_s (dBm) : Input power to substitution antenna.
 G_s (dBi or dBd) : 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.

3.3.4 Test Setup



3.3.5 Test Result of ERP

GSM850 (GSM) Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-19.86	-48.12	0.00	-1.08	27.18	0.5221
836.40	-20.27	-48.28	0.00	-0.93	27.08	0.5108
848.80	-20.75	-48.35	0.00	-0.76	26.84	0.4835
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-30.62	-47.97	0.00	-1.08	16.27	0.0423
836.40	-30.74	-48.01	0.00	-0.93	16.34	0.0431
848.80	-31.27	-48.05	0.00	-0.76	16.02	0.0400

GSM850 (EDGE class 8) Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-26.68	-48.12	0.00	-1.08	20.36	0.1086
836.40	-27.67	-48.28	0.00	-0.93	19.68	0.0929
848.80	-28.58	-48.35	0.00	-0.76	19.01	0.0796
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-36.72	-47.97	0.00	-1.08	10.17	0.0104
836.40	-37.52	-48.01	0.00	-0.93	9.56	0.0090
848.80	-38.50	-48.05	0.00	-0.76	8.79	0.0076

WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
826.40	-29.49	-48.12	0.00	-1.08	17.55	0.0569
836.40	-29.81	-48.28	0.00	-0.93	17.54	0.0568
846.60	-29.54	-48.35	0.00	-0.76	18.05	0.0638
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
826.40	-40.22	-47.97	0.00	-1.08	6.67	0.0046
836.40	-40.52	-48.01	0.00	-0.93	6.56	0.0045
846.60	-40.29	-48.05	0.00	-0.76	7.00	0.0050

3.3.6 Test Result of EIRP

GSM1900 (GSM) Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-21.85	-51.88	0.00	1.96	31.99	1.5796
1880.00	-23.28	-52.99	0.00	2.00	31.71	1.4829
1909.80	-24.75	-54.28	0.00	1.98	31.51	1.4171
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-21.91	-52.13	0.00	1.96	32.18	1.6506
1880.00	-23.20	-53.17	0.00	2.00	31.97	1.5729
1909.80	-24.27	-54.13	0.00	1.98	31.84	1.5263

GSM1900 (EDGE class 8) Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-26.57	-51.88	0.00	1.96	27.27	0.5334
1880.00	-27.93	-52.99	0.00	2.00	27.06	0.5080
1909.80	-29.70	-54.28	0.00	1.98	26.56	0.4533
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-26.50	-52.13	0.00	1.96	27.59	0.5737
1880.00	-27.85	-53.17	0.00	2.00	27.32	0.5396
1909.80	-29.08	-54.13	0.00	1.98	27.03	0.5048

WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1852.40	-28.13	-51.88	0.00	1.96	25.71	0.3722
1880.00	-29.80	-52.99	0.00	2.00	25.19	0.3303
1907.60	-31.51	-54.28	0.00	1.98	24.75	0.2983
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1852.40	-28.27	-52.13	0.00	1.96	25.82	0.3816
1880.00	-29.83	-53.17	0.00	2.00	25.34	0.3417
1907.60	-31.19	-54.13	0.00	1.98	24.92	0.3108

3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.4.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

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.

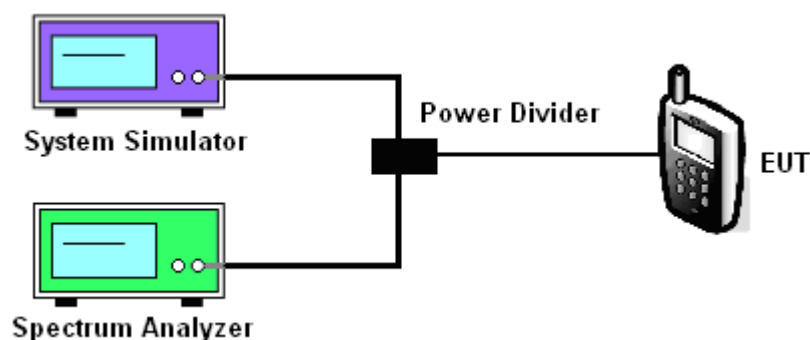
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 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 RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The 99% occupied bandwidth were measured, set RBW= 1% of span, VBW= 3*RBW, sample detector, trace maximum hold.
4. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold.

3.4.4 Test Setup



3.4.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Cellular Band						
Modes	GSM850 (GSM)			GSM850 (EDGE class 8)		
Channel	128 (Low)	189 (Mid)	251 (High)	128 (Low)	189 (Mid)	251 (High)
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8
99% OBW (kHz)	244.00	248.00	246.00	246.00	244.00	246.00
26dB BW (kHz)	314.00	310.00	310.00	306.00	314.00	304.00

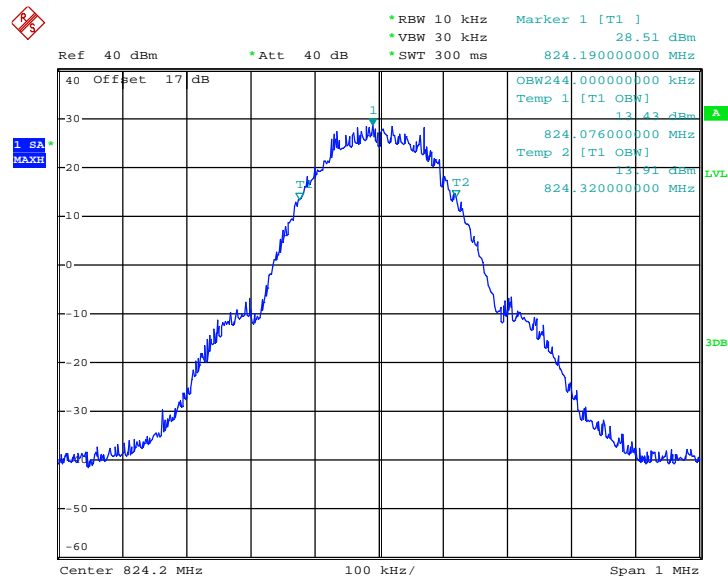
PCS Band						
Modes	GSM1900 (GSM)			GSM1900 (EDGE class 8)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8
99% OBW (kHz)	246.00	246.00	246.00	250.00	250.00	254.00
26dB BW (kHz)	310.00	312.00	310.00	314.00	312.00	324.00

Cellular Band			
Modes	WCDMA Band V (RMC 12.2Kbps)		
Channel	4132 (Low)	4182 (Mid)	4233 (High)
Frequency (MHz)	826.4	836.4	846.6
99% OBW (MHz)	4.16	4.16	4.16
26dB BW (MHz)	4.70	4.72	4.72

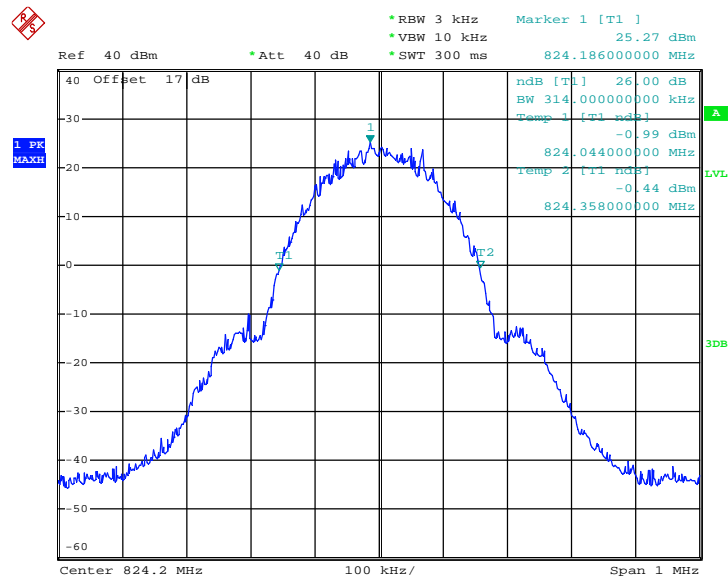
PCS Band			
Modes	WCDMA Band II (RMC 12.2Kbps)		
Channel	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1852.4	1880	1907.6
99% OBW (MHz)	4.16	4.16	4.16
26dB BW (MHz)	4.72	4.70	4.70

3.4.6 Test Result (Plots) of 99% Occupied Bandwidth and 26dB Bandwidth

Band :	GSM 850	Test Mode :	GSM Link (GMSK)
---------------	---------	--------------------	-----------------

99% Occupied Bandwidth Plot on Channel 128 (824.2 MHz)


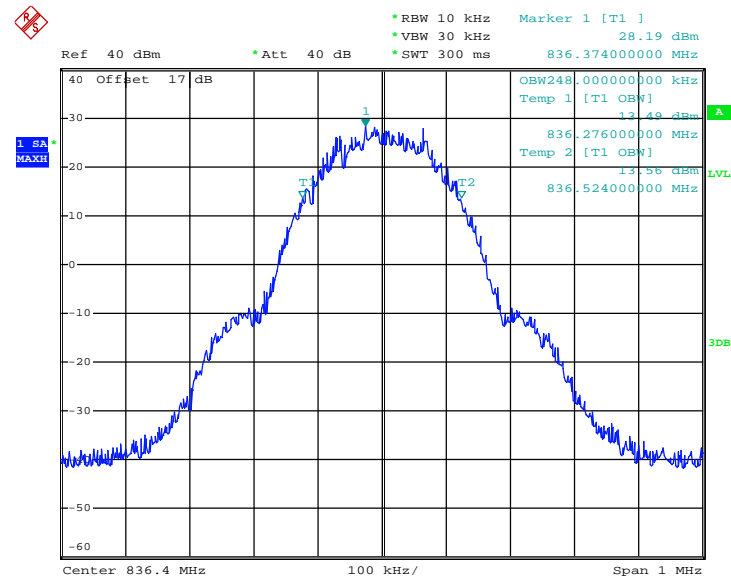
Date: 1.JAN.2014 15:45:25

26dB Bandwidth Plot on Channel 128 (824.2 MHz)


Date: 1.JAN.2014 15:36:32

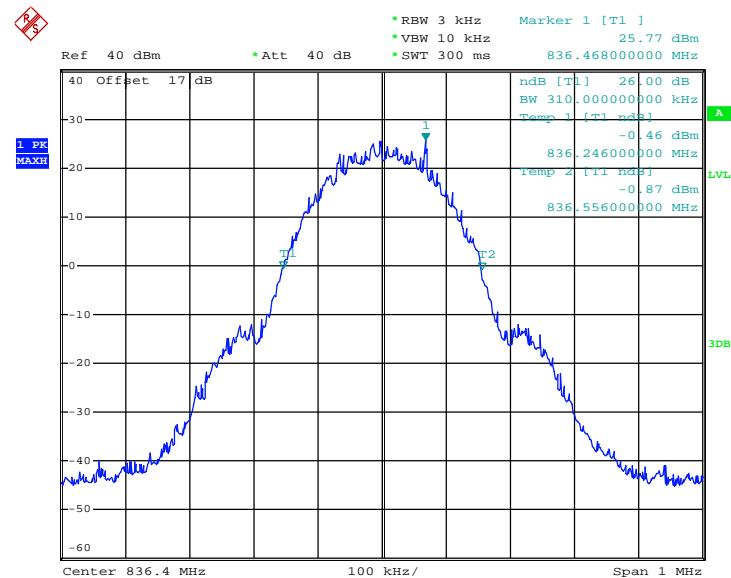


99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



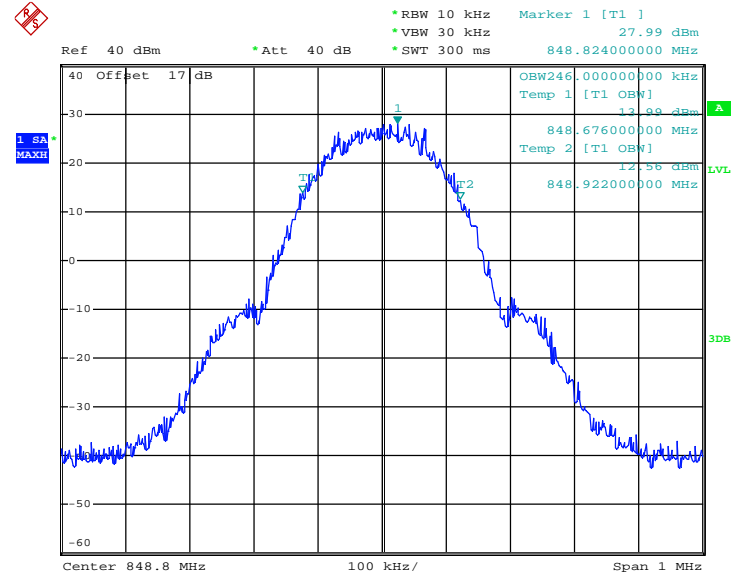
Date: 1.JAN.2014 15:42:23

26dB Bandwidth Plot on Channel 189 (836.4 MHz)



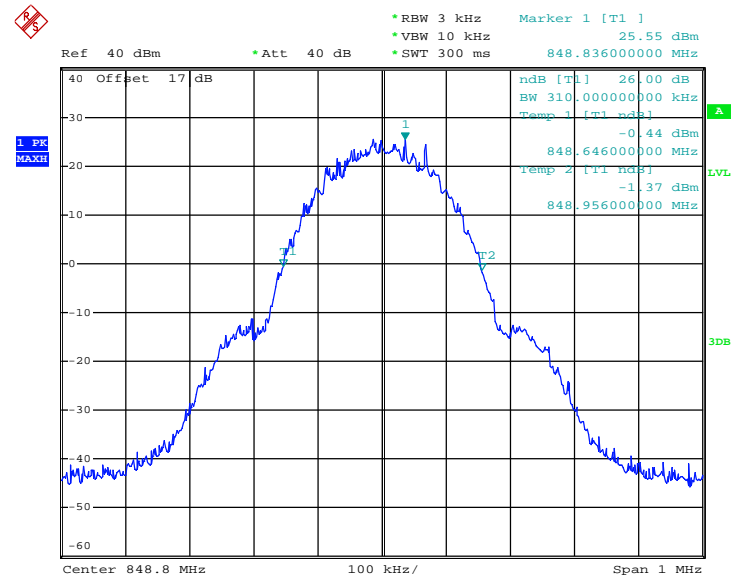
Date: 1.JAN.2014 15:34:53

99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 1.JAN.2014 15:40:32

26dB Bandwidth Plot on Channel 251 (848.8 MHz)

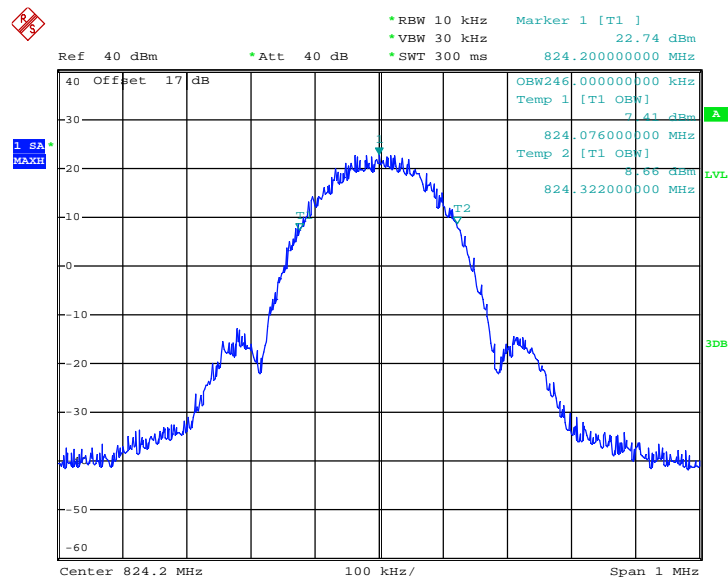


Date: 1.JAN.2014 15:38:44



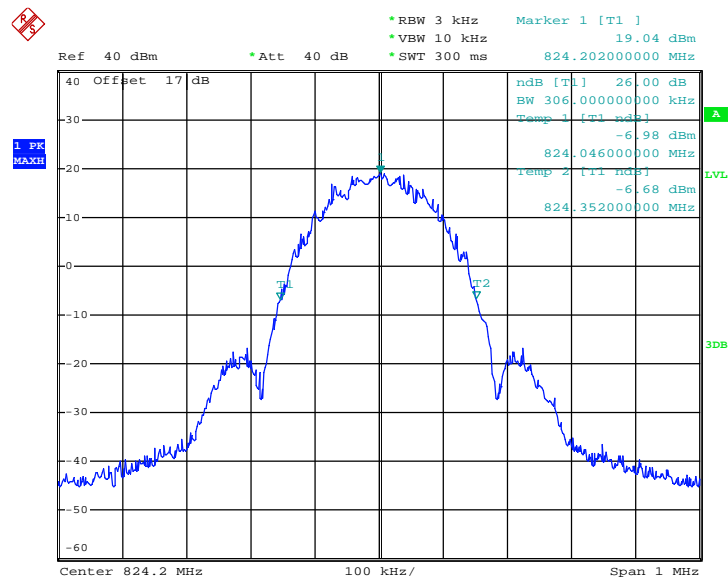
Band :	GSM 850	Test Mode :	EDGE class 8 Link (8PSK)
--------	---------	-------------	--------------------------

99% Occupied Bandwidth Plot on Channel 128 (824.2 MHz)



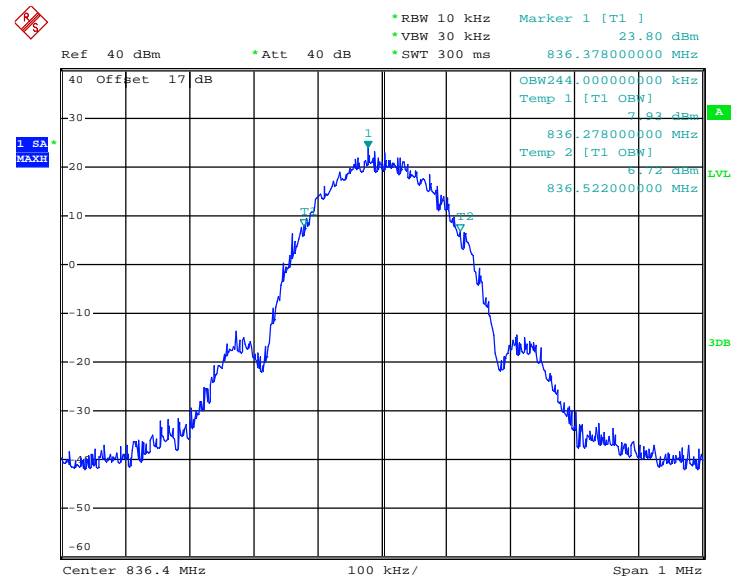
Date: 1.JAN.2014 15:09:32

26dB Bandwidth Plot on Channel 128 (824.2 MHz)



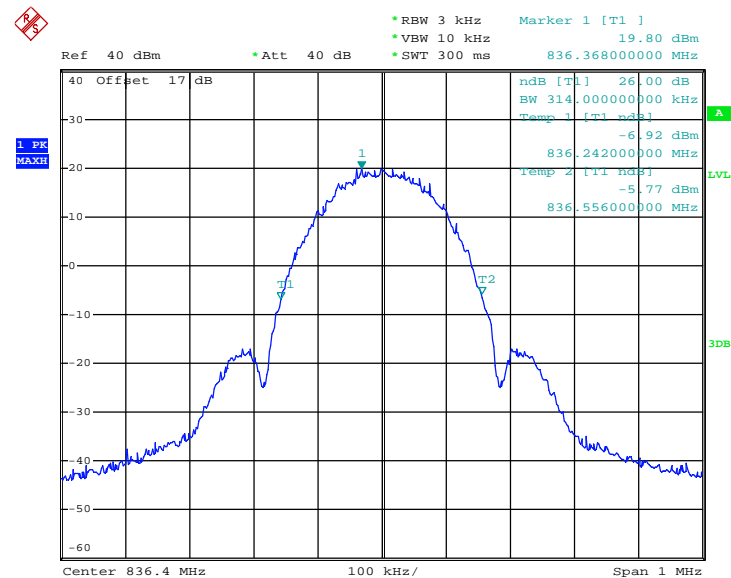
Date: 1.JAN.2014 14:57:35

99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



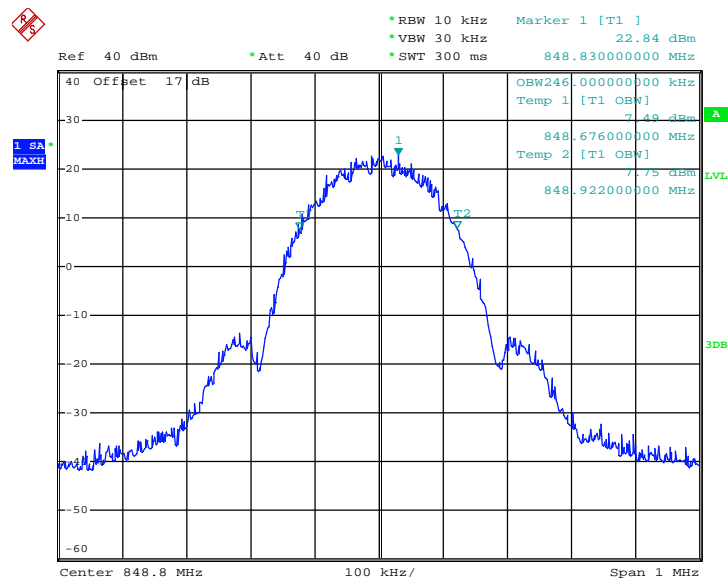
Date: 1.JAN.2014 15:07:01

26dB Bandwidth Plot on Channel 189 (836.4 MHz)



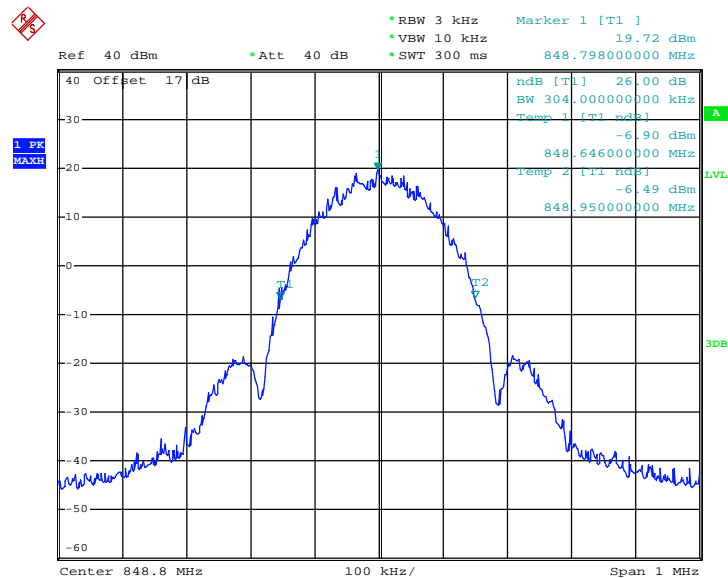
Date: 1.JAN.2014 14:55:15

99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 1.JAN.2014 15:04:58

26dB Bandwidth Plot on Channel 251 (848.8 MHz)

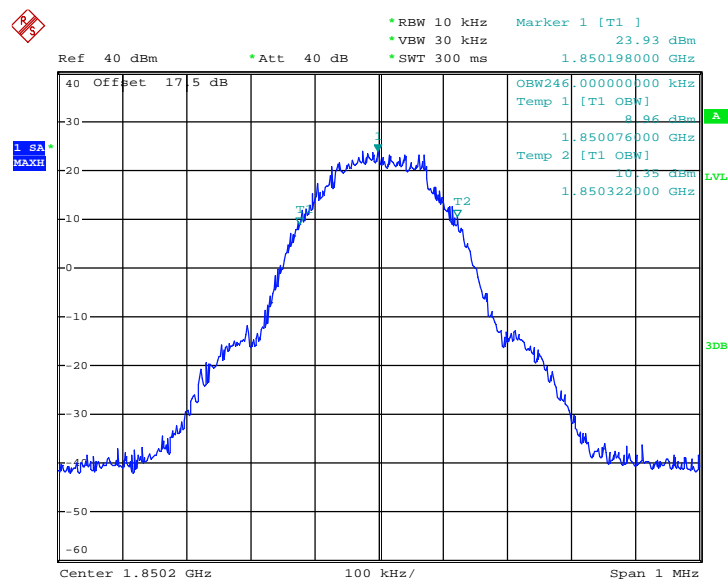


Date: 1.JAN.2014 14:59:49



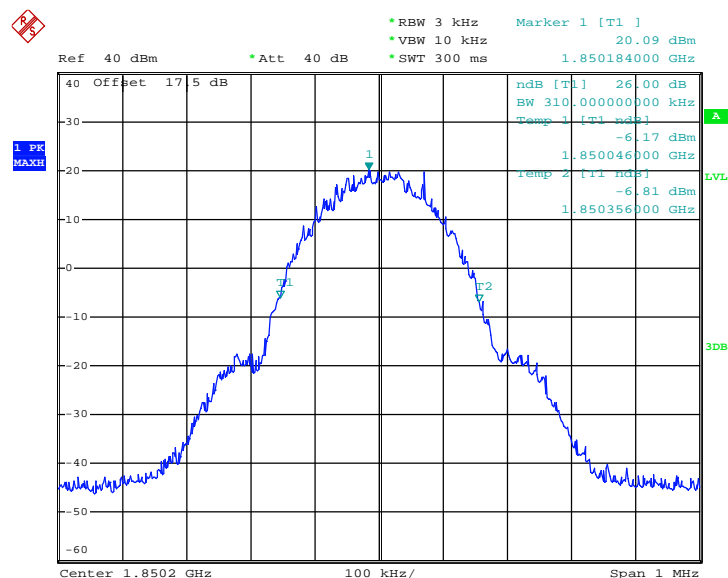
Band :	GSM 1900	Test Mode :	GSM Link (GMSK)
--------	----------	-------------	-----------------

99% Occupied Bandwidth Plot on Channel 512 (1850.2 MHz)



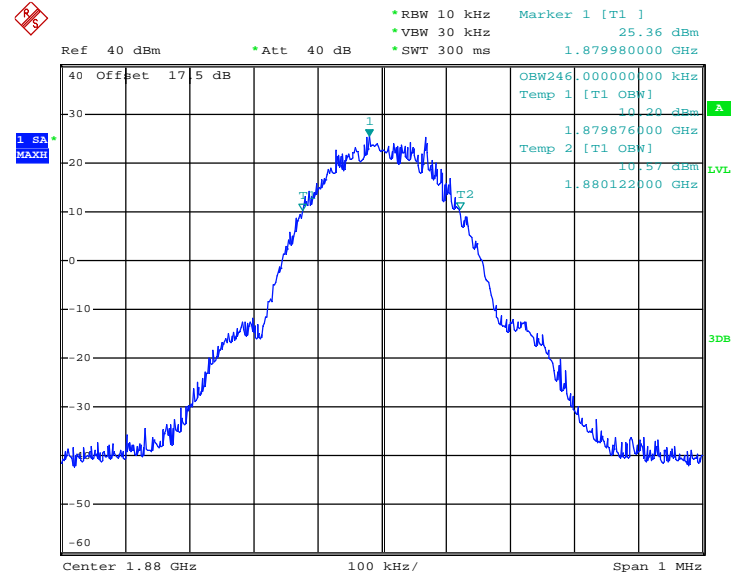
Date: 1.JAN.2014 16:04:25

26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



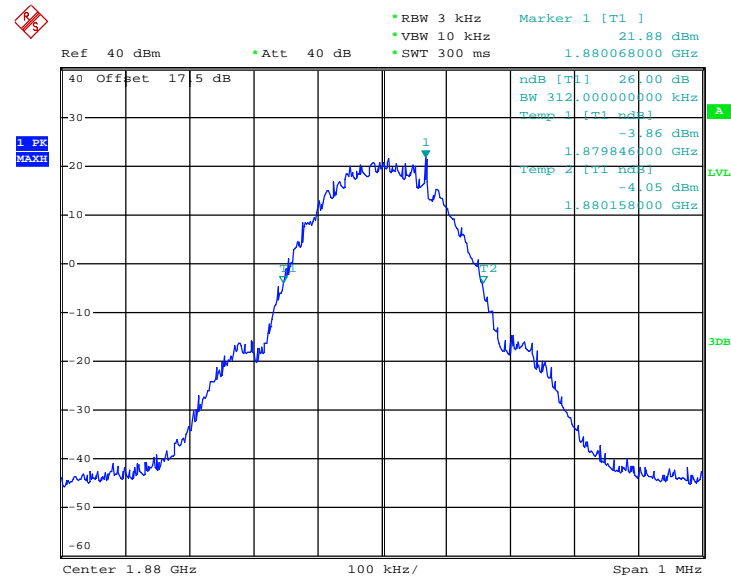
Date: 1.JAN.2014 15:55:57

99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



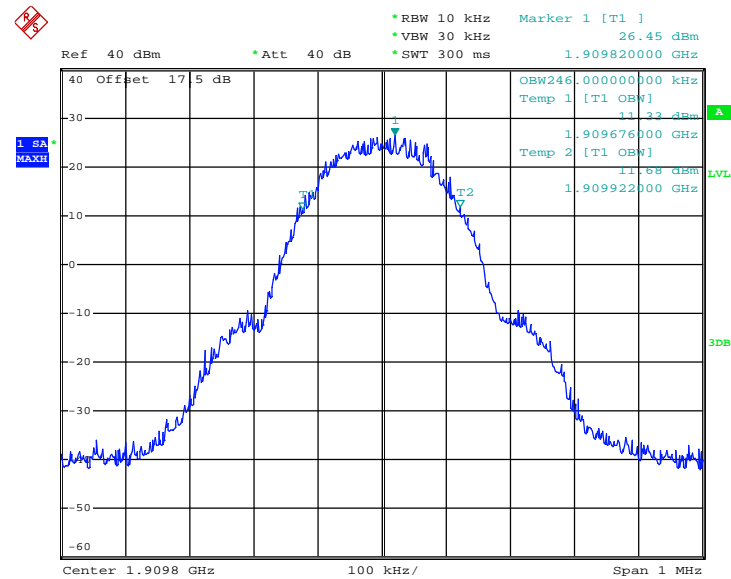
Date: 1.JAN.2014 16:01:41

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



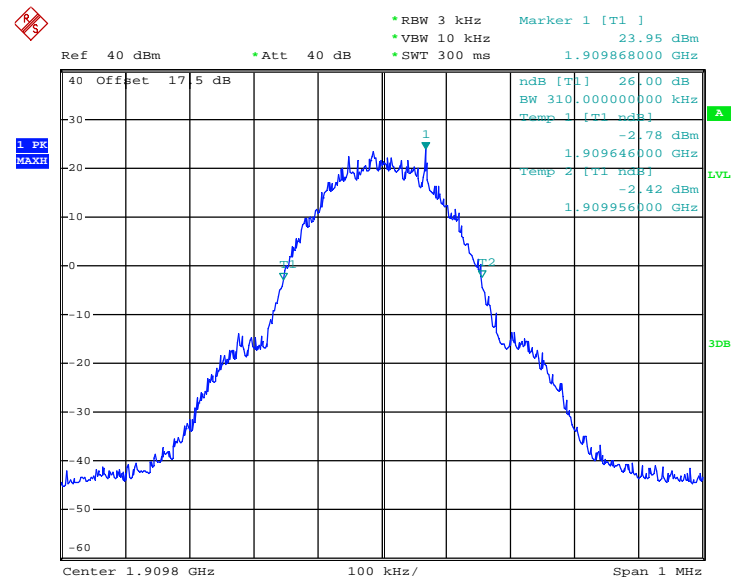
Date: 1.JAN.2014 15:54:30

99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



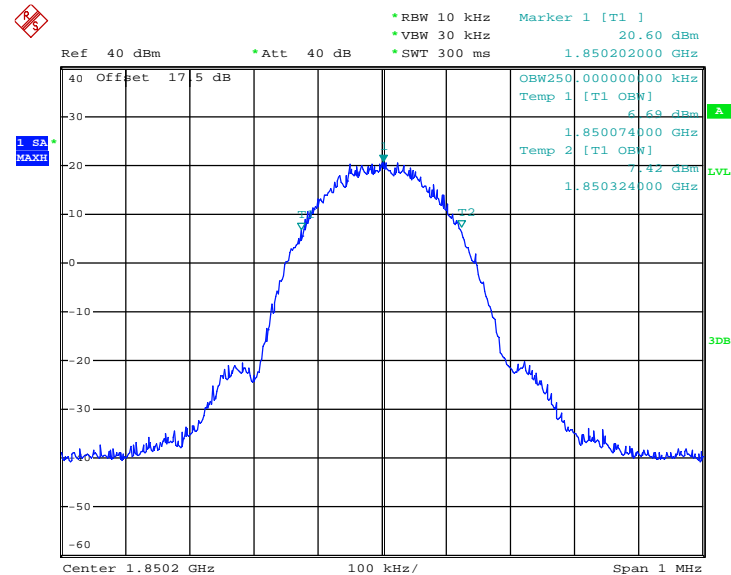
Date: 1.JAN.2014 15:59:57

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

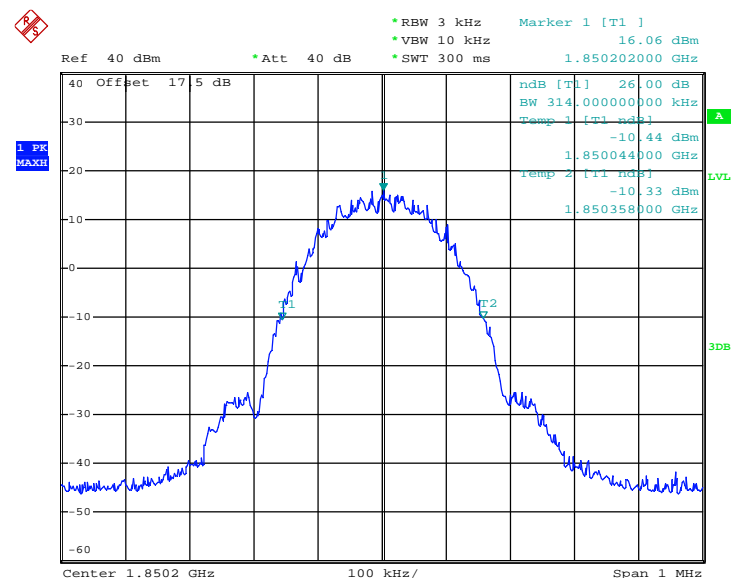


Date: 1.JAN.2014 15:57:31

Band :	GSM 1900	Test Mode :	EDGE class 8 Link (8PSK)
---------------	-----------------	--------------------	---------------------------------

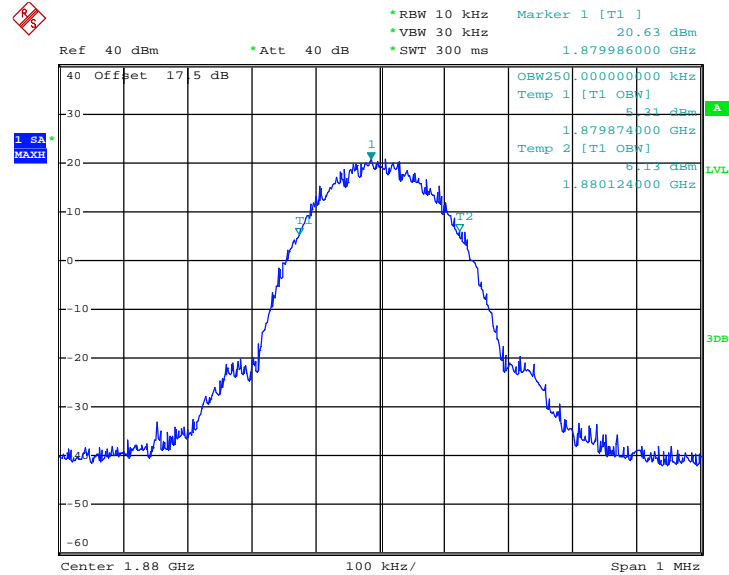
99% Occupied Bandwidth Plot on Channel 512 (1850.2 MHz)


Date: 1.JAN.2014 16:48:48

26dB Bandwidth Plot on Channel 512 (1850.2 MHz)


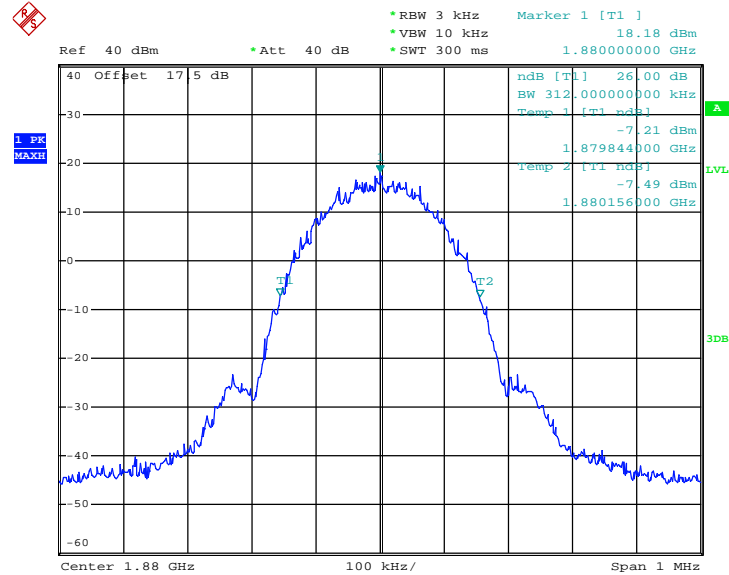
Date: 1.JAN.2014 16:22:11

99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



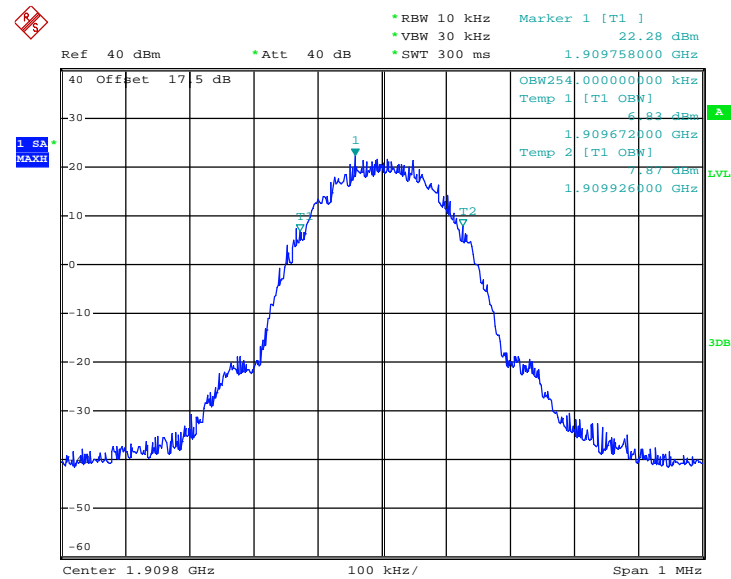
Date: 1.JAN.2014 16:31:18

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



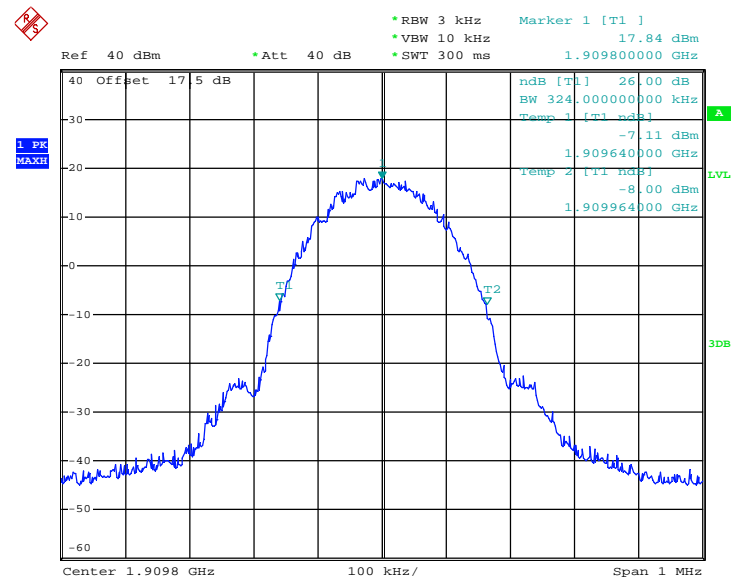
Date: 1.JAN.2014 16:20:37

99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 1.JAN.2014 16:28:21

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

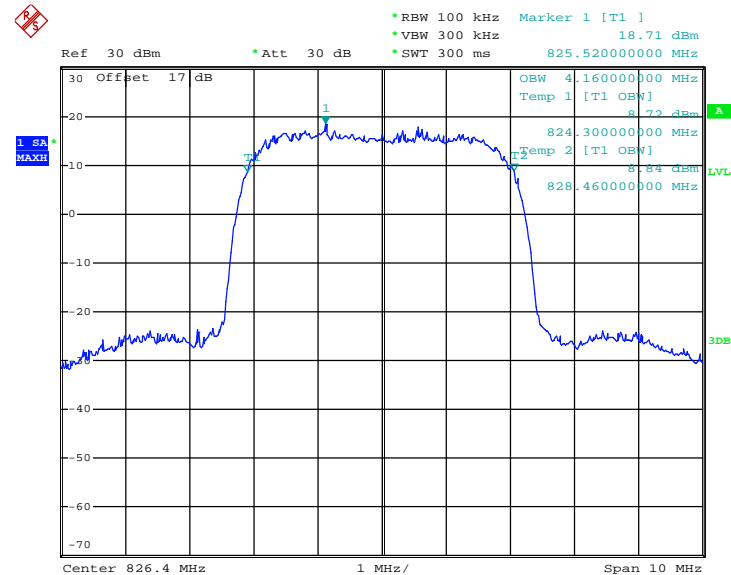


Date: 1.JAN.2014 16:25:16



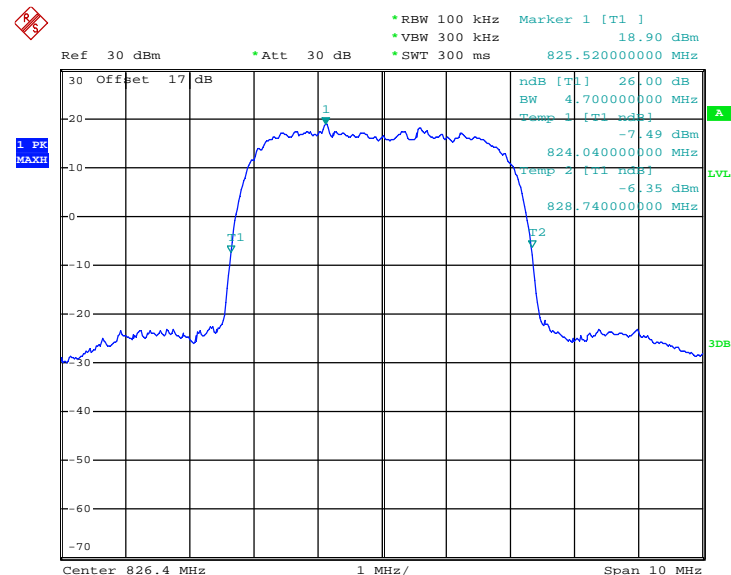
Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link (QPSK)
--------	--------------	-------------	--------------------------

99% Occupied Bandwidth Plot on Channel 4132 (826.4 MHz)



Date: 1.JAN.2014 17:41:53

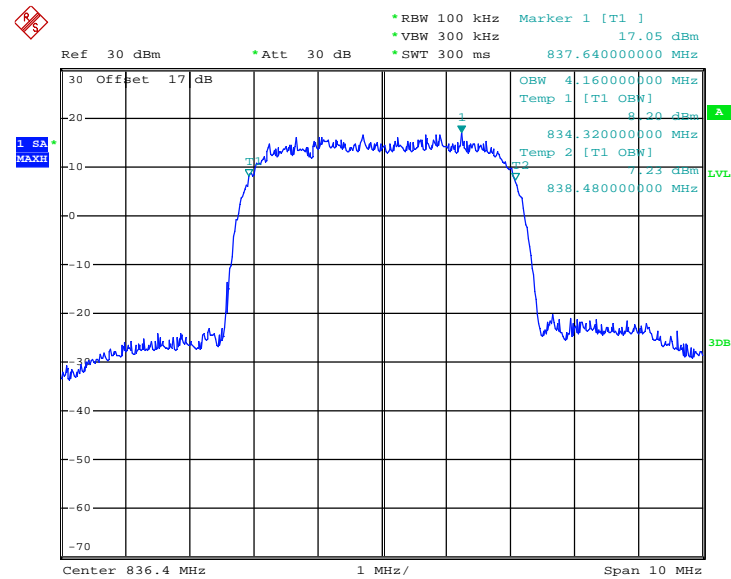
26dB Bandwidth Plot on Channel 4132 (826.4 MHz)



Date: 1.JAN.2014 17:53:13

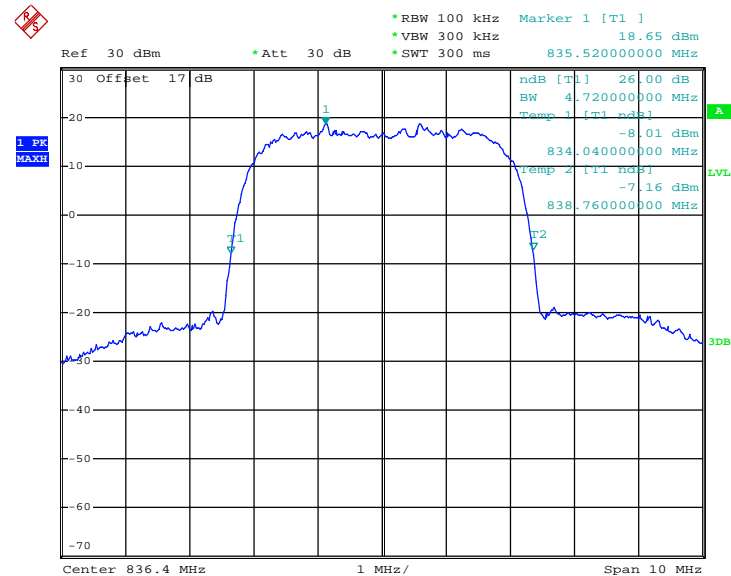


99% Occupied Bandwidth Plot on Channel 4182 (836.4 MHz)



Date: 1.JAN.2014 17:43:24

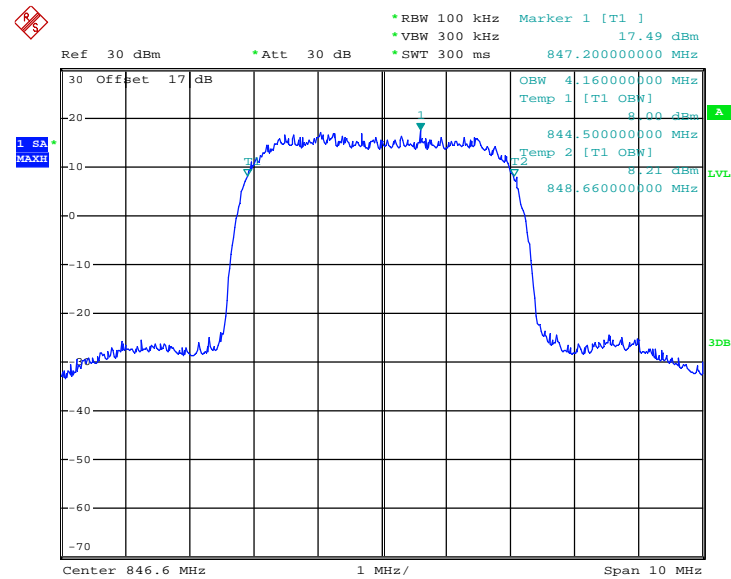
26dB Bandwidth Plot on Channel 4182 (836.4 MHz)



Date: 1.JAN.2014 17:57:49

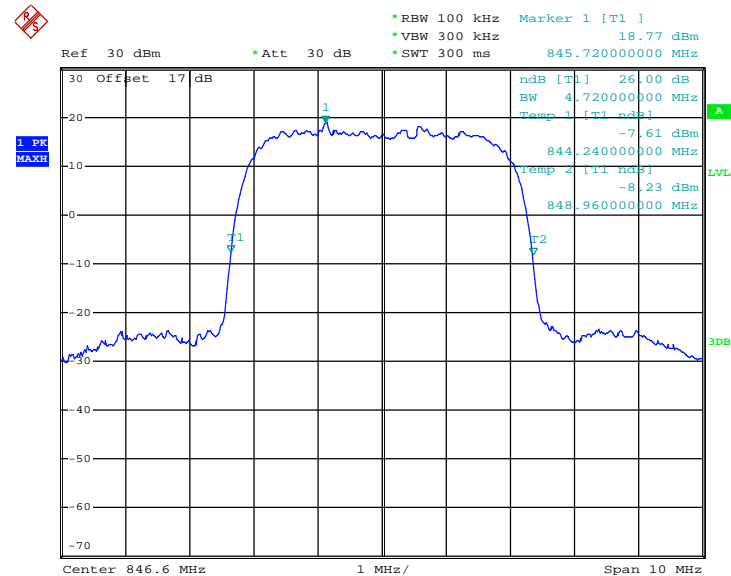


99% Occupied Bandwidth Plot on Channel 4233 (846.6 MHz)



Date: 1.JAN.2014 17:24:58

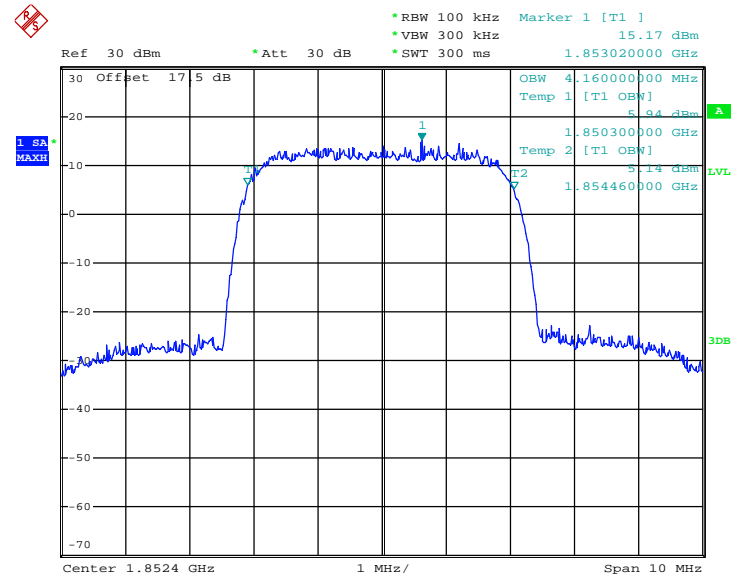
26dB Bandwidth Plot on Channel 4233 (846.6 MHz)



Date: 1.JAN.2014 17:56:44

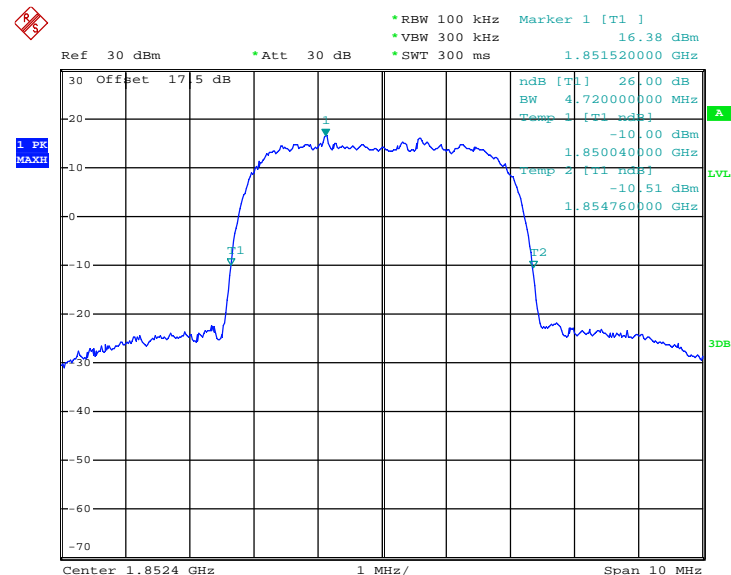
Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link (QPSK)
--------	---------------	-------------	--------------------------

99% Occupied Bandwidth Plot on Channel 9262 (1852.4 MHz)

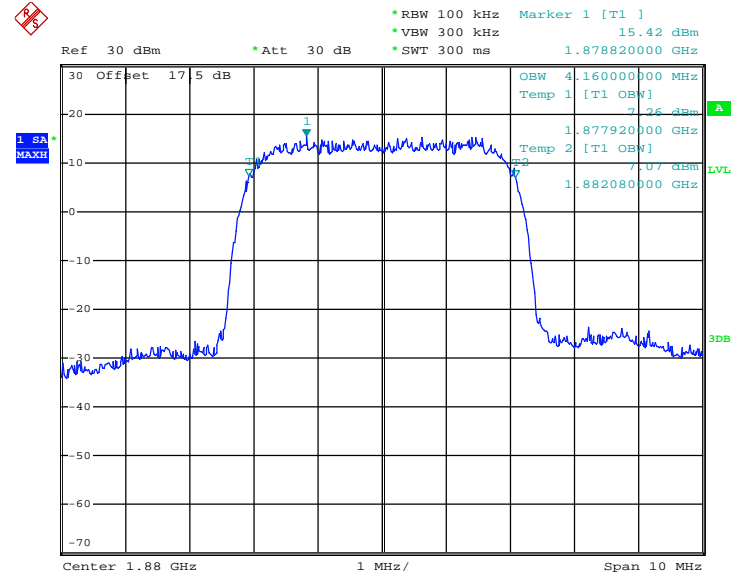


Date: 1.JAN.2014 16:57:28

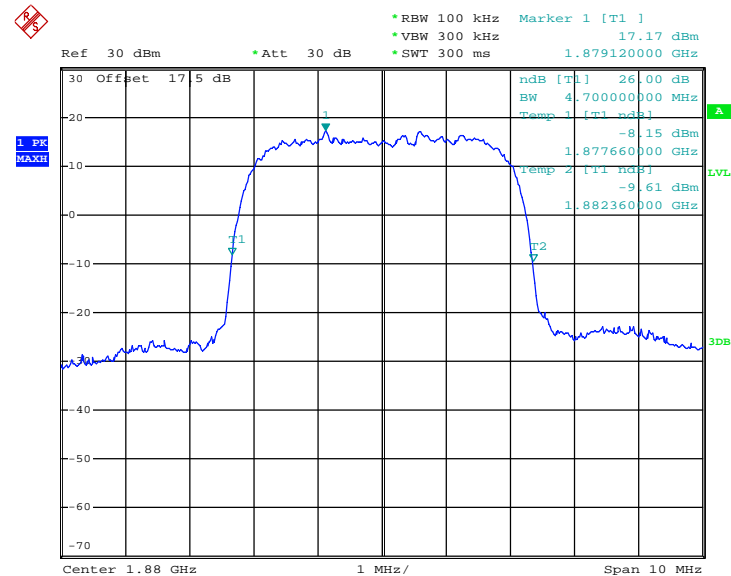
26dB Bandwidth Plot on Channel 9262 (1852.4 MHz)



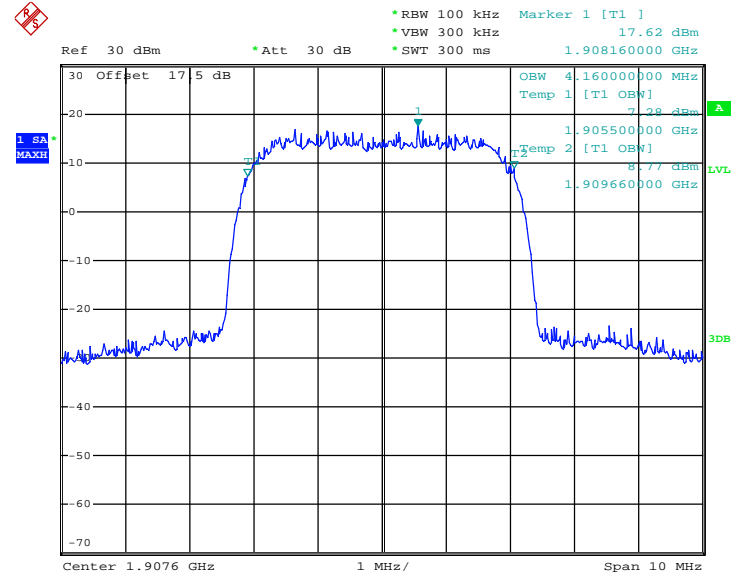
Date: 1.JAN.2014 16:55:49

99% Occupied Bandwidth Plot on Channel 9400 (1880.0 MHz)


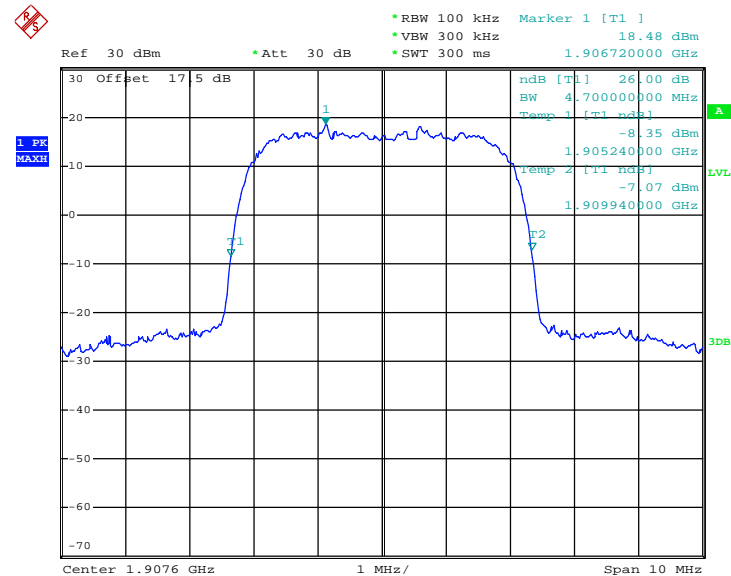
Date: 1.JAN.2014 17:01:22

26dB Bandwidth Plot on Channel 9400 (1880.0 MHz)


Date: 1.JAN.2014 16:53:57

99% Occupied Bandwidth Plot on Channel 9538 (1907.6 MHz)


Date: 1.JAN.2014 16:59:05

26dB Bandwidth Plot on Channel 9538 (1907.6 MHz)


Date: 1.JAN.2014 16:54:56

3.5 Band Edge Measurement

3.5.1 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.

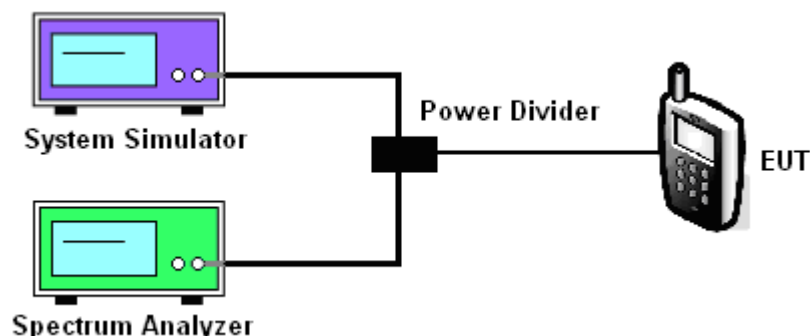
3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 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 RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The band edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
5. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

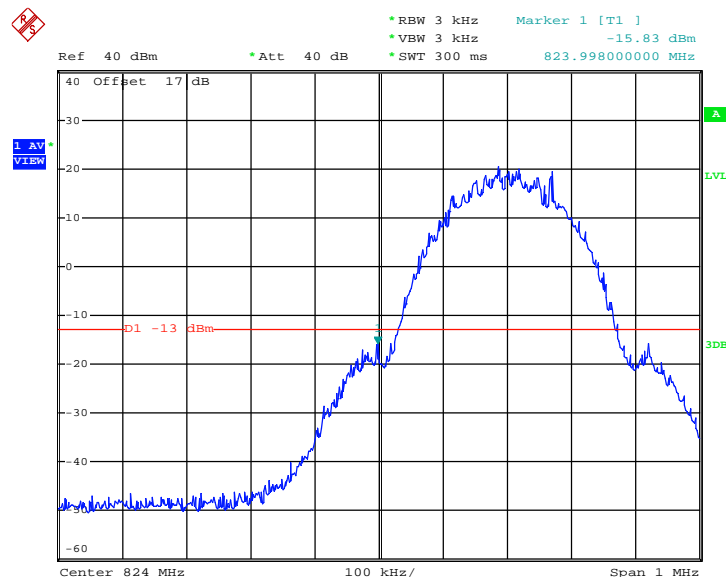
3.5.4 Test Setup



3.5.5 Test Result (Plots) of Conducted Band Edge

Band :	GSM850	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-15.63dBm	Measurement Value :	-15.83dBm

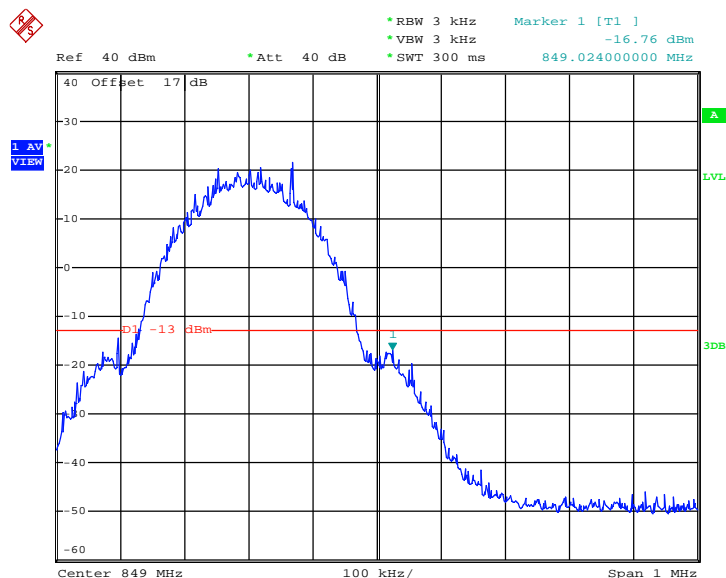
Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 1.JAN.2014 15:48:29

1. Correction Factor(dB)= $10\log(1\% \text{ Emission BW/RBW})$
 2. Band Edge= Measurement Value + Correction Factor(dB)
- For example, $-15.83\text{dBm} + 0.20\text{dB} = -15.63\text{dBm}$

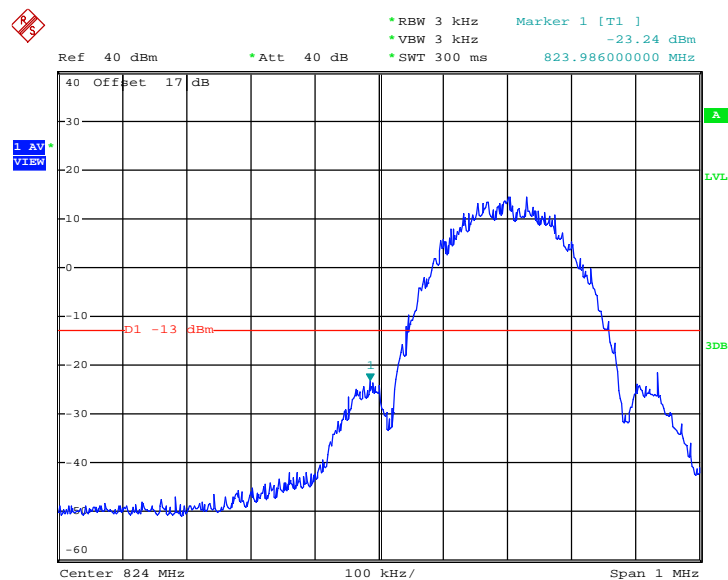
Band :	GSM850	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-16.56dBm	Measurement Value :	-16.76dBm

Higher Band Edge Plot on Channel 251 (848.8 MHz)


Date: 1.JAN.2014 15:50:42

1. Correction Factor(dB)= $10\log(1\% \text{ Emission BW/RBW})$
2. Band Edge= Measurement Value + Correction Factor(dB)

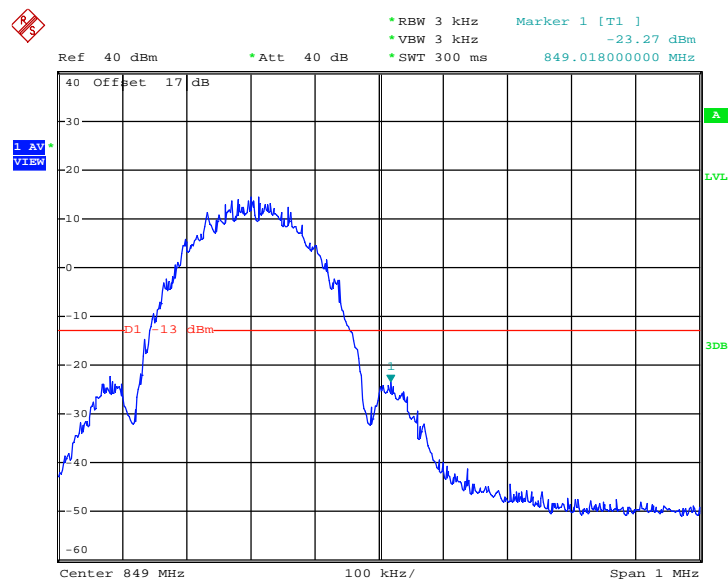
Band :	GSM850	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-23.04dBm	Measurement Value :	-23.24dBm

Lower Band Edge Plot on Channel 128 (824.2 MHz)


Date: 1.JAN.2014 15:12:22

1. Correction Factor(dB)= $10\log(1\% \text{ Emission BW/RBW})$
2. Band Edge= Measurement Value + Correction Factor(dB)

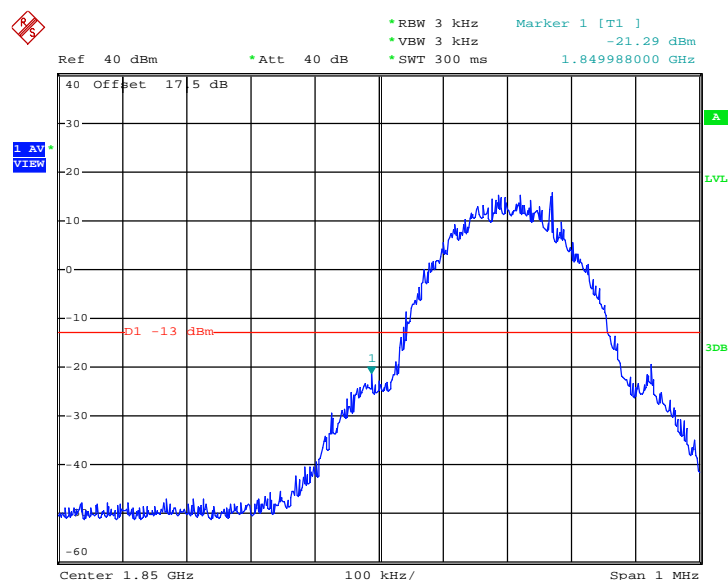
Band :	GSM850	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-23.07dBm	Measurement Value :	-23.27dBm

Higher Band Edge Plot on Channel 251 (848.8 MHz)


Date: 1.JAN.2014 15:15:28

1. Correction Factor(dB)= $10\log(1\% \text{ Emission BW/RBW})$
2. Band Edge= Measurement Value + Correction Factor(dB)

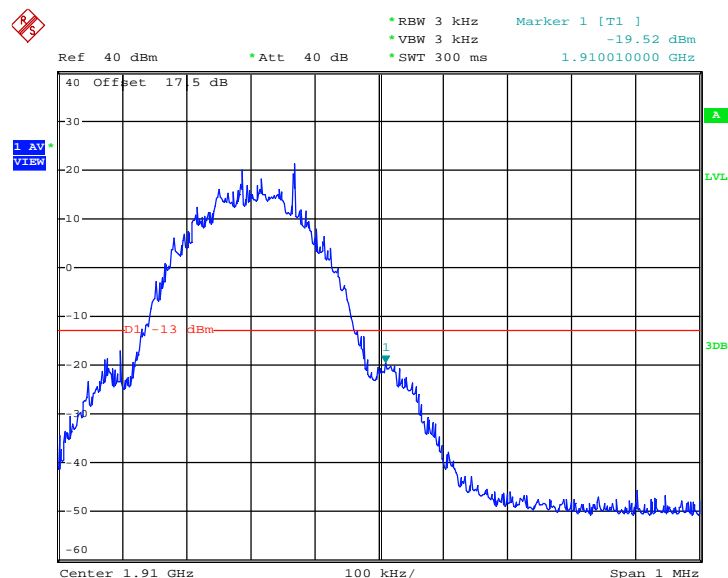
Band :	GSM1900	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.17dB	Maximum 26dB Bandwidth :	0.312MHz
Band Edge :	-21.12dBm	Measurement Value :	-21.29dBm

Lower Band Edge Plot on Channel 512 (1850.2 MHz)


Date: 1.JAN.2014 16:05:57

1. Correction Factor(dB)= $10\log(1\% \text{ Emission BW/RBW})$
2. Band Edge= Measurement Value + Correction Factor(dB)

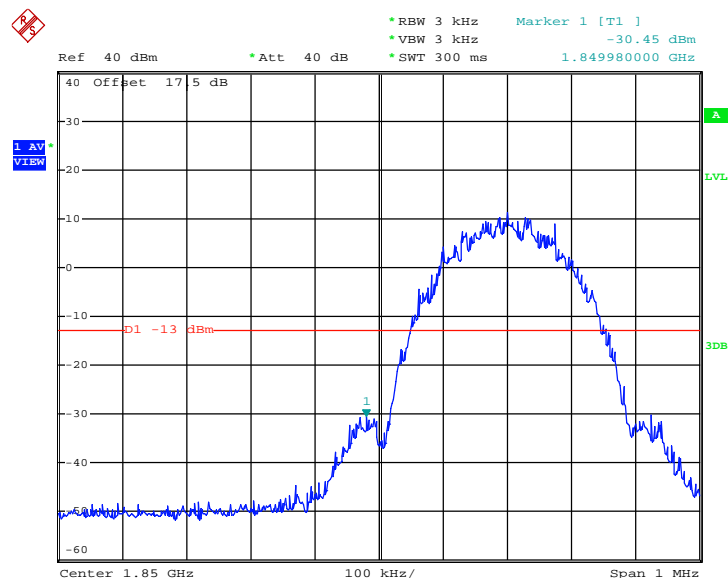
Band :	GSM1900	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.17dB	Maximum 26dB Bandwidth :	0.312MHz
Band Edge :	-19.35dBm	Measurement Value :	-19.52dBm

Higher Band Edge Plot on Channel 810 (1909.8 MHz)


Date: 1.JAN.2014 16:07:16

1. Correction Factor(dB)= $10\log(1\% \text{ Emission BW/RBW})$
2. Band Edge= Measurement Value + Correction Factor(dB)

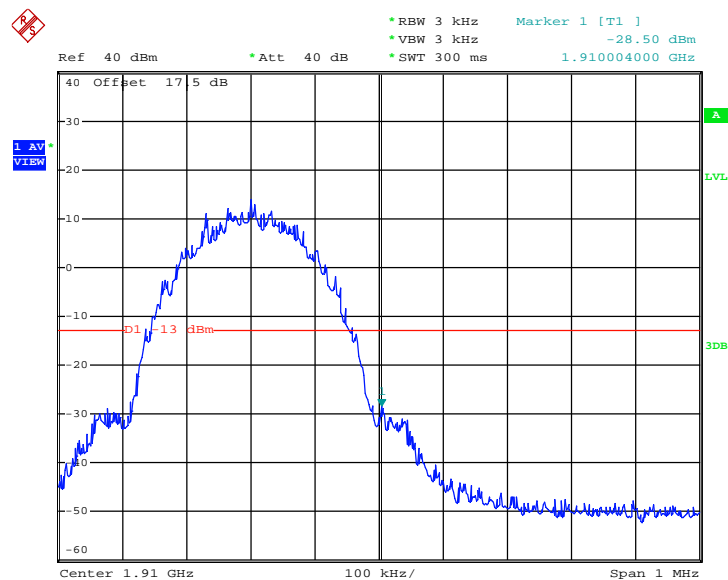
Band :	GSM1900	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor :	0.33dB	Maximum 26dB Bandwidth :	0.324MHz
Band Edge :	-30.12dBm	Measurement Value :	-30.45dBm

Lower Band Edge Plot on Channel 512 (1850.2 MHz)


Date: 1.JAN.2014 16:50:27

1. Correction Factor(dB)= $10\log(1\% \text{ Emission BW/RBW})$
2. Band Edge= Measurement Value + Correction Factor(dB)

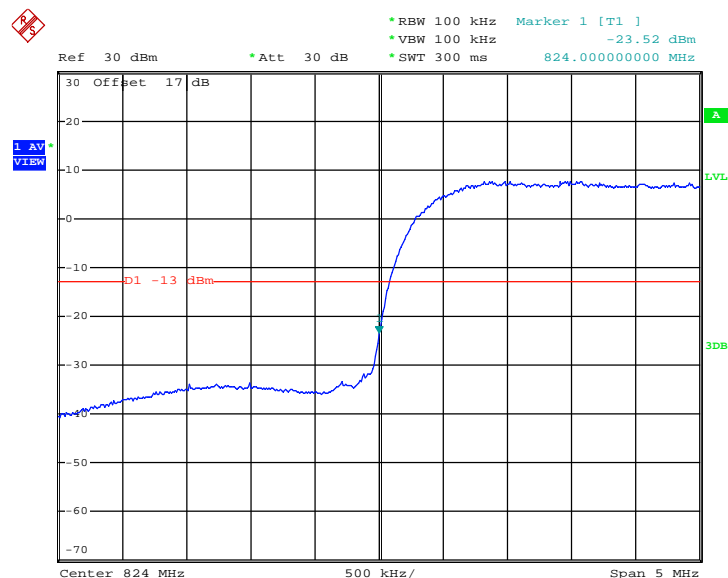
Band :	GSM1900	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor :	0.33dB	Maximum 26dB Bandwidth :	0.324MHz
Band Edge :	-28.17dBm	Measurement Value :	-28.50dBm

Higher Band Edge Plot on Channel 810 (1909.8 MHz)


Date: 1.JAN.2014 16:51:36

1. Correction Factor(dB)= $10\log(1\% \text{ Emission BW/RBW})$
2. Band Edge= Measurement Value + Correction Factor(dB)

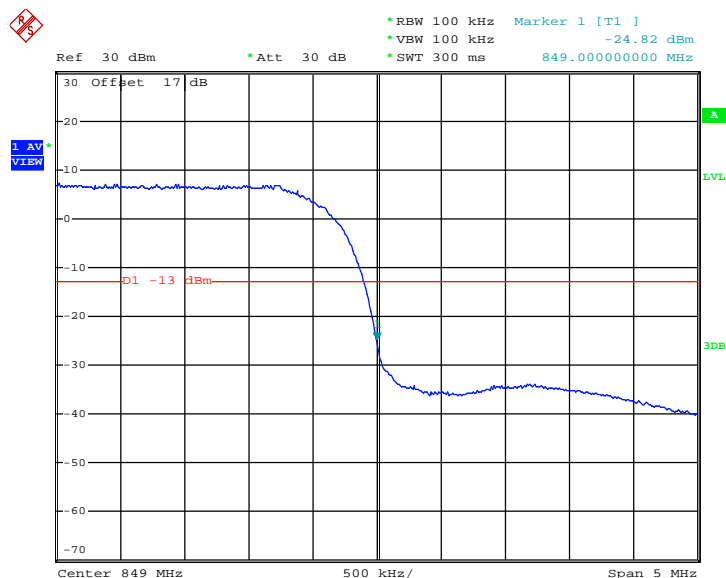
Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.26dB	Maximum 26dB Bandwidth :	4.720MHz
Band Edge :	-26.78dBm	Measurement Value :	-23.52dBm

Lower Band Edge Plot on Channel 4132 (826.4 MHz)


Date: 1.JAN.2014 17:46:04

1. Correction Factor(dB)= $10\log(1\% \text{ Emission BW/RBW})$
2. Band Edge= Measurement Value + Correction Factor(dB)

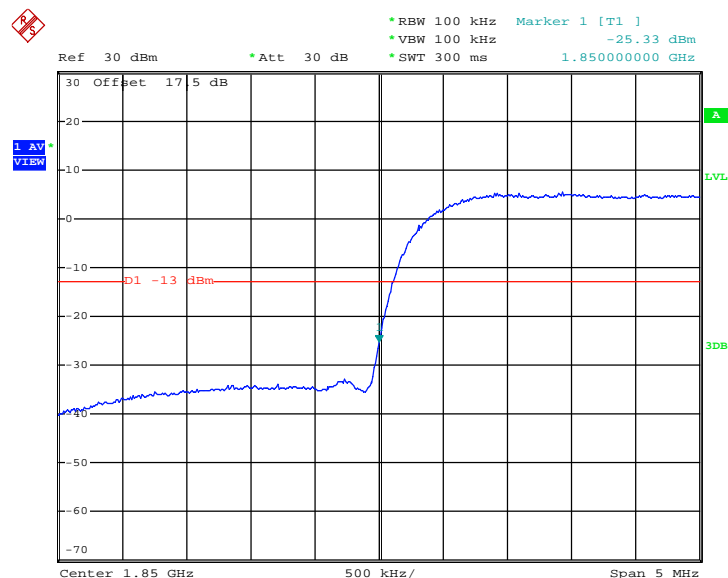
Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.26dB	Maximum 26dB Bandwidth :	4.720MHz
Band Edge :	-28.08dBm	Measurement Value :	-24.82dBm

Higher Band Edge Plot on Channel 4233 (846.6 MHz)


Date: 1.JAN.2014 17:45:41

1. Correction Factor(dB)= $10\log(1\% \text{ Emission BW/RBW})$
2. Band Edge= Measurement Value + Correction Factor(dB)

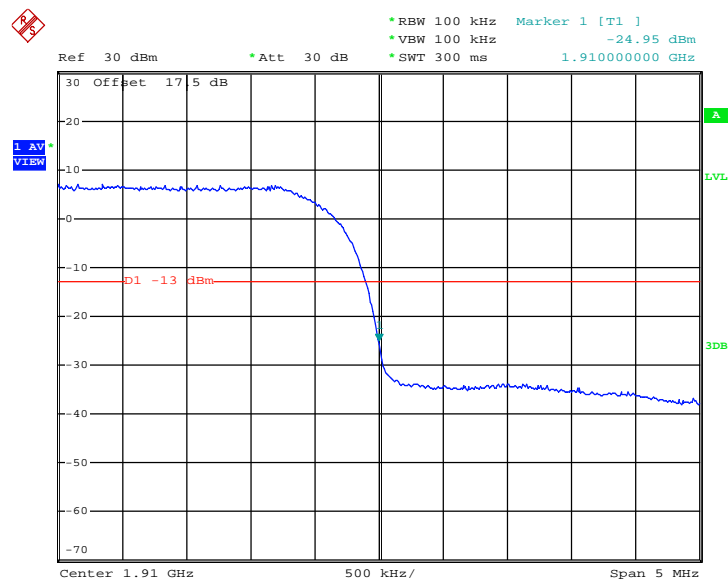
Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.26dB	Maximum 26dB Bandwidth :	4.720MHz
Band Edge :	-28.59dBm	Measurement Value :	-25.33dBm

Lower Band Edge Plot on Channel 9262 (1852.4 MHz)


Date: 1.JAN.2014 17:06:13

1. Correction Factor(dB)= $10\log(1\% \text{ Emission BW/RBW})$
2. Band Edge= Measurement Value + Correction Factor(dB)

Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.26dB	Maximum 26dB Bandwidth :	4.720MHz
Band Edge :	-28.21dBm	Measurement Value :	-24.95dBm

Higher Band Edge Plot on Channel 9538 (1907.6 MHz)


Date: 1.JAN.2014 17:06:33

1. Correction Factor(dB)= $10\log(1\% \text{ Emission BW/RBW})$
2. Band Edge= Measurement Value + Correction Factor(dB)

3.6 Conducted Spurious Emission Measurement

3.6.1 Description of Conducted Spurious 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.

3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

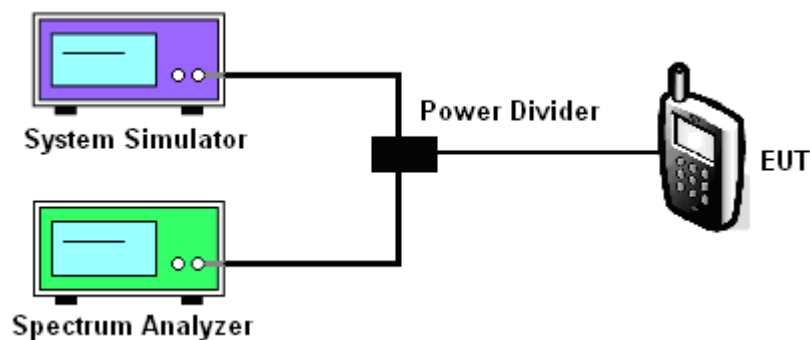
1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}$$

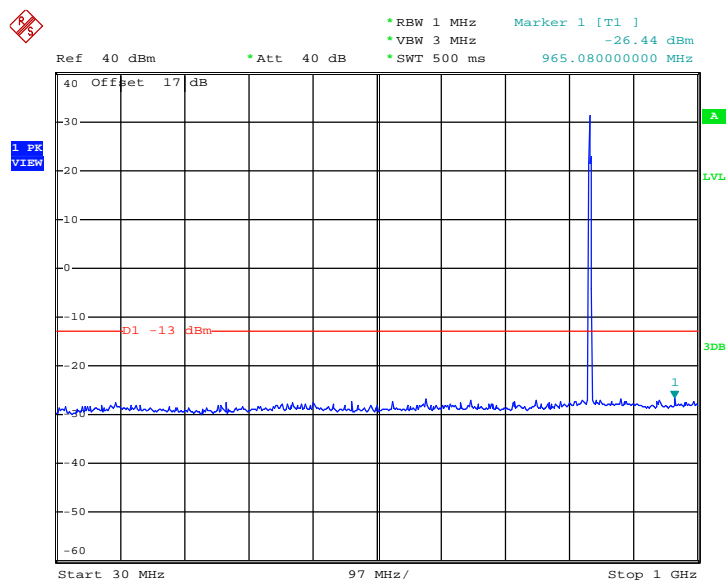
3.6.4 Test Setup



3.6.5 Test Result (Plots) of Conducted Spurious Emission

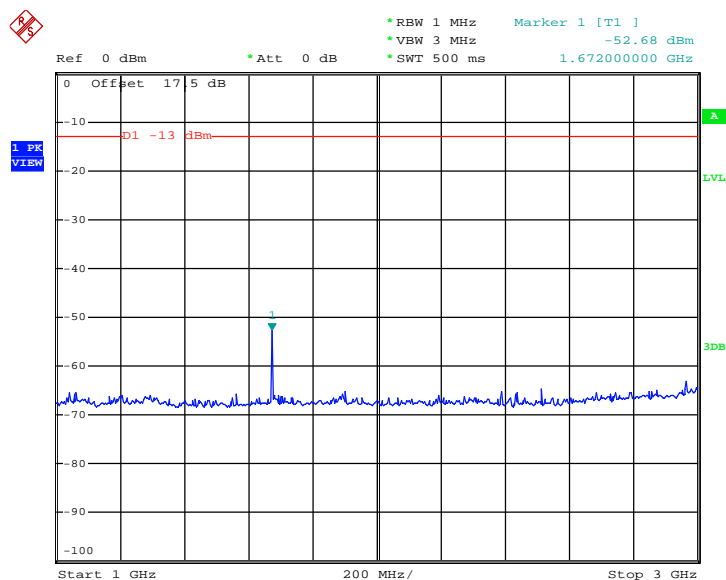
Band :	GSM850	Channel :	CH189
Test Mode :	GSM Link (GMSK)	Frequency :	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



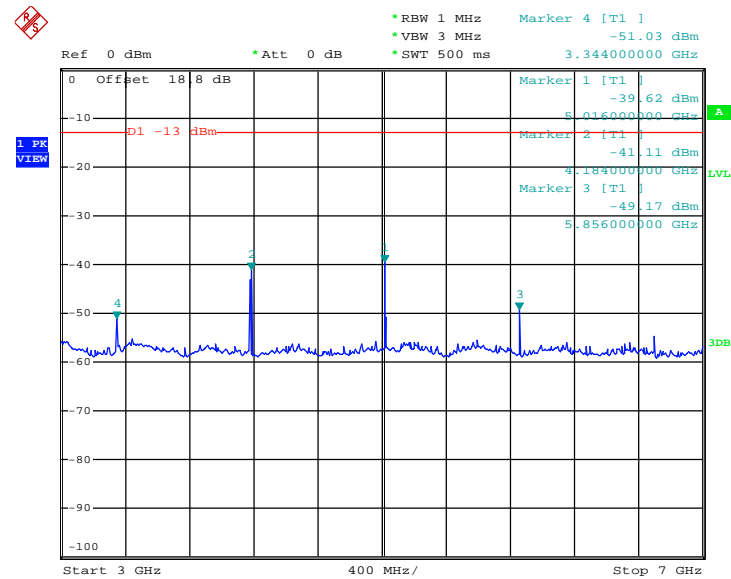
Date: 1.JAN.2014 15:32:57

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



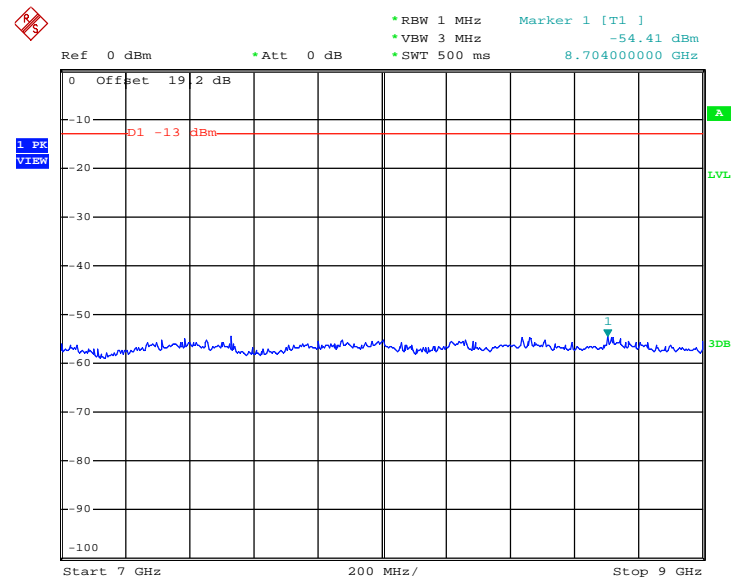
Date: 1.JAN.2014 15:31:47

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



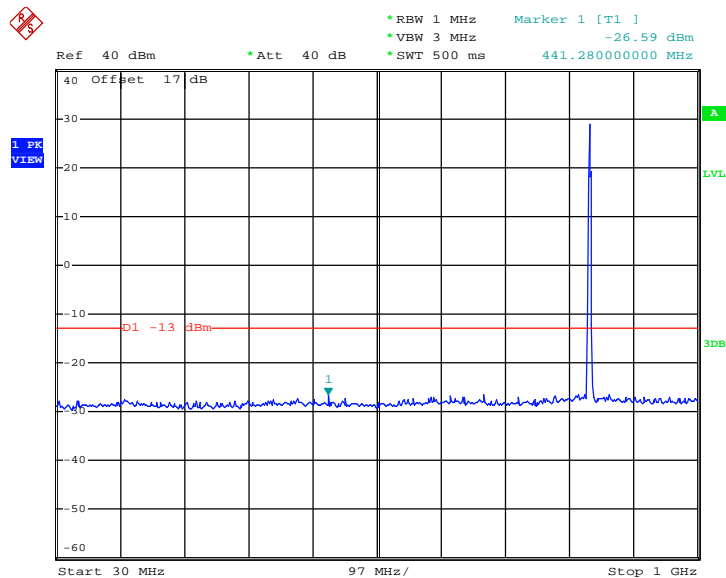
Date: 1.JAN.2014 15:30:25

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

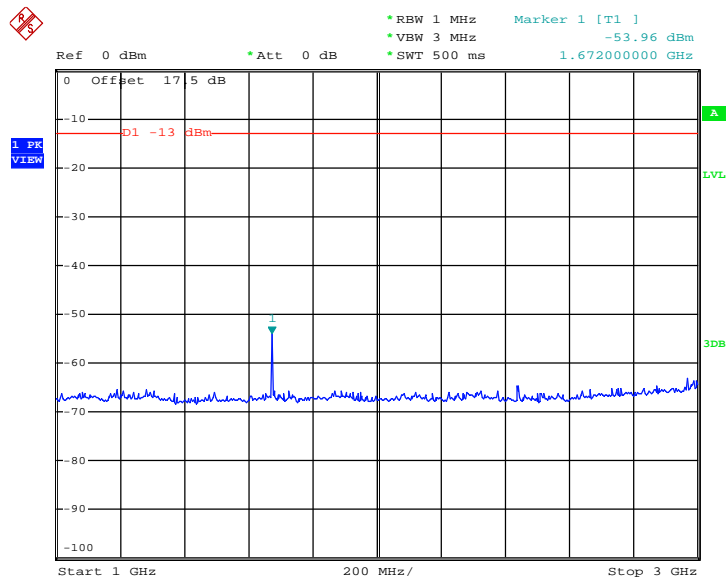


Date: 1.JAN.2014 15:28:29

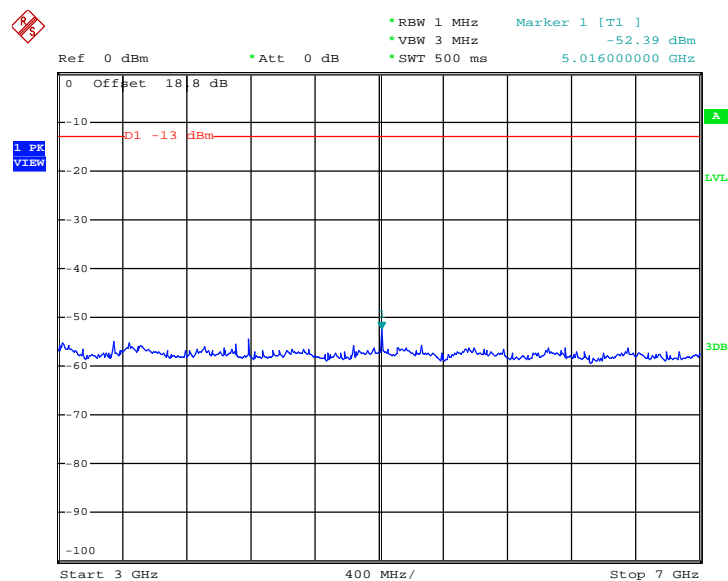
Band :	GSM850	Channel :	CH189
Test Mode :	EDGE class 8 Link (8PSK)	Frequency :	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz


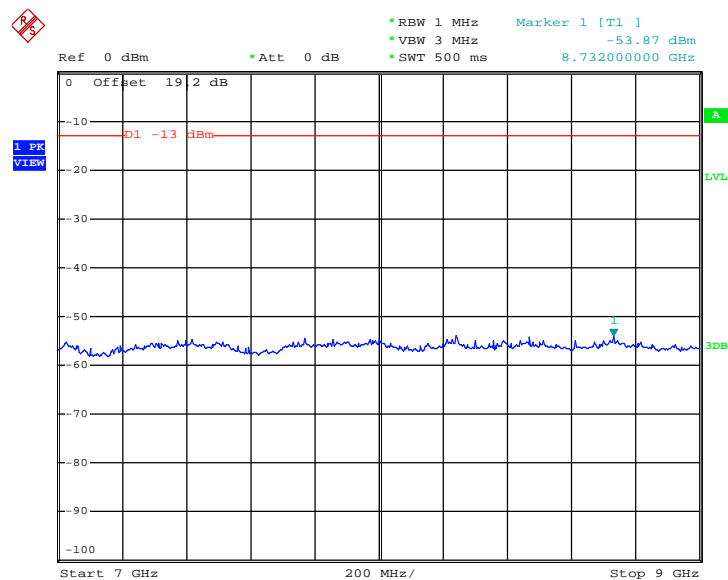
Date: 1.JAN.2014 15:16:54

Conducted Spurious Emission Plot between 1GHz ~ 3GHz


Date: 1.JAN.2014 15:21:14

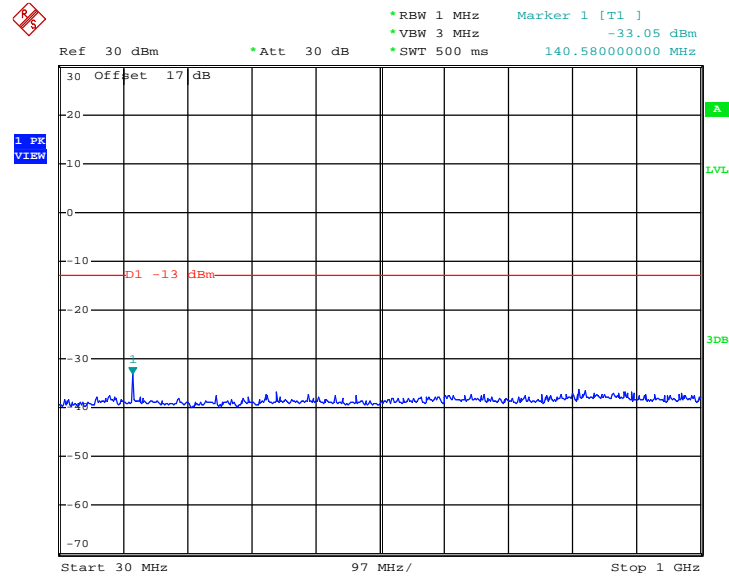
Conducted Spurious Emission Plot between 3GHz ~ 7GHz


Date: 1.JAN.2014 15:22:36

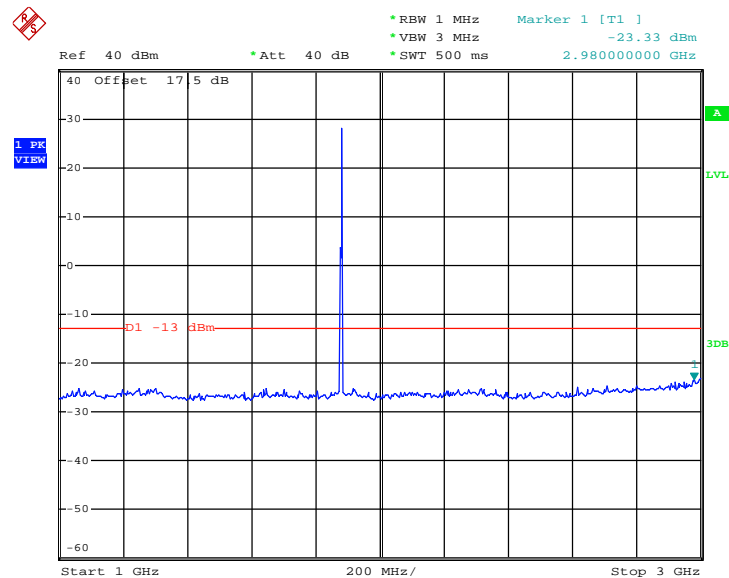
Conducted Spurious Emission Plot between 7GHz ~ 9GHz


Date: 1.JAN.2014 15:24:55

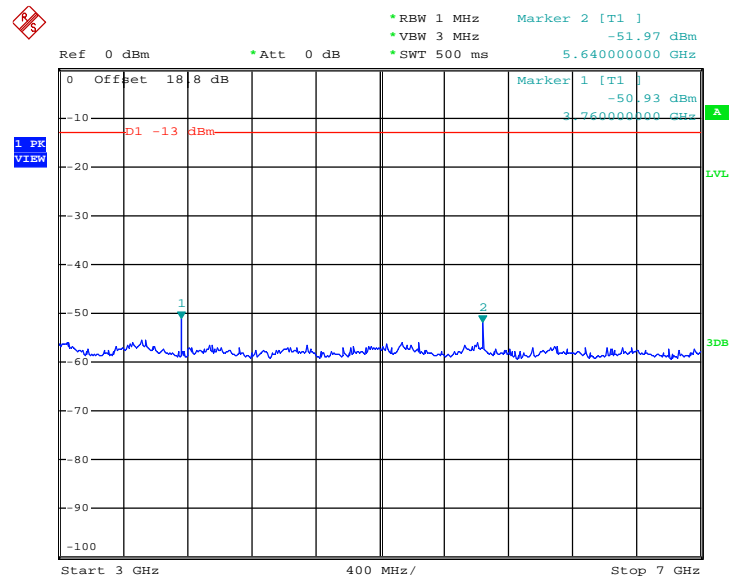
Band :	GSM1900	Channel :	CH661
Test Mode :	GSM Link (GMSK)	Frequency :	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz


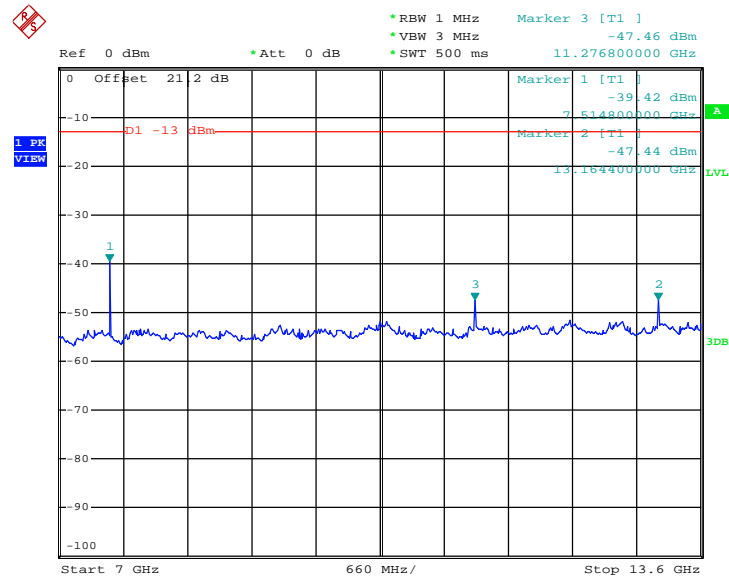
Date: 1.JAN.2014 16:09:17

Conducted Spurious Emission Plot between 1GHz ~ 3GHz


Date: 1.JAN.2014 16:08:40

Conducted Spurious Emission Plot between 3GHz ~ 7GHz


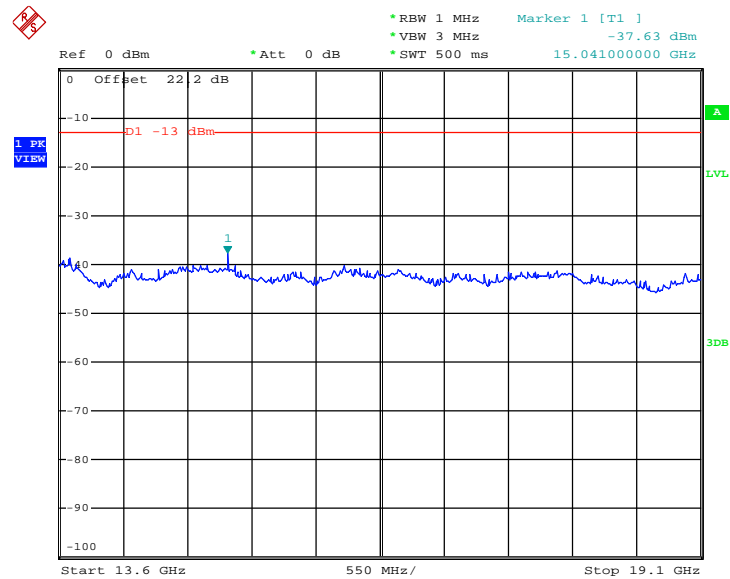
Date: 1.JAN.2014 16:10:51

Conducted Emission Plot between 7GHz ~ 13.6GHz


Date: 1.JAN.2014 16:11:59

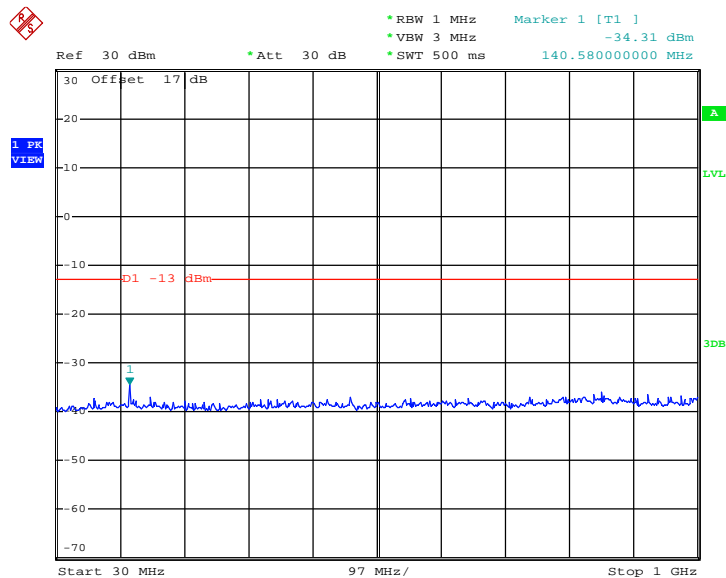


Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

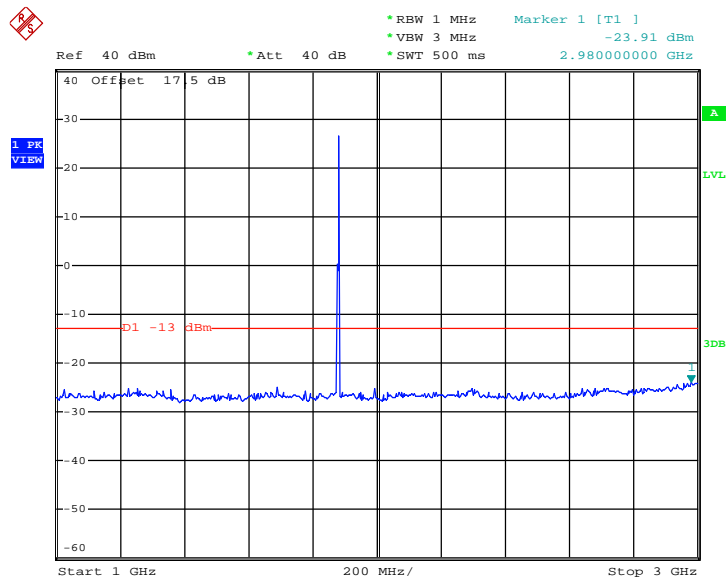


Date: 1.JAN.2014 16:12:46

Band :	GSM1900	Channel :	CH661
Test Mode :	EDGE class 8 Link (8PSK)	Frequency :	1880.0 MHz

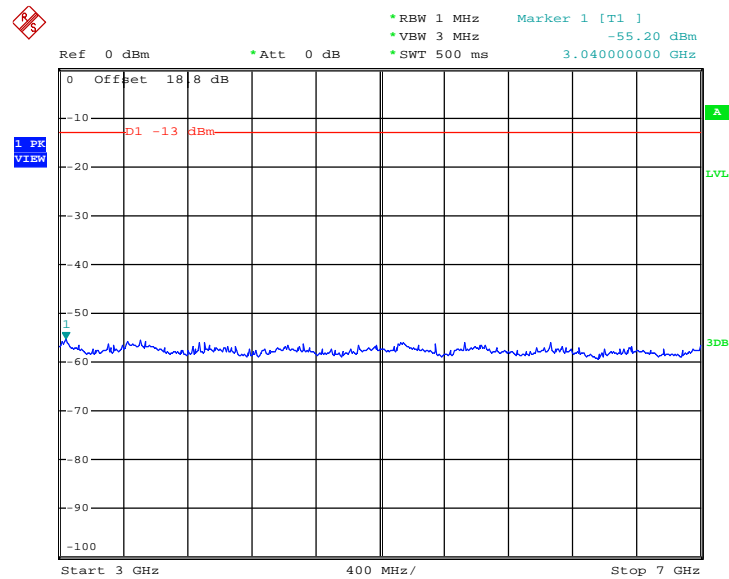
Conducted Spurious Emission Plot between 30MHz ~ 1GHz


Date: 1.JAN.2014 16:17:32

Conducted Spurious Emission Plot between 1GHz ~ 3GHz


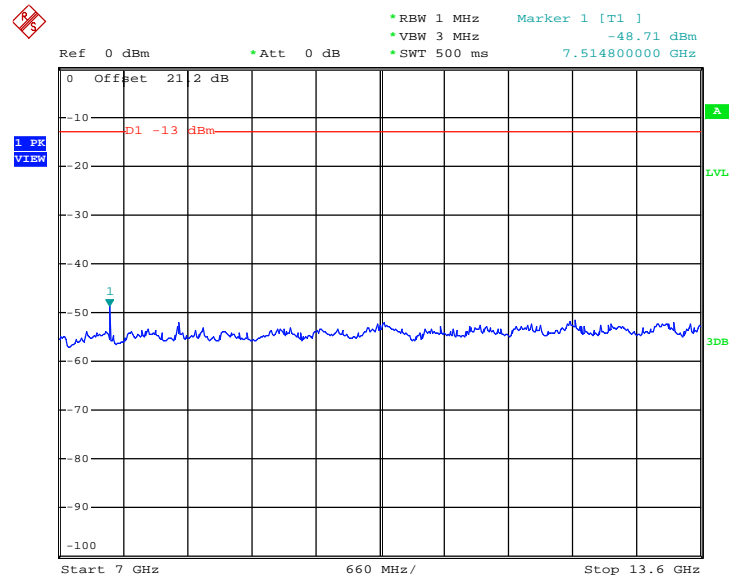
Date: 1.JAN.2014 16:18:23

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



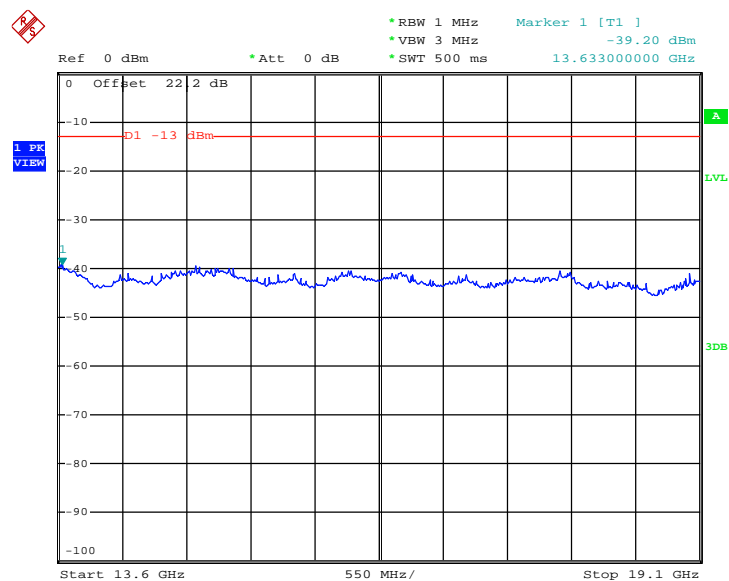
Date: 1.JAN.2014 16:16:34

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 1.JAN.2014 16:15:27

Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

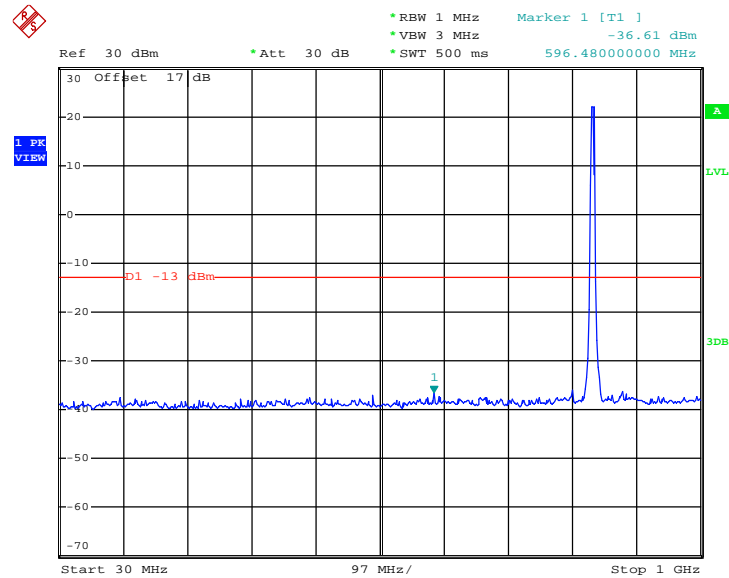


Date: 1.JAN.2014 16:14:45



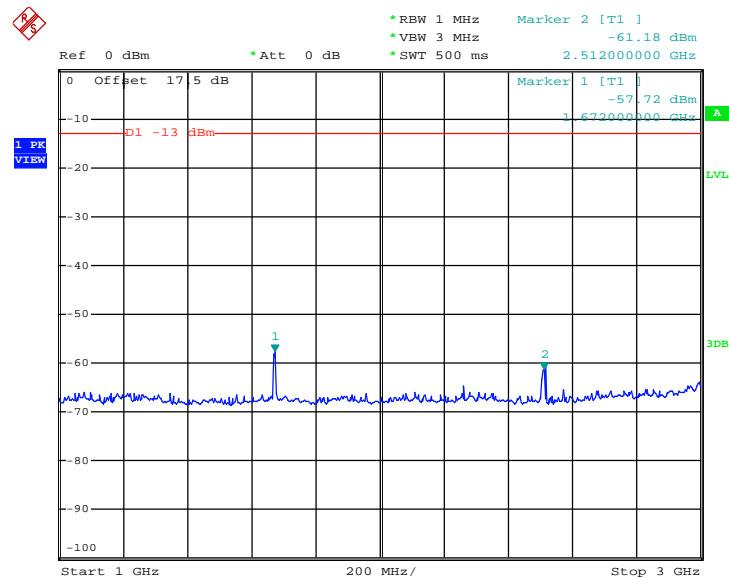
Band :	WCDMA Band V	Channel :	CH4182
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency :	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



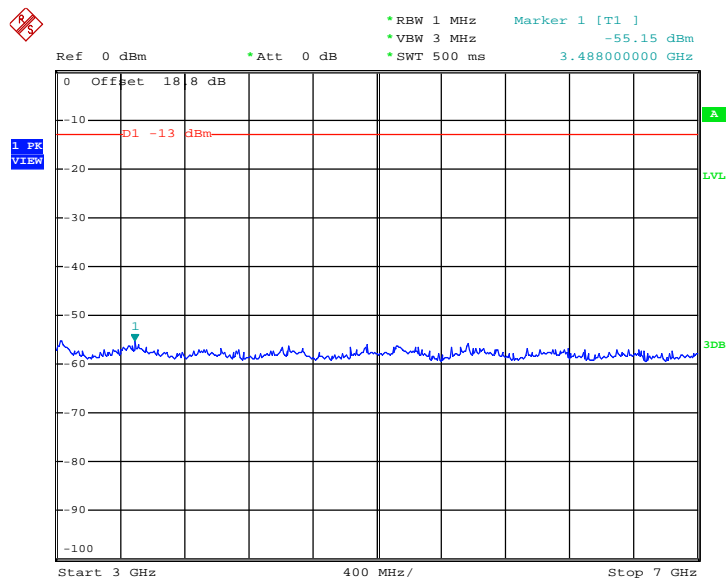
Date: 1.JAN.2014 17:17:14

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



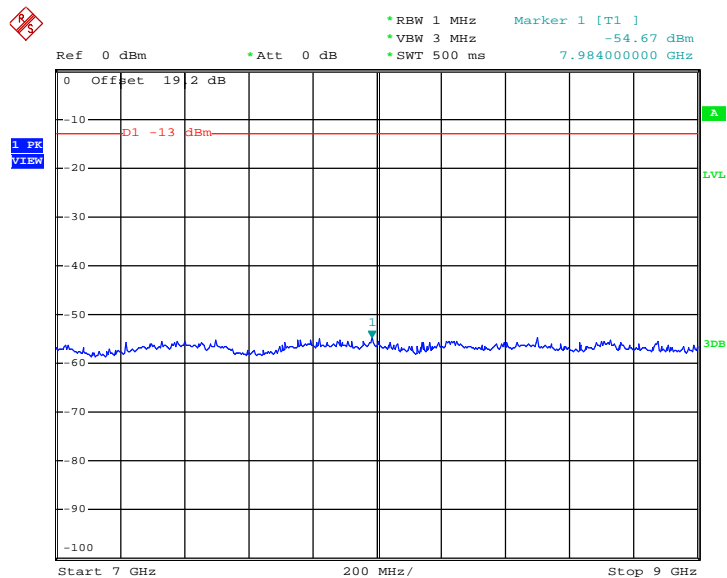
Date: 1.JAN.2014 17:14:21

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



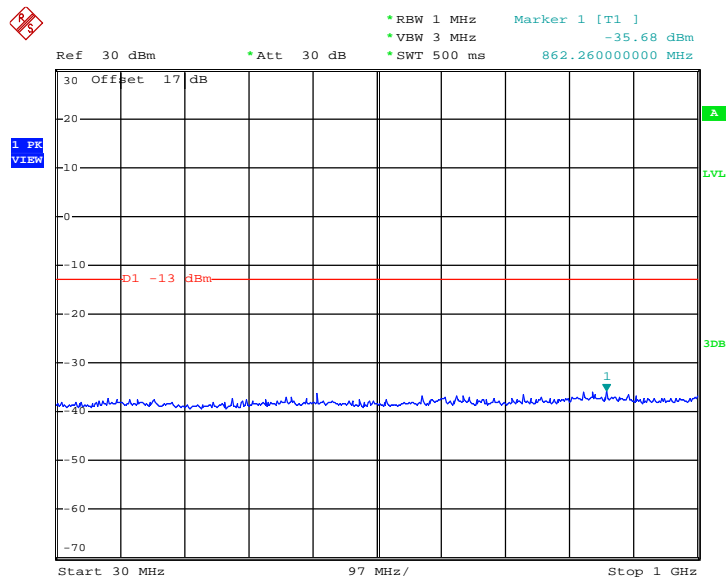
Date: 1.JAN.2014 17:15:13

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

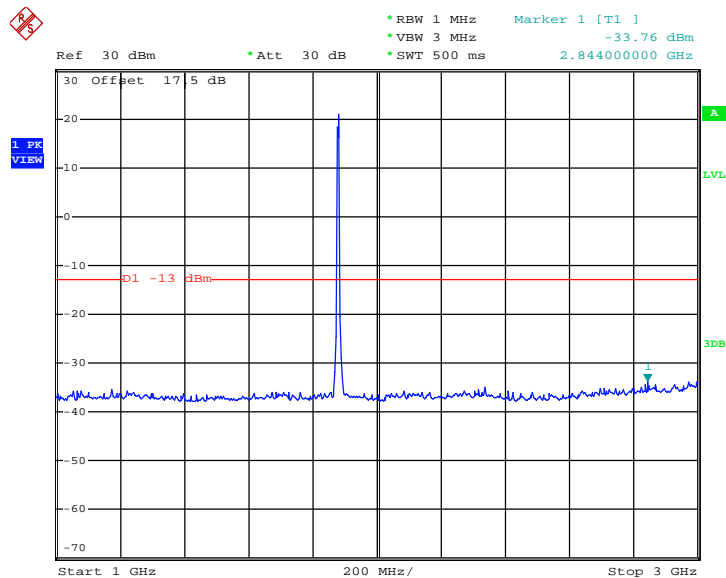


Date: 1.JAN.2014 17:16:10

Band :	WCDMA Band II	Channel :	CH9400
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency :	1880.0 MHz

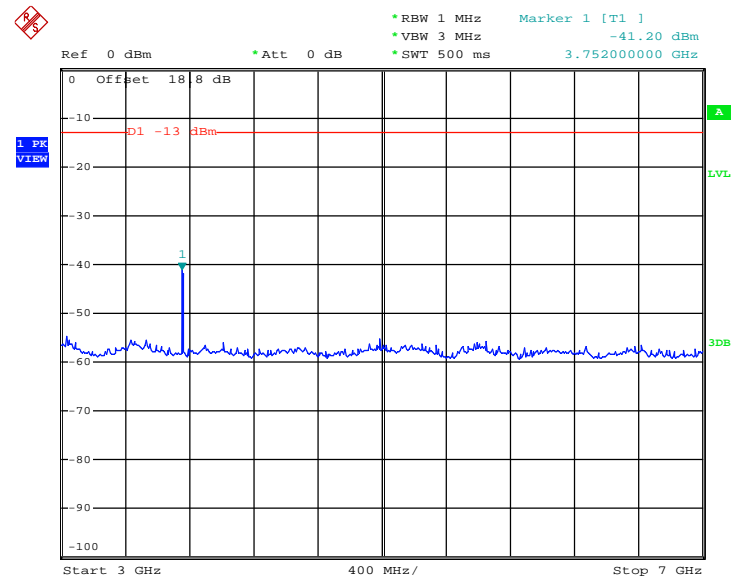
Conducted Spurious Emission Plot between 30MHz ~ 1GHz


Date: 1.JAN.2014 17:08:40

Conducted Spurious Emission Plot between 1GHz ~ 3GHz


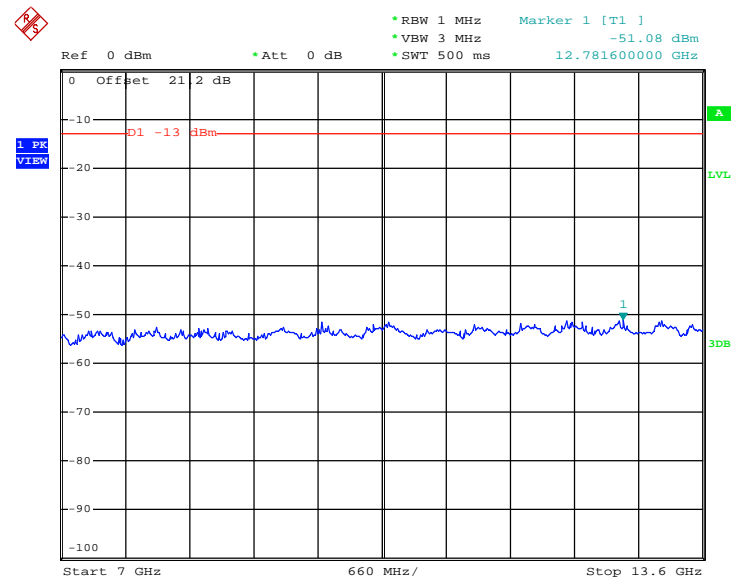
Date: 1.JAN.2014 17:07:45

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



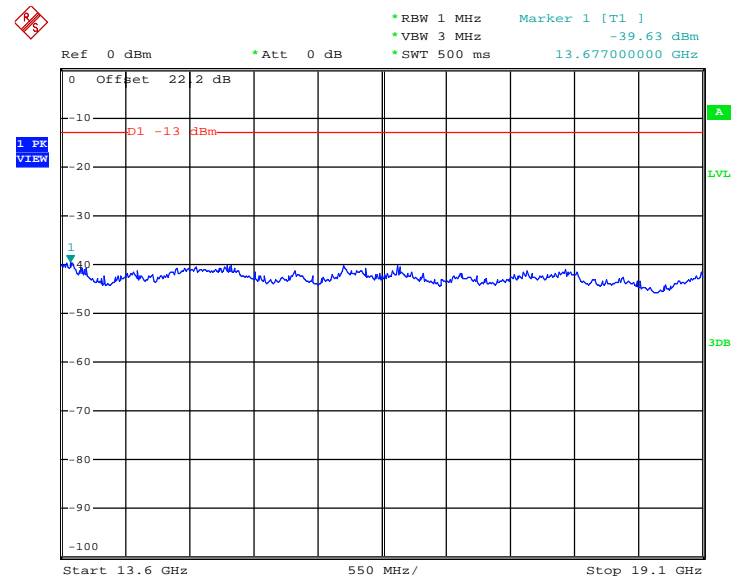
Date: 1.JAN.2014 17:10:15

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 1.JAN.2014 17:12:02

Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 1.JAN.2014 17:12:45

3.7 Field Strength of Spurious Radiation Measurement

3.7.1 Description of Field Strength of Spurious Radiated Measurement

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.

3.7.2 Measuring Instruments

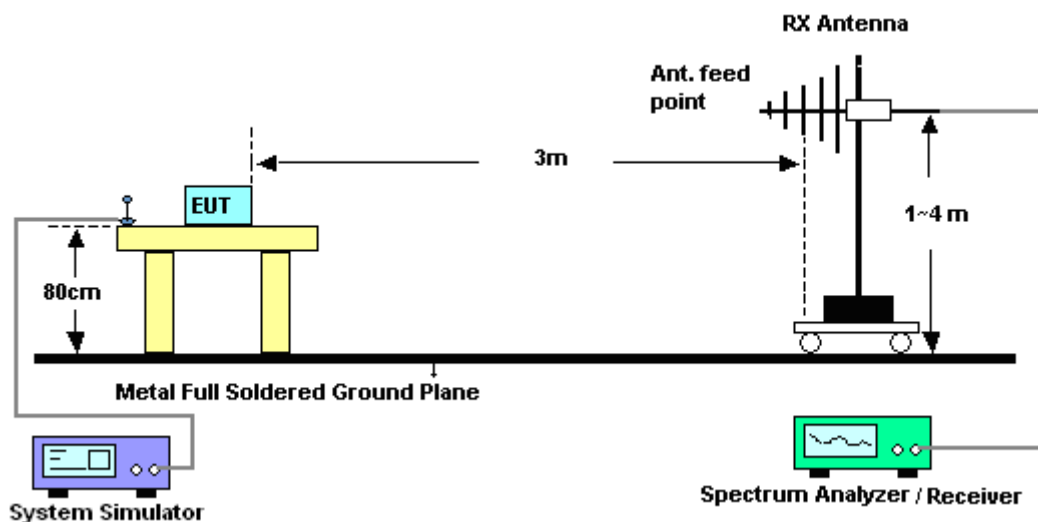
The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Procedures

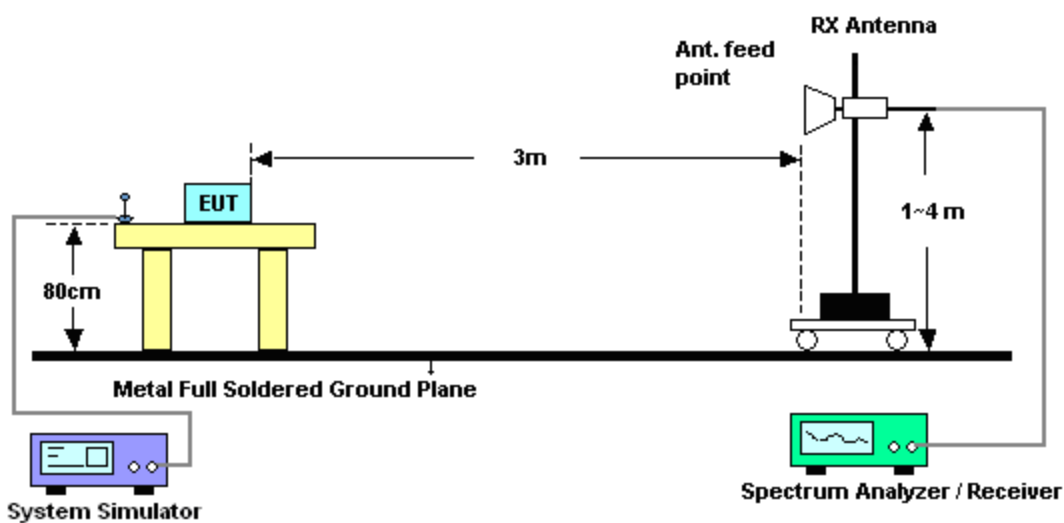
1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving 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, 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. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
11. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$
12. $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
13. $\text{ERP (dBm)} = \text{EIRP} - 2.15$

3.7.4 Test Setup

For radiated emissions from 30MHz to 1GHz

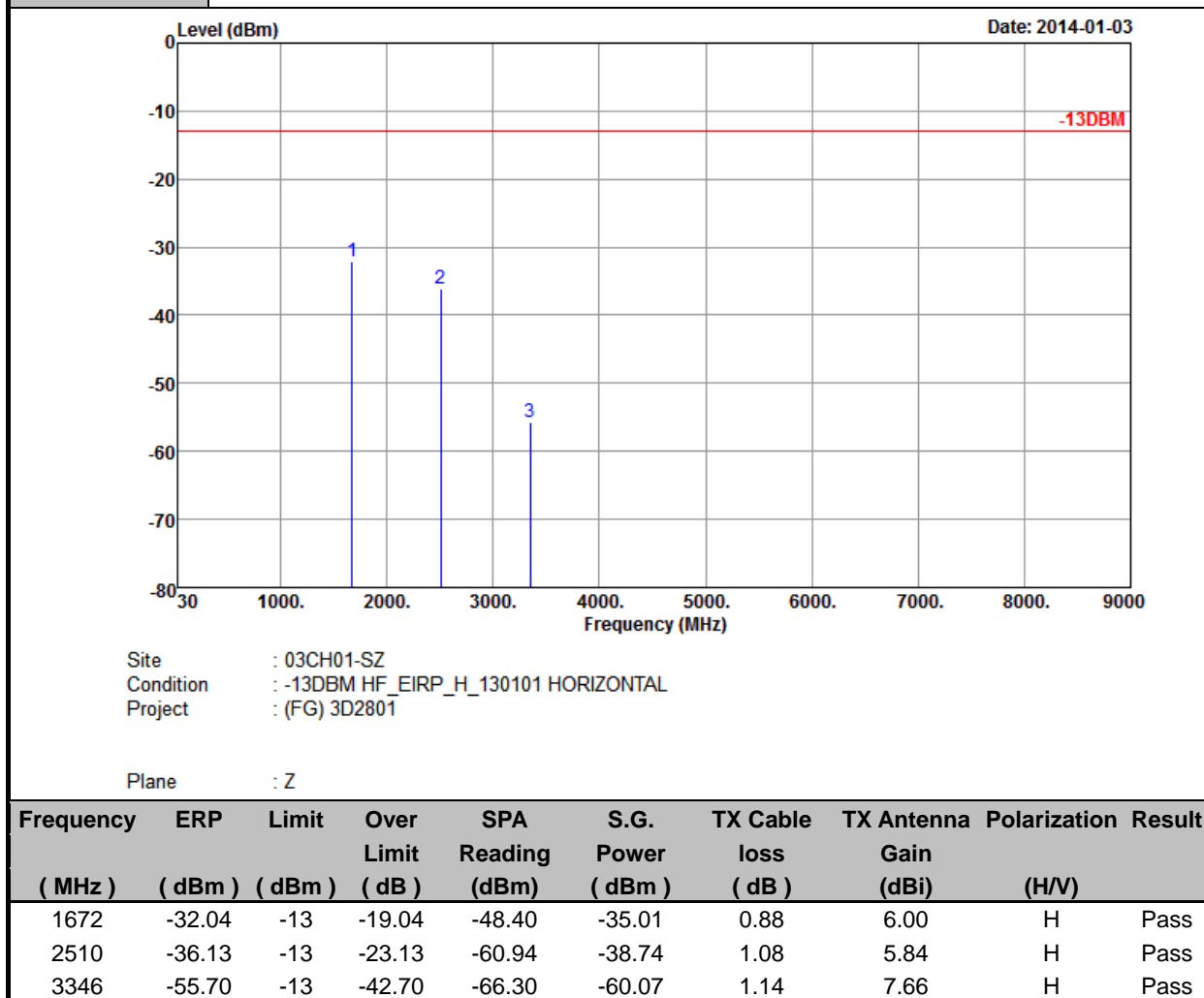


For radiated emissions above 1GHz

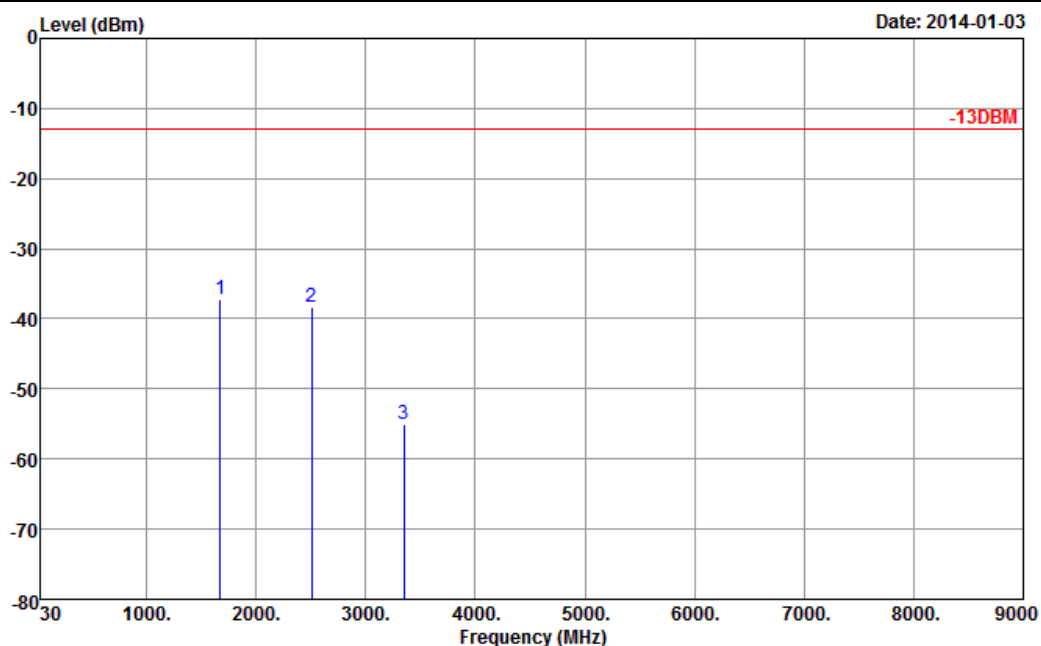


3.7.5 Test Result of Field Strength of Spurious Radiated

Band :	GSM850	Temperature :	24~25°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~49%
Test Engineer :	Robin Luo	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Band :	GSM850	Temperature :	24~25°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~49%
Test Engineer :	Robin Luo	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



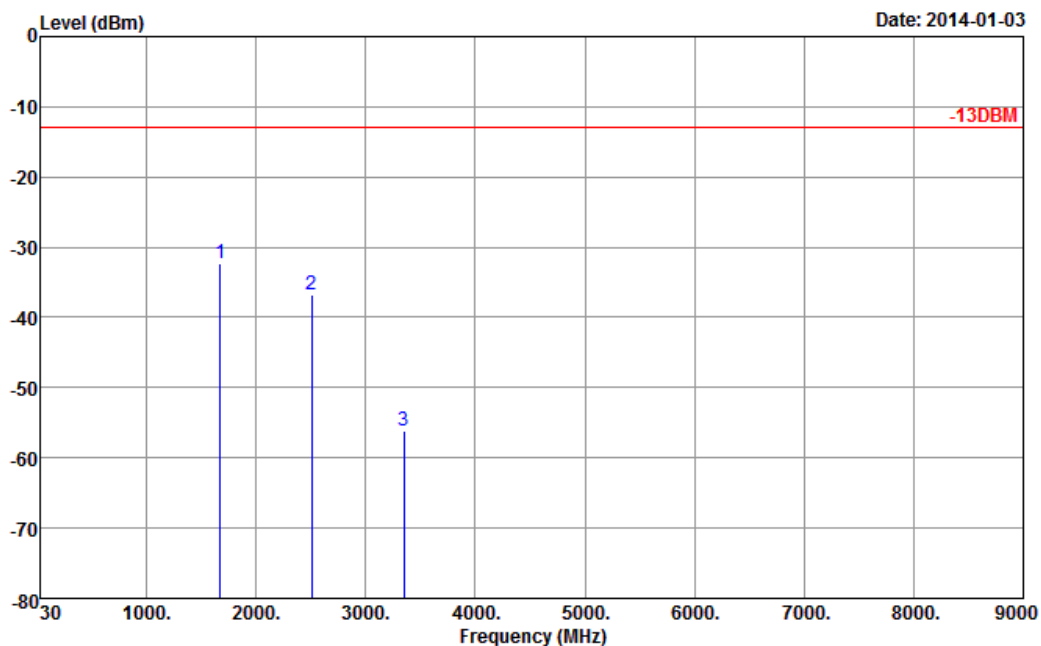
Site : 03CH01-SZ
 Condition : -13DBM HF_EIRP_V_130101 VERTICAL
 Project : (FG) 3D2801

Plane : Z

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	-37.24	-13	-24.24	-51.20	-40.21	0.88	6.00	V	Pass
2510	-38.39	-13	-25.39	-60.83	-41.00	1.08	5.84	V	Pass
3346	-54.98	-13	-41.98	-66.81	-59.35	1.14	7.66	V	Pass



Band :	GSM850	Temperature :	24~25°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~49%
Test Engineer :	Robin Luo	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



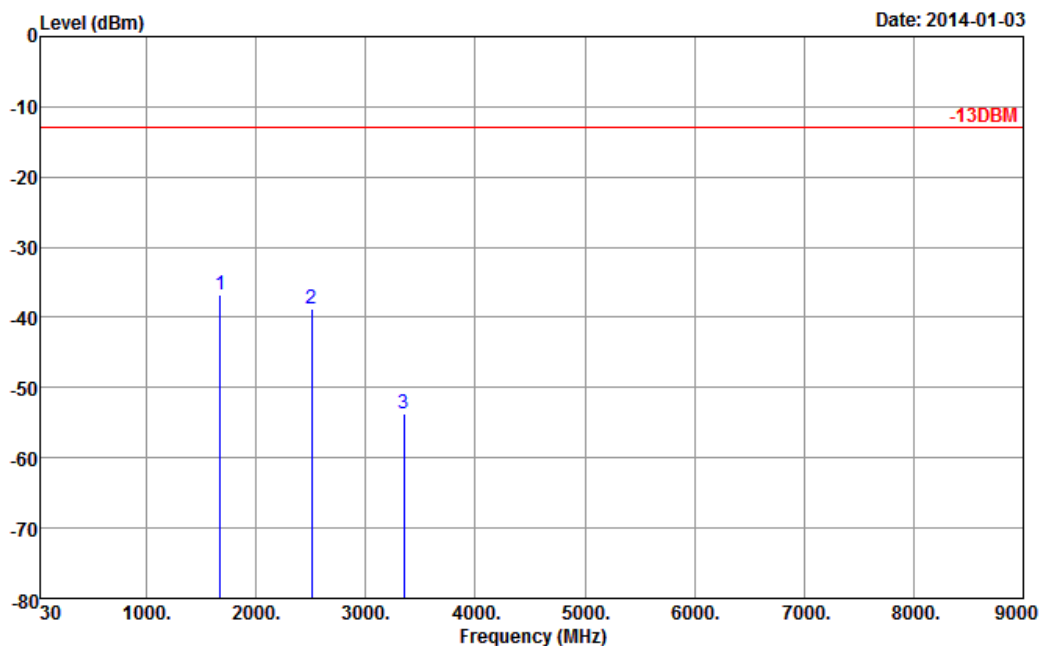
Site : 03CH01-SZ
Condition : -13DBM HF_EIRP_H_130101 HORIZONTAL
Project : (FG) 3D2801

Plane : Z

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	-32.21	-13	-19.21	-48.69	-35.18	0.88	6.00	H	Pass
2510	-36.76	-13	-23.76	-61.53	-39.37	1.08	5.84	H	Pass
3346	-56.08	-13	-43.08	-66.68	-60.45	1.14	7.66	H	Pass



Band :	GSM850	Temperature :	24~25°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~49%
Test Engineer :	Robin Luo	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



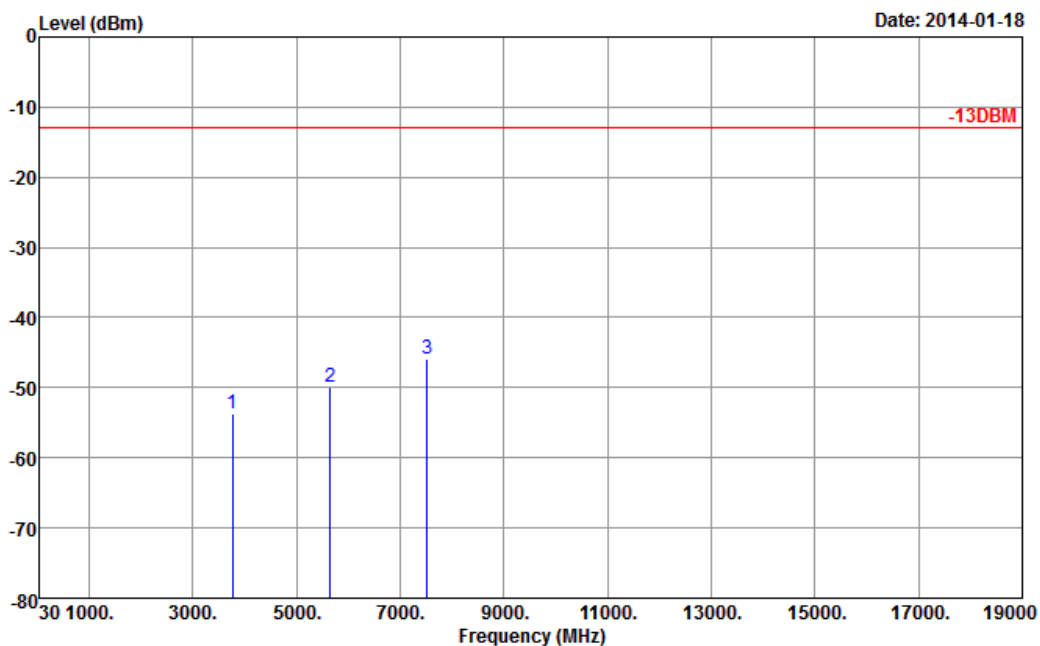
Site : 03CH01-SZ
Condition : -13DBM HF_EIRP_V_130101 VERTICAL
Project : (FG) 3D2801

Plane : Z

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	-36.86	-13	-23.86	-50.85	-39.83	0.88	6.00	V	Pass
2510	-38.74	-13	-25.74	-61.13	-41.35	1.08	5.84	V	Pass
3346	-53.74	-13	-40.74	-65.57	-58.11	1.14	7.66	V	Pass



Band :	GSM1900	Temperature :	24~25°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~49%
Test Engineer :	Robin Luo	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



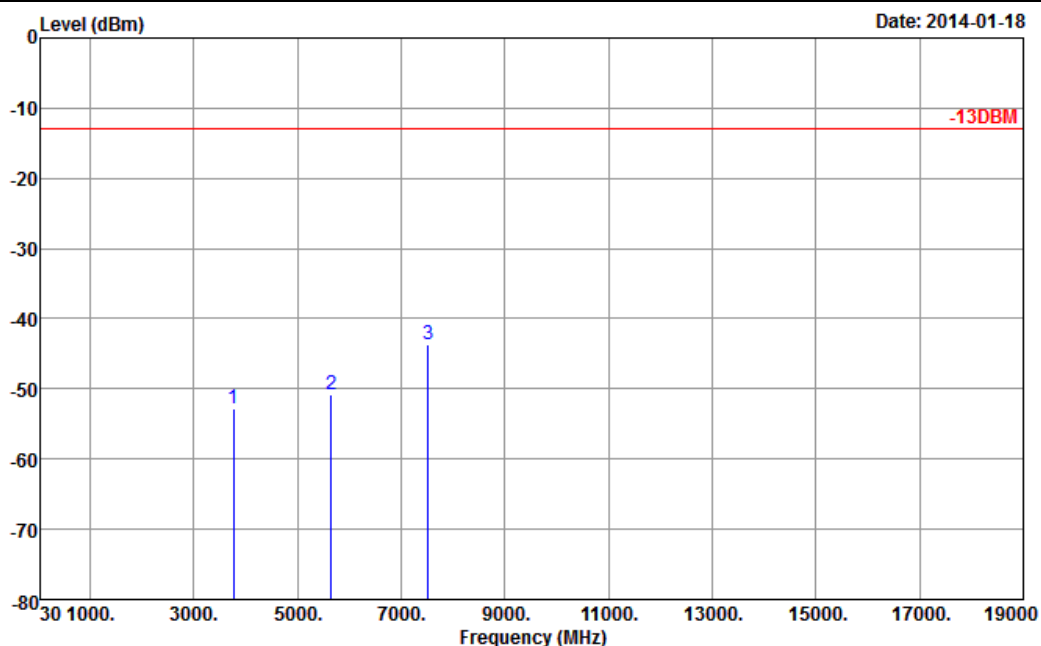
Site : 03CH01-SZ
Condition : -13DBM HF_EIRP_H_130101 HORIZONTAL
Project : (FG) 3D2801

Plane : Z

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	-53.62	-13	-40.62	-65.77	-60.36	1.28	8.02	H	Pass
5640	-49.93	-13	-36.93	-67.92	-58.35	1.58	10.00	H	Pass
7520	-45.85	-13	-32.85	-67.79	-56.17	1.78	12.10	H	Pass



Band :	GSM1900	Temperature :	24~25°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~49%
Test Engineer :	Robin Luo	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



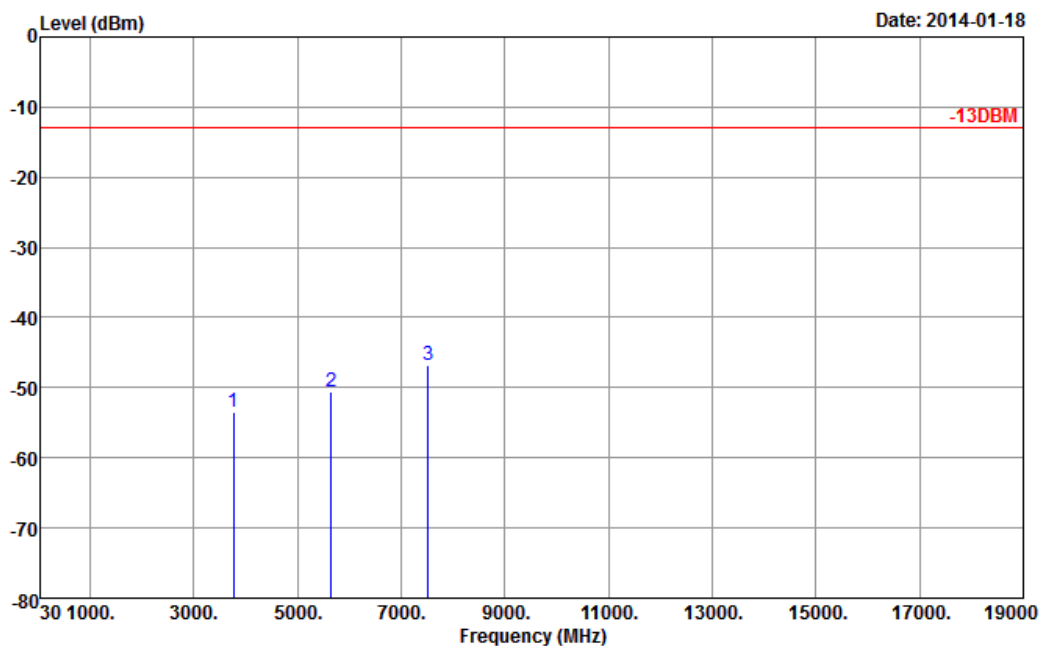
Site : 03CH01-SZ
Condition : -13DBM HF_EIRP_V_130101 VERTICAL
Project : (FG) 3D2801

Plane : Z

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	-52.78	-13	-39.78	-67.81	-59.52	1.28	8.02	V	Pass
5640	-50.91	-13	-37.91	-67.99	-59.33	1.58	10	V	Pass
7520	-43.68	-13	-30.68	-65.93	-54.00	1.78	12.1	V	Pass



Band :	GSM1900	Temperature :	24~25°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~49%
Test Engineer :	Robin Luo	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



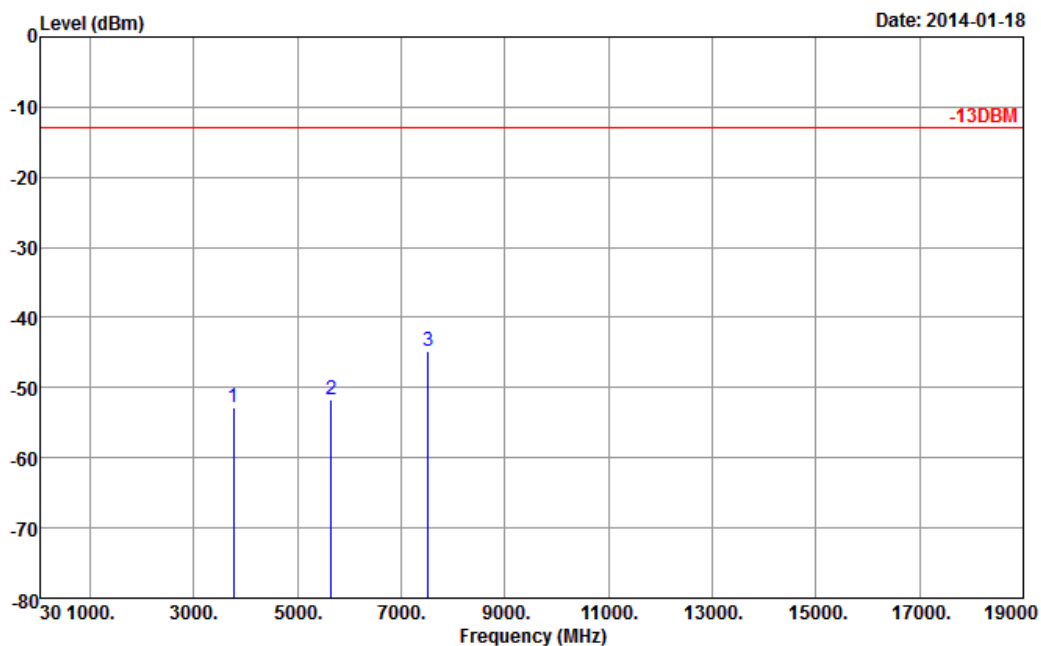
Site : 03CH01-SZ
Condition : -13DBM HF_EIRP_H_130101 HORIZONTAL
Project : (FG) 3D2801

Plane : Z

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	-53.59	-13	-40.59	-65.74	-60.33	1.28	8.02	H	Pass
5640	-50.64	-13	-37.64	-68.63	-59.06	1.58	10.00	H	Pass
7520	-46.85	-13	-33.85	-68.79	-57.17	1.78	12.10	H	Pass



Band :	GSM1900	Temperature :	24~25°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~49%
Test Engineer :	Robin Luo	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



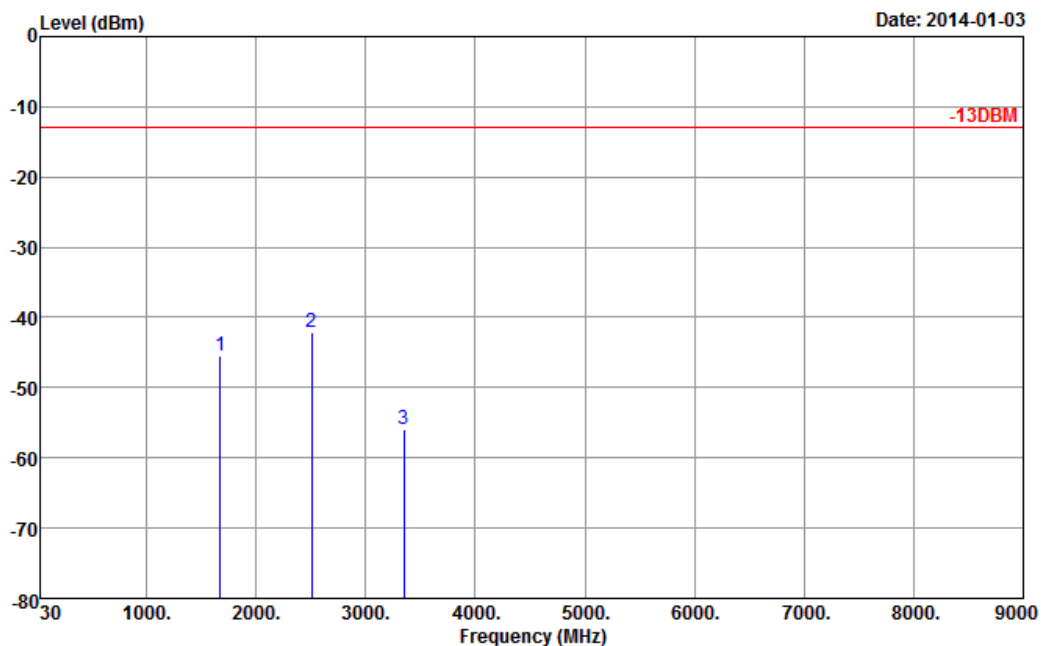
Site : 03CH01-SZ
Condition : -13DBM HF_EIRP_V_130101 VERTICAL
Project : (FG) 3D2801

Plane : Z

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	-52.82	-13	-39.82	-67.85	-59.56	1.28	8.02	V	Pass
5640	-51.60	-13	-38.60	-68.68	-60.02	1.58	10	V	Pass
7520	-44.68	-13	-31.68	-66.93	-55.00	1.78	12.1	V	Pass



Band :	WCDMA Band V	Temperature :	24~25°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~49%
Test Engineer :	Robin Luo	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



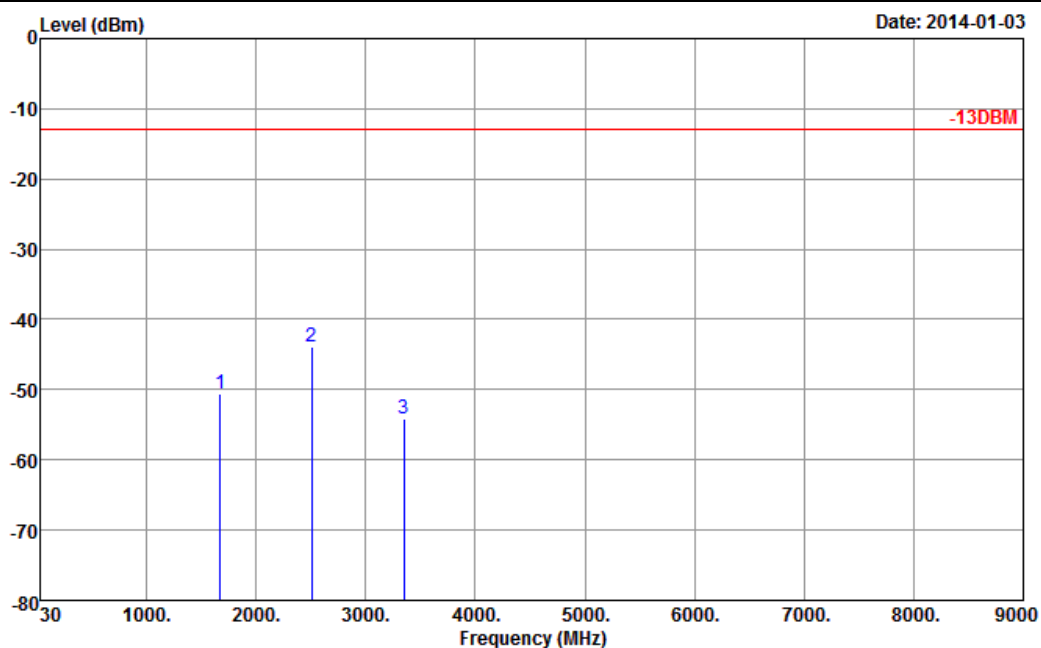
Site : 03CH01-SZ
Condition : -13DBM HF_EIRP_H_130101 HORIZONTAL
Project : (FG) 3D2801

Plane : Z

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	-45.54	-13	-32.54	-61.35	-48.51	0.88	6.00	H	Pass
2510	-42.09	-13	-29.09	-65.96	-44.70	1.08	5.84	H	Pass
3346	-55.88	-13	-42.88	-66.48	-60.25	1.14	7.66	H	Pass



Band :	WCDMA Band V	Temperature :	24~25°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~49%
Test Engineer :	Robin Luo	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



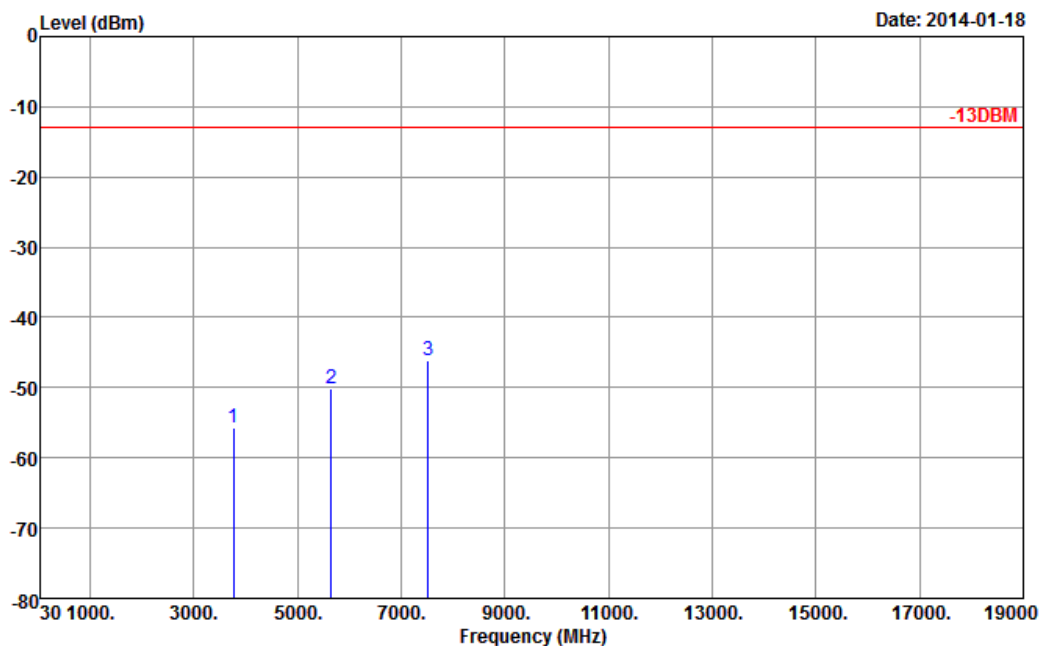
Site : 03CH01-SZ
Condition : -13DBM HF_EIRP_V_130101 VERTICAL
Project : (FG) 3D2801

Plane : Z

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	-50.69	-13	-37.69	-63.00	-53.66	0.88	6.00	V	Pass
2510	-43.92	-13	-30.92	-65.33	-46.53	1.08	5.84	V	Pass
3346	-54.08	-13	-41.08	-65.91	-58.45	1.14	7.66	V	Pass



Band :	WCDMA Band II	Temperature :	24~25°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~49%
Test Engineer :	Robin Luo	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



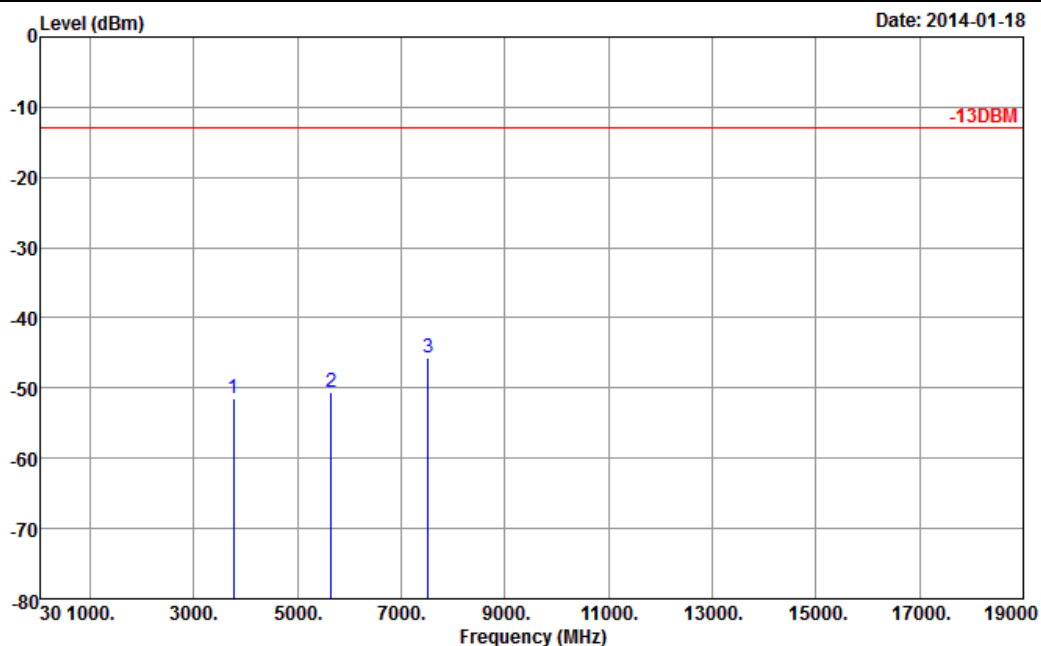
Site : 03CH01-SZ
Condition : -13DBM HF_EIRP_H_130101 HORIZONTAL
Project : (FG) 3D2801

Plane : Z

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	-55.61	-13	-42.61	-67.76	-62.35	1.28	8.02	H	Pass
5640	-50.23	-13	-37.23	-68.22	-58.65	1.58	10.00	H	Pass
7520	-46.18	-13	-33.18	-68.12	-56.50	1.78	12.10	H	Pass



Band :	WCDMA Band II	Temperature :	24~25°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~49%
Test Engineer :	Robin Luo	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Site : 03CH01-SZ
Condition : -13DBM HF_EIRP_V_130101 VERTICAL
Project : (FG) 3D2801

Plane : Z

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	-51.41	-13	-38.41	-66.44	-58.15	1.28	8.02	V	Pass
5640	-50.50	-13	-37.50	-67.58	-58.92	1.58	10	V	Pass
7520	-45.76	-13	-32.76	-68.01	-56.08	1.78	12.1	V	Pass

3.8 Frequency Stability Measurement

3.8.1 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.

3.8.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

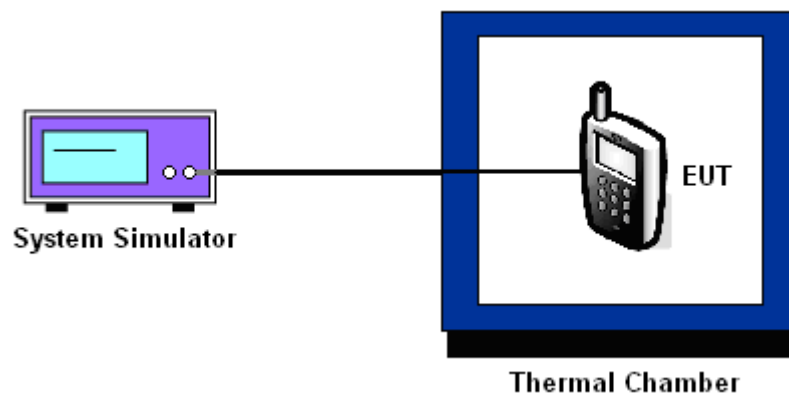
3.8.3 Test Procedures for Temperature Variation

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 before testing. 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.

3.8.4 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.

3.8.5 Test Setup



3.8.6 Test Result of Temperature Variation

Band :	GSM 850	Channel :	189
Limit (ppm) :	2.5	Frequency :	836.4 MHz

Temperature (°C)	GSM		EDGE class 8		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	18	+0.02	13	+0.02	PASS
-20	15	+0.02	11	+0.01	
-10	17	+0.02	12	+0.01	
0	16	+0.02	14	+0.02	
10	15	+0.02	15	+0.02	
20	17	+0.02	14	+0.02	
30	13	+0.02	12	+0.01	
40	14	+0.02	10	+0.01	
50	16	+0.02	15	+0.02	

Band :	GSM 1900	Channel :	661
Limit (ppm) :	2.5	Frequency :	1880.0 MHz

Temperature (°C)	GSM		EDGE class 8		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-34	-0.02	-27	-0.01	PASS
-20	-29	-0.02	-24	-0.01	
-10	-33	-0.02	-26	-0.01	
0	-31	-0.02	-23	-0.01	
10	-30	-0.02	-24	-0.01	
20	-32	-0.02	-25	-0.01	
30	-31	-0.02	-23	-0.01	
40	-33	-0.02	-25	-0.01	
50	-32	-0.02	-26	-0.01	

Band :	WCDMA Band V	Channel :	4182
Limit (ppm) :	2.5	Frequency :	836.4 MHz

Temperature (°C)	RMC 12.2Kbps		Result
	Freq. Dev. (Hz)	Deviation (ppm)	
-30	8	+0.01	PASS
-20	9	+0.01	
-10	7	+0.01	
0	8	+0.01	
10	8	+0.01	
20	9	+0.01	
30	8	+0.01	
40	7	+0.01	
50	9	+0.01	

Band :	WCDMA Band II	Channel :	9400
Limit (ppm) :	2.5	Frequency :	1880.0 MHz

Temperature (°C)	RMC 12.2Kbps		Result
	Freq. Dev. (Hz)	Deviation (ppm)	
-30	17	+0.01	PASS
-20	15	+0.01	
-10	13	+0.01	
0	15	+0.01	
10	14	+0.01	
20	16	+0.01	
30	15	+0.01	
40	14	+0.01	
50	18	+0.01	

3.8.7 Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
GSM 850 CH189	GSM	3.7	14	+0.02	2.5	PASS
		BEP	16	+0.02		
		4.2	15	+0.02		
	EDGE class 8	3.7	15	+0.02		
		BEP	15	+0.02		
		4.2	13	+0.02		
GSM 1900 CH661	GSM	3.7	-22	-0.01		
		BEP	-23	-0.01		
		4.2	-28	-0.01		
	EDGE class 8	3.7	-21	-0.01		
		BEP	-22	-0.01		
		4.2	-24	-0.01		
WCDMA Band V CH4182	RMC 12.2Kbps	3.7	10	+0.01		
		BEP	11	+0.01		
		4.2	9	+0.01		
WCDMA Band II CH9400	RMC 12.2Kbps	3.7	18	+0.01		
		BEP	19	+0.01		
		4.2	19	+0.01		

Note:

1. Normal Voltage = 3.7V.
2. Battery End Point (BEP) = 3.55 V.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP30	101400	9kHz~30GHz	Mar. 28, 2013	Jan. 01, 2014~ Jan. 17, 2014	Mar. 27, 2014	Conducted (TH01-SZ)
Spectrum Analyzer	R&S	FSV30	100845	9kHz~30GHz; Max input Power 30dBm	Dec. 04, 2013	Jan. 01, 2014~ Jan. 17, 2014	Dec. 03, 2014	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	13dBm~-20dBm	Mar. 28, 2013	Jan. 01, 2014~ Jan. 17, 2014	Mar. 27, 2014	Conducted (TH01-SZ)
Power Sensor	Anritsu	MA2411B	1207253	0.3GHz~40GHz	Mar. 28, 2013	Jan. 01, 2014~ Jan. 17, 2014	Mar. 27, 2014	Conducted (TH01-SZ)
Thermal Chamber	Hongzhan	LP-150U	HD20120425	-40℃~150℃	Mar. 28, 2013	Jan. 01, 2014~ Jan. 17, 2014	Mar. 27, 2014	Conducted (TH01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	Apr. 04, 2013	Jan. 03, 2014~ Jan. 18, 2014	Apr. 03, 2014	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 26, 2013	Jan. 03, 2014~ Jan. 18, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Bilog Antenna	SCHAFFNER	CBL6112B	2614	30MHz~2GHz	Dec. 25, 2013	Jan. 03, 2014~ Jan. 18, 2014	Dec. 24, 2014	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz Gain 30db	Mar. 29, 2013	Jan. 03, 2014~ Jan. 18, 2014	Mar. 28, 2014	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	Mar. 29, 2013	Jan. 03, 2014~ Jan. 18, 2014	Mar. 28, 2014	Radiation (03CH01-SZ)
SHF-EHF-Horn	Schwarzbeck	BBHA9170	BBHA91702 49	14GHz~40GHz	Nov. 22, 2013	Jan. 03, 2014~ Jan. 18, 2014	Nov. 21, 2014	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0~360 degree	NCR	Jan. 03, 2014~ Jan. 18, 2014	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m~4 m	NCR	Jan. 03, 2014~ Jan. 18, 2014	NCR	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSP 7	100818	9kHz~7GHz	Sep. 03, 2013	Jan. 02, 2014~ Jan. 08, 2014	Sep. 02, 2014	ERP/EIRP (OTA01-SZ)
Quad-Ridged Horn	ETS-Lindgren	3164-08	00102954	700MHz~10000 MHz	N/A	Jan. 02, 2014~ Jan. 08, 2014	N/A	ERP/EIRP (OTA01-SZ)
Multi-Devices Controller	ETS-Lindgren	2090-OPT1	00108147	N/A	N/A	Jan. 02, 2014~ Jan. 08, 2014	N/A	ERP/EIRP (OTA01-SZ)
Switch Control Mainframe	Agilent	3499A	MY42005451	N/A	N/A	Jan. 02, 2014~ Jan. 08, 2014	N/A	ERP/EIRP (OTA01-SZ)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.90
---	------