

CST Technical Specification

Specification for MF, HF and VHF Maritime Equipment

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This technical specification is issued by The Communications, Space and Technology Commission in the Kingdom of Saudi Arabia in accordance with the provisions of the Communications and Information Technology Act issued by Royal Decree No. (M/106) dated 02/11/1443 AH and its bylaw, and the Commission's regulation.

Communications, Space and Technology Commission (CST)
P.O Box 75606 – Riyadh 11588 - Kingdom of Saudi Arabia

Telephone: + 966 1 14618000 Fax: + 966 1 14618120 E-mail: info@cst.gov.sa Website: www.cst.gov.sa

Document History Table

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1- Scope

- 1-1 This specification applies to MF, HF and VHF (including portable)

 Maritime and Ancillary equipment.
- 1-2 The medium, high and very high frequency maritime equipment is used to wirelessly communicate in the maritime sector.

2- Enforcement

- 2-1 This specification shall enter into force from issue date.
- 2-2 Any previous version of this technical specification is withdrawn.

3- General Requirements

- 3-1 All equipment must comply with the requirement of CST specification GEN001, be safe and must not adversely affect other electrical equipment.
- 3-2 All telecommunications and radio terminal equipment must comply with the relevant technical specifications established by CST. In addition, such equipment may be subject to regulations for Declaration of Conformity or registration. Please visit CST website for details.
- 3-3 If more than one interface type is offered by a piece of equipment, each interface must meet the applicable technical specifications.
- 3-4 Further information on the characteristics and presentation of network interfaces can be obtained by coordinating with the mobile network operators.
- 3-5 It is mandatory that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

4-Limits and conditions

Testing should be carried out to ensure compliance with the listed specifications:

Frequency band	Max Output Power or Magnetic Field	Usage	Standard	Comments
1606.5 – 4000 kHz	400 W	MF maritime communicati ons	EN 301 033 EN 300 373-1 EN 300 338 EN 301843-5	
4000 – 27500 kHz	1.5 kW	HF maritime communicati ons	EN 301 033 EN 300 373-1 EN 300 338 EN 301843-5	
156 – 162.025 MHz	25 W	VHF maritime	EN 301 178 EN 300 162 EN 301 025 EN 302 885 EN 301 843-2 EN 300 225 EN 301 929	

5- Licensing Requirements

A device license must be obtained before equipment of this type can be used in the Kingdom.

6- Additional Requirements

MF, MF/HF and VHF maritime equipment are subject for device registration requirements.

7- References

The following referenced documents are indispensable for the application of this document. If no issue or revision number is quoted along with the title of a technical specification or standard, the latest published version should be used.

EN 301 178

Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands (for non-GMDSS applications only); Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

EN 300 162-3

Electromagnetic compatibility and Radio spectrum Matters (ERM); Radiotelephone transmitters and receivers for the maritime mobile service operating in VHF bands; Part 3: Harmonized EN covering essential requirements of article 3.3 (e) of the R&TTE Directive

EN 300 162-2

Electromagnetic compatibility and Radio spectrum Matters (ERM); Radiotelephone transmitters and receivers for the maritime mobile service operating in VHF bands; Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive

EN 300 162-1

Electromagnetic compatibility and Radio spectrum Matters (ERM); Radiotelephone transmitters and receivers for the maritime mobile service operating in VHF bands; Part 1: Technical characteristics and methods of measurement

EN 301 025

VHF radiotelephone equipment for general communications and associated equipment for Class "D" Digital Selective Calling (DSC); Harmonised Standard covering the essential requirements of articles 3.2 and 3.3(g) of Directive 2014/53/EU

EN 302 885

Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated handheld class H DSC; Harmonised Standard covering the essential requirements of articles 3.2 and 3.3(g) of Directive 2014/53/EU

EN 301843-2

ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services; Harmonised Standard for electromagnetic compatibility; Part 2: Specific conditions for VHF radiotelephone transmitters and receivers

EN 300 225

Electromagnetic compatibility and Radio spectrum Matters (ERM); Technical characteristics and methods of measurement for survival craft portable VHF radiotelephone apparatus

EN 301 929-1

Electromagnetic compatibility and Radio spectrum Matters (ERM); VHF transmitters and receivers as Coast Stations for GMDSS and other applications in the maritime mobile service; Part 1: Technical characteristics and methods of measurement