ECL-EMC Test Report No.: 10-207

Equipment under test: **ION-M 80-85HP/19P (850MHz Path)**
FCC ID: **XS5-ION-M8085HP**
IC ID: **IC:2237E-IONM8085HP:**

Type of test: **FCC 47 CFR Part 22 Subpart H:2009**
Cellular Radiotelephone Service
RSS-Gen:2007, RSS-131:2003
Zone Enhancers for the Land Mobile Service

Measurement Procedures: 47 CFR Parts 2:2009 (*Frequency Allocations and Radio Treaty Matters; General Rules and Regulations*), Part 22:2009 (Cellular Radiotelephone Service), ANSI/TIA-603-C:2004, *Land Mobile FM or PM Communications Equipment Measurement and Performance Standards*
IC-GEN:2007 General Requirements and Information for the Certification of Radio communication Equipment

Test result: **Passed**

Date of issue:	31.08.10			Signature:
Issue-No.:	01	Author:	**M. Lehmann** Test engineer	Digital unterschrieben von Juergen Kellner DN: cn=Juergen Kellner, o=TEMPTON Service Plus GmbH, ou=ECL, email=juergen.kellner@tempton.de, c=DE Datum: 2010.08.31 15:21:50 +02'00'
Date of delivery:	14.07.10	Checked:	**M. Grytz** Operational manager	Digital unterschrieben von Mario Lehmann DN: cn=Mario Lehmann, o=TEMPTON Service Plus GmbH, ou=ECL, email=mario.lehmann@tempton.de, c=DE Datum: 2010.08.31 14:37:28 +02'00'
Test dates:	14.07. – 05.08.10			
Pages:	30			

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Test Location: TEMPTON Service Plus GmbH
European Compliance Laboratory (ECL)

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Fax: +49 (0)911 59835 90

General:
The purpose of this report is to show compliance to the FCC regulations for unlicensed devices operating under section 22H of the Code of Federal Regulations title 47.
This report informs about the results of the EMC tests, it only refers to the equipment under test. No part of this report may be reproduced in any form, without written permission.

Table of contents

1 Test Results Summary

Name of Test	FCC Para. No.	IC Para. No.	FCC Method	FCC Spec.	Result
RF Power Output	22.913	RSS-Gen/ ANSI C63.4:	2.1046	500 Watts	Complies
Occupied Bandwidth		RSS-Gen/ ANSI C63.4	2.1049	Input/Output	Complies
Spurious Emissions at Antenna Terminals	22.917	RSS 131	2.1051	-13dBm	Complies
Field Strength of Spurious Emissions	22.917	RSS 131	2.1053	-13dBm E.I.R.P	Complies
Frequency Stability	n.a.	RSS 131	2.1055	Must stay in band	NA

Frequency stability is not applicable because the device uses a common oscillator to up convert and down convert the RF signal. The EUT does not contain modulation circuitry, or frequency generation, therefore the test was not performed.

2 Equipment under test (E.U.T.)

2.1 Description

Kind of equipment	ION M 80-85HP 19P Repeater
Andrew Indent. Number	7620304-0001
Serial no.(SN)	11
Revision	00
Software version and ID	V3.19.0.4; 7162793
Type of modulation and Designator	CDMA (F9W) ☒ W-CDMA (F9W) ☒
Frequency Translation	F1-F1 ☒ F1-F2 ☐ N/A ☐
Band Selection	Software ☐ Duplexer ☒ Full band ☐

2.1.1 Downlink

Pass band	869 MHz – 894 MHz
Maximum rated output power	46,0 dBm = 40 W
Gain	13 dB @ Pout BTS of 33 dBm

2.1.2 Uplink

Pass band	824 MHz – 849 MHz
Maximum rated output power	n. a.
Gain	n. a.

Note: The EUT does not transmit over the air in the uplink direction.

2.1.3 Description of EUT

Andrew ION-M80-85HP/19P is a multi-band, multi-operator remote unit with various extension units. It is used in conjunction with a master unit in the ION optical distribution system.

This Test Report describes only the approval of the 850 MHz Path (ION-M85HP).
The ION-M8085HP19P Repeater consists of one 800/850 MHz remonte unit and one 1900 MHz extension unit, with the intended use of simultaneous transmission

2.1.4 System diagram of EUT

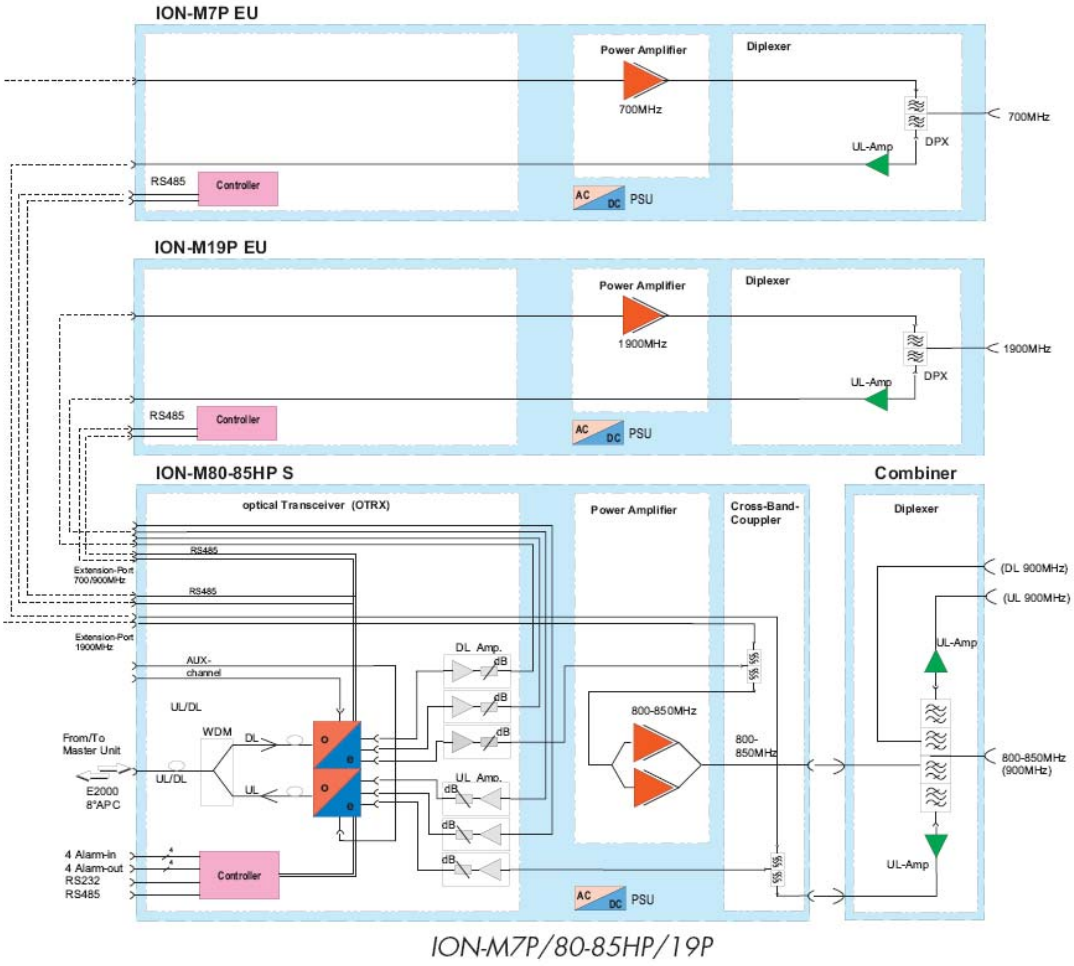


figure 2.1.4-#1 System diagram of EUT: ION optical distribution system

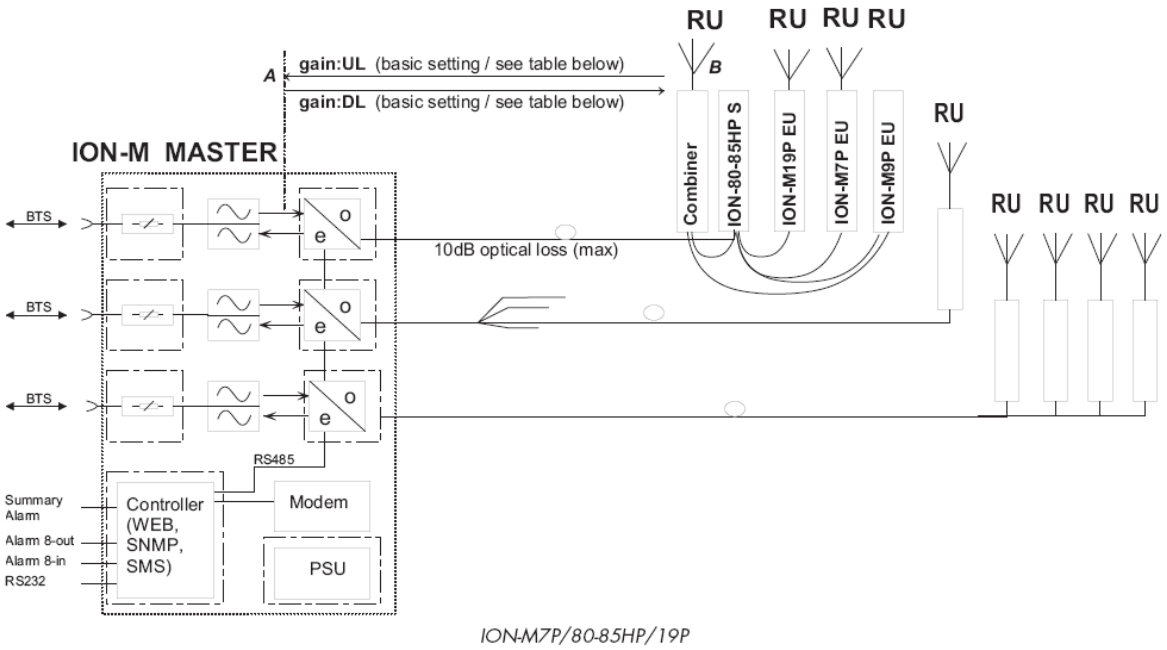


figure 2.1.4-#2 System diagram of EUT: ION-M

2.1.5 Block diagram of measurement reference points

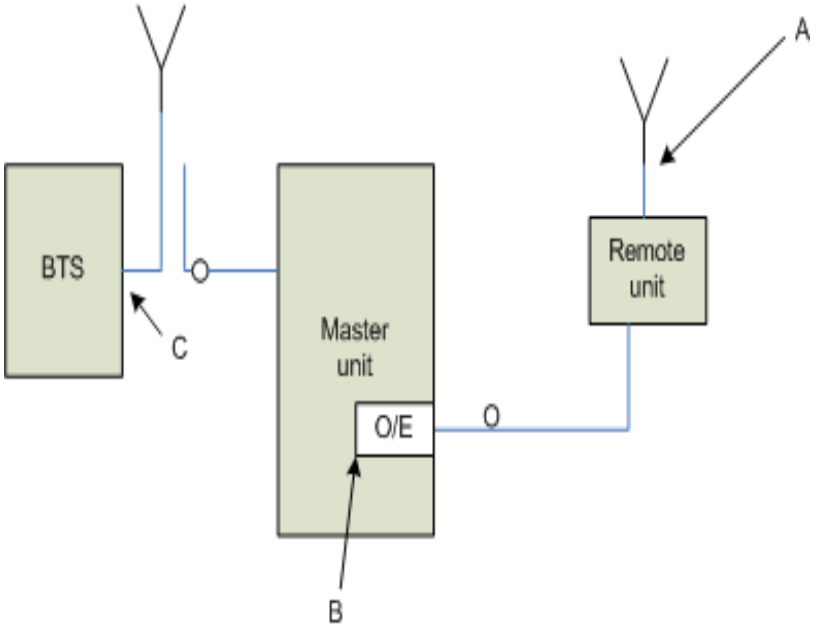


figure 2.1.5-#1 Block diagram of measurement reference points

Remote Unit is the EUT
O/E Opitcal/Electrical converter
SRMU SubRackMaster Unit

Reference point A, Remote Unit DL output, UL input
Reference point B, SRMU UL output, DL input
Reference point C, BTS DL output, UL input

3 Test site

3.1 Test environment

All tests were performed under the following environmental conditions:

Condition	Minimum value	Maximum value
Barometric pressure	86 kPa	106 kPa
Temperature	15°C	30°C
Relative Humidity	20 %	75 %
Power supply range	±5% of rated voltages	

3.2 Test equipment

ANDREW Inv. No.	Test equipment	Type	Manufacturer	Serial No.	Calibration
8961	Spectrum Analyzer	FSP13	R&S	837747/023	10/10
8736	Signal Analyzer	FSIQ26	R&S	100290	12/10
8984	Signal Generator	E4438C	Agilent	MY45094089	11/10
8998	Signal Generator	SMIQ06B	R&S	100874	09/10
8689	Power Meter	E4418B	Agilent	GB40203847	08/10
8670	Power Sensor	E9300H	Agilent	MY41090174	08/10
7119	Divider	2way	Mikom	3512	CIU
7323	Circulator	E10-1FFF	AEROTEK	25357	CIU
7315	Circulator	E10-1FFF	AEROTEK	25344	CIU
7363	RF-Cable	2,0m; N-N	Huber & Suhner	28439/4PEA	CIU
7295	RF-Cable	2,5m; N-N	Huber & Suhner	28964/4PEA	CIU
7299	RF-Cable	2,5m; N-N	Huber & Suhner	28964/4PEA	CIU
7364	RF-Cable	1,0m; SMA	Huber & Suhner	36309/4P	CIU
7365	RF-Cable	1,0m; SMA	Huber & Suhner	36292/4P	CIU
7366	RF-Cable	2,0m; SMA	Huber & Suhner	36183/4P	CIU
7367	RF-Cable	2,0m; SMA	Huber & Suhner	36158/4P	CIU
7373	RF-Cable	Multiflex141 0,6m	Andrew	---	CIU
7374	RF-Cable	Multiflex141 0,6m	Andrew	---	CIU

CIU = Calibrate in use

3.3 Input and output losses

All recorded power levels should be referenced to the input and output connectors of the repeater, unless explicitly stated otherwise.
The test equipment used in this test has to be calibrated, so that the functionality is also checked.
All cables, attenuators, splitter, isolator, circulator and combiner etc. must be measured before testing and used for compensation during testing.

3.4 Measurement uncertainty

The extended measurement uncertainty corresponds to the measurement results from the standard measurement uncertainty multiplied by the coverage factor k=2. The true value is located in the corresponding interval with a probability of 95 %.

4 Test site (TEMPTON Service Plus GmbH)

Test Site:
FCC Test Site No.: 96997
IC OATS No.: IC3475A-1

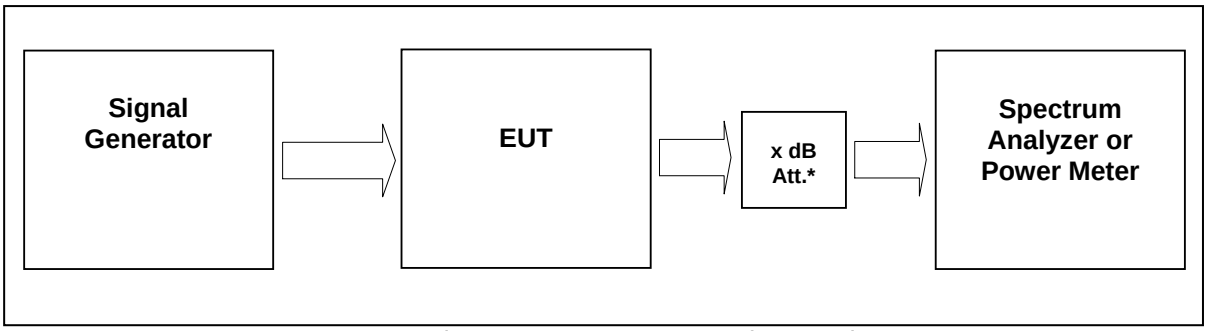
4.1 Test environment

All tests were performed under the following environmental conditions:

Condition	Minimum value	Maximum value
Barometric pressure	86 kPa	106 kPa
Temperature	15°C	30°C
Relative Humidity	20 %	75 %
Power supply range	±5% of rated voltages	

Measurements see section 8.

5 RF Power Out: §22.913, §2.1046



External Attenuator DL x dB = 30 dB
figure 4.1-#1 Test setup: RF Power Out: §22.913, §2.1046

Measurement uncertainty	± 0,38 dB
Test equipment used	8984,8961,8689,8670,7363,7364,7365

5.1 Limit

Minimum standard:
Para. No.22.913
The effective radiated power (ERP) of transmitters in the Cellular Radiotelephone Service must not exceed the limits in this section.
(a) *Maximum ERP.* In general, the effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 500 Watts. However, for those systems operating in areas more than 72 km (45 miles) from international borders that:

(1) Are located in counties with population densities of 100 persons or fewer per square mile, based upon the most recently available population statistics from the Bureau of the Census; or,

(2) Extend coverage on a secondarybasis into cellular unserved areas, as those areas are defined in § 22.949, the ERP of base transmitters and cellular repeaters of such systems must not exceed 1000 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

5.2 Test method

§ 2.1046 Measurements required: RF power output.
(a) For transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in § 2.1033(c)(8). The electrical characteristics of the radio frequency load attached to the output terminals when this test is made shall be stated.

(c) For measurements conducted pursuant to paragraphs (a) and (b) of this section, all calculations and methods used by the applicant for determining carrier power or peak envelope power, as appropriate, on the basis of measured power in the radio frequency load attached to the transmitter output terminals shall be shown. Under the test conditions specified, no components of the emission spectrum shall exceed the limits specified in the applicable rule parts as necessary for meeting occupied bandwidth or emission limitations

5.3 Test results

Detector RMS.

Test signal CDMA
Signal waveform according to table 6.2-1 of standard specification 3GPP2 C.p0051-0 v1.0 16.February 2006 pilot, sync, paging, 37 traffics, which is equal to the table 6.5.2.1 of 3GPP2 C.S0010-C v2.0 24.February 2006.

Test signal WCDMA
Signal waveform according to Test Model 1 of standard specification 3GPP TS25.141. Signal modulated with a combination of PCCPCH, SCCPCH and Dedicated Physical Channels specified as test model 1 64 DPCH.

5.3.1 Downlink

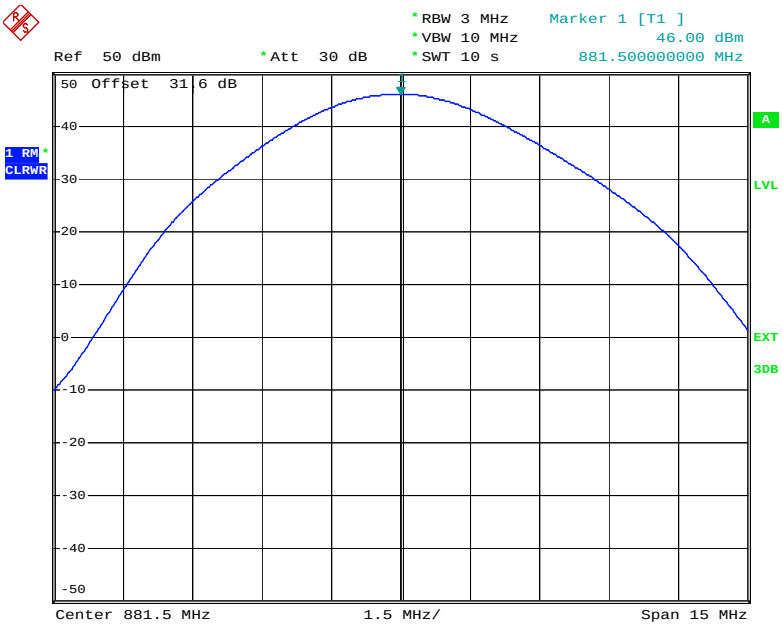
Modu-lation	RBW VBW Span	Measured at f / (MHz)		Power (dBm)	RF Power (W)	Plot -
CDMA	3 MHz 10 MHz 15 MHz					4.3.3.3
		Middle	881,5	46,0	40	#1
WCDMA	10 MHz 10 MHz 50 MHz					4.3.3.4
		Middle	881,5	46,0	40	#1
Maximum output power = 46,0 dBm = 46 W						
Limit Maximum output power = 57 dBm = 500 W						

table 5.3.1-#1 RF Power Out: §22.913, §2.1046; Test results; Downlink

Modulation	Pin / dBm (Ref. point B)
CDMA	6
WCDMA	5,9

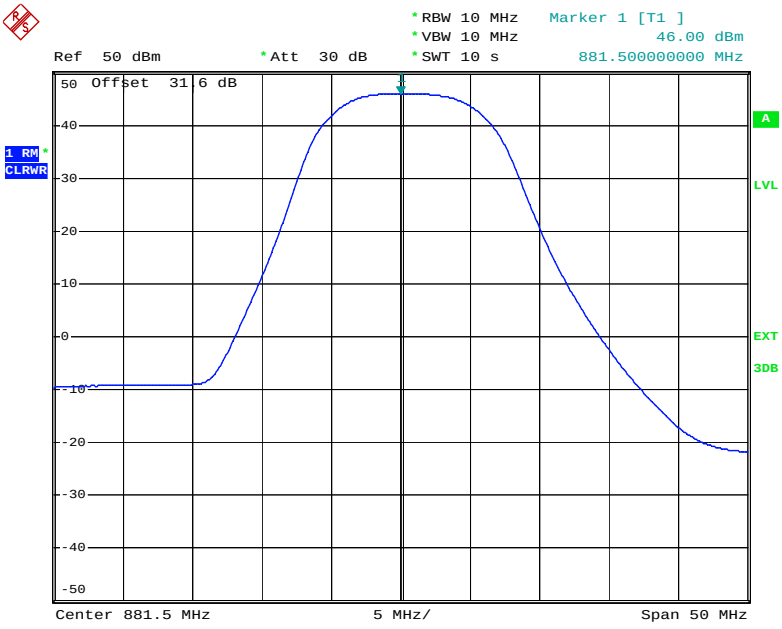
table 5.3.1-#2 RF Power Out: §22.913, §2.1046; Test results; Downlink; Input power

5.3.1.1 CDMA



plot 5.3.1.1-#1 RF Power Out: §22.913, §2.1046; Test results; Downlink; CDMA Middle

5.3.1.2 W-CDMA



plot 5.3.1.2-#1 RF Power Out: §22.913, §2.1046; Test results; Downlink; W-CDMA Middle

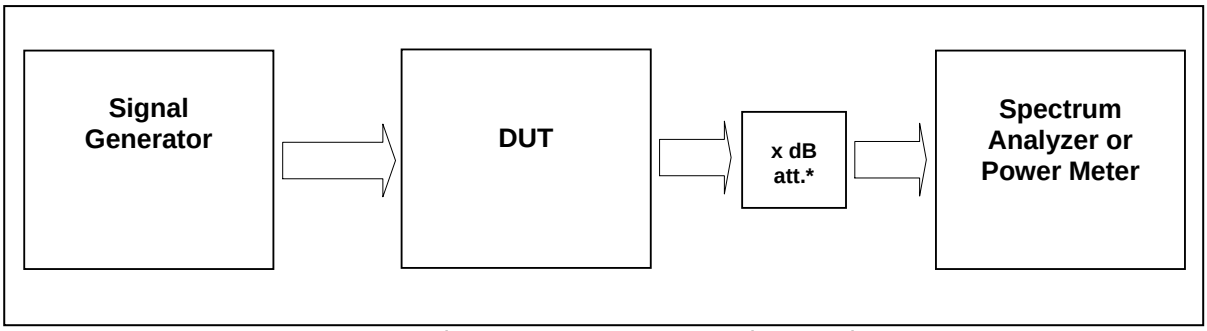
5.3.2 Uplink

n.a.
Note: The EUT does not transmit over the air in the uplink direction.

5.4 Summary test result

Test result	complies, according the plots above
Tested by:	Rainer Friedrichr
Date:	16.07.2010

6 Occupied Bandwidth: §2.1049; RSS-GEN



External Attenuator DL x dB = 30 dB
figure 5.4-#1 Test setup: Occupied Bandwidth: §2.1049; RSS-GEN

Measurement uncertainty	± 0,38 dB
Test equipment used	8984,8961,8689,8670,7363,7364,7365

6.1 Limit

The spectral shape of the output should look similar to input for all modulations.

6.2 Test method

Para. No.2.1049
The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured under the following conditions as applicable:

6.3 Test results

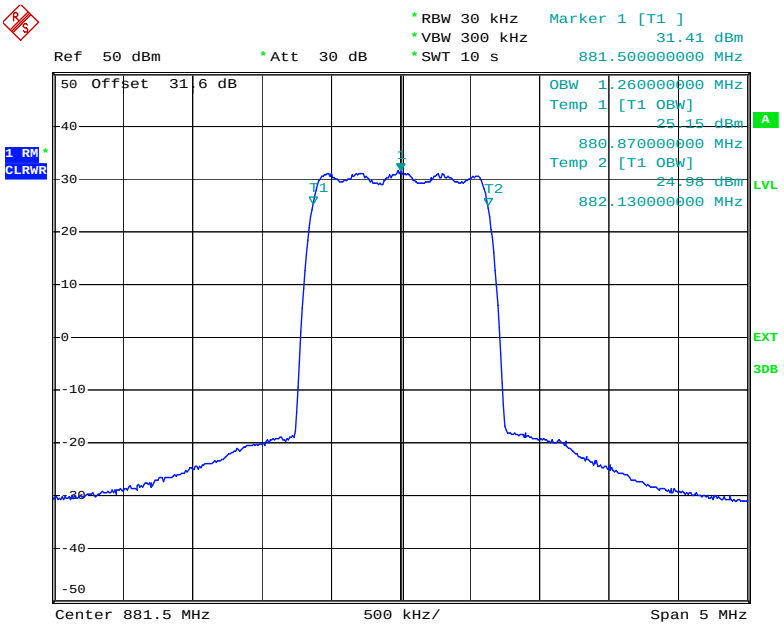
For composite power measurements: Detector RMS.

6.3.1 Downlink

Modu-lation	Measured at	f / MHz	RBW VBW Span	Occupied Bandwidth / MHz	Plot #
CDMA	Middle	881,5	30kHz 300kHz 5 MHz	1,260	5.3.1.3 #1, #2
WCDMA	Middle	881,5	100kHz 1 MHz 10 MHz	4,18	5.3.1.4 #1, #2

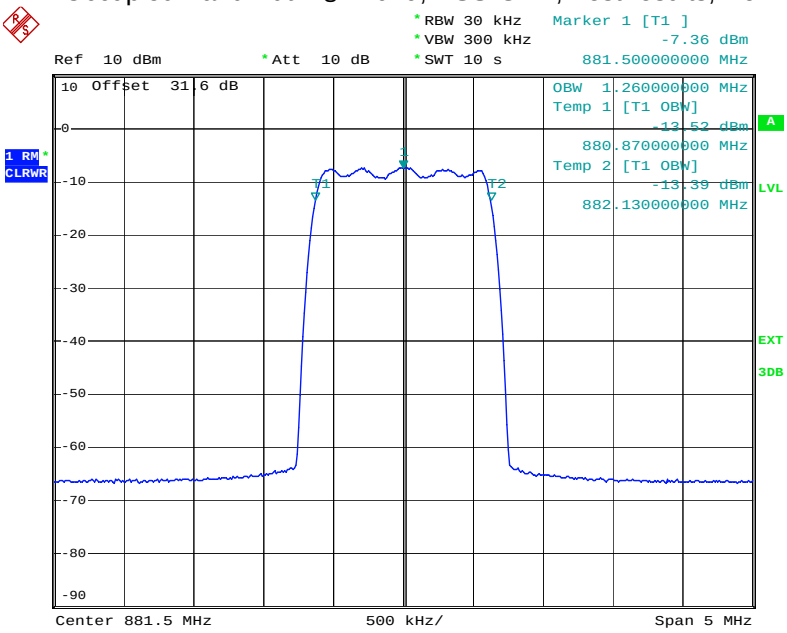
table 6.3-#1 Occupied Bandwidth: §2.1049; RSS-GEN Test results

6.3.1.1 CDMA



Date: 16.JUL.2010 12:50:04

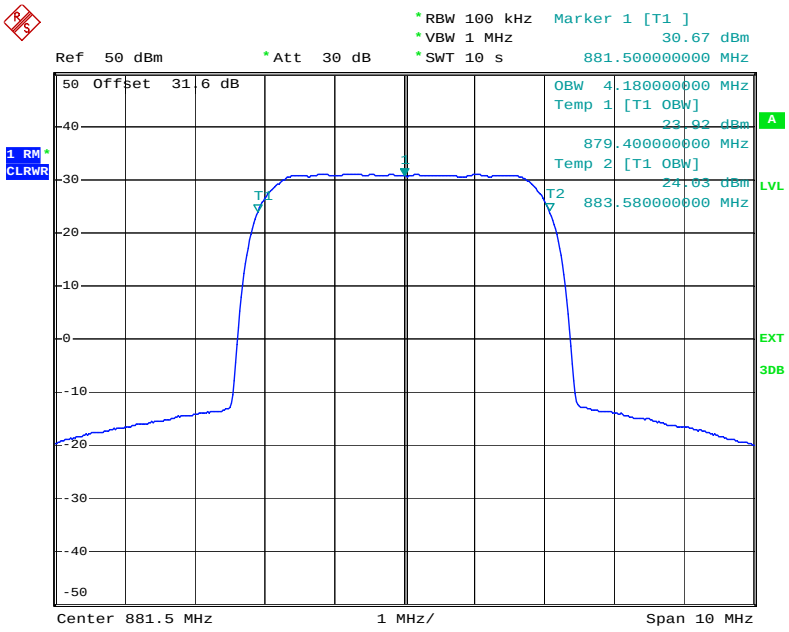
plot 6.3.1.1-#1 Occupied Bandwidth: §2.1049; RSS-GEN; Test results; Downlink; CDMA Output



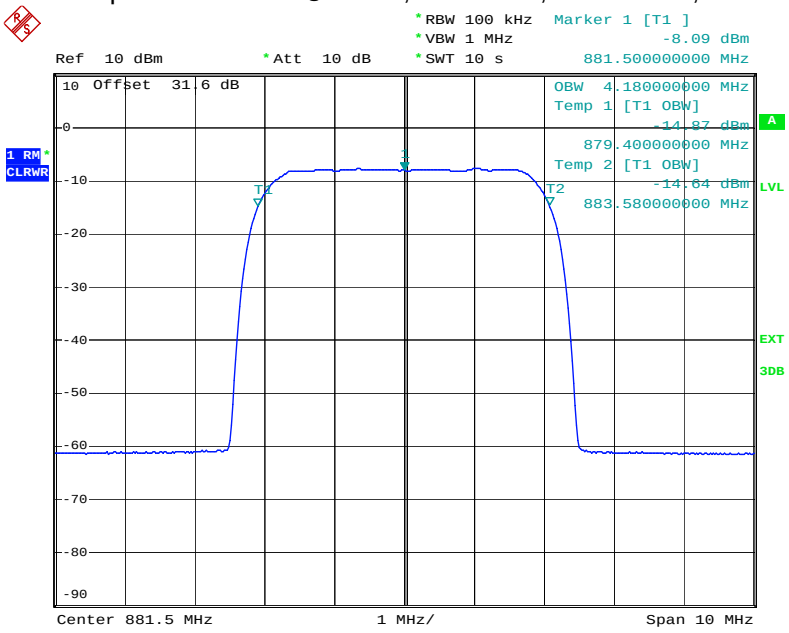
Date: 16.JUL.2010 12:24:51

plot 6.3.1.1-#2 Occupied Bandwidth: §2.1049; RSS-GEN; Test results; Downlink; CDMA Input

6.3.1.2 W-CDMA



plot 6.3.1.2-#1 Occupied Bandwidth: §2.1049; RSS-GEN; Test results; Downlink; W-CDMA Output



plot 6.3.1.2-#2 Occupied Bandwidth: §2.1049; RSS-GEN; Test results; Downlink; W-CDMA Input

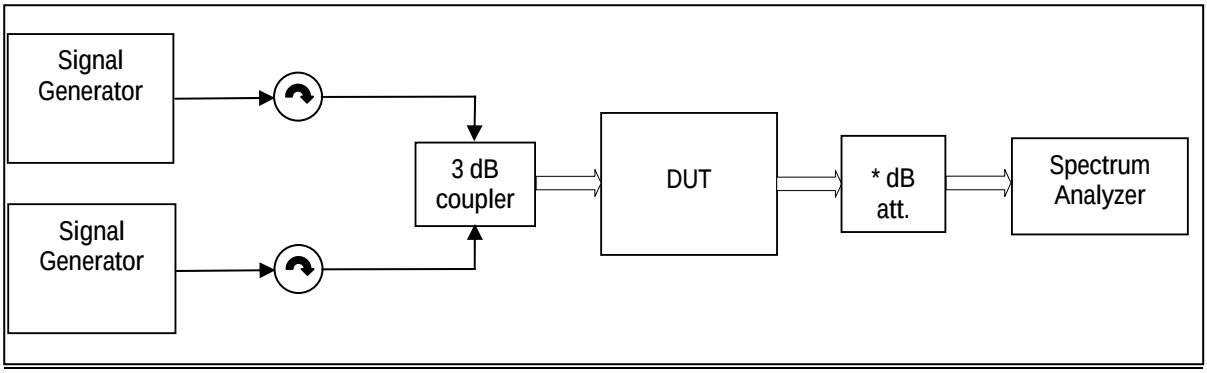
6.3.2 Uplink

n.a.
Note: The EUT does not transmit over the air in the uplink direction.

6.4 Summary test result

Test result	complies, according the plots above
Tested by:	Rainer Friedrich
Date:	16.07.2010

7 Spurious Emissions at Antenna Terminals: §22.917, §2.1051; RSS-131, RSS-GEN



External Attenuator DL x dB = 30 dB

figure 6.4-#1 Test setup: Spurious Emissions at Antenna Terminals: §22.917, §2.1051; RSS-131, RSS-GEN

Measurement uncertainty	± 0,54 dB ± 1,2 dB ± 1,5 dB	9 kHz to 3 GHz 3 GHz to 7 GHz 7 GHz to 26 GHz
Test equipment used	8984,8961,8689,8670,7363,7364;7323, 7315,7119;8998	

7.1 Limit

Minimum standard:
Para. No.22.917
(a) *Out of band emissions.* The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

(b) *Measurement procedure.* Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (*i.e.* 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

7.2 Test method

Para. No 2.1051 Measurements required: Spurious emissions at antenna terminals.
The radio frequency voltage or powers generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in § 2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified.
[39 FR 5919, Feb. 15, 1974. Redesignated andamended at 63 FR 36599, July 7, 1998]

7.3 Test results

7.3.1 Downlink

<1MHz from Band Edge

Detector: RMS.

Modulation	RBW VBW Span	Measured at f / MHz		Max. level (dBm)	Plot -
CDMA	30 kHz 300 kHz 6 MHz				6.3.3.1
		Lower Edge	869,76 870,99	-19,1	#1
		Upper Edge	891,99 893,22	-13,9	#2
WCDMA	100 kHz 1 MHz 15 MHz				6.3.3.2
		Lower Edge	871,4 876,4	-14,4	#1
		Upper Edge	886,6 891,6	-13,6	#2

table 7.3-#1 Spurious Emissions at Antenna Terminals: §22.917, §2.1051; RSS-131, RSS-GEN Test results; Downlink; <1MHz from Band Edge

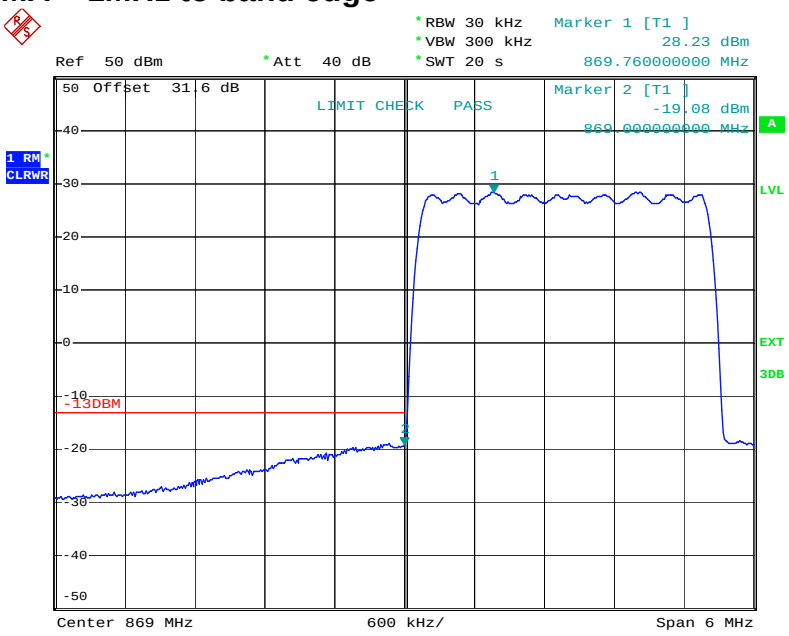
>1MHz from Band Edge

Detector: RMS.

Modulation	Measured at f / MHz		RBW VBW Span	Max. level (dBm)	Plot -
CDMA					6.3.3.3
	Middle	881,5	1 MHz 3 MHz 30 MHz – 9 GHz	-24,6	#1
WCDMA					6.3.3.4
	Middle	881,5	1 MHz 3 MHz 30 MHz – 9 GHz	-24,4	#1

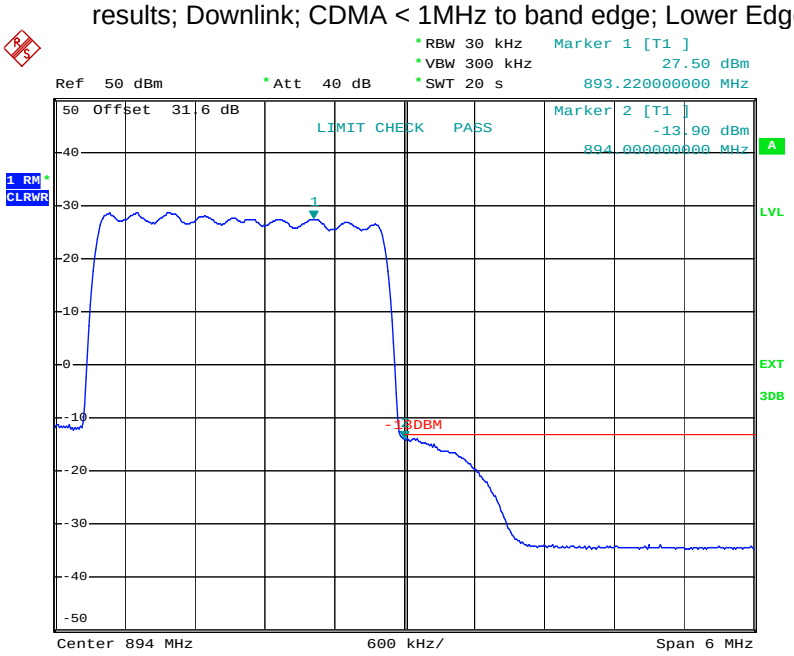
table 7.3-#2 Spurious Emissions at Antenna Terminals: §22.917, §2.1051; RSS-131, RSS-GEN Test results; Downlink;

7.3.1.1 CDMA < 1MHz to band edge



Date: 15.JUL.2010 16:28:59

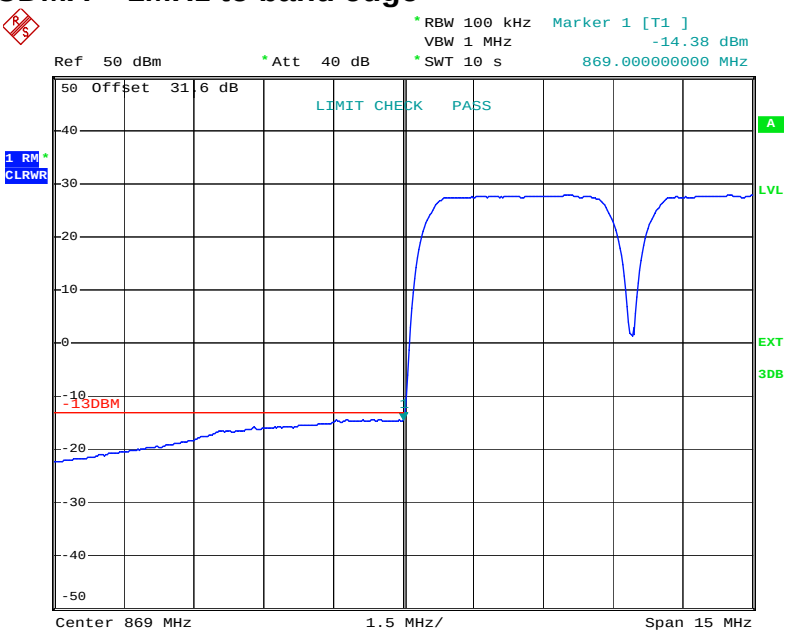
plot 7.3.1.1-#1 Spurious Emissions at Antenna Terminals: §22.917, §2.1051; RSS-131, RSS-GEN; Test results; Downlink; CDMA < 1MHz to band edge; Lower Edge



Date: 15.JUL.2010 16:25:26

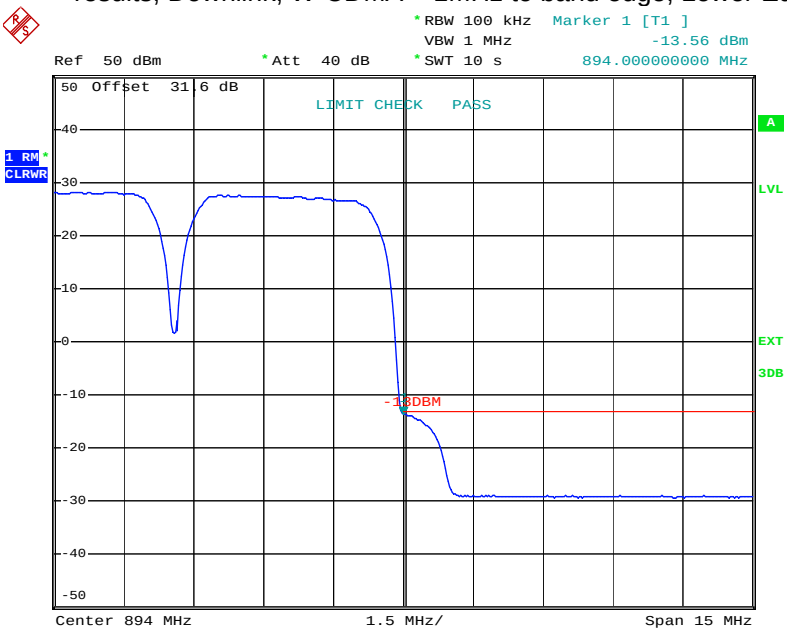
plot 7.3.1.1-#2 Spurious Emissions at Antenna Terminals: §22.917, §2.1051; RSS-131, RSS-GEN; Test results; Downlink; CDMA < 1MHz to band edge; Upper Edge

7.3.1.2 W-CDMA < 1MHz to band edge



Date: 16.JUL.2010 12:03:24

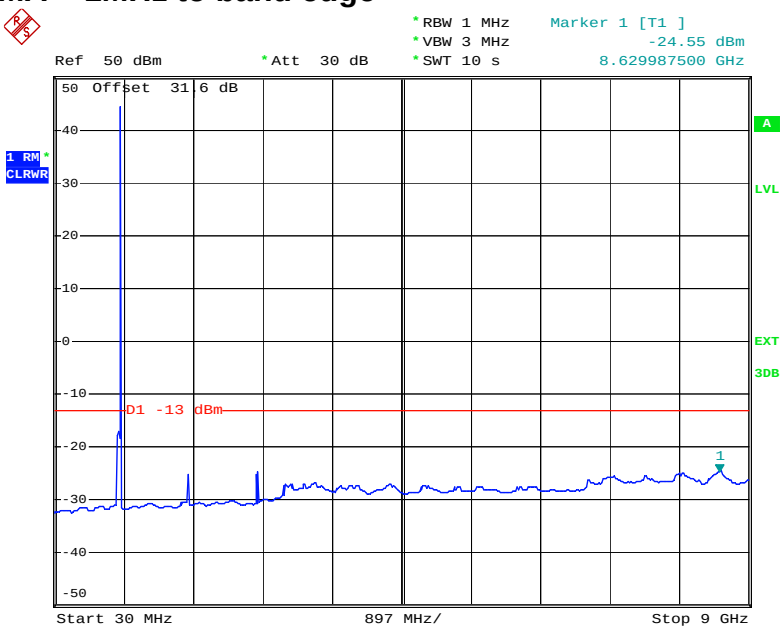
plot 7.3.1.2-#1 Spurious Emissions at Antenna Terminals: §22.917, §2.1051; RSS-131, RSS-GEN; Test results; Downlink; W-CDMA < 1MHz to band edge; Lower Edge



Date: 16.JUL.2010 12:06:13

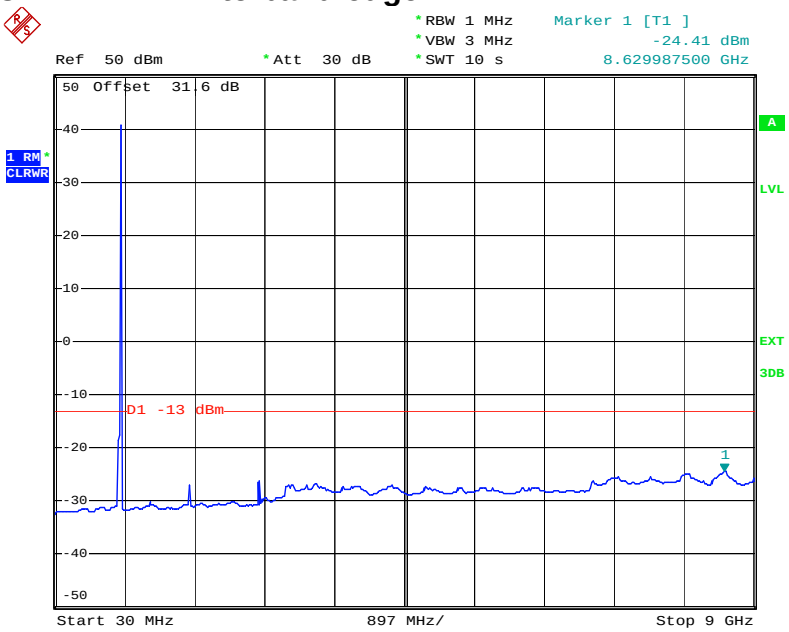
plot 7.3.1.2-#2 Spurious Emissions at Antenna Terminals: §22.917, §2.1051; RSS-131, RSS-GEN; Test results; Downlink; W-CDMA < 1MHz to band edge; Upper Edge

7.3.1.3 CDMA > 1MHz to band edge



plot 7.3.1.3-#1 Spurious Emissions at Antenna Terminals: §22.917, §2.1051; RSS-131, RSS-GEN; Test results; Downlink; CDMA > 1MHz to band edge; Middle

7.3.1.4 W-CDMA > 1MHz to band edge



plot 7.3.1.4-#1 Spurious Emissions at Antenna Terminals: §22.917, §2.1051; RSS-131, RSS-GEN; Test results; Downlink; W-CDMA > 1MHz to band edge; Middle

7.3.2 Uplink

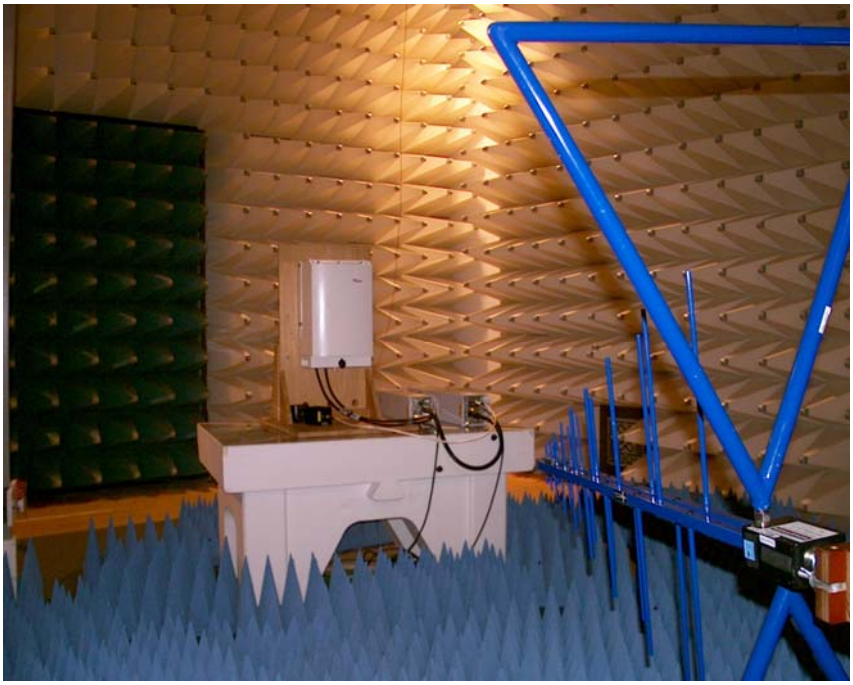
n.a.
Note: The EUT does not transmit over the air in the uplink direction.

7.4 Summary test result

Test result	complies, according the plots above
Tested by:	Rainer Friedrich
Date:	16.07.2010

8 Field Strength of Spurious Emissions: §22.917, §2.1053; RSS-131, RSS-GEN

picture 7.1: Test setup: Field Strength Emission >1 GHz @3m in the FAC



picture 7.2: Test setup: Field Strength Emission <1 GHz @3m in the FAC

This clause specifies requirements for the measurement of radiated emission.

Frequency range	Distance: EUT <-> antenna / location	Limit	Test method
30 MHz - 1 GHz	3 metres / FAC	FCC 47 CFR Part 22.917	TIA-603-C:2004
		IC RSS-131	
1 GHz – 9 GHz	3 metres / FAC	FCC 47 CFR Part 22.917	
		IC RSS-131	

Test equipment used:

Designation	Type	Manufacturer	Invent.-no.	Cal.-date	due Cal.-date	used
EMI test receiver	ESI40	Rohde & Schwarz	E1687	20.10.2009	20.10.2010	X
EMI test receiver	ESI40	Rohde & Schwarz	E1607	04.03.2009	04.03.2010	
Antenna	CBL 6111	Chase	K1149	14.09.2009	14.09.2010	X
Antenna	CBL 6111	Chase	K1026	14.09.2009	14.09.2010	
RF Cable		Frankonia	K1121 SET	28.12.2009	28.12.2010	X
Pre amplifier	AM1431	Miteq	K1721	27.04.2009	27.04.2010	
Antenna	HL 025	R&S	K809	04.02.2010	04.02.2011	X
Antenna	MWH-1826 / B	ARA Inc.	K1042	06.04.2009	06.04.2010	
Antenna	MWH-2640 / B	ARA Inc.	K1043	06.04.2009	06.04.2010	
Preamplifier	AFS4-00102000	Miteq	K817	11.11.2009	11.11.2010	X
Preamplifier	AFS4-00102000	Miteq	K838	06.10.2009	06.10.2010	
Preamplifier	JS43-1800-4000	Miteq	K1104	26.08.2010	26.08.2011	
RF Cable	Sucoflex 100	Suhner	K1742	09.04.20010	09.04.2011	X

The REMI Version 2.135 has been used to maximize radiated emission from the EUT in the frequency area up to 1 GHz. Above 1 GHz the REMI version 2.135 has been used for max search.

Test set-up:

Test location: FAC
Both, the Fully Anechoic Chamber (FAC) and the Semi Anechoic Chamber (SAC) fulfil the requirements of ANSI C63.4 and CISPR 16-1-4 with regards to NSA and SVSWR.

Type of EUT: Wall mounted

Measurement uncertainty:

Measurement uncertainty expanded (95% or K=2)	± 4,7 dB for ANSI C63.4 measurement ± 0,5 dB for TIA-603 measurement

8.1 Limit

§22.917 Emission limitations for cellular equipment / RSS-GEN sec. 4.9; RSS-131

(a)Out of band emissions.
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.
Limit = -13dBm

8.2 Test method

§22.917 Emission limitations for cellular equipment.

(b) Measurement procedure.
Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (*i.e.* 100 kHz or 1 percent of emission bandwidth, as specified).
The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

The antenna substitution method is used to determine the equivalent radiated power at spurious frequencies. The spurious emissions are measured at a distance of 3 meters. The EUT is then replaced with a reference substitution antenna with a known gain referenced to a dipole. This antenna is fed with a signal at the spurious frequency. The level of the signal is adjusted to repeat the previously measured level. The resulting erp is the signal level fed to the reference antenna corrected for gain referenced to a dipole (see Figure 7.2).

From KDB (AMPLIFIER, BOOSTER, AND REPEATER REMINDER SHEET):
Radiated spurs (enclosure) – Use of CW signal (low, mid. and high freq.) is acceptable rather than all modulations.

The maximum RFI field strength was determined during the measurement by rotating the turntable (±180 degrees) as like defined in ANSI C63.4.

Both, the Fully Anechoic Chamber (FAC) and the Semi Anechoic Chamber (SAC) fulfil the requirements of ANSI C63.4 and CISPR 16-1-4 with regards to NSA and SVSWR.

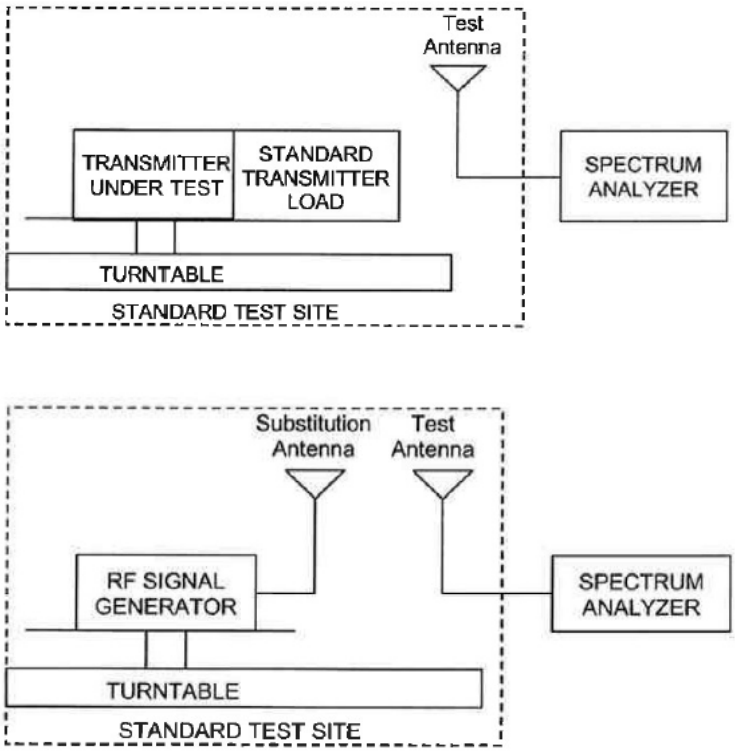
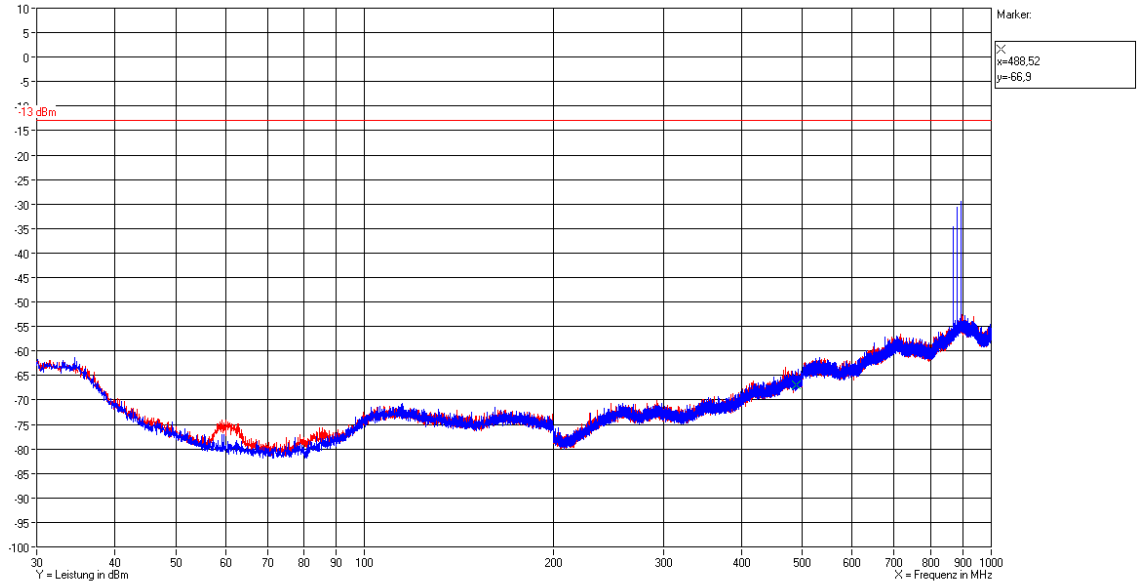


Figure #7.2 Substitution methods TIA-603-C

8.3 Test results

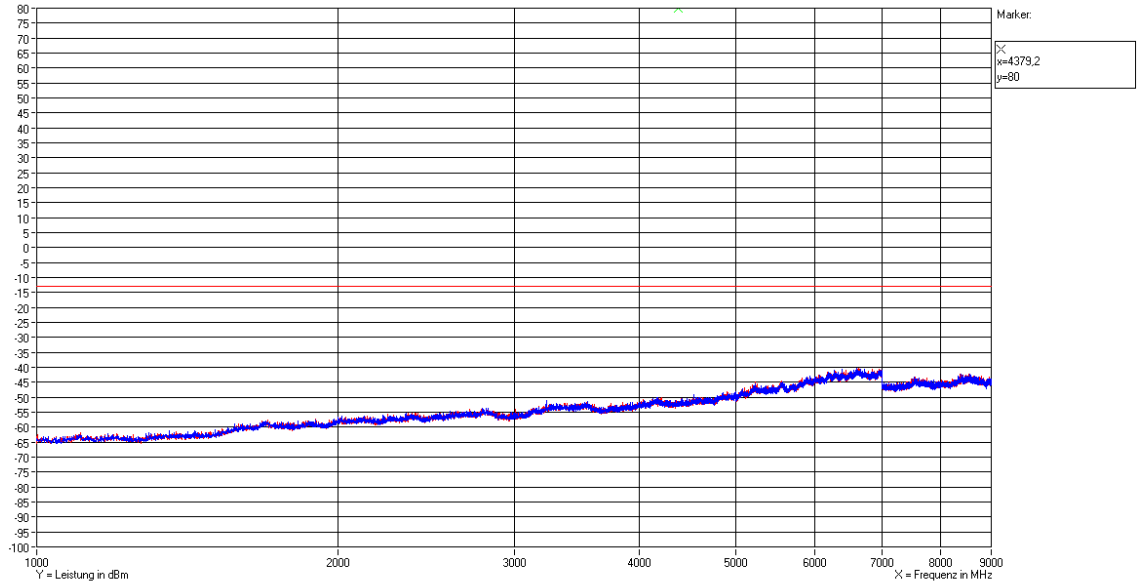
8.3.1 30 MHz to 1 GHz Downlink (Bottom – Middle – Top)

B/M/T: 869MHz – 881,5MHz – 894MHz
Polarisation: horizontal/vertical
Detector: Peak



8.3.2 1 GHz to 9 GHz Downlink (Bottom – Middle – Top)

B/M/T: 869MHz – 881,5MHz – 894MHz
Polarisation: horizontal/vertical
Detector: Peak



The EUT passed the limit

05.08.2010
Leh

9 History

Revision	Modification	Date	Name
V01.00	initial	31.08.2010	Lehmann

******** End of test report *******