



SLOVENSKI STANDARD

DSIST EN 300 733:2000

01-Ubi Ur-2000

GUH]hg_UcgYVbU_ca i b]_UW]g_Uca fYyUfG!D7 BŁ!AcV]bYnYa Y'g_YdcgHUY
fA 9Głzj _`1 bc'nfc b]a]nYa Y'g]a]dcgHUYa]žnUG!D7 Bż_]XYi ^'c'j
ZY_j Yb b] dUgcj]%# ; <n>]b ca c[c Uc'nj c bc]b#U]dcXUh_cj bc
_ca i b]_UW]c'j 'c_j]fi 'a cV]b] gUH]hg]gHcf]HYj 'fA GGL

Satellite Personal Communications Networks (S-PCN); Mobile Earth Stations (MES), including handheld earth stations, for SPCN in the 1,6/2,4 GHz bands, providing voice and/or data communications under the Mobile Satellite Service (MSS)

Ta slovenski standard je istoveten z: EN 300 733 Version 1.1.1

ICS:

33.060.30 Radioreljni in fiksni satelitski komunikacijski sistemi Radio relay and fixed satellite communications systems

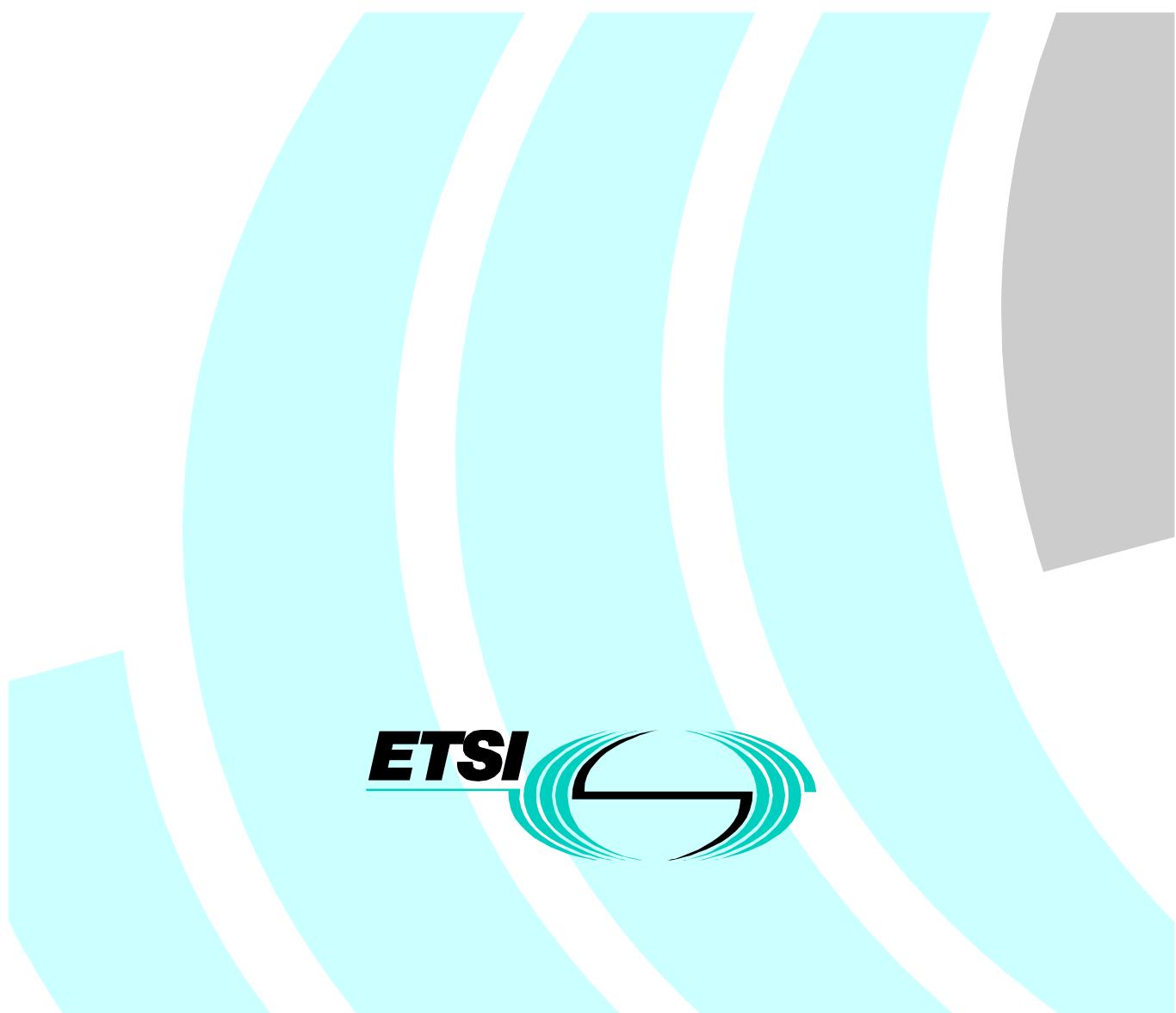
DSIST EN 300 733:2000

en

EN 300 733 V1.1.1 (1998-05)

European Standard (Telecommunications series)

**Satellite Personal Communications Networks (S-PCN);
Mobile Earth Stations (MES) including handheld earth
stations, for S-PCN in the 1,6/2,4 GHz bands,
providing voice and/or data communications under the
Mobile Satellite Service (MSS)**



Reference

DEN/SES-05009 (6sc00ico.PDF)

KeywordsS-PCN, mobile, satellite, service, MSS, earth
station, MES, multimode***ETSI***

Postal address

F-06921 Sophia Antipolis Cedex - FRANCE

Office address650 Route des Lucioles - Sophia Antipolis
Valbonne - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

Internetsecretariat@etsi.fr
<http://www.etsi.fr>
<http://www.etsi.org>

Copyright Notification

No part may be reproduced except as authorized by written permission.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 1998.
All rights reserved.

Contents

Intellectual Property Rights.....	6
Foreword	6
1 Scope	7
2 References	7
3 Definitions and abbreviations	8
3.1 Definitions	8
3.2 Abbreviations.....	9
4 General	10
4.1 Presentation of equipment for testing purposes	10
4.2 Description of equipment.....	10
4.3 Host-connected equipment.....	11
5 Unwanted emissions outside the band 1 610,0 to 1 626,5 MHz and the band 1 626,5 to 1 628,5 MHz (carrier-on)	11
5.1 Purpose	11
5.2 Conformance requirements.....	11
5.3 Method of test.....	12
5.3.1 Peak measurement.....	12
5.3.2 Average measurement	12
5.4 Test requirements.....	13
6 Unwanted emissions within the band 1 610,0 to 1 626,5 MHz and the band 1 626,5 to 1 628,5 MHz (carrier-on)	13
6.1 Purpose	13
6.2 Conformance requirements.....	13
6.3 Method of test.....	15
6.3.1 Measurement method	15
6.4 Test requirements.....	16
7 EIRP density within the operational band.....	16
7.1 Purpose	16
7.2 Conformance requirements	16
7.3 Method of test.....	16
7.3.1 Peak limit test	17
7.3.2 Mean limit test.....	17
7.4 Test requirements.....	17
8 Unwanted emissions in carrier-off state	18
8.1 Purpose	18
8.2 Conformance requirements	18
8.3 Method of test.....	18
8.3.1 Measurement method	18
8.4 Test requirements.....	19
9 MES Control and Monitoring Functions (CMF)	19
9.1 Special Test Equipment (STE).....	19
9.2 Self-monitoring functions	19
9.2.1 Processor monitoring.....	19
9.2.1.1 Purpose	19
9.2.1.2 Conformance requirements.....	19
9.2.1.3 Method of test.....	19
9.2.2 Transmit frequency generation sub-system monitoring.....	19
9.2.2.1 Purpose	19

9.2.2.2	Conformance requirements.....	20
9.2.2.3	Method of test.....	20
9.3	Network control authorization and reception.....	20
9.3.1	Network control authorization.....	20
9.3.1.1	Purpose	20
9.3.1.2	Conformance requirements.....	20
9.3.1.3	Method of test.....	20
9.3.1.4	Test procedure	20
9.3.1.5	Test requirement	21
9.3.2	Network control reception.....	21
9.3.2.1	Transmission disable/enable.....	21
9.3.2.1.1	Purpose	21
9.3.2.1.2	Conformance requirements	21
9.3.2.1.3	Method of test	21
9.3.2.1.4	Test procedure	21
9.3.2.1.5	Test requirement	22
9.3.2.2	Transmit frequency control.....	22
9.3.2.2.1	Purpose	22
9.3.2.2.2	Conformance requirements	22
9.3.2.2.3	Method of test	22
9.3.2.2.4	Test procedure	22
9.3.2.2.5	Test requirement	23
9.4	Fellow radio stations in a dual-mode or multi-mode terminal.....	23
9.4.1	Purpose.....	23
9.4.2	Conformance requirements	23
9.4.3	Method of test	23
9.4.4	Test procedure.....	23
9.4.5	Test requirements.....	23
10	Equipment identity	24
10.1	Purpose	24
10.2	Conformance requirements	24
10.3	Method of test	24
10.4	Test procedure	24
10.5	Test requirements.....	24
11	Protection of the radio astronomy service operation in the band 1 610,6 to 1 613,8 MHz	24
11.1	Purpose	24
11.2	Conformance requirements	25
11.3	Method of test	25
11.4	Test procedure	25
11.5	Test requirement	25
Annex A (normative):	General test requirements	26
A.1	MES test modes	26
A.2	Special Test Equipment (STE).....	26
A.2.1	STE description	26
A.2.2	Use of STE for control and monitoring functions tests.....	26
A.2.3	Test modulating signal.....	27

A.3	Laboratory Test Equipment (LTE)	27
A.4	Methods of test for MES RF emissions	28
A.5	Interpretation of the measurement results	28
A.6	Test report	28
Annex B (normative):	Environmental conditions and host connected equipment	29
B.1	General	29
B.2	Environmental requirements	29
B.2.1	Temperature	29
B.2.2	Voltage.....	29
B.2.3	Vibration.....	29
B.3	Environmental test conditions.....	29
B.3.1	Specification of the environmental test conditions	29
B.3.2	Tests under extreme voltage conditions	30
B.4	Testing of host-connected equipment and plug-in modules	30
B.4.1	Alternative A: combined equipment	30
B.4.2	Alternative B: use of a test jig.....	30
Annex C (normative):	Procedures for measurement of radiated emissions	31
C.1	General	31
C.1.1	Test site.....	31
C.1.2	Test set up for radiated emissions of the MES.....	31
C.1.3	Reference position of the MES	32
C.2	Measurement procedure for radiated emissions (peak)	32
C.2.1	Measurement procedure for peak radiated emissions of the MES	32
C.2.2	Measurement procedure for peak radiated emissions of the cabinet.....	34
C.3	Measurement procedure for radiated emissions (average)	34
C.3.1	Measurement procedure for average radiated emissions of the MES	34
C.3.2	Measurement procedure for average radiated emissions of the cabinet	35
Annex D (normative):	Procedures for measurement of conducted emissions	36
D.1	General	36
D.1.1	Test site.....	36
D.1.2	Test set-up.....	36
D.2	Measurement procedure for conducted emissions (peak).....	36
D.3	Measurement procedure for conducted emissions (average).....	37
Annex E (informative):	Explanation of nominated bandwidth	38
E.1	Introduction	38
E.2	Interpretation of parameters (B_n , f_c , a, b).....	38
E.3	Choice of nominated bandwidth	38
E.4	Maximum value for nominated bandwidth	40
Annex F (informative):	Bibliography	43
History	44	

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETR 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available **free of charge** from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<http://www.etsi.fr/ipr> or <http://www.etsi.org/ipr>).

Pursuant to the ETSI Interim IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETR 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Satellite Earth Stations and Systems (SES).

The maintenance of the present document and in particular the values of the table 2 will take into account the results of the studies undertaken in accordance with the ITU-R Recommendation M.8/BL/27.

Proposed national transposition dates	
Date of adoption of this EN:	1 May 1998
Date of latest announcement of this EN (doa):	31 August 1998
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	28 February 1999
Date of withdrawal of any conflicting National Standard (dow):	28 February 1999