

ICS 47.020.70

CCS U 66



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 37656-2019

**Maritime navigation and radiocommunication equipment and systems -
VHF radiotelephone equipment incorporating Class D Digital Selective
Calling (DSC) - Methods of testing and required test results**

Issued on: June 4, 2019

Implemented on: January 1, 2020

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

Foreword

1 Scope

2 Normative references

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the translation method equivalent to IEC 62238.2003 "Marine navigation and radio communication equipment and systems D-level digital selection

Sexual Call (DSC) Very High Frequency (VHF) Radiotelephone Test Method and Required Test Results.

This standard has made the following editorial changes.

--- The sequence of Figure 3 and Figure 4 quoted in the English standard is incorrect and has been adjusted;

--- Added the informative Appendix NA "China Radio Frequency Band Division".

This standard is proposed and managed by the National Marine Electrical and Electronic Equipment Standardization Technical Committee (SAC/TC531).

This standard was drafted. China Shipbuilding Industry Comprehensive Technology and Economic Research Institute, Guangzhou Zhonghai Telecom Co., Ltd., Dalian Haida Ship Navigation

National Engineering Research Center Co., Ltd.

1 Scope

This standard specifies general communication for shipboard fixed equipment using Class D digital selective calling (DSC) Very High Frequency (VHF) radiotelephones.

Basic requirements.

These requirements contain and incorporate the relevant provisions of the ITU Radio Regulations and Recommendation ITU-RM.493-10 defining Class D equipment.

Relevant guidelines detailed in resolutions IMOMSC/Circ.803, MSC/Circ.862 and MSC.131(75).

This standard also specifies the technical characteristics, test methods and test results of the equipment and system.

Appendix D describes the recommended standards for working equipment in a strong electromagnetic environment.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

IEC 60945 maritime navigation and radiocommunication equipment and systems generally require test methods and test results

(Maritimenavigationandradiocommunicationequipmentandsystems-Generalrequirements-Meth-

Odsoftestingandrequiredtestresults)

Maritime navigation and radiocommunication equipment and systems - Digital interface - Part 1. Single and multi-speakers

(Maritimenavigationandradiocommunicationequipmentandsystems-Digitalinterfaces-Part 1. Singletalkerandmultiplelisteners)

IMOMSC.131(75).2002 SOLAS ships on the sea maintain continuous monitoring on VHF channel 16 and in non-SOLAS

Installation of VHF digital selective calling equipment on board
(MaintenanceofacontinuouslisteningwatchonVHFchannel

16bySOLASshipswhilstatseaandinstalationofVHFDSCfacilitiesonnon-SOLASships)

IMOMSC/Circ.803 Non-SOLAS ships participate in the Global Maritime Distress and Safety System [Participationofnon-SOLAS

shipsintheGlobalMaritimeDistressandSafetySystem(GMDSS)]

IMOMSC/Circ.862 Some requirements for GMDSS equipment performance standards
(Clarificationsofcertainrequirementsin

IMOperformancestandardsforGMDSEquipment)

ITU Radio Regulations Appendix S18.1998, Transmission Frequency Table for the 156 MHz to 174 MHz Band of the Maritime Mobile Service Station

(Tableoftransmittingfrequenciesintheband156-174MHzforstationsinthemaritimemobile

Service)

Recommendation ITU-R.493-10 Digital selective calling system for use in the maritime mobile service (Digitalselective-calingsys-

Temforuseinthemaritimemobileservice)

Optional extension of the ITU-RM.821-1.1997 Recommendation for digital selective calling systems for the maritime mobile service (Optional

Expansionofthedigitalselective-calingsystemforuseinthemaritimemobileservice)