

Total Access Communication System (T.A.C.S.) —

**Part 2: Specification for performance
and tests of the signalling system of
mobile stations**

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- British Telecom
- Department of Trade and Industry — Radiocommunications Division
- Institution of Electronic and Radio Engineers
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- GAMBICA (BEAMA Ltd)
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Foreword

This Part 2 of BS 6940 has been prepared under the direction of the Electronic Equipment Standards Policy Committee. BS 6940 specifies the performance requirements for mobile stations operating with land stations within the Total Access Communication System (T.A.C.S.) and also gives requirements both for information to be provided with the system and labelling. This ensures that the mobile station is compatible with the United Kingdom Total Access Communication System Mobile Station — Land Station Compatibility Specification issue 3 as amended by amendment No. 3 and the British Approvals Board for Telecommunications (BABT) Specification for the Type Approval of Terminal Equipment for use in the T.A.C.S., reference BABT/SITS/84/13/A. Issue 1 as amended by amendment No. 8.

T.A.C.S. provides mobile telephone users with high quality telecommunications anywhere within its service area. It provides communications on a cellular basis providing facilities for the transfer of a mobile station (MS) from one cell to another as required to maintain communication throughout the service area of the T.A.C.S.

This specification is one of a two-Part British Standard for T.A.C.S. The other Part is:

— *Part 1: Specification for performance requirements for mobile stations.*

Attention is drawn to the fact that products conforming to this British Standard must be certified by the British Approvals Board for Telecommunications under Section 22(2) of the Telecommunications Act 1984. This standard is the type approval specification covering the minimum performance requirements that BABT will apply in satisfying the Secretary of State.

Attention is also drawn to the need to comply with the Department of Trade and Industry Performance Specification MPT 1324 “Angle modulated equipment for use at base and mobile stations in the public radiophone service operating in the 900 MHz frequency band” and with the relevant UK Health and Safety legislation.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i to vi, pages 1 to 120, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Section 1. General

1 Scope

This Part of BS 6940 specifies the signalling procedures and message formats to be used by the mobile station (MS) when establishing and maintaining communications with land stations and the responses of the MS signalling system when subjected to the specified tests. It provides information on the way in which communications are established and also on the procedures and message formats used by the land station.

NOTE 1 Appendix F provides cross-references between the clauses of this standard and those of BABS/SITS/84/13/A, issue 1, to Amendment No. 8 and UK T.A.C.S. Mobile Station-Land Station Compatibility Specification, issue 3, to amendment No. 3.

NOTE 2 References in *square* brackets relate to BS 6940-1:1990.

NOTE 3 It should be noted that this specification is not complete without reference to the appropriate text of Part 1 of this standard.

NOTE 4 The titles of the publications referred to in this standard are listed on the inside back cover.

2 Terminology

For the purposes of this British Standard, the definitions and abbreviations contained in Part 1 of this standard are applicable.

NOTE Terms and definitions that are not defined in Part 1 are defined at their first occurrence in this Part.

3 General

3.1 Information to be stored in the MS

The information to be permanently stored in the MS shall be as stated in **A.1** and other information to be stored in the MS shall be as stated in **A.2**.

3.2 Signalling protocols

The signalling protocols to be used by the MS in its communication with the land station shall be as stated in Appendix B. The signalling protocols used by the land station are stated in Appendix D.

3.3 Signalling channels

3.3.1 General. The system shall operate two types of channels, a duplex control channel and a duplex voice channel, both of which are used for signalling. System A and System B each employ 21 dedicated control channels. Each block of 21 dedicated control channels is contiguous. The lowest frequency channel number of the dedicated control channels for System A is 23 and the lowest frequency channel number for System B is 323.

3.3.2 Control channels. The “reverse” and “forward” control channels consist of a wideband data stream. The “reverse” channel has a bit rate of $8 \text{ kbit/s} \pm 1 \text{ bit/s}$ and the “forward” channel has a bit rate of $8 \text{ kbit/s} \pm 0.1 \text{ bit/s}$. The format of the reverse control channel (RECC) from the MS to the land station, and the messages sent on that channel, shall be as stated in **C.2**. The format of the forward control channel (FOCC), from the land station to the MS, and the messages sent on that channel are stated in **E.1**.

3.3.3 Voice channels. The voice channels are normally used for voice communications, but are also for signalling with a wide band data stream. The “reverse” channel has a bit rate of $8 \text{ kbit/s} \pm 1 \text{ bit/s}$ and the “forward” channel has a bit rate of $8 \text{ kbit/s} \pm 0.1 \text{ bit/s}$. The format of the reverse voice channel (REVC), from the MS to the land station, and the messages sent on that channel shall be as stated in **C.3**. The format of the forward voice channel (FOVC), from the land station to the MS, and the messages sent on that channel are stated in **E.2**.

4 Test for compliance

Compliance with the requirements specified for the MS signalling system in Appendix A and Appendix B shall be checked by the tests and the correct responses of the MS specified in clauses **10** to **63** inclusive.

Section 2. Preparation for tests

5 General

5.1 This Section 2 establishes the message formats and default values at the start of the tests of the signalling system. These default values are changed as necessary for each test but all changes are referred back to the default values specified in this Section.

Sections 3 to 10 specify the tests to be undertaken and the responses that need to be given by the MS to prove the correct compliance of the MS signalling system within the limits of the tests specified.

NOTE There can be no assurance that this specification covers every possible eventuality and combination of circumstances that could arise. Hence it cannot be assumed that a mobile station that apparently meets all the requirements and tests will always perform satisfactorily in all circumstances. It is therefore essential that the software in the mobile equipment should be carefully checked by the manufacturer to ensure compliance with the requirements of the United Kingdom Total Access Mobile Station — Land Station Compatibility Specification, parts of which are given in the Appendices of this Standard.

5.2 Unless otherwise specified it is to be assumed that the BSS performs the following functions.

- a) Parity data sent to the MS is set correctly as defined in **E.1** and **E.2**. Where messages are received from the MS, the repeats of any words are identical, and the parity correctly set (see **C.2** and **C.3**).
- b) The data sent by the BSS to the MS on control channels is sent on the correct interleaved stream **E.1**. The other stream contains unrecognizable data, e.g. a reserved overhead message type. The interleaved stream on which correct data is sent depends on the value of the least significant bit of the MIN_p of the MS.
- c) The busy/idle bits sent by the BSS on the control channels are set as described in **D.4.2**.
- d) The number of additional words coming (NAWC) field of overhead messages sent by the BSS is set correctly according to the number of overhead words which follow in the overhead message train, **E.1.3**. Similarly, the end indicator (END) field is set appropriately.
- e) Before each test, the BSS waits 15 s during which it does not transmit. This sets the initial state of the MS prior to each test.
- f) The r.f. power level is set to RL [6.9].

NOTE The transmit power of the BSS has been quoted in dB with respect to RL [6.9] in all tests in this section. This quoted power is that which is available at the antenna terminals of the MS equipment under test. In the case of equipment with integral antenna, the BSS power level is adjusted, taking account of the coupling characteristics of the r.f. test fixture, to give an equivalent input signal level to the MS receiver.

5.3 Unless otherwise specified the MS is switched off prior to the start of each test.

6 Forward control channel format and default values

6.1 General

Unless otherwise stated data format and the default values used for each control channel word sent by the BSS in the signalling tests will be as stated in **6.2** to **6.3.19** inclusive.

6.2 Data format

Control channel data is sent on the correct interleaved stream for the MS being tested (see **E.1**). The data stream for other MS should contain unrecognizable data. The busy/idle data stream is set according to the Busy/Idle Status of the corresponding RECC (see **D.4.2**). The format is described in **E.1.1**.

The overhead message stream is constructed of a repeated series of 16 word blocks. The first two word blocks (System Parameter Overhead Message) are Overhead Word 1 and Overhead Word 2. If there is a Registration Identification Message or a Global Action Message it is added as word block no. 3 at every 10th repeat of the word block series.

If there is a Mobile Station Control Message block which is not sent as a response to a MS previous message and which consists of one, two, three or four word blocks, it is inserted as the last word block(s) of the 16 word series at each 10th repeat of the series.

The rest of the 16 word block series consists of control filler messages (between 8 and 14 messages).

Mobile station control messages, which are sent as a response to previous messages from the MS can be sent in any suitable adjacent word blocks which would otherwise have been control filler messages.

6.3 Default values

6.3.1 General. All reserve field (RSVD) bits are set to zero. The default values are given as binary except as stated.

6.3.2 Overhead word 1 (see E.1.3.2)

T1 T2	Type	default to	11
DCC	Digital colour code	default to	00
AID1	First part of the traffic area identification	default to	AID _p of the MS
NOTE Bit 0 is not present in AID1			
RSVD	Reserved	default to	all 0 (3 bits)
NAWC	The number of additional words coming	default to	The number of words in the overhead message train-1 (see E.1.3)
OHD	Overhead message type	default to	110
P	Parity	default to	Correct parity setting (see E.1.1.2)

6.3.3 Overhead word 2 (see E.1.3.2)

T1 T2	Type	default to	11
DCC	Digital colour code	default to	00
S	Serial number	default to	0
E	Extended address	default to	0
REGH	Registration field for home MS	default to	1
REGR	Registration field for roaming system	default to	1
DTX	Discontinuous transmission	default to	0
FREG	Forced registration	default to	0
N-1	Number of paging channels-1	default to	10100
RCF	Read control filler	default to	1
CPA	Combined paging/access	default to	1
CMAx-1	Number of channels to be scanned-1	default to	10100
END	End indication	default to	1 if last word in overhead message train, else 0 (see E.1.3)
OHD	Overhead message type	default to	111
P	Parity	default to	Correct parity setting (see E.1.1.2)

6.3.4 Control Filler Message (see E.1.3.5)

T1 T2	Type	default to	11
DCC	Digital colour code	default to	00
CMAC	Control mobile attenuation	default to	111
WFOM	Wait for overhead message	default to	0
OHD	Overhead message type	default to	001
P	Parity	default to	correct parity setting (see E.1.1.2)

6.3.5 Registration identification message (see E.1.3.4)

T1 T2	Type	default to	11
DCC	Digital colour code	default to	00
REGID	Registration identification	default to	16400 decimal 04010 hexadecimal
END	End indicator	default to	1
OHD	Overhead message type	default to	000
P	Parity	default to	correct parity setting (see E.1.1.2)

6.3.6 Rescan global action message (see E.1.3.3)

T1 T2	Type	default to	11
DCC	Digital colour code	default to	00
ACT	Global action	default to	0001
RSVD	Reserved	default to	all 0 (16 bits)
END	End indicator	default to	1
OHD	Overhead message type	default to	100
P	Parity	default to	correct parity setting (see E.1.1.2)

6.3.7 Registration increment global action message (see E.1.3.3)

T1 T2	Type	default to	11
DCC	Digital colour code	default to	00
ACT	Global action	default to	0010
REGINCR	Registration increment	default to	250 (decimal) OFA hexadecimal
RSVD	Reserved	default to	all 0 (4 bits)
END	End indicator	default to	1
OHD	Overhead message type	default to	100
P	Parity	default to	correct parity setting (see E.1.1.2)

6.3.8 New access channel set global action message (see E.1.3.3)

T1 T2	Type	default to	11
DCC	Digital colour code	default to	00
ACT	Global action	default to	0110
NEWACC	New access channel starting point	default to	X-22
RSVD	Reserved	default to	all 0 (5 bits)
END	End indicator	default to	1
OHD	Overhead message type	default to	100
P	Parity	default to	correct parity setting (see E.1.1.2)

NOTE Where "X" is the channel capability of the MS as defined on the MS SCM_p bit 3.

6.3.9 Overload control global action message (see E.1.3.3)

T1 T2	Type	default to	11
DCC	Digital colour code	default to	00
ACT	Global action	default to	1000
OLC(N)	Overload	default to	all 0 except OLC (MS) = 1
END	End indicator	default to	1
OHD	Overhead message type	default to	100
P	Parity	default to	correct parity setting (see E.1.1.2)

NOTE

Where (N) = 0 to 15
(MS) = $ACCOLC_p$ of MS

6.3.10 Access type parameters global action message (see E.1.3.3)

T1 T2	Type	default to	11
DDC	Digital colour code	default to	00
ACT	Global action	default to	1001
BIS	Busy/Idle Status	default to	1
RSVD	Reserved	default to	all 0 (15 bits)
END	End indicator	default to	1
OHD	Overhead message type	default to	100
P	Parity	default to	correct parity setting (see E.1.1.2)

6.3.11 Access attempt parameters global action message (see E.1.3.3)

T1 T2	Type	default to	11
DCC	Digital colour code	default to	11
ACT	Global action	default to	1010
MAXBUSY — PGR	Maximum busy occurrences (Page response)	default to	0101
MAXSZTR — PGR	Maximum seizure tries (Page response)	default to	0100
MAXBUSY — OTHER	Maximum busy occurrences (Other accesses)	default to	0011
MAXSZTR — OTHER	Maximum seizure tries (Other responses)	default to	0010
END	End indicator	default to	1
OHD	Overhead message type	default to	100
P	Parity	default to	correct parity setting (see E.1.1.2)

6.3.12 Local control 1 message (see E.1.3.3)

T1 T2	Type	default to	11
DDC	Digital colour code	default to	00
ACT	Global action	default to	1110
LOCAL CONTROL	Local control	default to	5 555 hexadecimal
END	End indicator	default to	1
OHD	Overhead message type	default to	100
P	Parity	default to	correct parity setting (see E.1.1.2)

6.3.13 Local control 2 message (see E.1.3.3)

T1 T2	Type	default to	11
DCC	Digital colour code	default to	00
ACT	Global action	default to	1111
LOCAL CONTROL	Local control	default to	5555 hexadecimal
END	End indicator	default to	1
OHD	Overhead message type	default to	100
P	Parity	default to	correct parity setting (see E.1.1.2)

6.3.14 Mobile station control message word 1 — Abbreviated address word (see E.1.2)

T1 T2	Type	default to	00 for a single word message 01 for a multiple word message
DCC	Digital colour code	default to	00
MIN1	First part of the mobile identification number	default to	$MIN1_p$ of the MS
P	Parity	default to	correct parity setting (see E.1.1.2)

6.3.15 Mobile station control message word 2 — Extended address word type A (see E.1.2)

T1 T2	Type	default to	10
SCC	SAT colour code	default to	01
MIN2	Second part of the mobile identification number	default to	$MIN2_p$ of the MS
VMAC	Voice mobile attenuation code	default to	111
CHAN	Channel number	default to	500 decimal IF4 hexadecimal
P	Parity	default to	correct parity setting (see E.1.1.2)

6.3.16 Mobile station control message word 2 — Extended address word type B (see E.1.2)

T1 T2	Type	default to	10
SCC	SAT colour code	default to	11
MIN2	Second part of the mobile identification number	default to	$MIN2_p$ of the MS
LOCAL	Local control	default to	00000
ORDQ	Order qualifier	default to	000
ORDER	Order	default to	00000
P	Parity	default to	correct parity setting (see E.1.1.2)

6.3.17 Mobile station control message word 3 — Second extended address word (see E.1.2)

T1 T2	Type	default to	10
SCC	SAT colour code	default to	01
VMAC	Voice mobile attenuation code	default to	111
CHAN	Channel number	default to	500 decimal IF4 hexadecimal
P	Parity	default to	correct parity setting (see E.1.1.2)

6.3.18 Mobile station control message word 3 — First directed-retry word (see E.1.2)

T1 T2	Type	default to	10
SCC	SAT colour code	default to	11
CHANPOS	Channel position	default to	{ 0000000 0000000 0000000
RSVD	Reserved	default to	000
P	Parity	default to	all 0

6.3.19 Mobile station control message word 4 — Second directed-retry word (see E.1.2)

T1 T2	Type	default to	10
SCC	SAT colour code	default to	11
CHANPOS	Channel position	default to	{ 0001110 0000000 0010001
RSVD	Reserved	default to	000
P	Parity	default to	all 0

7 Forward voice channel format and default values**7.1 General**

Unless otherwise stated the data format and default values used for each voice channel word sent by the BSS in the signalling tests will be as indicated in 7.2 and 7.3.

7.2 Data format

The format of Mobile Station Control Messages sent by the BSS for a specific MS on a voice channel is as described in E.2.1. SAT transmission is inhibited during sending of voice channel messages.

7.3 Default values**7.3.1 Handoff message** (see E.2.1.3)

T1 T2	Type	default to	10
SCC	SAT colour code	default to	10
PSCC	Present SAT colour code	default to	01
VMAC	Voice mobile attenuation code	default to	100
CHAN	Channel number	default to	00000101100 channel 24 (decimal) 018 hexadecimal
P	Parity	default to	correct parity setting (see E.2.1.2)

7.3.2 Order message (see E.2.1.3)

T1 T2	Type	default to	10
SCC	SAT colour code	default to	11
PSCC	Present SAT colour code	default to	01
LOCAL	Local control	default to	00000
ORDQ	Order qualifier	default to	000
ORDER	Order	default to	00001
P	Parity	default to	correct parity setting (see E.2.1.2)

8 Reverse control channel format and expected values**8.1 General**

RECC messages will be received by the BSS and the busy/idle status of the FOCC will be set according to the state of the messages (see D.4.2).

When required to send a RECC message the MS shall switch on its transmitter and having waited the correct delay so that the power is within 3 dB of the required power level (PL), shall begin to send the correct information (see C.2). Except in special cases e.g. Simulated Collision, the MS shall continue to send the entire message.

After completion of the message the MS shall send unmodulated carrier for between 20 and 30 ms and then turn off its transmitter.

The MS shall not transmit on the RECC at any other time or on any channel not specified.

Unless otherwise stated the data format and the expected values used for each control channel word sent by the MS in the signalling tests shall be as specified in 8.2 to 8.3.6 inclusive.

8.2 Data format

The format and repeat structure of RECC Messages sent by the MS shall be as described in C.2. The five repeats of each word shall be identical.

8.3 Expected values

8.3.1 Seizure precursor (see C.2) On every access attempt the MS shall send a 48 bit seizure precursor made up of:

30 bits	Bit sync	= 101010..1010
11 bits	Word sync	= 11100010010
7 bits	Coded DCC	= Corresponding to the received DCC from the BSS (see C.2 Table 4)

8.3.2 Word A, abbreviated address word (see C.2.2)

F	First word indication	shall be set to	1
NAWC	Number of additional words coming	shall be set to	the number of words in the RECC message-1
T	Type	shall be set to	0
S	Send serial number	shall be set to	0
E	Extended address	shall be set to	0
SCM	Station class mark	shall be set to	SCM of MS (see A.1.4)
MIN1	First part of the mobile identification number (see A.1.2)	shall be set to	MIN1 _p of the MS
P	Parity	shall be set to	correct parity setting (see C.2)

8.3.3 Word B, extended address word (see C.2.2)

F	First word indication	shall be set to	0
NAWC	Number of additional words coming	shall be set to	the number of words in the RECC message-2
LOCAL	Local control	shall be set to	00000
ORDQ	Order qualifier	shall be set to	000
ORDER	Order	shall be set to	00000
LT	Last try code	shall be set to	0
MIN2	Second part of mobile identity number	shall be set to	MIN2 _p of the MS
P	Parity	shall be set to	correct parity setting (see C.2)

8.3.4 Word C serial number word (see C.2.2)

F	First word indication	shall be set to	0
NAWC	Number of additional words coming	shall be set to	the number of words in the RECC message-3 if word B sent, else the number of words in the RECC message-2
SERIAL	Serial number	shall be set to	bits 31 to 0 of MS serial no.
P	Parity	shall be set to	correct parity setting (see C.2)

8.3.5 Word *D* called address word 1 (see C.2.2)

F	First word indication	shall be set to	0
NAWC	Number of additional words coming	shall be set to	0 in the last word, 1 in the penultimate, etc.
DIGIT 1 to 8	Digit	shall be set to	correct called address (see Table 5)
P	Parity	shall be set to	correct parity setting (see C.2)

8.3.6 Word *E* called address word 2 (see C.2.2)

F	First word indication	shall be set to	0
NAWC	Number of additional words coming	shall be set to	0 in the last word, 1 in the penultimate, etc.
DIGIT 9 to 16	Digit	shall be set to	correct called address (see Table 5)
P	Parity	shall be set to	correct parity setting (see C.2)

9 Reverse voice channel format and expected values**9.1 General**

Transmission of SAT (see B.1.1) shall be suspended when sending REVC messages.

Unless otherwise stated the data format and expected values used for each voice channel word sent by the MS in the signalling tests shall be as specified in 9.2 to 9.3.3 inclusive.

9.2 Data format

The format and repeat structure of REVC messages sent by the MS shall be as described in C.3. The five repeats of each word shall be identical.

9.3 Expected values**9.3.1 Order confirmation message** (see C.3.2)

F	First word indication	shall be set to	1
NAWC	Number of additional words coming	shall be set to	00
T	Type	shall be set to	1
LOCAL	Local	shall be set to	00000
ORDQ	Order qualifier	shall be set to	110
ORDER	Order	shall be set to	01011
P	Parity	shall be set to	correct parity setting (see C.3)

9.3.2 First word of the called address message (see C.3.2)

F	First word indication	shall be set to	1
NAWC	Number of additional words coming	shall be set to	01
T	Type	shall be set to	0
DIGIT 1 to 8	Digit	shall be set to	correct called address (see Table 5)
P	Parity	shall be set to	correct parity setting (see C.3)

9.3.3 *Second word of the called address message* (see C.3.2)

F	First word indication	shall be set to	0
NAWC	Number of additional words coming	shall be set to	00
T	Type	shall be set to	0
DIGIT 9 to 16	Digit	shall be set to	correct called address (see Table 5)
P	Parity	shall be set to	correct parity setting (see C.3)

Section 3. Initialisation tests, system and channel scanning

10 Enter idle from a single control channel

10.1 Description of test

The main purpose of this test is to confirm that the MS can receive a FOCC data stream on a single channel and can enter the idle task (see **B.4.4**), can read system parameter overhead messages, control filler messages and receive and respond to page messages.

10.2 Procedure

10.2.1 The BSS transmits on a single channel (channel A), which is the first channel of the dedicated control channel set of the MS preferred system i.e. channel 23 or 323.

10.2.2 On channel A the BSS sends:

- a) Overhead Word 1 (see **6.3.2**) with the exception that the AID1 field is set to AID_p of the MS with bit 3 inverted so that the MS is not roaming, but will not use its *FIRSTCHP_p*.
- b) Overhead Word 2 (see **6.3.3**).
- c) Mobile Station Control Message Word 1 (see **6.3.14**).
- d) Control Filler Message (see **6.3.4**).

10.2.3 The MS is switched on to start the test.

10.3 Response requirement

10.3.1 Within 2 min of the start of the test the MS shall respond to the BSS on the RECC corresponding to channel A.

10.3.2 The data contained within the RECC message shall be as follows:

Word A, Abbreviated Address Word (see **8.3.2**).

NOTE This is a single word page response.

10.3.3 The power level of the response shall be $PL = 7$, i.e. -22 dBW (ERP) $^{+2}_{-4}$ dB or the equivalent chassis power.

11 Select the stronger of two dedicated control channels

11.1 Description of test

The main purpose of this test is to confirm that the MS selects the stronger of two dedicated control channels of the preferred system.

11.2 Procedure

11.2.1 The BSS transmits on two channels, channel A and B, the details of which are:

- a) Channel A is the first channel of the dedicated control channel set of the MS preferred system, i.e. channel 23 or 323.
- b) Channel B is the last channel of the dedicated control channel set of the MS preferred system i.e. channel 43 or 343.
- c) The r.f. power level of channel A is set to RL **[6.9]**.
- d) The r.f. power level of channel B is 10 dB below RL **[6.9]**.

11.2.2 On channel A the BSS sends:

- a) Overhead Word 1 (see **6.3.2**) with the exception that the AID1 field is set to AID_p of the MS with bit 3 inverted.
- b) Overhead Word 2 (see **6.3.3**).
- c) Mobile Station Control Message Word 1 (see **6.3.14**).
- d) Control Filler Message (see **6.3.4**).

11.2.3 On channel B the BSS sends:

- a) Overhead Word 1 (see **6.3.2**) with the exception that the AID1 field is set to AID_p of the MS with bit 3 inverted, and bit 11 inverted so that the MS would be "roaming" if it locked to this channel.
- b) Overhead Word 2 (see **6.3.3**).
- c) Mobile Station Control Message Word 1 (see **6.3.14**).

d) Mobile Station Control Message Word 2, Extended Address Word Type B (see 6.3.16).

e) Control Filler Message (see 6.3.4).

11.2.4 The MS is switched on to start the test.

11.3 Response requirement

11.3.1 Within 2 min of the start of the test the MS shall respond to the BSS on the RECC corresponding to channel A.

11.3.2 The data contained within the RECC message shall be as follows:

Word A, Abbreviated Address Word (see 8.3.2).

12 Reject strong control channel signal outside the dedicated control channel set

12.1 Description of test

The main purpose of this test is to confirm that the MS rejects a strong signal outside the dedicated control channel set when scanning the dedicated control channels.

12.2 Procedure

12.2.1 The BSS transmits on two channels, channel A and channel B, the details of which are:

- Channel A is the last channel of the dedicated control channel set of the MS preferred system, i.e. channel 43 or 343.
- The number of channel B is 2 greater than that of channel A.
- The r.f. power level of channel A is set to 20 dB below RL [6.9].
- The r.f. power level of channel B is set to RL [6.9].

12.2.2 On channel A the BSS sends:

- Overhead Word 1 (see 6.3.2) with the exception that the AID1 field is set to AID_p of the MS with bit 3 inverted.
- Overhead Word 2 (see 6.3.3).
- Mobile Station Control Message Word 1 (see 6.3.14).
- Control Filler Message (see 6.3.4).

12.2.3 On channel B the BSS sends:

- Overhead Word 1 (see 6.3.2) with the exception that the AID1 field is set to AID_p of the MS with bit 3 inverted, and bit 11 inverted so that the MS would be “roaming” if it locked to this channel.
- Overhead Word 2 (see 6.3.3).
- Mobile Station Control Message Word 1 (see 6.3.14).
- Mobile Station Control Message Word 2 — Extended Address Word Type B (see 6.3.16).
- Control Filler Message (see 6.3.4).

12.2.4 The MS is switched on to start the test.

12.3 Response requirement

12.3.1 Within 2 min of the start of the test the MS shall respond to the BSS on the RECC corresponding to channel A.

12.3.2 The data contained within the RECC message shall be as follows:

Word A, Abbreviated Address Word (see 8.3.2).

13 Reject control channel with BCH incorrect data

13.1 Description of test

The main purpose of this test is to confirm that a stronger control channel containing BCH incorrect data is rejected by the MS scanning dedicated control channels.

13.2 Procedure

13.2.1 The BSS transmits on two channels, channel A and channel B, the details of which are:

- a) Channel A is the first channel of the dedicated control channel set of the MS preferred system, i.e. channel 23 or 323.
- b) Channel B is the last channel of the dedicated control channel set of the MS preferred system, i.e. channel 43 or 343.
- c) The r.f. power level of channel A is set to RL [6.9].
- d) The r.f. power level of channel B is set to 10 dB below RL [6.9].

13.2.2 On channel A the BSS sends:

- a) Overhead Word 1 (see 6.3.2) with the following exceptions:
 - 1) The AID1 field is set to AID_p of the MS with bit 3 inverted.
 - 2) The P field is set to the correct parity with bits 1 and 12 inverted.
- b) Overhead Word 2 (see 6.3.3) with the exception that the P field is set to the correct parity with bits 1 and 12 inverted.
- c) Mobile Station Control Message Word 1 (see 6.3.14) with the exception that the P field is set to the correct parity with bits 1 and 12 inverted.
- d) Control Filler Message (see 6.3.4) with the exception that the P field is set to the correct parity with bits 1 and 12 inverted.

13.2.3 On channel B the BSS sends:

- a) Overhead Word 1 (see 6.3.2) with the exception that the AID1 field is set to AID_p of the MS with bit 3 inverted, and bit 11 inverted so that the MS is in the “roaming” state when it locks to this channel.
- b) Overhead Word 2 (see 6.3.3).
- c) Mobile Station Control Message Word 1 (see 6.3.14).
- d) Mobile Station Control Message Word 2 — Extended Address Word Type B (see 6.3.16).
- e) Control Filler Message (see 6.3.4).

13.2.4 The MS is switched on to start the test.

13.3 Response requirement

13.3.1 Within 2 min of the start of the test the MS shall respond to the BSS on the RECC corresponding to channel B.

13.3.2 The data contained within the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see 8.3.2) with the exception that the E field shall be set to 1.
- b) Word B, Extended Address Word (see 8.3.3).

14 Scan home paging channel set

14.1 Description of test

The main purpose of this test is to confirm that the MS scans its home paging channel set as defined by $FIRSTCHP_p$. This is confirmed by setting the serial number send bit “S” to 1 on the $FIRSTCHP_p$ channel set only, and checking that the MS sends the serial number when it accesses the system.

NOTE $FIRSTCHP_p$ should not be set within the ranges 3–43 or 303–343.

14.2 Procedure

14.2.1 The BSS transmits on two channels, channel A and channel B, the details of which are:

- a) Channel A is the first channel of the dedicated control channel set of the MS preferred system, i.e. channel 23 or 323.
- b) The channel number of channel B is 20 greater than the value of $FIRSTCHP_p$ of the MS.
- c) The r.f. power level of channel A is set to RL [6.9].
- d) The r.f. power level of channel B is set to 10 dB below RL [6.9].

14.2.2 On channel A the BSS sends:

- a) Overhead Word 1 (see **6.3.2**).
- b) Overhead Word 2 (see **6.3.3**).
- c) Mobile Station Control Message Word 1 (see **6.3.14**).
- d) Control Filler Message (see **6.3.4**).

14.2.3 On channel B the BSS sends:

- a) Overhead Word 1 (see **6.3.2**).
- b) Overhead Word 2 (see **6.3.3**) with the exception that the S field is set to 1.
- c) Mobile Station Control Message Word 1 (see **6.3.14**).
- d) Control Filler Message (see **6.3.4**).

14.2.4 The MS is switched on to start the test.

14.3 Response requirement

14.3.1 Within 2 min of the start of the test the MS shall respond to the BSS on the RECC corresponding to channel A.

14.3.2 The data contained within the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see **8.3.2**) with the exception that the S field shall be set to 1.
- b) Word C, Serial Number Word (see **8.3.4**).

15 Scan greater than 21 paging channels when N is greater than 21

15.1 Description of test

The main purpose of this test is to confirm that the MS finds a stronger paging channel outside the 21 dedicated control channels when N (the number of paging channels) is greater than 21.

15.2 Procedure

15.2.1 The BSS transmits on two channels, channel A and channel B, the details of which are:

- a) Channel A is the first channel of the dedicated control channel set of the MS preferred system i.e. channel 23 or 323.
- b) The channel number of channel B is 31 greater than the channel number of channel A.
- c) The r.f. power level of channel A is set to 10 dB below RL [**6.9**].
- d) The r.f. power level of channel B is set to RL [**6.9**].

15.2.2 On channel A the BSS sends:

- a) Overhead Word 1 (see **6.3.2**) with the exception that the AID1 field is set to AID_p of the MS with bit 9 inverted.
- b) Overhead Word 2 (see **6.3.3**) with the exception that the N-1 field is set to 11111.
- c) Mobile Station Control Message Word 1 (see **6.3.14**).
- d) Control Filler Message (see **6.3.4**).

15.2.3 On channel B the BSS sends:

- a) Overhead Word 1 (see **6.3.2**) with the exception that the AID1 field is set to AID_p of the MS with bit 9 inverted.
- b) Overhead Word 2 (see **6.3.3**) with the following exceptions:
 - 1) The S field is set to 1.
 - 2) The N-1 field is set to 11111.
- c) Mobile Station Control Message Word 1 (see **6.3.14**).
- d) Control Filler Message (see **6.3.4**).

15.2.4 The MS is switched on to start the test.

15.3 Response requirement

15.3.1 Within 2 min of the start of the test the MS shall respond to the BSS on the RECC corresponding to channel A.

15.3.2 The data contained within the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see 8.3.2) with the exception that the S field shall be set to 1.
- b) Word C, Serial Number Word (see 8.3.4).

16 Select the stronger paging channel after a system access

16.1 Description of test

The main purpose of this test is to confirm that the MS selects the stronger of two paging channels when it returns to scan the paging channels following a system access.

16.2 Procedure 1

16.2.1 The BSS transmits on two channels, channel A and channel B, the details of which are:

- a) Channel A is the first channel of the dedicated control channel set of the MS preferred system i.e. channel 23 or 323.
- b) Channel B is the last channel of the dedicated control channel set of the MS preferred system, i.e. channel 43 or 343.
- c) The r.f. power level of channel A is set to RL [6.9].
- d) The r.f. power level of channel B is set to 10 dB below RL [6.9].

16.2.2 On channel A the BSS sends:

- a) Overhead Word 1 (see 6.3.2) with the exception that the AID1 field is set to AID_p of the MS with bit 3 inverted.
- b) Overhead Word 2 (see 6.3.3).
- c) Mobile Station Control Message Word 1 (see 6.3.14).
- d) Control Filler Message (see 6.3.4).

16.2.3 On channel B the BSS sends:

- a) Overhead Word 1 (see 6.3.2) with the exception that the AID1 field is set to AID_p of the MS with bit 3 inverted.
- b) Overhead Word 2 (see 6.3.3).
- c) Mobile Station Control Message Word 1 (see 6.3.14).
- d) Mobile Station Control Message Word 2 — Extended Address Word Type B (see 6.3.16).
- e) Control Filler Message (see 6.3.4).

16.2.4 The MS is switched on to start the test.

16.3 Response requirement 1

16.3.1 Within 2 min of the start of the test the MS shall respond to the BSS on the RECC corresponding to channel A.

16.3.2 The data contained within the RECC message shall be as follows:

Word A, Abbreviated Address Word (see 8.3.2)

NOTE This is a single word page response.

16.4 Procedure 2

Within 4.5 s of receipt of the last bit of the MS page response message the BSS changes the r.f. power level of channel A to 20 dB below RL [6.9].

16.5 Response requirement 2

16.5.1 Within 4 min of the start of the test the MS shall respond to the BSS on the RECC corresponding to channel B.

16.5.2 The data contained within the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see 8.3.2) with the exception that the E field shall be set to 1.
- b) Word B, Extended Address Word (see 8.3.3).

17 Scan paging channels of the non-preferred system

17.1 Description of test

The main purpose of this test is to confirm that the MS scans the paging channels of the non-preferred system.

17.2 Procedure

17.2.1 The BSS transmits on two channels, channel A and channel B, the details of which are:

- a) Channel A is the first channel of the dedicated control channel set of the MS non-preferred system, i.e. channel numbers 323 or 32.
- b) The channel number of channel B is 31 greater than the channel number of channel A.
- c) The r.f. power level of channel A is set to 10 dB below RL [6.9].
- d) The r.f. power level of channel B is set to RL [6.9].

17.2.2 On channel A the BSS sends:

- a) Overhead Word 1 (see 6.3.2).
- b) Overhead Word 2 (see 6.3.3) with the exception that N-1 field is set to 1111.
- c) Mobile Station Control Message Word 1 (see 6.3.14).
- d) Control Filler Message (see 6.3.4).

17.2.3 On channel B the BSS sends:

- a) Overhead Word 1 (see 6.3.2).
- b) Overhead Word 2 (see 6.3.3) with the following exceptions:
 - 1) The S field is set to 1.
 - 2) The N-1 field is set to 1111.
- c) Mobile Station Control Message Word 1 (see 6.3.14).
- d) Mobile Station Control Message Word 2 — Extended Address Word Type B (see 6.3.16).
- e) Control Filler Message (see 6.3.4).

17.2.4 The MS is switched on to start the test.

17.3 Response requirement

17.3.1 Within 2 min of the start of the test the MS shall respond to the BSS on the RECC corresponding to channel A.

17.3.2 The data contained within the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see 8.3.2) with the following exceptions:
 - 1) The S field shall be set to 1.
 - 2) The E field shall be set to 1.
- b) Word B, Extended Address Word (see 8.3.3).
- c) Word C, Serial Number Word (see 8.3.4).

18 Extended address word sent if E field in overhead is set to 1

18.1 Description of test

The main purpose of this test is to confirm that the MS sends a two word page response when the E field is set to 1 in the system parameter overhead message.

18.2 Procedure

18.2.1 The BSS transmits on a single channel (channel A), which is the first channel of the dedicated control channel set of the MS preferred system, i.e. channel 23 or 323.

18.2.2 On channel A the BSS sends:

- a) Overhead Word 1 (see 6.3.2) with the exception that the AID1 field is set to AID_p of the MS with bit 3 inverted.
- b) Overhead Word 2 (see 6.3.3) with the exception that the E field is set to 1.

c) Mobile Station Control Message Word 1 (see 6.3.14).

d) Control Filler Message (see 6.3.4).

18.2.3 The MS is switched on to start the test.

18.3 Response requirement

18.3.1 Within 2 min of the start of the test MS shall respond to the BSS on the RECC corresponding to channel A.

18.3.2 The data contained within the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see 8.3.2) with the exception that the E field shall be set to 1.
- b) Word B, Extended Address Word (see 8.3.3).

19 Access at full power when RCF is set to 0

19.1 Description of test

The main purpose of this test is to confirm that the MS accesses the system at full power when the RCF field of the system parameter overhead message sent by the BSS is set to 0.

19.2 Procedure

19.2.1 The BSS transmits on a single channel (channel A), which is the first channel of the dedicated control channel set of the MS preferred system, i.e. channel 23 or 323.

19.2.2 On channel A the BSS sends:

- a) Overhead Word 1 (see 6.3.2) with the exception that the AID1 is set to AID_p of the MS with bit 3 inverted.
- b) Overhead Word 2 (see 6.3.3) with the exception that the RCF field is set to 0.
- c) Mobile Station Control Message Word 1 (see 6.3.14).
- d) Control Filler Message (see 6.3.4).

19.2.3 The MS is switched on to start the test.

19.3 Response requirement

19.3.1 Within 2 min of the start of the test the MS shall respond to the BSS on the RECC corresponding to channel A.

19.3.2 The data contained within the RECC message shall be as follows:

Word A, Abbreviated Address Word (see 8.3.2)

19.3.3 The power level of the response shall be $PL = 0$ i.e. for Class 1 MS it is + 10 dBW(ERP) $_{-4}^{+2}$ dB as the equivalent chassis power.

20 Scan separate access channels when CPA = 0

20.1 Description of test

The main purpose of this test is to confirm that the MS scans separate paging and access channels when CPA is set to 0.

20.2 Procedure

20.2.1 The BSS transmits on two channels, channel A and channel B, the details of which are:

- a) Channel A is the first channel of the dedicated control channel set of the MS preferred system, i.e. channel 23 or 323.
- b) The channel number of channel B is 6 greater than the channel number of channel A.
- c) The r.f. power level of channel A is set to 10 dB below RL [6.9].
- d) The r.f. power level of channel B is set to RL [6.9].

20.2.2 On channel A the BSS sends:

- a) Overhead Word 1 (see 6.3.2) with the exception that the AID1 field is set to AID_p of the MS with bit 9 inverted.

b) Overhead Word 2 (see 6.3.3) with the following exceptions:

- 1) The N-1 field is set to 00100.
- 2) The CPA field is set to 0.

c) Mobile Station Control Message Word 1 (see 6.3.14).

d) Control Filler Message (see 6.3.4).

20.2.3 On channel B the BSS sends:

a) Overhead Word 1 (see 6.3.2) with the exception that the AID1 field is set to AID_p of the MS with bit 9 inverted.

b) Overhead Word 2 (see 6.3.3) with the following exceptions:

- 1) The S field is set to 1.
- 2) The N-1 field is set to 00100.
- 3) The CPA field is set 0.

c) Mobile Station Control Message Word 1 (see 6.3.14).

d) Control Filler Message (see 6.3.4).

20.2.4 The MS is switched on to start the test.

20.3 Response requirement

20.3.1 Within 2 min of the start of the test the MS shall respond to the BSS on the RECC corresponding to channel B.

20.3.2 The data contained within the RECC message shall be as follows:

Word A, Abbreviated Address Word (see 8.3.2).

21 Reject local control message when group identification does not match

21.1 Description of test

The main purpose of this test is to confirm that the MS rejects a local control message when the local control group identification does not match.

21.2 Procedure

21.2.1 The BSS transmits on two channels, channel A and channel B, the details of which are:

- a) Channel A is the first channel of the dedicated control channel set of the MS non-preferred system i.e. channel 23 or 323.
- b) The channel number of channel B is 31 greater than the channel number of channel A.
- c) The r.f. power level of channel A is set to 10 dB below RL [6.9].
- d) The r.f. power level of channel B is set to RL [6.9].

21.2.2 On channel A the BSS sends:

- a) Overhead Word 1 (see 6.3.2).
- b) Overhead Word 2 (see 6.3.3), with the exception that the N-1 field is set to 11111.
- c) Local Control 1 Message (see 6.3.12) with the exception that this message is added as word 3 of the overhead train at every repeat, not only every 10th repeat (see 6.2).
- d) Mobile Station Control Message Word 1 (see 6.3.14).
- e) Mobile Station Control Message Word 2 — Extended Address Word Type B (see 6.3.16).
- f) Control Filler Message (see 6.3.4).

21.2.3 On channel B the BSS sends:

- a) Overhead Word 1 (see 6.3.2).
- b) Overhead Word 2 (see 6.3.3) with the following exceptions:
 - 1) The S field is set to 1.
 - 2) The N-1 field is set to 11111.
- c) Local Control 1 Message (see 6.3.12) with the exception that this message is added as word 3 of the overhead train at every repeat, not only every 10th repeat (see 6.2).

- d) Mobile Station Control Message Word 1 (see 6.3.14).
- e) Mobile Station Control Message Word 2 — Extended Address Word Type B (see 6.3.16).
- f) Control filler message (see 6.3.4).

21.2.4 The MS is switched on to start the test.

21.3 Response requirement

21.3.1 Within 2 min of the start of the test the MS shall respond to the BSS on the RECC corresponding to channel A.

21.3.2 The data contained within the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see 8.3.2) with the following exceptions:
 - 1) The S field shall be set to 1.
 - 2) The E field shall be set to 1.
- b) Word B, Extended Address Word (see 8.3.3) with the exception that the LOCAL field setting is arbitrary.
- c) Word C, Serial Number Word (see 8.3.4).

22 Do not access if paging channel AID1 is not equal to dedicated control channel AID1

22.1 Description of test

The main purpose of this test is to confirm that the MS does not access the system when the value of the AID1 field received by the MS on a paging channel does not match the AID1 field received by the MS on the dedicated control channel.

22.2 Procedure

22.2.1 The BSS transmits on two channels, channel A and channel B, the details of which are as follows:

- a) Channel A is the first channel of the dedicated control channel set of the MS preferred system, i.e. channel 23 or 323.
- b) The channel number of channel B is 20 greater than the value of $FIRSTCHP_p$ of the MS.
- c) The r.f. power level of channel A is set to RL [6.9].
- d) The r.f. power level of channel B is set to 10 dB below RL [6.9].

22.2.2 On channel A the BSS sends:

- a) Overhead Word 1 (see 6.3.2).
- b) Overhead Word 2 (see 6.3.3).
- c) Mobile Station Control Message Word 1 (see 6.3.14).
- d) Control Filler Message (see 6.3.4).

22.2.3 On channel B the BSS sends:

- a) Overhead Word 1 (see 6.3.2) with the exception that the AID1 field is set to AID_p of the MS with bit 14 inverted.
- b) Overhead Word 2 (see 6.3.3) with the exception that the S field is set to 1.
- c) Mobile Station Control Message Word 1 (see 6.3.14).
- d) Control Filler Message (see 6.3.4).

22.2.4 The MS is switched on to start the test.

22.3 Response requirement

The MS shall not respond. After 2 min it shall be assumed that the MS would make no response.

Section 4. Overhead messages to all MS: Registration

23 Set up 4 AID_{sp} and $NXTREG_{sp}$ values and test registration

23.1 Description of test

The main purpose of this test is to set up four AID_{sp} and $NXTREG_{sp}$ values in the MS semi-permanent memory. The test also confirms that the MS will register when the AID transmitted by the BSS changes to a value other than the four values set up. Whilst the initial four values of AID_{sp} and $NXTREG_{sp}$ are being set up, the MS may or may not register depending on the values currently stored within its semi-permanent memory.

23.2 Procedure 1

NOTE The BSS test parameters in 23.2.1 and 23.2.2 are set throughout test 23 with the exception that AID1 is required to change, and the BSS is required to send registration confirmation messages at the appropriate times.

23.2.1 The BSS transmits on a single channel (channel A) which is the first channel of the dedicated control channel set of the MS preferred system i.e. channel number 23 or 323.

23.2.2 On channel A the BSS sends the following:

- a) Overhead Word 1 (see 6.3.2) with the exception that the AID1 field is set to AID_p of the MS with bit 10 inverted.
- b) Overhead Word 2 (see 6.3.3).
- c) Registration Identification Message (see 6.3.5).
- d) Control Filler Message (see 6.3.4).

23.2.3 The MS is switched on to start the test.

23.3 Response alternatives

If the MS responds to the BSS it shall send a registration message on the RECC as in 23.4. If the MS does not respond within 3 min of the start of the test, the test continues at 23.5.3.

23.4 Response requirement 1

23.4.1 The MS response shall be on the RECC corresponding to channel A.

23.4.2 The data contained within the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see 8.3.2) with the following exceptions:
 - 1) The T field shall be set to 1.
 - 2) The E field shall be set to 1.
- b) Word B, Extended Address Word (see 8.3.3) with the following exceptions:
 - 1) The ORDER field shall be set to 01101 (Registration).
 - 2) The LOCAL field setting is arbitrary.

23.5 Procedure 2

23.5.1 Within 4.5 s of the receipt of the last bit of the MS registration message the BSS completes the sending of a registration confirmation message on channel A.

The registration confirmation message consists of two words and replaces any two adjacent control filler messages.

23.5.2 The registration confirmation message is as follows:

- a) Mobile Station Control Message Word 1 (see 6.3.14).
- b) Mobile Station Control Message Word 2 — Extended Address Word Type B (see 6.3.16) with the exception that the ORDER field is set to 01101 (Registration).

23.5.3 The BSS changes the value of the AID1 field in the overhead word 1 message to AID_p of the MS with bit 9 inverted.

23.6 Response alternatives

If the MS responds to the BSS it shall send a registration message on the RECC as in 23.7. If the MS does not respond within 3 min of the change of the AID1 field (see 23.5.3), the test continues at 23.8.3.

23.7 Response requirement 2

23.7.1 The MS response shall be on the RECC corresponding to channel A.

23.7.2 The data contained within the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see **8.3.2**) with the following exceptions:
 - 1) The T field shall be set to 1.
 - 2) The E field shall be set to 1
- b) Word B, Extended Address Word (see **8.3.3**) with the following exceptions:
 - 1) The ORDER field shall be set to 01100 (Registration).
 - 2) The LOCAL field setting is arbitrary.

23.8 Procedure 3

23.8.1 Within 4.5 s of the receipt of the last bit of the MS registration message the BSS completes the sending of a registration confirmation message on channel A.

The registration confirmation message consists of two words and replaces any two adjacent control filler messages.

23.8.2 The registration confirmation message is as follows:

- a) Mobile Station Control Message Word 1 (see **6.3.14**).
- b) Mobile Station Control Message Word 2 — Extended Address Word Type B (see **6.3.16**) with the exception that the ORDER field is set to 01101 (Registration).

23.8.3 The BSS changes the value of the AID1 field in the overhead word 1 message to AID_p of the MS with bit 8 inverted.

23.9 Response alternatives

The MS may respond to the BSS with a registration message on the RECC corresponding to channel A. If the MS does respond the response shall be as in **23.10**. If the MS does not respond within 3 min to the change of AID1 field, (see **23.8.3**) the test continues at **23.11.3**.

23.10 Response requirement 3

23.10.1 The MS response shall be on the RECC corresponding to channel A.

23.10.2 The data contained within the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see **8.3.2**) with the following exceptions:
 - 1) The T field shall be set to 1.
 - 2) The E field shall be set to 1.
- b) Word B, Extended Address Word (see **8.3.3**) with the following exceptions:
 - 1) The ORDER field shall be set to 01101 (Registration).
 - 2) The LOCAL field setting is arbitrary.

23.11 Procedure 4

23.11.1 Within 4.5 s of the receipt of the last bit of the MS registration message the BSS completes the sending of a registration confirmation message on channel A.

The registration confirmation message consists of two words and replaces any two adjacent control filler messages.

23.11.2 The registration confirmation message is as follows:

- a) Mobile Station Control Message Word 1 (see **6.3.14**).
- b) Mobile Station Control Message Word 2 — Extended Address Word Type B (see **6.3.16**) with the exception that the ORDER field is set to 01101 (Registration).

23.11.3 The BSS changes the value of the AID1 field in the overhead word 1 message to AID_p of the MS with bit 7 inverted.

23.12 Response alternatives

If the MS responds to the BSS it shall send a registration message on the RECC as in **23.13**. If the MS does not respond within 3 min to the change of AID1 field (see **23.11.3**), the test continues at **23.14.3**.

23.13 Response requirement 4

23.13.1 The MS response shall be on the RECC corresponding to channel A.

23.13.2 The data contained within the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see **8.3.2**) with the following exceptions:
 - 1) The T field shall be set to 1.
 - 2) The E field shall be set to 1.
- b) Word B, Extended Address Word (see **8.3.3**) with the following exceptions:
 - 1) The ORDER field shall be set to 01101 (Registration).
 - 2) The LOCAL field setting is arbitrary.

23.14 Procedure 5

23.14.1 Within 4.5 s of the receipt of the last bit of the MS registration message the BSS completes the sending of a registration confirmation message on channel A.

The registration confirmation message consists of two words and replaces any two adjacent control filler messages.

23.14.2 The registration confirmation message is as follows:

- a) Mobile Station Control Message Word 1 (see **6.3.14**).
- b) Mobile Station Control Message Word 2 — Extended Address Word Type B (see **6.3.16**) with the exception that the ORDER field is set to 01101 (Registration).

23.14.3 The BSS changes the value of the AID1 field in the overhead word 1 message to AID_p of the MS with bit 6 inverted.

23.15 Response requirement 5

23.15.1 Within 3 min of the BSS changing the AID1 field of the overhead word 1 message (see **23.14.3**), the MS shall respond to the BSS on the RECC corresponding to channel A.

23.15.2 The data contained within the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see **8.3.2**) with the following exceptions:
 - 1) The T field shall be set to 1.
 - 2) The E field shall be set to 1.
- b) Word B, Extended Address Word (see **8.3.3**) with the following exceptions:
 - 1) The ORDER field shall be set to 01101 (Registration).
 - 2) The LOCAL field setting is arbitrary.

23.16 Procedure 6

23.16.1 Within 4.5 s of the receipt of the last bit of the MS registration message the BSS completes the sending of a registration confirmation message on channel A.

The registration confirmation message consists of two words and replaces any two adjacent control filler messages.

23.16.2 The registration confirmation message is as follows:

- a) Mobile Station Control Message Word 1 (see **6.3.14**).
- b) Mobile Station Control Message Word 2 — Extended Address Word Type B (see **6.3.16**), with the exception that the ORDER field is set to 01101 (Registration).

23.16.3 The BSS changes the value of the AID1 field in the overhead word 1 message to AID_p of the MS with bit 5 inverted.

23.17 Response requirement 6

23.17.1 Within 3 min of the BSS changing the AID1 field of the overhead word 1 message (see **23.16.3**), the MS shall respond to the BSS on the RECC corresponding to channel A.

23.17.2 The data contained within the RECC shall be as follows:

- a) Word A, Abbreviated Address Word (see **8.3.2**) with the following exceptions:
 - 1) The T field shall be set to 1.
 - 2) The E field shall be set to 1.

b) Word B, Extended Address Word (see 8.3.3) with the following exceptions:

- 1) The ORDER field shall be set to 01101 (Registration).
- 2) The LOCAL field setting is arbitrary.

23.18 Procedure 7

23.18.1 Within 4.5 s of the receipt of the last bit of the MS registration message the BSS completes the sending of a registration confirmation message on channel A.

The registration confirmation message consists of two words and replaces any two adjacent control filler messages.

23.18.2 The registration confirmation message is as follows:

- a) Mobile Station Control Message Word 1 (see 6.3.14).
- b) Mobile Station Control Message Word 2 — Extended Address Word Type B (see 6.3.16) with the exception that the ORDER field is set to 01101 (Registration).

23.18.3 The BSS changes the value of the AID1 field in the overhead word 1 message to AID_p of the MS with bit 4 inverted.

23.19 Response requirement 7

23.19.1 Within 3 min of the BSS changing the AID1 field of the overhead word 1 message (see 23.18.3), the MS shall respond to the BSS on the RECC corresponding to channel A.

23.19.2 The data contained within the RECC message shall be:

- a) Word A, Abbreviated Address Word (see 8.3.2) with the following exceptions:
 - 1) The T field shall be set to 1.
 - 2) The E field shall be set to 1.
- b) Word B, Extended Address Word (see 8.3.3) with the following exceptions.
 - 1) The ORDER field shall be set to 01101 (Registration).
 - 2) The LOCAL field setting is arbitrary.

23.20 Procedure 8

23.20.1 Within 4.5 s of the receipt of the last bit of the MS registration message the BSS completes the sending of a registration confirmation message on channel A.

The registration confirmation message consists of two words and replaces any two adjacent control filler messages.

23.20.2 The registration confirmation message is as follows:

- a) Mobile Station Control Message Word 1 (see 6.3.14).
- b) Mobile Station Control Message Word 2 — Extended Address Word Type B (see 6.3.16) with the exception that the ORDER field is set to 01101 (Registration).

23.20.3 The BSS changes the value of the AID1 field in the overhead word 1 message to AID_p of the MS with bit 3 inverted.

23.21 Response requirement 8

23.21.1 Within 3 min of the BSS changing the AID1 field of the overhead word 1 message (see 23.20.3), the MS shall respond to the BSS on the RECC corresponding to channel A.

23.21.2 The data contained within the RECC message shall be:

- a) Word A, Abbreviated Address Word (see 8.3.2) with the following exceptions:
 - 1) The T field shall be set to 1.
 - 2) The E field shall be set to 1.
- b) Word B, Extended Address Word (see 8.3.3) with the following exceptions:
 - 1) The ORDER field shall be set to 01101 (Registration).
 - 2) The LOCAL field setting is arbitrary.

24 Register when REGID exceeds $NXTREG_{sp}$

24.1 Description of test

The main purpose of this test is to establish that the MS registers when the value sent in the registration identification message exceeds the NXTREG value stored in the MS. This test shall be performed immediately after the test described in clause 23.

24.2 Procedure 1

24.2.1 The BSS continues to transmit on a single channel (channel A) which is the first channel of the dedicated control channel set of the MS preferred system i.e. channel number 23 or 323.

24.2.2 On channel A the BSS continues to send the following:

- a) Overhead Word 1 (see 6.3.2) with the exception that the AID1 field is set to AID_p of the MS with bit 3 inverted.
- b) Overhead Word 2 (see 6.3.3).
- c) Registration Identification Message (see 6.3.5).
- d) Control Filler Message (see 6.3.4).

24.2.3 Each time the registration identification message is sent the REGID field is incremented by 100 (decimal) until the REGID value reaches 16900 (decimal). The REGID field is then fixed at this value.

24.3 Response requirement 1

24.3.1 The MS shall not respond to the BSS until the REGID field has been incremented by 500 (decimal) [i.e. until 16900 (decimal) has been sent]. The MS shall then respond on the RECC corresponding to channel A.

24.3.2 The data contained within the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see 8.3.2) with the following exceptions:
 - 1) The T field shall be set to 1.
 - 2) The E field shall be set to 1.
- b) Word B, Extended Address Word (see 8.3.3) with the following exceptions:
 - 1) The ORDER field shall be set to 01101 (Registration).
 - 2) The LOCAL field setting is arbitrary.

24.4 Procedure 2

24.4.1 Within 4.5 s of the receipt of the last bit of the MS registration message the BSS completes the sending of a registration confirmation message on channel A.

The registration confirmation message consists of two words and replaces any two adjacent control filler messages.

24.4.2 The registration confirmation message is as follows:

- a) Mobile Station Control Message Word 1 (see 6.3.14).
- b) Mobile Station Control Message Word 2 — Extended Address Word Type B (see 6.3.16) with the exception that the ORDER field is set to 01101 (Registration).

25 Retain AID_{sp} when AID changes

25.1 Description of test

The main purpose of this test is to establish that the MS does not forget one AID_{sp} when AID changes. This test shall be performed immediately after the test described in clause 24.

25.2 Procedure 1

25.2.1 The BSS continues to transmit on a single channel (channel A) which is the first channel of the dedicated control channel set of the MS preferred system, i.e. channel number 23 or 323.

25.2.2 On channel A the BSS sends the following:

- a) Overhead Word 1 (see 6.3.2) with the exception that the AID1 field is set to AID_p of the MS with bit 6 inverted.

- b) Overhead Word 2 (see 6.3.3).
- c) Registration Identification Message (see 6.3.5).
- d) Control Filler Message (see 6.3.4).

25.2.3 Each time the registration identification message is sent the REGID field is incremented by 100 (decimal) until the REGID value reached 16800 (decimal).

25.2.4 A Registration Increment Global Action Message (see 6.3.7) is then appended to the next and all subsequent occurrences of the system parameter overhead message. Where both messages are sent, the registration increment global action message is positioned before the registration identification message in the overhead message train.

NOTE The value of NAWC in overhead word 1 (see 6.3.2) needs to be amended when the registration increment global action message is included in the message train.

25.2.5 The REGID value is incremented by a further 100 (decimal) to 16900 (decimal) and fixed at this value for the next and all subsequent registration identification messages in this test.

25.3 Response requirement 1

25.3.1 The MS shall not respond to the BSS until the REGID field has been incremented by 500 (decimal) [i.e. until 16900 (decimal) has been sent]. The MS shall then respond on the RECC corresponding to channel A.

25.3.2 The data contained within the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see 8.3.2) with the following exceptions:
 - 1) The T field shall be set to 1.
 - 2) The E field shall be set to 1.
- b) Word B, Extended Address Word (see 8.3.3) with the following exceptions:
 - 1) The ORDER field shall be set to 01101 (Registration).
 - 2) The LOCAL field setting is arbitrary.

25.4 Procedure 2

25.4.1 Within 4.5 s of the receipt of the last bit of the MS registration message the BSS completes the sending of a registration confirmation message on channel A.

The registration confirmation message consists of two words and replaces any two adjacent control filler messages.

25.4.2 The registration confirmation message is as follows:

- a) Mobile Station Control Message Word 1 (see 6.3.14).
- b) Mobile Station Control Message Word 2 — Extended Address Word Type B (see 6.3.16) with the exception that the ORDER field is set to 01101 (Registration).

26 Response to a Registration Increment Global Action Message

26.1 Description of test

The main purpose of this test is to establish that the MS responds correctly to a registration increment global action message. This test shall be performed immediately after the test described in clause 25.

26.2 Procedure 1

26.2.1 The BSS continues to transmit on a single channel (channel A) which is the first channel of the dedicated control channel set of the MS preferred system i.e. channel number 23 or 323.

26.2.2 On channel A the BSS sends the following:

- a) Overhead Word 1 (see 6.3.2) with the exception that the AID1 field is set to AID_p of the MS with bit 6 inverted.
- b) Overhead Word 2 (see 6.3.3).
- c) Registration Identification Message (see 6.3.5) with the exception that the REGID field is set to 16900 (decimal).
- d) Control Filler Message (see 6.3.4).

NOTE A Registration Increment Global Action Message (see 6.3.7) is not appended to the system parameter overhead message.

26.2.3 The REGID value is incremented by a further 100 (decimal) each time it is sent until the REGID value reaches 17200 (decimal) and is fixed at this value for the next and all subsequent registration identification messages in this test.

26.3 Response requirement 1

26.3.1 The MS shall not respond to the BSS until the REGID field has been incremented by 300 (decimal) [i.e. until 17200 (decimal) has been sent]. The MS shall then respond on the RECC corresponding to channel A.

26.3.2 The data contained within the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see **8.3.2**) with the following exceptions:
 - 1) The T field shall be set to 1.
 - 2) The E field shall be set to 1.
- b) Word B Extended Address Word (see **8.3.3**) with the following exceptions:
 - 1) The ORDER field shall be set to 01101 (Registration).
 - 2) The LOCAL field setting is arbitrary.

26.4 Procedure 2

26.4.1 Within 4.5 s of the receipt of the last bit of the MS registration message the BSS completes the sending of a registration confirmation message on channel A.

The registration confirmation message consists of two words and replaces any two adjacent control filler messages.

26.4.2 The registration confirmation message is as follows:

- a) Mobile Station Control Message Word 1 (see **6.3.14**);
- b) Mobile Station Control Message Word 2 Extended Address Word Type B (see **6.3.16**) with the exception that the ORDER field is set to 01101 (Registration).

27 Forced registration and overload control

27.1 Description of test

The main purposes of this test are to establish the following:

- a) that the MS registers on a change of AID when the FREG field on the system parameter overhead message sent by the BSS is set to 1;
- b) that the MS does not register when the REGH field is set to 0;
- c) that overload distribution is invoked when REGH is restored to 1;
- d) that the overload control (ACCOLC) is examined;
- e) that the MS re-registers after a registration failure in forced registration mode, even if the registration identification message is not sent.

This test shall be performed immediately after the test described in clause **26**.

27.2 Procedure 1

27.2.1 The BSS continues to transmit on a single channel (channel A) which is the first channel of the dedicated control channel set of the MS preferred system i.e. channel number 23 or 323.

27.2.2 On channel A the BSS sends the following:

- a) Overhead Word 1 (see **6.3.2**) with the exception that the AID₁ field is set to the AID_p of the MS, with bit 3 inverted.
- b) Overhead Word 2 (see **6.3.3**) with the exception that the FREG field is set to 1.
- c) Overload Control Global Action Message (see **6.3.9**) with the following exceptions:
 - 1) The OLC(N) field is set to 1.
 - 2) The OLC(MS) field is set to 0.
 - 3) This message is added as word 3 of the overhead train at every repeat, not only every 10th repeat (see **6.2**).

d) Registration Identification Message (see 6.3.5) with the exception that the REGID field is set to 16900 (decimal).

e) Control Filler Message (see 6.3.4) with the exception that the WFOM field is set to 1.

27.3 Response requirement 1

The MS shall not respond. After 2 min it shall be assumed that the MS would make no response.

27.4 Procedure 2

The BSS sets the value of the WFOM field of the Control Filler Message (see 6.3.4) to zero.

27.5 Response requirement 2

27.5.1 Within 3 min of the BSS changing the WFOM field the MS shall respond to the BSS on the RECC corresponding to channel A.

27.5.2 The data contained within the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see 8.3.2) with the following exceptions:
 - 1) The T field shall be set to 1.
 - 2) The E field shall be set to 1.
- b) Word B Extended Address Word (see 8.3.3) with the following exceptions:
 - 1) The ORDER field shall be set to 01101 (Registration)
 - 2) The LOCAL field setting is arbitrary.

27.6 Procedure 3

27.6.1 To simulate registration failure the BSS does not send a registration confirmation message on channel A.

27.6.2 The BSS stops sending the registration identification message within 4.5 s of the receipt of the last bit of the MS registration message.

27.7 Response requirement 3

27.7.1 Between 5 s and 137 s after the transmission of the last bit of the MS registration message sent in 27.5 the MS shall respond to the BSS on the RECC corresponding to channel A.

27.7.2 The data contained within the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see 8.3.2) with the following exceptions:
 - 1) The T field shall be set to 1.
 - 2) The E field shall be set to 1.
- b) Word B, Extended Address Word (see 8.3.3) with the following exceptions:
 - 1) The ORDER field shall be set to 01101 (Registration).
 - 2) The LOCAL field setting is arbitrary.

27.8 Procedure 4

27.8.1 The BSS does not send a registration confirmation message on channel A.

27.8.2 The BSS sets the value of the REGH field of the system parameter overhead message (Word 2) to zero within 4.5 s of the receipt of the last bit of the mobile station registration message.

27.9 Response requirement 4

The MS shall not respond. After 140 s it shall be assumed that the MS would make no response.

27.10 Procedures 5

The BSS sets the value of the REGH field of the system parameter overhead message (Word 2) to 1.

27.11 Response requirement 5

27.11.1 Within 55 s from the setting of the REGH field to 1 the MS shall respond to the BSS on the RECC corresponding to channel A.

27.11.2 The data contained within the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see **8.3.2**) with the following exceptions:
 - 1) The T field shall be set to 1.
 - 2) The E field shall be set to 1.
- b) Word B, Extended Address Word (see **8.3.3**) with the following exceptions:
 - 1) The ORDER field shall be set to 01101 (Registration)
 - 2) The LOCAL field setting is arbitrary.

27.12 Procedure 6

27.12.1 If the receipt of the last bit of the MS registration message is less than 20 s from the setting of the REGH field to 1 (see **27.10**) then repeat steps **27.8** to **27.11.2** inclusive. After 4 repeats it is assumed that the MS would not respond in a time greater than 20 s.

27.12.2 If the receipt of the last bit of the MS registration message is more than 20 s from the setting of the REGH field to 1 the BSS sends a registration confirmation message on channel A. The BSS completes the sending of the message within 4.5 s of the receipt of the last bit of the MS registration message.

The registration confirmation message consists of two words and replaces any two adjacent control filler messages.

27.12.3 The registration confirmation message is as follows:

- a) Mobile Station Control Message Word 1 (see **6.3.14**).
- b) Mobile Station Control Message Word 2 — Extended Address Word Type B (see **6.3.16**) with the exception that the ORDER field is set to 01101 (Registration).

27.13 Response requirement 6

The MS shall not respond. After 140 s it shall be assumed that the MS would make no response.

28 Release and re-registration after failure

28.1 Description of test

The main purpose of this test is to confirm that the MS accepts a release message received in response to a registration request. It also checks that the MS re-registers after a registration failure. This test shall be performed immediately after the test described in clause **27**.

28.2 Procedure 1

28.2.1 The BSS continues to transmit on a single channel (channel A) which is the first channel of the dedicated control channel set of the MS preferred system i.e. channel number 23 or 323.

28.2.2 On channel A the BSS sends the following:

- a) Overhead Word 1 (see **6.3.2**) with the exception that the AID1 field is set to AID_p of the MS, with bit 8 inverted.
- b) Overhead Word 2 (see **6.3.3**).
- c) Registration Identification Message (see **6.3.5**) with the exception that the REGID field is set to 16900 (decimal).
- d) Control Filler Message (see **6.3.4**).

28.3 Response requirement 1

28.3.1 Within 3 min of the BSS sending the last bit of the registration identification message, the MS shall respond on the RECC corresponding to channel A.

28.3.2 The data contained in the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see **8.3.2**) with the following exceptions:
 - 1) The T field shall be set to 1.
 - 2) The E field shall be set to 1.
- b) Word B, Extended Address Word (see **8.3.3**) with the following exceptions:
 - 1) The ORDER field shall be set to 01101 (Registration).
 - 2) The LOCAL field setting is arbitrary.

28.4 Procedure 2

28.4.1 Within 4.5 s of the receipt of the last bit of the MS registration message the BSS completes the sending of a release message on channel A.

The release message consists of two words and replaces any two adjacent control filler words.

28.4.2 The release message is as follows:

- a) Mobile Station Control Message Word 1 (see **6.3.14**).
- b) Mobile Station Control Message Word 2 — Extended Address Word Type B (see **6.3.16**) with the exception that the ORDER field is set to 00011 (Release).

28.5 Response requirement 2

28.5.1 Between 5 s and 137 s after the BSS has sent the release message with ORDER field set to release, the MS shall respond to the BSS on the RECC corresponding to channel A.

28.5.2 The data contained in the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see **8.3.2**) with the following exceptions:
 - 1) The T field shall be set to 1.
 - 2) The E field shall be set to 1.
- b) Word B, Extended Address Word (see **8.3.3**) with the following exceptions:
 - 1) The ORDER field shall be set to 01101 (Registration).
 - 2) The LOCAL field setting is arbitrary.

28.6 Procedure 3

28.6.1 Within 4.5 s of the receipt of the last bit of the MS registration message the BSS completes the sending of a registration confirmation message on channel A.

The registration confirmation message consists of two words and replaces any two adjacent control filler messages.

28.6.2 The registration confirmation message is as follows:

- a) Mobile Station Control Message Word 1 (see **6.3.14**).
- b) Mobile Station Control Message Word 2 — Extended Address Word Type B (see **6.3.16**) with the exception that the ORDER field is set to 01101 (Registration).

28.6.3 The BSS changes the REGID field in the registration identification message (see **6.3.5**) to 17400 (decimal). This message is sent once and thereafter replaced in the overhead message train by a control filler message.

28.7 Response requirement 3

28.7.1 Within 3 min of the BSS sending the registration identification message with the REGID field having the value 17400 (decimal) the MS shall respond to the BSS on the RECC corresponding to channel A.

28.7.2 The data contained in the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see **8.3.2**) with the following exceptions:
 - 1) The T field shall be set to 1.
 - 2) The E field shall be set to 1.
- b) Word B, Extended Address Word (see **8.3.3**) with the following exceptions:
 - 1) The ORDER field shall be set to 01101 (Registration).
 - 2) The LOCAL field setting is arbitrary.

28.8 Procedure 4

The BSS does not confirm this registration, and thereby simulates a registration failure.

28.9 Response requirement 4

The MS shall not transmit on any channel. After 140 s it shall be assumed that the MS would not transmit.

28.10 Procedure 5

The BSS changes the REGID field in the registration identification message (see **6.3.5**) to 17410 (decimal). This message is inserted in the overhead message train, sent once and thereafter replaced by a control filler message.

28.11 Response requirement 5

28.11.1 Within 3 min of the BSS sending the registration identification message with the REGID field having the value 17410 (decimal), the MS shall respond to the BSS on the RECC corresponding to channel A.

28.11.2 The data contained in the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see **8.3.2**) with the following exceptions:
 - 1) The T field shall be set to 1.
 - 2) The E field shall be set to 1.
- b) Word B, Extended Address Word (see **8.3.3**) with the following exceptions:
 - 1) The ORDER field shall be set to 01101 (Registration).
 - 2) The LOCAL field setting is arbitrary.

28.12 Procedure 6

28.12.1 Within 4.5 s of the receipt of the last bit of the MS registration message the BSS completes the sending of a registration confirmation message on channel A.

The registration message consists of two words and replaces any two adjacent control filler messages.

28.12.2 The registration confirmation message is as follows:

- a) Mobile Station Control Message Word 1 (see **6.3.14**).
- b) Mobile Station Control Message Word 2 — Extended Address Word Type B (see **6.3.16**) with the exception that the ORDER field is set to 01101 (Registration).

Section 5. Overhead messages to all MS: new access channel set and RESCAN

29 MS to register on new access channel set

29.1 Description of test

The main purpose of this test is to confirm that the MS responds correctly to the new access channel set message (NEWACC) and gives it priority over the registration identification message which is in turn given priority over the rescan global action message.

29.2 Procedure 1

29.2.1 The BSS transmits, on two channels, channel A and B, the details of which are:

- a) Channel A is the first channel of the dedicated control channel set of the MS preferred system i.e. channel 23 or 323.
- b) Channel B is channel $(x - 1)$ where x is the channel capability of the MS, as defined by the MS SCM_p bit 3.
- c) The r.f. power level of channel A is set to RL [6.9].
- d) The r.f. power level of channel B is set to RL [6.9].

29.2.2 On channel A the BSS sends:

- a) Overhead Word 1 (see 6.3.2) with the exception that the AID1 field is set to AID_p of the MS with bit 3 inverted.
- b) Overhead Word 2 (see 6.3.3).
- c) Control Filler Message (see 6.3.4).

29.2.3 On channel B the BSS sends:

- a) Overhead Word 1 (see 6.3.2) with the exception that the AID1 field is set to AID_p of the MS with bit 3 inverted.
- b) Overhead Word 2 (see 6.3.3).
- c) Control Filler Message (see 6.3.4).

29.2.4 The MS is switched on to start the test.

29.2.5 The BSS waits 2 min to ensure that the MS is in the idle task.

29.2.6 On channel A, immediately following one occurrence of overhead word 2, the BSS sends the following:

- a) Rescan Global Action Message (see 6.3.6) with the exception that
 - 1) END field is set to 0.
 - 2) OHD field is set to 100.
- b) Control Filler Message (see 6.3.4).
- c) New Access Channel Set Global Action Message (see 6.3.8) with the exception that the END field is set to 0.
- d) Control Filler Message (see 6.3.4).
- e) Registration Identification Message (see 6.3.5) with the exception that the REGID field is set to 32 (decimal).

29.3 Response requirement

29.3.1 The MS shall respond to the BSS on the RECC corresponding to channel B.

29.3.2 The data contained within the RECC message shall be as follows:

- a) Word A, Abbreviated Address Word (see 8.3.2) with the following exceptions:
 - 1) The T field shall be set to 1.
 - 2) The E field shall be set to 1.
- b) Word B, Extended Address Word (see 8.3.3) with the following exceptions:
 - 1) The LOCAL field setting is arbitrary.
 - 2) The ORDER field shall be set to 01101 (Registration).