

**Partial**

# **GSM TEST REPORT**

**No. 504/06T05**

**according to GCF-CC (V.3.23.1) R97/R98**

**for**

**Wavecom**

**GSM 850/900/1800/1900 Terminal Equipment**

**Type Q24 Plus HR codec**

**with**

**Final Hardware Version: 305**

**Final Software Version: Open AT® Firmware 6.57**

**This Test Report consists of 11 pages and the following Annexes:**

<b>Annex A – Accreditation Certificate</b>	<b>2 pages</b>
<b>Annex B – Test Equipment</b>	<b>12 pages</b>
<b>Annex C – PICS/PIXIT Information</b>	<b>22 pages</b>
<b>Annex D – Photographs</b>	<b>3 pages</b>
<b>Annex E – Detailed Test Results</b>	<b>8 pages</b>

**Date of Report: 2006-11-09**

**Date of Issue: 2006-11-10**

**CETECOM is accredited  
according to  
DIN EN ISO/IEC 17025 by:**



## **CETECOM SARL**

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Phone: +33 1 39 24 29 59 ♦ Fax: +33 1 39 24 29 83 ♦ E-mail: info@cetecom.fr ♦ http://www.cetecom.com  
Capital: 765000 Euro, SIRET: 400 345 559 00035 (Versailles), Code APE: 742C, N° VAT: FR 52 400 345 559, Registered in VERSAILLES, France  
Board of Directors: Dr. Harald Ansorge, Hans Peter May

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## 1. Test Results

### 1.1. Summary of Test Results

Tables 1a and 1b summarise the final test results of the tested GSM Terminal Equipment. Detailed results for each test case including the used/subcontracted testing location (according to sec. 2.2) are documented in Annex E of this Test Report.

An explanation of the terms used for each column in tables 1a and 1b is given on page 5.

**Table 1a: Summary of Test Results according to GCF-CC (V.3.23.1) R97/R98**

No.	Description	Test Sections of 3GPP TS 51.010-1 / 3GPP TS 51.010-4			Amount of Test Cases					
					GSM 900			GSM 1800		
		PASS	FAIL	INC	PASS	FAIL	INC	PASS	FAIL	INC
11	General Tests	0	0	0	0	0	0	0	0	0
12	Transceiver	0	0	0	0	0	0	0	0	0
13	Transmitter	0	0	0	0	0	0	0	0	0
14	Receiver	12	0	0	12	0	0	0	0	0
15	Timing advance and absolute delay	0	0	0	0	0	0	0	0	0
16	Reception time tracking speed	0	0	0	0	0	0	0	0	0
17	Access times during handover	0	0	0	0	0	0	0	0	0
18	Temporary reception gaps	0	0	0	0	0	0	0	0	0
19	Channel release after unrecoverable errors	0	0	0	0	0	0	0	0	0
20	Cell selection and reselection	2	0	0	2	0	0	0	0	0
21	Received signal measurements	2	0	0	2	0	0	0	0	0
22	Transmit power control timing and confirmation	0	0	0	0	0	0	0	0	0
25	Tests of layer 2 signalling functions	0	0	0	0	0	0	0	0	0
26	Testing of layer 3 functions	28	0	0	26	0	0	0	0	0
27	Testing SIM/ME interface	0	0	0	0	0	0	0	0	0
28	Test of autocalling restrictions	0	0	0	0	0	0	0	0	0
29	Testing of bearer services	0	0	0	0	0	0	0	0	0
30	Speech teleservices	0	0	0	0	0	0	0	0	0
31	Test of supplementary services	0	0	0	0	0	0	0	0	0
32	Testing of speech transcoding functions	2	0	0	2	0	0	0	0	0
33	Mobile station features	0	0	0	0	0	0	0	0	0
34	Short message service (SMS)	0	0	0	0	0	0	0	0	0
41	GPRS Paging, TBF establishment/release and DCCH related procedures	0	0	0	0	0	0	0	0	0
42	Test of Medium Access Control (MAC) protocol	0	0	0	0	0	0	0	0	0
43	RLC Test Cases	0	0	0	0	0	0	0	0	0
44	Test Case requirements to GPRS mobility management	0	0	0	0	0	0	0	0	0
45	Session Management Procedure	0	0	0	0	0	0	0	0	0
46	LLC and SNDTCP Tests	0	0	0	0	0	0	0	0	0
70	Location Services	0	0	0	0	0	0	0	0	0
90	Text Telephony (TTY) Services	0	0	0	0	0	0	0	0	0
<b>Total:</b>		<b>46</b>	<b>0</b>	<b>0</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>



**The following terms are used in tables 1a and 1b above:**

<b>No.:</b>	Test section number of the Mobile Station Conformance Specifications 3GPP TS 51.010-1 and/or 3GPP TS 51.010-4.
<b>Description:</b>	Test section title of the Mobile Station Conformance Specifications 3GPP TS 51.010-1 and/or 3GPP TS 51.010-4 and/or PTCRB NAPRD.03.
<b>PASS:</b>	Amount of test cases which are conformant to the applied standards in the given GSM frequency band.
<b>FAIL:</b>	Amount of test cases which are not conformant to the applied standards in the given GSM frequency band.
<b>INC:</b>	Inconclusive: Amount of test cases with ambiguous results in the given GSM frequency band.

## **1.2. CETECOM's different Types of GSM Test Reports**

CETECOM issues the following two different types of GSM Test Reports:

**Full GSM Test Report:** This type of test report contains within Annex E a list of **all** test cases referenced in the corresponding "Leading Reference Documents for Testing" (see table 2 in section 4.1). Full GSM Test Reports contain a verification conclusion in section 1.5.

**Partial GSM Test Report:** This type of test report contains within Annex E a subset of test cases requested by the client and/or what is deemed necessary by CETECOM after a review of an existing product with respect to modification. No verification conclusion is given in section 1.5 for this type of test report.

## **1.3. Documentation received from the Client/Manufacturer**

CETECOM has received the PICS/PIXIT information for the equipment under test from the client and/or manufacturer (please refer to Annex C of this Test Report for details) which was the basis for accredited testing.

CETECOM has received sufficient documentation from the client and/or manufacturer to perform the tests as listed in Annex E of this report.

## **1.4. Validity of Test Results**

The test results given in this test report only relate to the GSM Terminal Equipment as specified in section 3.

  
Dipl.-Ing. Pierre Jean Dumay

Project Leader  
(Author of the Test Report)

  
Dipl.-Ing. Frédéric Bouillon

Deputy Project Leader  
(Verification of the Test Report)

  
Dipl.-Ing. Franck Dehour

Test Lab Manager  
(Responsible for the Test Report)

## **2. Administrative Data**

### **2.1. Identification of the Responsible Testing Laboratory**

<b>Company Name:</b>	CETECOM SARL
<b>Department:</b>	Mobile Communications
<b>Address:</b>	320 Rue Hélène Boucher 78530 Buc Cdx France
<b>Telephone:</b>	+33 1 39 24 29 59
<b>Fax:</b>	+33 1 39 24 29 83
<b>Responsible Test Lab Manager:</b>	Dipl.-Ing. Franck Dehour

### **2.2. Identification of the Testing Location(s)**

<b>Company Name:</b> (leading testing location)	CETECOM SARL
<b>Address:</b>	320 Rue Hélène Boucher 78530 Buc Cdx France

<b>Company Name:</b> (subcontracted testing location)	CETECOM GmbH
<b>Address:</b>	Im Teelbruch 122 D-45219 Essen Germany

### **2.3. Organisational Items**

<b>CETECOM Reference No.:</b>	504_06
<b>CETECOM Order No.:</b>	5047_06
<b>CETECOM Project Leader:</b>	Dipl.-Ing. Pierre Jean Dumay
<b>CETECOM Deputy Project Leader:</b>	Dipl.-Ing. Frédéric Bouillon
<b>Start of Testing:</b>	2006-08-28
<b>End of Testing:</b>	2006-11-07

## 2.4. Identification of the Client

<b>Company Name:</b>	Wavecom S.A.
<b>Address:</b>	3, esplanade du Foncet 92442 Issy les Moulineaux Cedex France
<b>Contact Person:</b>	Carine Direxel
<b>Telephone:</b>	+33 1 46 29 42 26
<b>Fax:</b>	+33 1 46 29 08 08

## 2.5. Identification of the Manufacturer

<b>Company Name:</b>	Wavecom S.A.
<b>Address:</b>	3, esplanade du Foncet 92442 Issy les Moulineaux Cedex France
<b>Contact Person:</b>	Carine Direxel
<b>Telephone:</b>	+33 1 46 29 42 26
<b>Fax:</b>	+33 1 46 29 08 08

**Note:** This data is based on the client's information.





### 3.3. Identification of all used Test Samples of the Equipment under Test

EUT ID *	Serial Number	Hardware Version	Software Version
EUT1	M/704	305	Open AT® Firmware 6.57

\*) The Equipment under Test Identifier (EUT ID) is used to simplify the identification in this Test Report

### 3.4. Identification of the Ancillary Equipment

AE ID *	Description	Serial Number	HW Status	SW Status
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\*) The Ancillary Equipment Identifier (AE ID) is used to simplify the identification in this Test Report

## 4. Applied Reference Documents

### 4.1. Leading Reference Documents for Testing

The Equipment under Test (EUT) has been tested at CETECOMs (own or subcontracted) laboratories according to the leading reference documents given in table 2 below:

**Table 2: Leading Reference Documents**

No.	Identity	Document Title	Version/Date
[1]	GCF-CC	Global Certification Forum - Certification Criteria	V3.23.1 (2006-07)

### 4.2. Specific Reference Documents for Testing

Table 3 summarizes specific reference documents such as harmonized standards or test specifications which were used for testing at CETECOMs (own or subcontracted) laboratories.

**Table 3: Specific Reference Documents**

No.	Identity	Document Title	Version/Date
[2]	3GPP TS 51.010-1	3rd Generation Partnership Project; Technical Specification Group GSM/EDGE Radio Access Network; Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification; Part 1: Conformance specification	V7.3.1 Release 7 (2006-10)
[3]	3GPP TS 51.010-2	3rd Generation Partnership Project; Technical Specification Group GSM/EDGE Radio Access Network; Digital cellular telecommunications system; Mobile Station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification	V7.3.0 Release 7 (2006-09)
[4]	3GPP TS 51.010-3	3rd Generation Partnership Project; Technical Specification Group GSM/EDGE Radio Access Network; Mobile Station (MS) conformance specification; Part 3: Layer 3 (L3) Abstract Test Suite (ATS)	V6.3.0 Release 6 (2005-09)
[5]	ETSI EN 301 511	Global System for Mobile communications (GSM); Harmonized EN for mobile stations in the GSM 900 and GSM 1800 bands covering essential requirements under article 3.2 of the R&TTE directive (1999/5/EC)	V9.0.2 (2003-03)
[6]	NAPRD.03	GSM N.A. Permanent Reference Document	V3.8.1 (2006-08)

### 4.3. Additional Reference Documents for Testing

Table 4 summarizes additional reference documents which were used for testing at CETECOM's (own or subcontracted) laboratories.

**Table 4: Additional Reference Documents**

No.	Identity / Description	Valid Since
[7]	<b>200602-79</b> TP7 Downgrade for TC 21.3.1 and TC 21.3.2 Request: 200602- 79	2006-02-24
[8]	<b>A-03-xxx-Workaround_TC_26_6_7_2r1.doc</b> Workaround for TC 26.6.7.2 on the R&S CRTU-G and R&S CRTC Test Platform	2003-10-20
[9]	<b>A-03-xxx_TC_14_2_2_TS8916B.doc</b> Non-Conformity in the Implementation of Test Case 14.2.2 on the TS8916B Test Platform	2003-07-19
[10]	<b>A-03-xxx_TC_21_3_1_TS8916B.doc</b> Workaround for TC 21.3.1 on the TS8916B Test Platform	2003-12-18
[11]	<b>A-03-xxx_TC_26_6_4_1.doc</b> Error in TC 26.6.4.1 on the R&S TS8916B Test Platform	2003-04-02
[12]	<b>PVG#21_xx_03_TC_26_6_4_1.doc</b> Error in TC 26.6.4.1 on the R&S TS8916B Test Platform	2003-04-07
[13]	<b>PVG24_094_04_TC_14_4_5</b> Error in TC 14.4.5 on the Rohde & Schwarz TS8950G Test Platform	2004-01-23
[14]	<b>PVG26_388_04_TC_26_9_6_1_1</b> PVG26_388_04_TC_26_9_6_1_1.doc PVG26_388	2004-07-26
[15]	<b>PVG26_405_04_TC_14_2_4_14_4_5</b> Error in test cases 14.2.4 and 14.4.5 on the Rohde & Schwarz TS8950G and Anite RAMS Test Platforms PVG27_405	2004-07-30
[16]	<b>PVG30_245_05_14_1_2_4_14_4_5_AHS</b> Implementation of test case 14.2.4 and 14.4.5 PVG30_245	2005-06-13
[17]	<b>PVG30_438_05_Downgrade_test_cases_for_DARP_rev1</b> Downgrade existing test cases for DARP PVG30_438	2005-08-11

# ANNEX A

of



## Partial GSM TEST REPORT

No. 504/06T05

# Accreditation Certificate

This Annex consists of 2 pages

Date of Report: 2006-11-09

**CETECOM is accredited  
according to  
DIN EN ISO/IEC 17025 by:**



**CTIA Authorized Test Lab**

**LAB CODE 20050615-00**

Observer of **GCF** Global Certification Forum

### **CETECOM SARL**

320 Rue Hélène Boucher ♦ 78530 Buc Cdx ♦ France

Phone: +33 1 39 24 29 59 ♦ Fax: +33 1 39 24 29 83 ♦ E-mail: [info@cetecom.fr](mailto:info@cetecom.fr) ♦ <http://www.cetecom.com>

Capital: 765000 Euro, SIRET: 400 345 559 00035 (Versailles), Code APE: 742C, N° VAT: FR 52 400 345 559, Registered in VERSAILLES, France

Board of Directors: Dr. Harald Ansorge, Hans Peter May

Translation

Deutsche Akkreditierungsstelle Technik (DATech) e.V.  
Signatory of the Multilateral Agreement of EA and ILAC for the mutual recognition

represented in the

Deutschen AkkreditierungsRat



Accreditation

The German Accreditation Body Technology (DATech) e.V. confirms that the  
Testing Laboratory

**CETECOM SARL**  
320, rue Hélène Boucher  
Bât 1

**F-78530 BUC**

is competent under the terms of DIN EN ISO/IEC 17025 to carry out testing in the fields

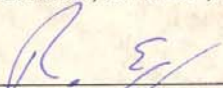
**Mobile Communications – GSM 850/900/1800/1900 (Mobile Stations)**  
**Private Mobile Radio (PMR)**

according to the annexed list of standards and specifications.

The accreditation is valid until: **February 9<sup>th</sup>, 2010**

The annex is deemed part of this certificate and comprises **5 pages**.

DAR-Registration No.: **DAT-P-176/94-C0**  
(This certificate is only valid in relation with DAT-P-176/94-02)  
Frankfurt/Main, June 25<sup>th</sup>, 2005

  
Dipl.-Ing. (FH) R. Egner  
Head of the Accreditation Body

Member in EA, ILAC, IAF

Translation for information purposes only. The German Accreditation Certificate is authoritative.

See notes overleaf

The annex pages of the certificate may be received from CETECOM on request.

# ANNEX B

of



## Partial GSM TEST REPORT

No. 504/06T05

# Test Equipment

This Annex consists of 12 pages

Date of Report: 2006-11-09

**CETECOM is accredited  
according to  
DIN EN ISO/IEC 17025 by:**



**CTIA Authorized Test Lab**

**LAB CODE 20050615-00**

Observer of **GCF** Global Certification Forum

### **CETECOM SARL**

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Capital: 765000 Euro, SIRET: 400 345 559 00035 (Versailles), Code APE: 742C, N° VAT: FR 52 400 345 559, Registered in VERSAILLES, France

Board of Directors: Dr. Harald Ansorge, Hans Peter May

## **1. Test Equipment Location**

Testing was performed at the following marked locations:

### **1.1 Location "Essen"**

Address: *CETECOM* GmbH  
Im Teelbruch 122  
D-45219 Essen  
Germany



### **1.2 Location "Milpitas, CA"**

Address: *CETECOM* Inc.  
411 Dixon Landing Road  
Milpitas, CA 95035  
U.S.A.



### **1.3 Location "Buc"**

Address: *CETECOM* SARL  
320 Rue Hélène Boucher  
78530 Buc Cdx  
France



### **1.4 Location "Feldkirchen / Munich"**

Address: *CETECOM* GmbH  
Kapellenstraße 13  
85622 Feldkirchen / Munich  
Germany



### **1.5 Location "Taipei"**

Address: *CETECOM* Taiwan Ltd.  
2F, No. 181, Ti Ding Blvd. Sec.2, Neihu Dist.  
Taipei 114  
Taiwan, R.O.C.



### **1.6 Location "San Diego, CA"**

Address: *CETECOM* Inc. - Branch San Diego  
3636 Nobel Dr., Suite 250  
San Diego, CA 92122  
U.S.A



### **1.7 Location "Yongin"**

Address: *CETECOM MOVON* Ltd.

194-1, Geumeo-Ri, Pogok-Myon, Yongin City

Yongin 449-812

Korea





## 2. List of Test Equipment

### 2.1 R&S TS8916B

<b>ID:</b>	<b>R&amp;S TS8916B [Buc 1]</b>								
Location:	Buc (1.3)								
Serialnumber:	338895/002								
Hardware:	<table> <tr> <td>TX Ch.</td> <td>10</td> </tr> <tr> <td>RX Ch.</td> <td>6</td> </tr> <tr> <td>Spectrum Analyser</td> <td>FSIQ</td> </tr> <tr> <td>Fading Simulator</td> <td>SOFI05</td> </tr> </table>	TX Ch.	10	RX Ch.	6	Spectrum Analyser	FSIQ	Fading Simulator	SOFI05
TX Ch.	10								
RX Ch.	6								
Spectrum Analyser	FSIQ								
Fading Simulator	SOFI05								
Software version:	<p><b>Basis Software:</b>                  CR02P2P version 1.17 + 1.1705                  CR02PH2 version 1.4501                  G02P2P version 1.61                  TS8916B version 2.07 and v.2.0704                  WinTSYS version 1.12</p> <p><b>Test Case Software:</b>                  TC9018 version 1.18 and v.3.10                  TCEFR18 version 1.17 and v.3.10                  TCEFR19 version 1.17 and v.3.10                  TCEFR90 version 1.17 and v.3.10                  TCEGSM2 version 1.17 and v.1.1702 and v.1.1703 and v.3.10                  TCGCF18 version 1.03 and v.3.10                  TCGCF19 version 1.03 and v.1v02                  TCGCF90 version 1.03 and v.3.10                  TCGPRS1 version 1.25                  TCGPRS2 version 1.08 and v.1.09                  TCLY18 version 1.17 and v.1.1701 and v.3.10                  TCLY19 version 1.17 and v.3.10                  TCLY90 version 1.17 and v.1.1701 and v.3.10                  TCRF18 version 1.17 and v.1.1703 and v.3.10                  TCRF19 version 1.17 and v.3.10                  TCRF90 version 1.17 and v.1.1703 and v.3.10                  TCSR18 version 1.17 and v.3.10                  TCSR19 version 1.17 and v.3.10                  TCSR90 version 1.17 and v.3.10</p>								
Ambient Conditions:	Temperature: 15°C - 35°C      Rel. Humidity: 20% - 75%								
Calibration:	Date of last Test Equipment Calibration: 2006-09-15								

## 2.2 Anite SAT (Racal HW)

<b>ID:</b>	<b>Anite SAT (Racal HW) [Ess 2]</b>
<b>Location:</b>	Essen (1.1)
<b>Serialnumber:</b>	Racal: 2766, 2779, 2804, 2806, 2807, 2808, Combiner: 6886
<b>Hardware:</b>	SAT(R), Racal 6103 Platform
<b>Software version:</b>	<p><b>Basis Software:</b>            Anite CT (EGPRS) Campaign Manager version 35 and v.36            Anite PT (GERAN) version 25.0 and v.26.0            CT GSM Test Manager version 23.0 and v.24.0</p> <p><b>Test Case Software:</b>            SAT AMR ATS version V003            SAT Cell Selection version 23.00 and v.24.00            SAT Dual Band version 23.00 and v.24.00            SAT EFR version 23.00 and v.24.00            SAT GCF ATS version 23.00 and v.24.00            SAT GPRS Batch 1 version 1.35 and v.1.36            SAT GPRS Batch 2 version 2.35 and v.2.35.1 and v.2.36            SAT GPRS Batch 3 version 3.35 and v.3.35.1 and v.3.36            SAT GPRS Batch 4 version 4.35 and v.4.35.1 and v.4.36            SAT Layer 2 version 23.00 and v.24.00            SAT Main ATS version 23.00 and v.24.00            SAT PCS Cell Selection version 23.00 and v.24.00            SAT PCS EFR version 23.00 and v.24.00            SAT PCS Layer 2 version 23.00 and v.24.00            SAT PCS Main ATS version 23.00 and v.23.10 and v.24.00            SAT PCS SAT 8 version 23.00 and v.24.00            SAT PCS Section 32 version 23.00 and v.24.00            SAT RLM version 22.00            SAT RLP version 23.00 and v.24.00            SAT SAT 8 version 23.00 and v.24.00            SAT Section 32 version 23.00 and v.24.00</p>
<b>Ambient Conditions:</b>	Temperature: 15°C - 35°C      Rel. Humidity: 20% - 75%
<b>Calibration:</b>	Date of last Test Equipment Calibration: 2006-08-30

### 2.3 R&S CRTU-G

<b>ID:</b>	<b>R&amp;S CRTU-G [Ess 1]</b>
Location:	Essen (1.1)
Serialnumber:	Master: 100230 Slave1: 100215 Slave2: 100323 Slave3: 100321 Slave4: 100322
Hardware:	Multibox (5)
Software version:	<p><b>Basis Software:</b>                      CR02P2P BP version 1.11 and v.1.20 and v.1.22 and v.1.30                      CR02P2P ASP version 2.04 and v.2.10 and v.2.13 and v.2.20 and v.2.32 and v.2.45 and v.2.50 and v.2.55 and v.2.63 and v.3.02 and v.3.30 and v.3.31 and v.3.33 and v.3.34 and v.3.44 and v.3.50 and v.3.60                      CR02P2P EP version 1.20 and v.1.21 and v.1.30 and v.1.40 and v.1.60 and v.1.63                      U02P2P version 1.60 and v.1.80 and v.1.81 and v.1.91 and v.1.99 and v.1.9902 and v.1.9905 and v.1.9970 and v.1.9975 and v.1.997501 and v.1.997503</p> <p><b>Test Case Software:</b>                      CRTKEGS version 1.80 and v.2.00                      CRTKLU1 version 1.30                      CRTKSS1 version 1.71 and v.1.80                      CRTKSS2 version 1.51 and v.1.60                      CRTKSS3 version 1.51 and v.1.60                      CRTKSS5 version 1.60 and v.1.70                      CRTKSS6 version 1.51 and v.1.60                      CRTPK51 version 2.00                      CRTPK52 version 2.00                      CRTPK53 version 2.00                      CRTPK54 version 2.00 and v.2.10                      CRTPK56 version 2.00                      CRTPK58 version 2.00                      CRTPK59 version 1.91 and v.2.00                      CRTPK5B version 1.50                      CRTPK61 version 2.00                      CRTPK62 version 2.00                      CRTPK63 version 2.00                      CRTPK64 version 2.00 and v.2.10                      CRTPK66 version 2.00                      CRTPK68 version 2.00                      CRTPK69 version 1.91 and v.2.00                      CRTPK6B version 1.50                      CRTPK71 version 2.00                      CRTPK72 version 1.41 and v.1.82 and v.2.00                      CRTPK73 version 2.00                      CRTPK74 version 2.00 and v.2.10                      CRTPK76 version 1.41 and v.2.00</p>

Software version:	<i>(continued)</i> CRTPK78 version 2.00 CRTPK79 version 1.91 and v.2.00 CRTPK7B version 1.50 CRTU-GC02 version 1.60 and v.1.61 and v.1.70 CRTU-GC03 version 1.50 and v.1.60 CRTU-GC04 version 1.40 and v.1.50 CRTU-GC05 version 1.41 CRTU-GC06 version 1.51 CRTU-GC07 version 1.41 and v.1.50 CRTU-GC08 version 1.41 and v.1.50 CRTU-GC09 version 2.70 and v.3.20 and v.4.00 and v.4.10 CRTU-GC12 version 1.21 CRTU-GC18 version 3.51 and v.4.00 and v.4.10 CRTU-GC19 version 1.20 and v.1.70 CRTU-GC20 version 1.00 and v.1.41 and v.1.50 CRTU-GC21 version 1.20 CRTU-GC22 version 1.12 CRTU-GC23 version 1.30 and v.1.31 and v.1.40 CRTU-GC24 version 1.51 and v.1.52 and v.1.60 CRTU-GC31 version 3.22 and v.4.00 and v.4.10 CRTU-GC32 version 3.32 and v.4.00 and v.4.10 CRTU-GC33 version 4.00 and v.4.10 CRTU-GC34 version 3.31 and v.4.00 and v.4.10 CRTU-GC35 version 4.00 and v.4.10 CRTU-GC36 version 3.41 and v.4.00 and v.4.10 CRTU-GC37 version 4.00 and v.4.10 CRTU-GC39 version 4.00 and v.4.10 CRTU-GC41 version 4.00 and v.4.10 CRTU-GC61 version 4.00 and v.4.10 CRTU-GC62 version 4.00 and v.4.10 CRTU-GC63 version 4.00 and v.4.10 CRTU-GC64 version 3.20 and v.3.30 and v.4.00 and v.4.10 CRTU-GC65 version 4.00 and v.4.10 CRTU-GC68 version 4.00 and v.4.10 CRTU-GC69 version 3.40 and v.4.00 CRTU-GC70 version 4.00 and v.4.10 CRTU-GC71 version 4.00 and v.4.10 CRTU-GC72 version 4.00 and v.4.10 CRTU-GC73 version 4.00 and v.4.10 CRTU-GC74 version 4.00 and v.4.10 CRTU-GC75 version 4.00 and v.4.10 CRTU-GC76 version 4.00 and v.4.10 CRTU-GC77 version 3.51 and v.4.00 and v.4.10 CRTU-GC78 version 3.30 and v.4.00 and v.4.10
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Software version:	(continued) CRTU-GC79 version 2.70 and v.3.30 and v.3.31 and v.4.00 and v.4.10 CRTU-GC80 version 2.70 and v.2.71 and v.4.00 and v.4.10 CRTU-GC84 version 3.43 and v.4.00 and v.4.10 CRTU-GC85 version 4.00 and v.4.10 CRTU-GC86 version 4.00 and v.4.10 CRTU-GC87 version 3.20 and v.4.00 and v.4.10 CRTU-GC88 version 3.50 and v.4.00 and v.4.10 CRTU-GC90 version 1.81 and v.1.90 and v.4.00 and v.4.10 CRTU-GC91 version 1.70 and v.4.00 and v.4.10 CU-GC01 version 1.51
Ambient Conditions:	Temperature: 15°C - 35°C      Rel. Humidity: 20% - 75%
Calibration:	Date of last Test Equipment Calibration: 2006-08-08
<b>ID:</b>	<b>R&amp;S CRTU-G [Buc 1]</b>
Location:	Buc (1.3)
Serialnumber:	Master 100294 Slave 1 100500 Slave 2 100604
Hardware:	
Software version:	<b>Basis Software:</b> CR02P2P BP version 1.22 CR02P2P ASP version 2.04 and v.2.06 and v.2.13 and v.2.20 and v.2.30 and v.2.31 and v.2.32 and v.2.50 and v.2.55 and v.2.60 CR02P2P EP version 1.10 and v.1.40 <b>Test Case Software:</b> CRTKEGS version 1.80 CRTKSS1 version 1.71 and v.1.80 CRTKSS2 version 1.51 and v.1.60 CRTKSS3 version 1.51 and v.1.60 CRTKSS5 version 1.60 and v.1.70 CRTKSS6 version 1.51 and v.1.60 CRTPK51 version 2.00 CRTPK52 version 2.00 CRTPK53 version 2.00 CRTPK54 version 2.00 CRTPK56 version 2.00 CRTPK58 version 2.00 CRTPK59 version 1.91 and v.2.00 CRTPK5B version 1.50 CRTPK61 version 2.00 CRTPK62 version 2.00 CRTPK63 version 2.00 CRTPK64 version 2.00 CRTPK66 version 2.00 CRTPK68 version 2.00 CRTPK69 version 1.91 and v.2.00 CRTPK6B version 1.50

Software version:	<i>(continued)</i> CRTPK71 version 2.00 CRTPK72 version 2.00 CRTPK73 version 2.00 CRTPK74 version 2.00 CRTPK76 version 2.00 CRTPK78 version 2.00 CRTPK79 version 1.91 and v.2.00 CRTPK7B version 1.50 CRTU-GC02 version 1.61 CRTU-GC04 version 1.40 and v.1.50 CRTU-GC05 version 1.40 and v.1.41 CRTU-GC06 version 1.51 CRTU-GC07 version 1.41 CRTU-GC09 version 4.00 CRTU-GC12 version 1.21 CRTU-GC18 version 4.00 CRTU-GC19 version 1.70 CRTU-GC20 version 1.50 CRTU-GC24 version 1.60 CRTU-GC31 version 4.00 and v.4.10 CRTU-GC32 version 4.00 and v.4.10 CRTU-GC33 version 4.00 and v.4.10 CRTU-GC34 version 4.00 CRTU-GC35 version 4.00 CRTU-GC36 version 4.00 and v.4.10 CRTU-GC37 version 4.00 and v.4.10 CRTU-GC39 version 4.00 CRTU-GC41 version 4.00 CRTU-GC61 version 4.00 CRTU-GC62 version 4.00 and v.4.10 CRTU-GC63 version 4.00 CRTU-GC64 version 4.00 CRTU-GC65 version 4.00 and v.4.10 CRTU-GC68 version 4.00 and v.4.10 CRTU-GC69 version 4.00 CRTU-GC70 version 4.00 and v.4.10 CRTU-GC71 version 4.00 and v.4.10 CRTU-GC72 version 4.00 CRTU-GC73 version 4.00 CRTU-GC74 version 4.00 and v.4.10 CRTU-GC75 version 4.00 CRTU-GC76 version 4.00 CRTU-GC77 version 4.00 CRTU-GC78 version 4.00
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Partial GSM Test Report No. 504/06T05

Annex B: Test Equipment

Date of Report: 2006-11-09

V4.01 2005-11-07

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Software version:	(continued) CRTU-GC79 version 4.00 CRTU-GC84 version 4.00 CRTU-GC85 version 4.00 CRTU-GC86 version 4.00 CU-GC01 version 1.51
Ambient Conditions:	Temperature: 15°C - 35°C      Rel. Humidity: 20% - 75%
Calibration:	Date of last Test Equipment Calibration: 2006-09-25

## 2.4 R&S TS8950G

ID:	R&S TS8950G [Buc 1]
Location:	Buc (1.3)
Serialnumber:	100050
Hardware:	SSCU    var. 03
Software version:	<b>Basis Software:</b> ABFS Firmware version 1.21 CR02P2P ASP version 2.50 and v.3.35 CR02P2P EP version 1.40 FSU Firmware/Application version 3.61/3.60 XP MOPSI version >=BPv1.30, EPv1.40, ASP_v3.35 and v.ASP_ & _SXv2.96 RF-LIB version 2.73 and v.2.7301 and v.3.0001 and v.3.12 and v.3.13 and v.3.15 and v.3.16 and v.3.33 and v.3.34 and v.3.43 and v.3.50 and v.3.90 <b>Test Case Software:</b> RS-PASS-APPL version 2.7301 and v.3.0001 and v.3.12 and v.3.13 and v.3.15 and v.3.16 and v.3.32 and v.3.33 and v.3.34 and v.3.43 and v.3.52 and v.3.60 and v.3.61 and v.3.90 and v.3.93
Ambient Conditions:	Temperature: 20°C - 26°C      Rel. Humidity: 20% - 75%
Calibration:	Date of last Test Equipment Calibration: 2006-03-07

## 2.5 Racal 6103 AIME/CT

ID:	Racal 6103 AIME/CT [Ess 2]
Location:	Essen (1.1)
Serialnumber:	RACAL 6103G: 4744,4753,4754,4755; RF Multifunction Unit: 7006
Hardware:	Racal 6103 AIME/CT
Software version:	<b>Basis Software:</b> 6103-AIME System Software version 5.02.03 <b>Test Case Software:</b> Racal AIME/CT Option 611 version 5.04.01 / 5.02.03 and v.5.05.01 / 5.02.03 Racal AIME/CT Option 612 version 5.04.01 / 5.02.03 and v.5.05.01 / 5.02.03 Racal AIME/CT Option 613 version 5.04.01 / 5.02.03 and v.5.05.01 / 5.02.03 Racal AIME/CT Option 615 version 5.04.01 / 5.02.03 and v.5.05.01 / 5.02.03

Software version:	<i>(continued)</i> Racal AIME/CT Option 618 version 5.04.01 / 5.02.03 and v.5.05.01 / 5.02.03 Racal AIME/CT Option 619 version 5.04.01 / 5.02.03 and v.5.05.01 / 5.02.03 Racal AIME/CT Option 620 version 5.04.02 / 5.02.03 and v.5.05.01 / 5.02.03 Racal AIME/CT Option 621 version 5.04.01 / 5.02.03 and v.5.05.01 / 5.02.03 Racal AIME/CT Option 622 version 5.04.02 / 5.02.03 and v.5.05.01 / 5.02.03 Racal AIME/CT Option 623 version 5.04.01 / 5.02.03 and v.5.05.01 / 5.02.03 Racal AIME/CT Option 624 version 5.04.01 / 5.02.03 and v.5.05.01 / 5.02.03 Racal AIME/CT Option 625 version 5.04.01 / 5.02.03 and v.5.05.01 / 5.02.03 Racal AIME/CT Option 626 version 5.04.01 / 5.02.03 and v.5.05.01 / 5.02.03 Racal AIME/CT Option 627 version 5.04.02 / 5.02.03 and v.5.05.01 / 5.02.03 Racal AIME/CT Option 628 version 5.04.01 / 5.02.03 and v.5.05.01 / 5.02.03 Racal AIME/CT Option 630 version 5.04.03 / 5.02.03 and v.5.05.01 / 5.02.03 Racal AIME/CT Option 631 version 5.04.02 / 5.02.03 and v.5.05.01 / 5.02.03 Racal AIME/CT Option 632 version 5.04.01 / 5.02.03 and v.5.05.01 / 5.02.03 Racal AIME/CT Option 633 version 5.04.02 / 5.02.03 and v.5.05.01 / 5.02.03 Racal AIME/CT Option 634 version 5.04.01 / 5.02.03 and v.5.05.02 / 5.02.03 and v.5.05.03 / 5.02.03 Racal AIME/CT Option 635 version 5.04.01 / 5.02.03 and v.5.05.02 / 5.02.03 and v.5.05.03 / 5.02.03 Racal AIME/CT Option 636 version 5.04.02 / 5.02.03 and v.5.05.01 / 5.02.03 Racal AIME/CT Option 637 version 5.04.01 / 5.02.03 and v.5.05.02 / 5.02.03 Racal AIME/CT Option 638 version 5.04.03 / 5.02.03 and v.5.05.01 / 5.02.03 Racal AIME/CT Option 661 version 5.05.01 / 5.02.03 Racal AIME/CT Option 662 version 5.05.01 / 5.02.03 Racal AIME/CT Option 663 version 5.05.01 / 5.02.03 Racal AIME/CT Option 665 version 5.05.01 / 5.02.03 Racal AIME/CT Option 666 version 5.05.01 / 5.02.03 Racal AIME/CT Option 667 version 5.05.01 / 5.02.03 Racal AIME/CT Option 668 version 5.05.02 / 5.02.03 Racal AIME/CT Option 669 version 5.05.01 / 5.02.03 Racal AIME/CT Option 670 version 5.05.01 / 5.02.03 Racal AIME/CT Option 671 version 5.05.01 / 5.02.03 Racal AIME/CT Option 710 version 5.05.02 / 5.02.03 Racal AIME/CT Option 711 version 5.05.02 / 5.02.03 Racal AIME/CT Option 712 version 5.05.02 / 5.02.03 Racal AIME/CT Option 713 version 5.05.02 / 5.02.03 Racal AIME/CT Option 714 version 5.03.00 / 5.02.03 and v.5.05.06 / 5.02.03 Racal AIME/CT Option 715 version 5.05.03 / 5.02.03 Racal AIME/CT Option 716 version 5.03.00 / 5.02.03 and v.5.05.03 / 5.02.03 Racal AIME/CT Option 717 version 5.04.00 / 5.02.03 and v.5.05.03 / 5.02.03 Racal AIME/CT Option 718 version 5.05.03 / 5.02.03 Racal AIME/CT Option 719 version 5.05.02 / 5.02.03 Racal AIME/CT Option 720 version 5.05.02 / 5.02.03
Ambient Conditions:	Temperature: 15°C - 35°C      Rel. Humidity: 20% - 75%
Calibration:	Date of last Test Equipment Calibration: 2006-09-21



## 2.6 Anite SAT (A) UE

<b>ID:</b>	<b>Anite SAT (A) UE [Ess 1]</b>
Location:	Essen (1.1)
Serialnumber:	tbd
Hardware:	Version Number                      Agilent 8960 Series 10 (E5515C)
Software version:	<p><b>Basis Software:</b>                      Anite CT (EGPRS) Campaign Manager version 36                      Anite CT (UTRAN) version 7.5                      Anite PT (GERAN) version 26.0                      Anite PT (UTRAN) version 3.5                      CT GSM Test Manager version 24.0</p> <p><b>Test Case Software:</b>                      ETSI M-RAT Batch#1 version 4.5                      ETSI M-RAT Batch#2 version 4.5                      ETSI M-RAT Batch#3 version 4.5                      SAT 850 Cell Selection ATS version 24.00                      SAT 850 Dual Band ATS version 24.00                      SAT 850 EFR ATS version 24.00                      SAT 850 Main ATS version 24.00                      SAT Cell Selection version 24.00                      SAT Dual Band version 24.00                      SAT EFR version 24.00                      SAT GCF ATS version 24.00                      SAT GPRS Batch 1 version 1.36                      SAT GPRS Batch 2 version 2.36                      SAT GPRS Batch 3 version 3.36                      SAT GPRS Batch 4 version 4.36                      SAT Layer 2 version 24.00                      SAT Main ATS version 24.00                      SAT PCS Cell Selection version 24.00                      SAT PCS EFR version 24.00                      SAT PCS Layer 2 version 24.00                      SAT PCS Main ATS version 24.00                      SAT PCS Section 32 version 24.00                      SAT RLP version 24.00                      SAT Section 32 version 24.00</p>
Ambient Conditions:	Temperature: 15°C - 35°C      Rel. Humidity: 20% - 75%
Calibration:	Date of last Test Equipment Calibration: N/A

# ANNEX C

of



## Partial GSM TEST REPORT

No. 504/06T05

for

Wavecom

GSM 850/900/1800/1900 Terminal Equipment

Type Q24 Plus HR codec

with

Final Hardware Version: 305

Final Software Version: Open AT® Firmware 6.57

## PICS/PIXIT Information

This Annex consists of 22 pages

Date of Report: 2006-11-09

The PICS/PIXIT data given or referenced in this annex is based on the latest information received from the client or User Equipment (UE) manufacturer, either verbally or in writing. Therefore, this given information has been used for testing at CETECOM for the above mentioned UE configuration. It is the responsibility of the legal owner of the tested UE (i.e. owner of the UE's brand name as given on the cover page of this report) to verify the correctness of the data on the following pages and to indicate any possible incorrectness to CETECOM.

CETECOM is accredited  
according to  
DIN EN ISO/IEC 17025 by:



### CETECOM SARL

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Capital: 765000 Euro, SIRET: 400 345 559 00035 (Versailles), Code APE: 742C, N° VAT: FR 52 400 345 559, Registered in VERSAILLES, France

Board of Directors: Dr. Harald Ansorge, Hans Peter May

## PICS - Protocol Implementation Conformance Statement

According to Specification 3GPP TS.51.010-2 V7.3.0 (2006-09)

Table A.1: Types of Mobile Stations

Item	Release	Type of Mobile Station	Supported
1	Ph2	Standard GSM Band (P-GSM)	Y
2	Ph2	Extended GSM Band (E-GSM), (including standard Band)	Y
3	R96	R-GSM Band (including standard and E-GSM Band)	N
4	Ph2	GSM 1800 band	Y
5	Ph2	Multiple-band, not simultaneously	N
6	Ph2	Multiple-band, simultaneously	Y
7	Ph2	Small Mobile Station	Y
8	Ph2	GSM Power Class 2	N
9	Ph2	GSM Power Class 3	N
10	Ph2	GSM Power Class 4	Y
11	Ph2	GSM Power Class 5	N
12	Ph2	DCS Power Class 1	Y
13	Ph2	DCS Power Class 2	N
14	Ph2	DCS Power Class 3	N
15	R96	HSCSD Multislot MS	N
16	R99	GSM 450 band	N
17	R99	GSM 480 band	N
18	R98	GSM 1900 band	Y
19	R98	GSM 1900 Power Class 1	Y
20	R98	GSM 1900 Power Class 2	N
21	R98	GSM 1900 Power Class 3	N
22	R96	Multislot Class1	N
23	R96	Multislot Class2	N
24	R96	Multislot Class3	N
25	R96	Multislot Class4	N
26	R96	Multislot Class5	N
27	R96	Multislot Class6	N
28	R96	Multislot Class7	N
29	R96	Multislot Class8	N
30	R96	Multislot Class9	N
31	R96	Multislot Class10	N
32	R96	Multislot Class11	N
33	R96	Multislot Class12	N
34	R96	Multislot Class13	N
35	R96	Multislot Class14	N
36	R96	Multislot Class15	N
37	R96	Multislot Class16	N
38	R96	Multislot Class17	N
39	R96	Multislot Class18	N
40	R97	Multislot Class19	N
41	R97	Multislot Class20	N
42	R97	Multislot Class21	N
43	R97	Multislot Class22	N
44	R97	Multislot Class23	N
45	R97	Multislot Class24	N
46	R97	Multislot Class25	N
47	R97	Multislot Class26	N
48	R97	Multislot Class27	N
49	R97	Multislot Class28	N
50	R97	Multislot Class29	N
51	R97	GPRS Multislot operation	Y
52	R99	EGPRS capable of 8PSK in Uplink, of all Multislot classes	N
53	Rel-4	GSM 700 band	N
54	Rel-4	GSM 750 band	N
55	R99	GSM 850 band	Y

Item	Release	Type of Mobile Station	Supported
56	R99	Support of UTRAN Radio Access Technology	N
57	R97	Support of GPRS Multislot class on the uplink	Y
58	R99	Support of COMPACT	N
59	R99	DTM/GPRS Multislot Class 1	N
60	R99	DTM/GPRS Multislot Class 5	N
61	R99	DTM/GPRS Multislot Class 9	N
62	R99	Support of singleslot allocation in DTM/GPRS	N
63	R99	Support of UTRAN FDD	N
64	R99	Support of UTRAN TDD	N
65	R98	Support of Conventional GPS	N
66	R99	EGPRS Multislot operation	N
67	R97	GPRS Multislot Class1	N
68	R97	GPRS Multislot Class2	N
69	R97	GPRS Multislot Class3	N
70	R97	GPRS Multislot Class4	N
71	R97	GPRS Multislot Class5	N
72	R97	GPRS Multislot Class6	N
73	R97	GPRS Multislot Class7	N
74	R97	GPRS Multislot Class8	N
75	R97	GPRS Multislot Class9	N
76	R97	GPRS Multislot Class10	Y
77	R97	GPRS Multislot Class11	N
78	R97	GPRS Multislot Class12	N
79	R97	GPRS Multislot Class13	N
80	R97	GPRS Multislot Class14	N
81	R97	GPRS Multislot Class15	N
82	R97	GPRS Multislot Class16	N
83	R97	GPRS Multislot Class17	N
84	R97	GPRS Multislot Class18	N
85	R97	GPRS Multislot Class19	N
86	R97	GPRS Multislot Class20	N
87	R97	GPRS Multislot Class21	N
88	R97	GPRS Multislot Class22	N
89	R97	GPRS Multislot Class23	N
90	R97	GPRS Multislot Class24	N
91	R97	GPRS Multislot Class25	N
92	R97	GPRS Multislot Class26	N
93	R97	GPRS Multislot Class27	N
94	R97	GPRS Multislot Class28	N
95	R97	GPRS Multislot Class29	N
96	R99	EGPRS Multislot Class1	N
97	R99	EGPRS Multislot Class2	N
98	R99	EGPRS Multislot Class3	N
99	R99	EGPRS Multislot Class4	N
100	R99	EGPRS Multislot Class5	N
101	R99	EGPRS Multislot Class6	N
102	R99	EGPRS Multislot Class7	N
103	R99	EGPRS Multislot Class8	N
104	R99	EGPRS Multislot Class9	N
105	R99	EGPRS Multislot Class10	N
106	R99	EGPRS Multislot Class11	N
107	R99	EGPRS Multislot Class12	N
108	R99	EGPRS Multislot Class13	N
109	R99	EGPRS Multislot Class14	N
110	R99	EGPRS Multislot Class15	N
111	R99	EGPRS Multislot Class16	N
112	R99	EGPRS Multislot Class17	N
113	R99	EGPRS Multislot Class18	N
114	R99	EGPRS Multislot Class19	N
115	R99	EGPRS Multislot Class20	N
116	R99	EGPRS Multislot Class21	N
117	R99	EGPRS Multislot Class22	N
118	R99	EGPRS Multislot Class23	N
119	R99	EGPRS Multislot Class24	N

Item	Release	Type of Mobile Station	Supported
120	R99	EGPRS Multislot Class25	N
121	R99	EGPRS Multislot Class26	N
122	R99	EGPRS Multislot Class27	N
123	R99	EGPRS Multislot Class28	N
124	R99	EGPRS Multislot Class29	N
125	R99	GSM 850 Power Class 2	N
126	R99	GSM 850 Power Class 3	N
127	R99	GSM 850 Power Class 4	Y
128	R99	GSM 850 Power Class 5	N
129	R99	8-PSK GSM Power Class E1	N
130	R99	8-PSK GSM Power Class E2	N
131	R99	8-PSK GSM Power Class E3	N
132	R99	8-PSK DCS Power Class E1	N
133	R99	8-PSK DCS Power Class E2	N
134	R99	8-PSK DCS Power Class E3	N
135	R99	8-PSK PCS Power Class E1	N
136	R99	8-PSK PCS Power Class E2	N
137	R99	8-PSK PCS Power Class E3	N
138	R99	8-PSK GSM 850 Power Class E1	N
139	R99	8-PSK GSM 850 Power Class E2	N
140	R99	8-PSK GSM 850 Power Class E3	N
141	R99	GSM850 and GSM1800 Band Interworking	N
142	R99	GSM900 and GSM1900 Band Interworking	N
143	R99	GSM850 and GSM900 Band Interworking	N
144	R99	DTM/EGPRS Multislot Class 1	N
145	R99	DTM/EGPRS Multislot Class 5	N
146	R99	DTM/EGPRS Multislot Class 9	N
147	R99	Support of singleslot allocation in DTM/EGPRS	N
148	R99	DTM/GPRS Multislot Class 11	N
149	Rel-5	GPRS Multislot Class30	N
150	Rel-5	GPRS Multislot Class31	N
151	Rel-5	GPRS Multislot Class32	N
152	Rel-5	GPRS Multislot Class33	N
153	Rel-5	GPRS Multislot Class34	N
154	Rel-5	GPRS Multislot Class35	N
155	Rel-5	GPRS Multislot Class36	N
156	Rel-5	GPRS Multislot Class37	N
157	Rel-5	GPRS Multislot Class38	N
158	Rel-5	GPRS Multislot Class39	N
159	Rel-5	GPRS Multislot Class40	N
160	Rel-5	GPRS Multislot Class41	N
161	Rel-5	GPRS Multislot Class42	N
162	Rel-5	GPRS Multislot Class43	N
163	Rel-5	GPRS Multislot Class44	N
164	Rel-5	GPRS Multislot Class45	N
165	Rel-5	EGPRS Multislot Class30	N
166	Rel-5	EGPRS Multislot Class31	N
167	Rel-5	EGPRS Multislot Class32	N
168	Rel-5	EGPRS Multislot Class33	N
169	Rel-5	EGPRS Multislot Class34	N
170	Rel-5	EGPRS Multislot Class35	N
171	Rel-5	EGPRS Multislot Class36	N
172	Rel-5	EGPRS Multislot Class37	N
173	Rel-5	EGPRS Multislot Class38	N
174	Rel-5	EGPRS Multislot Class39	N
175	Rel-5	EGPRS Multislot Class40	N
176	Rel-5	EGPRS Multislot Class41	N
177	Rel-5	EGPRS Multislot Class42	N
178	Rel-5	EGPRS Multislot Class43	N
179	Rel-5	EGPRS Multislot Class44	N
180	Rel-5	EGPRS Multislot Class45	N
181	Rel-4	T GSM Band	N
182	Rel-7	GSM 710 band	N
183	Rel-7	T GSM 810 band	N

Item	Release	Type of Mobile Station	Supported
184	Rel-4	DTM/EGPRS Multislot Class 11	N

Table A.1b: MS Feature Release Supported

Item	Release	MS Feature Release Supported	Values	
			Allowed	Supported
1	R97	Release of GPRS supported	R97	Y
			R98	N
			R99	N
			Release 4	N
			Release 5	N
			Release 6	N
			Release 7	N
2	R98	Release of AMR supported	R98	N
			R99	N
			Release 4	N
			Release 5	N
			Release 6	N
			Release 7	N
3	R99	Release of EGPRS supported	R99	N
			Release 4	N
			Release 5	N
			Release 6	N
			Release 7	N

Table A.2: Mobile Station Features

Item	Release	Mobile Station Feature	Supported
1	Ph2	Display of Called Number	N
2	Ph2	Indication of Call Progress Signals	N
3	Ph2	Country / PLMN Indication	N
4	Ph2	Country / PLMN Selection	Y
5	Ph2	Keypad	N
6	Ph2	IMEI	Y
7	Ph2	Short Message Overflow Indication	N
8	Ph2	DTE /DCE Interface	Y
9	Ph2	ISDN "S" Interface	N
10	Ph2	International Access Function	Y
11	Ph2	Service Indicator	N
12	Ph2	Autocalling restriction capabilities	N
13	Ph2	Dual Tone Multi Frequency function	Y
14	Ph2	Subscription Identity Management	Y
15	Ph2	On / Off switch	Y
16	Ph2	Subaddress	N
17	Ph2	Support of Encryption A5/1	Y
18	---	Void	N
19	Ph2	Short Message Service Cell Broadcast DRX	Y
20	Ph2	Abbreviated Dialling	Y
21	Ph2	Fixed Number Dialling	Y
22	Ph2	Barring of Outgoing Calls	N
23	Ph2	DTMF Control Digits Separator	N
24	Ph2	Selection of Directory No in Short Messages	N
25	Ph2	Last Numbers Dialed	Y
26	Ph2	At least one autocalling feature	N
27	Ph2	Alphanumeric display	N
28	Ph2	Other means of display	N
29	Ph2	Speech indicator	N
30	R96	Support of the extended Short message cell broadcast channel	N
31	R96	Support of Additional Call Set-up MMI Procedures	N
32	R96	Network Identity and Timezone	Y
33	Ph2	Ciphering Indicator	N
34	R96	Network's indication of alerting in the MS \$(NI Alert in MS)\$	N

Item	Release	Mobile Station Feature	Supported
35	R96	ME-SIM lock	Y
36	R96	Service Dialling Numbers	Y
37	R99	Extended timing advance	N
38	R98	Support of SoLSA	N
39	R96	Audible Indication of Service Tones	N
40	Ph2	Autocalling_Cause 27 Implemented in Cat 3	N
41	R97	Support of GPRS	Y
42	R99	Support of EGPRS	N
43	R98	Support of GPRS Encryption	Y
44	Ph2	Control of Supplementary Services	Y
45	Ph2	Short message	Y
46	Ph2	Emergency calls capabilities	Y
47	R97	GPRS operation mode class A	N
48	R97	GPRS operation mode class B	Y
49	R97	GPRS operation mode class C	Y
50	R99	MS supporting SMS over GPRS	N
51	---	void	N
52	---	Void	N
53	R99	Support of ECSD	N
54	R97	GPRS test mode A	Y
55	R97	GPRS test mode B	N
56	---	EGPRS test mode	N
57	R98	Support of MS-Assisted E-OTD	N
58	R97	Non-zero value of Non_DRX_Timer	Y
59	R98	Support of MS-Based GPS	N
60	R98	Support of MS-Assisted GPS	N
61	R98	Privacy Option Supported	N
62	R99	Support of DTM/GPRS	N
63	R98	Support MS Assisted EOTD Performance for GMSK	N
64	R99	Support MS Assisted EOTD Performance for 8PSK	N
65	R99	Support of EGPRS Packet Access enhancement	N
66	---	void	N
67	R99	Support of MT SMS over GPRS	Y
68	---	void	N
69	R99	Support of DTM/EGPRS	N
70	R99	Support of Extended dynamic allocation	N
71	Rel-6	Support of GAN	N
72	Rel-4	Support of GERAN FEATURE PACKAGE 1	N
73	Rel-6	Support of Encryption A5/3	N

Table A.3: Teleservices

Item	Release	Teleservice	Supported
1	Ph2	Telephony	Y
2	Ph2	Emergency Call	Y
3	Ph2	Short Message MT/PP	Y
4	Ph2	Short Message MO/PP	Y
5	Ph2	SMS Cell Broadcast	Y
6	Ph2	Teleservice Alternate Speech and G3 fax	N
7	Ph2	Teleservice Automatic G3 fax	Y
8	R96	Voice Group Call Service (VGCS)	N
9	R96	Voice Broadcast Service (VBS)	N
10	R96	SMS description	Y

**Table A.4: Bearer Services**

Item	Release	Bearer Service	Supported
1	Ph2	Data circuit duplex async. 300 bit/s	Y
2	Ph2	Data circuit duplex async. 1 200 bit/s	Y
3	Ph2	Data circuit duplex async. 1 200/75 bit/s	Y
4	Ph2	Data circuit duplex async. 2 400 bit/s	Y
5	Ph2	Data circuit duplex async. 4 800 bit/s	Y
6	Ph2	Data circuit duplex async. 9 600 bit/s	Y
7	Ph2	Data circuit duplex sync. 1 200 bit/s	N
8	Ph2	Data circuit duplex sync. 2 400 bit/s	N
9	Ph2	Data circuit duplex sync. 4 800 bit/s	N
10	Ph2	Data circuit duplex sync. 9 600 bit/s	N
11	Ph2	PAD Access 300 bit/s	N
12	Ph2	PAD Access 1 200 bit/s	N
13	Ph2	PAD Access 1 200/75 bits/s	N
14	Ph2	PAD Access 2 400 bit/s	N
15	Ph2	PAD Access 4 800 bit/s	N
16	Ph2	PAD Access 9 600 bit/s	N
17	Ph2	Packet Access 2 400 bit/s	N
18	Ph2	Packet Access 4 800 bit/s	N
19	Ph2	Packet Access 9 600 bit/s	N
20	Ph2	Alternate Speech/Data	N
21	Ph2	Speech Followed by Data	N
22	R97	GPRS	Y
23	Rel-6	Bluetooth data rate	N
24	Rel-6	WLAN data rate	N

**Table A.5: Supplementary Services**

Prerequisite: A.25/29 -- TSPC\_AddInfo\_SS

Item	Release	Supplementary Service	Supported
1	Ph2	Calling Line Identification Presentation	Y
2	Ph2	Calling Line Identification Restriction	Y
3	Ph2	Connected Line Identification Presentation	Y
4	Ph2	Connected Line Identification Restriction	N
5	Ph2	Call Forwarding Unconditional	Y
6	Ph2	Call Forwarding on Mobile Subscriber Busy	Y
7	Ph2	Call Forwarding on No Reply	Y
8	Ph2	Call Forwarding on Mobile Subscriber Not Reachable	Y
9	Ph2	Call Waiting	Y
10	Ph2	Call Hold	Y
11	Ph2	Multi Party Service	Y
12	Ph2	Closed User Group	Y
13	Ph2	Advice of Charge (Information)	Y
14	Ph2	Advice of Charge (Charging)	Y
15	Ph2	Barring of All Outgoing Calls	Y
16	Ph2	Barring of Outgoing International Calls	Y
17	Ph2	Barring of Outgoing International Calls except those directed to the Home PLMN Country	Y
18	Ph2	Barring of All Incoming Calls	Y
19	Ph2	Barring of Incoming Calls when Roaming Outside the Home PLMN Country	Y
20	Ph2	Unstructured SS Data	Y
21	R96	enhanced Multi-Level Precedence and Pre-emption service (eMLPP)	N
22	R96	Call Deflection	N
23	R96	User-to-User signalling	Y
24	R96	Explicit Call Transfer	Y
25	R96	Implicit UUS1	N
26	R98	Sending of implicit UUS1 in the ALERTING message	N
27	R98	Sending of implicit UUS1 in the CONNECT message	N
28	R99	Follow Me	N
29	Rel-4	User-to-Dispatcher Information	N
30	Rel-4	Compressed User-to-Dispatcher	N



Item	Release	Supplementary Service	Supported
31	R97	Completion of Calls to Busy SS	N
32	R97	Completion of Calls to Busy Requests	N
33	R97	Support of Private Numbering Plan SS	N
34	R97	Support of Private Numbering Plan , Numbering Plans	N
35	R97	Name Identification SS	Y

**Table A.6: Groups for possible bearer capabilities**

Item	Release	Bearer Capability Group	Supported
1	Ph2 (R96)	Bearer Service 21(20) .. 26, unrestricted digital information transfer capability	Y
2	Ph2 (R96)	Bearer Service 21(20) .. 26, 3.1 kHz audio ex-PLMN information transfer capability	Y
3	Ph2 (R96)	Bearer Service 31(30) .. 34, unrestricted digital information transfer capability; Non-X.32 Cases (BS 31 .. BS 34)	N
4	Ph2 (R96)	Bearer Service 31(30) .. 34, unrestricted digital information transfer capability; X.32 Cases	N
5	Ph2 (R96)	Bearer Service 31(30) .. 34, 3.1 kHz audio ex-PLMN information transfer capability; Non-X.32 Cases	N
6	Ph2 (R96)	Bearer Service 31(30) .. 34, 3.1 kHz audio ex-PLMN information transfer capability; X.32 Cases	N
7	Ph2 (R96)	Bearer Service 41(40)..46, PAD Access Asynchronous	N
8	Ph2 (R96)	Bearer Service 51(50)..53, Data Packet Duplex Synchronous	N
9	Ph2	Bearer Service 61, Alternate Speech/Data, "Speech"	N
10	Ph2	Bearer Service 61, Alternate Speech/Data, 3.1 kHz audio ex-PLMN information transfer capability; Asynchronous	N
11	Ph2	Bearer Service 61, Alternate Speech/Data, 3.1 kHz audio ex-PLMN information transfer capability; Synchronous	N
12	Ph2	Bearer Service 81, Speech followed by Data, "Speech"	N
13	Ph2	Bearer Service 81, Speech followed by Data, 3.1 kHz audio ex-PLMN information transfer capability; Asynchronous	N
14	Ph2	Bearer Service 81, Speech followed by Data, 3.1 kHz audio ex-PLMN information transfer capability; Synchronous	N
15	Ph2	Teleservice 11..12, Speech	Y
16	Ph2	Teleservice 61, Alternate Speech and Facsimile group 3; "Speech"	N
17	Ph2	Teleservice 61, Alternate Speech and Facsimile group 3; Facsimile group 3	N
18	Ph2	Teleservice 62, Automatic Facsimile group 3	Y

**Table A.7: Bearer Service 20..26, UDI /RDI**

Prerequisite: A.6/1 -- TSPC\_BS2x\_UDI

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
1	Ph2	Signalling Access Protocol (SAP)	I.440	Y
			X.28nond	Y
2	Ph2	Connection Element (CE)	NT	Y
			bothNT	Y
			T	Y
			bothT	Y
3	Ph2	User Info Layer 2 Protocol (UIL2P)	ISO6429	Y
			COPnoFICt	Y
			NAV	Y
4	Ph2	Number of Data Bits(NDB)	7 bits	Y
			8 bits	Y
5	Ph2	Parity Information (NPB)	odd	Y
			even	Y
			0	Y
			1	Y
			none	Y
6	Ph2	Number of Stop Bits (NSB)	1 bit	Y
			2 bits	Y
7	Ph2	Radio Channel Requirement (RCR)	dualHR	Y
			FR	Y
			dualFR	Y
8	Ph2	Intermediate Rate (IR)	8 kbps	Y
			16 kbps	Y

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
9	Ph2	User Rate (UR)	0.3	Y
			1.2	Y
			2.4	Y
			4.8	Y
			9.6	Y
			1.2/0.075	Y
10	R96	Fixed Network User Rate (FNUR)	9.6	Y
			14.4	Y
			19.2	Y
			28.8	Y
			38.4	Y
			48	Y
			56	Y
			NAV	Y
			NAV	Y
11	R96	Wanted Air Interface User Rate (WAIUR)	9.6	Y
			14.4	Y
			19.2	Y
			28.8	Y
			38.4	Y
			43.2	Y
			57.6	Y
			NAV	Y
12	R96	User Initiated Modification Indication (UIMI)	not req.	Y
			upto1	Y
			upto2	Y
			upto3	Y
			upto4	Y
			NAV	Y
13	R96	Maximum number of Traffic Channels (MaxNumTCH)	1	Y
			2	Y
			3	Y
			4	Y
			NAV	Y
10a	---	all allowed combinations according to GSM 07.01 B.1.2.1 (3GPP TS 27.001) implemented (if not, provide detailed description)	N	

**Table A.8: Bearer Service 20..26, 3.1 kHz**

Prerequisite: A.6/2 -- TSPC\_BS2x\_31kHz

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
1	Ph2	Signalling Access Protocol (SAP)	I.440	Y
			X.28nond	Y
2	Ph2	Connection Element (CE)	NT	Y
			bothNT	Y
			T	Y
			bothT	Y
3	Ph2	User Info Layer 2 Protocol (UIL2P)	ISO6429	Y
			COPnoFICt	Y
			NAV	Y
4	Ph2	Number of Data Bits (NDB)	7 bits	Y
			8 bits	Y
5	Ph2	Parity Information (NPB)	odd	Y
			even	Y
			0	Y
			1	Y
			none	Y
			NAV	Y
6	Ph2	Number of Stop Bits (NSB)	1 bit	Y
			2 bits	Y
7	Ph2	Radio Channel Requirement (RCR)	dualHR	Y
			FR	Y
			dualFR	Y

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
8	Ph2	Intermediate Rate (IR)	8 kbps	Y
			16 kbps	Y
9	Ph2	User Rate (UR)	0.3	Y
			1.2	Y
			2.4	Y
			4.8	Y
			9.6	Y
			1.2/0.075	Y
10	Ph2	Modem Type (MT)	V.21	Y
			V.22	Y
			V.22bis	Y
			V.26ter	Y
			V.32	Y
			V.23	Y
			auto	Y
11	R96	Fixed Network User Rate (FNUR)	9.6	Y
			14.4	Y
			19.2	Y
			28.8	Y
			NAV	Y
12	R96	Wanted Air Interface User Rate (WAIUR)	9.6	Y
			14.4	Y
			19.2	Y
			28.8	Y
			38.4	Y
13	R96	Acceptable channel codings (ACC)	4.8	Y
			9.6	Y
			14.4	Y
			NAV	Y
14	R96	User Initiated Modification Indication (UIMI)	not req.	Y
			upto1	Y
			upto2	Y
			upto3	Y
			upto4	Y
15	R96	Maximum number of Traffic Channels (MaxNumTCH)	1	Y
			2	Y
			3	Y
			4	Y
			NAV	Y
11a	---	all allowed combinations according to 3GPP TS 07.01 B.1.2.2 (3GPP TS 27.001) implemented (if not, provide detailed description)	N	

**Table A.9: Bearer Service 30..34, UDI, Non-X.32**

Prerequisite: A.6/3 -- TSPC\_BS3x\_UDI\_nonX32

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
1	Ph2	Signalling Access Protocol (SAP)	I.440	N
			X.21	N
2	Ph2	Radio Channel Requirement (RCR)	dualHR	N
			FR	N
			dualFR	N
3	Ph2	Intermediate Rate (IR)	8 kbps	N
			16 kbps	N
4	Ph2	User Rate (UR)	1.2	N
			2.4	N
			4.8	N
			9.6	N

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
5	R96	Fixed Network User Rate (FNUR)	9.6	N
			14.4	N
			19.2	N
			28.8	N
			38.4	N
			48	N
			56	N
6	R96	Acceptable channel codings (ACC)	NAV	N
			4.8	N
			9.6	N
			14.4	N
7	R96	Maximum number of Traffic Channels (MaxNumTCH)	NAV	N
			1	N
			2	N
			3	N
			4	N
5a	---	all allowed combinations according 3GPP TS 07.01 A2 1.3.1.1 (3GPP TS 27.001) implemented (if not, provide detailed description)	N	

**Table A.10: Bearer Service 30..34, UDI, X-32**

Prerequisite: A.6/4 -- TSPC\_BS3x\_UDI\_X32

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
1	Ph2	Radio Channel Requirement (RCR)	dualHR	N
			FR	N
			dualFR	N
2	Ph2	Intermediate Rate (IR)	8 kbps	N
			16 kbps	N
3	Ph2	User Rate (UR)	2.4	N
			4.8	N
			9.6	N
4	Ph2 (R96)	User Info Layer 2 Protocol (UIL2P)	X.25	N
			(X.75)	N
5	Ph2 (R96)	Rate Adaptation (RA)	X.31Flag	N
			(V.120)	N
6	R96	Fixed Network User Rate (FNUR)	9.6	N
			14.4	N
			19.2	N
			28.8	N
			38.4	N
			48	N
			56	N
			NAV	N
7	R96	Wanted Air Interface User Rate (WAIUR)	9.6	N
			14.4	N
			19.2	N
			28.8	N
			38.4	N
			43.2	N
			57	N
8	R96	User Initiated Modification Indication (UIMI)	NAV	N
			not req.	N
			upto1	N
			upto2	N
			upto3	N
			upto4	N
NAV	N			

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
9	R96	Acceptable channel codings (ACC)	4.8	N
			9.6	N
			14.4	N
			NAV	N
10	R96	Maximum number of Traffic Channels (MaxNumTCH)	1	N
			2	N
			3	N
			4	N
			NAV	N
4a	---	all allowed combinations according to 3GPP TS 07.01 B.1.3.1.2 (3GPP TS 27.001) implemented (if not, provide detailed description)	N	

**Table A.10a: Bearer Service 30..34, UDI, 48 kbps and 56 kbps bit transparent**

Prerequisite: A.6/4 -- TSPC\_BS3x\_UDI\_X32

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
1	Ph2	Signalling Access Protocol (SAP)	I.440	N
			X.21	N
2	R96	Fixed Network User Rate (FNUR)	48	N
			56	N
3	---	all allowed combinations according to 3GPP TS 07.01 B.1.3.1.4 (3GPP TS 27.001) implemented (if not, provide detailed description)	N	

**Table A.10b: Bearer Service 30..34, UDI, 64 kbps bit transparent**

Prerequisite: A.6/4 -- TSPC\_BS3x\_UDI\_X32

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
1	Ph2	Signalling Access Protocol (SAP)	I.440	N
			X.21	N
2	R96	Acceptable channel codings (ACC)	9.6	N
			14.4	N
			5	N
3	R96	Maximum number of Traffic Channels (MaxNumTCH)	6	N
			6	N
4	---	all allowed combinations according to 3GPP TS 07.01 B.1.3.1.5 (3GPP TS 27.001) implemented (if not, provide detailed description)	N	

**Table A.11: Bearer Service 30..34, 3.1 kHz, Non-X-32**

Prerequisite: A.6/5 -- TSPC\_BS3x\_31kHz\_nonX32

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
1	Ph2	Radio Channel Requirement (RCR)	dualHR	N
			FR	N
			dualFR	N
2	Ph2	Intermediate Rate (IR)	8 kbps	N
			16 kbps	N
3	Ph2	User Rate (UR)	1.2	N
			2.4	N
			4.8	N
			9.6	N
4	Ph2	Modem Type (MT)	V.22	N
			V.22bis	N
			V.26ter	N
			V.32	N
5	R96	Other Modem Type (OMT)	no other	N
			MT	N
			V.34	N
			NAV	N

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
6	R96	Fixed Network User Rate (FNUR)	9.6	N
			14.4	N
			19.2	N
			28.8	N
			NAV	N
7	R96	Acceptable channel codings (ACC)	4.8	N
			9.6	N
			14.4	N
			NAV	N
8	R96	Maximum number of Traffic Channels (MaxNumTCH)	1	N
			2	N
			3	N
			4	N
			NAV	N
5a	---	all allowed combinations according to 3GPP TS 07.01 B.1.3.2.1 (3GPP TS 27.001) implemented (if not, provide detailed description)	N	

**Table A.12: Bearer Service 30..34, 3.1kHz, X-32**

Prerequisite: A.6/6 -- TSPC\_BS3x\_31kHz\_X32

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
1	Ph2	Connection Element (CE)	NT	N
			bothNT	N
			T	N
			bothT	N
2	Ph2	Radio Channel Requirement (RCR)	dualHR	N
			FR	N
			dualFR	N
3	Ph2	Intermediate Rate (IR)	8 kbps	N
			16 kbps	N
4	Ph2	User Rate (UR)	2.4	N
			4.8	N
			9.6	N
5	Ph2	Modem Type (MT)	V.22bis	N
			V.26ter	N
			V.32	N
6	R96	Other Modem Type (OMT)	no other	N
			MT	N
			V.34	N
			NAV	N
7	R96	Fixed Network User Rate (FNUR)	9.6	N
			14.4	N
			19.2	N
			28.8	N
			NAV	N
8	R96	Wanted Air Interface User Rate (WAIUR)	9.6	N
			14.4	N
			19.2	N
			28.8	N
			NAV	N
9	R96	Acceptable channel codings (ACC)	4.8	N
			9.6	N
			14.4	N
			NAV	N
10	R96	User Initiated Modification Indication (UIMI)	not req.	N
			upto1	N
			upto2	N
			upto3	N
			upto4	N
			NAV	N

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
11	R96	Maximum number of Traffic Channels (MaxNumTCH)	1	N
			2	N
			3	N
			4	N
			NAV	N
6a	---	all allowed combinations according to 3GPP TS 07.01 B.1.3.2.2 (3GPP TS 27.001) implemented (if not, provide detailed description)	N	

**Table A.13: Bearer Service 40..46, PAD Access**

Prerequisite: A.6/7 -- TSPC\_BS4x\_PAD

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
1	Ph2	Connection Element (CE)	NT	N
			bothNT	N
			T	N
			bothT	N
2	Ph2	User Info Layer 2 Protocol (UIL2P)	ISO6429	N
			COPnoFICt	N
			NAV	N
3	Ph2	Number of Data Bits(NDB)	7 bits	N
			8 bits	N
4	Ph2	Parity Information (NPB)	odd	N
			even	N
			0	N
			1	N
			none	N
5	Ph2	Number of Stop Bits (NSB)	1 bit	N
			2 bits	N
6	Ph2	Radio Channel Requirement (RCR)	dualHR	N
			FR	N
			dualFR	N
7	Ph2	Intermediate Rate (IR)	8 kbps	N
			16 kbps	N
8	Ph2	User Rate (UR)	0.3	N
			1.2	N
			2.4	N
			4.8	N
			9.6	N
			1.2/0.075	N
9	R96	Fixed Network User Rate (FNUR)	9.6	N
			14.4	N
			19.2	N
			28.8	N
			38.4	N
			48	N
			56	N
NAV	N			
10	R96	Wanted Air Interface User Rate (WAIUR)	9.6	N
			14.4	N
			19.2	N
			28.8	N
			38.4	N
			43.2	N
			57.6	N
NAV	N			
11	R96	Acceptable channel codings (ACC)	4.8	N
			9.6	N
			14.4	N
			NAV	N

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
12	R96	User Initiated Modification Indication (UIMI)	not req.	N
			upto1	N
			upto2	N
			upto3	N
			upto4	N
			NAV	N
13	R96	Maximum number of Traffic Channels (MaxNumTCH)	1	N
			2	N
			3	N
			4	N
			NAV	N
9a	---	all allowed combinations according to 3GPP TS 07.01 B.1.4 (3GPP TS 27.001) implemented (if not, provide detailed description)	N	

**Table A.14: Bearer Service 50..53, Data Packet Duplex Synchronous**

Prerequisite: A.6/8 -- TSPC\_BS5x\_Packet

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
1	Ph2	Radio Channel Requirement (RCR)	dualHR	N
			FR	N
			dualFR	N
2	Ph2	Intermediate Rate (IR)	8 kbps	N
			16 kbps	N
3	Ph2	User Rate (UR)	0.3	N
			1.2	N
			2.4	N
			4.8	N
			9.6	N
			1.2/0.075	N
4	R96	Fixed Network User Rate (FNUR)	9.6	N
			14.4	N
			19.2	N
			28.8	N
			38.4	N
			48	N
			56	N
			NAV	N
5	R96	Wanted Air Interface User Rate (WAIUR)	9.6	N
			14.4	N
			19.2	N
			28.8	N
			38.4	N
			43.2	N
			57.6	N
NAV	N			
6	R96	Acceptable channel codings (ACC)	4.8	N
			9.6	N
			14.4	N
			NAV	N
7	R96	User Initiated Modification Indication (UIMI)	not req.	N
			upto1	N
			upto2	N
			upto3	N
			upto4	N
			NAV	N
8	R96	Maximum number of Traffic Channels (MaxNumTCH)	1	N
			2	N
			3	N
			4	N
			NAV	N
4a	---	all allowed combinations according to 3GPP TS 07.01 B.1.5 (3GPP TS 27.001) implemented (if not, provide detailed description)	N	



**Table A.15: Bearer Service 61, Alternate Speech/Data, "Speech"**

Prerequisite: A.6/9 -- TSPC\_BS61\_Speech

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
1	Ph2	Radio Channel Requirement (RCR)	dualHR	N
			FR	N
			dualFR	N

**Table A.16: Bearer Service 61, Alternate Speech/Data, 3.1kHz,**

Prerequisite: A.6/10 -- TSPC\_BS61\_31kHz\_Async

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
1	Ph2	Connection Element (CE)	NT	N
			bothNT	N
			T	N
			bothT	N
2	Ph2	User Info Layer 2 Protocol (UIL2P)	ISO6429	N
			COPnoFICt	N
			NAV	N
3	Ph2	Number of Data Bits (NDB)	7 bits	N
			8 bits	N
4	Ph2	Parity Information (NPB)	odd	N
			even	N
			0	N
			1	N
			none	N
5	Ph2	Number of Stop Bits (NSB)	1 bit	N
			2 bits	N
6	Ph2	Radio Channel Requirement (RCR)	dualHR	N
			FR	N
			dualFR	N
7	Ph2	Intermediate Rate (IR)	8 kbps	N
			16 kbps	N
8	Ph2	User Rate (UR)	0.3	N
			1.2	N
			2.4	N
			4.8	N
			9.6	N
9	R96	Modem Type (MT)	1.2/0.075	N
			V.21	N
			V.22	N
			V.22bis	N
			V.26ter	N
			V.32	N
10	---	all allowed combinations according to 3GPP TS 07.01 B.1.6.2.1 (3GPP TS 27.001) implemented (if not, provide detailed description)	V.23	N
			auto1	N
			N	

**Table A.17: Bearer Service 61, Alternate Speech/Data, 3.1kHz,**

Prerequisite: A.6/11 -- TSPC\_BS61\_31kHz\_Sync

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
1	Ph2	Radio Channel Requirement (RCR)	dualHR	N
			FR	N
			dualFR	N
2	Ph2	Intermediate Rate (IR)	8 kbps	N
			16 kbps	N
3	Ph2	User Rate (UR)	1.2	N
			2.4	N
			4.8	N
			9.6	N
4	R96	Modem Type (MT)	V.22	N
			V.22bis	N
			V.26ter	N
			V.32	N
5	---	all allowed combinations according to 3GPP TS 07.01 B.1.6.2.2 (3GPP TS 27.001) implemented (if not, provide detailed description)	N	

**Table A.18: Bearer Service 81, Speech followed by Data, "Speech"**

Prerequisite: A.6/12 -- TSPC\_BS81\_Speech

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
1	Ph2	Radio Channel Requirement (RCR)	dualHR	N
			FR	N
			dualFR	N

**Table A.19: Bearer Service 81, Speech followed by Data, 3.1kHz, Async**

Prerequisite: A.6/13 -- TSPC\_BS81\_31kHz\_Async

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
1	Ph2	Connection Element (CE)	NT	N
			bothNT	N
			T	N
			bothT	N
2	Ph2	User Info Layer 2 Protocol (UIL2P)	ISO6429	N
			COPnoFICt	N
			NAV	N
3	Ph2	Number of Data Bits(NDB)	7 bits	N
			8 bits	N
4	Ph2	Parity Information (NPB)	odd	N
			even	N
			0	N
			1	N
			none	N
5	Ph2	Number of Stop Bits (NSB)	1 bit	N
			2 bits	N
6	Ph2	Radio Channel Requirement (RCR)	dualHR	N
			FR	N
			dualFR	N
7	Ph2	Intermediate Rate (IR)	8 kbps	N
			16 kbps	N

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
8	Ph2	User Rate (UR)	0.3	N
			1.2	N
			2.4	N
			4.8	N
			9.6	N
			1.2/0.075	N
9	R96	Modem Type (MT)	V.21	N
			V.22	N
			V.22bis	N
			V.26ter	N
			V.32	N
			V.23	N
10	---	all allowed combinations according to 3GPP TS 07.01 B.1.7.2.1 (3GPP TS 27.001) implemented (if not, provide detailed description)	N	

**Table A.20: Bearer Service 81, Speech followed by Data, 3.1kHz, Sync**

Prerequisite: A.6/14 -- TSPC\_BS81\_31kHz\_Sync

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
1	Ph2	Radio Channel Requirement (RCR)	dualHR	N
			FR	N
			dualFR	N
2	Ph2	Intermediate Rate (IR)	8 kbps	N
			16 kbps	N
3	Ph2	User Rate (UR)	1.2	N
			2.4	N
			4.8	N
			9.6	N
4	R96	Modem Type (MT)	V.22	N
			V.22bis	N
			V.26ter	N
			V.32	N
5	---	all allowed combinations according 3GPP TS 07.01 B.1.7.2.2 (3GPP TS 27.001) implemented (if not, provide detailed description)	N	

**Table A.21: Teleservice 11..12, Speech**

Prerequisite: A.6/15 -- TSPC\_TS1x\_Speech

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
1	Ph2	Radio Channel Requirement (RCR)	dualHR	Y
			FR	Y
			dualFR	Y

**Table A.22: Alternate Speech and Facsimile group 3, Speech**

Prerequisite: A.6/16 -- TSPC\_TS61\_Speech

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
1	Ph2	Radio Channel Requirement (RCR)	dualHR	N
			FR	N
			dualFR	N

**Table A.23: Alternate Speech and Facsimile group 3, Facsimile**

Prerequisite: A.6/17 -- TSPC\_TS61\_G3FAX

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
1	Ph2	Connection Element (CE)	NT	N
			bothNT	N
			T	N
			bothT	N
2	Ph2	User Info Layer 2 Protocol (UIL2P)	X.25	N
			NAV	N
3	Ph2	Intermediate Rate (IR)	8 kbps	N
			16 kbps	N
4	Ph2	User Rate (UR)	2.4	N
			4.8	N
			9.6	N
5	---	all allowed combinations according 3GPP TS 07.01 B.1.10.2 (3GPP TS 27.001) implemented (if not, provide detailed description)	N	

**Table A.24: Teleservice 62, Automatic G3 fax**

Prerequisite: A.3/7 -- TSPC\_Serv\_TS62

Item	Release	Bearer Capability Elements	Values	
			Allowed	Supported
1	Ph2	Connection Element (CE)	NT	N
			bothNT	N
			T	Y
			bothT	Y
2	Ph2	User Info Layer 2 Protocol (UIL2P)	X.25	Y
			NAV	Y
3	Ph2	Intermediate Rate (IR)	8 kbps	Y
			16 kbps	Y
4	Ph2	User Rate (UR)	2.4	Y
			4.8	Y
			9.6	Y
5	---	all allowed combinations according to 3GPP TS 07.01 B.1.11 (3GPP TS 27.001, annex B) implemented (if not, provide detailed description)	Y	

**Table A.25: Additional Information**

Item	Release	Additional Information	Supported
1	Ph2	at least one half rate service	Y
2	Ph2	Speech supported for Full rate version 1 (GSM FR).	Y
3	Ph2	Speech supported for Half rate version 1 (GSM HR).	Y
4	Ph2	at least one data service	Y
5	Ph2	at least one full rate data service	Y
6	Ph2	at least one half rate data service	N
7	Ph2	at least one non transparent data service	Y
8	Ph2	at least one transparent data service	Y
9	Ph2	only transparent data service	N
10	Ph2	at least one asynchronous data service	Y
11	Ph2	at least one asynchronous non transparent data service	Y
12	Ph2	2.4 k full rate data mode	Y
13	Ph2	2.4 k half rate data mode	N
14	Ph2	4.8 k full rate data mode	Y
15	Ph2	4.8 k half rate data mode	N
16	Ph2	9.6 k full rate data mode	Y
17	Ph2	non transparent service with full rate channel at a user rate of 4.8 kbit/s	Y
18	Ph2	at least one bearer capability	Y
19	Ph2	at least one MT circuit switched basic service	Y
20	Ph2	at least one MO circuit switched basic service	Y
21	Ph2	only SDCCCH	N
22	Ph2	at least one service on traffic channel supported	Y

Item	Release	Additional Information	Supported
23	Ph2	dual rate ratio channel types (no relation to supported speech codecs).	Y
24	Ph2	only full rate radio channel type (no relation to supported speech codecs).	N
25	Ph2	at least one teleservice	Y
26	Ph2	CC protocol for at least one BC	Y
27	Ph2	only circuit switched basic service supported by the mobile is emergency call	N
28	Ph2	Fax Error Correction Mode	N
29	Ph2	at least one supplementary service	Y
30	Ph2	non call related supplementary service	Y
31	Ph2	at least one short message service	Y
32	Ph2	(SMS) reply procedure	N
33	Ph2	replace SMS	N
34	Ph2	display of received SMS	Y
35	Ph2	SMS status report capabilities	Y
36	Ph2	Storing of short messages in the SIM	Y
37	Ph2	Storing of short messages in the ME	Y
38	Ph2	detach on power down	Y
39	Ph2	detach on SIM remove	Y
40	Ph2	SIM removable without power down	Y
41	Ph2	ID-1 SIM	N
42	Ph2	Plug-In SIM	Y
43	Ph2	Disable PIN feature	Y
44	Ph2	PIN2 feature	Y
45	Ph2	Feature requiring entry of PIN2	Y
46	Ph2	Chars 0-9, *, # supported	Y
47	Ph2	A, B, C, D chars. supported	Y
48	Ph2	automatically enter automatic selection of PLMN mode	Y
49	Ph2	alerting indication to the user	Y
50	R98	Appl. Layer is always running	N
51	Ph2	Immediate connect supported for all circuit switched basic services	N
52	Ph2	In-Call modification	Y
53	Ph2	follow-on request procedure	Y
54	Ph2	refusal of call	N
55	Ph2	RF amplification	N
56	Ph2	Number of B-party number for autocalling is greater than the number of entries in the blacklist	N
57	Ph2	Handset MS supporting speech	N
58	Ph2	MT2 Configuration	Y
59	Ph2	MT2 Configuration or any other possibility to send data over Um interface	Y
60	Rel-4	Permanent Antenna Connector	Y
61	Ph2	Pseudo-synchronized handover supported	Y
62	R96	5V only SIM/ME interface	N
63	R96	3V only SIM/ME interface	Y
64	R96	3V/5V SIM/ME interface	N
65	Ph2	Speech supported for Full rate version 2 (GSM EFR).	Y
66a	Ph2	RLP supports non default parameters	Y
66b	R96	Support of listening to voice broadcast calls (VBS listening)	N
67	R96	Support of originating voice broadcast call (VBS originating)	N
68	R96	Support of listening to voice group calls (VGCS listening)	N
69	R96	Support of talking in voice group calls (VGCS talking)	N
70	R96	Support of originating voice group call (VGCS originating)	N
71	R96	Support reduced NCH monitoring	N
72	R96	14.4 k data mode	Y
73	Ph2	Implementation of cause number 27 of busy autocalling in category 2	N
74	Ph2	Implementation of cause number 27 of busy autocalling in category 3	N
75	Ph2	Support of immediate connect	N
76	Ph2	Artificial ear type 1	Y
77	Ph2	Artificial ear type 3.2, Low leak option	N
78	R96	Artificial ear type 3.4	Y
79	R98	Speech supported for Full rate version 3 (FR AMR).	N
80	R96	NCH monitoring in group receive mode	N
81	R96	NCH monitoring in group transmit mode	N
82	R96	NCH monitoring in dedicated mode	N
83	R97	Support of one PDP context activation	Y
84	R97	Support of more than one PDP context activation	N
85	R97	Support of more than one PDP context activation simultaneously on the same SAPI	N

Item	Release	Additional Information	Supported
86	R97	Support of GPRS data compression	N
87	R98	Support of GPRS header compression	Y
88	R97	Support of Network requested PDP context activation	Y
89	R97	Support for user settings of minimum QoS	Y
90	R97	Automatic GPRS attach procedure at switch-on/power-on	Y
91	R97	MMI controlled attach/detach procedures for non-GPRS services	Y
92	R97	Automatic attach procedure when MS identity cannot derived by the network	Y
93	R98	Automatic MM IMSI attach procedure at switch-on / power-on	Y
94	R96	Support of SIM Application Toolkit	Y
95	R98	1,8V only SIM/ME interface	Y
96	R98	1,8V/3V SIM/ME interface	Y
97	Ph2	Multiple SM MO/PP on same RR link	Y
98	Ph2	Support of stored list cell selection	Y
99	Ph2	at least one service not support immediate connection	Y
100	---	Void	N
101	---	Void	N
102	Ph2	EFR_EmgCallSetup message contains the bearer capability	Y
103	Ph2	Support of MonitorPCH_GroupTransmitMode	N
104	Rel-4	Integral_Antenna Connector	N
105	R97	User requested combined GPRS and non-GPRS detached without powering off	Y
106	R97	User requested non-GPRS detached	Y
107	Ph2	Artificial ear type 3.2, High leak option	N
108	R96	Artificial ear type 3.3	N
109	Ph2	Support of Multiple SMS	Y
110	R97	Cell Reselection after T3184 Expiry	N
111	R97	GPRS attach attempted automatically due to outstanding request	Y
112	R98	Speech supported for Half rate version 3 (HR AMR)	N
113	Rel-5	AMR LoopBack Modes	N
114	R99	TTY services	Y
115	R99	Support of Secondary PDP Context Activation	N
116	Ph2	Support of MO SMS Concatenation	Y
117	Ph2	Support of MT SMS Concatenation	Y
118	R97	NITZ Supported	Y
119	R97	R97/98 MS Use of DST (Daylight Saving Time)	N
120	R97	Deletion of NITZ parameters supported	Y
121	R97	Re-attach automatically when the network commands a detach with no cause value	N
122	R98	Support of GPRS header compression algorithm type RFC 1144	Y
123	R99	Support of GPRS header compression algorithm type RFC 2507	N
124	Rel-6	Support of ROHC algorithm type RFC 3241	N
125	Rel-6	Support of ROHC algorithm type RFC 3242	N
126	Rel-6	Support of ROHC algorithm type RFC 3408	N
127	Rel-6	Support of ROHC algorithm type RFC 3095	N
128	R97	The way to trigger transferring of new user data in a different PDP context while an uplink transfer is in progress	N
129	R99	Support of DARP phase 1	N
130	R99	Support of Card Application	N
131	Rel-5	Support of GSM speech half rate version 6 (O-TCH/AHS)	N
132	R99	MS with improved receiver performance	N
133	Rel-5	Support of GSM speech full rate version 4 (O-TCH/WFS)	N
134	R97	Verification for correct repetition of new password	N
135	R99	MS using reduced interslot dynamic range in multislot configurations	N
136	Rel-5	Support of GSM speech Half rate version 4 (O-TCH/WHS)	N
137	Rel-5	Support of GSM Speech Full Rate version 5 (TCH/WFS)	N
138	Ph2	Support of overwriting the existing Class 2 SMS	N

**Table A.25.1: Additional Information (requiring values)**

Item	Release	Additional Information (requiring values)	Values	
			Allowed	Supported
1	R98	AMR C/I normalization factor (units: dB)	0...	N/A
2	R98	Loop C delay (round trip delay, in number of TDMA frames)	1...	1
3	R99	AMR C/I normalization factors (AFS, DARP) 12 values representing SS adjustment of variable normalisation factors for C/I values as stated in 14.10.3 (units: dB)	0...	N/A
4	R99	AMR C/I normalization factors (AHS, DARP) 10 values representing SS adjustment of variable normalisation factors for C/I values as stated in 14.10.4 (units: dB)	0...	N/A
5	Rel-5	O-TCH/F C/I normalisation factor (units: dB)	0...	N/A

**Table A.27: Support of UTRAN Radio Access Technology**

Prerequisite: A.1/56 -- TSPC\_Type\_UTRAN

Item	Release	Support of UTRAN Radio Access Technology	Supported
1	R99	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH	N
2	R99	Streaming / unknown / UL:14.4 DL:14.4 kbps / CS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH	N
3	R99	Streaming / unknown / UL:28.8 DL:28.8 kbps / CS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH	N
4	R99	Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH	N

# ANNEX D

of



## Partial GSM TEST REPORT

No. 504/06T05

for

Wavecom

GSM 850/900/1800/1900 Terminal Equipment

Type Q24 Plus HR codec

with

Final Hardware Version: 305

Final Software Version: Open AT® Firmware 6.57

## Photographs

This Annex consists of 3 pages

Date of Report: 2006-11-09

CETECOM is accredited  
according to  
DIN EN ISO/IEC 17025 by:



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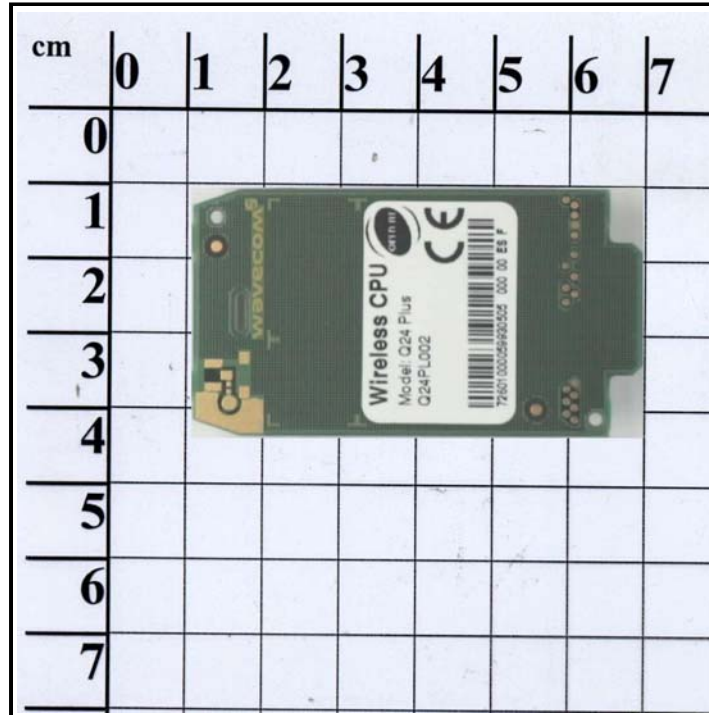
Capital: 765000 Euro, SIRET: 400 345 559 00035 (Versailles), Code APE: 742C, N° VAT: FR 52 400 345 559, Registered in VERSAILLES, France

Board of Directors: Dr. Harald Ansorge, Hans Peter May

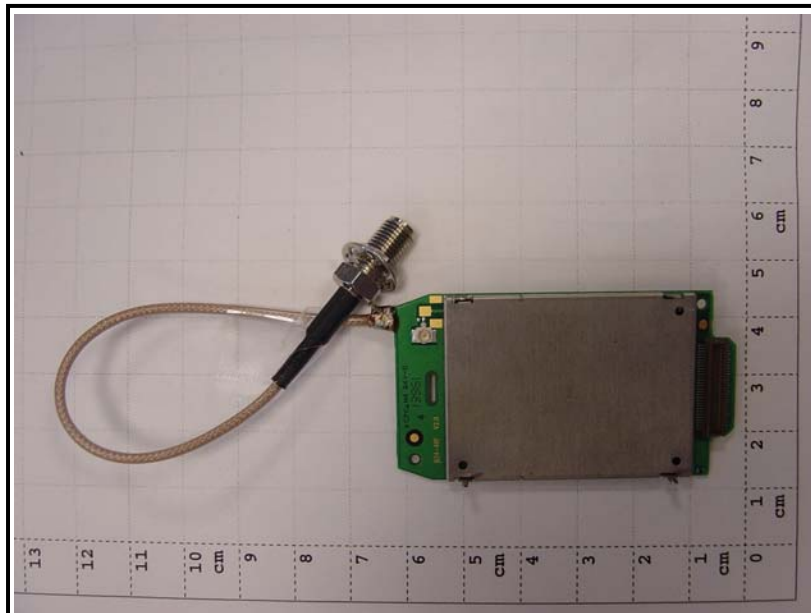


# 1. Photographs of the Equipment under Test

## 1.1 Front View of the Module



## 1.2 Rear View of the Module



### 1.3 Demo Board



# ANNEX E

of



## Partial GSM TEST REPORT

No. 504/06T05

for

Wavecom

GSM 850/900/1800/1900 Terminal Equipment

Type Q24 Plus HR codec

with

Final Hardware Version: 305

Final Software Version: Open AT® Firmware 6.57

## Detailed Test Results

This Annex consists of 8 pages

Date of Report: 2006-11-09

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Board of Directors: Dr. Harald Ansorge, Hans Peter May

## 1. General Description

This annex of the GSM Test Report includes a table with detailed test results of the Equipment under Test (EUT).

## 2. Terms used in the Test Result Table

This section defines the terms which are used in the enclosed test result table.

### 2.1 Main Terms

The following main terms are used in the test result table:

Term	Explanation
Test Case	Test case identifier of test specification 3GPP TS 51.010-1 or 3GPP TS 51.010-4 as referenced in section 4 of this Test Report.
Test Description	Name of the test case as referenced in the corresponding test specification.
Cat	Category of the related test case in the related GSM frequency band. The interpretation of the corresponding category is defined in Permanent Reference Document GCF-CC (for GSM 900 and/or GSM 1800) and/or in Annex H of Permanent Reference Document NAPRD.03 (for GSM 850 and/or GSM 1900).
Verdict	Verdict for each test case. See section 2.2 of this annex for detailed information.
Loc	If testing has been performed in subcontracted laboratories, this term identifies the testing location according to section 1 of Annex B.
Notes	Information about used test samples, special test situations, special test setups or special interpretations of the test results. See section 2.3 of this annex for detailed information.

## 2.2 Terms in Column "Verdict"

The following terms are used in the test result table to identify the verdicts of each test case in each given GSM frequency band:

Verdict	Explanation
PASS	EUT has been tested at <i>CETECOM's</i> (own or subcontracted) laboratories and is conformant to the applied standards for this test case in the given GSM frequency band.
FAIL	EUT has been tested at <i>CETECOM's</i> (own or subcontracted) laboratories but is not conformant to the applied standards for this test case in the given GSM frequency band.
Decl.	"Declaration": <i>CETECOM</i> has received documents from the client and/or manufacturer which show conformity to the applied standards for this test case in the given GSM frequency band.
PASS/Decl.	Only part of the test is "PASS" as mentioned above. For the remaining part <i>CETECOM</i> has received a declaration as under "Decl." above.
PASS/----	For not completely validated tests only the validated parts of the test are "PASS" as mentioned above.
INC.	"Inconclusive": EUT has been tested at <i>CETECOM's</i> (own or subcontracted) laboratories but the test verdict for this test case in the given GSM frequency band is ambiguous. Detailed explanation is given in the note for the corresponding test case.
N/A	"Not Applicable": According to the client's and/or manufacturer's documentation (PICS/PIXIT) this test is not applicable for the given GSM frequency band.
NO	This test has not been performed with the EUT in the given GSM frequency band and/or with the given test parameter(s) although the test may be mandatory for conformance testing.
GSM850	This test has not been performed in the given GSM frequency band but in the GSM 850 frequency band instead. The result for this test is given in the appropriate column for "GSM 850".
GSM900	This test has not been performed in the given GSM frequency band but in the GSM 900 frequency band instead. The result for this test is given in the appropriate column for "GSM 900".
GSM1800	This test has not been performed in the given GSM frequency band but in the GSM 1800 frequency band instead. The result for this test is given in the appropriate column for "GSM 1800".
GSM1900	This test has not been performed in the given GSM frequency band but in the GSM 1900 frequency band instead. The result for this test is given in the appropriate column for "GSM 1900".
----	Test is not defined or not validated for the given GSM frequency band or not used by the specific certification regime.

## **2.3 Terms in Column "Notes"**

### **2.3.1 Test Samples used for Testing**

The test result table contains **numerical notes** (e.g. "1,4,...") to identify the EUT test samples used for each performed test case.

These numerical notes directly refer to the corresponding EUT Identifier defined in section 3.3 of the Test Report (e.g. note "1,4" indicates that the given test case in the given GSM frequency band has been tested with both terminal test samples identified as EUT1 and EUT4).

### **2.3.2 Additional Reference Documents for Testing**

The test result table may also contain **numerical notes in brackets** (e.g. "[9],[14],..."). These notes directly refer to the corresponding "additional reference documents for testing" as listed in section 4.3 (table 4) of the Test Report. They indicate that these additional reference documents have been applied to the corresponding test case(s).

### **2.3.3 Special Test Situations, Test Setups and Verdict Interpretations**

The test result table may also contain **letter notes** (e.g. "A,C,...") to identify special test situations, special test setups or special interpretations for the given test case. The following letter notes are used:

Note	Explanation
A	Multiband Test Case: GSM 900/1800 environment used.

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TS 51.010-1 or TS 51.010-4 Requirement		GCF-CC (V.3.23.1) for R97/98				GCF-CC (V.3.23.1) for R97/98				NAPRD.03 (V.3.8.1) for R97/98				NAPRD.03 (V.3.8.1) for R97/98			
Test Description		GSM 900				GSM 1800				GSM 850				GSM 1900			
Test Case	Description	Cat	Verdict	Loc	Notes	Cat	Verdict	Loc	Notes	Cat	Verdict	Loc	Notes	Cat	Verdict	Loc	Notes
14.1.1.1	Bad frame indication - TCH/FS - Random RF input	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1
14.1.1.2	Bad frame indication - TCH/FS - Frequency hopping and downlink DTX	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1
14.1.2.1	Bad frame indication - TCH/HS - Random RF input	A	PASS	1.3	1	A	PASS	1.3	1	---	-----	---	---	---	-----	---	---
14.1.2.2	Bad frame indication - TCH/HS - Frequency hopping and downlink DTX	A	PASS	1.3	1	A	PASS	1.3	1	---	-----	---	---	---	-----	---	---
14.2.1	Reference Sensitivity - TCH/FS	---	-----	---	---	---	-----	---	---	---	-----	---	---	---	-----	---	---
	Normal Temperature \ Normal Voltage	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1
	Low Temperature \ Low Voltage	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1
	Low Temperature \ High Voltage	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1
	High Temperature \ Low Voltage	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1
	High Temperature \ High Voltage	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1
14.2.2	Reference Sensitivity - TCH/HS (Speech frames)	A	PASS	1.3	1,[9]	A	PASS	1.3	1,[9]	---	-----	---	---	---	-----	---	---
14.2.4	Reference Sensitivity - FACCH/H	B	PASS/----	1.3	1	B	PASS/----	1.3	1	B	PASS/----	1.3	1,[15],[16]	B	PASS/----	1.3	1,[15],[16]
14.4.5	Co-channel rejection - FACCH/H	B	PASS/----	1.3	1	B	PASS/----	1.3	1	B	PASS/----	1.3	1,[13],[15],[16]	B	PASS/----	1.3	1,[13],[15],[16]
20.20.1	Multiband cell selection and reselection / Cell selection	A	PASS	1.3	1,A	A	PASS	1.3	1,A	---	-----	---	---	---	-----	---	---
20.20.2	Multiband cell selection and reselection / Cell reselection	A	PASS	1.3	1,A	A	PASS	1.3	1,A	---	-----	---	---	---	-----	---	---
21.3.1	Signal quality under static conditions - TCH/FS	A	PASS	1.3	1	A	PASS	1.3	1,[7],[10]	A	PASS	1.3	1,[17]	A	PASS	1.3	1,[17]
21.3.2	Signal quality under static conditions - TCH/HS	A	PASS	1.3	1	A	PASS	1.3	1	---	-----	---	---	---	-----	---	---
25.2.1.1.1	Initialization when contention resolution required - Normal initialization	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	B	PASS/----	1.3	1
25.2.1.1.2.1	Initialization failure - Loss of UA frame	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	B	PASS/----	1.3	1
25.2.1.1.2.2	Initialization failure - UA frame with different information field	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	B	PASS/----	1.3	1
25.2.1.1.2.3	Initialization failure - Information frame and supervisory frames in response to an SABM frame	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	B	PASS/----	1.3	1
25.2.1.1.3	Initialization failure - Initialization Denial	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	B	PASS/----	1.3	1

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TS 51.010-1 or TS 51.010-4 Requirement		GCF-CC (V.3.23.1) for R97/98				GCF-CC (V.3.23.1) for R97/98				NAPRD.03 (V.3.8.1) for R97/98				NAPRD.03 (V.3.8.1) for R97/98			
Test Description		GSM 900				GSM 1800				GSM 850				GSM 1900			
Test Case	Description	Cat	Verdict	Loc	Notes	Cat	Verdict	Loc	Notes	Cat	Verdict	Loc	Notes	Cat	Verdict	Loc	Notes
25.2.1.1.4	Initialization failure - Total Initialization failure	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	B	PASS/----	1.3	1
25.2.1.2.1	Initialization, contention resolution not required - Normal initialization without contention resolution	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	B	PASS/----	1.3	1
25.2.1.2.2	Initialization, contention resolution not required - Initialization failure	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	B	PASS/----	1.3	1
25.2.1.2.3	Initialization, contention resolution not required - Initialization Denial	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	B	PASS/----	1.3	1
25.2.1.2.4	Initialization, contention resolution not required - Total Initialization failure	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	B	PASS/----	1.3	1
25.2.2.1	Normal Information Transfer - Sequence counting and I frame acknowledgements	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	B	PASS/----	1.3	1
25.2.2.2	Normal Information Transfer - Receipt of an I frame in the timer recovery state	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	B	PASS/----	1.3	1
25.2.2.3	Normal Information Transfer - Segmentation and concatenation	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	B	PASS/----	1.3	1
25.2.3	Normal layer 2 disconnection	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	B	PASS/----	1.3	1
25.2.4.3	Test of link failure - RR response frame loss (MS to SS)	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	B	PASS/----	1.3	1
25.2.5.1	Test of frame transmission with incorrect C/R values - I frame with C bit set to Zero	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	B	PASS/----	1.3	1
25.2.5.2	Test of frame transmission with incorrect C/R values - SABM frame with C bit set to Zero	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	B	PASS/----	1.3	1
25.2.6.1	Test of errors in the control field - N(S) sequence error	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	B	PASS/----	1.3	1
25.2.6.2	Test of errors in the control field - N(R) sequence error	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	B	PASS/----	1.3	1
25.2.7	Test of receipt of invalid frames	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	B	PASS/----	1.3	1
26.2.4 p2	Establishment cause / pr2 (TCH/H)	A	PASS	1.3	1	A	GSM 900	---	---	---	-----	---	---	---	-----	---	---
26.6.4.1	Dedicated assignment / successful case	A	PASS	1.3	1,[11]	A	PASS	1.3	1,[11]	N	-----	---	---	A	PASS	1.3	1,[12]
26.6.5.1-4	Handover / successful / active call / non-synchronized / M = 4	A	PASS	1.3	1	A	PASS	1.3	1	N	-----	---	---	N	-----	---	---
26.6.5.1-5	Handover / successful / active call / non-synchronized / M = 5	A	PASS	1.3	1	A	PASS	1.3	1	N	-----	---	---	N	-----	---	---
26.6.5.1-6	Handover / successful / active call / non-synchronized / M = 6	A	PASS	1.3	1	A	PASS	1.3	1	N	-----	---	---	N	-----	---	---
26.6.5.1-7	Handover / successful / active call / non-synchronized / M = 7	A	PASS	1.3	1	A	PASS	1.3	1	N	-----	---	---	N	-----	---	---
26.6.5.1-8	Handover / successful / active call / non-synchronized / M = 8	A	PASS	1.3	1	A	PASS	1.3	1	N	-----	---	---	N	-----	---	---



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		GSM 900				GSM 1800				GSM 850				GSM 1900			
Test Case	Test Description	Cat	Verdict	Loc	Notes	Cat	Verdict	Loc	Notes	Cat	Verdict	Loc	Notes	Cat	Verdict	Loc	Notes
26.6.5.2-2	Handover/successful/call under establishment/non-synchronized/M = 2	A	PASS	1.3	1	A	PASS	1.3	1	N	-----	---	---	N	-----	---	---
26.6.5.2-5	Handover/successful/call under establishment/non-synchronized/M = 5	A	PASS	1.3	1	A	PASS	1.3	1	N	-----	---	---	N	-----	---	---
26.6.5.2-6	Handover/successful/call under establishment/non-synchronized/M = 6	A	PASS	1.3	1	A	PASS	1.3	1	N	-----	---	---	N	-----	---	---
26.6.5.2-10	Handover/successful/call under establishment/non-synchronized/M = 10	A	PASS	1.3	1	A	PASS	1.3	1	N	-----	---	---	N	-----	---	---
26.6.5.3-2	Handover / successful / active call / finely-synchronized / M = 2	A	PASS	1.3	1	A	PASS	1.3	1	N	-----	---	---	N	-----	---	---
26.6.6.1	Frequency redefinition	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1
26.6.7.2	Test of the channel mode modify procedure / half rate	A	PASS	1.3	1,[8]	A	PASS	1.3	1,[8]	A	PASS	1.3	1	A	PASS	1.3	1
26.6.12.3	Channel release / TCH-F	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1
26.6.12.4	Channel release / TCH-F - no L2 ACK	A	PASS	1.1	1	A	PASS	1.1	1	A	PASS	1.1	1	A	PASS	1.1	1
26.6.13.3	Dedicated assignment with starting time and frequency redefinition / failure case / time not elapsed	A	PASS	1.1	1	A	PASS	1.3	1	A	PASS	1.1	1	A	PASS	1.1	1
26.6.13.6	Handover with starting time / successful case / time elapsed	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.1	1	A	PASS	1.1	1
26.6.13.9	Immediate assignment with starting time / successful case / time not elapsed	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.1	1	A	PASS	1.1	1
26.6.13.10	Immediate assignment with starting time / successful case / time elapsed	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.1	1	A	PASS	1.1	1
26.9.2	Structured procedures / MS originated call / early assignment	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	A	PASS	1.1	1
26.9.3	Structured procedures / MS originated call / late assignment	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	A	PASS	1.1	1
26.9.4	Structured procedures / MS terminated call / early assignment	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	A	PASS	1.1	1
26.9.5	Structured procedures / MS terminated call / late assignment	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	A	PASS	1.1	1
26.9.6.1.1	Structured procedures / emergency call / idle updated / preferred channel rate	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1,[14]	A	PASS	1.3	1,[14]
26.9.6.1.2	Structured procedures / emergency call / idle updated / non-preferred channel rate	A	PASS	1.3	1	A	PASS	1.3	1	---	-----	---	---	---	-----	---	---
26.9.6.2.1	Structured procedures / emergency call / idle, no IMSI / accept case	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1
26.9.6.2.2	Structured procedures / emergency call / idle, no IMSI / reject case	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1
26.10.3.1	E-GSM or R-GSM signalling/Structured procedure/Mobile originated call	A	PASS	1.3	1	N	-----	---	---	---	-----	---	---	---	-----	---	---

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Test Case	Test Description	Cat	Verdict	Loc	Notes	Cat	Verdict	Loc	Notes	Cat	Verdict	Loc	Notes	Cat	Verdict	Loc	Notes
26.12.1	EFR signalling / test of the channel mode modify procedure	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1
26.12.2.1	EFR signalling/Handover/active call/successful case	A	PASS	1.3	1	A	PASS	1.3	1	P	-----	---	---	A	PASS	1.3	1
26.12.3	EFR signalling / Structured procedures / MS originated call / late assignment	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	A	PASS	1.3	1
26.12.4	EFR signalling / Structured procedures / MS terminated call / early assignment	A	GSM 1900	---	---	A	GSM 1900	---	---	N	-----	---	---	A	PASS	1.3	1
26.12.5	EFR signalling / Structured procedures / emergency call	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1	A	PASS	1.3	1
32.11	Intra cell channel change from TCH/HS to TCH/FS	A	PASS	1.3	1	A	PASS	1.3	1	---	-----	---	---	---	-----	---	---
32.12	Intra cell channel change from TCH/FS to TCH/HS	A	PASS	1.3	1	A	PASS	1.3	1	---	-----	---	---	---	-----	---	---

Please refer to GSM Test Report Annex E section 2 for detailed information of the used terms and notes.