



TEST REPORT

No. 2010TAR464

for

ZTE CORPORATION

Wireless Modem and Router

Model Name: MF60

FCC ID: Q78-ZTEMF60

With

Hardware Version: di3C

Software Version: BD_MF60V1.0.0B09

Issued Date: Dec 9, 2010

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of TMC Beijing.

Test Laboratory:

DAR accreditation (DIN EN ISO/IEC 17025): No. DGA-PL-114/01-02

FCC 2.948 Listed: No.733176

IC O.A.T.S listed: No.6629A-1

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1. Test Laboratory

1.1. Testing Location

Company Name: TMC Beijing, Telecommunication Metrology Center of MIIT
Address: 3/F Shou Xiang Technology Building, No.51 Xueyuan Road, Hai
Dian District, Beijing, P. R. China
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Telephone: 00861062304633
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1.2. Testing Environment

Normal Temperature: 15-35°C
Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: Nov 19, 2010
Testing End Date: Dec 9, 2010

1.4. Signature



Zi Xiaogang
(Prepared this test report)



Sun Xiangqian
(Reviewed this test report)



Lu Bingsong
Deputy Director of the laboratory
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: ZTE CORPORATION
Address /Post: ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan
District, Shenzhen, Guangdong, 518057, P.R.China
City: Shenzhen
Postal Code: 518057
Country: China
Telephone: 0086 21 68895196
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2.2. Manufacturer Information

Company Name: ZTE CORPORATION
Address /Post: ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan
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City: Shenzhen
Postal Code: 518057
Country: China
Telephone: 0086 21 68895196
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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Wireless Modem and Router
Model Name	MF60
FCC ID	Q78-ZTEMF60
Frequency	GSM 850MHz; GSM 900MHz; DCS1800MHz; PCS1900MHz; WCDMA BAND I; WCDMA BAND II; WCDMA BAND V
Antenna	Internal
Power supply	Battery or Charger (AC Adaptor)
Output power	28.64 dBm maximum ERP measured for GSM850
Extreme vol. Limits	3.5VDC to 4.2VDC (nominal: 3.7VDC)

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Telecommunication Metrology Center of MIIT of People's Republic of China.

3.2. Internal Identification of EUT used during the test

EUT ID*	HW Version	SW Version
N04	di3C	BD_MF60V1.0.0B09
N06	di3C	BD_MF60V1.0.0B09

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

AE ID*	Description
AE1	Battery
AE2	Travel Adapter

AE1

Model	Li3715T42P3h654251
Manufacturer	ZTE
Capacitance	1500mAh
Nominal Voltage	3.7V

AE2

Model	STC-A22O50I700USBA-Z
Manufacturer	RUIDE
Length of DC line	180cm

*AE ID: is used to identify the test sample in the lab internally.

3.4. General Description

The Equipment Under Test (EUT) is a model of Wireless Modem and Router with integrated antenna. It consists of normal options: lithium battery, charger Manual and specifications of the

EUT were provided to fulfil the test. Samples undergoing test were selected by the Client.

4. Reference Documents

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	V 10.1.09
FCC Part 22	PUBLIC MOBILE SERVICES	V 10.1.09
ANSI/TIA-603-C	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2004
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2003

5. LABORATORY ENVIRONMENT

Semi-anechoic chamber (23 meters×17meters×10meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	< ±3.2 dB, 10 m distance, from 30 to 1000 MHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 2000 MHz

Control room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. =30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Conducted chamber did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber (6.8 meters×3.08 meters×3.53 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80 to 2000 MHz

6. SUMMARY OF TEST RESULTS

Items	List	Clause in FCC rules	Verdict
1	Output Power	22.913(a)/24.232(b)	P
2	Emission Limit	2.1051/22.917/24.238	P
3	Frequency Stability	2.1055/24.235	P
4	Occupied Bandwidth	2.1049(h)(i)	P
5	Emission Bandwidth	22.917(b)/24.238(b)	P
6	Band Edge Compliance	22.917(b)/24.238(b)	P
7	Conducted Spurious Emission	2.1057/22.917/24.238	P

7. Test Equipments Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CAL DUE DATE
1	Test Receiver	ESS	847151/015	R&S	2011-12-2
2	Test Receiver	ESI40	831564/002	R&S	2011-12-2
3	BiLog Antenna	3142B	9908-1403	EMCO	2011-12-2
4	BiLog Antenna	3142B	9908-1405	EMCO	2011-12-2
5	Signal Generator	SMT06	831285/005	R&S	2011-12-2
6	Signal Generator	SMP04	100070	R&S	2011-12-2
7	LISN	ESH2-Z5	829991/012	R&S	2011-12-2
8	Spectrum Analyzer	FSU26	200030	R&S	2011-12-2
9	Universal Radio Communication Tester	CMU200	100680	R&S	2011-12-2
10	Dual-Ridge Waveguide Horn Antenna	3115	9906-5827	EMCO	2011-12-2
11	Dual-Ridge Waveguide Horn Antenna	3115	9906-5831	EMCO	2011-12-2
12	Dual-Ridge Waveguide Horn Antenna	3116	2663	EMCO	2011-12-2
13	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2011-12-2
14	Climatic chamber	PL-2G	343074	ESPEC	2011-12-2

ANNEX A: MEASUREMENT RESULTS

A.1 OUTPUT POWER (§22.913(a)/§24.232(b))

A.1.1 Summary

During the process of testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication tester (CMU-200) to ensure max power transmission and proper modulation.

This result contains peak output power and EIRP measurements for the EUT.

In all cases, output power is within the specified limits.

A.1.2 Conducted

A.1.2.1 Method of Measurements

The EUT was set up for the max output power with pseudo random data modulation.

The power was measured with Rhode & Schwarz Spectrum Analyzer FSU (peak)

These measurements were done at 3 frequencies, 1850.2 MHz, 1880.0MHz and 1909.8MHz for PCS1900 band;824.4MHz, 836.6MHz and 848.8MHz for GSM850 band. (bottom, middle and top of operational frequency range).

A.1.3 Test Condition

RBW	VBW	Sweep Time	Span
1MHz	1MHz	300ms	10MHz

GSM850

Limit

	Power step	Nominal Peak output power (dBm)	Target (dB)
GSM	5	33dBm(2W)	32±1
GPRS	3	33dBm(2W)	32±1
EGPRS	6	27dBm(0.5W)	27±1

Measurement result

GSM

Frequency(MHz)	Power Step	Peak output power(dBm)
824.2	5	31.32
836.6	5	31.42
848.8	5	31.53

GPRS

Frequency(MHz)	Power Step	Peak output power(dBm)
824.2	3	31.25
836.6	3	31.37
848.8	3	31.47

EGPRS

Frequency(MHz)	Power Step	Peak output power(dBm)
824.2	6	26.19
836.6	6	26.33

848.8	6	26.44
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PCS1900

Limit

	Power step	Nominal Peak output power (dBm)	Target (dB)
GSM	0	30dBm(1W)	29±1
GPRS	3	30dBm(1W)	29±1
EGPRS	5	26 dBm(0.4W)	26±1

Measurement result

GSM

Frequency(MHz)	Power Step	Peak output power(dBm)
1850.2	0	28.84
1880.0	0	28.71
1909.8	0	28.32

GPRS

Frequency(MHz)	Power Step	Peak output power(dBm)
1850.2	3	28.80
1880.0	3	28.67
1909.8	3	28.28

EGPRS

Frequency(MHz)	Power Step	Peak output power(dBm)
1850.2	5	25.79
1880.0	5	25.50
1909.8	5	25.38

A.1.3 Radiated

A.1.3.1 Description

This is the test for the maximum radiated power from the EUT.

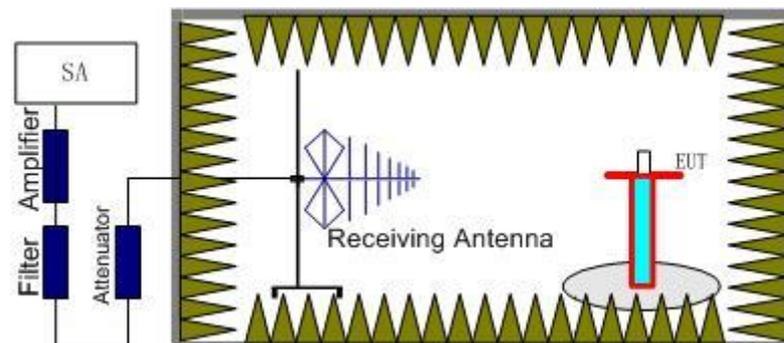
Rule Part 24.232(b) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power" and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage."

Rule Part 22.913(a) specifies "Maximum ERP. The effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 500 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts."

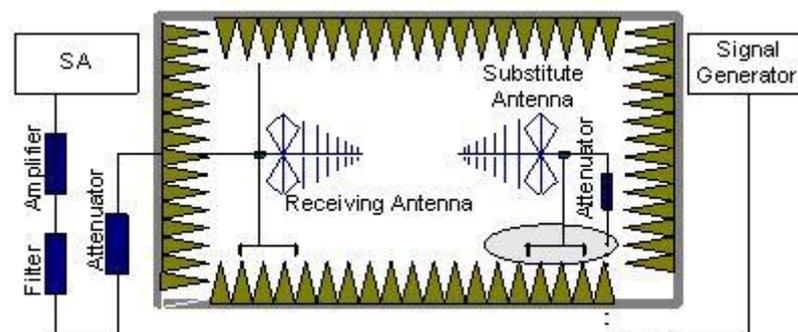
A.1.3.2 Method of Measurement

The measurements procedures in TIA-603C-2004 are used.

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere

with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. The Path loss (P_{pl}) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain (G_a) should be recorded after test.

A amplifier should be connected in for the test.

The Path loss (P_{pl}) is the summation of the cable loss and the gain of the amplifier.

The measurement results are obtained as described below:

$$\text{Power(EIRP)} = P_{Mea} + P_{pl} + G_a$$

4. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
5. ERP can be calculated from EIRP by subtracting the gain of the dipole, $ERP = EIRP - 2.15\text{dBi}$.

GSM 850-ERP 22.913(a)

Limits

	Power Step	Burst Peak ERP (dBm)
GSM	5	≤38.45dBm (7W)
GPRS	3	≤38.45dBm (7W)
EGPRS	6	≤38.45dBm (7W)

Measurement result

GSM

Frequency(MHz)	Peak ERP(dBm)	P _{cl} Path Loss(dB)	G _a Antenna Gain(dB)	Correction	P _{Mea} (dBm)	Polarization
				(dBm)		
824.2	26.64	20.5	5.3	2.15	2.99	Horizontal
836.6	28.33	20.5	5.3	2.15	4.68	Horizontal
848.8	28.64	20.5	5.3	2.15	4.99	Horizontal

GPRS

Frequency(MHz)	Peak ERP(dBm)	P _{cl} Path Loss(dB)	G _a Antenna Gain(dB)	Correction	P _{Mea} (dBm)	Polarization
				(dBm)		
824.2	26.17	20.5	5.3	2.15	2.52	Horizontal
836.6	28.27	20.5	5.3	2.15	4.62	Horizontal
848.8	28.61	20.5	5.3	2.15	4.96	Horizontal

EGPRS

Frequency(MHz)	Peak ERP(dBm)	P _{cl} Path Loss(dB)	G _a Antenna Gain(dB)	Correction	P _{Mea} (dBm)	Polarization
				(dBm)		
824.2	21.42	20.5	5.3	2.15	-2.23	Horizontal
836.6	23.04	20.5	5.3	2.15	-0.61	Horizontal
848.8	23.40	20.5	5.3	2.15	-0.25	Horizontal

Frequency: 848.8MHz

Peak ERP(dBm)= P_{Mea}(4.99dBm)+ P_{cl}(20.5dB)+G_a (5.3dB)-2.15dBm= 28.64dBm

ANALYZER SETTINGS: RBW = VBW = 3MHz

PCS1900-EIRP 24.232(b)

Limits

	Power Step	Burst Peak EIRP (dBm)
GSM	0	≤33dBm (2W)
GPRS	3	≤33dBm (2W)
EGPRS	5	≤33dBm (2W)

Measurement result

GSM

Frequency(MHz)	Peak ERP(dBm)	P _{cl} Path Loss(dB)	G _a Antenna Gain(dB)	P _{Mea} (dBm)	Polarization
1850.2	27.02	-10.9	27.5	10.42	Horizontal
1880	27.65	-10.8	27.5	10.95	Horizontal
1909.8	27.21	-11.3	27.5	11.01	Horizontal

GPRS

Frequency(MHz)	Peak ERP(dBm)	P _{cl} Path Loss(dB)	G _a Antenna Gain(dB)	P _{Mea} (dBm)	Polarization
1850.2	27.00	-10.9	27.5	10.4	Horizontal
1880	27.67	-10.8	27.5	10.97	Horizontal
1909.8	27.21	-11.3	27.5	11.01	Horizontal

EGPRS

Frequency(MHz)	Peak ERP(dBm)	P _{cl} Path Loss(dB)	G _a Antenna Gain(dB)	P _{Mea} (dBm)	Polarization
1850.2	24.61	-10.9	27.5	8.01	Horizontal
1880	25.21	-10.8	27.5	8.51	Horizontal
1909.8	24.62	-11.3	27.5	8.42	Horizontal

Frequency: 1880MHz

Peak EIRP(dBm)= P_{Mea}(10.97dBm)+ P_{cl}(-10.8dB)+G_a (27.5dB) =27.67 dBm

ANALYZER SETTINGS: RBW = VBW = 3MHz

A.2 EMISSION LIMIT (§2.1051/§24.238)

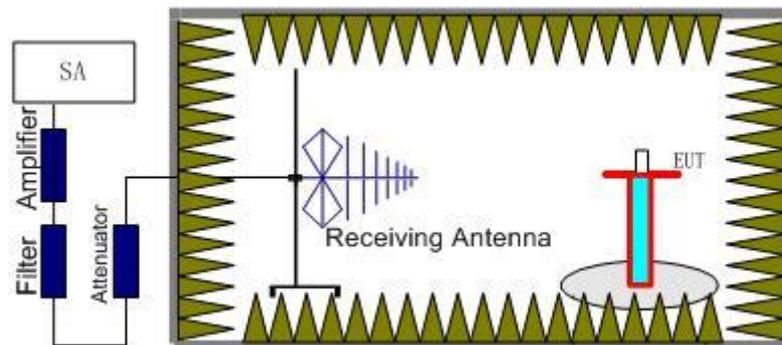
A.2.1 Measurement Method

The measurements procedures in TIA-603C-2004 are used.

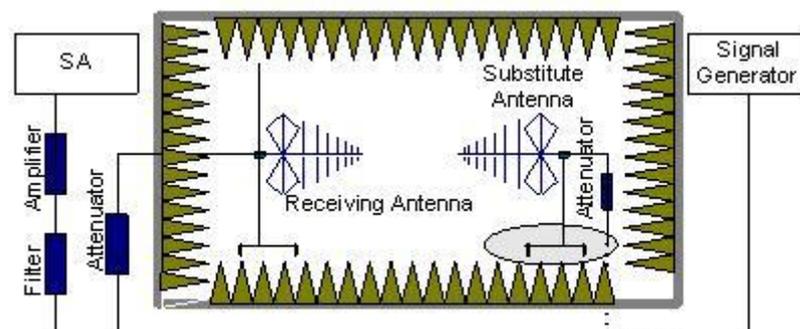
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz. The resolution bandwidth is set 1MHz as outlined in Part 24.238. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of the PCS1900 band ,GSM850 band.

The procedure of radiated spurious emissions is as follows:

5. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



6. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (P_r).
7. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the

substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

8. The cable loss (P_{cl}) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain (G_a) should be recorded after test.

The measurement results are obtained as described below:

$$\text{Power(EIRP)} = P_{Mea} + P_{cl} + G_a$$

9. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
10. ERP can be calculated from EIRP by subtracting the gain of the dipole, $ERP = EIRP - 2.15\text{dBi}$.

A.2.2 Measurement Limit

Sec. 24.238 Emission Limits.

(a) On any frequency outside a licensee's frequency block (e.g. A, D, B, etc.) within the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P , in Watts) by at least $43 + 10\log(P)$ dB. The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the PCS band (1850.2 MHz, 1880 MHz and 1909.8 MHz) ,GSM850 band (824.2MHz, 836.6MHz, 848.8MHz) . It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the PCS1900 ,GSM850 into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.

A.2.4 Measurement Results Table

Frequency	Channel	Frequency Range	Result
GSM 850MHz	Low	30MHz-10GHz	Pass
	Middle	30MHz-10GHz	Pass
	High	30MHz-10GHz	Pass
GSM 1900MHz	Low	30MHz-20GHz	Pass
	Middle	30MHz-20GHz	Pass
	High	30MHz-20GHz	Pass

A.2.5 Sweep Table

Working Frequency	Subrange (GHz)	RBW	VBW	Sweep time (s)
850MHz	0.03~1	100KHz	300KHz	10
	1-2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	8~10	1 MHz	3 MHz	3
1900MHz	0.03~1	100KHz	300KHz	10
	1-2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	8~11	1 MHz	3 MHz	3
	11~14	1 MHz	3 MHz	3
	14~18	1 MHz	3 MHz	3
	18~20	1 MHz	3 MHz	2

GSM Mode Channel 128/824.2MHz

Frequency(MHz)	Peak ERP(dBm)	Cable Loss	Antenna Gain	Correction	P _{Mea} (dBm)	Limit (dBm)	Polarization
				(dBm)			
1646.4	-50.3582	-40.8	25.2	2.15	-32.6082	-13	Vertical
1647.75	-46.3655	-40.8	25.2	2.15	-28.6155	-13	Vertical
1649.1	-46.7008	-40.8	25.2	2.15	-28.9508	-13	Vertical
1650.6	-51.09	-40.8	25.2	2.15	-33.34	-13	Vertical
2470.65	-47.2502	-42.6	27.5	2.15	-30.0002	-13	Vertical
2472.15	-44.1622	-42.6	27.5	2.15	-26.9122	-13	Vertical

GSM Mode Channel 190/836.6MHz

Frequency(MHz)	Peak ERP(dBm)	Cable Loss	Antenna Gain	Correction	P _{Mea} (dBm)	Limit (dBm)	Polarization
				(dBm)			
1670.4	-48.4794	-40.7	25.2	2.15	-30.8294	-13	Horizontal
1671.75	-42.5086	-40.7	25.2	2.15	-24.8586	-13	Horizontal
1672.05	-41.687	-40.7	25.2	2.15	-24.037	-13	Horizontal
1672.95	-40.1612	-40.7	25.2	2.15	-22.5112	-13	Horizontal
2508	-44.6083	-42.7	29.2	2.15	-28.9583	-13	Vertical
2509.35	-41.7169	-42.7	29.2	2.15	-26.0669	-13	Vertical

GSM Mode Channel 251/848.8MHz

Frequency(MHz)	Peak ERP(dBm)	Cable Loss	Antenna Gain	Correction	P _{Mea} (dBm)	Limit (dBm)	Polarization
				(dBm)			
1694.7	-50.0857	-40.8	25.2	2.15	-32.3357	-13	Horizontal
1696.2	-43.6379	-40.7	25.2	2.15	-25.9879	-13	Horizontal
1696.95	-40.8408	-40.7	25.2	2.15	-23.1908	-13	Vertical
1697.55	-41.4603	-40.7	25.2	2.15	-23.8103	-13	Horizontal
1698.3	-42.3819	-40.7	25.2	2.15	-24.7319	-13	Vertical
1698.9	-43.6766	-40.7	25.2	2.15	-26.0266	-13	Horizontal

GSM Mode Channel 512/1850.2MHz

Frequency(MHz)	Peak ERP(dBm)	Cable Loss	Antenna Gain	P _{Mea} (dBm)	Limit (dBm)	Polarization
2001.2	-43.8056	-41.2	27.5	-30.1056	-13	Vertical
5550.5	-44.4475	-42.7	35.1	-36.8475	-13	Vertical
7399.7	-42.529	-44.7	36.3	-34.129	-13	Vertical
9700.1	-41.7466	-45.4	38.7	-35.0466	-13	Horizontal
12950.3	-37.5757	-47.1	39.5	-29.9757	-13	Vertical
15731.6	-35.287	-50.3	38.2	-23.187	-13	Vertical

GSM Mode Channel 661/1880.0MHz

Frequency(MHz)	Peak ERP(dBm)	Cable Loss	Antenna Gain	P _{Mea} (dBm)	Limit (dBm)	Polarization
2002.7	-43.0006	-41.2	27.5	-29.3006	-13	Horizontal
7947.2	-43.6604	-44.1	37.4	-36.9604	-13	Vertical
9970.7	-42.2554	-45.2	38.7	-35.7554	-13	Vertical
13160.9	-35.2684	-46.5	40.8	-29.5684	-13	Vertical
15697.6	-34.896	-49.8	38.2	-23.296	-13	Horizontal
17503.2	-28.7073	-50.8	44.7	-22.6073	-13	Vertical

GSM Mode Channel 810/1909.8MHz

Frequency(MHz)	Peak ERP(dBm)	Cable Loss	Antenna Gain	P _{Mea} (dBm)	Limit (dBm)	Polarization
2000.3	-40.379	-41.2	27.5	-26.679	-13	Horizontal
7639.1	-43.0643	-44.7	37.4	-35.7643	-13	Vertical
9260.9	-42.3853	-45.7	38.9	-35.5853	-13	Horizontal
9944	-41.7681	-45.3	38.7	-35.1681	-13	Vertical
15737.2	-35.4481	-50.3	38.2	-23.3481	-13	Horizontal
17544	-27.984	-50.8	44.7	-21.884	-13	Horizontal

A.3 CONDUCTED EMISSION (§15.107§15.207)

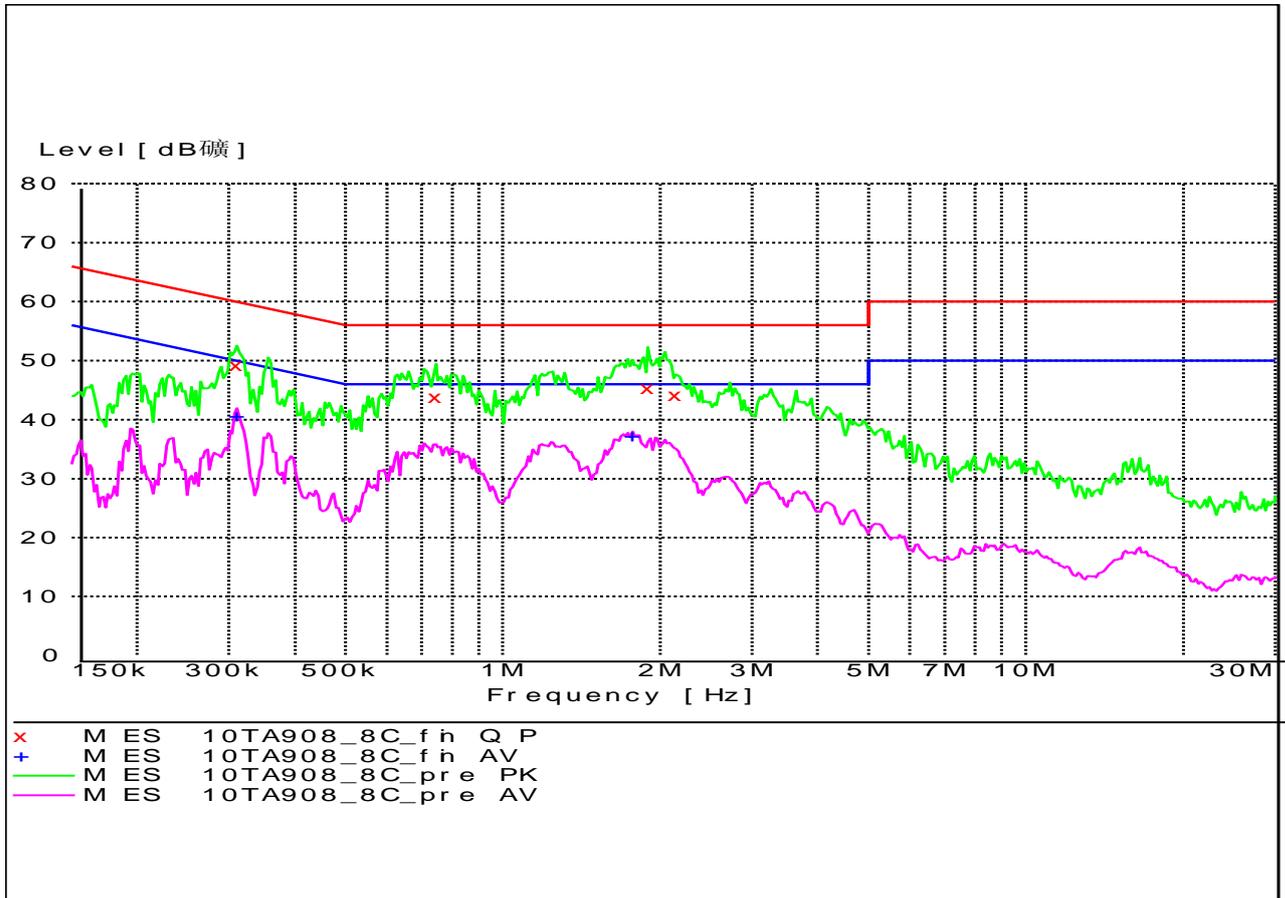
The measurement procedure in ANSI C63.4-1003 is used. Conducted Emission is measured with travel charger.

A.3.1 Limit

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi -Peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

* Decreases with logarithm of the frequency

A.3.2 Measurement result
GSM850MHz



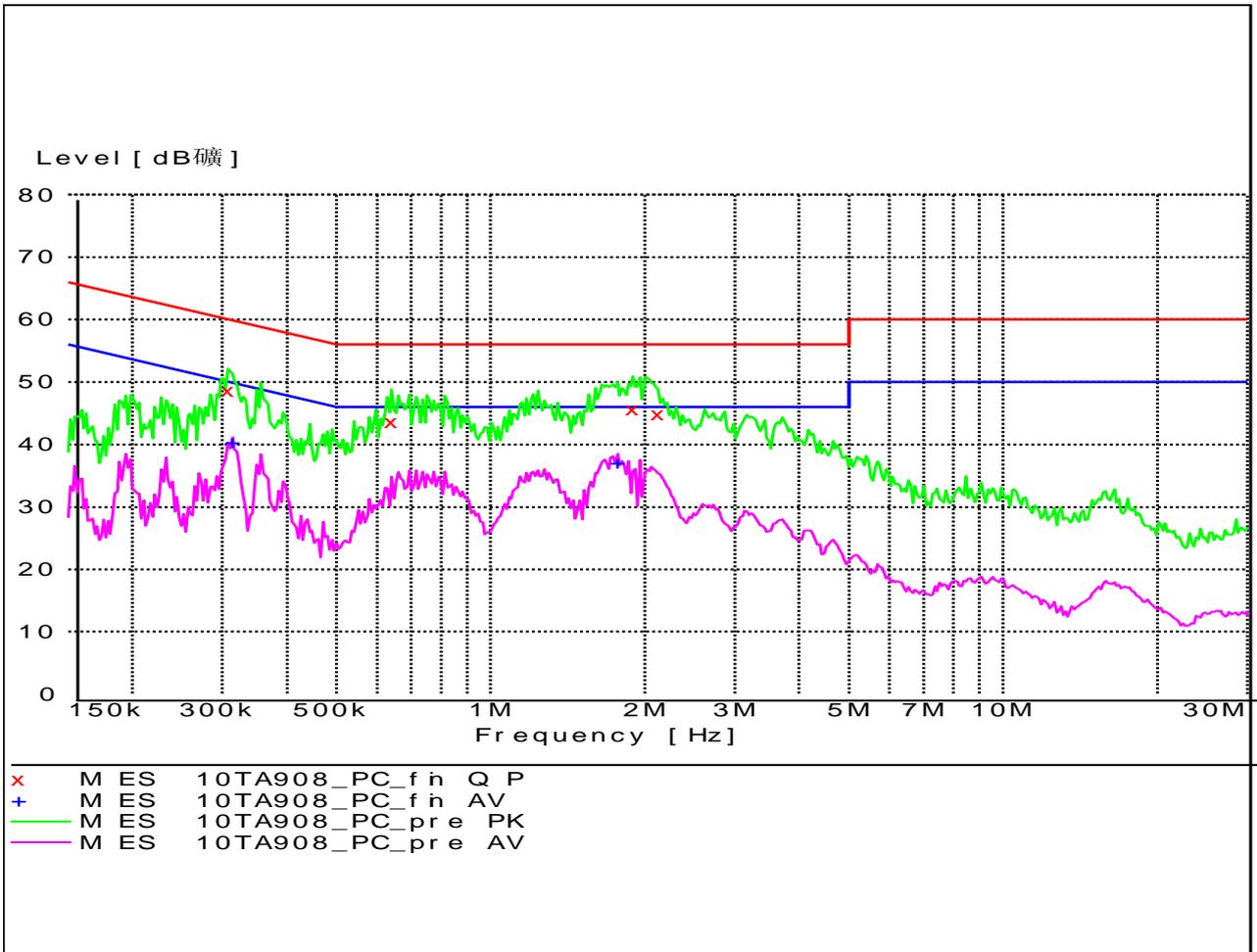
MEASUREMENT RESULT: "10TA908_8C_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dB μ V	dB	dB μ V	dB	dB	
0.310136	49.20	10.1	60	10.7	L1	FLO
0.744445	43.90	10.1	56	12.1	L1	GND
1.896887	45.30	10.1	56	10.7	L1	GND
2.144271	44.10	10.1	56	11.9	L1	FLO

MEASUREMENT RESULT: "10TA908_8C_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dB μ V	dB	dB μ V	dB	dB	
0.310136	40.60	10.1	50	9.3	L1	GND
1.769261	37.30	10.1	46	8.7	L1	GND

PCS1900MHz



MEASUREMENT RESULT: "10TA908_PC_fin QP"

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Line	PE
0.307065	48.70	10.1	60	11.4	L1	GND
0.641227	43.60	10.1	56	12.4	L1	GND
1.896887	45.60	10.1	56	10.4	L1	FLO
2.123040	44.80	10.1	56	11.2	L1	GND

MEASUREMENT RESULT: "10TA908_PC_fin AV"

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Line	PE
0.313237	40.30	10.1	50	9.6	L1	GND
1.769261	37.00	10.1	46	9.0	L1	FLO

A.4 FREQUENCY STABILITY (§2.1055/§24.235)

A.4.1 Method of Measurement

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMU200 DIGITAL RADIO COMMUNICATION TESTER.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on channel 661 for PCS 1900, channel 190 for GSM850 measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
5. Remeasure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments remeasuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 C increments from +50°C to -30°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

A.4.2 Measurement Limit

A.4.2.1 For Hand carried battery powered equipment

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of between 3.5VDC and 4.2VDC, with a nominal voltage of 3.7VDC. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress. These voltages represent a tolerance of -10 % and +12.5 %. For the purposes of measuring frequency stability these voltage limits are to be used.

A.4.2.2 For equipment powered by primary supply voltage

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. For this EUT section

2.1055(d)(1) applies. This requires varying primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

A.4.3 Measurement results

GSM 850

Frequency Error vs Voltage

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
4.8	-9	0.011
5.0	-15	0.017
5.2	-20	0.024

Frequency Error vs Temperature

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	-23	0.027
-20	-23	0.027
-10	-18	0.022
0	-18	0.022
10	-15	0.017
20	-15	0.017
30	-15	0.017
40	-23	0.027
50	-26	0.031

PCS 1900

Frequency Error vs Voltage

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
4.8	-50	0.027
5.0	-56	0.030
5.2	-66	0.035

Frequency Error vs Temperature

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	-62	0.033
-20	-65	0.035
-10	-60	0.032
0	-59	0.031
10	-56	0.030
20	-56	0.030
30	-56	0.030
40	-65	0.035
50	-70	0.037

A.5 OCCUPIED BANDWIDTH (§2.1049(h)(i))

A.5.1 Occupied Bandwidth Results

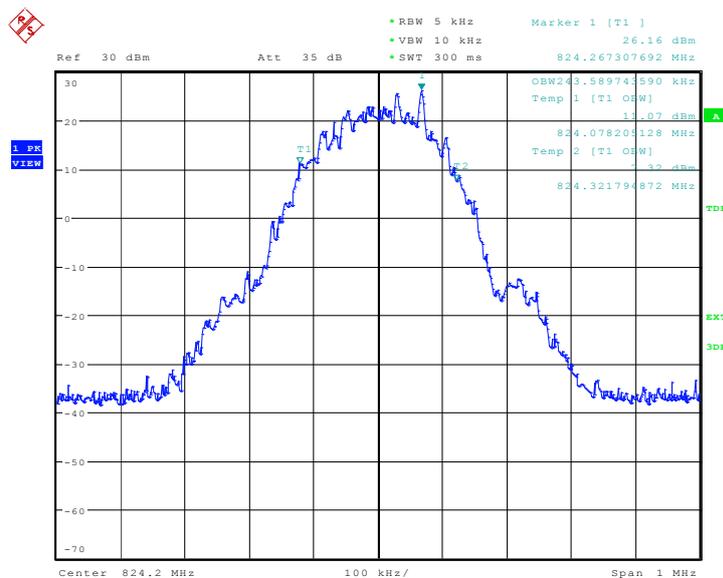
Similar to conducted emissions; occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the USPCS frequency band. The table below lists the measured -20dBc BW (99%). Spectrum analyzer plots are included on the following pages.

GSM 850(99%)

Frequency(MHz)	Occupied Bandwidth (99%)(kHz)
824.2	243.590
836.6	243.590
848.8	241.987

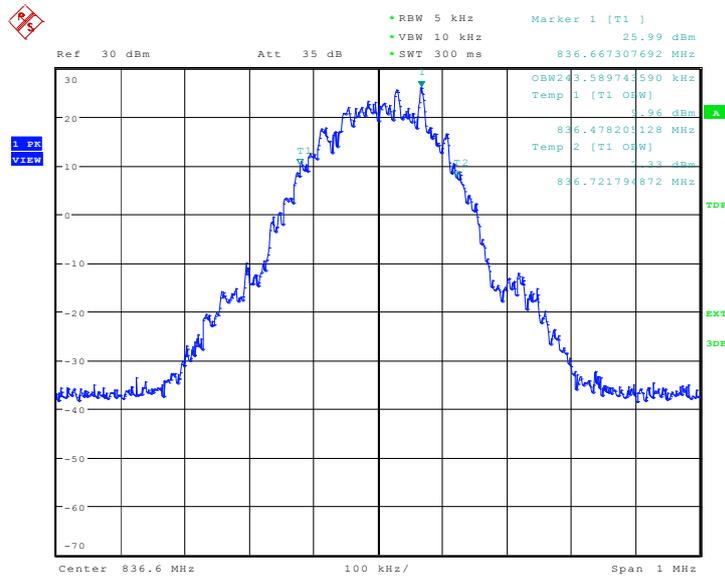
GSM 850

Channel 128-Occupied Bandwidth (99%)



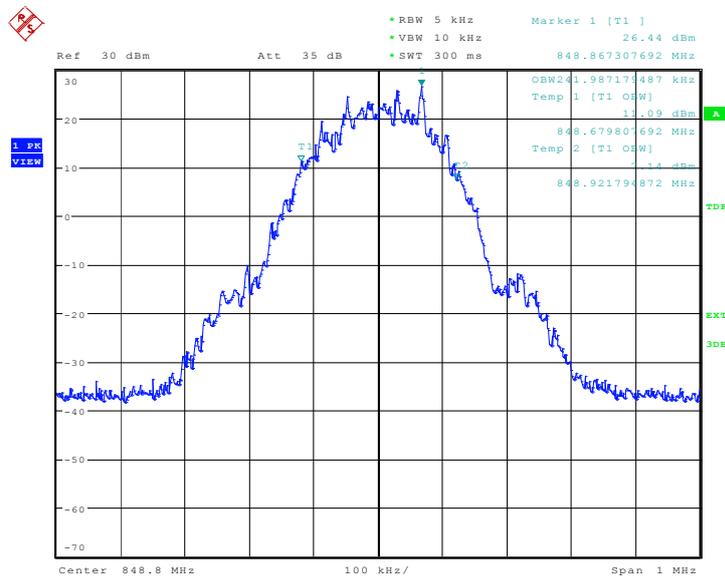
Date: 6 DEC 2010 06:28:57

Channel 190-Occupied Bandwidth (99%)



Date: 6.DEC.2010 06:29:25

Channel 251-Occupied Bandwidth (99%)



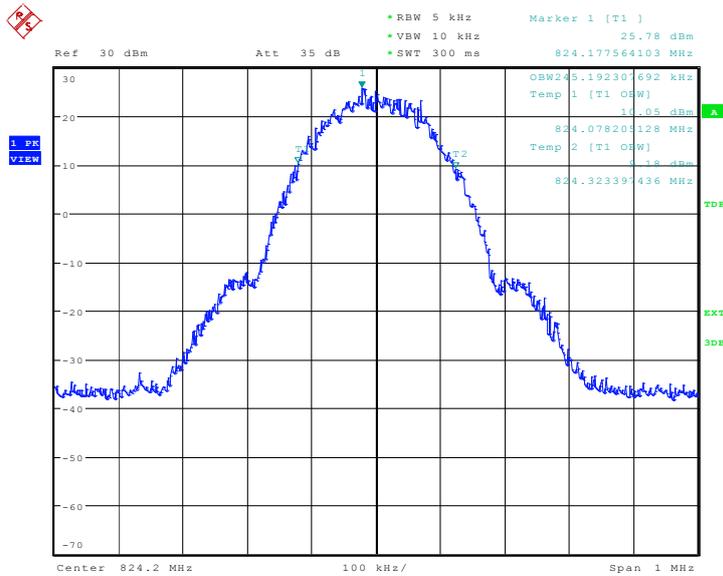
Date: 6.DEC.2010 06:29:52

GPRS 850(99%)

Frequency(MHz)	Occupied Bandwidth (99%)(kHz)
824.2	245.192
836.6	246.795
848.8	245.192

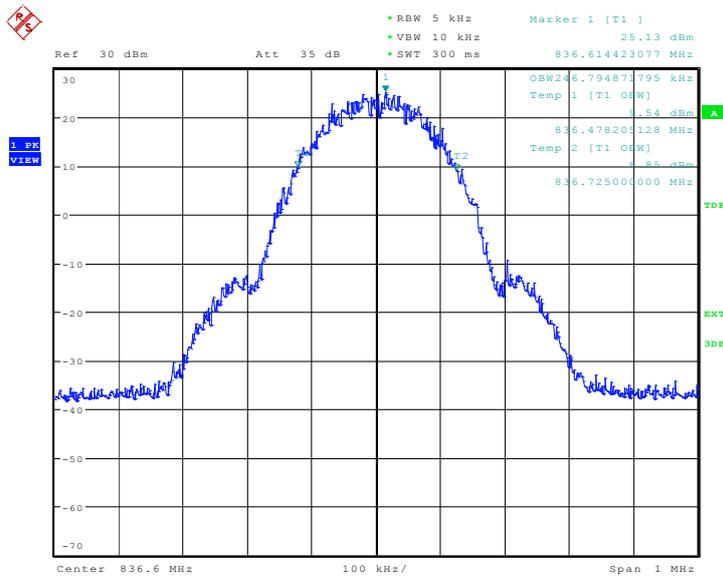
GPRS 850

Channel 128-Occupied Bandwidth (99%)



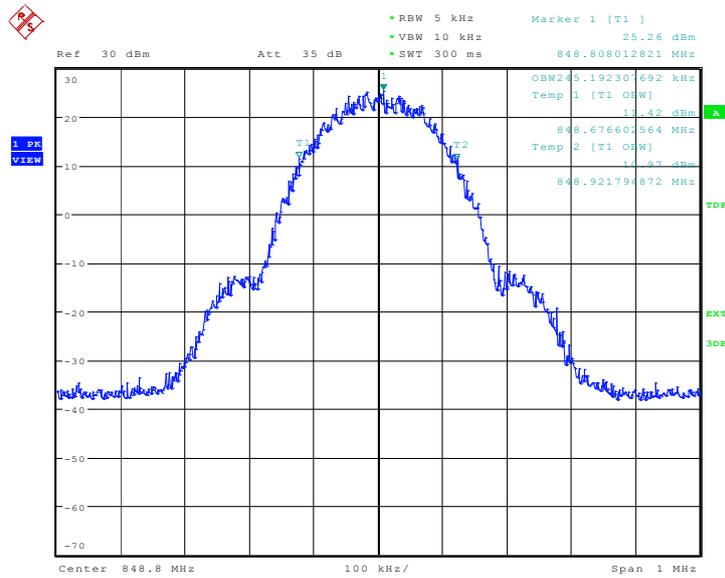
Date: 6.DEC.2010 06:42:52

Channel 190-Occupied Bandwidth (99%)



Date: 6.DEC.2010 06:43:19

Channel 251-Occupied Bandwidth (99%)



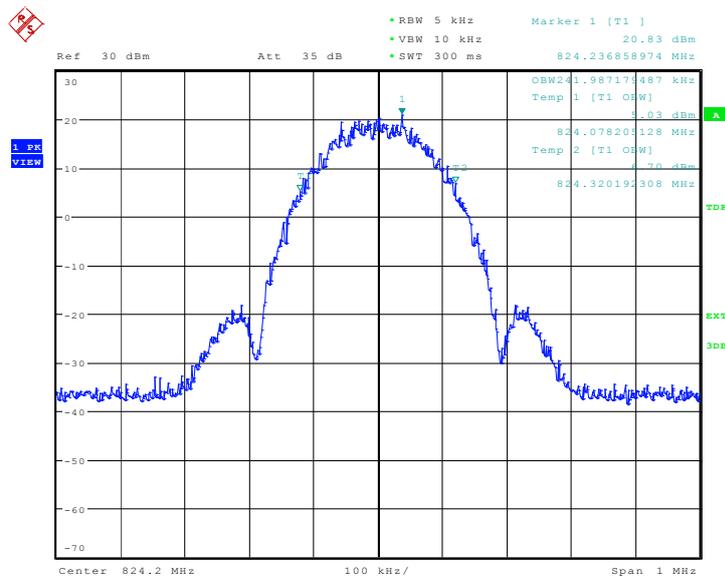
Date: 6.DEC.2010 06:43:46

EGPRS 850(99%)

Frequency(MHz)	Occupied Bandwidth (99%)(kHz)
824.2	241.987
836.6	241.987
848.8	245.192

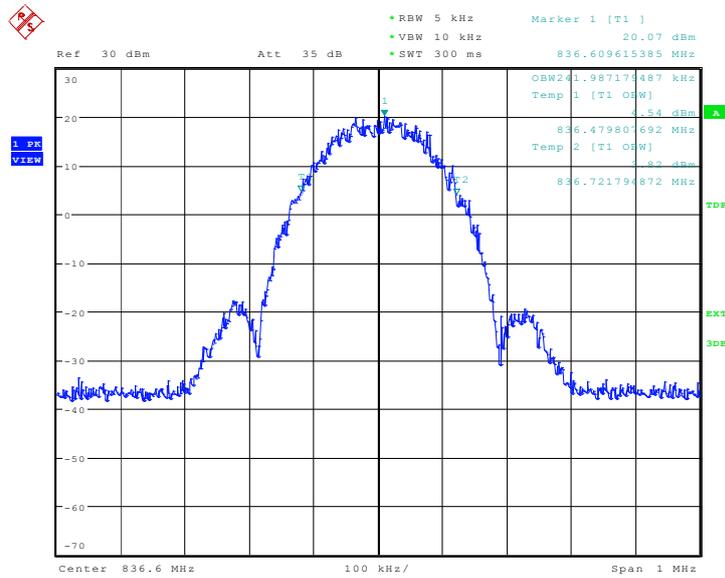
EGPRS 850

Channel 128-Occupied Bandwidth (99%)



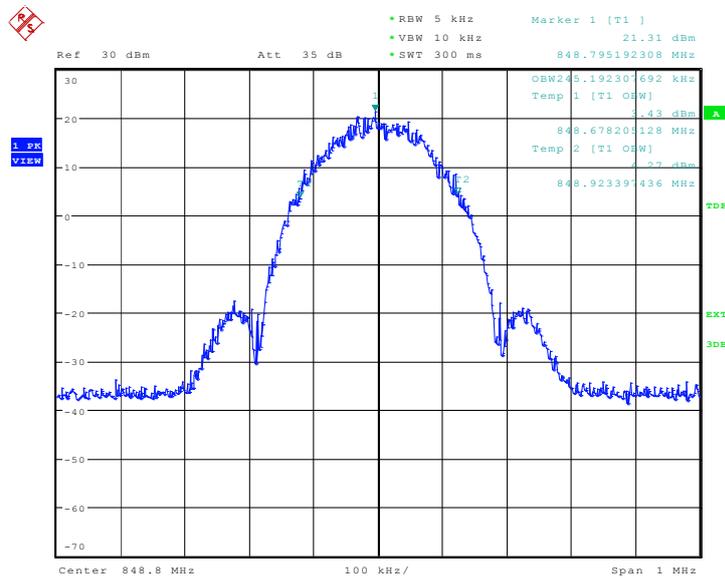
Date: 6.DEC.2010 22:47:07

Channel 190-Occupied Bandwidth (99%)



Date: 6.DEC.2010 22:47:34

Channel 251-Occupied Bandwidth (99%)

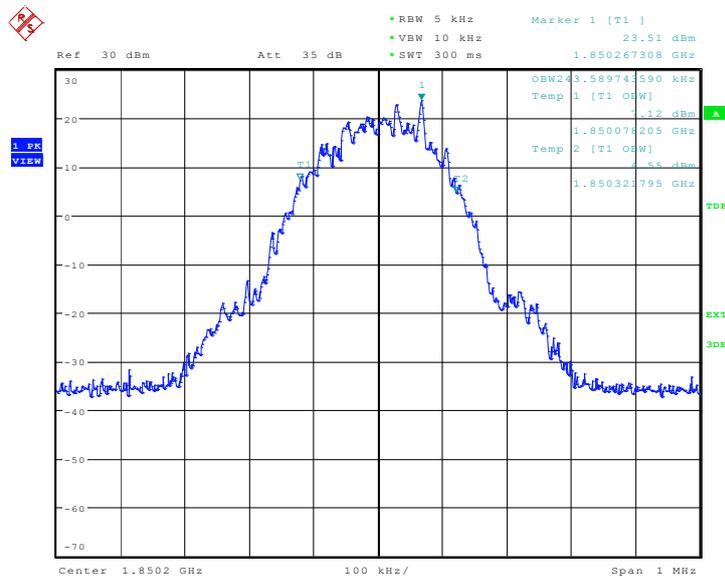


Date: 6.DEC.2010 22:48:01

PCS 1900(99%)

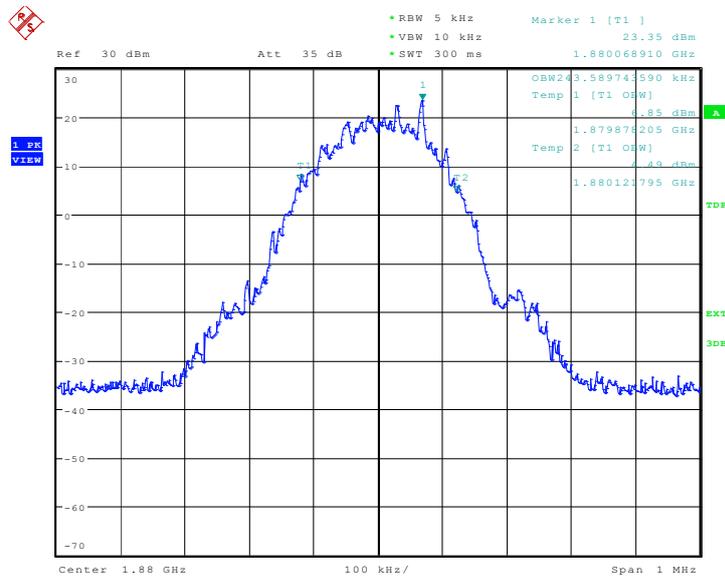
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)
1850.2	243.589
1880.0	243.589
1909.8	245.192

**PCS 1900
Channel 512-Occupied Bandwidth (99%)**



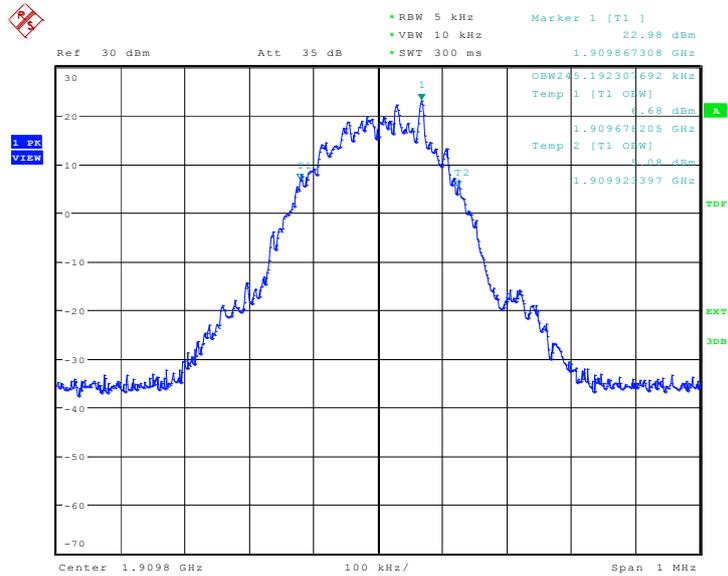
Date: 6.DEC.2010 22:54:13

Channel 661-Occupied Bandwidth (99%)



Date: 6.DEC.2010 22:54:40

Channel 810-Occupied Bandwidth (99%)



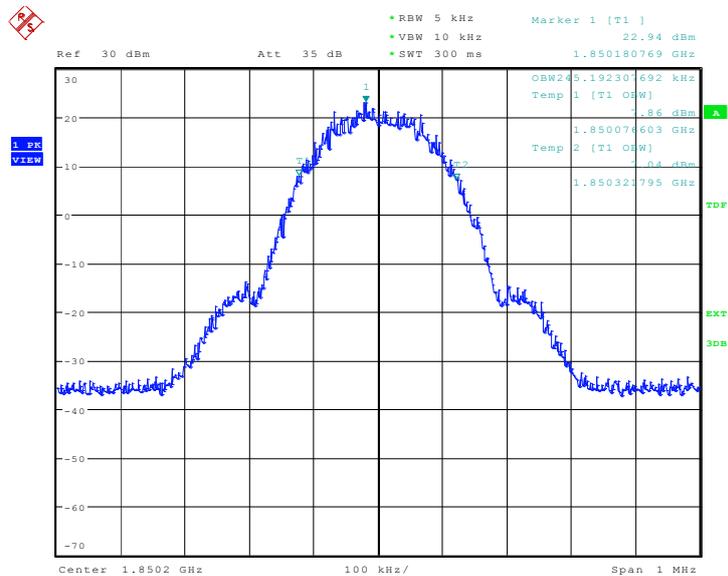
Date: 6.DEC.2010 22:55:07

GPRS 1900(99%)

Frequency(MHz)	Occupied Bandwidth (99%)(kHz)
1850.2	245.192
1880.0	241.987
1909.8	243.589

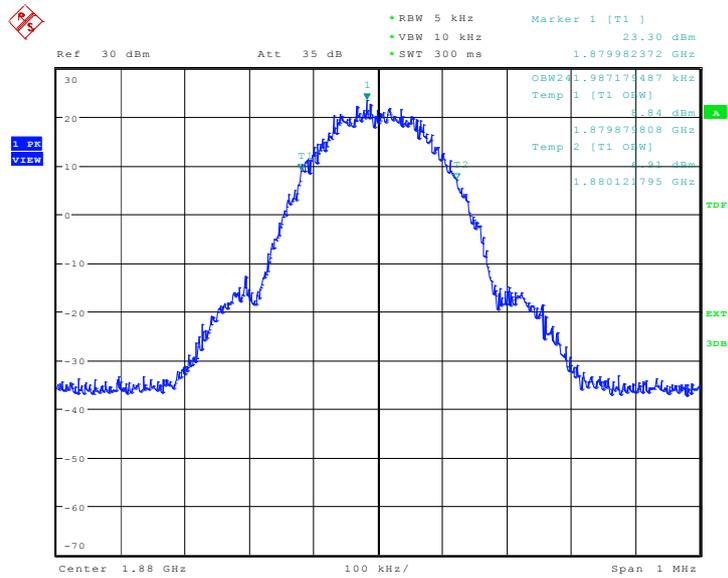
GPRS 1900

Channel 512-Occupied Bandwidth (99%)



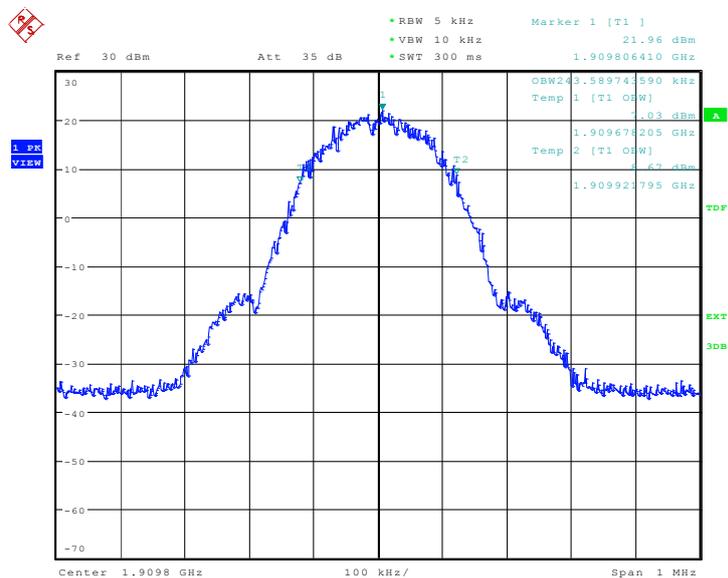
Date: 6.DEC.2010 23:04:03

Channel 661-Occupied Bandwidth (99%)



Date: 6.DEC.2010 23:04:31

Channel 810-Occupied Bandwidth (99%)



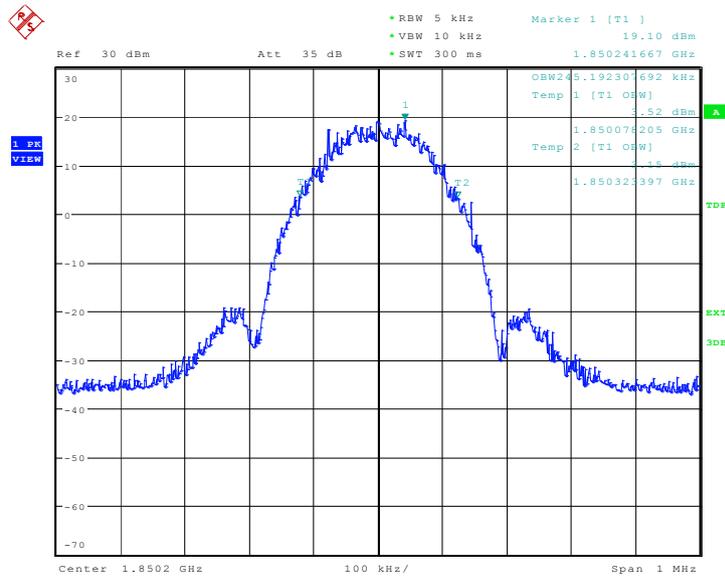
Date: 6.DEC.2010 23:04:58

EGPRS 1900(99%)

Frequency(MHz)	Occupied Bandwidth (99%)(kHz)
1850.2	245.192
1880.0	245.192
1909.8	241.987

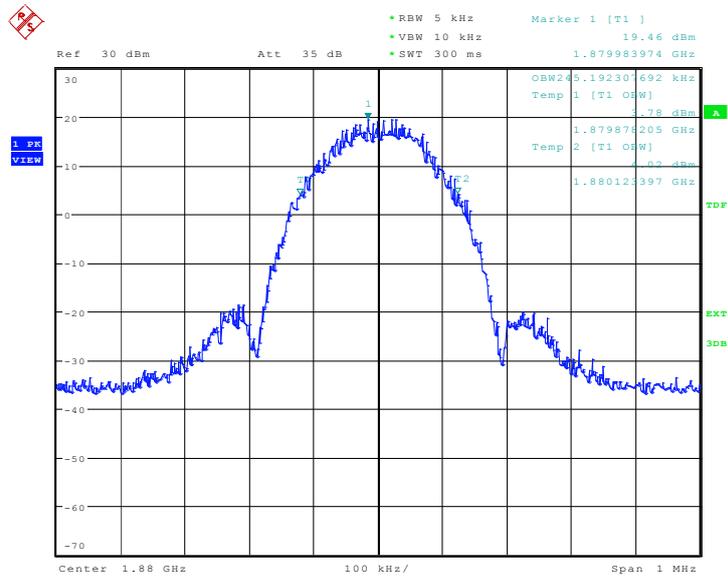
EGPRS 1900

Channel 512-Occupied Bandwidth (99%)



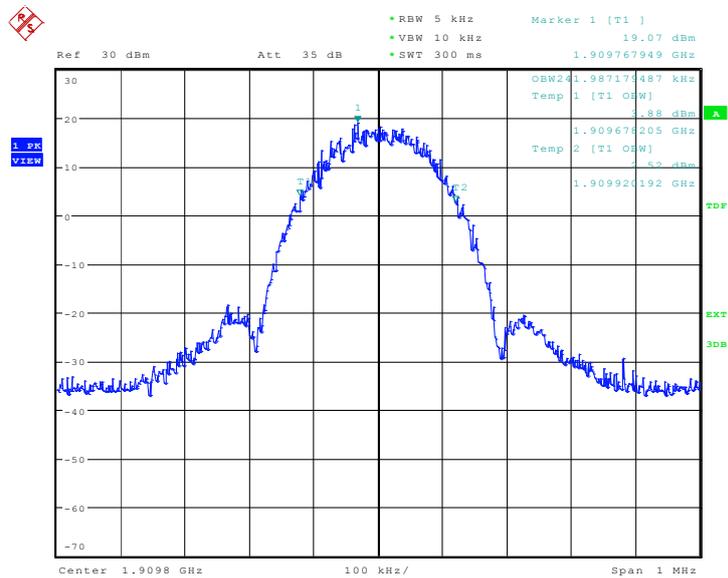
Date: 6.DEC.2010 23:40:08

Channel 661-Occupied Bandwidth (99%)



Date: 6.DEC.2010 23:40:35

Channel 810-Occupied Bandwidth (99%)



Date: 6.DEC.2010 23:41:02

A.6 EMISSION BANDWIDTH (§22.917(b)/§24.238(b))

A.6.1 Emission Bandwidth Results

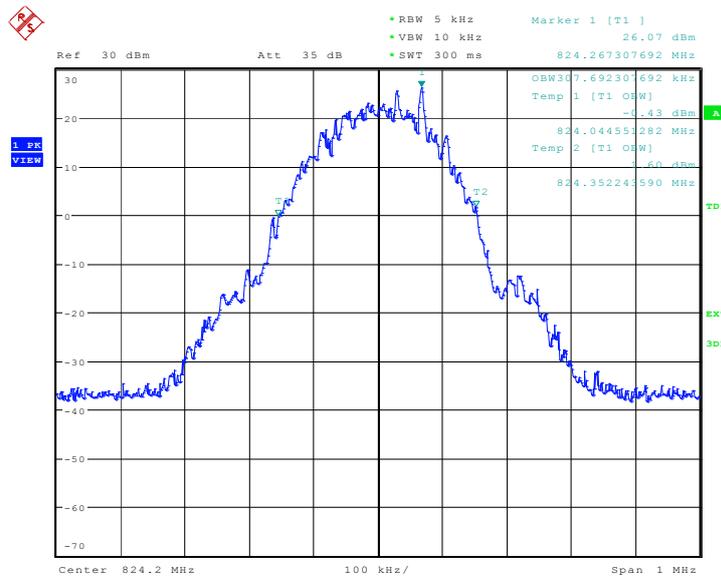
Similar to conducted emissions; Emission bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the PCS1900 band and GSM850 band. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.

GSM 850(-26dBc)

Frequency(MHz)	Occupied Bandwidth (-26dBc BW)(kHz)
824.2	307.692
836.6	307.692
848.8	307.692

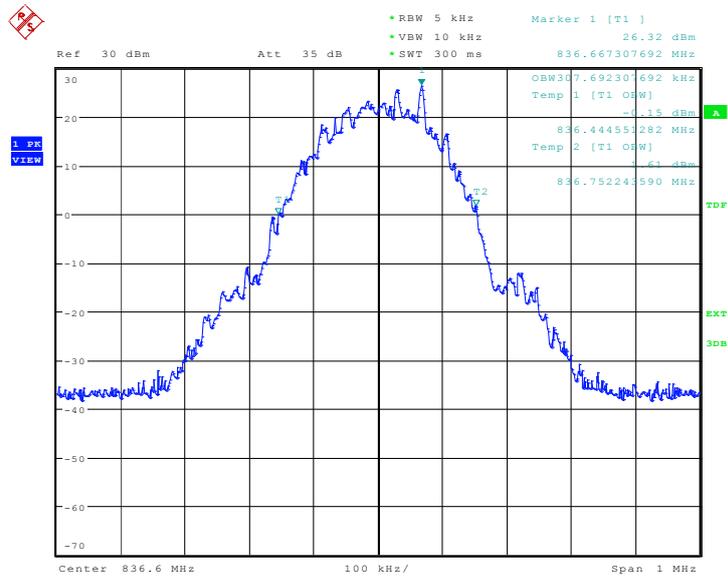
GSM 850

Channel 128-Occupied Bandwidth (-26dBc BW)



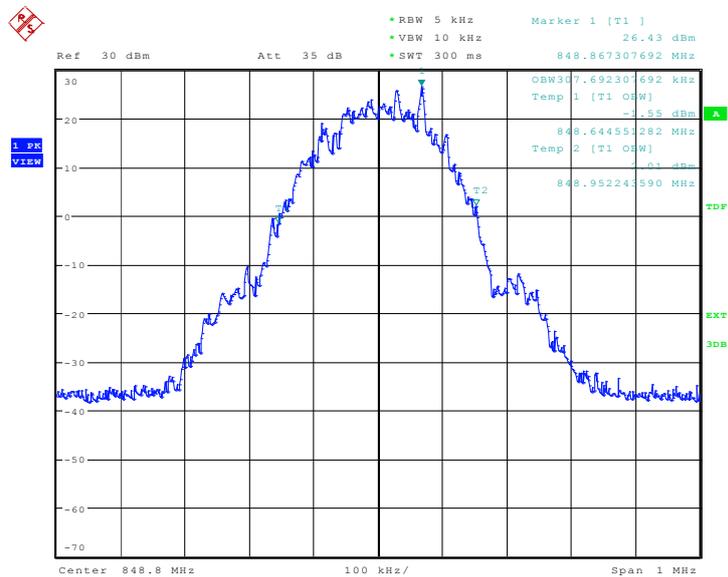
Date: 6.DEC.2010 06:30:21

Channel 190-Occupied Bandwidth (-26dBc BW)



Date: 6.DEC.2010 06:30:48

Channel 251-Occupied Bandwidth (-26dBc BW)



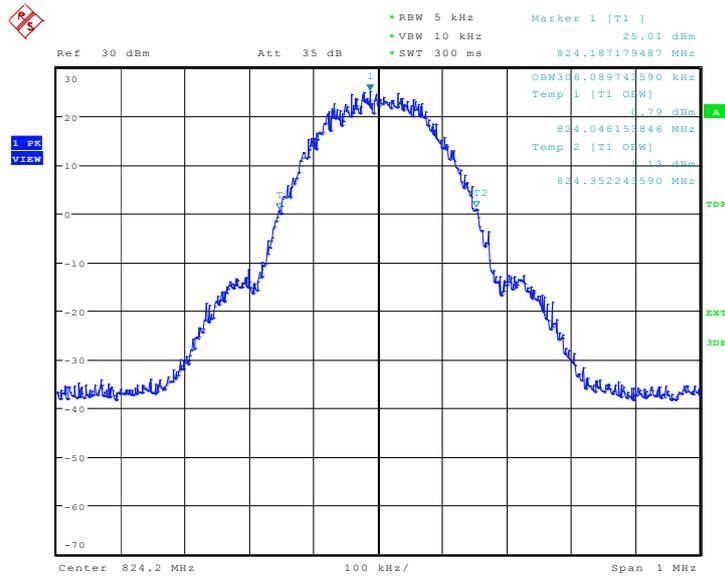
Date: 6.DEC.2010 06:31:15

GPRS 850(-26dBc)

Frequency(MHz)	Occupied Bandwidth (-26dBc BW)(kHz)
824.2	306.090
836.6	306.090
848.8	309.295

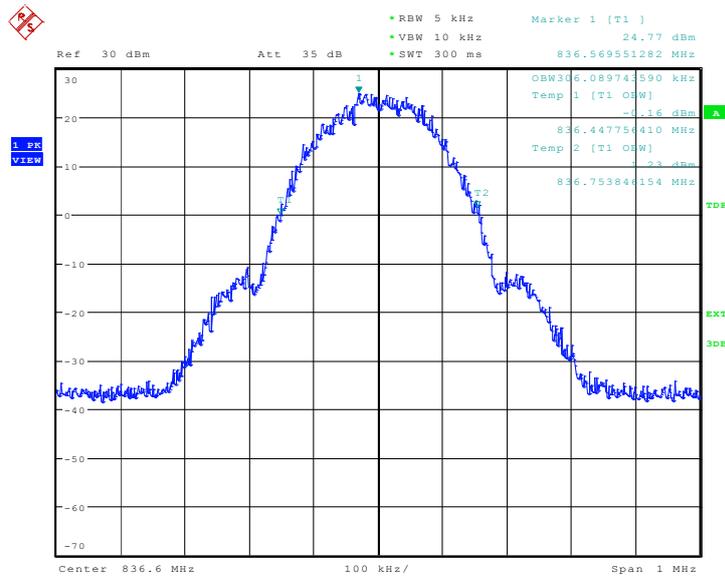
GPRS 850

Channel 128-Occupied Bandwidth (-26dBc BW)



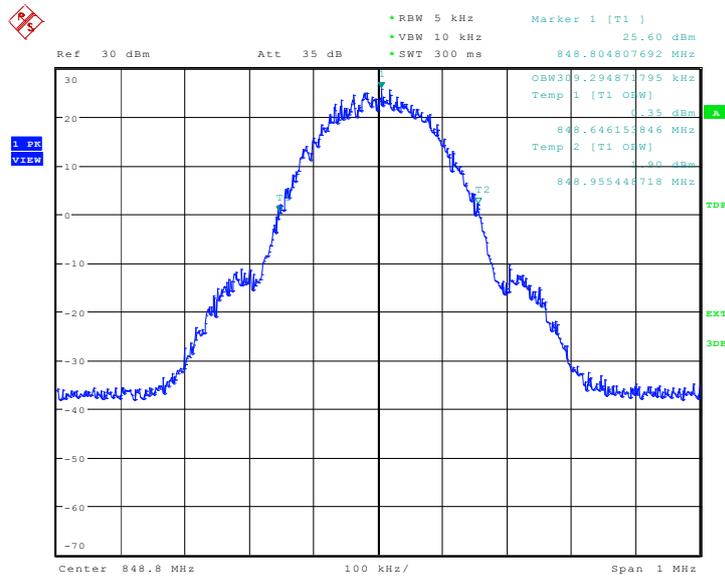
Date: 6.DEC.2010 06:44:15

Channel 190-Occupied Bandwidth (-26dBc BW)



Date: 6.DEC.2010 06:44:42

Channel 251-Occupied Bandwidth (-26dBc BW)



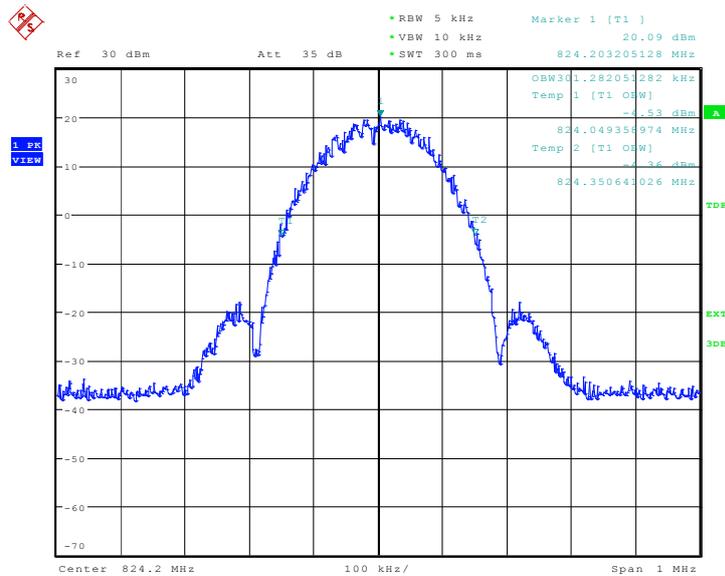
Date: 6.DEC.2010 06:45:09

EGPRS 850(-26dBc)

Frequency(MHz)	Occupied Bandwidth (-26dBc BW)(kHz)
824.2	301.282
836.6	298.077
848.8	298.077

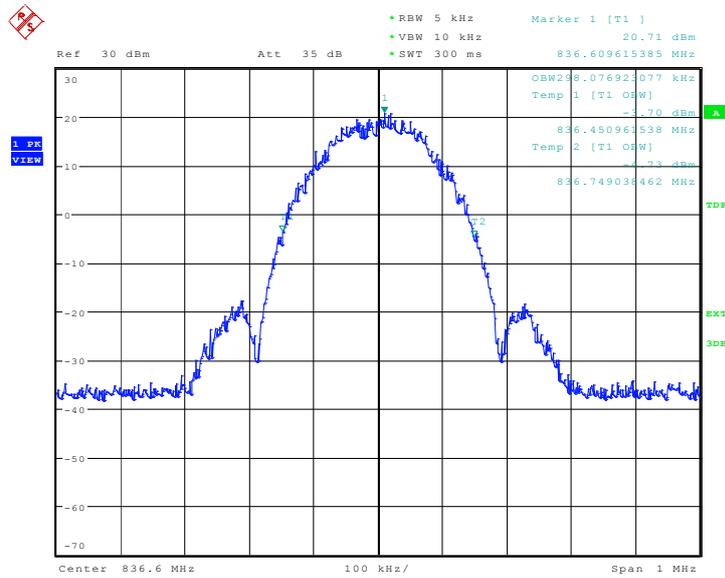
EGPRS 850

Channel 128-Occupied Bandwidth (-26dBc BW)



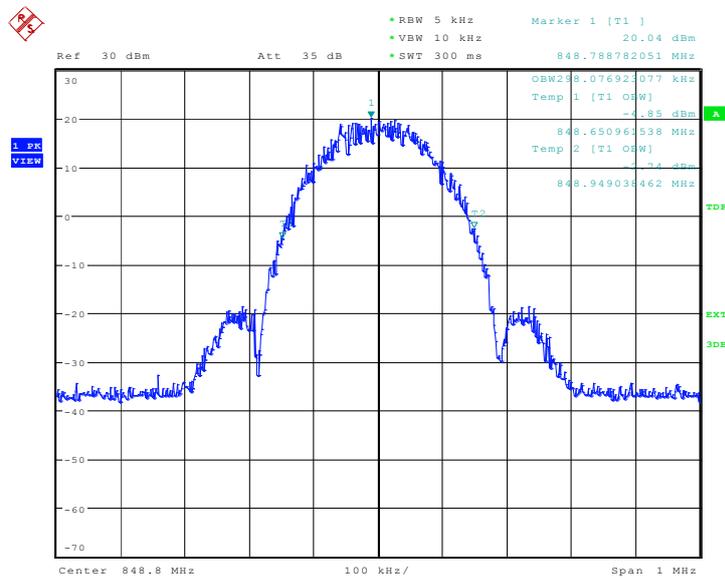
Date: 6.DEC.2010 22:48:31

Channel 190-Occupied Bandwidth (-26dBc BW)



Date: 6.DEC.2010 22:48:58

Channel 251-Occupied Bandwidth (-26dBc BW)



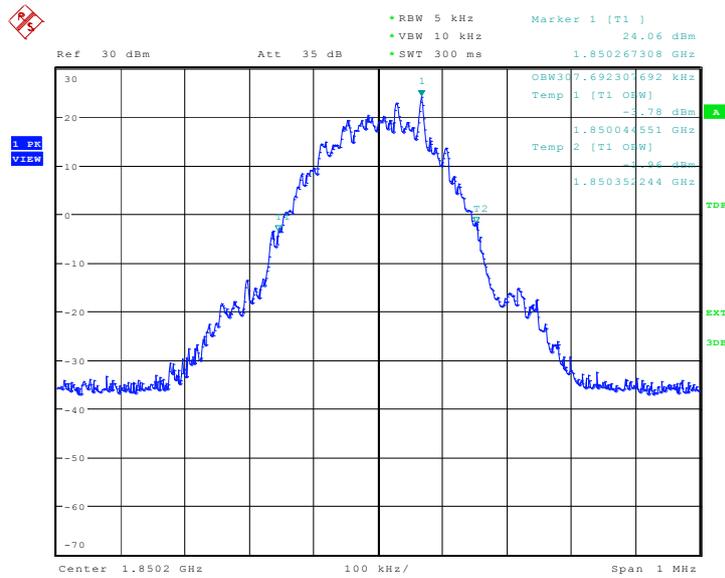
Date: 6.DEC.2010 22:49:25

PCS 1900(-26dBc)

Frequency(MHz)	Occupied Bandwidth (-26dBc BW)(kHz)
1850.2	307.692
1880.0	307.692
1909.8	307.692

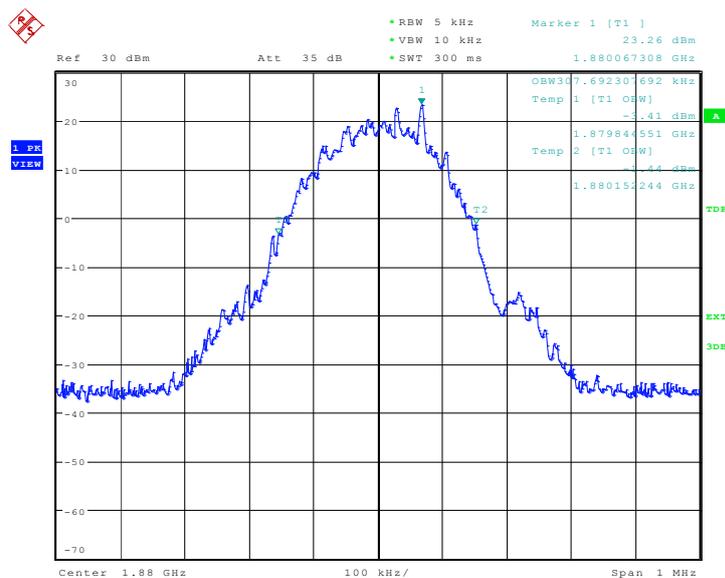
PCS 1900

Channel 512-Occupied Bandwidth (-26dBc BW)



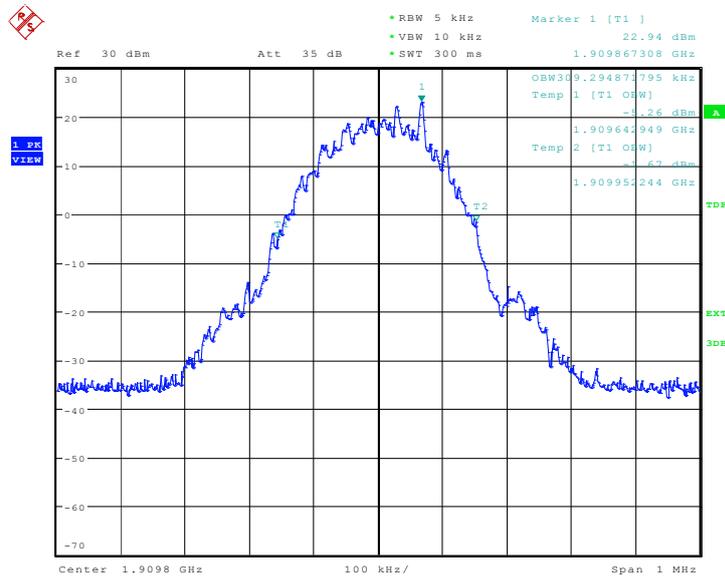
Date: 6.DEC.2010 22:55:37

Channel 661-Occupied Bandwidth (-26dBc BW)



Date: 6.DEC.2010 22:56:04

Channel 810-Occupied Bandwidth (-26dBc BW)



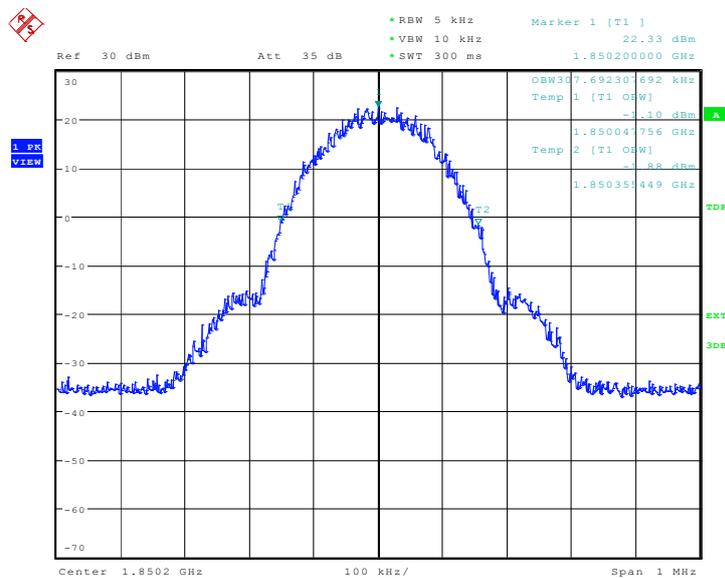
Date: 6.DEC.2010 22:56:31

GPRS 1900(-26dBc)

Frequency(MHz)	Occupied Bandwidth (-26dBc BW)(kHz)
1850.2	306.090
1880.0	306.090
1909.8	309.295

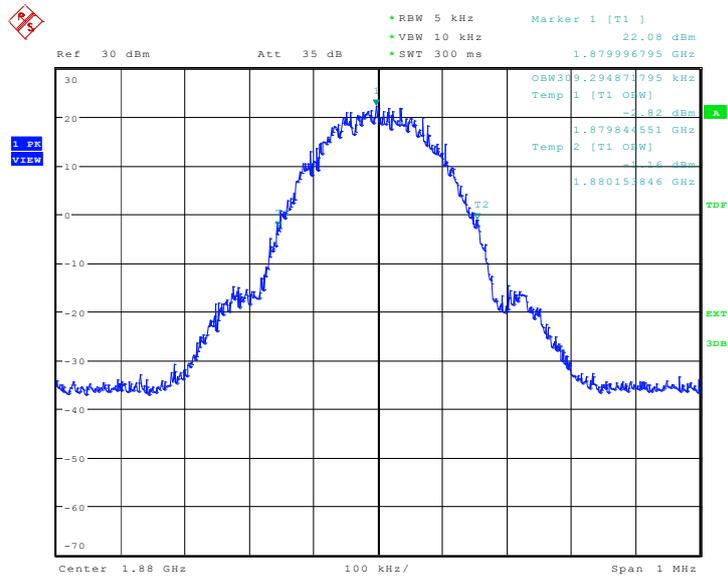
GPRS 1900

Channel 512-Occupied Bandwidth (-26dBc BW)



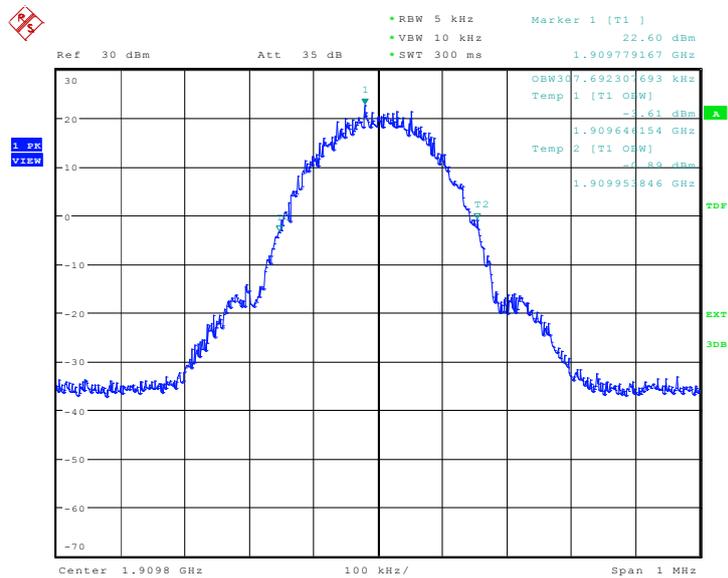
Date: 6.DEC.2010 23:05:27

Channel 661-Occupied Bandwidth (-26dBc BW)



Date: 6.DEC.2010 23:05:54

Channel 810-Occupied Bandwidth (-26dBc BW)



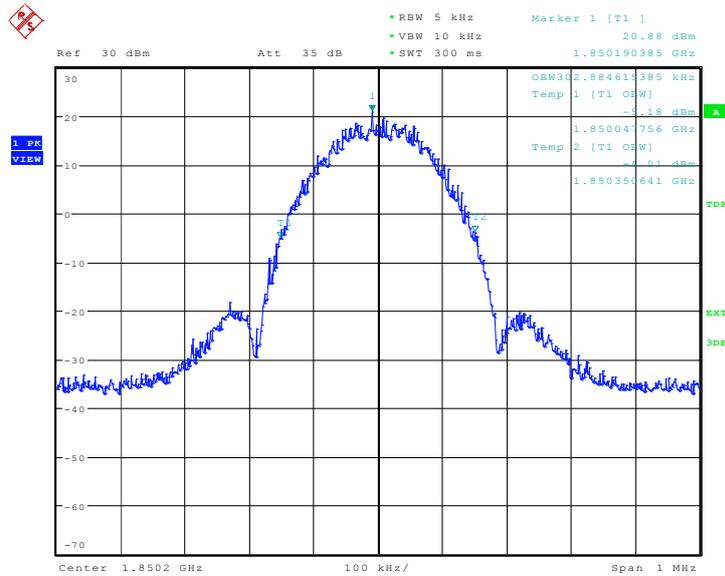
Date: 6.DEC.2010 23:06:22

EGPRS 1900(-26dBc)

Frequency(MHz)	Occupied Bandwidth (-26dBc BW)(kHz)
1850.2	302.885
1880.0	301.282
1909.8	302.885

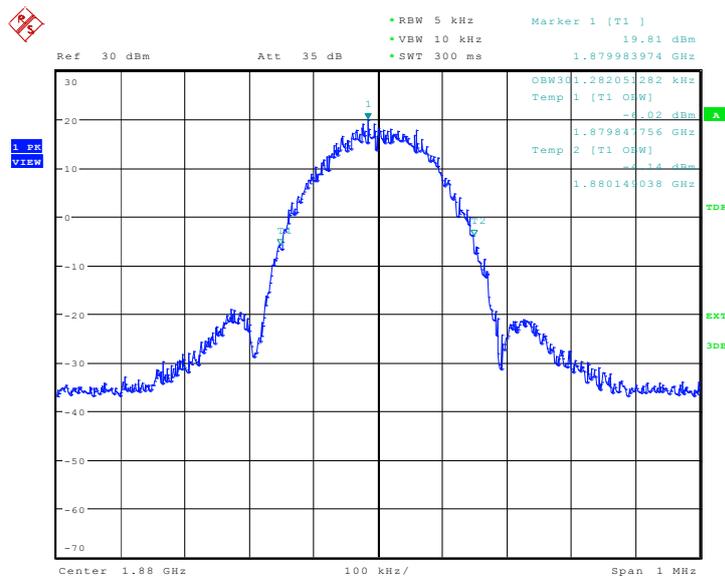
EGPRS 1900

Channel 512-Occupied Bandwidth (-26dBc BW)



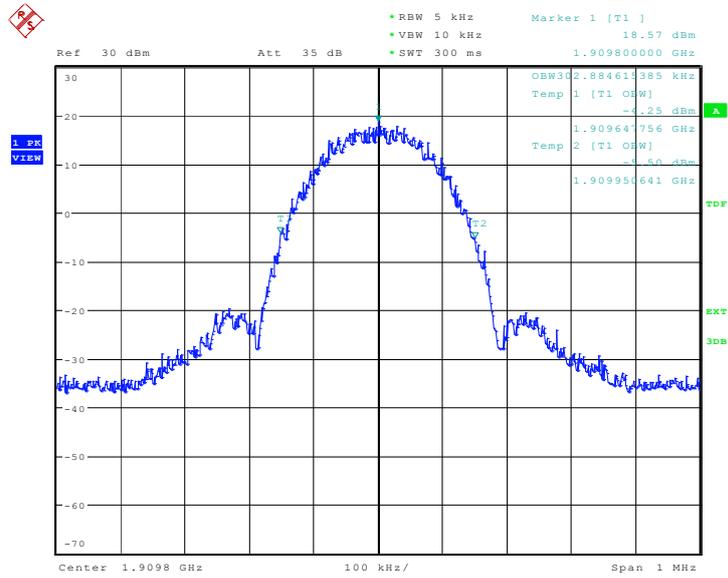
Date: 6.DEC.2010 23:41:31

Channel 661-Occupied Bandwidth (-26dBc BW)



Date: 6.DEC.2010 23:41:58

Channel 810-Occupied Bandwidth (-26dBc BW)

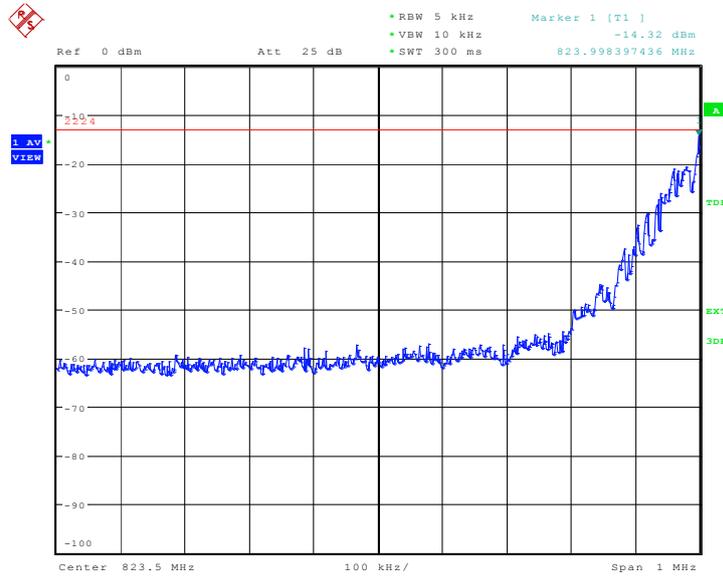


Date: 6.DEC.2010 23:42:25

A.7 BAND EDGE COMPLIANCE (\$22.917(b)/\$24.238(b))

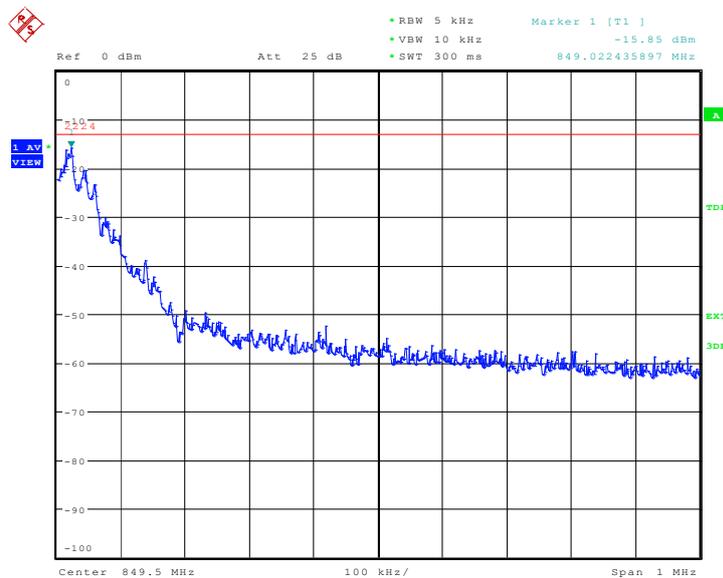
GSM 850

LOW BAND EDGE BLOCK-A (GSM850)-Channel 128



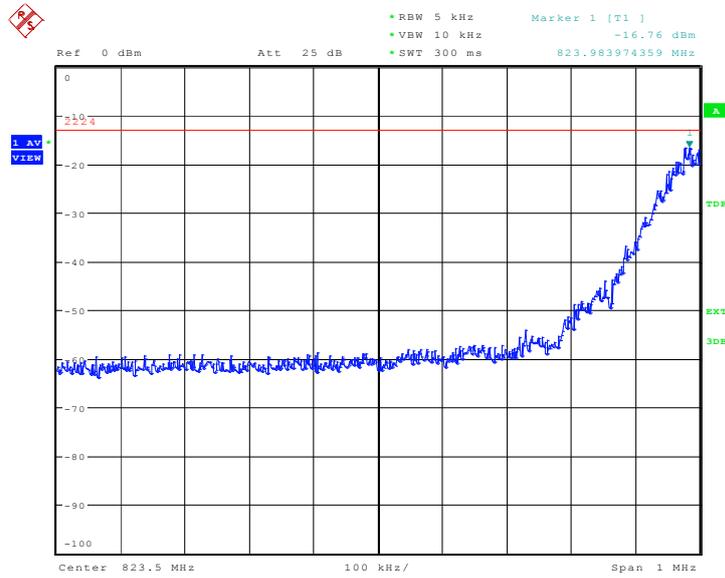
Date: 6.DEC.2010 06:31:44

HIGH BAND EDGE BLOCK-C (GSM850) –Channel 251



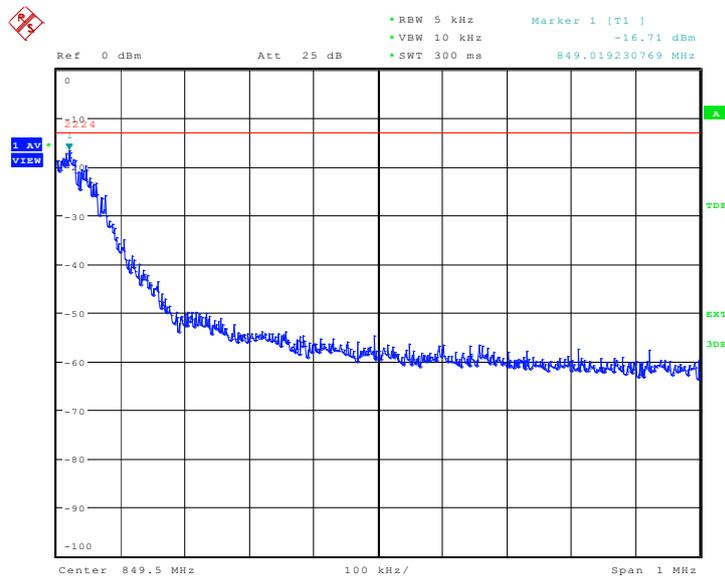
Date: 6.DEC.2010 06:32:13

GPRS 850
LOW BAND EDGE BLOCK-A (GSM850)-Channel 128



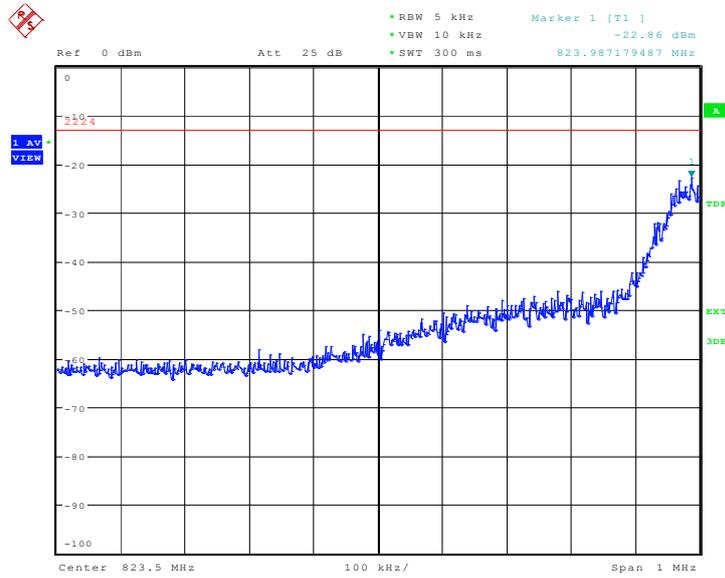
Date: 6.DEC.2010 06:45:38

HIGH BAND EDGE BLOCK-C (GSM850) -Channel 251



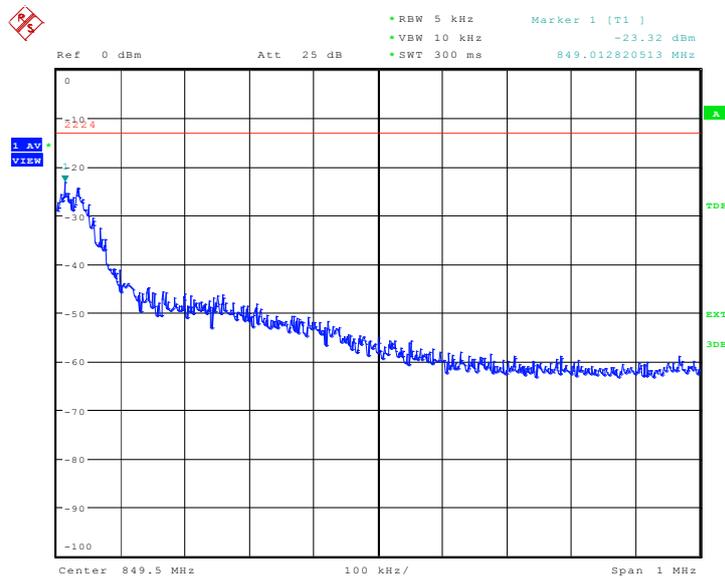
Date: 6.DEC.2010 06:46:07

EGPRS 850
LOW BAND EDGE BLOCK-A (GSM850)-Channel 128



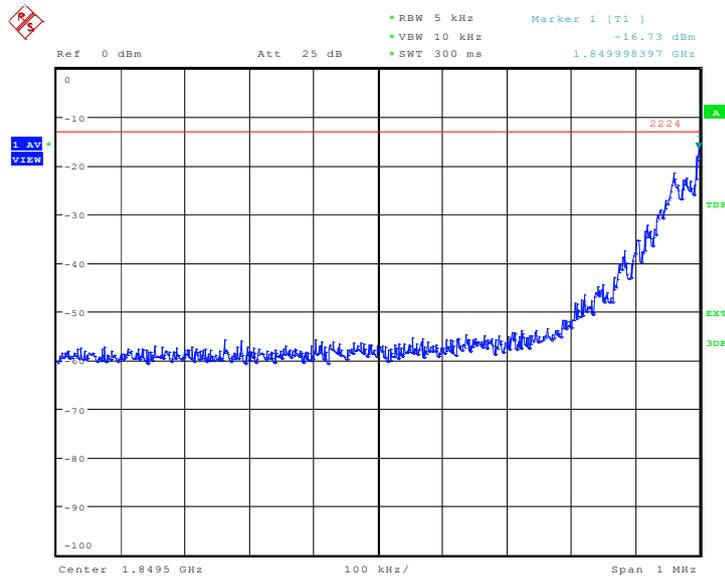
Date: 6.DEC.2010 22:49:54

HIGH BAND EDGE BLOCK-C (GSM850) -Channel 251



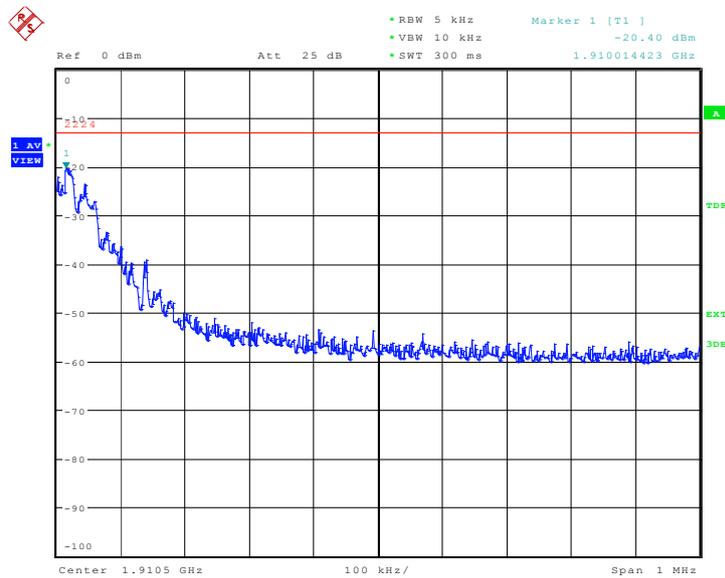
Date: 6.DEC.2010 22:50:23

PCS 1900
LOW BAND EDGE BLOCK-A (PCS-1900)-Channel 512



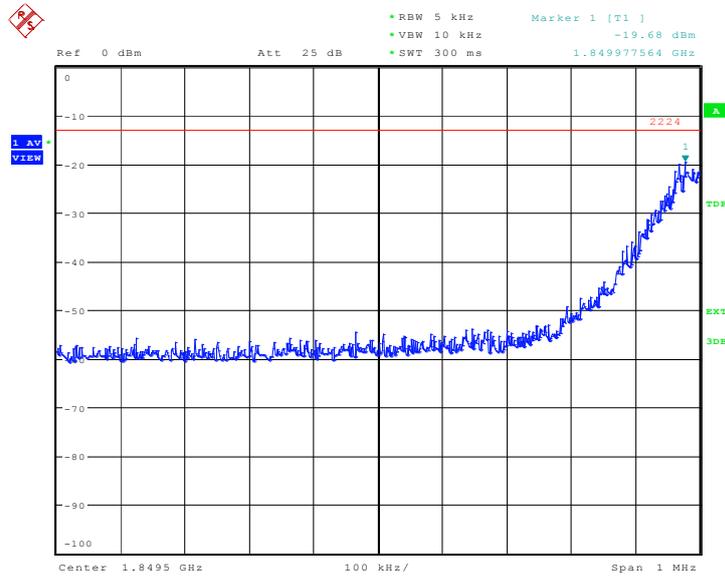
Date: 6.DEC.2010 22:57:00

HIGH BAND EDGE BLOCK-C (PCS-1900) -Channel 810



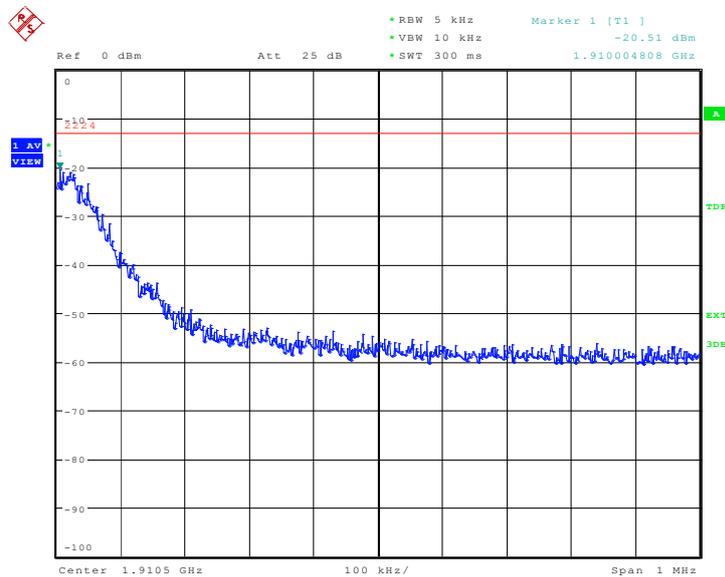
Date: 6.DEC.2010 22:57:30

GPRS 1900
LOW BAND EDGE BLOCK-A (PCS-1900)-Channel 512



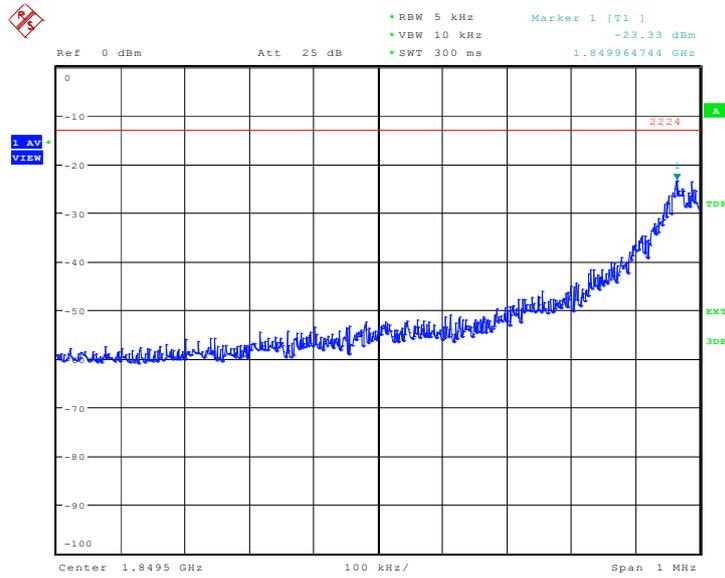
Date: 6.DEC.2010 23:06:51

HIGH BAND EDGE BLOCK-C (PCS-1900) -Channel 810



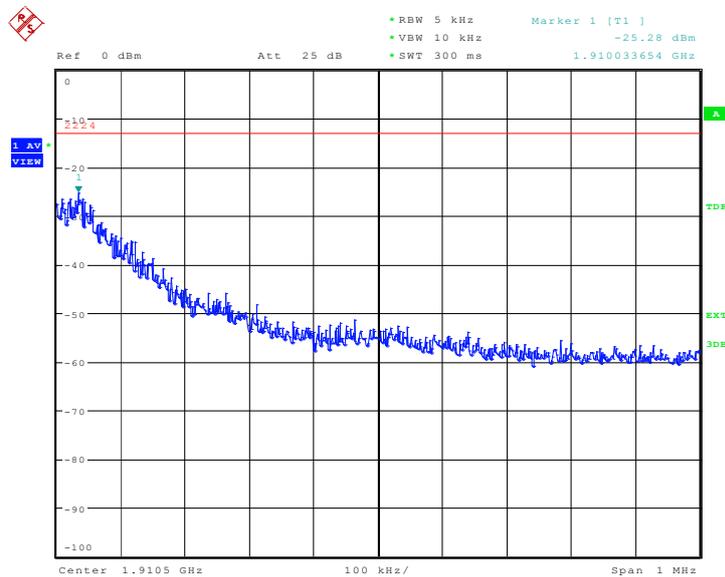
Date: 6.DEC.2010 23:07:20

EGPRS 1900
LOW BAND EDGE BLOCK-A (PCS-1900)-Channel 512



Date: 6.DEC.2010 23:42:54

HIGH BAND EDGE BLOCK-C (PCS-1900) -Channel 810



Date: 6.DEC.2010 23:43:23

A.8 CONDUCTED SPURIOUS EMISSION (§2.1057/§22.917/§24.238)

A.8.1 Measurement Method

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the equipment of PCS1900 band, this equates to a frequency range of 30 MHz to 19.1 GHz, data taken from 30 MHz to 20 GHz. For GSM850, data taken from 30 MHz to 9 GHz.
2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.

GSM850 Transmitter

Channel	Frequency (MHz)
128	824.2
190	836.6
251	848.8

PCS1900 Transmitter

Channel	Frequency (MHz)
512	1850.2
661	1880.0
810	1909.8

A. 8.2 Measurement Limit

Sec. 24.238 Emission Limits.

(a) On any frequency outside frequency band of the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least $43+10\log(P)$ dB. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm.

A. 8.3 Measurement result
GSM850

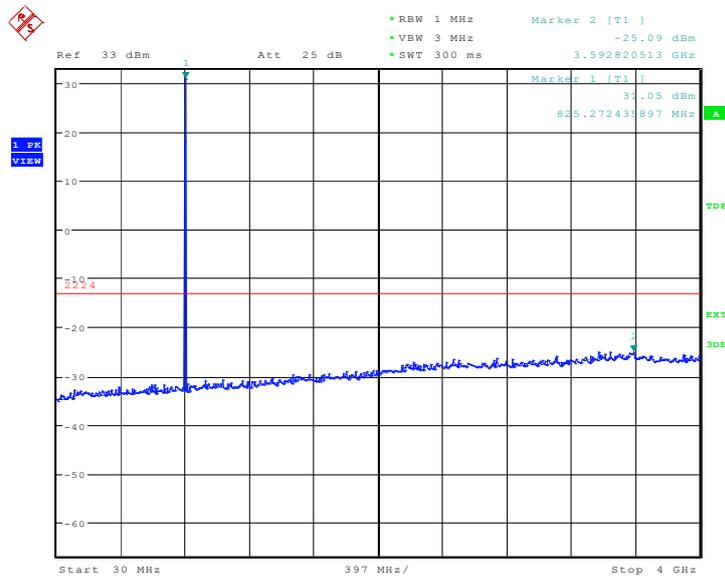
Harmonic	Tx ch. 128 Freq. (MHz)	Level (dBm)	Tx ch. 190 Freq. (MHz)	Level (dBm)	Tx ch. Freq. (MHz) 251	Level (dBm)
2	1648.4	nf	1673.2	nf	1697.6	nf
3	2472.6	nf	2509.8	nf	2546.4	nf
4	3296.8	nf	3346.4	nf	3395.2	nf
5	4121	nf	4183	nf	4244	nf
6	4945.2	nf	5019.6	nf	5092.8	nf
7	5769.4	nf	5856.2	nf	5941.6	nf
8	6593.6	nf	6692.8	nf	6790.4	nf
9	7417.8	nf	7529.4	nf	7639.2	nf
10	8242	nf	8366	nf	8488	nf

nf: Noise floor

A.8.3.1 Channel 128: 30MHz – 4GHz

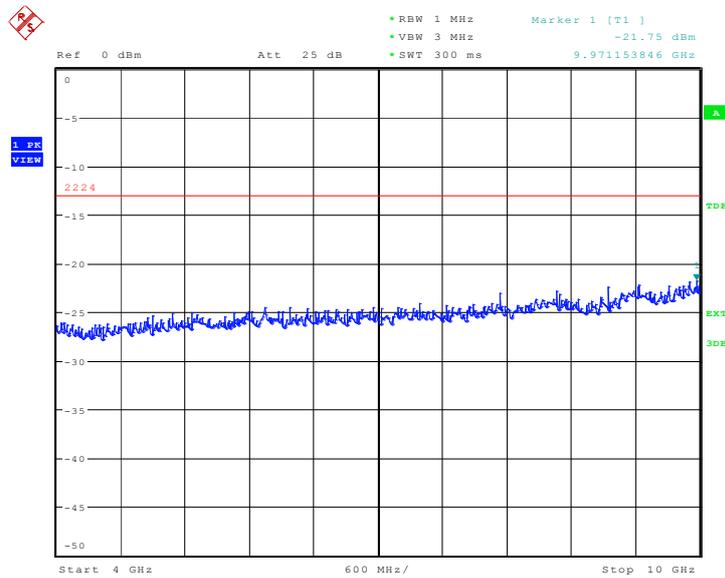
Spurious emission limit –13dBm.

NOTE: peak above the limit line is the carrier frequency.



Date: 6.DEC.2010 06:32:42

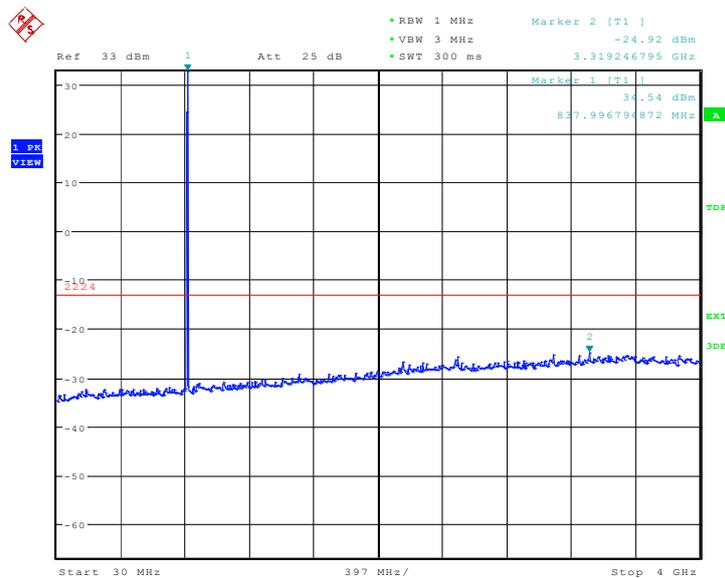
A.8.3.2 Channel 128: 4GHz – 10GHz
Spurious emission limit –13dBm.



Date: 6.DEC.2010 06:33:10

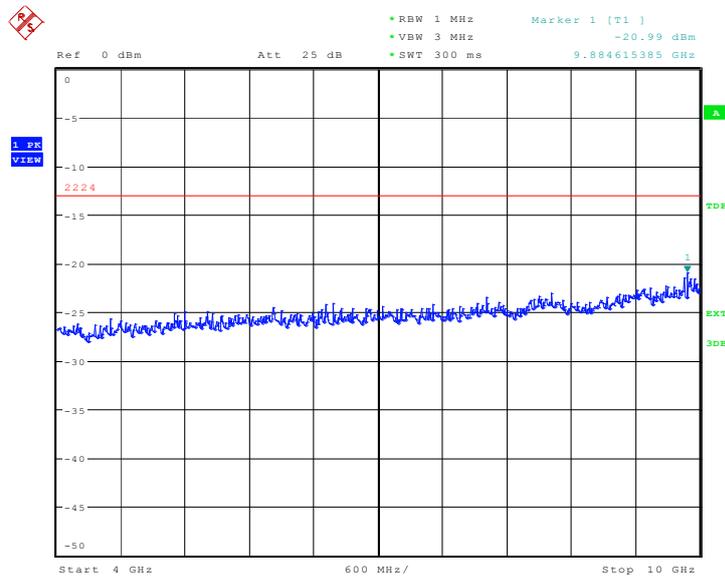
A.8.3.3 Channel 190: 30MHz – 4GHz
Spurious emission limit –13dBm

NOTE: peak above the limit line is the carrier frequency.



Date: 6.DEC.2010 06:33:39

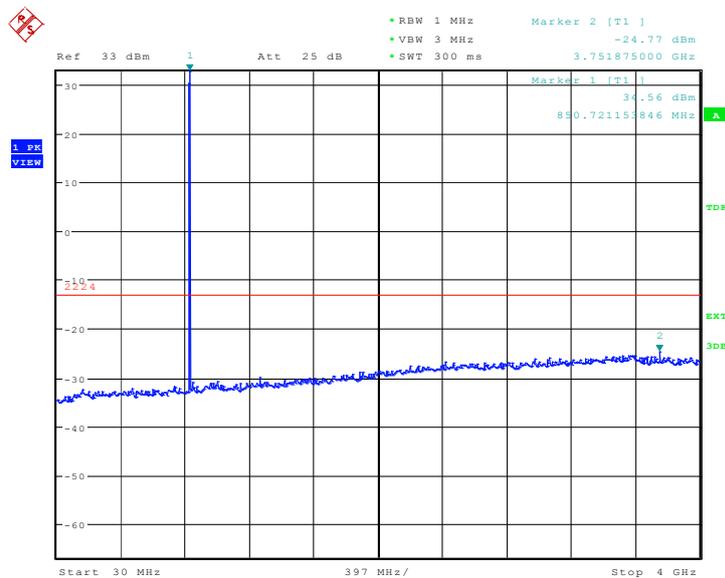
A.8.3.4 Channel 190: 4GHz –10GHz
Spurious emission limit –13dBm



Date: 6.DEC.2010 06:34:07

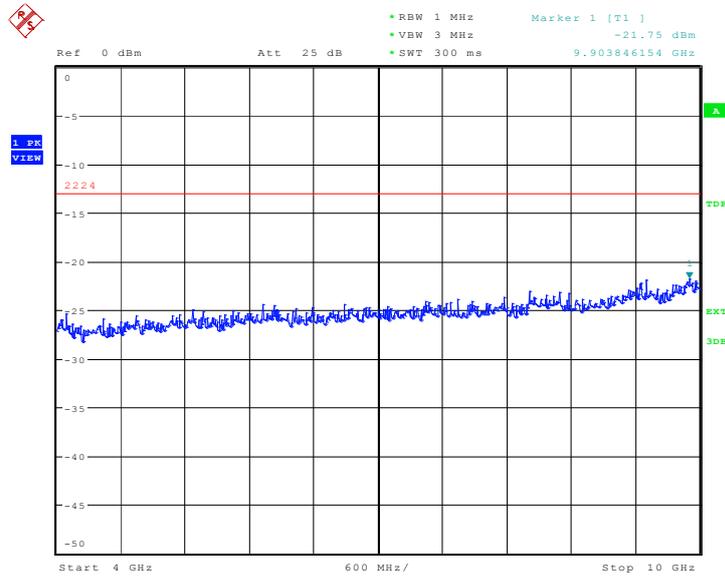
A.8.3.5 Channel 251: 30MHz – 4GHz
Spurious emission limit –13dBm.

NOTE: peak above the limit line is the carrier frequency.



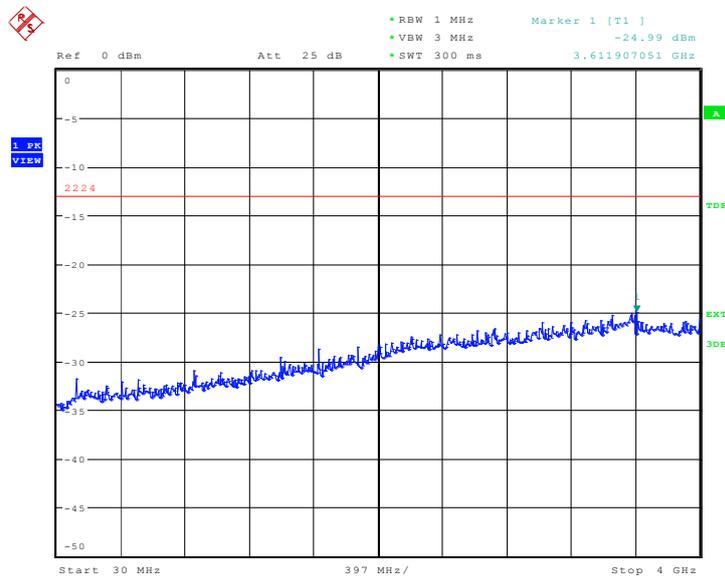
Date: 6.DEC.2010 06:34:36

A.8.3.6 Channel 251: 4GHz – 10GHz
Spurious emission limit –13dBm.



Date: 6.DEC.2010 06:35:04

A.8.3.7 Idle mode: 30MHz – 4GHz
Spurious emission limit –13dBm.



Date: 6.DEC.2010 06:35:33

PCS1900

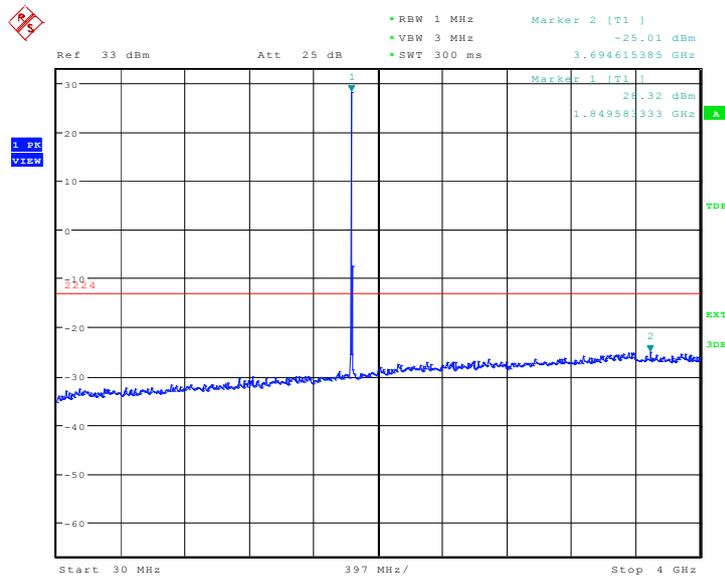
Harmonic	Tx ch. 512 Freq. (MHz)	Level (dBm)	Tx ch. 661 Freq. (MHz)	Level (dBm)	Tx ch. 810 Freq. (MHz)	Level (dBm)
2	3700.4	nf	3760	nf	3819.6	nf
3	5550.6	nf	5640	nf	5729.4	nf
4	7400.8	nf	7520	nf	7639.2	nf
5	9251.0	nf	9400	nf	9549.0	nf
6	11101.2	nf	11280	nf	11458.8	nf
7	12951.4	nf	13160	nf	13368.6	nf
8	14801.6	nf	15040	nf	15278.4	nf
9	16651.8	nf	16920	nf	17188.2	nf
10	18502.0	nf	18800	nf	19098.0	nf

nf: Noise floor

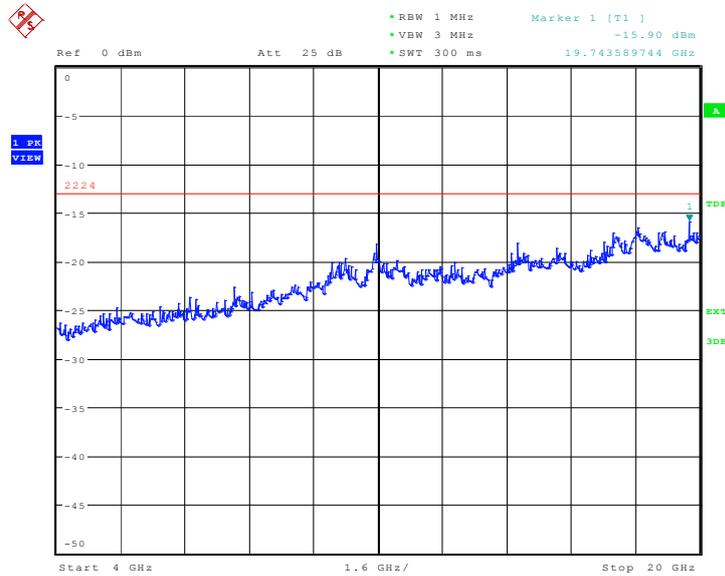
A. 8.3.9 Channel 512: 30MHz – 4GHz

Spurious emission limit –13dBm.

NOTE: peak above the limit line is the carrier frequency.



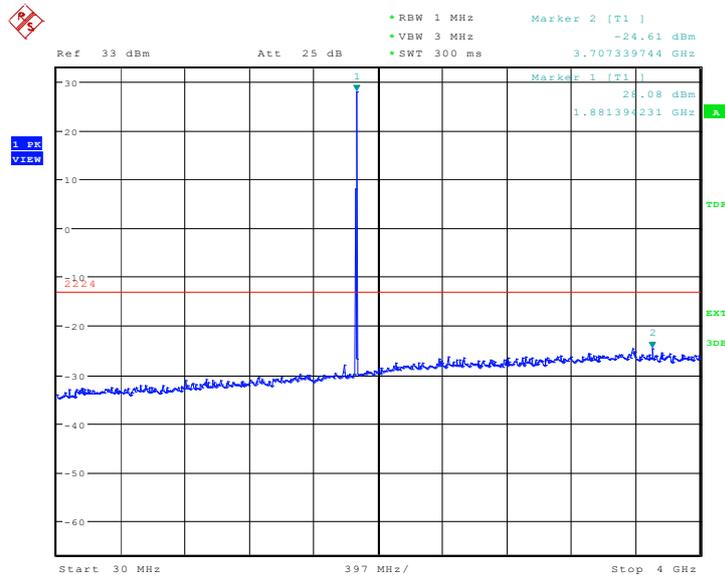
A. 8.3.10 Channel 512: 4GHz – 20GHz
Spurious emission limit –13dBm.



Date: 6.DEC.2010 22:58:27

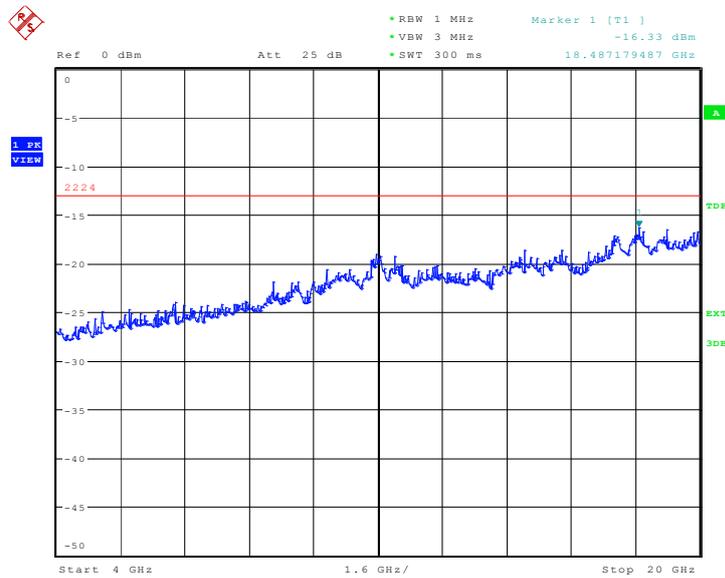
A. 8.3.11 Channel 661: 30MHz – 4GHz
Spurious emission limit –13dBm

NOTE: peak above the limit line is the carrier frequency.



Date: 6.DEC.2010 22:58:57

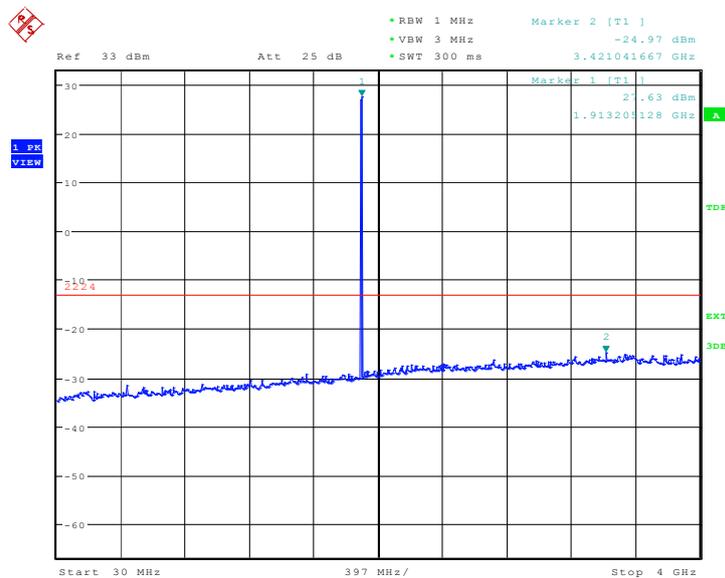
A. 8.3.12 Channel 661: 4GHz –20GHz
Spurious emission limit –13dBm



Date: 6.DEC.2010 22:59:25

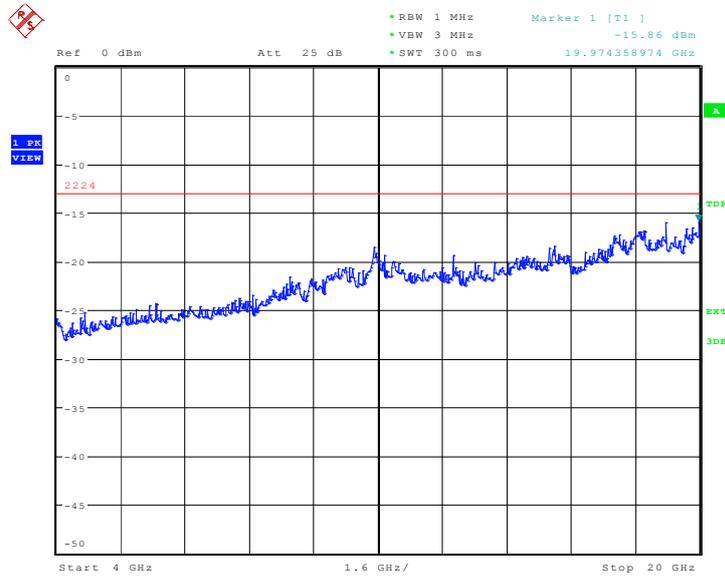
A. 8.3.13 Channel 810: 30MHz – 4GHz
Spurious emission limit –13dBm.

NOTE: peak above the limit line is the carrier frequency.



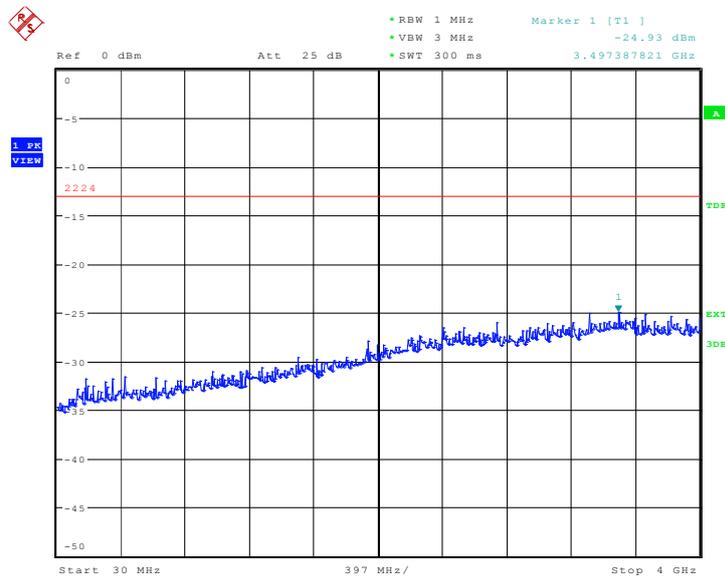
Date: 6.DEC.2010 22:59:54

A. 8.3.14 Channel 810: 4GHz – 20GHz
Spurious emission limit –13dBm.



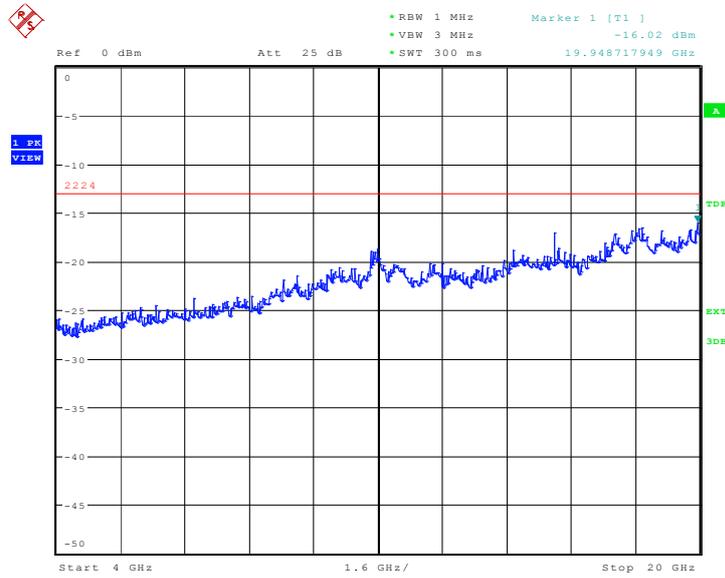
Date: 6.DEC.2010 23:00:23

A. 8.3.15 Idle mode: 30MHz – 4GHz
Spurious emission limit –13dBm.



Date: 6.DEC.2010 23:00:52

A. 8.3.16 Idle mode: 4GHz – 20GHz
Spurious emission limit -13dBm.



Date: 6.DEC.2010 23:01:20

END OF REPORT