



UK Approved Body Authorised  
by the MCA



## Marine Equipment UK Assessment Module B Type Examination Certificate

This is to certify that TUV SUD BABT UNLIMITED did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, under Annex 1 of the listed Amendment of MSN 1874 for the types of equipment identified.

<b>MSN 1874 Amendment</b>	<b>Amendment 6</b>
<b>Certificate Holder and Manufacturer</b>	<b>Thrane &amp; Thrane A/S Lundtoftegaardsvej 93 D DK-2800 Kgs. Lyngby Denmark</b>
<b>Product(s)</b>	<b>SAILOR SP3520 McMurdo R5</b>
<b>Product Sector</b>	<b>Radio-communication</b>
<b>Product Type</b>	<b>UK/5.17 Portable survival craft two-way VHF radiotelephone apparatus</b>

and on the basis of the Technical Data and information detailed in the Annex to this certificate.

Valid from: 14 November 2022 (Signature) *M Hardy* Expiry Date: 13 November 2027

This certificate has been issued in accordance with the TÜV SÜD Testing and Certification Regulations and constitutes page 1 of the combined Certificate and Annex.  
The Conditions for the validity of this certificate are listed in the Annex.  
For further details, related to this certification please contact [BABT@tuvsud.com](mailto:BABT@tuvsud.com)



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# Annex to Marine Equipment UK Conformity Assessment Module B Type Examination Certificate

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## 1 Equipment Description

Portable survival craft two-way VHF radiotelephone apparatus

### 1.1 Models

Model
SAILOR SP3520
McMurdo R5

#### 1.1.1 System Components

SAILOR Model	McMurdo Model	Description
SAILOR SP3520	TT-1709A	VHF Survival Craft (GMDSS)
SAILOR B3501	TT-1708A	Primary battery (yellow, non-rechargeable)
SAILOR B3502	TT-1707A	Secondary battery (black, rechargeable)
SAILOR CH3507	TT-1704A	Charger
88-125538	88-125538	AC/DC converter, length 150cm (100-240V~ /12VDC out)
88-125538	88-124370	Antenna

#### 1.1.2 Optional Components

Model	Description
CH3508 / TT-1708A	Dual Position Charger
Savox 400E with Savox Noise-com NC/400	Interface cable with headset
Savox 400E with Savox HC-E	Interface cable with Helmet unit
Savox C500 with Savox Noise-com NC/400	Interface cable with headset
Savox C500 with Savox HC-E	Interface cable with Helmet unit
Savox C500 with Savox HC1	Interface cable with Helmet unit
Peltor FL5214 with Peltor MT7H79	Interface cable with headset

### 1.2 Software

Identity	Description
2.00.xxx	Radio software

# Annex to Marine Equipment UK Conformity Assessment Module B Type Examination Certificate

## 2 Assessed Requirements

### 2.1 MSN 1874 Amendment 6 Annex 1

### 2.2 Compliance Requirements for UK/5.17

IMO Resolutions	International Testing Standards	
Resolution A694(17)	IEC 60945:2002 inc. Corr.1:2008	General Requirements for Marine Navigation Equipment
	ETSI EN 301 843-2 V2.2.1:2017-11	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
IMO Res.A.809(19)	ETSI EN 300 225 V1.5.1:2015-12	Electromagnetic compatibility and Radio spectrum Matters (ERM); Technical characteristics and methods of measurement for survival craft portable VHF radiotelephone apparatus
IMO Res.MSC.149(77)		
ITU-R M.489-2 (10/95)		

## 3 Technical Documentation

### 3.1 Declaration of Conformity

99-182361-A Declaration of Conformity SAILOR SP3520 VHF GMDSS_UK MED	Modified	2022-10-31
99-182362-A Declaration of Conformity McMurdo R5 VHF GMDSS_UK MED - TUV SUD_Draft 01	Modified	2022-10-31

### 3.2 User Guide

SAILOR SP3520 Portable VHF GMDSS 98-124294-K	Dated	2016-12-01
McMurdo R5 GMDSS VHF Handheld Radio 98-137396-MCM-J02	Dated	2022-03-08

### 3.3 Test Reports

#### 3.3.1 IEC 60945:2002 inc. Corr.1:2008

99788220	Dated	2007-04-05
DANAK-19K0457	Dated	2007-06-15
DANAK-19K0469	Dated	2007-09-18
E11128.00	Dated	2011-08-01
180514	Dated	2012-04-11

#### 3.3.2 ETSI EN 301 843-2 V2.2.1:2017-11

99-175132-A_Statement_Sailor_SP3520_SP3540_EN301843-2v221_compliance	Dated	2018-06-05
DANAK-19/18030	Dated	2017-06-26
99788220	Dated	2007-04-05
180514	Dated	2012-04-11

#### 3.3.3 ETSI EN 300 225 V1.5.1:2015-12

99788230 Rev 2.0	Dated	2007-04-03
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## 3.4 Build Status

### 3.4.1 Hardware

Diagram Transceiver 93-123533-U	Dated	2018-11-12
Diagram battery connector tt93-124103-b	Dated	2006-11-09
Assembly 97-155865	Dated	2017-02-08
System Architecture VHF_HH	Dated	2022-09-28
59-124103_Battery Connector Module_BOM_Rev C_02	Dated	2016-11-22
59-123533_Transceiver Module_SP3510_20_BOM_Rev K_10	Dated	2016-11-22

### 3.5 Notes

Note 1 This approval remains valid for equipment including subsequent minor software amendments which have been formally accepted in accordance with the TÜV SÜD Testing and Certification Regulations.

## 4 Conditions of Validity

This certificate ceases to be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with TUV SUD BABT or a person appointed by TUV SUD BABT to perform that role.

Should the specified regulations (international conventions and the relevant resolutions and circulars of the IMO) or standards be amended and enforced through MSN 1874 during the validity of this certificate, the product(s) is/are to be reapproved prior to it/them being placed on the market or onboard vessels to which the amended regulations or standards apply.

The Mark of Conformity may only be affixed to the above type approved equipment and a manufacturer's Declaration of Conformity issued when the production-control phase module (D, E, or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body.

Signature:

  
(Michelle Hardy)

Date:

14/11/2022

On behalf of TUV SUD BABT UNLIMITED