Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Set the EUT and TE in standby and be sure that the automatic acknowledgement feature of the TE is turned off. From the EUT send a Group DSC call on the frequency 4208.0 kHz with priority routine requesting radio telephone. On HF select channel 4146.0 kHz. Verify that:

Item Group call	Result		Com-ment
	YES	NO	
the EUT indicates that it is transmitting, [ETSI EN 300 338-2, n.6.6.3,g(2)]	X		
the information content of the initial DSC message is displayed or available on the EUT which is: 1) the type of DSC message (description); 2) the priority of the DSC message; 3) the destination; 4) the means of subsequent communication or purpose; 5) the frequencies of subsequent communication if any (4146.0 kHz); 6) on HF the frequency of the sent DSC message (4208.0 kHz); 7) whether or not the DSC message requires an acknowledgement; [ETSI EN 300 338-2, n.6.6.3,d]		X	(33)
upon completion of the transmission the EUT states that it is 'lincked for communication', [ETSI EN 300 338-2, n.6.6.3,g(5)]	X		
The fact one is engaged in sending a non distress DSC message is displayed, [ETSI EN 300 338-2, n.6.6.3,a]	X		
the time since sending the initial DSC message is displayed, [ETSI EN 300 338-2, n.6.6.3,c]	X		
the option to resend the initial DSC message is available, [ETSI EN 300 338-2, n.6.6.2,b(4),i] [Rec.ITU-R M.493-13,Ann.4, n.3.2.2.2.1]	X		
the option to activate/place the procedure on hold is available, [ETSI EN 300 338-2, n.6.6.2,b(4),ii]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.6.2,b(4),iii]	X		
the received non distress DSC procedure is started on the TE,	X		
the information content displayed on the TE corresponds to that displayed on the EUT, [ETSI EN 300 338-2, n.6.6.3,d]	X		
the elapsed time, stage, and operator options are visible at top level on the EUT, [ETSI EN 300 338-2, n.6.6.3]	X		
Transmitter is tuned to the frequency 4146.0 kHz [ETSI EN 300 338-2, n.6.6.6]	X		
you can speak to the TE from the EUT on 4146.0 kHz, [ETSI EN 300 338-2, n.6.6.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

(32) (E175)
In the window VIEW of the information content of the initial Geographic area DSC message is no information on “whether or not the DSC message requires an acknowledgement”.
[ETSI EN 300 338-2, n.6.6.3,d(7)]

(33) (E181)
In the window VIEW of the information content of the initial Group DSC call is no information on “whether or not the DSC message requires an acknowledgement”.
[ETSI EN 300 338-2, n.6.6.3,d(7)]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

7.6. Delayed Acknowledgements able to comply after terminating sending non distress procedure test

[ETSI EN 300 338-2, n.6.6.7]

If an acknowledgement to a sending non distress automated procedure is received after the procedure has been prematurely terminated, the automated procedure shall initiate itself recreating the initial DSC message based upon the acknowledgement. The procedure shall inform the operator that "an acknowledgement we quit waiting for" has been received. If the acknowledging station changed the frequency or communication mode, the original values will not be known but shall be assumed to be that present in the acknowledgement. If the acknowledging station responded with "unable to comply" all the original communication information will be unknown in which case the initial DSC message shall be assumed to have been radiotelephone on any legal frequency.

[ETSI EN 300 338-2, n.6.6.7]

2.1.13.1 If the ship station is not equipped for automatic DSC operation, the ship's operator initiates an acknowledgement to the coast station after a delay of at least 5 s but no later than 4 ½ min of receiving the calling sequence, using the ship-to-shore calling procedures detailed in § 2.2. However the transmitted sequence should contain a "BQ" end of sequence signal in place of the "RQ" signal.
If such an acknowledgement cannot be transmitted within 5 min of receiving the calling sequence then the ship station should instead transmit a calling sequence to the coast station using the ship-to-shore calling procedure detailed in § 2.2.

[Rec.ITU-R M.541-9, Ann.2, n.2.1.13.1]

2.2.6 The coast station should transmit an acknowledgement sequence (after checking as far as possible that there are no calls in progress on the frequency selected), after a delay of at least 5 s but not later than 4 ½ min for manual connections, or, within 3 s for semi-automatic/automatic connections, containing the format specifier, the address of the ship, the category, the coast station self-identification and:…..

[Rec.ITU-R M.541-9, Ann.2, n.2.2.6]

a) Reset EUT into Standby. Set maximum value of termination timeout. From EUT to TE send on the frequency 4208.0 kHz Individual routine RT call channel 4146.0 kHz. Verify that:

Item	Result		Com-ment
	YES	NO	
the EUT indicates that it is waiting for a acknowledgement, [ETSI EN 300 338-2, n.6.6.3,g]	X		
Termination the procedure manualy is possibly Terminate the procedure.	X		
the EUT returns to standby when the time elapses.	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Acknowledge the EUT from the TE with "able to comply" (within 4.5 min), Verify that:

Item (Delayed acknowledgement – Able to comply)	Result		Com-ment
	YES	NO	
the routine acknowledgement alarm sounds on the EUT, [ETSI EN 300 338-2, n.6.6.5]	X		
the reason for and means to silence the alarm is displayed on the EUT, [ETSI EN 300 338-2, n.6.6.5]	X		
If an acknowledgement to a sending non distress automated procedure is received after the procedure has been prematurely terminated, the automated procedure shall initiate itself recreating the initial DSC message based upon the acknowledgement. [ETSI EN 300 338-2, n.6.6.7]	X		
The procedure shall inform the operator that "an acknowledgement we quit waiting for" has been received. [ETSI EN 300 338-2, n.6.6.7]	X		
the information content of the acknowledgement is displayed or available on the EUT which is: 1) the means of subsequent communication or the requested information; 2) if appropriate the mode/frequency change or unable to comply and reason; 3) the frequencies of subsequent communication if any; [ETSI EN 300 338-2, n.6.6.3,e]	X		
The fact one is engaged in sending a non distress DSC message is displayed, [ETSI EN 300 338-2, n.6.6.3,a]	X		
the time since being acknowledged is displayed, [ETSI EN 300 338-2, n.6.6.3,c]	X		
The option to resend the initial DSC message is no longer available on the EUT, [ETSI EN 300 338-2,n.6.6.2,b(4),i]	X		
The option to activate/place the procedure on hold is available, [ETSI EN 300 338-2,n.6.6.2,b(4),ii]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.6.2,b(4),iii]	X		
the EUT indicates that it has been acknowledged or that communications are ready, [ETSI EN 300 338-2, n.6.6.3,g(5)]	X		
you can speak to the TE from the EUT on 4146 kHz, [ETSI EN 300 338-2,n.6.6.6]	X		
you can speak to the EUT from the TE on 4146 kHz. [ETSI EN 300 338-2,n.6.6.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Reset EUT into Standby. Set maximum value of termination timeout. From EUT to TE send on the frequency 4208.0 kHz Individual routine RT call channel 4146.0 kHz. Verify that:

Item	Result		Com-ment
	YES	NO	
the EUT indicates that it is waiting for a acknowledgement, [ETSI EN 300 338-2, n.6.6.3,g]	X		
Termination the procedure manualy is possibly Terminate the procedure.	X		
the EUT returns to standby.	X		

Acknowledge the EUT from the TE with “able to comply” (after a delay more than 4.5 minutes), Verify that:

Item (Delayed acknowledgement – Able to comply)	Result		Com-ment
	YES	NO	
Acknowledgement is rejected by EUT. [ETSI EN 300 338-2, n.6.6.7] [Rec.ITU-R M.541-9, Ann.2, n.2.1.13.1]	X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

7.7. Delayed Acknowledgements able to comply with "comply with frequency change" after terminating sending non distress procedure test

[ETSI EN 300 338-2, n.6.6.7]

If an acknowledgement to a sending non distress automated procedure is received after the procedure has been prematurely terminated, the automated procedure shall initiate itself recreating the initial DSC message based upon the acknowledgement. The procedure shall inform the operator that "an acknowledgement we quit waiting for" has been received. If the acknowledging station changed the frequency or communication mode, the original values will not be known but shall be assumed to be that present in the acknowledgement. If the acknowledging station responded with "unable to comply" all the original communication information will be unknown in which case the initial DSC message shall be assumed to have been radiotelephone on any legal frequency.

[ETSI EN 300 338-2, n.6.6.7]

2.1.13.1 If the ship station is not equipped for automatic DSC operation, the ship's operator initiates an acknowledgement to the coast station after a delay of at least 5 s but no later than 4 ½ min of receiving the calling sequence, using the ship-to-shore calling procedures detailed in § 2.2. However the transmitted sequence should contain a "BQ" end of sequence signal in place of the "RQ" signal.
If such an acknowledgement cannot be transmitted within 5 min of receiving the calling sequence then the ship station should instead transmit a calling sequence to the coast station using the ship-to-shore calling procedure detailed in § 2.2.

[Rec.ITU-R M.541-9, Ann.2, n.2.1.13.1]

2.2.6 The coast station should transmit an acknowledgement sequence (after checking as far as possible that there are no calls in progress on the frequency selected), after a delay of at least 5 s but not later than 4 ½ min for manual connections, or, within 3 s for semi-automatic/automatic connections, containing the format specifier, the address of the ship, the category, the coast station self-identification and:…..

[Rec.ITU-R M.541-9, Ann.2, n.2.2.6]

a) Reset EUT into Standby. Set maximum value of termination timeout. From EUT to TE send on the frequency 4208.0 kHz Individual routine RT call channel 4146.0 kHz. Verify that:

Item	Result		Com-ment
	YES	NO	
the EUT indicates that it is waiting for a acknowledgement, [ETSI EN 300 338-2, n.6.6.3,g]	X		
Termination the procedure manualy is possibly Terminate the procedure.	X		
the EUT returns to standby.	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Change the working channel to 4149.0 kHz. Acknowledge the EUT from the TE with "able to comply" (within 4.5 min), Verify that:

Item (Delayed acknowledgement – Able to comply with frequency change)	**Result**		**Com-ment**
	YES	**NO**	
the routine acknowledgement alarm sounds on the EUT, [ETSI EN 300 338-2, n.6.6.5]	**X**		
the reason for and means to silence the alarm is displayed on the EUT, [ETSI EN 300 338-2, n.6.6.5]	**X**		
If an acknowledgement to a sending non distress automated procedure is received after the procedure has been prematurely terminated, the automated procedure shall initiate itself recreating the initial DSC message based upon the acknowledgement. [ETSI EN 300 338-2, n.6.6.7]	**X**		
The procedure shall inform the operator that "an acknowledgement we quit waiting for" has been received. [ETSI EN 300 338-2, n.6.6.7]	**X**		
If the acknowledging station changed the frequency or communication mode, the original values will not be known but **shall be assumed to be that present in the acknowledgement**.(It is new the information content of the initial DSC message for displayed?) [ETSI EN 300 338-2, n.6.6.7]	**X**		
the information content of the acknowledgement is displayed or available on the EUT which is: 1) the means of subsequent communication or the requested information; 2) if appropriate the mode/frequency change or unable to comply and reason; 3) the frequencies of subsequent communication if any; [ETSI EN 300 338-2, n.6.6.3,e]	**X**		
The fact one is engaged in sending a non distress DSC message is displayed, [ETSI EN 300 338-2, n.6.6.3,a]	**X**		
the time since being acknowledged is displayed, [ETSI EN 300 338-2, n.6.6.3,c]	**X**		
The option to resend the initial DSC message is no longer available on the EUT, [ETSI EN 300 338-2,n.6.6.2,b(4),i]	**X**		
The option to activate/place the procedure on hold is available, [ETSI EN 300 338-2,n.6.6.2,b(4),ii]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.6.2,b(4),iii]	**X**		
the EUT indicates that it has been acknowledged or that communications are ready, [ETSI EN 300 338-2, n.6.6.3,g(5)]	**X**		
you can speak to the TE from the EUT on 4149.0 kHz, [ETSI EN 300 338-2,n.6.6.6]	**X**		
you can speak to the EUT from the TE on 4149.0 kHz. [ETSI EN 300 338-2,n.6.6.6]	**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

7.8. Delayed Acknowledgements Unable to comply after terminating sending non distress procedure test

[ETSI EN 300 338-2, n.6.6.7]

If an acknowledgement to a sending non distress automated procedure is received after the procedure has been prematurely terminated, the automated procedure shall initiate itself recreating the initial DSC message based upon the acknowledgement. The procedure shall inform the operator that "an acknowledgement we quit waiting for" has been received. If the acknowledging station changed the frequency or communication mode, the original values will not be known but shall be assumed to be that present in the acknowledgement. If the acknowledging station responded with "unable to comply" all the original communication information will be unknown in which case the initial DSC message shall be assumed to have been radiotelephone on any legal frequency.

[ETSI EN 300 338-2, n.6.6.7]

2.1.13.1 If the ship station is not equipped for automatic DSC operation, the ship's operator initiates an acknowledgement to the coast station after a delay of at least 5 s but no later than 4 ½ min of receiving the calling sequence, using the ship-to-shore calling procedures detailed in § 2.2. However the transmitted sequence should contain a "BQ" end of sequence signal in place of the "RQ" signal.
If such an acknowledgement cannot be transmitted within 5 min of receiving the calling sequence then the ship station should instead transmit a calling sequence to the coast station using the ship-to-shore calling procedure detailed in § 2.2.

[Rec.ITU-R M.541-9, Ann.2, n.2.1.13.1]

2.2.6 The coast station should transmit an acknowledgement sequence (after checking as far as possible that there are no calls in progress on the frequency selected), after a delay of at least 5 s but not later than 4 ½ min for manual connections, or, within 3 s for semi-automatic/automatic connections, containing the format specifier, the address of the ship, the category, the coast station self-identification and:…..

[Rec.ITU-R M.541-9, Ann.2, n.2.2.6]

a) Reset EUT into Standby. Set maximum value of termination timeout. From EUT to TE send on the frequency 4208.0 kHz Individual routine RT call channel 4146.0 kHz. Verify that:

Item	Result		Com-ment
	YES	NO	
the EUT indicates that it is waiting for a acknowledgement, [ETSI EN 300 338-2, n.6.6.3,g]	X		
Termination the procedure manualy is possibly Terminate the procedure.	X		
the EUT returns to standby.	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Acknowledge the EUT from the TE with "Unable to comply" (within 4.5 min), Verify that:

Item (Delayed acknowledgement – Unable to comply)	**Result**		**Com-ment**
	YES	**NO**	
the routine acknowledgement alarm sounds on the EUT, [ETSI EN 300 338-2, n.6.6.5]	**X**		
the reason for and means to silence the alarm is displayed on the EUT, [ETSI EN 300 338-2, n.6.6.5]	**X**		
If an acknowledgement to a sending non distress automated procedure is received after the procedure has been prematurely terminated, the automated procedure shall initiate itself recreating the initial DSC message based upon the acknowledgement. [ETSI EN 300 338-2, n.6.6.7]	**X**		
The procedure shall inform the operator that "an acknowledgement we quit waiting for" has been received. [ETSI EN 300 338-2, n.6.6.7]	**X**		
If the acknowledging station responded with "unable to comply" all the original communication information will be unknown in which case the initial DSC message **shall be assumed to have been radiotelephone on any legal frequenc**y (It is new the information content of the initial DSC message for displayed?) [ETSI EN 300 338-2, n.6.6.7]	**X**		
the information content of the acknowledgement is displayed or available on the EUT which is: 1) the means of subsequent communication or the requested information; 2) if appropriate the mode/frequency change or unable to comply and reason; 3) the frequencies of subsequent communication if any; [ETSI EN 300 338-2, n.6.6.3,e]	**X**		
The fact one is engaged in sending a non distress DSC message is displayed, [ETSI EN 300 338-2, n.6.6.3,a]	**X**		
the time since being acknowledged is displayed, [ETSI EN 300 338-2, n.6.6.3,c]	**X**		
The option to resend the initial DSC message is no longer available on the EUT, [ETSI EN 300 338-2,n.6.6.2,b(4),i]	**X**		
The option to activate/place the procedure on hold is available, [ETSI EN 300 338-2,n.6.6.2,b(4),ii]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.6.2,b(4),iii]	**X**		
the EUT indicates that it has been acknowledged, [ETSI EN 300 338-2, n.6.6.3,g(5)]	**X**		
EUT no tune to the preposed channel (4146.0 kHz), [ETSI EN 300 338-2,n.6.6.6]	**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

7.9. Acknowledge Alarms of Sending non distress automated procedure test

[ETSI EN 300 338-2 (2010-02), n.6.6.5]
[ETSI EN 300 338-2 (2010-02), Annex D]

The reception of the first acknowledgement pertinent to the procedure shall sound the appropriate acknowledgement alarm as specified in tables D.1 and D.2.
Any subsequent acknowledgement may be ignored as only individually addressed non distress DSC messages have acknowledgements.

[ETSI EN 300 338-2, n.6.6.5]

Reset EUT into Standby. From EUT to TE send on the frequency 16 805 kHz Individual routine RT call channel 16 528 kHz.Verify that:

Item **Routine DSC call**	**Result**		**Com-ment**
	YES	**NO**	
the EUT indicates that it is waiting for a reply, [ETSI EN 300 338-2, n.6.6.3,g(3)]	**X**		
the time since sending the initial DSC message is displayed, [ETSI EN 300 338-2, n.6.6.3,b]	**X**		

Acknowledge on the frequency 16 903 kHz the EUT from the TE with “able to comply” (within 4.5 min), Verify that:

Item	**Result**		**Com-ment**
	YES	**NO**	
the Routine acknowledgement alarm sounds on the EUT, [ETSI EN 300 338-2, n.6.6.5]	**X**		
the reason for and means to silence the alarm is displayed on the EUT, [ETSI EN 300 338-2, n.6.6.5]	**X**		
The information content of the acknowledgement is displayed or available on the EUT, [ETSI EN 300 338-2, n.6.6.3,e]	**X**		
the time since being acknowledged is displayed, [ETSI EN 300 338-2, n.6.6.3,c]	**X**		
you can speak to the TE from the EUT (16 528 kHz),	**X**		
you can speak to the EUT from the TE (16 528 kHz). [ETSI EN 300 338-2, n.6.6.6]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Repeat acknowledge the EUT from the TE with "able to comply" (within 4.5 min), Verify that:

Item	Result		Com-ment
	YES	NO	
Any subsequent acknowledgement may be ignored as only individually addressed non distress DSC messages have acknowledgements. [ETSI EN 300 338-2, n.6.6.5]	X		NOTE 1
If it no ignored than All received subsequent acknowledgement should sound a brief, self-terminating alarm to inform the operator of the reception. [ITU-R M.493-13, Ann.4, n.3.1.1.3; n.3.1.1.4]	X		
the time since being acknowledged is not changed [ETSI EN 300 338-2, n.6.6.3,c].	X		

NOTE 1
Any subsequent acknowledgement is ignored (no reception).

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

7.10. Handling received DSC messages pertinent to the sending non distress automatic procedure test

[ETSI EN 300 338-2 (2010-02), n.6.6.4]

DSC messages pertinent to the station but not the procedure shall be allocated to the appropriate automated procedure or initiate their own automated procedure on hold.

DSC messages that are pertinent to the procedure are acknowledgements to the initial DSC message.

[ETSI EN 300 338-2 (2010-02), n.6.6.4]

See tests:
“ Acknowledge Alarms of Sending non distress automated procedure

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

7.11. Handling received DSC messages pertinent to the station, but not pertinent to the automatic procedure test

[ETSI EN 300 338-2 (2010-02), n.6.6.4]

DSC messages pertinent to the station but not the procedure shall be allocated to the appropriate automated procedure or initiate their own automated procedure on hold.

DSC messages that are pertinent to the procedure are acknowledgements to the initial DSC message.

[ETSI EN 300 338-2 (2010-02), n.6.6.4]

Scenario	**Legend**
TestV12H_0051-2	*TestH_0N0E*

03:00 Distress call MMSI ship in distress is 273000002
06:00 Distress relay to All ships MMSI ship in distress is 273000003
09:00 Distress ACK for MMSI ship in distress is 273000004
12:00 Urgency Geographic area RT call
15:00 Safety Geographic area RT call
18:00 Safety Individual RT call to EUT

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

a) Reset tht EUT into Standby. From EUT send urgency Geographic area call RT 4125.0 kHz. Verify that the automated procedure is initiated.

Item (Initiate Urgency Geographic area)	**Result**		**Com-ment**
	YES	**NO**	
The fact one is engaged in receiving a non distress is displayed; [ETSI EN 300 338-2,n.6.6.3]	**X**		
The elapsed time since the procedure started is displayed, [ETSI EN 300 338-2, n.6.6.3]	**X**		
Active state of procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	**X**		
The operator is informed that the procedure is **"procedure done"**, [ETSI EN 300 338-2, n.6.6.3]	**X**		
The tuning to the subsequent communication frequencies channel 4125.0 kHz shall occur automatically. [ETSI EN 300 338-2, n.6.6.6]	**X**		
You can speak to the EUT from the TE on 4125.0 kHz, [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT on 4125.0 kHz, [ETSI EN 300 338-2, n.6.5.6]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Send from TE Distress call. Verify that:

TestV12H_0051-2.scn
03:00

Distress call			
Item	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the two tone alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	**X**		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	**X**		
The type (alert, relay, alert acknowledgement, relay acknowledgement), sender, and intended destination (individual, area, all ships) of the latest received DSC message is displayed; [ETSI EN 300 338-2, n.6.5.3,f]	**X**		
The history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	**X**		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	**X**		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to send a distress alert acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	**X**		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
You can speak to the EUT from the TE (4125.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (4125.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		

Select new on hold procedure and select option ‘terminate’.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

c) Send from TE Distress relay to All ships. Verify that:

TestV12H_0051-2.scn
06:00

Item **Distress relay to All ships**	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the two tone alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	**X**		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	**X**		
The type (alert, relay, alert acknowledgement, relay acknowledgement), sender, and intended destination (individual, area, all ships) of the latest received DSC message is displayed; [ETSI EN 300 338-2, n.6.5.3,f]	**X**		
The history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	**X**		
The operator is informed that the procedure is waiting for an acknowledgement, [ETSI EN 300 338-2, n.6.5.3,l(3)]	**X**		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to send a distress alert acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2)]	**X**		
The option to send a distress relay acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
You can speak to the EUT from the TE (4125.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (4125.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		

Select new on hold procedure and select option ‘terminate’.

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Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
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d) Send from TE distress ACK. Verify that:

TestV12H_0051-2.scn
09:00

Item Distress ACK	Result		Com-ment
	YES	NO	
The EUT sounds the distress ack alarm, [ETSI EN 300 338-2, n.6.5.5]	X		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	X		
the alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	X		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	X		
the latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
the type (alert, relay, alert acknowledgement, relay acknowledgement), sender, and intended destination (individual, area, all ships) of the latest received DSC message is displayed; [ETSI EN 300 338-2, n.6.5.3,f]	X		
the history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	X		
the operator is informed that the procedure is acknowledged, [ETSI EN 300 338-2, n.6.5.3,l(5)]	X		
the option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
the option to send a distress alert acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2)]	X		
the option to send a distress relay acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2]	X		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
the elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (4125.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (4125.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		

Select current active automated procedure. Verify that:

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e) Send from TE DSC urgency Geographic area RT. Verify that:

TestV12H_0051-2.scn
12:00

Item **Urgency Geographic area call**	**Result**		**Com-ment**
	YES	**NO**	
the EUT sounds the urgency alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
the reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
the alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	**X**		
the information content of the received DSC message is displayed and correct, [ETSI EN 300 338-2,n.6.7.3,f]	**X**		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
the elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
You can speak to the EUT from the TE (4125.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (4125.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		

Select new on hold procedure and select option ‘terminate’.

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f) Send from TE DSC safety Geographic area RT. Verify that:

TestV12H_0051-2.scn
15:00

Item **Safety Geographic area call**	**Result**		**Com-ment**
	YES	**NO**	
the EUT sounds the Riutine alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
the reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	**X**		
the information content of the received DSC message is displayed and correct, [ETSI EN 300 338-2,n.6.7.3,f]	**X**		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
the elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
You can speak to the EUT from the TE (4125.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (4125.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		

Select new on hold procedure and select option ‘terminate’.

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g) Send from TE DSC Safety Individual call RT to EUT. Verify that:
(EUT will NOT receive call if NO implement DSC routine watch)

TestV12H_0051-2.scn
18:00

Item **Routine Individual call**	**Result**		**Com-ment**
	YES	**NO**	
the EUT sounds the Routine alarm, [ETSI EN 300 338-2, n.6.5.5]	n.a	n.a	NOTE 1
the reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]			
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]			
the information content of the received DSC message is displayed and correct, [ETSI EN 300 338-2,n.6.7.3,f]			
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]			
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]			
the elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]			
the option to send a Individual acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]			
You can speak to the EUT from the TE (4125.0 kHz), [ETSI EN 300 338-2, n.6.5.6]			
You can speak to the TE from the EUT (4125.0 kHz), [ETSI EN 300 338-2, n.6.5.6]			

NOTE 1
The DSC routine watch is not implement.

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

7.12. Options of termination of the automatic procedure test

[ETSI EN 300 338-2 (2010-02), n.6.3]

The following setup options shall be available with the following factory defaults:
i) the option to set the no activity timeout of non distress DSC automated procedures to some value that includes no timeout: set to 15 min;

[ETSI EN 300 338-2, n.6.3]

Check setup options. Verify that:

Automated timeout				
Item	**Value**	**Result**		**Com-ment**
		YES	**NO**	
There are facilites of timeout	YES	**X**		
Possibility of change value of timeout	YES	**X**		
Limits of timeout	1 min – 30 min	**X**		
Default value of timeout	15 min	**X**		15 min
Facilites to set Active / No active timeout	YES	**X**		Yes
Default setting	ACTIVE	**X**		Active

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

7.13. Manually termination of automated procedure test

[ETSI EN 300 338-2 (2010-02), n.6.6.8]

The procedure can be terminated manually or by the automated timeout. At least ten seconds prior to automated termination, a visual and discrete aural warning shall be displayed with the option to stop the automatic termination.

If the procedure is terminated manually by the user then integrated equipment may revert to the channel or frequency that was previously selected before the DSC procedure.

[ETSI EN 300 338-2 (2010-02), n.6.6.8]

a) Reset EUT into Standby. Set no timeout or maximum value.
From **EUT serially send** the calls listed in the table. After sending of a each call to send from TE in addition one or more DSC a sequence pertinent to station, but not for the currently active automated procedure. Verify that calls are received. Manually terminate the procedure. Verify that:

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Termination prior to acknowledgement				
Starting sending automated procedure call Send from EUT	**There is option Termination**	**Possibly manually termination procedure**	**There is warning that terminating the procedure**	**Comments**
Individual UrgencyRT call	YES	YES	YES	
Individual Safety RT call	YES	YES	YES	
Individual position request call Safety	YES	YES	YES	
Individual Safety Test call	YES	YES	YES	
Individual Routine RT call	YES	YES	YES	
Individual Routine FEC call	YES	YES	YES	

Manually termination of automated procedure (before acknowledgement)	**Result**		**Com-ment**
	YES	**NO**	
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.6.2,a(3),iv]	**X**		
Upon selection of the option to terminate the procedure a warning is provided that one is terminating the procedure (terminate the automated procedure before the objective has been reached), [ETSI EN 300 338-2, n.6.6.9] [Rec. ITU-R M.493-13, Ann.4, n.3.4.8]	**X**		
The operator should have the option to go back to the stage of the automated procedure where the action was taken that caused the warning. [Rec. ITU-R M.493-13, Ann.4, n.3.1.6]	**X**		
If the procedure is terminated manually by the user then integrated equipment may revert to the channel or frequency that was previously selected before the DSC procedure. [ETSI EN 300 338-2, n.6.6.8]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Reset EUT into Standby. Set no timeout or maximum value.
From **EUT serially send** the calls listed in the table. After sending of a each call to send from TE in addition one or more DSC a sequence pertinent to station, but not for the currently active automated procedure. Verify that calls are received. There, where it is **required send acknowledgement**. Verify that:

Termination after to acknowledgement				
Starting sending automated procedure call Send from EUT	**There is option Termination**	**Possibly manually termination procedure**	**There is warning that terminating the procedure**	**Comments**
Individual Urgency RT call	YES	YES	NO	
Individual Safety RT call	YES	YES	NO	
Individual position request call Safety	YES	YES	NO	
Individual Safety Test call	YES	YES	NO	
Individual Routine RT call	YES	YES	NO	
Individual Routine FEC call	YES	YES	NO	

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Date:	***September 2010 – January 2011***	

Item **Manually termination of automated procedure (after acknowledgement)**	**Result**		**Com-ment**
	YES	**NO**	
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.6.2,a(3),iv]	**X**		
Upon selection of the option to terminate the procedure a warning is NOT provided that one is terminating the procedure (terminate the automated procedure before the objective has been reached), [ETSI EN 300 338-2, n.6.6.9] [Rec. ITU-R M.493-13, Ann.4, n.3.4.8]	**X**		
If the procedure is terminated manually by the user then integrated equipment may revert to the channel or frequency that was previously selected before the DSC procedure. [ETSI EN 300 338-2, n.6.6.8]	**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

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7.14. Termination of automated procedure by automated timout test

[ETSI EN 300 338-2 (2010-02), n.6.3]
[ETSI EN 300 338-2 (2010-02), n.6.6.8]

a) Reset EUT into Standby. Set automated termination timout.
From EUT serially send the calls listed in the table. After sending of a each call to send from TE in addition one or DSC a sequence pertinent to station, but not for the currently active automated procedure. Verify that calls are received. Verify that:

Item	Value of Timeout of automated Termination (minutes)	Warning prior automated termination				There is warning that terminating the procedure	Comment
		At least 10 seconds	visual	Discrete aural	Option to stop		
Geographic area RT call Urgency	1 min	Yes	Yes	Yes	Yes	Yes	
Geographic area RT call Safety	1 min	Yes	Yes	Yes	Yes	Yes	
Individual Urgency RT call	1 min	Yes	Yes	Yes	Yes	Yes	
Individual Safety RT call	1 min	Yes	Yes	Yes	Yes	Yes	
Individual position request call Safety	1 min	Yes	Yes	Yes	Yes	Yes	
Individual Safety Test call	1 min	Yes	Yes	Yes	Yes	Yes	
Group call Routine RT	1 min	Yes	Yes	Yes	Yes	Yes	
Individual Routine RT call	1 min	Yes	Yes	Yes	Yes	Yes	
Individual Routine FEC call	1 min	Yes	Yes	Yes	Yes	Yes	

Termination of automated procedure by automated timout	Result		Com-ment
	YES	NO	
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.6.2]	X		
At least ten seconds prior to automated termination, a visual and discrete aural warning shall be displayed with the option to stop the automatic termination. [ETSI EN 300 338-2,n.6.6.8]	X		
The operator should have the option to go back to the stage of the automated procedure where the action was taken that caused the warning. [Rec. ITU-R M.493-13, Ann.4, n.3.1.6]	X		

The equipment meets the requirements (yes / no /n.a)	yes

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

7.15. Facilities for composition of non distress DSC calls: Default values test

[ETSI EN 300 338-2,n.6.2.1]
[ETSI EN 300 338-2,Annex A.1; A.3]
[Rec. ITU-R M.493-13, Ann.3, n.5.3]

a) Reset EUT into Standby. Try to compose the non distress message. Verify features:

Non distress message composition features	Result		Com-ment
	YES	NO	
The following functions and or information shall be visible to the operator at top level while in standby: f) a clearly labelled means to compose/send a non distress DSC message; [ETSI EN 300 338-2, n.6.3, f]	X		
A destination MMSI that does not have at least 9 digits entered is invalid. [ETSI EN 300 338-2, n.6.2.1]	X		
No DSC message shall be able to be sent that has an invalid parameter. [ETSI EN 300 338-2, n.6.2.1]	X		
the DSC message composition interface shall be such that the operator needs no user manual to initiate the desired DSC message; [ETSI EN 300 338-2, n.6.2.1]	X		
it shall require a maximum of two keystrokes, button pushes or menu actions plus the entry or selection of a **destination MMSI** (where appropriate) for the operator to send the default (routine individual) DSC message from standby; [ETSI EN 300 338-2(2010-02), n.6.2.1,b]	X		
it shall require a maximum of two keystrokes, button pushes or menu actions plus the entry or selection of a **working channel** (where appropriate) for the operator to send the default (routine individual) DSC message from standby; [ETSI EN 300 338-2(2010-02), n.6.2.1,b]		X	(34)
parameter descriptions and terms shall be provided in plain language; [ETSI EN 300 338-2(2010-02), n.6.2.1,c]	X		
All parameters of the DSC message that do not require an operator choice shall be entered automatically; [ETSI EN 300 338-2(2010-02), n.6.2.1,d]	X		
If the called station is a ship station or a group of ship stations the equipment should request input of a channel number (frequency in case of MF). The equipment should assist the operator by suggesting a suitable inter-ship channel; [Rec. ITU-R M.493-13, Ann.3, n.5.4.1]		X	(35)
The facilities for choosing and composing DSC messages should be so arranged that it is possible for the operator quickly and precisely to **review and correct**, if needed, the content before transmitting the DSC message. [Rec. ITU-R M.493-13, Ann.3, n.5.1.2]	X		
The equipment should automatically propose the next step for composing the DSC message, for example, when pressing the enter/accept/next/touch/press button or equivalent, if not visible from the context or on the display. [Rec. ITU-R M.493-13, Ann.3, n.5.1.3]	X		
the equipment shall only allow the operator to compose and send DSC messages that are compliant with the latest version of ITU-R Recommendation M.493-13; [ETSI EN 300 338-2(2010-02), n.6.2.1]	X		

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b) Reset EUT into Standby. Try to composition non distress message. Verify default values.

Non distress message composition the factory default values	**Result**		**Com-ment**
	YES	**NO**	
if the operator has the option to select a format (destination address) the default format should be "individual (120)", [Rec. ITU-R M.493-13, Ann.3, n.5.3]	**X**		
if the format (destination address) is either individual (120), a group of ships (114), or a semi-automatic phone call (123), the default MMSI should be some internal indicator that the MMSI is invalid and needs to be entered before transmission can occur, [Rec. ITU-R M.493-13, Ann.3, n.5.3]	**X**		
if the operator has the option to select a category (priority) the default category should be "routine" unless the routine priority is not allowed (such as in an area or all-ships DSC message) in which case it should be "safety", [Rec. ITU-R M.493-13, Ann.3, n.5.3]	**X**		
if the operator has the option to select the type of subsequent communication the default value should be radiotelephony, [Rec. ITU-R M.493-13, Ann.3, n.5.3]	**X**		
if the operator has the option to select a frequency or channel for the subsequent communication the default value should be a non-distress frequency [Rec. ITU-R M.493-13, Ann.3, n.5.3]	**X**		
The distress channels shall not be used for routine category DSC messages. [ETSI EN 300 338-2, Ann.C, n.C.2,a]	**X**		
all other parameters, for example the position, self ID, time of position, and end of sequence character, should be automatically entered by the equipment, [Rec. ITU-R M.493-13, Ann.3, n.5.3]	**X**		
the category should not be "remembered" when the call composition option is selected at a later time but should be reset to the factory default; This requirement does not mean the equipment is unable to provide the operator with the option to send pre-composed, customized DSC messages with a single action, [Rec. ITU-R M.493-13, Ann.3, n.5.3]	**X**		
if there is only a single "call" button, menu selection, or equivalent for initiating a non-distress DSC message, the default DSC message should have format "individual" and category "routine". [Rec. ITU-R M.493-13, Ann.3, n.5.3]	**X**		
DSC messages addressed to coast station destinations shall let the coast station decide (position in the frequency parameters of the DSC message). [ETSI EN 300 338-2, Ann.C, n.C.2,e]	**X**		
DSC messages addressed to ship station destinations shall use the simplex set of channels. [ETSI EN 300 338-2, Ann.C, n.C.2,f]	**X**		
On HF the band of the communication channel shall be in the band of the DSC message. [ETSI EN 300 338-2(2010-02), C.2,h]		**X**	(36) (37)
On HF the telephony channel set shall be chosen for voice communications. [ETSI EN 300 338-2(2010-02), C.2,i]	**X**		

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c) Reset EUT into Standby. Select facilites for composition of Geographic area RT call. Try to input channel information. Send call. Verify that:

Geographic area call composition			
Subject	**Result**		**Com-ment**
	YES	**NO**	
All parameters of the DSC message that do not require an operator choice shall be entered automatically; [ETSI EN 300 338-2(2010-02), n.6.2.1]	**X**		
the equipment shall provide the operator with the choice of specifying the geographic area parameters as either a circle of radius "r" about a centre point or the traditional latitude-longitude Mercator box and northwest corner point or about a centre point; [ETSI EN 300 338-2(2010-02), n.6.2.1]	**X**		
the equipment shall convert and round the radius-centre point entry according to the algorithm given in annex ETSI EN 300 338-2, Ann.B; [ETSI EN 300 338-2(2010-02), Annex B]	**X**		
The band of the communication channel shall be in the band of the DSC message. [ETSI EN 300 338-2(2010-02), C.2,b]	**X**		
DSC messages directed to a group or an area shall use the broadcast mode (126 seconds for the TX frequency in the frequency parameters of the DSC message). [ETSI EN 300 338-2(2010-02), C.2,g]	**X**		
On HF the band of the communication channel shall be in the band of the DSC message. [ETSI EN 300 338-2(2010-02), C.2,h]	**X**		
On HF the telephony channel set shall be chosen for voice communications. [ETSI EN 300 338-2(2010-02), C.2,i]	**X**		
Unused frequency elements shall be filled with "no information" (126). [ETSI EN 300 338-1(2010-02), n.12.1]	**X**		
The operator shall have the option to change the working channel. The automated channel selection shall be able to be overridden. [ETSI EN 300 338-2(2010-02), n.6.2.1]	**X**		
It shall require a maximum of two keystrokes, button pushes or menu actions plus the entry or selection of a **destination MMSI** (where appropriate) for the operator to send the default (routine individual) DSC message from standby; [ETSI EN 300 338-3(2010-02), n.6.2.1]	**X**		
It shall require a maximum of two keystrokes, button pushes or menu actions plus the entry or selection of a **working channel** (where appropriate) for the operator to send the default (routine individual) DSC message from standby; [ETSI EN 300 338-3(2010-02), n.6.2.1]	**X**		

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(34) (E1065)(E594)

It is required of **four** keystrokes, button pushes or menu actions plus the entry or selection of a working channel for the operator to send the default (routine individual) DSC message from standby.

While standard requires a maximum of **two** keystrokes, button pushes or menu actions plus the entry or selection of a working channel.

[ETSI EN 300 338-2(2010-02), n.6.2.1,b]

(35) (E1331)

No means of verifying the correctness of information entered, the working frequency in the composition of the call.

The operator composed and sent the Individual DSC call with working frequencies: 4444.4 kHz / 4351.0 kHz radiotelephony. TE transmitted “able to comply” acknowledgement. EUT displayed warning: “Remote station replied with invalid channel. Make new call”.

[ETSI EN 300 338-2(2010-02), n.6.2.1]

(36) (E1068)

When composition a DSC call Individual Routine sub-communication ARQ on the band 2 MHz, the working frequency of defaults from a range of 4 MHz: 4202.5 kHz / 4202.5 kHz.

While on HF the band of the communication channel shall be in the band of the DSC message.

[ETSI EN 300 338-2(2010-02), C.2,h]

(37) (E1075)

When composition a DSC Group Routine sub-communication FEC on the band 2 MHz, the working frequency of defaults from a range of 4 MHz: 4202.5 kHz / 4202.5 kHz.

While on HF the band of the communication channel shall be in the band of the DSC message.

[ETSI EN 300 338-2(2010-02), C.2,h]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

7.16. Medical transport and neutral ships and aircraft DSC calls test

[ETSI EN 300 338-2, Annex A, n.A.3]
[Rec. ITU-R M.493-13, Annex 1, n.12.9]

The capability of using second telecommands “Ships and aircraft of States not parties to an armed conflict” and “Medical Transports” should not be available by default but only after changing relevant parameters in the setup menu.

[Rec. ITU-R M.493-13, Annex 1, n.12.9]

The Medical Transport and Neutral Craft DSC messages shall only be available as a setup option. In the factory defaults, these DSC messages shall not be available.

[ETSI EN 300 338-2, Annex A, n.A.3]

Scenario	**Legend**
Is not required	Is not required

Medical transport and neutral ships and aircraft					
Subject	**Value**		**Result**		**Com-ment**
	YES	**NO**	**YES**	**NO**	
The Medical Transport Geographic area DSC messages shall only be available as a setup option [ETSI EN 300 338-2, Annex A, n.A.3]	**X**		**X**		
The Neutral Craft Geographic area DSC messages shall only be available as a setup option [ETSI EN 300 338-2, Annex A, n.A.3]	**X**		**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

7.17. Verification of correct generation, encoding and transmission of DSC call sequences to all ships

[ETSI EN 300 338-2 (2010-02), n.6.2.1]
[ETSI EN 300 338-2 (2010-02), Annex A.3]
[Rec.ITU-R M.493-13, Annex 1, Table 4.5]

Method of measurement and required results

The EUT and TE are connected. Try to send from the EUT the following DSC calls:

a) Urgency call, to all ships;
b) Safety call, to all ships.
c) Distress call, to all ships;
d) Routine call, to all ships.

The TE receives, decodes DSC calls. Verify that:.

Scenario	Legend
Is not required	Is not required

Results

Category of All ships call	Possibility of sending of All ships call		Result		Comment
	YES	NO	YES	NO	
Distress		X	X		Should not be possibility
Urgency		X	X		Should not be possibility
Safety		X	X		Should not be possibility
Routine		X	X		Should not be possibility

The equipment meets the requirements (yes / no /n.a)	yes

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

7.18. Verification of correct generation, encoding and transmission of Geographic area calls

[Rec.ITU-R M.493-13, Annex 1, Table 4.6]
[Rec ITU-R M.493-13, Annex 3, n.1]
[ETSI EN 300 338-2, Annex A, A.3]

Method of measurement and required results

The EUT and TE are connected. Try to send from the EUT the following DSC calls to Geographic area.. Verify that:.

Scenario	Legend
Is not required	Is not required

Results

Category of area call	Possibility of sending of area call		Result		Comment
	YES	NO	YES	NO	
Distress	X		X		Should not be possibility
Urgency		X	X		
Safety		X	X		
Routine	X		X		Should not be possibility

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

The EUT software should allow the operator to only compose the types of the DSC messages wich specified in tables 4.1-4.5Annex 1 Rec. ITU-R M.493-13. Verify that:

N	Item	Sending		Result		Comment
		YES	NO	YES	NO	
1	Geographic area Urgency call (J3E TP) [Rec ITU-R M.493-13, Ann.1, Table 4.6]	X		X		
2	Geographic area Urgency call (F1B FEC) [Rec ITU-R M.493-13, Ann.1, Table 4.6]	X		X		
3	Geographic area Safety call (J3E TP) [Rec ITU-R M.493-13, Ann.1, Table 4.6]	X		X		
4	Geographic area Safety call (F1B FEC) [Rec ITU-R M.493-13, Ann.1, Table 4.6]	X		X		
5	Geographic area Urgency call (Medical transports) (J3E TP) [Rec ITU-R M.493-13, Ann.1, Table 4.6]	X		X		
6	Geographic area Urgency call (Ships and aircraft (Res.18)) (J3E TP) [Rec ITU-R M.493-13, Ann.1, Table 4.6]	X		X		
7	Geographic area Urgency call (Medical transports) (F1B FEC) [Rec ITU-R M.493-13, Ann.1, Table 4.6] [ETSI EN 300 338-2, Ann.A, A.3, Note 5]	X		X		
8	Geographic area Urgency call (Ships and aircraft (Res.18)) (F1B FEC) [Rec ITU-R M.493-13, Ann.1, Table 4.6] [ETSI EN 300 338-2, An.A, A.3, Note 5]	X		X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

7.19. Verification of correct generation, encoding and transmission of Urgency and safety calls to individual station

[Rec. ITU-R M.493-13, Annex 1, Table 4.7]
[Rec. ITU-R M.493-13, Annex 3, n.1]
[ETSI EN 300 338-2, Annex A, A.3]

Scenario	Legend
Is not required	Is not required

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

The EUT software should allow the operator to only compose the types of the DSC messages wich specified in tables 4.1-4.5Annex 1 Rec. ITU-R M.493-13. Verify that: [Rec ITU-R M.493-13, Annex 3, n.1]

N	Subject	Sending		Results		Comment
		YES	NO	YES	NO	
1	Urgency call to individual station Msg2: Frequency (J3E TP)	X		X		
2	Safety call to individual station Msg2: Frequency (J3E TP)	X		X		
3	Urgency call to individual station Msg2: Position information (J3E TP)	X		X		
4	Safety call to individual station Msg2: Position information (J3E TP)	X		X		
5	Urgency call to individual station Msg2: Frequency (F1B FEC)	X		X		
6	Safety call to individual station Msg2: Frequency (F1B FEC)	X		X		
7	Urgency call to individual station Msg2: Position information (F1B FEC)	X		X		
8	Safety call to individual station Msg2: Position information (F1B FEC)	X		X		
9	Urgency call to individual station Msg2: Frequency (F1B ARQ)	X		X		
10	Safety call to individual station Msg2: Frequency (F1B ARQ)	X		X		
11	Urgency call to individual station Msg2: Position information (F1B ARQ)	X		X		
12	Safety call to individual station Msg2: Position information (F1B ARQ)	X		X		
13	Safety call to individual station Position request	X		X		
14	Safety call to individual station Test call	X		X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

7.20. Verification of decoding of acknowledgment sequences Urgency and Safety acknowledgements calls to individual station

[Rec. ITU-R M.493-13, Annex 1, Table 4.7]
[Rec. ITU-R M.493-13, Annex 3, n.1]
[ETSI EN 300 338-2, Annex A, A.3]

Method of measurement and required results

The EUT and TE are connected. The EUT encodes and sequentially transmits to the TE the following DSC calls:

a) Urgency call to individual station;
b) Safety call to individual station;
e) Individual station ship's position updating call;
f) Test call.
g) Selective call to individual station with message 2:
1) frequency information;
2) ship's position information.
RQ is the end of communication character.

The TE transmits call acknowledgements with the end of sequence character BQ. EUT receives the acknowlrdgements. Verify that:

Scenario	Legend
Is not required	Is not required

MMSI of EUT is **273000000**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

N	Subject	Reception		Results		Com-ment
		YES	NO	YES	NO	
1	Urgency call to individual station acknowledgement Msg2: Frequency (J3E TP)	X		X		
2	Safety call to individual station acknowledgement Msg2: Frequency (J3E TP)	X		X		
3	Urgency call to individual station acknowledgement Msg2: Position information (J3E TP)		X	X		
4	Safety call to individual station acknowledgement Msg2: Position information (J3E TP)		X	X		
5	Urgency call to individual station acknowledgement Msg2: Frequency (F1B FEC)	X		X		
6	Safety call to individual station acknowledgement Msg2: Frequency (F1B FEC)	X		X		
7	Urgency call to individual station acknowledgement Msg2: Position information (F1B FEC)		X	X		
8	Safety call to individual station acknowledgement Msg2: Position information (F1B FEC)		X	X		
9	Urgency call to individual station acknowledgement Msg2: Frequency (F1B ARQ)	X		X		
10	Safety call to individual station acknowledgement Msg2: Frequency (F1B ARQ)	X		X		
11	Urgency call to individual station acknowledgement Msg2: Position information (F1B ARQ)		X	X		
12	Safety call to individual station acknowledgement Msg2: Position information (F1B ARQ)		X	X		
13	Safety call to individual station acknowledgement Position request		X	X		
14	Safety call to individual station acknowledgement Test call	X		X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

N	Subject	Reception		Results		Comment
		YES	NO	YES	NO	
1	Safety call to individual station Unable to comply (No reason given)	X		X		
2	Safety call to individual station Unable to comply (Congestion at maritime switching centre)	X		X		
3	Safety call to individual station Unable to comply (Busy)	X		X		
4	Safety call to individual station Unable to comply (Queue indication)	X		X		
5	Safety call to individual station Unable to comply (Station barred)	X		X		
6	Safety call to individual station Unable to comply (No operator available)	X		X		
7	Safety call to individual station Unable to comply (Operator temporarily unavailable)	X		X		
8	Safety call to individual station Unable to comply (Equipment disabled)	X		X		
9	Safety call to individual station Unable to comply (Unable to use proposed channel)	X		X		
10	Safety call to individual station Unable to comply (Unable to use proposed mode)	X		X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

N	Subject	Reception		Results		Comment
		YES	NO	YES	NO	
1	Urgency call to individual station Unable to comply (No reason given)	X		X		
2	Urgency call to individual station Unable to comply (Congestion at maritime switching centre)	X		X		
3	Urgency call to individual station Unable to comply (Busy)	X		X		
4	Urgency call to individual station Unable to comply (Queue indication)	X		X		
5	Urgency call to individual station Unable to comply (Station barred)	X		X		
6	Urgency call to individual station Unable to comply (No operator available)	X		X		
7	Urgency call to individual station Unable to comply (Operator temporarily unavailable)	X		X		
8	Urgency call to individual station Unable to comply (Equipment disabled)	X		X		
9	Urgency call to individual station Unable to comply (Unable to use proposed channel)	X		X		
10	Urgency call to individual station Unable to comply (Unable to use proposed mode)	X		X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

7.21. Verification of correct generation, encoding and transmission Routine call to a group of stations

[Rec. ITU-R M.493-13, Annex 1, Table 4.8]
[Rec. ITU-R M.493-13, Annex 3, n.1]
[ETSI EN 300 338-2, Annex A, A.3]

Method of measurement and required results

The EUT and TE are connected. The EUT is set to receive DSC calls. The TE generates, encodes and transmits to the EUT a Routine call to a group of stations. Verify that:

Group MMSI of EUT is **027300000**

Scenario	Legend
Is not required	Is not required

Group MMSI of EUT is **027300000**

Results:

N	Subject	Sending		Results		Comment
		YES	NO	YES	NO	
1	Routine call to group of station Msg2: Frequency (J3E TP)	X		X		
2	Routine call to group of station Msg2: Frequency (F1B FEC)	X		X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

7.22. Verification of correct generation, encoding and transmission Routine call to individual station

[Rec. ITU-R M.493-12, Annex 1, Table 4.9]
[Rec. ITU-R M.493-13, Annex 3, n.1]
[ETSI EN 300 338-2, Annex A, A.3]

Method of measurement and required results

The EUT and TE are connected. The EUT is set to generate, encode and transmit the DSC Urgency and safety calls, to individual station. Verify that:

Scenario	Legend
Is not required	Is not required

Results

N	Subject	Sending		Results		Com-ment
		YES	NO	YES	NO	
1	Routine call to individual station Msg2: Frequency (J3E TP)	X		X		
2	Routine call to individual station Msg2: Position information (J3E TP)	X		X		
3	Routine call to individual station Msg2: Frequency (F1B FEC)	X		X		
4	Routine call to individual station Msg2: Position information (F1B FEC)	X		X		
5	Routine call to individual station Msg2: Frequency (F1B ARQ)	X		X		
6	Routine call to individual station Msg2: Position information (F1B ARQ)	X		X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

N	Subject	Sending		Results		Comment
		YES	NO	YES	NO	
1	Routine call to individual station Msg2: Frequency 1st telecommand: Data 2nd telecommand: No info (126)		X	X		No allowable by ETSI EN 300 338-2, Ann.A, A.3
2	Routine call to individual station Msg2: Frequency 1st telecommand: Data 2nd telecommand: (100-125,127)		X	X		Should not be possible
3	Routine call to individual station Msg2: Position information 1st telecommand: Data 2nd telecommand: No info (126)		X	X		No allowable by ETSI EN 300 338-2, Ann.A, A.3
4	Routine call to individual station Msg2: Position information 1st telecommand: Data 2nd telecommand: (100-125,127)		X	X		Should not be possible

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

7.23. Verification of decoding of Routine acknowledgement calls to individual station

[Rec.ITU-R M.493-13, Annex 1, Table 4.9]
[Rec. ITU-R M.493-13, Annex 3, n.1]
[ETSI EN 300 338-2, Annex A, A.3]

Method of measurement and required results

The EUT and TE are connected. The EUT encodes and sequentially transmits to the TE the following DSC Routine call to individual station.

The TE receives and decodes the calls. The TE transmits acknowledgement calls with the end of sequence character BQ. The EUT receives, decodes and prints DSC calls. When decoder measurements use a printer or computer, agreement of printer output and display indication should be checked. Verify that:

Scenario	Legend
Is not required	Is not required

MMSI of EUT is **273000000**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Results

N	Subject	Reception		Results		Com-ment
		YES	NO	YES	NO	
1	Routine call to individual station acknowledgement Msg2: Frequency (J3E TP)	X		X		
2	Routine call to individual station acknowledgement Msg2: Position information (J3E TP)		X	X		
3	Routine call to individual station acknowledgement Msg2: Frequency (F1B FEC)	X		X		
4	Routine call to individual station acknowledgement Msg2: Position information (F1B FEC)		X	X		
5	Routine call to individual station acknowledgement Msg2: Frequency (F1B ARQ)	X		X		
6	Routine call to individual station acknowledgement Msg2: Position information (F1B ARQ)		X	X		

N	Subject	Reception		Results		Comment
		YES	NO	OK	NO	
1	Routine call to individual station acknowledgement Msg2: Frequency 1st telecommand: Data 2nd telecommand: No info (126)		X	X		No allowable by ETSI EN 300 338-2, Ann.A, A.3
2	Routine call to individual station acknowledgement Msg2: Frequency 1st telecommand: Data 2nd telecommand: (100-125,127)		X	X		Should not be possible
3	Routine call to individual station acknowledgement Msg2: Position information 1st telecommand: Data 2nd telecommand: No info (126)		X	X		No allowable by ETSI EN 300 338-2, Ann.A, A.3
4	Routine call to individual station acknowledgement Msg2: Position information 1st telecommand: Data 2nd telecommand: (100-125,127)		X	X		Should not be possible

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

N	Subject	Reception		Results		Comment
		YES	NO	YES	NO	
1	Routine call to individual station Unable to comply acknowledgement (No reason given)	X		X		
2	Routine call to individual station Unable to comply acknowledgement (Congestion at maritime switching centre)	X		X		
3	Routine call to individual station Unable to comply acknowledgement (Busy)	X		X		
4	Routine call to individual station Unable to comply acknowledgement (Queue indication)	X		X		
5	Routine call to individual station Unable to comply acknowledgement (Station barred)	X		X		
6	Routine call to individual station Unable to comply acknowledgement (No operator available)	X		X		
7	Routine call to individual station Unable to comply acknowledgement (Operator temporarily unavailable)	X		X		
8	Routine call to individual station Unable to comply acknowledgement (Equipment disabled)	X		X		
9	Routine call to individual station Unable to comply acknowledgement (Unable to use proposed channel)	X		X		
10	Routine call to individual station Unable to comply acknowledgement (Unable to use proposed mode)	X		X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8. Receiving non distress automated procedure

[ETSI EN 300 338-2 (2010-02), n.6.7]

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.1. The received non distress automated procedure with 'able to comply' tests (Manual acknowledgement)

[ETSI EN 300 338-2 (2010-02), n.6.7.7]
[ETSI EN 300 338-2 (2010-02), n.6.7.2]
[ETSI EN 300 338-2 (2010-02), n.6.7.3]
[ETSI EN 300 338-2 (2010-02), n.6.7.6]

Acknowledgment options shall only be provided if the initial DSC message requests an acknowledgement and the acknowledgment option is possible.
In the case of a received individual call, the radio shall be capable of identifying if the requested working channel identified in the call is available in the equipment:

If this channel is available the radio shall display the call details and compose an "able to comply" acknowledgement which shall only be transmitted manually. Switching to the channel identified shall only be performed after a manual "able to comply" acknowledgement has been transmitted.
The "able to comply" option shall only require a single action by the operator to respond (e.g. lifting the handset). The operator shall not be required to compose any elements of this acknowledgement.

[ETSI EN 300 338-2, n.6.7.7)]

Scenario	Legend
TestV12H_0001	Is not required
TestV12H_0001-ARQ	Is not required
TestV12H_0001-FEC	Is not required

Definition

This test checks the sequence of receiving an individually addressed DSC message, manually acknowledging with 'able to comply', and establishing the communication link.

Method of measurement and required results

a) Set the EUT and TE in standby and be sure that the automatic acknowledgement feature of the TE is turned off in order to have time to inspect the EUT. From the TE send a DSC message of priority **safety** requesting radiotelephone addressed to the EUT. On HF send the DSC message on 16 804.5 kHz using RT distress and safety channel 16 420.0 kHz. Verify that:

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Item "able to comply" RT	Result		Com-ment
	YES	NO	
EUT sounds the routine alarm, [ETSI EN 300 338-2,n.6.7.5]	X		
the reason for and means to silence the alarm is displayed on the EUT, [ETSI EN 300 338-2,n.6.7.5]	X		
the fact one is engaged in receiving a non distress procedure is displayed; [ETSI EN 300 338-2,n.6.7.3,a]	X		
the time since receiving the DSC call is displayed, [ETSI EN 300 338-2, n.6.7.3,b]	X		
Active state of procedure is displayed, [ETSI EN 300 338-2, n.6.7.3,d]	X		
The information content of the received DSC message is displayed or available on the EUT, 1) priority (category); 2) the sender; 3) to whom the DSC message was sent (format and MMSI or area); 4) means of subsequent communication or the requested or sent information; 5) frequencies and mode of subsequent communication (if any); 6) on HF the frequency of the DSC message; 7) whether or not the DSC message requires an acknowledgement; [ETSI EN 300 338-2, n.6.7.3,f]	X		
the information content displayed on the TE corresponds to that displayed on the EUT	X		
the option to send able to comply" acknowledgement is available, [ETSI EN 300 338-2, n.6.7.2,g(1),i]	X		
The acknowledgement shall only be transmitted manually [ETSI EN 300 338-2, n.6.7.7]	X		
The operator shall not be required to compose any elements of this acknowledgement [ETSI EN 300 338-2, n.6.7.7]	X		
The "able to comply" option shall only require a single action by the operator to respond (e.g. lifting the handset). [ETSI EN 300 338-2, n.6.7.7]	X		
EUT should **not** changed channel (to 16 420.0 kHz) [ETSI EN 300 338-2, n.6.7.6]	X		
the 'able to comply with mode/frequency change' acknowledgment option is available, [ETSI EN 300 338-2, n.6.7.2,g(1),ii]	X		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.7.2,g(1),iv]	X		
the 'unable to comply' acknowledgment option is available, [ETSI EN 300 338-2, n.6.7.2,g(1),iii]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.7.2,g(1),v]	X		
the EUT states that it is waiting for the operator to respond/select an acknowledgment, [ETSI EN 300 338-2, n.6.7.3,i]	X		
the time since receiving initial DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.7.3]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Acknowledge the DSC message from the EUT with “able to comply". Verify that:

Item “able to comply” RT	Result		Com-ment
	YES	NO	
the EUT indicates that it is transmitting, [ETSI EN 300 338-2, n.6.7.3,i]	X		
the information content of the sent acknowledgment is displayed or available on the EUT: 1) priority; 2) the destination; 3) the communication mode and frequencies, or unable to comply and reason or info; 4) on HF the frequency of the acknowledgment; [ETSI EN 300 338-2, n.6.7.3,g]	X		
the EUT indicates that communications are ready, [ETSI EN 300 338-2, n.6.7.3,i(3)]	X		
the fact one is engaged in receiving a non distress is displayed; [ETSI EN 300 338-2,n.6.7.3,a]	X		
the elapsed time since acknowledgement is displayed, [ETSI EN 300 338-2, n.6.7.3,c]	X		
Active state of procedure is displayed, [ETSI EN 300 338-2, n.6.7.3,d]	X		
the option to resend only the *identical* acknowledgement is available, [ETSI EN 300 338-2, n.6.7.2,g(2),i]	X		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.7.2,g(2),ii]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.7.2,g(2),iii]	X		
the information content displayed on the TE corresponds to that displayed on the EUT, [ETSI EN 300 338-2, n.6.7.3,g]	X		
the time since acknowledgment, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.7.3]	X		
If the DSC message requires subsequent communications, the general receiver and transmitter shall be tuned to the frequencies of the subsequent communications given in the acknowledgement [ETSI EN 300 338-2, n.6.7.6]	X		
You can speak to the EUT from the TE (16 420.0 kHz),	X		
You can speak to the TE from the EUT (16 420.0 kHz).	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select option resend. Send the acknowledgement. Verify that:

Item	Result		Com-ment
	YES	NO	
the EUT indicates that it is transmitting,	X		
If an acknowledgement is resent by the operator it shall be identical to the first acknowledgment. [ETSI EN 300 338-2, n.6.7.7]	X		
It shall not be possible to further edit the content. [ETSI EN 300 338-2, n.6.7.7]	X		
the elapsed time, stage, and operator options are visible at top level. (stage is "acknowledged") [ETSI EN 300 338-2, n.6.7.3]	X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.2. Received non distress automated procedure with 'comply with channel change' and option 'able to comply' is unavailable tests (Manual acknowledgement)

[ETSI EN 300 338-2 (2010-02), n.6.7.7]
[ETSI EN 300 338-2 (2010-02), n.6.7.2]
[ETSI EN 300 338-2 (2010-02), n.6.7.3]
[ETSI EN 300 338-2 (2010-02), n.6.7.6]

Definition

This test checks the ability of the procedure to identify a situation where a frequency change is required in the acknowledgement and thus the 'able to comply' option is unavailable.

Method of measurement and required results

Set the EUT and TE in standby and be sure that the automatic acknowledgement feature of the EUT is turned off. Set the automated timeout of received non distress procedures on the EUT to some value long enough to complete all the tests prior to examining the timeout. Configure the TE with a ship station MMSI. From the TE send on the 6312.0 kHz a **DSC messages of priority safety requesting radio telephone addressed to the EUT** but let the destination station decide the working frequencies/**channel (Channel information is 126**). Verify that:

Scenario	Legend
TestV12H_0002	Is not required

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Item 'comply with channel change'	Result		Com-ment
	YES	NO	
the EUT sounds the routine alarm,	X		
the reason for and means to silence the alarm is displayed on the EUT,	X		
the information content of the received DSC message is displayed or available on the EUT	X		
The time since receiving the initial DSC message is displayed,	X		
The information content received by the EUT corresponds to that sent by the TE	X		
the EUT states that it is waiting for the operator to respond/select an acknowledgment, [ETSI EN 300 338-2, n.6.7.7]	X		
the 'able to comply' acknowledgment option is **NOT available**, [ETSI EN 300 338-2, n.6.7.7]	X		
the 'able to comply with channel change' acknowledgment option is available, [ETSI EN 300 338-2, n.6.7.7]	X		
the 'unable to comply' acknowledgment option is available, [ETSI EN 300 338-3, n.6.7.7]	X		
the option to terminate the procedure is available,	X		
The "comply with channel change" option shall require that the operator be able to enter/select channels before sending	X		
The operator shall not be required to compose any other elements of this acknowledgement	X		
the elapsed time, stage, and operator options are visible at top level,	X		

Select the "comply with channel change" option. Verify that:

Item	Result		Com-ment
	YES	NO	
the operator can select/enter a new frequency or channel, [ETSI EN 300 338-2, n.6.7.7]	X		
The operator shall not be required to compose any other elements of this acknowledgement. [ETSI EN 300 338-2, n.6.7.7]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Send the acknowledgement using offer for next communication simplex channel 6230.0 kHz. Verify that:

Item	Result		Com-ment
	YES	NO	
the EUT indicates that it is transmitting,	X		
the time since sending the acknowledgment is displayed,	X		
the information content of the sent acknowledgment is displayed or available on the EUT,	X		
the option to resend only the identica*l* acknowledgement is available,	X		
the EUT indicates that communications are ready,	X		
the option to terminate the procedure is available,	X		
the information content received by the TE corresponds to that sent by the EUT	X		
the time since acknowledgement, stage, and operator options are visible at top level	X		
You can speak to the EUT from the TE (6230.0 kHz),	X		
You can speak to the TE from the EUT (6230.0 kHz),	X		

Select option resend. Send the acknowledgement. Verify that:

Item	Result		Com-ment
	YES	NO	
the EUT indicates that it is transmitting,	X		
If an acknowledgement is resent by the operator it shall be identical to the first acknowledgment.	X		
the option to resend only the identica*l* acknowledgement is available,	X		
It shall not be possible to further edit the content.	X		
the elapsed time, stage, and operator options are visible at top level. (stage is “acknowledged”)	X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.3. Received non distress automated procedure with 'unable to comply' ('Unable to use preposed channel') tests (Manual acknowledgement)

[ETSI EN 300 338-2, n.6.7.7]
[ETSI EN 300 338-2, n.6.7.2]
[ETSI EN 300 338-2, n.6.7.3]
[ETSI EN 300 338-2, n.6.7.6]

Definition

This tests checks the ability of the procedure to send an 'unable to comply' acknowledgement.

Method of measurement and required results

Set the EUT and TE in standby and be sure that the automatic acknowledgement feature of the EUT is turned off. Configure the TE with a ship station MMSI. From the TE send on the 12 577.0 kHz a **DSC message of priority urgency requesting radio telephone** addressed to the EUT but the working frequencies/channel is unavailable (2187.5 kHz). Verify that:

Scenario	Legend
TestV12H_0003	Is not required

MMSI EUT 273000000, User ID 002730000.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Item	Result		Com-ment
	YES	NO	
the EUT sounds the urgency alarm,	X		
the reason for and means to silence the alarm is displayed on the EUT,	X		
the information content of the received DSC message is displayed or available on the EUT,	X		
the time since receiving the initial DSC message is displayed,	X		
the information content received by the EUT corresponds to that sent by the TE,	X		
the EUT states that it is waiting for the operator to respond/select an acknowledgment,	X		
the 'able to comply' acknowledgment option is **NOT** available, [ETSI EN 300 338-2, n.6.7.7]	X		
the 'able to comply with mode/frequency change' acknowledgment option is available, [ETSI EN 300 338-2, n.6.7.7]	X		
the 'unable to comply' acknowledgment option is available, [ETSI EN 300 338-2, n.6.7.7]	X		
EUT should **not** changed channel (to 2187.5 kHz) [ETSI EN 300 338-2, n.6.7.6]	X		
the option to terminate the procedure is available,	X		
the elapsed time, stage, and operator options are visible at top level.	X		

Select the "unable to comply" option. Verify that:

Item	Result		Com-ment
	YES	NO	
If this frequency is not available the radio shall display the call details and compose an "Unable to comply" acknowledgement with 104 as the first telecommand and 108 (Unable to use proposed channel) as the second telecommand. [ETSI EN 300 338-2, n.6.7.7]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Send the acknowledgement. Verify that:

Item	Result		Com-ment
	YES	NO	
the EUT indicates that it is transmitting,	X		
upon completion of the transmission the procedure terminates, [ETSI EN 300 338-2, n.6.7.8.]	X		
the information content received by the TE corresponds to that sent by the EUT.	X		See Log

(E212)

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.4. Received non distress automated procedure with 'comply with channel change' and option 'able to comply' is available tests (Manual acknowledgement)

[ETSI EN 300 338-2 (2010-02), n.6.7.7]
[ETSI EN 300 338-2 (2010-02), n.6.7.2]
[ETSI EN 300 338-2 (2010-02), n.6.7.3]
[ETSI EN 300 338-2 (2010-02), n.6.7.6]

Definition

This test checks the ability of the procedure to identify a situation where a frequency change is required in the acknowledgement and the 'able to comply' option is **available**.

Method of measurement and required results

Set the EUT and TE in standby and be sure that the automatic acknowledgement feature of the EUT is turned off. Set the automated timeout of received non distress procedures on the EUT to some value long enough to complete all the tests prior to examining the timeout. Configure the TE with a ship station MMSI. From the TE send on the 8414.5 kHz a **DSC messages of priority safety requesting radio telephone addressed to the EUT (frequency 8294.0 kHz**). Verify that:

Scenario	Legend
TestV12H_0110	Is not required

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Item 'comply with channel change'	Result		Com-ment
	YES	NO	
the EUT sounds the routine alarm,	X		
the reason for and means to silence the alarm is displayed on the EUT,	X		
the information content of the received DSC message is displayed or available on the EUT	X		
The time since receiving the initial DSC message is displayed,	X		
The information content received by the EUT corresponds to that sent by the TE	X		
the EUT states that it is waiting for the operator to respond/select an acknowledgment, [ETSI EN 300 338-2, n.6.7.7]	X		
the 'able to comply' acknowledgment option is **available**, [ETSI EN 300 338-2, n.6.7.7]	X		
the 'able to comply with channel change' acknowledgment option is available, [ETSI EN 300 338-2, n.6.7.7]	X		
the 'unable to comply' acknowledgment option is available, [ETSI EN 300 338-3, n.6.7.7]	X		
the option to terminate the procedure is available,	X		
The "comply with channel change" option shall require that the operator be able to enter/select channels before sending	X		
the elapsed time, stage, and operator options are visible at top level,	X		

Select the "comply with channel change" option. Verify that:

Item	Result		Com-ment
	YES	NO	
the operator can select/enter a new frequency or channel, [ETSI EN 300 338-2, n.6.7.7]		X	(38)
The operator shall not be required to compose any other elements of this acknowledgement. [ETSI EN 300 338-2, n.6.7.7]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Send the acknowledgement using offer for next communication on the frequency 8297.0 kHz. Verify that:

Item	Result		Com-ment
	YES	NO	
the EUT indicates that it is transmitting,	X		
the time since sending the acknowledgment is displayed,	X		
the information content of the sent acknowledgment is displayed or available on the EUT,	X		
the option to resend only the identical acknowledgement is available,	X		
the EUT indicates that communications are ready,	X		
the option to terminate the procedure is available,	X		
the information content received by the TE corresponds to that sent by the EUT	X		
the time since acknowledgement, stage, and operator options are visible at top level	X		
You can speak to the EUT from the TE (8297.0 kHz),	X		
You can speak to the TE from the EUT (8297.0 kHz),	X		

Select option resend. Send the acknowledgement. Verify that:

Item	Result		Com-ment
	YES	NO	
the EUT indicates that it is transmitting,	X		
If an acknowledgement is resent by the operator it shall be identical to the first acknowledgment.	X		
the option to resend only the identical acknowledgement is available,	X		
It shall not be possible to further edit the content.	X		
the elapsed time, stage, and operator options are visible at top level. (stage is “acknowledged”)	X		

(38) (E1078)
The operator has option “the comply with frequency change”.
However, there is no means of verifying the correctness of entering a new frequency by operator. The operator has the ability to send a new proposal for the ship station with duplex working channel.
At that time, for ship-to-ship communication should be used simplex channels.

[ETSI EN 300 338-2, C.2,f]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.5. Received non distress automated procedure with 'unable to comply' when option 'able to comply' is available tests (Manual acknowledgement)

[ETSI EN 300 338-2, n.6.7.7]
[ETSI EN 300 338-2, n.6.7.2]
[ETSI EN 300 338-2, n.6.7.3]
[ETSI EN 300 338-2, n.6.7.6]

Definition

This tests checks the ability of the procedure to send an 'unable to comply' acknowledgement when option 'able to comply' is available.

Method of measurement and required results

Set the EUT and TE in standby and be sure that the automatic acknowledgement feature of the TE is turned off in order to have time to inspect the EUT. From the TE send a DSC message of priority **safety** requesting radiotelephone addressed to the EUT. On HF send the DSC message on 16 804.5 kHz using RT distress and safety channel 16 420.0 kHz. Verify that:

Scenario	Legend
TestV12H_0001	Is not required

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Item	Result		Com-ment
	YES	NO	
the EUT sounds the routine alarm,	X		
the reason for and means to silence the alarm is displayed on the EUT,	X		
the information content of the received DSC message is displayed or available on the EUT,	X		
the time since receiving the initial DSC message is displayed,	X		
the information content received by the EUT corresponds to that sent by the TE,	X		
the EUT states that it is waiting for the operator to respond/select an acknowledgment,	X		
the 'able to comply' acknowledgment option is available, [ETSI EN 300 338-2, n.6.7.7]	X		
the 'able to comply with mode/frequency change' acknowledgment option is available, [ETSI EN 300 338-2, n.6.7.7]	X		
the 'unable to comply' acknowledgment option is available, [ETSI EN 300 338-2, n.6.7.7]	X		
the option to terminate the procedure is available,	X		
the elapsed time, stage, and operator options are visible at top level.	X		

Select the "unable to comply" option. Verify that:

Item	Result		Com-ment
	YES	NO	
The "unable to comply" option shall require that the operator select one of the 10 reasons (telecommand 2 symbols, 101 does not apply to ship stations) specified in ITU-R Recommendation M.493-13 [3] for being unable to comply (default "no reason given") before sending. [ETSI EN 300 338-2, n.6.7.7]	X		
The default reason is "no reason given" before sending. [ETSI EN 300 338-2, n.6.7.7]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Send the acknowledgement. Verify that:

Item	Result		Com-ment
	YES	NO	
the EUT indicates that it is transmitting,	X		
upon completion of the transmission the procedure terminates, [ETSI EN 300 338-2, n.6.7.8.]	X		
the information content received by the TE corresponds to that sent by the EUT.	X		See Log

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.6. The received non distress automated procedure manually acknowledge DSC test call tests

[ETSI EN 300 338-2 (2010-02),n.6.7.5]
[ETSI EN 300 338-2 (2010-02),n.6.7.8]
[Rec. ITU-R M.493-13, Ann.4,n.3.2.1.2.4.1]

3.2.1.2.4.1 Able to comply: This option should be provided if the frequencies and mode of subsequent communication are provided by the received DSC message and the equipment is capable of handling the requested communications**, or if the received DSC message is a polling, position request, or test** that has not been automatically acknowledged.

[Rec. ITU-R M.493-13, Ann.4,n.3.2.1.2.4.1]

Scenario	Legend
TestV12H_0008	Is not required

TestV12H_0008:Test call to EUT MMSI 273000000

Definition

This test checks the sequence of receiving an individually addressed DSC message, manually acknowledging with 'able to comply', when was received the DSC Test call.

Method of measurement and required results

a) Set the EUT and TE into standby. The auto acknowledging feature for test DSC messages shall be turned OFF. Configure the TE with a ship station MMSI. From the TE send a DSC message Test call. Verify that:

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Item Test call	Result YES	 NO	Com-ment
EUT sounds the routine alarm, [ETSI EN 300 338-2,n.6.7.5]	X		
the reason for and means to silence the alarm is displayed on the EUT, [ETSI EN 300 338-2,n.6.7.5]	X		
the fact one is engaged in receiving a non distress is displayed; [ETSI EN 300 338-2,n.6.7.3,a]	X		
the time since receiving the DSC call is displayed, [ETSI EN 300 338-2, n.6.7.3,b]	X		
Active state of procedure is displayed, [ETSI EN 300 338-2, n.6.7.3,d]	X		
The information content of the received DSC message is displayed or available on the EUT, 1) priority (category); 2) the sender; 3) to whom the DSC message was sent (format and MMSI or area); 4) means of subsequent communication or the requested or sent information; 5) frequencies and mode of subsequent communication (if any); 6) on HF the frequency of the DSC message; 7) whether or not the DSC message requires an acknowledgement; [ETSI EN 300 338-2, n.6.7.3,f]	X		
the information content displayed on the TE corresponds to that displayed on the EUT	X		
the option to send able to comply" acknowledgement is available, [ETSI EN 300 338-2, n.6.7.2,g(1),i]	X		
The operator shall not be required to compose any elements of this acknowledgement [ETSI EN 300 338-2, n.6.7.7]	X		
The "able to comply" option shall only require a single action by the operator to respond (e.g. lifting the handset). [ETSI EN 300 338-2, n.6.7.7]	X		
the 'able to comply with mode/frequency change' acknowledgment option is **NOT** available, [ETSI EN 300 338-2, n.6.7.2,g(1),ii]	X		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.7.2,g(1),iv]	X		
the 'unable to comply' acknowledgment option is **NOT** available, [ETSI EN 300 338-2, n.6.7.2,g(1),iii]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.7.2,g(1),v]	X		
the EUT states that it is waiting for the operator to respond/select an acknowledgment, [ETSI EN 300 338-2, n.6.7.3,i]	X		
the time since receiving initial DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.7.3]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Acknowledge the DSC message from the EUT with “able to comply". Verify that:

Item Test call acknowledgement	Result		Com-ment
	YES	NO	
the EUT indicates that it is transmitting, [ETSI EN 300 338-2, n.6.7.3,i]	X		
the information content of the sent acknowledgment is displayed or available on the EUT, [ETSI EN 300 338-2, n.6.7.3,g]	X		
the EUT indicates that the procedure is acknowledged, [ETSI EN 300 338-2, n.6.7.3,i(3)]	X		
the fact one is engaged in receiving a non distress is displayed; [ETSI EN 300 338-2,n.6.7.3,a]	X		
the elapsed time since acknowledgement is displayed, [ETSI EN 300 338-2, n.6.7.3,c]	X		
Active state of procedure is displayed, [ETSI EN 300 338-2, n.6.7.3,d]	X		
the option to resend only the *identical* acknowledgement is available, [ETSI EN 300 338-2, n.6.7.2,g(2),i]		X	(39)
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.7.2,g(2),ii]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.7.2,g(2),iii]	X		
the information content displayed on the TE corresponds to that displayed on the EUT, [ETSI EN 300 338-2, n.6.7.3,g]	X		
the time since acknowledgment, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.7.3]	X		

(39) (E1089)
Broken the rules resend test/polling DSC acknowledgement for the special case.
The EUT has active receiving distress automated procedure. From TE is sent test/poilling call addressed to the EUT. From TE transmitted acknowledgement. The option resend acknowledgement for receiving non distress automated procrdure is available. It meets requirements.
It is sent from TE identical a test/polling call. EUT received the call, but now the option resend is not available. It does not meet requirements. When operator select option HOLD and next ACTIVATE the receiving non distress automated procedure, the option resend will be available again.

[ETSI EN 300 338-2, n.6.7.2,g(2),i]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.7. The received non distress automated procedure manually acknowledge DSC polling call tests

[ETSI EN 300 338-2 (2010-02),n.6.7.5]
[ETSI EN 300 338-2 (2010-02),n.6.7.8]
[Rec. ITU-R M.493-13, Ann.4,n.3.2.1.2.4.1]

3.2.1.2.4.1 Able to comply: This option should be provided if the frequencies and mode of subsequent communication are provided by the received DSC message and the equipment is capable of handling the requested communications**, or if the received DSC message is a polling, position request, or test** that has not been automatically acknowledged.

[Rec. ITU-R M.493-13, Ann.4,n.3.2.1.2.4.1]

Scenario	Legend
TestV12H_0113	Is not required

TestV12H_0113: Polling call to EUT MMSI 273000000

Definition

This test checks the sequence of receiving an individually addressed DSC message, manually acknowledging with 'able to comply', when was received the DSC polling call.

Method of measurement and required results

a) Set the EUT and TE into standby. Set DSC frequencies for EUT 4208.0 kHz, TE 4219.5 kHz.The auto acknowledging feature for polling DSC messages shall be turned OFF. Configure the TE with a coast station MMSI. From the TE send a DSC message Polling call on the 4219.5 kHz. Verify that:

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Item Polling call	Result YES	 NO	Com-ment
EUT sounds the routine alarm, [ETSI EN 300 338-2,n.6.7.5]	X		
the reason for and means to silence the alarm is displayed on the EUT, [ETSI EN 300 338-2,n.6.7.5]	X		
the fact one is engaged in receiving a non distress is displayed; [ETSI EN 300 338-2,n.6.7.3,a]	X		
the time since receiving the DSC call is displayed, [ETSI EN 300 338-2, n.6.7.3,b]	X		
Active state of procedure is displayed, [ETSI EN 300 338-2, n.6.7.3,d]	X		
The information content of the received DSC message is displayed or available on the EUT, 1) priority (category); 2) the sender; 3) to whom the DSC message was sent (format and MMSI or area); 4) means of subsequent communication or the requested or sent information; 5) frequencies and mode of subsequent communication (if any); 6) on HF the frequency of the DSC message; 7) whether or not the DSC message requires an acknowledgement; [ETSI EN 300 338-2, n.6.7.3,f]	X		
the information content displayed on the TE corresponds to that displayed on the EUT	X		
the option to send able to comply" acknowledgement is available, [ETSI EN 300 338-2, n.6.7.2,g(1),i]	X		
The operator shall not be required to compose any elements of this acknowledgement [ETSI EN 300 338-2, n.6.7.7]	X		
The "able to comply" option shall only require a single action by the operator to respond (e.g. lifting the handset). [ETSI EN 300 338-2, n.6.7.7]	X		
the 'able to comply with mode/frequency change' acknowledgment option is **NOT** available, [ETSI EN 300 338-2, n.6.7.2,g(1),ii]	X		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.7.2,g(1),iv]	X		
the 'unable to comply' acknowledgment option is **NOT** available, [ETSI EN 300 338-2, n.6.7.2,g(1),iii]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.7.2,g(1),v]	X		
the EUT states that it is waiting for the operator to respond/select an acknowledgment, [ETSI EN 300 338-2, n.6.7.3,i]	X		
the time since receiving initial DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.7.3]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Acknowledge the DSC message from the EUT with “able to comply". Verify that:

Item Test call acknowledgement	Result		Com-ment
	YES	NO	
the EUT indicates that it is transmitting, [ETSI EN 300 338-2, n.6.7.3,i]	X		
the information content of the sent acknowledgment is displayed or available on the EUT, [ETSI EN 300 338-2, n.6.7.3,g]	X		
the EUT indicates that the procedure is acknowledged, [ETSI EN 300 338-2, n.6.7.3,i(3)]	X		
the fact one is engaged in receiving a non distress is displayed; [ETSI EN 300 338-2,n.6.7.3,a]	X		
the elapsed time since acknowledgement is displayed, [ETSI EN 300 338-2, n.6.7.3,c]	X		
Active state of procedure is displayed, [ETSI EN 300 338-2, n.6.7.3,d]	X		
On HF the frequency of the acknowledgement is displayed (4208.0 kHz); [ETSI EN 300 338-2,n.6.7.3,a]	X		
the option to resend only the *identical* acknowledgement is available, [ETSI EN 300 338-2, n.6.7.2,g(2),i]		X	(39)
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.7.2,g(2),ii]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.7.2,g(2),iii]	X		
the information content displayed on the TE corresponds to that displayed on the EUT, [ETSI EN 300 338-2, n.6.7.3,g]	X		
the time since acknowledgment, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.7.3]	X		

(39) (E1089)
Broken the rules resend test/polling DSC acknowledgement for the special case.
The EUT has active receiving distress automated procedure. From TE is sent test/poilling call addressed to the EUT. From TE transmitted acknowledgement. The option resend acknowledgement for receiving non distress automated procrdure is available. It meets requirements.
It is sent from TE identical a test/polling call. EUT received the call, but now the option resend is not available. It does not meet requirements. When operator select option HOLD and next ACTIVATE the receiving non distress automated procedure, the option resend will be available again.

[ETSI EN 300 338-2, n.6.7.2,g(2),i]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.8. The received non distress automated procedure manually acknowledge position request tests

[ETSI EN 300 338-2 (2010-02),n.6.7.5]
[ETSI EN 300 338-2 (2010-02),n.6.7.8]
[Rec. ITU-R M.493-13, Ann.4,n.3.2.1.2.4.1]

3.2.1.2.4.1 Able to comply: This option should be provided if the frequencies and mode of subsequent communication are provided by the received DSC message and the equipment is capable of handling the requested communications**, or if the received DSC message is a polling, position request, or test** that has not been automatically acknowledged.

[Rec. ITU-R M.493-13, Ann.4,n.3.2.1.2.4.1]

When auto acknowledging position, poll, and test DSC messages, no alarm shall sound.

[ETSI EN 300 338-2,n.6.7.5]

When auto acknowledging **position**, poll, and test DSC messages, the procedure shall **self-terminate** after sending the acknowledgement.

[ETSI EN 300 338-2,n.6.7.8]

Scenario	Legend
TestV12H_0114	Is not required

TestV12H_0114: Position request call to EUT MMSI 273000000

Definition

This test checks the sequence of receiving an individually addressed DSC message, manually acknowledging with 'able to comply', when was received the DSC position request.

Method of measurement and required results

a) Set the EUT and TE into standby. The auto acknowledging feature for Position request messages shall be turned OFF. From the TE send a DSC message position request. Verify that:

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Item **Position request call**	**Result**		**Com-ment**
	YES	**NO**	
EUT sounds the routine alarm, [ETSI EN 300 338-2,n.6.7.5]	**X**		
the reason for and means to silence the alarm is displayed on the EUT, [ETSI EN 300 338-2,n.6.7.5]	**X**		
the fact one is engaged in receiving a non distress is displayed; [ETSI EN 300 338-2,n.6.7.3,a]	**X**		
the time since receiving the DSC call is displayed, [ETSI EN 300 338-2, n.6.7.3,b]	**X**		
Active state of procedure is displayed, [ETSI EN 300 338-2, n.6.7.3,d]	**X**		
The information content of the received DSC message is displayed or available on the EUT, 1) priority (category); 2) the sender; 3) to whom the DSC message was sent (format and MMSI or area); 4) means of subsequent communication or the requested or sent information; 5) frequencies and mode of subsequent communication (if any); 6) on HF the frequency of the DSC message; 7) whether or not the DSC message requires an acknowledgement; [ETSI EN 300 338-2, n.6.7.3,f]	**X**		
the information content displayed on the TE corresponds to that displayed on the EUT	**X**		
the option to send <u>able to comply"</u> acknowledgement is available, [ETSI EN 300 338-2, n.6.7.2,g(1),i]	**X**		
The operator shall not be required to compose any elements of this acknowledgement [ETSI EN 300 338-2, n.6.7.7]	**X**		
The "able to comply" option shall only require a single action by the operator to respond (e.g. lifting the handset). [ETSI EN 300 338-2, n.6.7.7]	**X**		
the 'able to comply with mode/frequency change' acknowledgment option is **<u>NOT</u>** available, [ETSI EN 300 338-2, n.6.7.2,g(1),ii]	**X**		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.7.2,g(1),iv]	**X**		
the 'unable to comply' acknowledgment option is available, [ETSI EN 300 338-2, n.6.7.2,g(1),iii]		**X**	(39)
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.7.2,g(1),v]	**X**		
the EUT states that it is waiting for the operator to respond/select an acknowledgment, [ETSI EN 300 338-2, n.6.7.3,i]	**X**		
the time since receiving initial DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.7.3]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Acknowledge the DSC message from the EUT with “able to comply". Verify that:

Item Position request acknowledgement	Result		Com-ment
	YES	NO	
the EUT indicates that it is transmitting, [ETSI EN 300 338-2, n.6.7.3,i]	X		
the information content of the sent acknowledgment is displayed or available on the EUT, [ETSI EN 300 338-2, n.6.7.3,g]	X		
the EUT indicates that the procedure is acknowledged, [ETSI EN 300 338-2, n.6.7.3,i(3)]	X		
the fact one is engaged in receiving a distress is displayed; [ETSI EN 300 338-2,n.6.7.3,a]	X		
the elapsed time since acknowledgement is displayed, [ETSI EN 300 338-2, n.6.7.3,c]	X		
Active state of procedure is displayed, [ETSI EN 300 338-2, n.6.7.3,d]	X		
the option to resend only the *identical* acknowledgement is available, [ETSI EN 300 338-2, n.6.7.2,g(2),i]	X		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.7.2,g(2),ii]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.7.2,g(2),iii]	X		
the information content displayed on the TE corresponds to that displayed on the EUT, [ETSI EN 300 338-2, n.6.7.3,g]	X		
the time since acknowledgment, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.7.3]	X		

b) Set the EUT and TE into standby. Reset the EUT own position information. The auto acknowledging feature for Position request messages shall be turned OFF. From the TE send a DSC message position request. Verify that:

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Item **Position request call**	**Result**		**Com-ment**
	YES	**NO**	
EUT sounds the routine alarm, [ETSI EN 300 338-2,n.6.7.5]	**X**		
The reason for and means to silence the alarm is displayed on the EUT, [ETSI EN 300 338-2,n.6.7.5]	**X**		
The fact one is engaged in receiving a distress is displayed; [ETSI EN 300 338-2,n.6.7.3,a]	**X**		
The time since receiving the DSC call is displayed, [ETSI EN 300 338-2, n.6.7.3,b]	**X**		
Active state of procedure is displayed, [ETSI EN 300 338-2, n.6.7.3,d]	**X**		
The information content of the received DSC message is displayed or available on the EUT, 1) priority (category); 2) the sender; 3) to whom the DSC message was sent (format and MMSI or area); 4) means of subsequent communication or the requested or sent information; 5) frequencies and mode of subsequent communication (if any); 6) on HF the frequency of the DSC message; 7) whether or not the DSC message requires an acknowledgement; [ETSI EN 300 338-2, n.6.7.3,f]	**X**		
The information content displayed on the TE corresponds to that displayed on the EUT	**X**		
The option to send able to comply" acknowledgement is available, [ETSI EN 300 338-2, n.6.7.2,g(1),i]	**X**		
The operator shall not be required to compose any elements of this acknowledgement [ETSI EN 300 338-2, n.6.7.7]	**X**		
The "able to comply" option shall only require a single action by the operator to respond (e.g. lifting the handset). [ETSI EN 300 338-2, n.6.7.7]	**X**		
The 'able to comply with mode/frequency change' acknowledgment option is **NOT** available, [ETSI EN 300 338-2, n.6.7.2,g(1),ii]	**X**		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.7.2,g(1),iv]	**X**		
The 'unable to comply' acknowledgment option is available, [ETSI EN 300 338-2, n.6.7.2,g(1),iii]		**X**	(E1080)
The option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.7.2,g(1),v]	**X**		
The EUT states that it is waiting for the operator to respond/select an acknowledgment, [ETSI EN 300 338-2, n.6.7.3,i]	**X**		
The time since receiving initial DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.7.3]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select the “unable to comply” option. Verify that:

Item	Result		Com-ment
	YES	NO	
“Unable to comply” acknowledgments to position requests should only require a single action by the operator to send. [ETSI EN 300 338-2, n.6.7.7] [Rec. ITU-R M.493-13, Ann.4, n.3.2.1.2.5.4]	X		
The procedure should automatically place the “no information symbol” in the position and time messages of the acknowledgement. [ETSI EN 300 338-2, n.6.7.7] [Rec. ITU-R M.493-13, Ann.4, n.3.2.1.2.5.4]	X		

Send the acknowledgement. Verify that:

Item	Result		Com-ment
	YES	NO	
The EUT indicates that it is transmitting,	X		
Upon completion of the transmission the procedure terminates, [ETSI EN 300 338-2, n.6.7.8.]	X		
The information content received by the TE corresponds to that sent by the EUT.	X		See Log

(39) (E1089)
Broken the rules resend test/polling DSC acknowledgement for the special case.
The EUT has active receiving distress automated procedure. From TE is sent test/poilling call addressed to the EUT. From TE transmitted acknowledgement. The option resend acknowledgement for receiving non distress automated procrdure is available. It meets requirements.
It is sent from TE identical a test/polling call. EUT received the call, but now the option resend is not available. It does not meet requirements. When operator select option HOLD and next ACTIVATE the receiving non distress automated procedure, the option resend will be available again.

[ETSI EN 300 338-2, n.6.7.2,g(2),i]

(40) (E1080)
There is no option "unable to comply" acknowledgement of position request call.
While in the case of a position request, the option shall only require a single action by the operator to send, and the procedure shall indicate non compliance by filling the position and time information with the no information character.

[ETSI EN 300 338-2, n.6.7.7.]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.9. Received non distress automated procedure if acknowledgement not requested tests

[ETSI EN 300 338-2(2010-02), n.6.7.2]
[ETSI EN 300 338-3(2010-02), n.6.7.3]
[ETSI EN 300 338-3(2010-02), n.6.7.6]

The received non distress automated procedure shall handle the following events:
c) denote the procedure as acknowledged if the DSC message requires no acknowledgement;
f) tune the general receiver and transmitter to the frequencies of subsequent communications when and if required;

[ETSI EN 300 338-2, n.6.7.2]

If the DSC message requires subsequent communications, the general receiver and transmitter shall be tuned to the frequencies of the subsequent communications given in the acknowledgement if acknowledgments are requested.
Otherwise the general receiver shall be tuned to the frequency of subsequent communication given by the initial DSC message:
a) The operator shall have a 10 s warning prior to any tuning if the new subsequent frequency is different from the current.
b) The operator shall be able to pause the tuning in case engaged in traffic or accept the tuning.

[ETSI EN 300 338-2, n.6.7.6]

Scenario	**Legend**
TestV12H_0005	*TestH_0N0E*
TestV12H_0006	*TestH_0N0E*
TestV12H_0007	Is not required

TestV12H_0005: Geographic area ugency RT call (4125.0 kHz).
TestV12H_0006: Geographic area safety FEC call (6268.0 kHz).
TestV12H_0007: Group routine RT call, Group MMSI: 027300000 (12353.0 kHz)

Definition

This tests checks the procedure when no need to send acknowledgement.

Method of measurement and required results

a) Set the EUT and TE in standby. Set value of automated termination. From the TE send on the 4207.5 kHz a DSC message of priority **urgency to Geographic area RT 4125.0 kHz**. Verify that:

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

TestV12H_0005

Item Urgency Geographic area RT	Result		Com-ment
	YES	NO	
the EUT sounds the urgency alarm, [ETSI EN 300 338-2,n.6.7.5]	X		
the reason for and means to silence the alarm is displayed on the EUT, [ETSI EN 300 338-2,n.6.7.5]	X		
the alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.7.5]	X		
the fact one is engaged in receiving a non distress is displayed; [ETSI EN 300 338-2,n.6.7.3,a]	X		
the time since receiving the DSC call is displayed, [ETSI EN 300 338-2, n.6.7.3,b]	X		
Active state of procedure is displayed, [ETSI EN 300 338-2, n.6.7.3,d]	X		
The information content of the received DSC message is displayed or available on the EUT, 1) priority (category); 2) the sender; 3) to whom the DSC message was sent (format and MMSI or area); 4) means of subsequent communication or the requested or sent information; 5) frequencies and mode of subsequent communication (if any); 6) on HF the frequency of the DSC message; 7) whether or not the DSC message requires an acknowledgement; [ETSI EN 300 338-2, n.6.7.3,f]	X		
the information content displayed on the TE corresponds to that displayed on the EUT	X		
the option to send "able to comply" acknowledgement is NOT available, [ETSI EN 300 338-2, n.6.7.2,g(1),i]	X		
the 'able to comply with mode/frequency change' acknowledgment option is NOT available, [ETSI EN 300 338-2, n.6.7.2,g(1),ii]	X		
the 'unable to comply' acknowledgment option is NOT available, [ETSI EN 300 338-2, n.6.7.2,g(1),iii]	X		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.7.2,g(1),iv]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.7.2,g(1),v]	X		
the time since receiving initial DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.7.3]	X		
the EUT indicates that it is acknowledged stage, [ETSI EN 300 338-2, n.6.7.2,c]	X		
You can communication from TE to EUT (4125.0 kHz), [ETSI EN 300 338-2, n.6.7.6]		X	(41)

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Set the EUT and TE in standby. From the TE send a DSC message of priority safety to Geographic area RT 6215.0 kHz. Verify that:

TestV12H_0006

Item **Safety Geographic area FEC call**	**Result**		**Com-ment**
	YES	**NO**	
the EUT sounds the routine alarm, [ETSI EN 300 338-2,n.6.7.5]	**X**		
the reason for and means to silence the alarm is displayed on the EUT, [ETSI EN 300 338-2,n.6.7.5]	**X**		
the fact one is engaged in receiving a non distress is displayed; [ETSI EN 300 338-2,n.6.7.3,a]	**X**		
the time since receiving the DSC call is displayed, [ETSI EN 300 338-2, n.6.7.3,b]	**X**		
Active state of procedure is displayed, [ETSI EN 300 338-2, n.6.7.3,d]	**X**		
The information content of the received DSC message is displayed or available on the EUT, 1) priority (category); 2) the sender; 3) to whom the DSC message was sent (format and MMSI or area); 4) means of subsequent communication or the requested or sent information; 5) frequencies and mode of subsequent communication (if any); 6) on HF the frequency of the DSC message; 7) whether or not the DSC message requires an acknowledgement; [ETSI EN 300 338-2, n.6.7.3,f]	**X**		
the information content displayed on the TE corresponds to that displayed on the EUT	**X**		
the option to send "able to comply" acknowledgement is NOT available, [ETSI EN 300 338-2, n.6.7.2,g(1),i]	**X**		
the 'able to comply with mode/frequency change' acknowledgment option is NOT available, [ETSI EN 300 338-2, n.6.7.2,g(1),ii]	**X**		
the 'unable to comply' acknowledgment option is NOT available, [ETSI EN 300 338-2, n.6.7.2,g(1),iii]	**X**		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.7.2,g(1),iv]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.7.2,g(1),v]	**X**		
the time since receiving initial DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.7.3]	**X**		
the EUT indicates that it is acknowledged stage, [ETSI EN 300 338-2, n.6.7.2,c]	**X**		
You can communication from TE to EUT (6268.0 kHz), [ETSI EN 300 338-2, n.6.7.6]		**X**	(41)

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

c) Set the EUT and TE in standby. Set frequencies EUT 12577.5 kHz, TE 12675.0 kHz. From the TE send on the frequency 12675.0 kHz a DSC message of priority routine Group call RT channel 12353.0 kHz. Verify that:

TestV12H_0007

Item Routine Group RT call	Result		Com-ment
	YES	NO	
the EUT sounds the routine alarm, [ETSI EN 300 338-2,n.6.7.5]	X		
the reason for and means to silence the alarm is displayed on the EUT, [ETSI EN 300 338-2,n.6.7.5]	X		
the fact one is engaged in receiving a non distress is displayed; [ETSI EN 300 338-2,n.6.7.3,a]	X		
the time since receiving the DSC call is displayed, [ETSI EN 300 338-2, n.6.7.3,b]	X		
Active state of procedure is displayed, [ETSI EN 300 338-2, n.6.7.3,d]	X		
The information content of the received DSC message is displayed or available on the EUT, 1) priority (category); 2) the sender; 3) to whom the DSC message was sent (format and MMSI or area); 4) means of subsequent communication or the requested or sent information; 5) frequencies and mode of subsequent communication (if any); 6) on HF the frequency of the DSC message; 7) whether or not the DSC message requires an acknowledgement; [ETSI EN 300 338-2, n.6.7.3,f]	X		
the information content displayed on the TE corresponds to that displayed on the EUT	X		
the option to send "able to comply" acknowledgement is NOT available, [ETSI EN 300 338-2, n.6.7.2,g(1),i]	X		
the 'able to comply with mode/frequency change' acknowledgment option is NOT available, [ETSI EN 300 338-2, n.6.7.2,g(1),ii]	X		
the 'unable to comply' acknowledgment option is NOT available, [ETSI EN 300 338-2, n.6.7.2,g(1),iii]	X		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.7.2,g(1),iv]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.7.2,g(1),v]	X		
the time since receiving initial DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.7.3]	X		
the EUT indicates that it is acknowledged stage, [ETSI EN 300 338-2, n.6.7.2,c]	X		
You can communication from TE to EUT (12353.0 kHz), [ETSI EN 300 338-2, n.6.7.6]		X	(41)

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

(41) (E1084)

Broken the rules for handling receiving non distress automated procedure.

For receiving non distress automated procedures the automated tuning to the communication frequency occurs after shutdown alarm by operator. While the automated tuning to the communication frequency shall occur upon the reception a call.

[ETSI EN 300 338-2, 6.7.6]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.10. Auto acknowledgement options tests

[ETSI EN 300 338-2 (2010-02), n.6.7.8]
[ETSI EN 300 338-2 (2010-02), n.6.3]

The following configuration options for acknowledgements and timers shall be available with the following factory defaults:
c) the option to auto acknowledge polling DSC messages: set to on;
d) the option to auto acknowledge test DSC messages: set to on;
e) the option to auto acknowledge position request DSC messages: set to off;
f) the option to auto acknowledge individually addressed, non distress DSC messages: set to on (see clause 6.7.7);

[ETSI EN 300 338-2, n.6.3]

In the case of a received individual call, the radio shall be capable of identifying if the requested working channel identified in the call is available in the equipment:

If this channel is available the radio shall display the call details and compose an **"able to comply" acknowledgement which shall only be transmitted manually**. Switching to the channel identified shall only be performed after a manual "able to comply" acknowledgement has been transmitted.

If this channel is not available the radio shall display the call details and compose an **"unable to comply" acknowledgement** with 104 as the first telecommand and 108 as the second telecommand. This acknowledgement **may be automatic**.

[ETSI EN 300 338-2, n.6.7.7]

When **auto acknowledging position, poll, and test** DSC messages, the procedure shall **self-terminate** after sending the acknowledgement.

[ETSI EN 300 338-2, n.6.7.8]

3.2.1.2 Handling acknowledgments

3.2.1.2.1 If the equipment has been set up to automatically acknowledge individually addressed polling, position request, or test DSC messages, no alarm should sound and the automated procedure should self-terminate.

3.2.1.2.2 All individually addressed DSC messages with subsequent communications should be automatically acknowledged as a default. In this case the alarm should sound after the acknowledgement is sent.

[Rec. ITU-R M.493-13, Ann.4,n.3.2.1.2]

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Verify default setting options:

Auto acknowledgement options					
Subject		**Value**	**Result**		**Comment**
			OK	**NO**	
Test call	Default setting	ON			Should be ON
Polling call	Default setting	ON			Should be ON
Position request call	Default setting	OFF			Should be OFF
Individually addressed non-distress call	Default setting	ON			Should be ON Should be possible with “Unable to comply” only

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.11. The received non distress automated procedure auto acknowledge individually addressed non distress DSC messages tests

[ETSI EN 300 338-2 (2010-02), n.6.3]
[ETSI EN 300 338-2 (2010-02), n.6.7.7]
[ETSI EN 300 338-2 (2010-02), n.6.7.8]
[Rec.ITU-R M.493-13, Ann.4, n.3.2.1.2]
[Rec.ITU-R M.541-9, Ann.2, n.2.1]

Scenario	Legend
TestV12H_0112	Is not required

00:00 MMSI EUT 273000000, User ID 002730000, RT 4207.5 kHz.
05:00 MMSI EUT 273000000, User ID 002730000, RT 4146.0 kHz.

Definition

This tests checks the ability of the procedure to send **only** an auto acknowledging with 'unable to comply' acknowledgement.

Method of measurement and required results

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

a) Set the EUT and TE in standby and be sure that the automatic acknowledgement non distress messages feature of the EUT is turned on. Configure the TE with a coast station MMSI. From the TE send on the 4207.5 kHz a **DSC message of priority safety requesting radio telephone** addressed to the EUT (4207.5 kHz). Verify that:

00:00 TestV12V_0112

Item **Unable to comply automatic ack**	**Result**		**Com-ment**
	YES	**NO**	
the EUT indicates that it is transmitting the acknowledgment, [ETSI EN 300 338-2, n.6.7.3,i(2)]	**X**		
No alarm shall be sound [ETSI EN 300 338-2, n.6.7.5]	**X**		
the procedure terminates after completing the transmission ACK an “unable to comply” [ETSI EN 300 338-2, n.6.7.8]	**X**		
the information content received by the TE corresponds to that sent by the EUT (read from Log)	**X**		
"Unable to comply" acknowledgement with 104 as the first telecommand and 108 as the second telecommand. [ETSI EN 300 338-2, n.6.7.7]	**X**		
The start of the transmission of automatic acknowledgement sequence should be within **30 s for HF** and MF or within 3 s for VHF after the reception of the complete call sequence. [Rec. ITU-R M.541-9, Ann.2, n.2.1.1.3.2]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Set the EUT and TE in standby and be sure that the automatic acknowledgement non distress messages feature of the EUT is turned on. Configure the TE with a coast station MMSI. Set frequencies EUT 4208.0 kHz TE 4219.5 kHz. From the TE send a **DSC message of priority routine requesting radio telephone** addressed to the EUT (4146.0 kHz). Verify that:

05:00 TestV12H_0112

Item "able to comply" automatic ack	Result		Com-ment
	YES	NO	
EUT sounds the routine alarm, [ETSI EN 300 338-2,n.6.7.5]	X		
the reason for and means to silence the alarm is displayed on the EUT, [ETSI EN 300 338-2,n.6.7.5]	X		
the fact one is engaged in receiving a non distress is displayed; [ETSI EN 300 338-2,n.6.7.3,a]	X		
the time since receiving the DSC call is displayed, [ETSI EN 300 338-2, n.6.7.3,b]	X		
Active state of procedure is displayed, [ETSI EN 300 338-2, n.6.7.3,d]	X		
The information content of the received DSC message is displayed or available on the EUT, [ETSI EN 300 338-2, n.6.7.3,f]	X		
the option to send able to comply" acknowledgement is available, [ETSI EN 300 338-2, n.6.7.2,g(1),i]	X		
The acknowledgement shall **only** be transmitted manually [ETSI EN 300 338-2, n.6.7.7]	X		
The operator shall not be required to compose any elements of this acknowledgement [ETSI EN 300 338-2, n.6.7.7]	X		
The "able to comply" option shall only require a single action by the operator to respond (e.g. lifting the handset). [ETSI EN 300 338-2, n.6.7.7]	X		
EUT should not changed channel (4146.0 kHz) [ETSI EN 300 338-2, n.6.7.6]	X		
the 'able to comply with mode/frequency change' acknowledgment option is available, [ETSI EN 300 338-2, n.6.7.2,g(1),ii]	X		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.7.2,g(1),iv]	X		
the 'unable to comply' acknowledgment option is available, [ETSI EN 300 338-2, n.6.7.2,g(1),iii]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.7.2,g(1),v]	X		
the EUT states that it is waiting for the operator to respond/select an acknowledgment, [ETSI EN 300 338-2, n.6.7.3,i]	X		
the time since receiving initial DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.7.3]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Acknowledge the DSC message from the EUT with “able to comply" manually. Verify that:

Item “able to comply”	**Result**		**Com-ment**
	YES	**NO**	
the EUT indicates that it is transmitting, [ETSI EN 300 338-2, n.6.7.3,i]	**X**		
the information content of the sent acknowledgment is displayed or available on the EUT, [ETSI EN 300 338-2, n.6.7.3,g]	**X**		
the EUT indicates that communications are ready, [ETSI EN 300 338-2, n.6.7.3,i(3)]	**X**		
the fact one is engaged in receiving a non distress is displayed; [ETSI EN 300 338-2,n.6.7.3,a]	**X**		
the elapsed time since acknowledgement is displayed, [ETSI EN 300 338-2, n.6.7.3,c]	**X**		
Active state of procedure is displayed, [ETSI EN 300 338-2, n.6.7.3,d]	**X**		
the option to resend only the *identical* acknowledgement is available, [ETSI EN 300 338-2, n.6.7.2,g(2),i]	**X**		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.7.2,g(2),ii]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.7.2,g(2),iii]	**X**		
the information content displayed on the TE corresponds to that displayed on the EUT, [ETSI EN 300 338-2, n.6.7.3,g]	**X**		
the time since acknowledgment, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.7.3]	**X**		
If the DSC message requires subsequent communications, the general receiver and transmitter shall be tuned to the frequencies of the subsequent communications given in the acknowledgement [ETSI EN 300 338-2, n.6.7.6]	**X**		
You can speak to the EUT from the TE (4146.0 kHz),	**X**		
You can speak to the TE from the EUT (4146.0 kHz).	**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.12. The received non distress automated procedure auto acknowledge DSC test call tests

[ETSI EN 300 338-2 (2010-02),n.6.7.5]
[ETSI EN 300 338-2 (2010-02),n.6.7.8]
[Rec. ITU-R M.493-13, Ann.4,n.3.2.1.2.4.1]

3.2.1.2.4.1 Able to comply: This option should be provided if the frequencies and mode of subsequent communication are provided by the received DSC message and the equipment is capable of handling the requested communications**, or if the received DSC message is a polling, position request, or test** that has not been automatically acknowledged.

[Rec. ITU-R M.493-13, Ann.4,n.3.2.1.2.4.1]

When auto acknowledging position, poll, and test DSC messages, no alarm shall sound.

[ETSI EN 300 338-2,n.6.7.5]

When auto acknowledging position, poll, and **test DSC messages**, the procedure shall **self-terminate** after sending the acknowledgement.

[ETSI EN 300 338-2,n.6.7.8]

Scenario	Legend
TestV12H_0008	Is not required

TestV12H_0008: Test call to EUT MMSI 273000000

Definition

This test checks the sequence of receiving an individually addressed DSC message, auto acknowledging with 'able to comply', when was received the DSC Test call.

Method of measurement and required results

Set the EUT and TE into standby. The auto acknowledging feature for test DSC messages shall be turned on. Configure the TE with a ship station MMSI. From the TE send a DSC message Test call. Verify that:

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Item **Test call automatic acknowledgement**	**Result**		**Com-ment**
	YES	**NO**	
the EUT indicates that it is transmitting the acknowledgment, [ETSI EN 300 338-2, n.6.7.3,i(2)]	**X**		
No alarm shall be sound [ETSI EN 300 338-2, n.6.7.5]		**X**	(42)
the procedure terminates after completing the transmission acknowledgement [ETSI EN 300 338-2, n.6.7.8]	**X**		
the information content received by the TE corresponds to that sent by the EUT (read from Log)	**X**		
The start of the transmission of automatic acknowledgement sequence should be within **30 s for HF and MF** or within 3 s for VHF after the reception of the complete call sequence. [Rec. ITU-R M.541-9, Ann.2, n.2.1.1.3.2]	**X**		

(42) (E1083)(E1110)
When auto acknowledging test, polling, position request DSC call sounds alarm.
While when auto acknowledging test, polling, position request DSC call no alarm shall sound.

[ETSI EN 300 338-2, n.6.7.5]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.13. The received non distress automated procedure auto acknowledge DSC polling call tests

[ETSI EN 300 338-2 (2010-02),n.6.7.5]
[ETSI EN 300 338-2 (2010-02),n.6.7.8]
[Rec. ITU-R M.493-13, Ann.4,n.3.2.1.2.4.1]

3.2.1.2.4.1 Able to comply: This option should be provided if the frequencies and mode of subsequent communication are provided by the received DSC message and the equipment is capable of handling the requested communications**, or if the received DSC message is a polling, position request, or test** that has not been automatically acknowledged.

[Rec. ITU-R M.493-13, Ann.4,n.3.2.1.2.4.1]

When auto acknowledging position, poll, and test DSC messages, no alarm shall sound.

[ETSI EN 300 338-2,n.6.7.5]

When auto acknowledging position**, poll**, and test DSC messages, the procedure shall **self-terminate** after sending the acknowledgement.

[ETSI EN 300 338-2,n.6.7.8]

Scenario	Legend
TestV12V_0113	Is not required

TestV12V_0113: Polling call to EUT MMSI 273000000

Definition

This test checks the sequence of receiving an individually addressed DSC message, auto acknowledging with 'able to comply', when was received the DSC polling call.

Method of measurement and required results

Set the EUT and TE into standby. The auto acknowledging feature for polling DSC messages shall be turned on. Configure the TE with a coast station MMSI. Set frequencies EUT 4208.0 kHz TE 4219.5 kHz. From the TE send a DSC message Polling call. Verify that:

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Item **Polling automatic ack**	**Result**		**Com-ment**
	YES	**NO**	
the EUT indicates that it is transmitting the acknowledgment, [ETSI EN 300 338-2, n.6.7.3,i(2)]	**X**		
No alarm shall be sound [ETSI EN 300 338-2, n.6.7.5]		**X**	(42)
the procedure terminates after completing the transmission acknowledgement [ETSI EN 300 338-2, n.6.7.8]	**X**		
the information content received by the TE corresponds to that sent by the EUT (read from Log)	**X**		
The start of the transmission of automatic acknowledgement sequence should be **within 30 s for HF and MF** or within 3 s for VHF after the reception of the complete call sequence. [Rec. ITU-R M.541-9, Ann.2, n.2.1.1.3.2]	**X**		

(42) (E1083)(E1110)
When auto acknowledging test, polling, position request DSC call sounds alarm.
While when auto acknowledging test, polling, position request DSC call no alarm shall sound.

[ETSI EN 300 338-2, n.6.7.5]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.14. The received non distress automated procedure auto acknowledge position request tests

[ETSI EN 300 338-2 (2010-02),n.6.7.5]
[ETSI EN 300 338-2 (2010-02),n.6.7.8]
[Rec. ITU-R M.493-13, Ann.4,n.3.2.1.2.4.1]

3.2.1.2.4.1 Able to comply: This option should be provided if the frequencies and mode of subsequent communication are provided by the received DSC message and the equipment is capable of handling the requested communications**, or if the received DSC message is a polling, position request, or test** that has not been automatically acknowledged.

[Rec. ITU-R M.493-13, Ann.4,n.3.2.1.2.4.1]

When auto acknowledging position, poll, and test DSC messages, no alarm shall sound.

[ETSI EN 300 338-2,n.6.7.5]

When auto acknowledging **position**, poll, and test DSC messages, the procedure shall **self-terminate** after sending the acknowledgement.

[ETSI EN 300 338-2,n.6.7.8]

Scenario	Legend
TestV12H_0114	Is not required

TestV12H_0114: Position request call to EUT MMSI 273000000

Definition

This test checks the sequence of receiving an individually addressed DSC message, auto acknowledging with 'able to comply', when was received the DSC position request.

Method of measurement and required results

Set the EUT and TE into standby. The auto acknowledging feature for position request DSC messages shall be turned on. Configure the TE with a ship station MMSI. From the TE send a DSC message position request. Verify that:

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Item **Position request automatic ack**	**Result**		**Com-ment**
	YES	**NO**	
the EUT indicates that it is transmitting the acknowledgment, [ETSI EN 300 338-2, n.6.7.3,i(2)]	**X**		
No alarm shall be sound [ETSI EN 300 338-2, n.6.7.5]		**X**	(42)
the procedure terminates after completing the transmission acknowledgement [ETSI EN 300 338-2, n.6.7.8]	**X**		
the information content received by the TE corresponds to that sent by the EUT (read from Log)	**X**		
The start of the transmission of automatic acknowledgement sequence should be **within 30 s for HF and MF** or within 3 s for VHF after the reception of the complete call sequence. [Rec. ITU-R M.541-9, Ann.2, n.2.1.1.3.2]	**X**		

(42) (E1083)(E1110)
When auto acknowledging test, polling, position request DSC call sounds alarm.
While when auto acknowledging test, polling, position request DSC call no alarm shall sound.

[ETSI EN 300 338-2, n.6.7.5]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.15. Options of termination of the automatic procedure test

[ETSI EN 300 338-2 (2010-02), n.6.3]

The following setup options shall be available with the following factory defaults:
i) the option to set the no activity timeout of non distress DSC automated procedures to some value that includes no timeout: set to 15 min;

[ETSI EN 300 338-2, n.6.3]

Check setup options. Verify that:

Automated timeout				
Item	**Value**	**Result**		**Com-ment**
		YES	**NO**	
There are facilites of timeout	YES	**X**		
Possibility of change value of timeout	YES	**X**		
Limits of timeout	1 min – 30 min	**X**		
Default value of timeout	15 min	**X**		15 min
Facilites to set Active / No active timeout	YES	**X**		Yes
Default setting	ACTIVE	**X**		Active

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.16. Manually termination automated procedure test

[ETSI EN 300 338-2 (2010-02), n.6.7.8]
[ETSI EN 300 338-2 (2010-02), n.6.3]

When auto acknowledging position, poll and test DSC messages the procedure shall self-terminate after sending the acknowledgement.
When sending an "unable to comply" acknowledgement the procedure shall terminate after completing the transmission.
In all other cases, termination is done manually or by the automated timeout. At least ten seconds prior to automated termination, a visual and discrete aural warning shall be displayed with the option to stop the automatic termination.
If the procedure is terminated manually by the user then integrated equipment may revert to the channel or frequency that was previously selected before the DSC procedure.

[ETSI EN 300 338-2, n.6.7.8]

The following configuration options for acknowledgements and timers shall be available with the following factory defaults:
i) the option to set the no activity timeout of non distress DSC automated procedures to some value that includes no timeout: set to 15 min;

[ETSI EN 300 338-2 (2010-02), n.6.3]

a) Reset EUT into Standby. Set **NO TIMEOUT** or maximum value.
From TE serially send the calls listed in the table. After sending of a each call to send from TE in addition one or more DSC a sequence pertinent to station, but not for the currently active automated procedure. Verify that calls are received. Verify that:

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Termination prior to acknowledgement				
Starting receiving non distress automated procedure call	**There is option Termination**	**Possibly manually termination procedure**	**There is warning that terminating the procedure**	**Comments**
Individual Urgency RT call	YES	YES	YES	
Individual Safety RT call	YES	YES	YES	
Individual position request call Safety	YES	YES	YES	
Individual Safety Test call	YES	YES	YES	
Individual Routine RT	YES	YES	YES	
Individual Routine FEC call	YES	YES	YES	
Polling call	YES	YES	YES	

Item **Manually termination of automated procedure (before acknowledgement)**	**Result**		**Com-ment**
	YES	**NO**	
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.7.2,g(1),v]	**X**		
Upon selection of the option to terminate the procedure a warning is provided that one is terminating the procedure (terminate the automated procedure before the objective has been reached), [ETSI EN 300 338-2, n.6.7.9] [Rec. ITU-R M.493-13, Ann.4, n.3.4.8]	**X**		
The operator should have the option to go back to the stage of the automated procedure where the action was taken that caused the warning. [Rec. ITU-R M.493-13, Ann.4, n.3.1.6]	**X**		
If the procedure is terminated manually by the user then integrated equipment may revert to the channel or frequency that was previously selected before the DSC procedure. [ETSI EN 300 338-2, n.6.7.8]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Reset EUT into Standby. Set no timeout or maximum value.
From **TE serially send** the calls listed in the table. After sending of a each call to send from TE in addition one or more DSC a sequence pertinent to station, but not for the currently active automated procedure. Verify that calls are received. There, where it is **required send acknowledgement**. Verify that:

Termination after to acknowledgement				
Starting receiving non distress automated procedure call	**There is option Termination**	**Possibly manually termination procedure**	**There is warning that terminating the procedure**	**Comments**
Geographic area RT call Urgency	YES	YES	NO	
Geographic area RT call Safety	YES	YES	NO	
Individual Urgency RT call	YES	YES	NO	
Individual Safety RT call	YES	YES	NO	
Individual position request call Safety	YES	YES	NO	
Individual Safety Test call	YES	YES	NO	
Group call Routine RT	YES	YES	NO	
Individual Routine RT	YES	YES	NO	
Individual Routine FEC call	YES	YES	NO	(12)
Polling call	YES	YES	NO	
Unable to comply	YES	YES	NO	Shall self-terminate after manually acknowledge

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Item **Manually termination of automated procedure (after acknowledgement)**	**Result**		**Com-ment**
	YES	**NO**	
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.7.2,g(2),iii]		**X**	(12)
Upon selection of the option to terminate the procedure a warning is NOT provided that one is terminating the procedure (terminate the automated procedure before the objective has been reached), [ETSI EN 300 338-2, n.6.6.9] [Rec. ITU-R M.493-13, Ann.4, n.3.4.8]	**X**		
If the procedure is terminated manually by the user then integrated equipment may revert to the channel or frequency that was previously selected before the DSC procedure. [ETSI EN 300 338-2, n.6.7.8]	**X**		

(12) (E521)(E1039)(E1082)
For the case when equipment is engaged in the NBDP communications option “Terminate” is blocked. When choosing an operator option “Terminate” a warning appears : “Unable to comply. Please terminate telex connection”.
That is, the operator shall terminate at the Message Terminal (separate unit SAILOR 6006) the telex session communication first. Only after that may terminate the DSC procedure from the control unit SAILOR 6301.

[ETSI EN 300 338-2, n.6.4.13]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.17. Termination of automated procedure by automated timout

[ETSI EN 300 338-2 (2010-02), n.6.7.8]
[ETSI EN 300 338-2 (2010-02), n.6.3]

a) Reset EUT into Standby. Set automated termination timout.
From TE serially send the calls listed in the table.
After sending of each call to send in addition one or more DSC a sequence pertinent to station, but not for the currently active automated procedure. To be convinced, that calls are received.

Starting receiving non distress automated procedure call	Value of Timeout of automated Termination (minutes)	Warning prior automated termination				There is warning that terminating the procedure	Comment
		At least 10 seconds	visual	Discrete aural	Option to stop		
Geographic area RT call Urgency	1 min	YES	YES	YES	YES	YES	
Geographic area RT call Safety	1 min	YES	YES	YES	YES	YES	
Individual Urgency RT call	1 min	YES	YES	YES	YES	YES	
Individual Safety RT call	1 min	YES	YES	YES	YES	YES	
Individual position request call Safety	1 min	NO	NO	NO	NO	NO	Shall self-terminate after acknowledge
Individual Safety Test call	1 min	NO	NO	NO	NO	NO	Shall self-terminate after acknowledge
Group call Routine RT	1 min	YES	YES	YES	YES	YES	
Individual Routine RT	1 min	YES	YES	YES	YES	YES	
Individual Routine FEC call	1 min	YES	YES	YES	YES	YES	
Polling routine call	1 min	NO	NO	NO	NO	NO	Shall self-terminate after acknowledge
Unable to comply	1 min	NO	NO	NO	NO	NO	Shall self-terminate after acknowledge

Item **Termination of automated procedure by automated timout**	Result		Com-ment
	YES	NO	
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.7.2]	X		
At least ten seconds prior to automated termination, a visual and discrete aural warning shall be displayed with the option to stop the automatic termination. [ETSI EN 300 338-2,n.6.7.8]	X		
The operator should have the option to go back to the stage of the automated procedure where the action was taken that caused the warning. [Rec. ITU-R M.493-13, Ann.4, n.3.1.6]	X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.18. Handling received DSC messages pertinent to received non distress automated procedure test

[ETSI EN 300 338-2 (2010-02), n.6.7.4]
[ETSI EN 300 338-2 (2010-02), n.6.7.5]

DSC messages pertinent to the station but not the procedure shall be allocated to the appropriate automated procedure or initiate their own automated procedure on hold.

DSC messages that are pertinent to the procedure are repeats of the initial DSC message.
[ETSI EN 300 338-2 (2010-02), n.6.7.4]

All repeat initial DSC messages shall sound the self-terminating alarm.
[ETSI EN 300 338-2 (2010-02), n.6.7.5]

Scenario	**Legend**
TestV12H_0115	*TestH_0N0E*
TestV12H_0116	Is not required

Even minute *Initial call*
Odd minute *Repeated call*

TestV12H_0115
00:00 Geographic area RT call Urgency (2182.0 kHz)
02:00 Geographic area RT call Safety (4125.0 kHz)
04:00 Individual Urgency RT call (6215.0 kHz)
06:00 Individual Safety RT call (8291.0 kHz)
08:00 Individual position request call
10:00 Individual Safety Test call
12:00 Group call Routine RT (Group 027300000) (12 353 kHz) (12577.5/12657.0)
14:00 Individual Routine RT (12 353 kHz) (12577.5/12657.0)
16:00 Polling call

TestV12H_0116 (after acknowledgement Indivuidual calls)
00:00 Individual Urgency RT call (6215.0 kHz)
02:00 Individual Safety RT call (8291.0 kHz)
04:00 Individual position request call
06:00 Individual Safety Test call
08:00 Individual Routine RT (12 353 kHz) (12577.5/12657.0)
10:00 Polling call

a) Reset EUT into Standby. Set no timeout or maximum value.
From **TE serially send** the calls listed in the table. After sending of a each repeat initial DSC message. Verify that:

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

TestV12H_0115

Handling received DSC messages pertinent the received non distress automated procedure					
Starting receiving non distress automated procedure initial call	**Initial call**		**Repeated call**		**Comment**
	Alarm	**Elapsed time**	**Alarm**	**Elapsed time**	
Geographic area RT call Urgency	Urgency alarm	Setting	Self-terminating	Not changed	
Geographic area RT call Safety	Routine alarm	Setting	Self-terminating	Not changed	
Individual Urgency RT call	Urgency alarm	Setting	Self-terminating	Not changed	
Individual Safety RT call	Routine alarm	Setting	Self-terminating	Not changed	
Individual position request call Safety	Routine alarm	Setting	Self-terminating	Not changed	
Individual Safety Test call	Routine alarm	Setting	Self-terminating	Not changed	
Group call Routine RT	Routine alarm	Setting	Self-terminating	Not changed	
Individual Routine RT	Routine alarm	Setting	Self-terminating	Not changed	
Polling call	Routine alarm	Setting	Self-terminating	Not changed	

Repeated call features	**Result**		**Com-ment**
	YES	**NO**	
All repeat initial DSC messages shall sound the self-terminating alarm. [ETSI EN 300 338-2, n.6.7.5]	**X**		
The elapsed time since the procedure started (prior to acknowledgment); or the elapsed time since acknowledgement (after acknowledgment) is not changed; [ETSI EN 300 338-2, n.6.7.3, b, c]	**X**		

b) Reset EUT into Standby. Set no timeout or maximum value.
From **TE serially send** the calls listed in the table. From EUT send to TE acknowledgement. After sending of a each repeat initial DSC message. Verify that:

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

TestV12H_0116

Handling received DSC messages pertinent the received non distress automated procedure					
Starting receiving non distress automated procedure initial call	**Initial call**		**Repeated call**		**Comment**
	Alarm	**Elapsed time**	**Alarm**	**Elapsed time**	
Individual Urgency RT call	Urgency alarm	Setting	Self-terminating	Not changed	
Individual Safety RT call	Routine alarm	Setting	Self-terminating	Not changed	
Individual position request call Safety	Routine alarm	Setting	Self-terminating	Not changed	
Individual Safety Test call	Routine alarm	Setting	Self-terminating	Not changed	
Group call Routine RT	Routine alarm	Setting	Self-terminating	Not changed	
Individual Routine RT	Routine alarm	Setting	Self-terminating	Not changed	
Polling call	Routine alarm	Setting	Self-terminating	Not changed	

Repeated call features	**Result**		**Com-ment**
	YES	**NO**	
All repeat initial DSC messages shall sound the self-terminating alarm. [ETSI EN 300 338-2, n.6.7.5]	**X**		
The elapsed time since acknowledgement (after acknowledgment) is not changed; [ETSI EN 300 338-2, n.6.7.3, b, c]	**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.19. Handling received DSC messages pertinent to the station, but not pertinent to the automatic procedure test

[ETSI EN 300 338-2 (2010-02), n.6.7.4]

DSC messages pertinent to the station but not the procedure shall be allocated to the appropriate automated procedure or initiate their own automated procedure on hold.

DSC messages that are pertinent to the procedure are acknowledgements to the initial DSC message.

[ETSI EN 300 338-2 (2010-02), n.6.7.4]

Scenario	**Legend**
TestV12H_0117	*TestH_0N0E*
TestV12H_0118	*TestH_0N0E*

TestV12H_0117

00:00 Initiate Urgency Geographic area RT call (Self MMSI 002731234) (4125.0 kHz)
03:00 Distress call MMSI ship in distress is 273000002
06:00 Distress relay to All ships MMSI ship in distress is 273000003
09:00 Distress ACK for MMSI ship in distress is 273000004
12:00 Urgency Geographic area FEC call (8376.5 kHz)
15:00 Safety Geographic area RT call (8291 kHz)
18:00 Routine Individual RT call to EUT (12 353 kHz) (12577.5/12657.0)

TestV12H_0118

00:00 Initiate Routine Individual RT call (Self MMSI 0027311111) (4146.0 kHz) (4208.0/4219.5)
03:00 Distress call MMSI ship in distress is 273000002
06:00 Distress relay to All ships MMSI ship in distress is 273000003
09:00 Distress ACK for MMSI ship in distress is 273000004
12:00 Urgency Geographic area FEC call (8376.5 kHz)
15:00 Safety Geographic area RT call (8291 kHz)
18:00 Routine Individual RT call to EUT (12 353 kHz) (12577.5/12657.0)

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

a) Reset tht EUT into Standby. From TE send on the 4207.5 kHz Ugency call Geographic area RT 4125.0 kHz. Verify that the automated procedure is initiated.

00:00 TestV12H_0117

Item (Initiate Urgency Geographic area call)	**Result**		**Com-ment**
	YES	**NO**	
The fact one is engaged in receiving a non distress is displayed; [ETSI EN 300 338-2,n.6.6.3]	**X**		
The elapsed time since the procedure started is displayed, [ETSI EN 300 338-2, n.6.6.3]	**X**		
Active state of procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	**X**		
The operator is informed that the procedure is **"acknowledged"**, [ETSI EN 300 338-2, n.6.6.3]	**X**		
The tuning to the subsequent communication frequencies 4125.0 kHz shall occur automatically. [ETSI EN 300 338-2, n.6.6.6]	**X**		
You can speak to the EUT from the TE on 4125.0 kHz, [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT on 4125.0 kHz, [ETSI EN 300 338-2, n.6.5.6]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Send on the 2187.5 kHz from TE Distress call. Verify that:

TestV12H_0117.scn
03:00

Distress call			
Item	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the two tone alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	**X**		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	**X**		
The type (alert, relay, alert acknowledgement, relay acknowledgement), sender, and intended destination (individual, area, all ships) of the latest received DSC message is displayed; [ETSI EN 300 338-2, n.6.5.3,f]	**X**		
The history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	**X**		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	**X**		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to send a distress alert acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	**X**		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
You can speak to the EUT from the TE (4125.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (4125.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		

Select new on hold procedure and select option ‘terminate’.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

c) Send on the 8414.5 kHz from TE Distress relay to All ships. Verify that:

TestV12H_0117.scn
06:00

Item **Distress relay to All ships**	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the two tone alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	**X**		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	**X**		
The type (alert, relay, alert acknowledgement, relay acknowledgement), sender, and intended destination (individual, area, all ships) of the latest received DSC message is displayed; [ETSI EN 300 338-2, n.6.5.3,f]	**X**		
The history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	**X**		
The operator is informed that the procedure is waiting for an acknowledgement, [ETSI EN 300 338-2, n.6.5.3,l(3)]	**X**		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to send a distress alert acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2)]	**X**		
The option to send a distress relay acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
You can speak to the EUT from the TE (4215.5 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (4215.5 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		

Select new on hold procedure and select option ‘terminate’.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

d) Send on the 6312.0 kHz from TE distress ACK. Verify that:

TestV12H_0117.scn
09:00

Item Distress ACK	Result		Com-ment
	YES	NO	
The EUT sounds the distress ack alarm, [ETSI EN 300 338-2, n.6.5.5]	X		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	X		
the alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	X		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	X		
the latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
the type (alert, relay, alert acknowledgement, relay acknowledgement), sender, and intended destination (individual, area, all ships) of the latest received DSC message is displayed; [ETSI EN 300 338-2, n.6.5.3,f]	X		
the history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	X		
the operator is informed that the procedure is acknowledged, [ETSI EN 300 338-2, n.6.5.3,l(5)]	X		
the option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
the option to send a distress alert acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2)]	X		
the option to send a distress relay acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2]	X		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
the elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (4125 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (4125 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		

Select new on hold procedure and select option ‘terminate’.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

e) Send on the 8414.5 kHz from TE DSC urgency Geographic area FEC call (8376.5 kHz). Verify that:

TestV12H_0117.scn
12:00

Item **Urgency Geographic area call**	**Result**		**Com-ment**
	YES	**NO**	
the EUT sounds the urgency alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
the reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
the alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	**X**		
the information content of the received DSC message is displayed and correct, [ETSI EN 300 338-2,n.6.7.3,f]	**X**		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
the elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
You can speak to the EUT from the TE (4125.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (4125.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		

Select new on hold procedure and select option ‘terminate’.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

f) Send on the 8414.5 kHz from TE DSC safety Geographic area RT 8291.0 kHz. Verify that:

TestV12H_0117.scn
15:00

Item **Safety Geographic area call**	**Result**		**Com-ment**
	YES	**NO**	
the EUT sounds the Routine alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
the reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	**X**		
the information content of the received DSC message is displayed and correct, [ETSI EN 300 338-2,n.6.7.3,f]	**X**		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
the elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
You can speak to the EUT from the TE (4125.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (4125.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		

Select new on hold procedure and select option ‘terminate’.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

g) Send on the non distress channel 12657.0 kHz from TE DSC Routine Individual call RT 12353.0 kHz to EUT. Verify that:
(EUT will NOT receive call if NO implement DSC routine watch)

TestV12H_0117.scn
18:00

Item Routine Individual call	Result		Com-ment
	YES	NO	
the EUT sounds the Routine alarm, [ETSI EN 300 338-2, n.6.5.5]	n.a	n.a	NOTE 1
the reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]			
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]			
the information content of the received DSC message is displayed and correct, [ETSI EN 300 338-2,n.6.7.3,f]			
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]			
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]			
the elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]			
the option to send a Individual acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]			
You can speak to the EUT from the TE (4125.0 kHz), [ETSI EN 300 338-2, n.6.5.6]			
You can speak to the TE from the EUT (4125.0 kHz), [ETSI EN 300 338-2, n.6.5.6]			

NOTE 1
NO implement DSC routine watch

Select new on hold procedure and select option ‘terminate’.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

h) Reset tht EUT into Standby. Set EUT to 4208.0kHz/4219.5 kHz frequencies for DSC watch. From TE send Routine Individual call RT 4146.0 kHz. Verify that the automated procedure is initiated.

00:00 TestV12H_0118

Item (Initiate Routine Individual call RT)	**Result**		**Com-ment**
	YES	**NO**	
EUT sounds the routine alarm, [ETSI EN 300 338-2,n.6.7.5]	**X**		
the reason for and means to silence the alarm is displayed on the EUT, [ETSI EN 300 338-2,n.6.7.5]	**X**		
the fact one is engaged in receiving a non distress is displayed; [ETSI EN 300 338-2,n.6.7.3,a]	**X**		
the time since receiving the DSC call is displayed, [ETSI EN 300 338-2, n.6.7.3,b]	**X**		
Active state of procedure is displayed, [ETSI EN 300 338-2, n.6.7.3,d]	**X**		
The information content of the received DSC message is displayed or available on the EUT, [ETSI EN 300 338-2, n.6.7.3,f]	**X**		
the information content displayed on the TE corresponds to that displayed on the EUT	**X**		
the option to send able to comply" acknowledgement is available, [ETSI EN 300 338-2, n.6.7.2,g(1),i]	**X**		
The acknowledgement shall only be transmitted manually [ETSI EN 300 338-2, n.6.7.7]	**X**		
The operator shall not be required to compose any elements of this acknowledgement [ETSI EN 300 338-2, n.6.7.7]	**X**		
The "able to comply" option shall only require a single action by the operator to respond (e.g. lifting the handset). [ETSI EN 300 338-2, n.6.7.7]	**X**		
EUT should **not** changed channel (to 4146.0 kHz) [ETSI EN 300 338-2, n.6.7.6]	**X**		
the 'able to comply with mode/frequency change' acknowledgment option is available, [ETSI EN 300 338-2, n.6.7.2,g(1),ii]	**X**		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.7.2,g(1),iv]	**X**		
the 'unable to comply' acknowledgment option is available, [ETSI EN 300 338-2, n.6.7.2,g(1),iii]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.7.2,g(1),v]	**X**		
the EUT states that it is waiting for the operator to respond/select an acknowledgment, [ETSI EN 300 338-2, n.6.7.3,i]	**X**		
the time since receiving initial DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.7.3]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

i) Send on the 2187.5 kHz from TE Distress call. Verify that:

TestV12H_0118.scn
03:00

Distress call			
Item	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the two tone alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	**X**		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	**X**		
The type (alert, relay, alert acknowledgement, relay acknowledgement), sender, and intended destination (individual, area, all ships) of the latest received DSC message is displayed; [ETSI EN 300 338-2, n.6.5.3,f]	**X**		
The history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	**X**		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	**X**		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to send a distress alert acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	**X**		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
EUT shall not change the frequency. [ETSI EN 300 338-2, n.6.9.2]	**X**		

Select new on hold procedure and select option ‘terminate’.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

j) Send on the 8414.5 kHz from TE Distress relay to All ships. Verify that:

TestV12H_0118.scn
06:00

Item **Distress relay to All ships**	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the two tone alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	**X**		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	**X**		
The type (alert, relay, alert acknowledgement, relay acknowledgement), sender, and intended destination (individual, area, all ships) of the latest received DSC message is displayed; [ETSI EN 300 338-2, n.6.5.3,f]	**X**		
The history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	**X**		
The operator is informed that the procedure is waiting for an acknowledgement, [ETSI EN 300 338-2, n.6.5.3,l(3)]	**X**		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to send a distress alert acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2)]	**X**		
The option to send a distress relay acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
EUT shall not change the frequency. [ETSI EN 300 338-2, n.6.9.2]	**X**		

Select new on hold procedure and select option ‘terminate’.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

k) Send on the 6312.0 kHz from TE distress ACK. Verify that:

TestV12H_0118.scn
09:00

Item **Distress ACK**	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the distress ack alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
the alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	**X**		
the latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	**X**		
the type (alert, relay, alert acknowledgement, relay acknowledgement), sender, and intended destination (individual, area, all ships) of the latest received DSC message is displayed; [ETSI EN 300 338-2, n.6.5.3,f]	**X**		
the history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	**X**		
the operator is informed that the procedure is acknowledged, [ETSI EN 300 338-2, n.6.5.3,l(5)]	**X**		
the option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
the option to send a distress alert acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2)]	**X**		
the option to send a distress relay acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
the elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
EUT shall not change the frequency. [ETSI EN 300 338-2, n.6.9.2]	**X**		

Select new on hold procedure and select option ‘terminate’.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

l) Send on the 8414.5 kHz from TE DSC urgency Geographic area FEC call (8376.5 kHz). Verify that:

TestV12H_0118.scn
12:00

Item **Urgency Geographic area call**	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the urgency alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
the reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
the alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	**X**		
the information content of the received DSC message is displayed and correct, [ETSI EN 300 338-2,n.6.7.3,f]	**X**		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
the elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
EUT shall not change the frequency. [ETSI EN 300 338-2, n.6.9.2]	**X**		

Select new on hold procedure and select option ‘terminate’.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

m) Send on the 8414.5 kHz from TE DSC safety Geographic area RT 8291.0 kHz. Verify that:

TestV12H_0118.scn
15:00

Item **Safety Geographic area call**	**Result**		**Com-ment**
	YES	**NO**	
the EUT sounds the Routine alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
the reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	**X**		
the information content of the received DSC message is displayed and correct, [ETSI EN 300 338-2,n.6.7.3,f]	**X**		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
the elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
EUT shall not change the frequency. [ETSI EN 300 338-2, n.6.9.2]	**X**		

Select new on hold procedure and select option ‘terminate’.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

n) Send on the non distress channel 12657.0 kHz from TE DSC Routine Individual call RT 12353.0 kHz to EUT. Verify that:
(EUT will NOT receive call if NO implement DSC routine watch)

TestV12H_0118.scn
18:00

Item **Routine Individual call**	**Result**		**Com-ment**
	YES	**NO**	
the EUT sounds the Routine alarm, [ETSI EN 300 338-2, n.6.5.5]	n.a	n.a	NOTE 1
the reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]			
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]			
the information content of the received DSC message is displayed and correct, [ETSI EN 300 338-2,n.6.7.3,f]			
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]			
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]			
the elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]			
the option to send a Individual acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]			
EUT shall not change the frequency. [ETSI EN 300 338-2, n.6.9.2]			

NOTE 1
NO implement DSC routine watch

Select new on hold procedure and select option ‘terminate’.

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.20. Facilities for decoding of non distress DSC calls test

[Rec. ITU-R M.493-13, Annex 1, Tables 4.1 – 4.9]

The equipment software should allow the operator to only compose the types of DSC messages which are specified in Tables 4.1-4.10.2. These tables indicate which DSC messages are applicable for each class of DSC equipment.

[Rec. ITU-R M.493-13, Annex 3, n.1]

DSC calls and acknowledgements	Tx	Rx	Comments
Distress alert RT	X	X	
Distress alert FEC	X	X	
Distress acknowledgement RT	X	X	(Tx MF only)
Distress acknowledgement FEC	X	X	(Tx MF only)
Distress Alert Cancel	X	X	
Distress relay RT Individual	X	X	
Distress relay FEC Individual	X	X	
Distress relay RT Geographic area	X	X	
Distress relay FEC Geographic area	X	X	
Distress relay RT All ships		X	
Distress relay FEC All ships		X	
Distress relay ACK RT Individual	X	X	
Distress relay ACK FEC Individual	X	X	
Distress relay ACK RT All ships	X	X	
Distress relay ACK FEC All ships	X	X	
Geographic area RT call Urgency	X	X	
Geographic area FEC call Urgency	X	X	
Geographic area RT call Safety	X	X	
Geographic area FEC call Safety	X	X	
Geographic area Medical transports RT call Urgency	X	X	
Geographic area Medical transports FEC call Urgency	X	X	
Geographic area Ships and aicraft (Res. 18) RT call Urgency	X	X	
Geographic area Ships and aicraft (Res. 18) FEC call Urgency	X	X	

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Item	Tx	Rx	Comments
Individual RT call Urgency	X	X	
Individual RT with pos number call Urgency	X		
Individual FEC call Urgency	X	X	
Individual FEC with pos number call Urgency	X		
Individual ARQ call Urgency	X	X	
Individual ARQ with pos number call Urgency	X		
Individual RT call Safety	X	X	
Individual RT with pos number call Safety	X		
Individual FEC call Safety	X	X	
Individual FEC with pos number call Safety	X		
Individual ARQ call Safety	X	X	
Individual ARQ with pos number call Safety	X		
Individual RT call acknowledgement Urgency	X	X	
Individual FEC call acknowledgement Urgency	X	X	
Individual ARQ call acknowledgement Urgency	X	X	
Individual RT call acknowledgement Safety	X	X	
Individual FEC call acknowledgement Safety	X	X	
Individual ARQ call acknowledgement Safety	X	X	
Individual Unable to comply acknowledgement Urgency	X	X	
Individual Unable to comply acknowledgement Safety	X	X	
Individual position request call Safety	X	X	
Individual position acknowledgement Safety	X	X	
Individual test call	X	X	
Individual test call acknowledgement	X	X	

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Item	Tx	Rx	Comments
Routine group call RT	X	X	
Routine group call FEC	X	X	
Routine individual RT call	X	X	
Routine individual RT with pos number call	X		
Routine individual FEC call	X	X	
Routine individual FEC with pos number call	X		
Routine individual ARQ call	X	X	
Routine individual ARQ with pos number call	X		
Routine individual DATA call	X	X	2nd telecommand 126 only
Routine individual DATA with pos number call		**X**	
Routine individual RT call acknowledgement	X	X	
Routine individual FEC call acknowledgement	X	X	
Routine individual ARQ call acknowledgement	X	X	
Routine individual DATA call acknowledgement	X		Unable to comply
Individual Unable to comply acknowledgement Routine		X	
Individual Routine polling call		X	
Individual Routine polling acknowledgement	X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.21. Decoding frequency information in DSC messages

[ETSI EN 300 338-1 (2010-02), n.12.1]

For MF/HF both the Rx and Tx frequencies will be transmitted especially as there are occasions where split channel operation may be used.

If only 1 data field is received then the DSC decoder will assume that this is the ship Rx frequency of a standard ITU channel pair.

For VHF operation only **1 data field is required to be transmitted**. The first frequency element will contain the information. If both data fields are received in a message then the radio will **ignore the second one**.

Unused frequency elements shall be filled with "no information" (126).

[ETSI EN 300 338-1 (2010-02), n.12.1]

8.3.2.1 Frequency information

The frequency (in the F1B/J2B mode the assigned frequency should be used) in multiples of 100 Hz may only be indicated as such when the frequency is below 30 MHz. The three characters provide for the required six decimal digits. Character 1 represents the units (U) and tens (T) of 100 Hz, character 2 the hundreds (H) and thousands (M) and character 3 the tens of thousands (TM) and hundreds of thousands (HM) of 100 Hz. For MF/HF DSC, use frequency selection mode, vice channel selection mode, to ensure international interoperability.

8.3.2.2 Channel information

8.3.2.2.1 HF and MF channels

If the HM digit is 3, this indicates that the number represented by the digits TM, M, H, T and U is the HF/MF working channel number (either single frequency or two frequency channels). This mode should only be used for decoding received calls, to ensure interoperability with older equipment.

[Rec. ITU-R M.493-13, Ann.1, 8.3.2.2.1]

Scenario	Legend
	Is not required

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

Reset EUT into Standby. Send from TE DSC calls. Verify that:

Subject	Frequency/Channel element		Result		Comment
	First	Second	YES	NO	
Individual Routine RT calls	**4146.0**	**4146.0**	**X**		EUT shall set simplex channel 4146.0 kHz
	6501.0	**6200.0**	**X**		EUT shall set duplex CH 601 Coast: 6501.0/Ship: 6200.0
	4358.0	**4358.0**	**X**		Non ITU channel
	4146.0	**No**	**X**		
	No	**4146.0**	**X**		
	1234.5	**0123.0**	**X**		Wrong frequency
	CH: 00402	**No inf**		**X**	MF/HF duplex channel (43)
	CH: 00428	**No inf**		**X**	MF/HF duplex channel (43)
Individual Routine/Safety ARQ calls	**4210.5**	**4272.5**	**X**		EUT set ARQ duplex channel
	4202.5	**4202.5**	**X**		EUT set ARQ simplex channel
	4177.5	**4177.5**	**X**		EUT set 4 MHz Distress channel
Individual Routine/Safety FEC calls	**4210.5**		**X**		
	4202.5		**X**		
	4177.5		**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

(43) (E1087)(E644)

Equipment does not support the proper handling of received DSC calls with frequency elements – MF/HF channels:

a) not available option of acknowledge “able to comply”;

b) the MF/HF channel decoding and display an error - as frequency element;

c) upon reception of the call is automaticaly sent acknowledgement “unable to comply” (if option auto acknowledgement set ON).

While this mode should be used for decoding received calls, to ensure interoperability with older equipment.

[ETSI EN 300 338-1 (2010-02), n.12.1]
[Rec. ITU-R M.493-13, Ann.1, 8.3.2.2.1]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.22. Verification of decoding of DSC call sequences "All ships call"

[ITU-R M.493-13, Annex 1, Table 4.5]

Method of testing.

The EUT and TE are connected. The TE encodes and sequentially transmits to the EUT the "All ships calls"

The EUT receives, decodes and prints DSC calls. When decoder measurements use a printer or computer, agreement of printer output and display indication is checked.

Result required.

Transmitted and received sequences are compared in content. The EUT should correctly receive and decode the sequences transmitted by the TE.

Scenario	**Legend**
TestH_1-11-1	Is not required

Results

TestH_1-11-1

N	Item	Reception		Result		Comment
		YES	NO	YES	NO	
1	Urgency call to all ships (J3E TP)		X	X		Should be rejected
2	Urgency call to all ships (F1B/J2B TTY FEC)		X	X		Should be rejected
3	Urgency call to all ships (Medical transports)		X	X		Should be rejected
4	Urgency call to all ships (Ships and aircraft (Res. 18))		X	X		Should be rejected
5	Safety call to all ships (J3E TP)		X	X		Should be rejected
6	Safety call to all ships (F1B/J2B TTY FEC)		X	X		Should be rejected
7	Safety call to all ships (Medical transports)		X	X		Should be rejected
8	Safety call to all ships (Ships and aircraft (Res. 18))		X	X		Should be rejected

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.23. Verification of decoding of Urgency and Safety Geographic area calls

[ITU-R M.493-13, Annex 1, Table 4.6]

Method of testing.

The EUT and TE are connected. The TE is set to generate, encode and transmit the DSC Urgency and safety calls to Geographic area.

The EUT receives, decodes and prints DSC calls. Generation is analyzed for correctness, with transmitted and received sequences checked.

Result required.

The EUT should be rejected Geographic area sequences transmitted by the TE.

Scenario	Legend
TestH_1-13-1	*TestH_1_13_1*
TestH_1-13-2	*TestH_1_13_2*

Results

Scenario*: TestH_1-13-2* Legend*: TestH_1_13_2*

Position of EUT is Latitude**: 00°00' 0000N** Longitude: **000°00' 0000E**

N	Item	Reception		Result		Comment
		YES	NO	YES	NO	
1	Geographic area Urgency call (J3E TP)	X		X		
2	Geographic area Urgency call (F1B/J2B TTY FEC)	X		X		
3	Geographic area Safety call (J3E TP)	X		X		
4	Geographic area Safety call (F1B/J2B TTY FEC)	X		X		
5	Geographic area Urgency call (Medical transports) (J3E TP)	X		X		
6	Geographic area Urgency call (Ships and aircraft (Res.18)) (J3E TP)	X		X		
7	Geographic area Urgency call (Medical transports) (F1B/J2B TTY FEC)	X		X		
8	Geographic area Urgency call (Ships and aircraft (Res.18)) (F1B/J2B TTY FEC)	X		X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Scenario*: TestH_1-13-1* Legend*: TestH_1_13_1*

N	Item	Reception		Condition	Comment
		OK	NO		
1	Geographic area Urgency call (J3E TP)	X		**EUT**: 00 00N 000 00E **TE**: 01N 003W Δφ=03 Δλ=05	
2	Geographic area Urgency call (F1B/J2B TTY FEC)	X		**EUT**: 12 25N 123 12E **TE**: 13N 110E Δφ=01 Δλ=20	
3	Geographic area Safety call (J3E TP)	X		**EUT**: 12 25N 123 12W **TE**: 15N 130W Δφ=11 Δλ=20	
4	Geographic area Safety call (F1B/J2B TTY FEC)	X		**EUT**: 12 25S 123 12E **TE**: 10S 110E Δφ=11 Δλ=20	
5	Geographic area Urgency call (Medical transports) (J3E TP)	X		**EUT**: 12 25S 123 12W **TE**: 10S 130W Δφ=11 Δλ=20	
6	Geographic area Urgency call (Ships and aircraft (Res.18)) (J3E TP)	X		**EUT**: 05 25S 003 12E **TE**: 01N 013W Δφ=08 Δλ=20	
7	Geographic area Urgency call (Medical transports) (F1B/J2B TTY FEC)	X		**EUT**: 05 25S 003 12E **TE**: 01N 001E Δφ=08 Δλ=20	
8	Geographic area Urgency call (Ships and aircraft (Res.18)) (F1B/J2B TTY FEC)	X		**EUT**: 05 25S 179 00E **TE**: 01N 175W Δφ=08 Δλ=20	
9	Geographic area Urgency call (J3E TP)		X	**EUT**: 00 00N 000 00E **TE**: 10N 003W Δφ=03 Δλ=05	Should **NOT** be received
10	Geographic area Urgency call (J3E TP)		X	**EUT**: 00 00N 000 00E **TE**: 01N 030W Δφ=03 Δλ=05	Should **NOT** be received
11	Geographic area Urgency call (J3E TP)		X	**EUT**: 00 00N 000 00E **TE**: 01S 003W Δφ=03 Δλ=05	Should **NOT** be received
12	Geographic area Urgency call (J3E TP)		X	**EUT**: 00 00N 000 00E **TE**: 01N 003E Δφ=03 Δλ=05	Should **NOT** be received

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.24. Verification of decoding of DSC Urgency and safety calls, to individual station

[ITU-R M.493-13, Annex 1, Table 4.7]

Method of testing.

The EUT and TE are connected. The TE encodes and sequentially transmits to the EUT the following DSC calls:

a) Urgency call to individual station:

1) with address matching EUT identity (MMSI of EUT);
2) with address inconsistent with EUT identity;

b) Safety call to individual station:

1) with address matching EUT identity (MMSI of EUT);
2) with address inconsistent with EUT identity;

c) Selective call to individual station with message 2:

1) frequency information;
2) channel information;
3) ship's position information.

The EUT receives, decodes and prints DSC calls. When decoder measurements use a printer or computer, agreement of printer output and display indication is checked.

Result required.

Transmitted and received sequences are compared in content. The EUT should correctly receive and decode the sequences transmitted by the TE. The EUT should not display or print out information contained in calls a.2) b.2) c.1) c.3).

Scenario	Legend
TestH_1-16-1	Is not required
TestH_1-16-2	Is not required
TestH_1-16-3	Is not required

MMSI of EUT is **273000000**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

TestH_1-16-1

N	Subject	Reception		Results		Com-ment
		YES	NO	YES	NO	
1	Urgency call to individual station Msg2: Frequency (J3E TP)	X		X		
2	Safety call to individual station Msg2: Frequency (J3E TP)	X		X		
3	Urgency call to individual station Msg2: Position information (J3E TP)		X	X		Should be rejected
4	Safety call to individual station Msg2: Position information (J3E TP)		X	X		Should be rejected
5	Urgency call to individual station Msg2: Frequency (F1B/J2B TTY FEC)	X		X		
6	Safety call to individual station Msg2: Frequency (F1B/J2B TTY FEC)	X		X		
7	Urgency call to individual station Msg2: Frequency (F1B/J2B TTY ARQ)	X		X		
8	Safety call to individual station Msg2: Frequency (F1B/J2B TTY ARQ)	X		X		
9	Urgency call to individual station Msg2: Position information (F1B/J2B TTY FEC)		X	X		Should be rejected
10	Safety call to individual station Msg2: Position information (F1B/J2B TTY FEC)		X	X		Should be rejected
11	Urgency call to individual station Msg2: Position information (F1B/J2B TTY ARQ)		X	X		Should be rejected
12	Safety call to individual station Msg2: Position information (F1B/J2B TTY ARQ)		X	X		Should be rejected
13	Urgency call to individual station Msg2: MF/HF channel information	X			X	(43)
14	Safety call to individual station Msg2: MF/HF channel information	X			X	(43)

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

TestH_1-16-2

N	Subject	Reception		Results		Com-ment
		YES	NO	YES	NO	
1	Urgency call to individual station Position request		X	X		Should be rejected
2	Safety call to individual station Position request	X		X		
3	Urgency call to individual station Test call		X	X		Should be rejected
4	Safety call to individual station Position request	X		X		

TestH_1-16-3

N	Subject	Reception		Results		Com-ment
		YES	NO	YES	NO	
1	Urgency call to individual station Msg2: Frequency (J3E TP) Address is not EUT		X	X		Should be rejected
2	Safety call to individual station Msg2: Frequency (J3E TP) Address is not EUT		X	X		Should be rejected

(43) (E1087)(E644)

Equipment does not support the proper handling of received DSC calls with frequency elements – MF/HF channels:

a) not available option of acknowledge “able to comply”;

b) the MF/HF channel decoding and display an error - as frequency element;

c) upon reception of the call is automaticaly sent acknowledgement “unable to comply” (if option auto acknowledgement set ON).

While this mode should be used for decoding received calls, to ensure interoperability with older equipment.

[ETSI EN 300 338-1 (2010-02), n.12.1]
[Rec. ITU-R M.493-13, Ann.1, 8.3.2.2.1]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.25. Verification of decoding of Routine call to a group of stations

[ITU-R M.493-13, Annex 1, Table 4.8]

Method of testing.

The EUT and TE are connected. The EUT is set to receive DSC calls. The TE generates, encodes and transmits to the EUT a Routine call to a group of stations.

Generation by the TE and transmission to the EUT of Routine call to a group of stations is verified. The EUT receives, decodes and prints DSC calls. When decoder measurements use a printer or computer, agreement of printer output and display indication should be checked.

Result required.

Transmitted and received sequences are compared in content. The EUT should receive and decode the sequences transmitted by the TE correctly.

Scenario	**Legend**
TestH_1-19-1	Is not required

The Group MMSI of EUT is **027300000**

Results

N	Subject	Reception		Results		Comment
		YES	NO	YES	NO	
1	Routine call to group of station J3E TP Msg2: Frequency	X		X		
2	Routine call to group of station F1B/J2B TTY FEC Msg2: Frequency	X		X		
3	Routine call to group of station J3E TP Msg2: Position		X	X		Should not be possible
4	Routine call to group of station F1B/J2B TTY FEC Msg2: Position		X	X		Should not be possible
5	Routine call to group of station F1B/J2B TTY ARQ Msg2: Frequency		X	X		Should not be possible

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.26. Verification of decoding of Routine call to individual station

[ITU-R M.493-13, Annex 1, Table 4.9]

Method of testing.

The EUT and TE are connected. The EUT is set to receive DSC calls. The TE generates, encodes and transmits to the EUT a Routine call to individual station.

Generation by the TE and transmission to the EUT of Routine call to individual station is verified. The EUT receives, decodes and prints DSC calls. When decoder measurements use a printer or computer, agreement of printer output and display indication should be checked.

Result required.

Transmitted and received sequences are compared in content. The EUT should receive and decode the sequences transmitted by the TE correctly.

Scenario	Legend
TestH_1-21-1	Is not required
TestH_1-21-2	Is not required

MMSI of EUT is **273000000**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Results

TestH_1-21-1

N	Subject	Reception		Results		Com-ment
		YES	NO	YES	NO	
1	Routine call to individual station Msg2: Frequency (J3E TP)	X		X		
2	Routine call to individual station Msg2: Position information (J3E TP)		X	X		Should not be possible
3	Routine call to individual station Msg2: MF/HF channel (J3E TP)	X			X	(43)
4	Routine call to individual station Msg2: Frequency (F1B/J2B TTY FEC)	X		X		
5	Routine call to individual station Msg2: Position information (F1B/J2B TTY FEC)		X	X		Should not be possible
6	Routine call to individual station Msg2: MF/HF channel (F1B/J2B TTY FEC)	X		X		(43)
7	Routine call to individual station Msg2: Frequency (F1B/J2B TTY ARQ)	X		X		
8	Routine call to individual station Msg2: Position information (F1B/J2B TTY ARQ)		X	X		Should not be possible
9	Routine call to individual station Msg2: MF/HF channel (F1B/J2B TTY ARQ)	X			X	
10	Routine call to individual station Msg2: Frequency (Data)	X		X		
11	Routine call to individual station Msg2: Position information (Data)		X	X		
12	Routine call to individual station Msg2: MF/HF channel (Data)	X		X		NOTE 1

NOTE 1
The option to send acknowledgement “unable to comply” is available.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

TestH_1-21-2

N	Subject	Reception		Results		Com-ment
		YES	NO	YES	NO	
1	Routine call to individual station Position request		X	X		Should not be possible
2	Routine call to individual station Test call		X	X		Should not be possible
3	Routine call to individual station Polling	X		X		

(43) (E1087)(E644)
Equipment does not support the proper handling of received DSC calls with frequency elements – MF/HF channels:
a) not available option of acknowledge “able to comply”;
b) the MF/HF channel decoding and display an error - as frequency element;
c) upon reception of the call is automaticaly sent acknowledgement “unable to comply” (if option auto acknowledgement set ON).
While this mode should be used for decoding received calls, to ensure interoperability with older equipment.

[ETSI EN 300 338-1 (2010-02), n.12.1]
[Rec. ITU-R M.493-13, Ann.1, 8.3.2.2.1]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.27. Verification of correct generation, encoding and transmission of Urgency and Safety calls to individual station acknowledgement

[ITU-R M.493-13, Annex 1, Table 4.7]

Method of testing.

The EUT and TE are connected. The EUT is set to generate, encode and transmit the DSC Urgency and safety calls, to individual station.

The TE receives, decodes and prints DSC calls. Generation is analyzed for correctness, with transmitted and received sequences checked.

Result required.

The EUT should correctly transmit the DSC Urgency and safety calls to individual station.

Scenario	Legend
TestH_1-15-1	Is not required
TestH_1-15-2	Is not required
TestH_1-15-3	Is not required

MMSI of EUT is **273000000**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

TestH_1-15-1

N	Subject	Sending		Result		Com-ment
		YES	NO	YES	NO	
1	Urgency call to individual station acknowledgement Msg2: Frequency (J3E TP)	X		X		
2	Safety call to individual station acknowledgement Msg2: Frequency (J3E TP)	X		X		
3	Urgency call to individual station acknowledgement Msg2: Position information (J3E TP)		X	X		Should not be possible
4	Safety call to individual station acknowledgement Msg2: Position information (J3E TP)		X	X		Should not be possible
5	Urgency call to individual station acknowledgement Msg2: Frequency (F1B/J2B TTY FEC)	X		X		
6	Safety call to individual station acknowledgement Msg2: Frequency (F1B/J2B TTY FEC)	X		X		
7	Urgency call to individual station acknowledgement Msg2: Frequency (F1B/J2B TTY ARQ)	X		X		
8	Safety call to individual station acknowledgement Msg2: Frequency (F1B/J2B TTY ARQ)	X		X		
9	Urgency call to individual station acknowledgement Msg2: Position information (F1B/J2B TTY FEC)		X	X		Should not be possible
10	Safety call to individual station acknowledgement Msg2: Position information (F1B/J2B TTY FEC)		X	X		Should not be possible
11	Urgency call to individual station acknowledgement Msg2: Position information (F1B/J2B TTY ARQ)		X	X		Should not be possible
12	Safety call to individual station acknowledgement Msg2: Position information (F1B/J2B TTY ARQ)		X	X		Should not be possible

TestH_1-15-2

N	Subject	Sending		Results		Comment
		YES	NO	YES	NO	
1	Urgency call to individual station Position acknowledgement		X	X		Should not be possible
2	Safety call to individual station Position acknowledgement	X		X		
3	Urgency call to individual station Test call acknowledgement		X	X		Should not be possible
4	Safety call to individual station Test call acknowledgement	X		X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

TestH_1-15-3

N	Subject	Sending		Results		Comment
		YES	NO	YES	NO	
1	Safety call to individual station Unable to comply (No reason given)	X		X		
2	Safety call to individual station Unable to comply (Congestion at maritime switching centre)		X	X		See ETSI EN 300 338-2, n.6.7.7
3	Safety call to individual station Unable to comply (Busy)	X		X		
4	Safety call to individual station Unable to comply (Queue indication)	X		X		
5	Safety call to individual station Unable to comply (Station barred)	X		X		
6	Safety call to individual station Unable to comply (No operator available)	X		X		
7	Safety call to individual station Unable to comply (Operator temporarily unavailable)	X		X		
8	Safety call to individual station Unable to comply (Equipment disabled)	X		X		
9	Safety call to individual station Unable to comply (Unable to use proposed channel)	X		X		
10	Safety call to individual station Unable to comply (Unable to use proposed mode)	X		X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

TestH_1-15-3

N	Subject	Sending		Results		Comment
		YES	NO	YES	NO	
1	Urgency call to individual station Unable to comply (No reason given)	X		X		
2	Urgency call to individual station Unable to comply (Congestion at maritime switching centre)		X	X		See ETSI EN 300 338-2, n.6.7.7
3	Urgency call to individual station Unable to comply (Busy)	X		X		
4	Urgency call to individual station Unable to comply (Queue indication)	X		X		
5	Urgency call to individual station Unable to comply (Station barred)	X		X		
6	Urgency call to individual station Unable to comply (No operator available)	X		X		
7	Urgency call to individual station Unable to comply (Operator temporarily unavailable)	X		X		
8	Urgency call to individual station Unable to comply (Equipment disabled)	X		X		
9	Urgency call to individual station Unable to comply (Unable to use proposed channel)	X		X		
10	Urgency call to individual station Unable to comply (Unable to use proposed mode)	X		X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

8.28. Verification of correct generation, encoding and transmission Routine acknowledgement calls to individual station

[ITU-R M.493-13, Annex 1, Table 4.9]

Method of testing.

The EUT and TE are connected. The TE encodes and sequentially transmits to the EUT the following DSC calls:

a) Routine call to individual station (J3E TP);
b) Routine call to individual station (FEC / ARQ);
c) Routine call to individual station (Data);
d) Routine call to individual station with message 2:
frequency information;
MF/HF channel information;
ship's position information.

RQ is the end of communication character.

The EUT receives and decodes the calls. With automated mode provided, the EUT transmits call acknowledgements with the end of sequence character BQ. The ability to key-in an acknowledgement sequence in response to a call sequence received from the TE is checked. The EUT will be tested for generation of "able to comply" or "unable to comply" call acknowledgements, with 2nd telecommand 100 to 109.

Result required.

The EUT should generate and transmit call acknowledgement sequences correctly and within the specified time. Information on format specifier and category should be identical to that in the call sequence received.

Scenario	Legend
TestH_1-22-1	Is not required
TestH_1-22-2	Is not required

MMSI of EUT is **273000000**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

TestH_1-22-1

N	Subject	Sending		Results		Com-ment
		YES	NO	YES	NO	
1	Routine call to individual station acknowledgement Msg2: Frequency (J3E TP)	X		X		
2	Routine call to individual station acknowledgement Msg2: Position information (J3E TP)		X	X		Should not be possible
3	Routine call to individual station acknowledgement Msg2: MF/HF channel (J3E TP)	X		X		
4	Routine call to individual station acknowledgement Msg2: Frequency (F1B/J2B TTY FEC)	X		X		
5	Routine call to individual station acknowledgement Msg2: Position information (F1B/J2B TTY FEC)		X	X		Should not be possible
6	Routine call to individual station acknowledgement Msg2: MF/HF channel (F1B/J2B TTY FEC)	X		X		
7	Routine call to individual station acknowledgement Msg2: Frequency (F1B/J2B TTY ARQ)	X		X		
8	Routine call to individual station acknowledgement Msg2: Position information (F1B/J2B TTY ARQ)		X	X		Should not be possible
9	Routine call to individual station acknowledgement Msg2: MF/HF channel (F1B/J2B TTY ARQ)	X		X		
10	Routine call to individual station acknowledgement Msg2: Frequency (Data)	X		X		
11	Routine call to individual station acknowledgement Msg2: Position information (Data)		X	X		Should not be possible
12	Routine call to individual station acknowledgement Msg2: MF/HF channel (Data)	X		X		NOTE 1

NOTE 1
The option to send acknowledgement “unable to comply” is available.

TestH_1-22-2

N	Subject	Sending		Results		Comment
		YES	NO	YES	NO	
1	Routine call to individual station Position acknowledgement		X	X		Should not be possible
2	Routine call to individual station Test call acknowledgement		X	X		Should not be possible
3	Routine call to individual station Polling acknowledgement	X		X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

TE composes the Routine call to individual station EUT by manually.

N	Subject	Sending		Results		Comment
		YES	NO	YES	NO	
1	Routine call to individual station Unable to comply (No reason given)	X		X		
2	Routine call to individual station Unable to comply (Congestion at maritime switching centre)		X	X		See ETSI EN 300 338-2, n.6.7.7
3	Routine call to individual station Unable to comply (Busy)	X		X		
4	Routine call to individual station Unable to comply (Queue indication)	X		X		
5	Routine call to individual station Unable to comply (Station barred)	X		X		
6	Routine call to individual station Unable to comply (No operator available)	X		X		
7	Routine call to individual station Unable to comply (Operator temporarily unavailable)	X		X		
8	Routine call to individual station Unable to comply (Equipment disabled)	X		X		
9	Routine call to individual station Unable to comply (Unable to use proposed channel)	X		X		
10	Routine call to individual station Unable to comply (Unable to use proposed mode)	X		X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

9. Communications automated procedure

[ETSI EN 300 338-2 (2010-02), n.6.8]

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

9.1. Communications automated procedure setup tests (radiotelephone)

[ETSI EN 300 338-2 (2010-02), n.6.8.1]
[ETSI EN 300 338-2 (2010-02), n.6.8.2]
[ETSI EN 300 338-2 (2010-02), n.6.8.3]
[ETSI EN 300 338-2 (2010-02), n.6.8.5]

Scenario	Legend
Is not required	Is not required

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Definition

This tests checks that the radiotelephone communications automated procedure is correctly initiated.

Method of measurement and required results

a) This test checks that the communications automated procedure is correctly initiated when the operator **chooses to monitor a channel** for non DSC traffic.

Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT **select the new working simplex channel** 4149.0 kHz. Verify that:

Item	Result		Com-ment
	YES	NO	
The fact one is engaged in a communications procedure is displayed; [ETSI EN 300 338-2, n.6.8.3,a]	X		
The indication of whether the procedure is on hold or is active are displayed, [ETSI EN 300 338-2, n.6.8.3,b]	X		
The frequencies of the communication is displayed, [ETSI EN 300 338-2, n.6.8.3,c]	X		
The operator options are displayed, [ETSI EN 300 338-2, n.6.8.3,d]	X		
Self MMSI information is displayed. [ETSI EN 300 338-2, n.6.8.3,e]	X		
The latest known position of the vessel and the origin of the position are displayed, [ETSI EN 300 338-2, n.6.8.3,f]	X		
The UTC time of the position is displayed, [ETSI EN 300 338-2, n.6.8.3,g]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.8.2,c(1)]	X		
The option to toggle between activating and placing the procedure on hold is available, [ETSI EN 300 338-2, n.6.8.2,c(2)]	X		
any other options necessary for the traffic mode being handled are available, [ETSI EN 300 338-2, n.6.8.2,c(3)]	X		
you can speak to the EUT from the TE (4149.0 kHz), [ETSI EN 300 338-2, n.6.8.5]	X		
you can speak to the TE from the EUT (4149.0 kHz). [ETSI EN 300 338-2, n.6.8.5]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) This test checks that the communications automated procedure is correctly initiated when the radio transmitter has been keyed from the standby condition.

Set both the EUT and TE in standby. From the EUT select the option to make a phone call (by non DSC means) on simplex channel channel 4146.0 kHz. The radio transmitter key from standby condition. Verify that:

Item	Result		Com-ment
	YES	NO	
The fact one is engaged in a communications procedure is displayed; [ETSI EN 300 338-2, n.6.8.3,a]	X		
The indication of whether the procedure is on hold or is active are displayed, [ETSI EN 300 338-2, n.6.8.3,b]	X		
The frequencies of the communication is displayed, [ETSI EN 300 338-2, n.6.8.3,c]	X		
The operator options are displayed, [ETSI EN 300 338-2, n.6.8.3,d]	X		
Self MMSI information is displayed. [ETSI EN 300 338-2, n.6.8.3,e]	X		
The latest known position of the vessel and the origin of the position are displayed, [ETSI EN 300 338-2, n.6.8.3,f]	X		
The UTC time of the position is displayed, [ETSI EN 300 338-2, n.6.8.3,g]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.8.2,c(1)]	X		
The option to toggle between activating and placing the procedure on hold is available, [ETSI EN 300 338-2, n.6.8.2,c(2)]	X		
any other options necessary for the traffic mode being handled are available, [ETSI EN 300 338-2, n.6.8.2,c(3)]	X		
you can speak to the EUT from the TE (4146 kHz), [ETSI EN 300 338-2, n.6.8.5]	X		
you can speak to the TE from the EUT (4146 kHz). [ETSI EN 300 338-2, n.6.8.5]	X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

9.2. Communications automated procedure setup tests (NBDP)

[ETSI EN 300 338-2 (2010-02), n.6.8.1]
[ETSI EN 300 338-2 (2010-02), n.6.8.2]
[ETSI EN 300 338-2 (2010-02), n.6.8.3]
[ETSI EN 300 338-2 (2010-02), n.6.8.5]

Scenario	Legend
Is not required	Is not required

Definition

This tests checks that the NBDP communications automated procedure is correctly initiated.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) This test checks that the communications automated procedure is correctly initiated when the operator **chooses to monitor a channel** for NBDP traffic.

Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT **select the new paired frequencies for NBDP ARQ mode:** (ship: 6263 kHz, coast: 6314.5 kHz). Verify that:

Note that the details in design of the automated procedure might depend on design of the EUT.

Item	Result		Com-ment
	YES	NO	
The fact one is engaged in a communications procedure is displayed; [ETSI EN 300 338-2, n.6.8.3,a]	X		
The indication of whether the procedure is on hold or is active are displayed, [ETSI EN 300 338-2, n.6.8.3,b]	X		
The frequencies of the communication is displayed, [ETSI EN 300 338-2, n.6.8.3,c]	X		
The operator options are displayed, [ETSI EN 300 338-2, n.6.8.3,d]	X		
Self MMSI information is displayed. [ETSI EN 300 338-2, n.6.8.3,e]	X		
The latest known position of the vessel and the origin of the position are displayed, [ETSI EN 300 338-2, n.6.8.3,f]	X		
The UTC time of the position is displayed, [ETSI EN 300 338-2, n.6.8.3,g]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.8.2,c(1)]	X		
The option to toggle between activating and placing the procedure on hold is available [NOTE: EUT can not to set on the hold without end of communication], [ETSI EN 300 338-2, n.6.8.2,c(2)]	X		
any other options necessary for the traffic mode being handled are available, [ETSI EN 300 338-2, n.6.8.2,c(3)]	X		
you can set ARQ communication with the TE on the selected channel (ship: 6263 kHz, coast: 6314.5 kHz), [ETSI EN 300 338-2, n.6.8.5]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) This test checks that the communications automated procedure is correctly initiated when the receiver is activated by the reception of the NBDP ARQ mode call signal.

Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. On the EUT set **paired frequencies for NBDP ARQ mode:** (ship: 6263 kHz, coast: 6314.5 kHz). From the TE make a ARQ call to EUT. Verify that:

Note that the details in design of the automated procedure might depend on design of the EUT.

Item	Result		Com-ment
	YES	NO	
The fact one is engaged in a communications procedure is displayed; [ETSI EN 300 338-2, n.6.8.3,a]	X		
The indication of whether the procedure is on hold or is active are displayed, [ETSI EN 300 338-2, n.6.8.3,b]	X		
The frequencies of the communication is displayed, [ETSI EN 300 338-2, n.6.8.3,c]	X		
The operator options are displayed, [ETSI EN 300 338-2, n.6.8.3,d]	X		
Self MMSI information is displayed. [ETSI EN 300 338-2, n.6.8.3,e]	X		
The latest known position of the vessel and the origin of the position are displayed, [ETSI EN 300 338-2, n.6.8.3,f]	X		
The UTC time of the position is displayed, [ETSI EN 300 338-2, n.6.8.3,g]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.8.2,c(1)]	X		
The option to toggle between activating and placing the procedure on hold is available [NOTE: EUT can not to set on the hold without end of communication], [ETSI EN 300 338-2, n.6.8.2,c(2)]	X		
any other options necessary for the traffic mode being handled are available, [ETSI EN 300 338-2, n.6.8.2,c(3)]	X		
you can set ARQ communication with the EUT on the selected channel (ship: 6263 kHz, coast: 6314.5 kHz), [ETSI EN 300 338-2, n.6.8.5]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

c) This test checks that the communications automated procedure is correctly initiated when the operator **chooses to monitor a channel** for NBDP traffic.

Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT **select the new frequencies for NBDP FEC mode:** (12 520.0 kHz). Verify that:

Note that the details in design of the automated procedure might depend on design of the EUT.

Item	Result		Com-ment
	YES	NO	
The fact one is engaged in a communications procedure is displayed; [ETSI EN 300 338-2, n.6.8.3,a]	X		
The indication of whether the procedure is on hold or is active are displayed, [ETSI EN 300 338-2, n.6.8.3,b]	X		
The frequencies of the communication is displayed, [ETSI EN 300 338-2, n.6.8.3,c]	X		
The operator options are displayed, [ETSI EN 300 338-2, n.6.8.3,d]	X		
Self MMSI information is displayed. [ETSI EN 300 338-2, n.6.8.3,e]	X		
The latest known position of the vessel and the origin of the position are displayed, [ETSI EN 300 338-2, n.6.8.3,f]	X		
The UTC time of the position is displayed, [ETSI EN 300 338-2, n.6.8.3,g]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.8.2,c(1)]	X		
The option to toggle between activating and placing the procedure on hold is available [NOTE: EUT can not to set on the hold without end of communication], [ETSI EN 300 338-2, n.6.8.2,c(2)]	X		
any other options necessary for the traffic mode being handled are available, [ETSI EN 300 338-2, n.6.8.2,c(3)]	X		
You can set FEC communication with the TE on the selected channel (12 520.0 kHz), [ETSI EN 300 338-2, n.6.8.5]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

d) This test checks that the communications automated procedure is correctly initiated when the receiver is activated by the reception of the NBDP FEC mode call signal.

Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. On the EUT set MSI-HF **frequency for NBDP RX FEC mode:** (8416.5 kHz). From the TE make a FEC call to EUT. Verify that:

Note that the details in design of the automated procedure might depend on design of the EUT.

Item	Result		Com-ment
	YES	NO	
The fact one is engaged in a communications procedure is displayed; [ETSI EN 300 338-2, n.6.8.3,a]	X		
The indication of whether the procedure is on hold or is active are displayed, [ETSI EN 300 338-2, n.6.8.3,b]	X		
The frequencies of the communication is displayed, [ETSI EN 300 338-2, n.6.8.3,c]	X		
The operator options are displayed, [ETSI EN 300 338-2, n.6.8.3,d]	X		
Self MMSI information is displayed. [ETSI EN 300 338-2, n.6.8.3,e]	X		
The latest known position of the vessel and the origin of the position are displayed, [ETSI EN 300 338-2, n.6.8.3,f]	X		
The UTC time of the position is displayed, [ETSI EN 300 338-2, n.6.8.3,g]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.8.2,c(1)]	X		
The option to toggle between activating and placing the procedure on hold is available [NOTE: EUT can not to set on the hold without end of communication], [ETSI EN 300 338-2, n.6.8.2,c(2)]	X		
any other options necessary for the traffic mode being handled are available, [ETSI EN 300 338-2, n.6.8.2,c(3)]	X		
you can set FEC communication with the EUT on the selected channel (8416.5 kHz), [ETSI EN 300 338-2, n.6.8.5]	X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

9.3. Communications automated procedure setup tests (Morse telegraphy)

[ETSI EN 300 338-2 (2010-02), n.6.8.1]
[ETSI EN 300 338-2 (2010-02), n.6.8.2]
[ETSI EN 300 338-2 (2010-02), n.6.8.3]
[ETSI EN 300 338-2 (2010-02), n.6.8.5]

Scenario	**Legend**
Is not required	Is not required

Definition

This tests checks that the A1A (A1B) Morse telegraphy communications automated procedure is correctly initiated.

Note that the details in design of the automated procedure might depend on design of the EUT.

The equipment meets the requirements (yes / no /n.a)	**n.a**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

9.4. Communications automated procedure setup tests (Facsimile)

[ETSI EN 300 338-2 (2010-02), n.6.8.1]
[ETSI EN 300 338-2 (2010-02), n.6.8.2]
[ETSI EN 300 338-2 (2010-02), n.6.8.3]
[ETSI EN 300 338-2 (2010-02), n.6.8.5]

Scenario	Legend
Is not required	Is not required

Definition

This tests checks that the Facsimile communications automated procedure is correctly initiated.

Note that the details in design of the automated procedure might depend on design of the EUT.

The equipment meets the requirements (yes / no /n.a)	**n.a**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

9.5. Handling incoming DSC calls while the equipment is engaged in radiotelephone communications automated procedure

[ETSI EN 300 338-2 (2010-02), n.6.8.4]
[ETSI EN 300 338-2 (2010-02), n.6.8.3]
[ETSI EN 300 338-2 (2010-02), n.6.8.1]
[ETSI EN 300 338-2 (2010-02), n.6.9.2]

Scenario	**Legend**
TestV12H_0051-2	*TestH_0N0E*

03:00 Distress call MMSI ship in distress is 273000002 (6312.0 kHz)
06:00 Distress relay to All ships MMSI ship in distress is 273000003 (8414.5 kHz)
09:00 Distress ACK for MMSI ship in distress is 273000004 (4207.5 kHz)
12:00 Urgency Geographic area RT call 12 290 kHz (12 577.0 kHz)
15:00 Safety Individual FEC call 16695.0 kHz to EUT (16 804.5 kHz)

Definition

This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the radiotelephone communications automated procedure do not disturb the communications and that the received DSC message properly initiates its own automated procedure on hold.

a) Reset EUT into Standby. From the EUT select the option to make a phone call (by non DSC means) on the simplex channel 8 294.0 kHz. Verify that:

Item **Communication RT**	**Result**		**Com-ment**
	YES	**NO**	
EUT is engaged the communication automated procedure [ETSI EN 300 338-2, n.6.8.1]	**X**		
You can communication from TE to EUT (8 294.0 kHz),	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Send on the 6312.0 kHz from TE Distress call. Verify that:

TestV12H_0051-2.scn
03:00

Distress call			
Item	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the two tone alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	**X**		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	**X**		
The type (alert, relay, alert acknowledgement, relay acknowledgement), sender, and intended destination (individual, area, all ships) of the latest received DSC message is displayed; [ETSI EN 300 338-2, n.6.5.3,f]	**X**		
The history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	**X**		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	**X**		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	**X**		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to send a distress alert acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	**X**		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
You can speak to the EUT from the TE (8294.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (8294.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		

Select new on hold procedure and select option ‘terminate’.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

c) Send on the 8414.5 kHz from TE Distress relay to Geographic area. Verify that:

TestV12H_0051-2.scn
06:00

Item **Distress relay to Geographic area**	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the two tone alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	**X**		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	**X**		
The type (alert, relay, alert acknowledgement, relay acknowledgement), sender, and intended destination (individual, area, all ships) of the latest received DSC message is displayed; [ETSI EN 300 338-2, n.6.5.3,f]	**X**		
The history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	**X**		
The operator is informed that the procedure is waiting for an acknowledgement, [ETSI EN 300 338-2, n.6.5.3,l(3)]	**X**		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to send a distress alert acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2)]	**X**		
The option to send a distress relay acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
You can speak to the EUT from the TE (8294.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (8294.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		

Select new on hold procedure and select option ‘terminate’.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

d) Send on the 4207.5 kHz from TE distress ACK. Verify that:

TestV12H_0051-2.scn
09:00

Item Distress ACK	Result		Com-ment
	YES	NO	
The EUT sounds the distress ack alarm, [ETSI EN 300 338-2, n.6.5.5]	X		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	X		
the alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	X		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	X		
the latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
the type (alert, relay, alert acknowledgement, relay acknowledgement), sender, and intended destination (individual, area, all ships) of the latest received DSC message is displayed; [ETSI EN 300 338-2, n.6.5.3,f]	X		
the history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	X		
the operator is informed that the procedure is acknowledged, [ETSI EN 300 338-2, n.6.5.3,l(5)]	X		
the option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
the option to send a distress alert acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2)]	X		
the option to send a distress relay acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2]	X		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
the elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (8294.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (8294.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		

Select current active automated procedure. Verify that:

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

e) Send on the 12 577.0 kHz from TE DSC urgency Geographic area RT 12290 kHz. Verify that:

TestV12H_0051-2.scn
12:00

Item **Urgency Geographic area call**	**Result**		**Com-ment**
	YES	**NO**	
the EUT sounds the urgency alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
the reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
the alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	**X**		
the information content of the received DSC message is displayed and correct, [ETSI EN 300 338-2,n.6.7.3,f]	**X**		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
the elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
You can speak to the EUT from the TE (8294.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (8294.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		

Select new on hold procedure and select option ‘terminate’.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

f) Send on the 16 804.5 kHz from TE DSC Safety Individual call FEC 16695 kHz to EUT. Verify that:

TestV12H_0051-2.scn
15:00

Item **Safety Individual call**	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the Routine alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
the reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	**X**		
the information content of the received DSC message is displayed and correct, [ETSI EN 300 338-2,n.6.7.3,f]	**X**		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
the elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
the option to send a Individual acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	**X**		
You can speak to the EUT from the TE (8294.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (8294.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

9.6. Handling incoming DSC calls while the equipment is engaged in NBDP communications automated procedure

[ETSI EN 300 338-2 (2010-02), n.6.8.4]
[ETSI EN 300 338-2 (2010-02), n.6.8.3]
[ETSI EN 300 338-2 (2010-02), n.6.8.1]
[ETSI EN 300 338-2 (2010-02), n.6.9.2]

Scenario	Legend
TestV12H_0051-2	*TestH_0N0E*

03:00 Distress call MMSI ship in distress is 273000002 (6312.0 kHz)
06:00 Distress relay to All ships MMSI ship in distress is 273000003 (8414.5 kHz)
09:00 Distress ACK for MMSI ship in distress is 273000004 (4207.5 kHz)
12:00 Urgency Geographic area RT call 12 290 kHz (12 577.0 kHz)
15:00 Safety Individual FEC call 16695.0 kHz to EUT (16 804.5 kHz)

Definition

This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the NBDP communications automated procedure do not disturb the communications and that the received DSC message properly initiates its own automated procedure on hold.

a) Reset EUT into Standby. From the TE select the option to make a FEC call (by non DSC means) on the frequency 2174.5 kHz. Verify that:

Item Communication Rx FEC	Result		Com-ment
	YES	NO	
EUT is engaged the communication automated procedure [ETSI EN 300 338-2, n.6.8.1]	X		
You can communication from TE to EUT (2174.5 kHz),	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Send on the 6312.0 kHz from TE Distress call. Verify that:

TestV12H_0051-2.scn
03:00

Distress call			
Item	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the two tone alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	**X**		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	**X**		
The type (alert, relay, alert acknowledgement, relay acknowledgement), sender, and intended destination (individual, area, all ships) of the latest received DSC message is displayed; [ETSI EN 300 338-2, n.6.5.3,f]	**X**		
The history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	**X**		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	**X**		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	**X**		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to send a distress alert acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	**X**		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
You can communication from TE to EUT (2174.5 kHz),	**X**		

Select new on hold procedure and select option ‘terminate’.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

c) Send on the 8414.5 kHz from TE Distress relay to Geographic area. Verify that:

TestV12H_0051-2.scn
06:00

Item **Distress relay to Geographic area**	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the two tone alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	**X**		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	**X**		
The type (alert, relay, alert acknowledgement, relay acknowledgement), sender, and intended destination (individual, area, all ships) of the latest received DSC message is displayed; [ETSI EN 300 338-2, n.6.5.3,f]	**X**		
The history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	**X**		
The operator is informed that the procedure is waiting for an acknowledgement, [ETSI EN 300 338-2, n.6.5.3,l(3)]	**X**		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to send a distress alert acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2)]	**X**		
The option to send a distress relay acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
You can communication from TE to EUT (2174.5 kHz),	**X**		

Select new on hold procedure and select option ‘terminate’.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

d) Send on the 4207.5 kHz from TE distress ACK. Verify that:

TestV12H_0051-2.scn
09:00

Item Distress ACK	Result		Com-ment
	YES	NO	
The EUT sounds the distress ack alarm, [ETSI EN 300 338-2, n.6.5.5]	X		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	X		
the alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	X		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	X		
the latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
the type (alert, relay, alert acknowledgement, relay acknowledgement), sender, and intended destination (individual, area, all ships) of the latest received DSC message is displayed; [ETSI EN 300 338-2, n.6.5.3,f]	X		
the history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	X		
the operator is informed that the procedure is acknowledged, [ETSI EN 300 338-2, n.6.5.3,l(5)]	X		
the option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
the option to send a distress alert acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2)]	X		
the option to send a distress relay acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2]	X		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
the elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can communication from TE to EUT (2174.5 kHz),	X		

Select current active automated procedure. Verify that:

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

e) Send on the 12 577.0 kHz from TE DSC urgency Geographic area RT 12290 kHz. Verify that:

TestV12H_0051-2.scn
12:00

Item **Urgency Geographic area call**	**Result**		**Com-ment**
	YES	**NO**	
the EUT sounds the urgency alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
the reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
the alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	**X**		
Initiate their own automated procedures **<u>on hold</u>** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	**X**		
the information content of the received DSC message is displayed and correct, [ETSI EN 300 338-2,n.6.7.3,f]	**X**		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
the elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
You can communication from TE to EUT (2174.5 kHz),	**X**		

Select new on hold procedure and select option ‘terminate’.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

f) Send on the 16 804.5 kHz from TE DSC Safety Individual call FEC 16695 kHz to EUT. Verify that:

TestV12H_0051-2.scn
15:00

Item **Safety Individual call**	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the Routine alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
the reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	**X**		
the information content of the received DSC message is displayed and correct, [ETSI EN 300 338-2,n.6.7.3,f]	**X**		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
the elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
the option to send a Individual acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	**X**		
You can communication from TE to EUT (2174.5 kHz),	**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

9.7. Termination of the automated procedure options test

[ETSI EN 300 338-2 (2010-02), n.6.8.6]
[ETSI EN 300 338-2 (2010-02), n.6.3,m]

The following setup options shall be available with the following factory defaults:
m) the option to set the no activity timeout of communications automated procedures to some value in the range [10 seconds to 10 min]: set 30 seconds.

[ETSI EN 300 338-2 (2010-02), n.6.3,m]

Verify default standby options:

Automated timeout				
Item	**Value**	**Result**		**Com-ment**
		YES	**NO**	
There are facilites of timeout	YES	**X**		
Possibility of change value of timeout	YES	**X**		
Limits of timeout	10 sec – 600 sec	**X**		10 sec – 10 min
Default value of timeout	30 sec	**X**		30 sec
Facilites to set no active timeout	NO	**X**		No
Default setting		n.a	n.a	

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

9.8. Manually termination automated procedure test

[ETSI EN 300 338-2 (2010-02), n.6.8.6]
[ETSI EN 300 338-2 (2010-02), n.6.3]

a) Reset EUT into Standby. Set no timeout or maximum value.

The communications automated procedure is initiated when the operator chooses to monitor on the frequency 6215.0 kHz. Verify that:

Item **Communication RT**	**Result**		**Com-ment**
	YES	**NO**	
EUT is engaged the communication automated procedure [ETSI EN 300 338-2, n.6.8.1]	**X**		
The termination option is available [ETSI EN 300 338-2, n.6.8.2]	**X**		

Select option to terminate communication procedure. Verify that:

Item **Manually termination of automated procedure**	**Result**		**Com-ment**
	YES	**NO**	
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.8.2,c(1)]	**X**		
Upon selection of the option to terminate the procedure a warning is **NOT** provided. [ETSI EN 300 338-2, n.6.8.6]	**X**		

b) Reset EUT into Standby. Set no timeout or maximum value.

From the EUT select the option to make a phone call (by non DSC means) on the frequency 6215.0 kHz. The radio transmitter key from standby condition (the communications automated procedure is correctly initiated when the radio transmitter has been keyed from the standby condition). Verify that:

Item **Communication RT**	**Result**		**Com-ment**
	YES	**NO**	
EUT is engaged the communication automated procedure [ETSI EN 300 338-2, n.6.8.1]	**X**		
The termination option is available [ETSI EN 300 338-2, n.6.8.2]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select option to terminate communication procedure. Verify that:

Item **Manually termination of automated procedure**	**Result**		**Com-ment**
	YES	**NO**	
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.8.2,c(1)]	**X**		
Upon selection of the option to terminate the procedure a warning is **NOT** provided. [ETSI EN 300 338-2, n.6.8.6]	**X**		

c) Reset EUT into Standby. Set no timeout or maximum value.

From the TE select the option to make a FEC call (by non DSC means) on the frequency 2174.5 kHz. Verify that:

Item **Communication Rx FEC**	**Result**		**Com-ment**
	YES	**NO**	
EUT is engaged the communication automated procedure [ETSI EN 300 338-2, n.6.8.1]	**X**		
You can communication from TE to EUT (2174.5 kHz),	**X**		

Select option to terminate communication procedure. Verify that:

Item **Manually termination of automated procedure**	**Result**		**Com-ment**
	YES	**NO**	
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.8.2,c(1)]		**X**	(12)
Upon selection of the option to terminate the procedure a warning is provided. *<Terminate via End of Communication procedure Recommend>* [ETSI EN 300 338-2, n.6.8.6]	**X**		

(12) (E1094)
For the case when equipment is engaged in the NBDP communications option “Terminate” is blocked. When choosing an operator option “Terminate” a warning appears : “UNABLE TO COMPLY. PLEASE TERMINATE TELEX CONNECTION”..
That is, the operator shall terminate at the Message Terminal (separate unit SAILOR 6006) the telex session communication first. Only after that may terminate the automated communications procedure from the control unit SAILOR 6301.
[ETSI EN 300 338-2, n.6.4.13]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

9.9. Termination of automated procedure by automated timout

[ETSI EN 300 338-2 (2010-02), n.6.8.6]
[ETSI EN 300 338-2 (2010-02), n.6.3]

a) Reset EUT into Standby. Set automated termination timout.

The communications automated procedure is initiated when the operator chooses to monitor a channel (12 290.0 kHz). Verify that:

Item **Communication RT**	**Result**		**Com-ment**
	YES	**NO**	
EUT is engaged the communication automated procedure [ETSI EN 300 338-2, n.6.8.1]	**X**		
The termination option is available [ETSI EN 300 338-2, n.6.8.2]	**X**		

Wait the automatic termination. Verify that:

Item **Termination of automated procedure by automated timout**	**Result**		**Com-ment**
	YES	**NO**	
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.8.2]	**X**		
No need prior to automated termination a visual and discrite aural warning displayed [ETSI EN 300 338-2,n.6.8.6]	**X**		

b) Reset EUT into Standby. Set automated termination timout.

From the EUT select the option to make a phone call (by non DSC means) call on the frequency 6215.0 kHz. The radio transmitter key from standby condition (the communications automated procedure is correctly initiated when the radio transmitter has been keyed from the standby condition). Verify that:

Item **Communication RT**	**Result**		**Com-ment**
	YES	**NO**	
EUT is engaged the communication automated procedure [ETSI EN 300 338-2, n.6.8.1]	**X**		
The termination option is available [ETSI EN 300 338-2, n.6.8.2]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Wait the automatic termination. Verify that:

Item **Termination of automated procedure by automated timout**	**Result**		**Com-ment**
	YES	**NO**	
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.8.2]	**X**		
No need prior to automated termination a visual and discrite aural warning displayed [ETSI EN 300 338-2,n.6.8.6]	**X**		

c) Reset EUT into Standby. Set no timeout or maximum value.

From the TE select the option to make a FEC call (by non DSC means) on the frequency 2174.5 kHz. Verify that:

Item **Communication Rx FEC**	**Result**		**Com-ment**
	YES	**NO**	
EUT is engaged the communication automated procedure [ETSI EN 300 338-2, n.6.8.1]	**X**		
You can communication from TE to EUT (2174.5 kHz),	**X**		

Select option to terminate communication procedure. Verify that:

Item **Termination of automated procedure by automated timout**	**Result**		**Com-ment**
	YES	**NO**	
the option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.8.2,c(1)]	**X**		
No need prior to automated termination a visual and discrite aural warning displayed [ETSI EN 300 338-2,n.6.8.6]	n.a	n.a	NOTE 1

NOTE 1
EUT is engaged in the communication.

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

10. Multiple automated procedures and parallel event handling

[ETSI EN 300 338-2 (2010-02), n.6.9]

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

10.1. Handling of received DSC messages that are pertinent to the station while the radio is engaged in the sending distress alert automated procedure (initiate its new own automated procedure on hold)

[ETSI EN 300 338-2 (2010-02), n.6.9.2]

Scenario	Legend
TestV12H_0081.scn	*TestH_0N0E*

Definition

This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the **sending distress automated procedure (after acknowledge)** and that the received DSC message properly initiates its own automated procedure on hold.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) **This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in an acknowledged sent distress automated procedure do not disturb the sent distress automated procedure and that the received DSC message Distress call concerning other distress event properly initiates its own automated procedure on hold.**

This test checks the facilites of on hold automated procedure before acknowledge of sending distress alert procedure.

Reset EUT into Standby. From EUT send default **Distress call attempt**. Verify that automated procedure is initiated. From TE send the calls listed in the table witch pertinent to station, but not for the currently active automated procedure. Verify that:

00:00 Initiale Distress call from EUT
01:00 starting of sending calls listed in the table (2187.5 kHz).

TestV12H_0081.scn

N	DSC sentence	Verify				Com-ment
		Procedure sub-stage	Alarm	Indica-tion	Logged	
1	Distress relay RT Individual	Wait for ACK	No	No	Yes	
2	Geographic area RT call Safety	Wait for ACK	No	No	Yes	
3	Geographic area RT call Urgency	Wait for ACK	No	No	Yes	
4	Distress alert	Wait for ACK	No	No	Yes	
5	Individual RT call Urgency	Wait for ACK	No	No	Yes	
6	Distress relay RT Geographic area	Wait for ACK	No	No	Yes	
7	Distress relay RT Individual	Wait for ACK	No	No	Yes	
8	Distress acknowledgement	Wait for ACK	No	No	Yes	

Item **Initiale own Distress call**	**Result**		**Com-ment**
	YES	**NO**	
The sub-stage of the procedure should not be changed: "waiting for acknowledgement", [ETSI EN 300 338-2, n.6.4.12]	**X**		
The reception of the call should **NOT** sounds the alarm, [ETSI EN 300 338-2, n.6.4.8]	**X**		
The calls should be ignored and only recorded in the log, [ETSI EN 300 338-2, n.6.4.7] [ETSI EN 300 338-2, n.6.9.2]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in an acknowledged sent distress automated procedure do not disturb the sent distress automated procedure and that the received DSC message properly initiates its own automated procedure on hold.

Reset EUT into Standby. From EUT send default **Distress call attempt**. Verify that automated procedure is initiated.
From TE send on the **6312.0** kHz the distress alert **acknowledgement**. Verify that:

Item Destress alert acknowledgement	Result		Com-ment
	YES	NO	
The sub-stage of the procedure should be: “alert acknowledged”, [ETSI EN 300 338-2, n.6.4.3]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

From TE send on the **4207.5 kHz** distress alert concerning a new distress event. Verify that:

02:00 Distress call from 273111111
TestV12H_0119.scn

Item On hold procedure (Distress call)	Result		Com-ment
	YES	NO	
The EUT sounds the two tone alarm, [ETSI EN 300 338-2, n.6.5.5]	X		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	X		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	X		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	X		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	X		
The frequency of sub-communication is displayed (4125.0 kHz), [ETSI EN 300 338-2, n.6.5.3,h]	X		
The frequency on witch the DSC message have been received is displayed, (4207.5 kHz) [ETSI EN 300 338-2, n.6.5.3,c]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**6215.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**6215.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active sending distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Active state of sending distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	X		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		

Select new on hold receiving distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select procedure on hold [ETSI EN 300 338-2, n.6.9.2]	X		
the option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Make the receiving distress automated procedure **active**. Verify that:

Item On hold procedure (Distress call)	Result		Com-ment
	YES	NO	
Active state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is available, (MF) [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
the option to place the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**4125.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**4125.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Select on hold sending distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
The operator is able to select on hold sending distress alert automated procedure [ETSI EN 300 338-2, n.6.9.2]	X		
On hold state of sending distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		

Select new active receiving distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Send a distress relay (default frequency is 4207.5 kHz), [ETSI EN 300 338-2,n.6.9.2]		X	(44)

Manually terminate the receiving distress automated procedure.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

This test checks the facilites of termination of on hold automated procedure by automated timout (if implement).

Reset EUT into Standby. Set automated termination of procedure **timeout**.

From EUT send Default **Distress call attempt**. Verify that sending distress alert automated procedure is initiated.

From TE send on the frequency **6312.0** kHz the distress alert **acknowledgement**. Verify that:

Item Destress alert acknowledgement	Result		Com-ment
	YES	NO	
The sub-stage of the procedure should be: "alert acknowledged", [ETSI EN 300 338-2, n.6.4.3]	X		

From TE send on the frequency 12 577.0 kHz **distress alert**. Verify that:

02:00 Distress call from 273111111
TestV12H_0119.scn

Item On hold procedure (Distress call)	Result		Com-ment
	YES	NO	
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	X		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		

Select current active sending distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Active state of sending distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	X		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Waiting for automated termination of on hold receiving distress automated procedure. Verify that:

Termination of on hold automated procedure by automated timout	**Result**		**Com-ment**
	YES	**NO**	
At least ten seconds prior to automated termination of on hold receiving distress automated procedure, a visual and discrete aural warning shall be displayed with the option to stop the automatic termination. [ETSI EN 300 338-2,n.6.7.8]		**X**	(45)
The operator should have the option to go back to the stage of the automated procedure where the action was taken that caused the warning. [Rec. ITU-R M.493-13, Ann.4, n.3.1.6]	**X**		

b) <u>This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in an acknowledged sent distress automated procedure do not disturb the sent distress automated procedure and that the received DSC message Urgency Individual call properly initiates its own automated procedure on hold.</u>

Reset EUT into Standby. From EUT send default **Distress call attempt**. Verify that automated procedure is initiated.

From TE send on the frequency 16 804.5 kHz the distress alert **<u>acknowledgement</u>**. Verify that:

Item **Destress alert acknowledgement**	**Result**		**Com-ment**
	YES	**NO**	
The sub-stage of the procedure should be: “alert acknowledged”, [ETSI EN 300 338-2, n.6.4.3]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

From TE send on the 6312.0 kHz Urgency Individual call addressed to the EUT RT duplex channel 601 (ship 6200.0 kHz coast 6501.0 kHz). Verify that:

02:00 from 273111111
TestV12H_0130.scn

Item On hold procedure (Ugency Individual call RT 601 6200.0/6501.0 kHz)	Result		Com-ment
	YES	NO	
The EUT sounds the Ugency alarm, [ETSI EN 300 338-2, n.6.5.5]	X		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	X		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	X		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2]	X		
The fact one is engaged in receiving a non distress procedure is displayed; [ETSI EN 300 338-2, n.6.9.2]	X		
On hold state of procedure is displayed, [ETSI EN 300 338-2, n.6.9.2]	X		
The information content of the received DSC message is displayed or available on the EUT [ETSI EN 300 338-2, n.6.9.2]	X		
the option to send able to comply" acknowledgement is **NOT** available, [ETSI EN 300 338-2, n.6.9.2]	X		
the 'unable to comply' acknowledgment option is **NOT** available, [ETSI EN 300 338-2, n.6.9.2]	X		
the 'able to comply with mode/frequency change' acknowledgment option is **NOT** available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the EUT states that it is waiting for the operator to respond/select an acknowledgment, [ETSI EN 300 338-2, n.6.9.2]	X		
the time since receiving DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.9.2]	X		
You can speak to the EUT from the TE (16 420.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (16 420.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active sending distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Active state of sending distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	X		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		

Select new on hold receiving non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
On hold state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select procedure on hold [ETSI EN 300 338-2, n.6.9.2]	X		
the option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Make the receiving non distress automated procedure **active**. Verify that:

Item On hold procedure (Ugency Individual call RT 601 6200.0/6501.0 kHz)	Result		Com-ment
	YES	NO	
Active state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The information content of the received DSC message is displayed or available on the EUT [ETSI EN 300 338-2, n.6.9.2]	X		
the option to send ”able to comply” acknowledgement is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the ‘unable to comply’ acknowledgment option is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the ‘able to comply with mode/frequency change’ acknowledgment option is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the option to place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the EUT states that it is waiting for the operator to respond/select an acknowledgment, [ETSI EN 300 338-2, n.6.9.2]	X		
the time since receiving DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.9.2]	X		

Send on the frequency 6312.0 kHz ‘able to comply’ acknowledgement to TE.

Select on hold sending distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
The operator is able to select on hold sending distress alert automated procedure [ETSI EN 300 338-2, n.6.9.2]	X		
On hold state of sending distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
You can speak to the EUT from the TE (**6501.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**6200.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select new active receiving non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Option to send a 'able to comply' acknowledgement is available, [ETSI EN 300 338-2,n.6.9.2]	X		
Send a 'able to comply' acknowledgement, [ETSI EN 300 338-2,n.6.9.2)]	X		
You can speak to the EUT from the TE (**6501.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**6200.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Manually terminate the receiving non distress automated procedure.

(44) (E1097)
EUT has two automated procedures: sending distress acknowledged state (on hold) and receiving distress (active). From receiving distress automated procedure is transmitted the distress relay.
Since the trasmitting distress relay equipment changes the focus from the currently active procedure, the procedure in hold. Consequently during and after transmitting operator does not see top level information: the elapsed time, the stage, the operator options.

[ETSI EN 300 338-2, n.6.7.3]
[ETSI EN 300 338-2, n.6.9.2]

(45) (E566)(E155)(E1098)
The equipment is engaged in the handling of multiple automated procedures simultaneously (up to 7). Termination event occurs automatically one of the procedures.
Displays a warning, but the operator does not informed which of the procedures (from up to 7) will be terminated.

[ETSI EN 300 338-2,n.6.9.2]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

10.2. Handling of received DSC messages that are pertinent to the station while the radio is engaged in the receiving distress automated procedure (initiate its new own automated procedure on hold)

[ETSI EN 300 338-2 (2010-02), n.6.9.2]

Scenario	Legend
	Is not required

Definition

This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the **receiving distress automated procedure** and that the received DSC message properly initiates its own automated procedure on hold.

Method of measurement and required results

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

a) <u>This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the receiving distress automated procedure do not disturb the receiving distress automated procedure and that the received DSC message Distress call concerning a new distress event properly initiates its own automated procedure on hold.</u>

Reset EUT into Standby. From TE send on the frequency 12 577.0 kHz **Distress call attempt**. Verify that automated procedure is initiated. Verify that:

00:00 Initiale Distress call MMSI 273000001 (Channel 1)
TestV12H_0131.scn

Item Initiate Distress call	Result		Com-ment
	YES	NO	
The EUT sounds the two tone alarm, [ETSI EN 300 338-2, n.6.5.5]	X		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	X		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	X		
Initiate receiving distress automated procedure [ETSI EN 300 338-2, n.6.5.5]	X		
On active state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
The operator is informed that the procedure is **<u>waiting for an acknowledgement</u>**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	X		
The frequency of subsequent communication is displayed (12 290 kHz), [ETSI EN 300 338-2, n.6.5.3,h]	X		
The frequency on which the DSC message have been received is displayed (12 577 kHz), [ETSI EN 300 338-2, n.6.5.3,h]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is NOT available (HF), [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is **<u>NOT</u>** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to place on hold the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

From TE send on the frequency 6312.0 kHz distress alert concerning a new distress event. Verify that:

02:00 Distress call from 273111111 (Channel 2)
TestV12H_0131.scn

Item On hold procedure (Distress call)	Result		Com-ment
	YES	NO	
The EUT sounds the two tone alarm, [ETSI EN 300 338-2, n.6.5.5]	X		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	X		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	X		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	X		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	X		
The frequency of subsequent communication is displayed (6215.0 kHz), [ETSI EN 300 338-2, n.6.5.3,h]	X		
The frequency on which the DSC message have been received is displayed (6312.0 kHz), [ETSI EN 300 338-2, n.6.5.3,h]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active receiving distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Active state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is NOT available (HF), [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to place on hold the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Select option to send distress relay (distress acknowledgement). Verify that:

Item	Result		Com-ment
	YES	NO	
The operator is able to send distress acknowledgement (MF) [ETSI EN 300 338-2, n.6.9.2]			n.a
The information content of the distress acknowledgement is correct (MF). [ETSI EN 300 338-2, n.6.9.2]			n.a
The distress acnowledgement correctly received on the TE (MF) [ETSI EN 300 338-2, n.6.9.2]			n.a
The operator is able to send distress relay (default 12 577.0 kHz) [ETSI EN 300 338-2, n.6.9.2]	X		
The information content of the distress relay is correct. [ETSI EN 300 338-2, n.6.9.2]	X		
The distress relay is correctly received on the TE [ETSI EN 300 338-2, n.6.9.2]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select new on hold receiving distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select procedure on hold [ETSI EN 300 338-2, n.6.9.2]	X		
the option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		

Make the receiving distress automated procedure **active**. Verify that:

Item On hold procedure (Distress call)	Result		Com-ment
	YES	NO	
Active state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is NOT available (HF), [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
the option to place the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**6215.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**6215.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select on hold initiate receiving distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
The operator is able to select on hold receiving distress alert automated procedure [ETSI EN 300 338-2, n.6.9.2]	X		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is NOT available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**6215.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**6215.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Select new active receiving distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Send a distress relay (default on the 6312.0 kHz), [ETSI EN 300 338-2,n.6.9.2]	X		
Send a distress alert acknowledgement (MF), [ETSI EN 300 338-2,n.6.9.2)]			n.a

Manually terminate the receiving distress automated procedure.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) **<u>This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the receiving distress automated procedure do not disturb the receiving distress automated procedure and that the received DSC message Safety Individual call to EUT properly initiates its own automated procedure on hold.</u>**

Reset EUT into Standby. From TE send on the frequency 12 577.0 kHz **Distress call attempt**. Verify that automated procedure is initiated. Verify that:

00:00 Initiale Distress call MMSI 273000001 (Channel 1)
TestV12H_0132.scn

Item Initiate Distress call	Result		Com-ment
	YES	NO	
The EUT sounds the two tone alarm, [ETSI EN 300 338-2, n.6.5.5]	X		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	X		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	X		
Initiate receiving distress automated procedure [ETSI EN 300 338-2, n.6.5.5]	X		
On active state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
The operator is informed that the procedure is **<u>waiting for an acknowledgement</u>**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	X		
The frequency of subsequent communication is displayed (12 290 kHz), [ETSI EN 300 338-2, n.6.5.3,h]	X		
The frequency on which the DSC message have been received is displayed (12 577 kHz), [ETSI EN 300 338-2, n.6.5.3,h]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is NOT available (HF), [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is **<u>NOT</u>** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to place on hold the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

From TE send on the 2187.5 kHz Safety Individual call addressed to the EUT RT 2182.0 kHz. Verify that:

02:00 from 002730000
TestV12H_0132.scn

Item **On hold procedure (Safety Individual call RT 2182)**	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the Routine alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2]	**X**		
The fact one is engaged in receiving a non distress procedure is displayed; [ETSI EN 300 338-2, n.6.9.2]	**X**		
On hold state of procedure is displayed, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The information content of the received DSC message is displayed or available on the EUT [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to send able to comply" acknowledgement is **NOT** available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the 'unable to comply' acknowledgment option is **NOT** available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the 'able to comply with mode/frequency change' acknowledgment option is **NOT** available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the EUT states that it is waiting for the operator to respond/select an acknowledgment, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The frequency and mode of subsequent communication are displayed (2182.0 kHz) [ETSI EN 300 338-2, n.6.7.3,f(5)]	**X**		
The frequency on which the DSC message have been received is displayed (2187.5 kHz) [ETSI EN 300 338-2, n.6.7.3,f(6)]	**X**		
the time since receiving DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.9.2]	**X**		
You can speak to the EUT from the TE (**12290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (**12290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active receiving distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Active state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is NOT available (HF), [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to place on hold the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**12290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**12290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Select option to send distress relay (distress acknowledgement). Verify that:

Item	Result		Com-ment
	YES	NO	
The operator is able to send distress acknowledgement (MF) [ETSI EN 300 338-2, n.6.9.2]			n.a
The information content of the distress acknowlwdgement is correct. (MF) [ETSI EN 300 338-2, n.6.9.2]			n.a
The distress acnowledgement correctly received on the TE (MF) [ETSI EN 300 338-2, n.6.9.2]			n.a
The operator is able to send distress relay (default on the 12 577.0 kHz) [ETSI EN 300 338-2, n.6.9.2]	X		
The information content of the distress relay is correct. [ETSI EN 300 338-2, n.6.9.2]		X	(46) (47)
The distress relay is correctly received on the TE [ETSI EN 300 338-2, n.6.9.2]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select new on hold receiving non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
On hold state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select procedure on hold [ETSI EN 300 338-2, n.6.9.2]	X		
the option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		

Make the receiving non distress automated procedure **active**. Verify that:

Item (Safety Individual call RT 2182)	Result		Com-ment
	YES	NO	
Active state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The information content of the received DSC message is displayed or available on the EUT [ETSI EN 300 338-2, n.6.9.2]	X		
the option to send able to comply" acknowledgement is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the 'unable to comply' acknowledgment option is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the 'able to comply with mode/frequency change' acknowledgment option is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the option to place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the EUT states that it is waiting for the operator to respond/select an acknowledgment, [ETSI EN 300 338-2, n.6.9.2]	X		
the time since receiving DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.9.2]	X		

Send on the frequency 2187.5 kHz 'able to comply' acknowledgement to TE. Verify that:

Item	Result		Com-ment
You can speak to the EUT from the TE (**2182 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**2182.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select on hold initiate receiving distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
The operator is able to select on hold receiving distress alert automated procedure [ETSI EN 300 338-2, n.6.9.2]	X		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is NOT available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**2182 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**2182.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Select new active receiving non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Option to send a ‘able to comply’ acknowledgement is available, [ETSI EN 300 338-2,n.6.9.2]	X		
Send a ‘able to comply’ acknowledgement, [ETSI EN 300 338-2,n.6.9.2)]	X		
You can speak to the EUT from the TE (**2182 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**2182.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Manually terminate the receiving distress automated procedure.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

c) <u>This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in receining distress automated procedure do not disturb the receiving distress automated procedure and that the received DSC message Safety Geographic area call properly initiates its own automated procedure on hold.</u>

Reset EUT into Standby. From TE send on the frequency 12 577.0 kHz **Distress call attempt**. Verify that automated procedure is initiated. Verify that:

00:00 Initiale Distress call MMSI 273000001 (Channel 1)
TestV12H_0133.scn

Item Initiate Distress call	Result		Com-ment
	YES	NO	
The EUT sounds the two tone alarm, [ETSI EN 300 338-2, n.6.5.5]	X		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	X		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	X		
Initiate receiving distress automated procedure [ETSI EN 300 338-2, n.6.5.5]	X		
On active state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
The operator is informed that the procedure is **<u>waiting for an acknowledgement</u>**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	X		
The frequency of subsequent communication is displayed (12 290 kHz), [ETSI EN 300 338-2, n.6.5.3,h]	X		
The frequency on which the DSC message have been received is displayed (12 577 kHz), [ETSI EN 300 338-2, n.6.5.3,h]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is NOT available (HF), [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is **<u>NOT</u>** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to place on hold the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

From TE send on the frequency 2187.5 kHz Safety Geographic area call RT CH 2182 kHz. Verify that:

02:00 from 002730000 (Channel 2)
TestV12H_0133.scn

Item **On hold procedure (Safety Geographic area call RT CH 2182)**	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the Routine alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2]	**X**		
The fact one is engaged in receiving a non distress procedure is displayed; [ETSI EN 300 338-2, n.6.9.2]	**X**		
On hold state of procedure is displayed, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The information content of the received DSC message is displayed or available on the EUT [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the time since receiving DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The frequency and mode of subsequent communication are displayed (2182.0 kHz) [ETSI EN 300 338-2, n.6.7.3,f(5)]	**X**		
The frequency on which the DSC message have been received is displayed (2187.5 kHz) [ETSI EN 300 338-2, n.6.7.3,f(6)]	**X**		
EUT should not changed channel (to CH 2182.0 kHz) [ETSI EN 300 338-2, n.6.7.6]	**X**		
You can speak to the EUT from the TE (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active receiving distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Active state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is NOT available (HF), [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to place on hold the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Select option to send distress acknowledgement (MF). Send DSC message. Repeat for distress relay to all ships. Verify that:

Item	Result		Com-ment
	YES	NO	
The operator is able to send distress acnowledgement (MF) [ETSI EN 300 338-2, n.6.9.2]	X		
The information content of the distress acnowledgement is correct (MF). [ETSI EN 300 338-2, n.6.9.2]	X		
The distress acnowledgement correctly received on the TE (MF) [ETSI EN 300 338-2, n.6.9.2]	X		
The operator is able to send distress relay (default 12 577.0 kHz) [ETSI EN 300 338-2, n.6.9.2]	X		
The information content of the distress relay is correct. [ETSI EN 300 338-2, n.6.9.2]	X		
The distress relay is correctly received on the TE [ETSI EN 300 338-2, n.6.9.2]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select new on hold receiving non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
On hold state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select procedure on hold [ETSI EN 300 338-2, n.6.9.2]	X		
the option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		

Make the receiving non distress automated procedure **active**. Verify that:

Item (Safety Geographic area call RT CH 2182)	Result		Com-ment
	YES	NO	
Active state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The information content of the received DSC message is displayed or available on the EUT [ETSI EN 300 338-2, n.6.9.2]	X		
the option to place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the time since receiving DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.9.2]	X		
You can speak to the EUT from the TE (**2182.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**2182.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select on hold initiate receiving distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
The operator is able to select on hold receiving distress alert automated procedure [ETSI EN 300 338-2, n.6.9.2]	X		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is NOT available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**2182.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**2182.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

(46) (E1099)

EUT has more than two automated procedures: any type(s) of automated procedure (not sending distress only) and receiving distress (active). From receiving distress automated procedure is transmitted the distress relay.

Since the trasmitting distress relay equipment changes the focus from the currently active procedure, the procedure in hold. Consequently during and after transmitting operator does not see top level information: the elapsed time, the stage, the operator options.

[ETSI EN 300 338-2, n.6.7.3]
[ETSI EN 300 338-2, n.6.9.2]

(47) (E1336)

The receiving distress automated procedure is active. Select the option "Relay".

In the set of available options for the operator is present option of selection of automated procedure from list. However, in actually this option is blocked.

[ETSI EN 300 338-2, n.6.9.2]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

10.3. Handling of received DSC messages that are pertinent to the station while the radio is engaged in the sending non distress automated procedure (initiate its new own automated procedure on hold)

[ETSI EN 300 338-2 (2010-02), n.6.9.2]

Scenario	Legend
	Is not required

Definition

This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the **sending non distress automated procedure** and that the received DSC message properly initiates its own automated procedure on hold.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) **This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the sending non distress automated procedure do not disturb the sending non distress automated procedure and that the received DSC message Distress call properly initiates its own automated procedure on hold.**

Reset EUT into Standby. Set non distress DSC frequencies ship 4208.0 kHz coast 4219.5 kHz. From EUT send on the frequency 4208.0 kHz **Individual Routine call RT (simplex CH 4146.0 kHz will be suggested by coast station TE) to TE**. Verify that automated procedure is initiated. Verify that:

00:00 Initiale Routine Individual Calll
4208.0 kHz

Item Initiate Routine Individual call	Result		Com-ment
	YES	NO	
The EUT indicates that it is transmitting, [ETSI EN 300 338-2, n.6.6.3,g(2)]	X		
The information content of the initial DSC message is displayed or available on the EUT, [ETSI EN 300 338-2, n.6.6.3,d]	X		
Upon completion of the transmission the EUT states that it is waiting for an acknowledgement, [ETSI EN 300 338-2, n.6.6.3,g(3)]	X		
The fact one is engaged in sending a non distress DSC message is displayed, [ETSI EN 300 338-2, n.6.6.3,a]	X		
The active state of sending non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.6.3,d]	X		
The time since sending the initial DSC message is displayed, [ETSI EN 300 338-2, n.6.6.3,b]	X		
The option to resend the initial DSC message is available, [ETSI EN 300 338-2, n.6.6.3,f] [ETSI EN 300 338-2, n.6.6.2,a(3),iv]	X		
The option to activate/place the procedure on hold is available, [ETSI EN 300 338-2, n.6.6.2,a(3),iv]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.6.2,a(3),iv]	X		
The information content of the initial DSC message is displayed or available on the; [ETSI EN 300 338-2, n.6.6.3,d]	X		
The elapsed time, stage, and operator options are visible at top level on the EUT, [ETSI EN 300 338-2, n.6.6.3]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

From TE send on the 12 577 kHz distress alert concerning a new distress event. Verify that:

02:00 Distress call from 273111111 (12 577.0 kHz)
TestV12H_0134.scn

Item On hold procedure (Distress call)	Result		Com-ment
	YES	NO	
The EUT sounds the two tone alarm, [ETSI EN 300 338-2, n.6.5.5]	X		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	X		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	X		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	X		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	X		
The frequency of subsequent communication is displayed (12 290 kHz), [ETSI EN 300 338-2, n.6.5.3,h]	X		
The frequency on which the DSC message have been received is displayed (12 577 kHz), [ETSI EN 300 338-2, n.6.5.3,h]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
EUT should not changed channel (to CH 12 290.0 kHz) [ETSI EN 300 338-2, n.6.7.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active sending non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Active state of sending non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.9.2]	X		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to resend the initial DSC message is available, [ETSI EN 300 338-2, n.6.6.3,f] [ETSI EN 300 338-2, n.6.6.2,a(3),iv]	X		

Select option to resend initial call. Send DSC message. Verify that:

Item	Result		Com-ment
	YES	NO	
The operator is able to resend initial call [ETSI EN 300 338-2, n.6.9.2]	X		
The information content of the initial call is correct. [ETSI EN 300 338-2, n.6.9.2]	X		

Send on the frequency 4219.5 kHz. from TE acknowledgement ‘enable to comply’ to EUT. Verify that:

Item	Result		Com-ment
	YES	NO	
You can speak to the EUT from the TE (4146.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (4146.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		

Select new on hold receiving distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select procedure on hold [ETSI EN 300 338-2, n.6.9.2]	X		
the option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
You can speak to the EUT from the TE (4146.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (4146.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Make the receiving distress automated procedure **active**. Verify that:

Item (Distress call)	Result		Com-ment
	YES	NO	
Active state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is not available, (HF) [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
the option to place the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (12 290.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (12 290.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select on hold initiate sending non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
The operator is able to select on hold sending non distress automated procedure [ETSI EN 300 338-2, n.6.9.2]	X		
On hold state of sending non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.9.2]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to resend the initial DSC message is **NOT** available, [ETSI EN 300 338-2, n.6.6.3,f] [ETSI EN 300 338-2, n.6.6.2,a(3),iv]	X		
You can speak to the EUT from the TE (12 290.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (12 290.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		

Select new active receiving distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Send a distress relay (default frequency 12 577.0 kHz), [ETSI EN 300 338-2,n.6.9.2]	X		
Send a distress alert acknowledgement (MF), [ETSI EN 300 338-2,n.6.9.2)]			n.a

Manually terminate the receiving distress automated procedure.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) **This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the receiving distress automated procedure do not disturb the sending non distress automated procedure and that the received DSC message Routine Individual call to EUT properly initiates its own automated procedure on hold.**

Reset EUT into Standby. Set non distress DSC frequencies ship 4208.0 kHz coast 4219.5 kHz. From EUT send on the frequency 4208.0 kHz **Individual Routine call RT (simplex CH 4146.0 kHz will be suggested by coast TE) to TE**. Verify that automated procedure is initiated. Verify that:

00:00 Initiale Routine Individual Calll
4208.0 kHz

Item Initiate Routine Individual call	Result		Com-ment
	YES	NO	
The EUT indicates that it is transmitting, [ETSI EN 300 338-2, n.6.6.3,g(2)]	X		
The information content of the initial DSC message is displayed or available on the EUT, [ETSI EN 300 338-2, n.6.6.3,d]	X		
Upon completion of the transmission the EUT states that it is waiting for an acknowledgement, [ETSI EN 300 338-2, n.6.6.3,g(3)]	X		
The fact one is engaged in sending a non distress DSC message is displayed, [ETSI EN 300 338-2, n.6.6.3,a]	X		
The active state of sending non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.6.3,d]	X		
The time since sending the initial DSC message is displayed, [ETSI EN 300 338-2, n.6.6.3,b]	X		
The option to resend the initial DSC message is available, [ETSI EN 300 338-2, n.6.6.3,f] [ETSI EN 300 338-2, n.6.6.2,a(3),iv]	X		
The option to activate/place the procedure on hold is available, [ETSI EN 300 338-2, n.6.6.2,a(3),iv]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.6.2,a(3),iv]	X		
The information content of the initial DSC message is displayed or available on the; [ETSI EN 300 338-2, n.6.6.3,d]	X		
The elapsed time, stage, and operator options are visible at top level on the EUT, [ETSI EN 300 338-2, n.6.6.3]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

From TE send on the frequency 4219.5 kHz Routine Individual call addressed to the EUT RT simplex CH 4149.0 kHz. Verify that:

02:00 from 002730000 (4219.5 kHz)
TestV12H_0135.scn

Item **On hold procedure (Routine Individual call RT CH 4149)**	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the Routine alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2]	**X**		
The fact one is engaged in receiving a non distress procedure is displayed; [ETSI EN 300 338-2, n.6.9.2]	**X**		
On hold state of procedure is displayed, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The information content of the received DSC message is displayed or available on the EUT [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to send able to comply" acknowledgement is **NOT** available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the 'unable to comply' acknowledgment option is **NOT** available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the 'able to comply with mode/frequency change' acknowledgment option is **NOT** available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the EUT states that it is waiting for the operator to respond/select an acknowledgment, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the time since receiving DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.9.2]	**X**		
EUT should not changed channel (to CH 4149.0 kHz) [ETSI EN 300 338-2, n.6.7.6]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active sending non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Active state of sending non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.9.2]	X		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to resend the initial DSC message is available, [ETSI EN 300 338-2, n.6.6.3,f] [ETSI EN 300 338-2, n.6.6.2,a(3),iv]	X		

Select option to resend initial call. Send DSC message. Verify that:

Item	Result		Com-ment
	YES	NO	
The operator is able to resend initial call [ETSI EN 300 338-2, n.6.9.2]	X		
The information content of the initial call is correct. [ETSI EN 300 338-2, n.6.9.2]	X		

Send on the frequency 4219.5 kHz. from TE acknowledgement ‘enable to comply’ to EUT. Verify that:

Item	Result		Com-ment
	YES	NO	
You can speak to the EUT from the TE (4146.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (4146.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		

Select new on hold receiving non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
On hold state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select procedure on hold [ETSI EN 300 338-2, n.6.9.2]	X		
the option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Make the receiving non distress automated procedure **active**. Verify that:

Item On hold procedure (Routine Individual call RT CH 4149)	Result		Com-ment
	YES	NO	
Active state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The information content of the received DSC message is displayed or available on the EUT [ETSI EN 300 338-2, n.6.9.2]	X		
the option to send able to comply" acknowledgement is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the 'unable to comply' acknowledgment option is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the 'able to comply with mode/frequency change' acknowledgment option is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the option to place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the EUT states that it is waiting for the operator to respond/select an acknowledgment, [ETSI EN 300 338-2, n.6.9.2]	X		
the time since receiving DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.9.2]	X		

Send on the frequency 4219.5 kHz from EUT acknowledgement to 'enable to comply' TE. Verify that:

Item On hold procedure (Routine Individual call RT CH 4149)	Result		Com-ment
	YES	NO	
You can speak to the EUT from the TE (4149.0 kHz), [ETSI EN 300 338-2, n.6.5.6]		X	(48)
You can speak to the TE from the EUT (4149.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select on hold initiate sending non distress automated procedure. Verify that:

Item	Result		Comment
	YES	NO	
The operator is able to select on hold sending non distress automated procedure [ETSI EN 300 338-2, n.6.9.2]	X		
On hold state of sending non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.9.2]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to resend the initial DSC message is **NOT** available, [ETSI EN 300 338-2, n.6.6.3,f] [ETSI EN 300 338-2, n.6.6.2,a(3),iv]	X		
You can speak to the EUT from the TE (4149.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (4149.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		

Select new active receiving non distress automated procedure. Verify that:

Item	Result		Comment
	YES	NO	
Resend option is available, [ETSI EN 300 338-2,n.6.9.2)]	X		
You can speak to the EUT from the TE (4149.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (4149.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		

Manually terminate the receiving distress automated procedure.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

c) <u>This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in sending non distress automated procedure do not disturb the sending non distress automated procedure and that the received DSC message Safety Geographic area call properly initiates its own automated procedure on hold.</u>

Reset EUT into Standby. Set non distress DSC frequencies ship 4208.0 kHz coast 4219.5 kHz. From EUT send on the frequency 4208.0 kHz **Individual Routine call RT (simplex CH 4146.0 kHz well be suggested by coast TE) to TE**. Verify that automated procedure is initiated. Verify that:

00:00 Initiale Routine Individual Calll
4208.0 kHz

Item Initiate Routine Individual call	Result		Com-ment
	YES	NO	
The EUT indicates that it is transmitting, [ETSI EN 300 338-2, n.6.6.3,g(2)]	X		
The information content of the initial DSC message is displayed or available on the EUT, [ETSI EN 300 338-2, n.6.6.3,d]	X		
Upon completion of the transmission the EUT states that it is waiting for an acknowledgement, [ETSI EN 300 338-2, n.6.6.3,g(3)]	X		
The fact one is engaged in sending a non distress DSC message is displayed, [ETSI EN 300 338-2, n.6.6.3,a]	X		
The active state of sending non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.6.3,d]	X		
The time since sending the initial DSC message is displayed, [ETSI EN 300 338-2, n.6.6.3,b]	X		
The option to resend the initial DSC message is available, [ETSI EN 300 338-2, n.6.6.3,f] [ETSI EN 300 338-2, n.6.6.2,a(3),iv]	X		
The option to activate/place the procedure on hold is available, [ETSI EN 300 338-2, n.6.6.2,a(3),iv]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.6.2,a(3),iv]	X		
The information content of the initial DSC message is displayed or available on the; [ETSI EN 300 338-2, n.6.6.3,d]	X		
The elapsed time, stage, and operator options are visible at top level on the EUT, [ETSI EN 300 338-2, n.6.6.3]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

From TE send on the frequency 8414.5 kHz Safety Geographic area call RT CH 8291.0 kHz. Verify that:

02:00 from 002730000 (8414.5 kHz)
TestV12H_0136.scn

Item **On hold procedure (Safety Geographic area call RT CH 8291)**	Result		Com-ment
	YES	**NO**	
The EUT sounds the Routine alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2]	**X**		
The fact one is engaged in receiving a non distress procedure is displayed; [ETSI EN 300 338-2, n.6.9.2]	**X**		
On hold state of procedure is displayed, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The information content of the received DSC message is displayed or available on the EUT [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the time since receiving DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.9.2]	**X**		
EUT should not changed channel (to CH 8291.0 kHz) [ETSI EN 300 338-2, n.6.7.6]	**X**		

Select current active sending non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	**NO**	
Active state of sending non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	**X**		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	**X**		
The option to resend the initial DSC message is available, [ETSI EN 300 338-2, n.6.6.3,f] [ETSI EN 300 338-2, n.6.6.2,a(3),iv]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select option to resend initial call. Send DSC message. Verify that:

Item	Result		Com-ment
	YES	NO	
The operator is able to resend initial call [ETSI EN 300 338-2, n.6.9.2]	X		
The information content of the initial call is correct. [ETSI EN 300 338-2, n.6.9.2]	X		

Send on the frequency 4219.5 kHz. from TE acknowledgement to EUT. Verify that:

You can speak to the EUT from the TE (4146.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (4146.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		

Select new on hold receiving non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
On hold state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select procedure on hold [ETSI EN 300 338-2, n.6.9.2]	X		
the option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Make the receiving non distress automated procedure **active**. Verify that:

Item (Safety Geographic area call RT 8291)	Result YES	Result NO	Comment
Active state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The information content of the received DSC message is displayed or available on the EUT [ETSI EN 300 338-2, n.6.9.2]	X		
the option to place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the time since receiving DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.9.2]	X		
You can speak to the EUT from the TE (**8291.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**8291.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Select on hold initiate sending non distress automated procedure. Verify that:

Item	Result YES	Result NO	Comment
The operator is able to select on hold sending non distress automated procedure [ETSI EN 300 338-2, n.6.9.2]	X		
On hold state of sending non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.9.2]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to resend the initial DSC message is **NOT** available, [ETSI EN 300 338-2, n.6.6.3,f] [ETSI EN 300 338-2, n.6.6.2,a(3),iv]	X		
You can speak to the EUT from the TE (**8291.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**8291.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

(48) (E1104)
EUT has two automated procedures: sending non distress automated procedure (on hold) and receiving non distress automated procrdure (active).
During the sending acknowledgement from the receiving non distress automated procedure does not display the transmission DSC frequency.

[ETSI EN 300 338-2, n.6.7.3]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

10.4. Handling of received DSC messages that are pertinent to the station while the radio is engaged in the receiving non distress automated procedure (initiate its new own automated procedure on hold)

[ETSI EN 300 338-2 (2010-02), n.6.9.2]

Scenario	Legend
	Is not required

Definition

This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the **receiving non distress automated procedure** and that the received DSC message properly initiates its own automated procedure on hold.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) **This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the receiving non distress automated procedure do not disturb the receiving non distress automated procedure and that the received DSC message Distress call concerning a new distress event properly initiates its own automated procedure on hold.**

Reset EUT into Standby. From TE send on the frequency 6312.0 kHz **Geographic area Safety call RT 6215 kHz**. Verify that automated procedure is initiated. Verify that:

00:00 Initiale Safety Geographic area Call (6312 kHz)
TestV12H_0137.scn

Item Initiate Safety Geographic area Call RT CH 6215.0	Result		Com-ment
	YES	NO	
EUT sounds the routine alarm, [ETSI EN 300 338-2,n.6.7.5]	X		
the reason for and means to silence the alarm is displayed on the EUT, [ETSI EN 300 338-2,n.6.7.5]	X		
the fact one is engaged in receiving a non distress procedure is displayed; [ETSI EN 300 338-2,n.6.7.3,a]	X		
the time since receiving the DSC call is displayed, [ETSI EN 300 338-2, n.6.7.3,b]	X		
Active state of procedure is displayed, [ETSI EN 300 338-2, n.6.7.3,d]	X		
The information content of the received DSC message is displayed or available on the EUT; [ETSI EN 300 338-2, n.6.7.3,f]	X		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.7.2,g(1),iv]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.7.2,g(1),v]	X		
the EUT states is 'acknowledged', [ETSI EN 300 338-2, n.6.7.3,i]	X		
the time since receiving initial DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.7.3]	X		
You can speak to the EUT from the TE (**6215 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**6215 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

From TE send on the frequency 16 804.5 kHz distress alert. Verify that:

02:00 Distress call from 273111111 (16 804.5 kHz)
TestV12H_0137.scn

Item On hold procedure (Distress call)	Result		Com-ment
	YES	NO	
The EUT sounds the two tone alarm, [ETSI EN 300 338-2, n.6.5.5]	X		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	X		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	X		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	X		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	X		
The frequency of subsequent communication is displayed (16 420.0 kHz), [ETSI EN 300 338-2, n.6.5.3,h]	X		
The frequency on which the DSC message have been received is displayed (16 804.5 kHz), [ETSI EN 300 338-2, n.6.5.3,h]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**6215 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**6215 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active receiving non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Active state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to resend the identical acknowledgement is **available**, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to place on hold the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**6215 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**6215 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select new on hold receiving non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select procedure on hold [ETSI EN 300 338-2, n.6.9.2]	X		
the option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		

Make the receiving distress automated procedure **active**. Verify that:

Item On hold procedure (Distress call)	Result		Com-ment
	YES	NO	
Active state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is available, [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
the option to place the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**16 420 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**16 420 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select on hold initiate receiving non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
The operator is able to select on hold receiving distress alert automated procedure [ETSI EN 300 338-2, n.6.9.2]	X		
On hold state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**16 420 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**16 420 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Select option to acivate initiate receiving non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Active state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to activate or place the procedure on hold is **available**, [ETSI EN 300 338-2, n.6.7.2,g(2),ii]	X		
The option to place on hold the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**6 215 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**6 215 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Select new on hold receiving distress automated procedure.

Manually terminate the receiving distress automated procedure.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) **This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the receiving non distress automated procedure do not disturb the receiving non distress automated procedure and that the received DSC message Safety Individual call to EUT properly initiates its own automated procedure on hold.**

Reset EUT into Standby. From TE send on the 4207.5 **Individual Safety call RT CH 4125.0 kHz to TE**. Verify that automated procedure is initiated. Verify that:

00:00 Initiale Safety Individual Calll (4207.5 kHz)
TestV12H_0138.scn

Item Initiate Safety Individual Call RT CH 4125	Result		Com-ment
	YES	NO	
EUT sounds the routine alarm, [ETSI EN 300 338-2,n.6.7.5]	X		
the reason for and means to silence the alarm is displayed on the EUT, [ETSI EN 300 338-2,n.6.7.5]	X		
the fact one is engaged in receiving a non distress procedure is displayed; [ETSI EN 300 338-2,n.6.7.3,a]	X		
the time since receiving the DSC call is displayed, [ETSI EN 300 338-2, n.6.7.3,b]	X		
Active state of procedure is displayed, [ETSI EN 300 338-2, n.6.7.3,d]	X		
The information content of the received DSC message is displayed or available on the EUT; [ETSI EN 300 338-2, n.6.7.3,f]	X		
the option to send able to comply" acknowledgement is available, [ETSI EN 300 338-2, n.6.7.2,g(1),i]	X		
EUT should not changed channel (4125.0 kHz) [ETSI EN 300 338-2, n.6.7.6]	X		
the 'able to comply with mode/frequency change' acknowledgment option is available, [ETSI EN 300 338-2, n.6.7.2,g(1),ii]	X		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.7.2,g(1),iv]	X		
the 'unable to comply' acknowledgment option is available, [ETSI EN 300 338-2, n.6.7.2,g(1),iii]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.7.2,g(1),v]	X		
the EUT states that it is waiting for the operator to respond/select an acknowledgment, [ETSI EN 300 338-2, n.6.7.3,i]	X		
the time since receiving initial DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.7.3]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Acknowledge on the 4207.5 kHz the DSC message from the EUT with “able to comply". Verify that:

Item **Acknowledgement “able to comply”**	**Result**		**Com-ment**
	YES	**NO**	
the information content of the sent acknowledgment is displayed or available on the EUT, [ETSI EN 300 338-2, n.6.7.3,g]	**X**		
the EUT indicates that communications are ready, [ETSI EN 300 338-2, n.6.7.3,i(3)]	**X**		
the fact one is engaged in receiving a distress is displayed; [ETSI EN 300 338-2,n.6.7.3,a]	**X**		
the elapsed time since acknowledgement is displayed, [ETSI EN 300 338-2, n.6.7.3,c]	**X**		
Active state of procedure is displayed, [ETSI EN 300 338-2, n.6.7.3,d]	**X**		
the option to resend only the *identical* acknowledgement is available, [ETSI EN 300 338-2, n.6.7.2,g(2),i]	**X**		
The option to activate or place the procedure on hold is **available**, [ETSI EN 300 338-2, n.6.7.2,g(2),ii]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.7.2,g(2),iii]	**X**		
the information content displayed on the TE corresponds to that displayed on the EUT, [ETSI EN 300 338-2, n.6.7.3,g]	**X**		
the time since acknowledgment, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.7.3]	**X**		
If the DSC message requires subsequent communications, the general receiver and transmitter shall be tuned to the frequencies of the subsequent communications given in the acknowledgement [ETSI EN 300 338-2, n.6.7.6]	**X**		
You can speak to the EUT from the TE (**4125.0 kHz**),	**X**		
You can speak to the TE from the EUT (**4125.0 kHz**).	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

From TE send on the 2187.5 kHz Safety Individual call addressed to the EUT RT CH 2182 kHz. Verify that:

02:00 from 273111111 (2187.5 kHz)
TestV12H_0138.scn

Item **On hold procedure (Safety Individual call RT CH 2182)**	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the Routine alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2]	**X**		
The fact one is engaged in receiving a non distress procedure is displayed; [ETSI EN 300 338-2, n.6.9.2]	**X**		
On hold state of procedure is displayed, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The information content of the received DSC message is displayed or available on the EUT [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to send able to comply" acknowledgement is **NOT** available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the 'unable to comply' acknowledgment option is **NOT** available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the 'able to comply with mode/frequency change' acknowledgment option is **NOT** available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the EUT states that it is waiting for the operator to respond/select an acknowledgment, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the time since receiving DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.9.2]	**X**		
You can speak to the EUT from the TE (**4125.0 kHz**),	**X**		
You can speak to the TE from the EUT (**4125.0 kHz**).	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active receiving non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Active state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to place on hold the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to resend the identical acknowledgement is **available**, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**4125.0 kHz**),	X		
You can speak to the TE from the EUT (**4125.0 kHz**).	X		

Select option to resend. Send DSC message. Verify that:

Item	Result		Com-ment
	YES	NO	
The operator is able to resend acknowledgement [ETSI EN 300 338-2, n.6.9.2]	X		
The information content of the acknowledgement is correct. [ETSI EN 300 338-2, n.6.9.2]	X		
The acknowledgement correctly received on the TE [ETSI EN 300 338-2, n.6.9.2]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select new on hold receiving non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
On hold state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select procedure on hold [ETSI EN 300 338-2, n.6.9.2]	X		
the option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		

Make the receiving non distress automated procedure **active**. Verify that:

Item On hold procedure (Safety Individual call RT CH 2182)	Result		Com-ment
	YES	NO	
Active state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The information content of the received DSC message is displayed or available on the EUT [ETSI EN 300 338-2, n.6.9.2]	X		
the option to send able to comply" acknowledgement is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the 'unable to comply' acknowledgment option is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the 'able to comply with mode/frequency change' acknowledgment option is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the option to place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the EUT states that it is waiting for the operator to respond/select an acknowledgment, [ETSI EN 300 338-2, n.6.9.2]	X		
the time since receiving DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.9.2]	X		

Send on the frequency 2187.5 kHz. from EUT acknowledgement to 'enable to comply' TE. Verify that:

Item	Result		Com-ment
	YES	NO	
You can speak to the EUT from the TE (**2182.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**2182.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select on hold initiate receiving non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
The operator is able to select on hold receiving distress alert automated procedure [ETSI EN 300 338-2, n.6.9.2]	X		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is NOT available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is NOT available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**2182.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**2182.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Select new active receiving non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Option to send a ‘able to comply’ acknowledgement is available, [ETSI EN 300 338-2,n.6.9.2]	X		
Send a ‘able to comply’ acknowledgement, [ETSI EN 300 338-2,n.6.9.2)]	X		
You can speak to the EUT from the TE (**2182.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**2182.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Manually terminate the receiving distress automated procedure.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

c) **<u>This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in receining non distress automated procedure do not disturb the receiving non distress automated procedure and that the received DSC message Routine Group call properly initiates its own automated procedure on hold.</u>**

Reset EUT into Standby. From TE send on the 12 657.0 kHz **Routine Group call RT CH 12 353.0 kHz to TE**. Verify that automated procedure is initiated. Verify that:

00:00 Initiale Routine Group Call (12 657.0 kHz)
TestV12H_0139.scn

Item Initiate Routine Group Call RT CH 12 353	Result		Com-ment
	YES	NO	
EUT sounds the routine alarm, [ETSI EN 300 338-2,n.6.7.5]	X		
the reason for and means to silence the alarm is displayed on the EUT, [ETSI EN 300 338-2,n.6.7.5]	X		
the fact one is engaged in receiving a non distress procedure is displayed; [ETSI EN 300 338-2,n.6.7.3,a]	X		
the time since receiving the DSC call is displayed, [ETSI EN 300 338-2, n.6.7.3,b]	X		
Active state of procedure is displayed, [ETSI EN 300 338-2, n.6.7.3,d]	X		
The information content of the received DSC message is displayed or available on the EUT; [ETSI EN 300 338-2, n.6.7.3,f]	X		
The option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.7.2,g(1),iv]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.7.2,g(1),v]	X		
the time since receiving initial DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.7.3]	X		
You can speak to the EUT from the TE (**<u>12 353.0 kHz</u>**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**<u>12 353.0 kHz</u>**), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

From TE send on the frequency 12 577.0 kHz Safety geographic area call RT CH 12 290.0 kHz. Verify that:

02:00 from 273111111
TestV12H_0139.scn

Item **On hold procedure (Safety Geographic area call RT CH 12 290)**	Result		Com-ment
	YES	NO	
The EUT sounds the Routine alarm, [ETSI EN 300 338-2, n.6.5.5]	X		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	X		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2]	X		
The fact one is engaged in receiving a non distress procedure is displayed; [ETSI EN 300 338-2, n.6.9.2]	X		
On hold state of procedure is displayed, [ETSI EN 300 338-2, n.6.9.2]	X		
The information content of the received DSC message is displayed or available on the EUT [ETSI EN 300 338-2, n.6.9.2]	X		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the time since receiving DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.9.2]	X		
EUT should not changed channel (to CH 12 290.0 kHz) [ETSI EN 300 338-2, n.6.7.6]	X		
You can speak to the EUT from the TE (**12 353.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**12 353.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active receiving non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Active state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to place on hold the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to resend the identical acknowledgement is **available**, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**12 353.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**12 353.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Select new on hold receiving non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
On hold state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select procedure on hold [ETSI EN 300 338-2, n.6.9.2]	X		
the option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Make the receiving non distress automated procedure **active**. Verify that:

Item (Safety Geographic area call RT CH 12 290)	Result YES	Result NO	Comment
Active state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The information content of the received DSC message is displayed or available on the EUT [ETSI EN 300 338-2, n.6.9.2]	X		
the option to place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the time since receiving DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.9.2]	X		
You can speak to the EUT from the TE (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Select on hold initiate receiving non distress automated procedure. Verify that:

Item	Result YES	Result NO	Comment
The operator is able to select on hold receiving distress alert automated procedure [ETSI EN 300 338-2, n.6.9.2]	X		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Select new active receiving non distress automated procedure. Verify that:

Manually terminate the receiving distress automated procedure.

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

10.5. Handling of received DSC messages that are pertinent to the station while the radio is engaged in the communications automated procedure (initiate its new own automated procedure on hold)

[ETSI EN 300 338-2 (2010-02), n.6.9.2]

Scenario	Legend
	Is not required

Definition

This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the **communications automated procedure** do not disturb the communications, and that the received DSC message properly initiates its own automated procedure on hold.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

a) **This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the communications automated procedure do not disturb the communications automated procedure and that the received DSC message Distress call properly initiates its own automated procedure on hold.**

Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT select the new working simplex channel 6224.0 kHz. Verify that:

Item	Result		Com-ment
	YES	NO	
The fact one is engaged in a communications procedure is displayed; [ETSI EN 300 338-2, n.6.8.3,a]	X		
The indication of whether the procedure is on hold or is active are displayed, [ETSI EN 300 338-2, n.6.8.3,b]	X		
The channel of the communication is displayed, [ETSI EN 300 338-2, n.6.8.3,c]	X		
The operator options are displayed, [ETSI EN 300 338-2, n.6.8.3,d]	X		
Self MMSI information is displayed. [ETSI EN 300 338-2, n.6.8.3,e]	X		
The latest known position of the vessel and the origin of the position are displayed, [ETSI EN 300 338-2, n.6.8.3,f]	X		
The UTC time of the position is displayed, [ETSI EN 300 338-2, n.6.8.3,g]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.8.2,c(1)]	X		
The option to toggle between activating and placing the procedure on hold is available, [ETSI EN 300 338-2, n.6.8.2,c(2)]	X		
any other options necessary for the traffic mode being handled are available, [ETSI EN 300 338-2, n.6.8.2,c(3)]	X		
you can speak to the EUT from the TE (**6224.0 kHz**), [ETSI EN 300 338-2, n.6.8.5]	X		
you can speak to the TE from the EUT (**6224.0 kHz**). [ETSI EN 300 338-2, n.6.8.5]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

From TE send on the 6312.0 kHz distress alert RT 6215 kHz. Verify that:

02:00 Distress call from 273111111 (6312.0 kHz)
TestV12H_140.scn

Item On hold procedure (Distress call)	Result		Com-ment
	YES	NO	
The EUT sounds the two tone alarm, [ETSI EN 300 338-2, n.6.5.5]	X		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	X		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	X		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	X		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	X		
The frequency of subsequent communication is displayed (6215.0 kHz), [ETSI EN 300 338-2, n.6.5.3,h]	X		
The frequency on which the DSC message have been received is displayed (6312.0 kHz), [ETSI EN 300 338-2, n.6.5.3,h]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
you can speak to the EUT from the TE (**6224.0 kHz**), [ETSI EN 300 338-2, n.6.8.5]	X		
you can speak to the TE from the EUT (**6224.0 kHz**). [ETSI EN 300 338-2, n.6.8.5]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active communications automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
The fact one is engaged in a communications procedure is displayed; [ETSI EN 300 338-2, n.6.8.3,a]	X		
The indication of whether the procedure is on hold or is active are displayed, [ETSI EN 300 338-2, n.6.8.3,b]	X		
The channel of the communication is displayed, [ETSI EN 300 338-2, n.6.8.3,c]	X		
The operator options are displayed, [ETSI EN 300 338-2, n.6.8.3,d]	X		
Self MMSI information is displayed. [ETSI EN 300 338-2, n.6.8.3,e]	X		
The latest known position of the vessel and the origin of the position are displayed, [ETSI EN 300 338-2, n.6.8.3,f]	X		
The UTC time of the position is displayed, [ETSI EN 300 338-2, n.6.8.3,g]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.8.2,c(1)]	X		
The option to toggle between activating and placing the procedure on hold is available, [ETSI EN 300 338-2, n.6.8.2,c(2)]	X		
any other options necessary for the traffic mode being handled are available, [ETSI EN 300 338-2, n.6.8.2,c(3)]	X		
you can speak to the EUT from the TE (**6224.0 kHz**), [ETSI EN 300 338-2, n.6.8.5]	X		
you can speak to the TE from the EUT (**6224.0 kHz**). [ETSI EN 300 338-2, n.6.8.5]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select new on hold receiving distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select procedure on hold [ETSI EN 300 338-2, n.6.9.2]	X		
the option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		

Make the receiving distress automated procedure **active**. Verify that:

Item (Distress call)	Result		Com-ment
	YES	NO	
Active state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is available, [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
the option to place the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
you can speak to the EUT from the TE (**6215.0 kHz**), [ETSI EN 300 338-2, n.6.8.5]	X		
you can speak to the TE from the EUT (**6215.0 kHz**). [ETSI EN 300 338-2, n.6.8.5]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select on hold initiate communications automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
The operator is able to select on hold communications automated procedure [ETSI EN 300 338-2, n.6.9.2]	X		
On hold state of communication automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The channel of the communication is displayed, [ETSI EN 300 338-2, n.6.8.3,c]	X		
The operator options are displayed, [ETSI EN 300 338-2, n.6.8.3,d]	X		
Self MMSI information is displayed. [ETSI EN 300 338-2, n.6.8.3,e]	X		
The latest known position of the vessel and the origin of the position are displayed, [ETSI EN 300 338-2, n.6.8.3,f]	X		
The UTC time of the position is displayed, [ETSI EN 300 338-2, n.6.8.3,g]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.8.2,c(1)]	X		
The option to toggle between activating and placing the procedure on hold is available, [ETSI EN 300 338-2, n.6.8.2,c(2)]	X		
you can speak to the EUT from the TE (**6215.0 kHz**), [ETSI EN 300 338-2, n.6.8.5]	X		
you can speak to the TE from the EUT (**6215.0 kHz**). [ETSI EN 300 338-2, n.6.8.5]	X		

Select new active receiving distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Send a distress relay, [ETSI EN 300 338-2,n.6.9.2]	X		
Send a distress alert acknowledgement (MF), [ETSI EN 300 338-2,n.6.9.2)]	X		

Manually terminate the receiving distress automated procedure.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) **This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the communications automated procedure do not disturb the communications automated procedure and that the received DSC message Routine Individual call to EUT properly initiates its own automated procedure on hold.**

Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT select the new working simplex channel 6224.0 kHz. Verify that:

Item	Result		Com-ment
	YES	NO	
The fact one is engaged in a communications procedure is displayed; [ETSI EN 300 338-2, n.6.8.3,a]	X		
The indication of whether the procedure is on hold or is active are displayed, [ETSI EN 300 338-2, n.6.8.3,b]	X		
The channel of the communication is displayed, [ETSI EN 300 338-2, n.6.8.3,c]	X		
The operator options are displayed, [ETSI EN 300 338-2, n.6.8.3,d]	X		
Self MMSI information is displayed. [ETSI EN 300 338-2, n.6.8.3,e]	X		
The latest known position of the vessel and the origin of the position are displayed, [ETSI EN 300 338-2, n.6.8.3,f]	X		
The UTC time of the position is displayed, [ETSI EN 300 338-2, n.6.8.3,g]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.8.2,c(1)]	X		
The option to toggle between activating and placing the procedure on hold is available, [ETSI EN 300 338-2, n.6.8.2,c(2)]	X		
any other options necessary for the traffic mode being handled are available, [ETSI EN 300 338-2, n.6.8.2,c(3)]	X		
you can speak to the EUT from the TE (**6224.0 kHz**), [ETSI EN 300 338-2, n.6.8.5]	X		
you can speak to the TE from the EUT (**6224.0 kHz**). [ETSI EN 300 338-2, n.6.8.5]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

From TE send on the 8414.5 kHz Safety Individual call addressed to the EUT RT CH 8291.0 kHz. Verify that:

02:00 from 002730000 (8414.5 kHz)
TestV12H_0141.scn

Item **On hold procedure (Safety Individual call RT CH 8291)**	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the Routine alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2]	**X**		
The fact one is engaged in receiving a non distress procedure is displayed; [ETSI EN 300 338-2, n.6.9.2]	**X**		
On hold state of procedure is displayed, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The information content of the received DSC message is displayed or available on the EUT [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to send able to comply" acknowledgement is **NOT** available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the 'unable to comply' acknowledgment option is **NOT** available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the 'able to comply with mode/frequency change' acknowledgment option is **NOT** available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the EUT states that it is waiting for the operator to respond/select an acknowledgment, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the time since receiving DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.9.2]	**X**		
You can speak to the EUT from the TE (**6224.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (**6224.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active communications automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
The fact one is engaged in a communications procedure is displayed; [ETSI EN 300 338-2, n.6.8.3,a]	X		
The indication of whether the procedure is on hold or is active are displayed, [ETSI EN 300 338-2, n.6.8.3,b]	X		
The channel of the communication is displayed, [ETSI EN 300 338-2, n.6.8.3,c]	X		
The operator options are displayed, [ETSI EN 300 338-2, n.6.8.3,d]	X		
Self MMSI information is displayed. [ETSI EN 300 338-2, n.6.8.3,e]	X		
The latest known position of the vessel and the origin of the position are displayed, [ETSI EN 300 338-2, n.6.8.3,f]	X		
The UTC time of the position is displayed, [ETSI EN 300 338-2, n.6.8.3,g]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.8.2,c(1)]	X		
The option to toggle between activating and placing the procedure on hold is available, [ETSI EN 300 338-2, n.6.8.2,c(2)]	X		
any other options necessary for the traffic mode being handled are available, [ETSI EN 300 338-2, n.6.8.2,c(3)]	X		
you can speak to the EUT from the TE (**6224.0 kHz**), [ETSI EN 300 338-2, n.6.8.5]	X		
you can speak to the TE from the EUT (**6224.0 kHz**). [ETSI EN 300 338-2, n.6.8.5]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select new on hold receiving non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
On hold state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select procedure on hold [ETSI EN 300 338-2, n.6.9.2]	X		
the option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		

Make the receiving non distress automated procedure **active**.

Send on the frequency 8414.5 kHz. from EUT acknowledgement to 'enable to comply' TE. Verify that:

Item (Safety Individual call RT CH 8291)	Result		Com-ment
	YES	NO	
Active state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The information content of the received DSC message is displayed or available on the EUT [ETSI EN 300 338-2, n.6.9.2]	X		
the option to send able to comply" acknowledgement is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the 'unable to comply' acknowledgment option is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the 'able to comply with mode/frequency change' acknowledgment option is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the option to place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the EUT states that it is waiting for the operator to respond/select an acknowledgment, [ETSI EN 300 338-2, n.6.9.2]	X		
the time since receiving DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.9.2]	X		
You can speak to the EUT from the TE (**8291.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**8291.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select on hold initiate communications automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
The operator is able to select on hold communications automated procedure [ETSI EN 300 338-2, n.6.9.2]	X		
On hold state of communication automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The channel of the communication is displayed, [ETSI EN 300 338-2, n.6.8.3,c]	X		
The operator options are displayed, [ETSI EN 300 338-2, n.6.8.3,d]	X		
Self MMSI information is displayed. [ETSI EN 300 338-2, n.6.8.3,e]	X		
The latest known position of the vessel and the origin of the position are displayed, [ETSI EN 300 338-2, n.6.8.3,f]	X		
The UTC time of the position is displayed, [ETSI EN 300 338-2, n.6.8.3,g]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.8.2,c(1)]	X		
The option to toggle between activating and placing the procedure on hold is available, [ETSI EN 300 338-2, n.6.8.2,c(2)]	X		
You can speak to the EUT from the TE (**8291.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**8291.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Select new active receiving non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Option to resend a 'able to comply' acknowledgement is available, [ETSI EN 300 338-2,n.6.9.2]	X		
Resend a 'able to comply' acknowledgement, [ETSI EN 300 338-2,n.6.9.2)]	X		
You can speak to the EUT from the TE (**8291.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**8291.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Manually terminate the receiving non distress automated procedure.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

c) <u>This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in communications automated procedure do not disturb the communications automated procedure and that the received DSC message Safety All ships call properly initiates its own automated procedure on hold.</u>

Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT select the new working simplex channel 6224.0 kHz. Verify that:

Item	Result		Com-ment
	YES	NO	
The fact one is engaged in a communications procedure is displayed; [ETSI EN 300 338-2, n.6.8.3,a]	X		
The indication of whether the procedure is on hold or is active are displayed, [ETSI EN 300 338-2, n.6.8.3,b]	X		
The channel of the communication is displayed, [ETSI EN 300 338-2, n.6.8.3,c]	X		
The operator options are displayed, [ETSI EN 300 338-2, n.6.8.3,d]	X		
Self MMSI information is displayed. [ETSI EN 300 338-2, n.6.8.3,e]	X		
The latest known position of the vessel and the origin of the position are displayed, [ETSI EN 300 338-2, n.6.8.3,f]	X		
The UTC time of the position is displayed, [ETSI EN 300 338-2, n.6.8.3,g]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.8.2,c(1)]	X		
The option to toggle between activating and placing the procedure on hold is available, [ETSI EN 300 338-2, n.6.8.2,c(2)]	X		
any other options necessary for the traffic mode being handled are available, [ETSI EN 300 338-2, n.6.8.2,c(3)]	X		
you can speak to the EUT from the TE (**<u>6224.0 kHz</u>**), [ETSI EN 300 338-2, n.6.8.5]	X		
you can speak to the TE from the EUT (**<u>6224.0 kHz</u>**). [ETSI EN 300 338-2, n.6.8.5]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

From TE send on the 12577.0 kHz Safety Geographic area call RT CH 12 290.0 kHz. Verify that:

02:00 from 002730000 (12 577.0 kHz)
TestV12H_0142.scn

Item **On hold procedure (Safety Geographic area call RT CH 12290)**	Result		Com-ment
	YES	**NO**	
The EUT sounds the Routine alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2]	**X**		
The fact one is engaged in receiving a non distress procedure is displayed; [ETSI EN 300 338-2, n.6.9.2]	**X**		
On hold state of procedure is displayed, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The information content of the received DSC message is displayed or available on the EUT [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the time since receiving DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.9.2]	**X**		
EUT should not changed channel (to 12 290.0 kHz) [ETSI EN 300 338-2, n.6.7.6]	**X**		
you can speak to the EUT from the TE (**6224.0 kHz**), [ETSI EN 300 338-2, n.6.8.5]	**X**		
you can speak to the TE from the EUT (**6224.0 kHz**). [ETSI EN 300 338-2, n.6.8.5]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active communications automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
The fact one is engaged in a communications procedure is displayed; [ETSI EN 300 338-2, n.6.8.3,a]	X		
The indication of whether the procedure is on hold or is active are displayed, [ETSI EN 300 338-2, n.6.8.3,b]	X		
The channel of the communication is displayed, [ETSI EN 300 338-2, n.6.8.3,c]	X		
The operator options are displayed, [ETSI EN 300 338-2, n.6.8.3,d]	X		
Self MMSI information is displayed. [ETSI EN 300 338-2, n.6.8.3,e]	X		
The latest known position of the vessel and the origin of the position are displayed, [ETSI EN 300 338-2, n.6.8.3,f]	X		
The UTC time of the position is displayed, [ETSI EN 300 338-2, n.6.8.3,g]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.8.2,c(1)]	X		
The option to toggle between activating and placing the procedure on hold is available, [ETSI EN 300 338-2, n.6.8.2,c(2)]	X		
any other options necessary for the traffic mode being handled are available, [ETSI EN 300 338-2, n.6.8.2,c(3)]	X		
you can speak to the EUT from the TE (**6224.0 kHz**), [ETSI EN 300 338-2, n.6.8.5]	X		
you can speak to the TE from the EUT (**6224.0 kHz**). [ETSI EN 300 338-2, n.6.8.5]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select new on hold receiving non distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
On hold state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select procedure on hold [ETSI EN 300 338-2, n.6.9.2]	X		
the option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		

Make the receiving non distress automated procedure **active**. Verify that:

Item (Safety Geographic area call RT CH 12290)	Result		Com-ment
	YES	NO	
Active state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The information content of the received DSC message is displayed or available on the EUT [ETSI EN 300 338-2, n.6.9.2]	X		
the option to place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
the time since receiving DSC call, stage, and operator options are visible at top level, [ETSI EN 300 338-2, n.6.9.2]	X		
You can speak to the EUT from the TE (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select on hold initiate communications automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
The operator is able to select on hold communications automated procedure [ETSI EN 300 338-2, n.6.9.2]	X		
On hold state of communication automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The channel of the communication is displayed, [ETSI EN 300 338-2, n.6.8.3,c]	X		
The operator options are displayed, [ETSI EN 300 338-2, n.6.8.3,d]	X		
Self MMSI information is displayed. [ETSI EN 300 338-2, n.6.8.3,e]	X		
The latest known position of the vessel and the origin of the position are displayed, [ETSI EN 300 338-2, n.6.8.3,f]	X		
The UTC time of the position is displayed, [ETSI EN 300 338-2, n.6.8.3,g]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.8.2,c(1)]	X		
The option to toggle between activating and placing the procedure on hold is available, [ETSI EN 300 338-2, n.6.8.2,c(2)]	X		
You can speak to the EUT from the TE (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**12 290.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Select new active receiving non distress automated procedure.
Manually terminate the receiving non distress automated procedure.

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

10.6. Handling of received DSC messages that are pertinent to the station while the radio is engaged in the sending distress alert automated procedure (updating an existing automated procedure on hold)

[ETSI EN 300 338-2 (2010-02), n.6.9.2]

Scenario	Legend
TestV12H_0143.scn	*TestH_0N0E*

Definition

This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the **sending distress automated procedure (after acknowledge)** and that the received DSC message properly **updates** an automated procedure on hold.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) **This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in an acknowledged sent distress automated procedure do not disturb the sent distress automated procedure and that the received DSC message Distress call concerning other distress event properly updates automated procedure on hold.**

This test checks the facilites of on hold automated procedure before acknowledge of sending distress alert procedure.

Reset EUT into Standby. From TE send on the frequency 4207.5 kHz **Distress call**. Verify that EUT receiving distress automated procedure is initiated.

00:00 Distress call MMSI 273000001 (4207.5 kHz)
TestV12H_0143.scn

Item Distress call	Result		Com-ment
	YES	NO	
The EUT sounds the two tone alarm, [ETSI EN 300 338-2, n.6.5.5]	X		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	X		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	X		
Initiate the receiving distress automated procedure [ETSI EN 300 338-2, n.6.9.2,b]	X		
Active state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		

From EUT send default Distress call attempt.
Verify that:

02:00 Distress call (Default)

Item Initiale own Distress call	Result		Com-ment
	YES	NO	
Initiate the sending distress alert automated procedure [ETSI EN 300 338-2, n.6.9.2,b]	X		
The sub-stage of the procedure is “waiting for acknowledgement”, [ETSI EN 300 338-2, n.6.4.12]	X		
When initiating a sending distress automated procedure, automatic immediate termination of all other automated procedures (if any) is **encouraged** but not required. [Rec. ITU-R M.493-13, Ann.4, n.3.3.2]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

From TE send on the 4207.5 kHz the calls listed in the table witch pertinent to station, but not for the currently active sending distress alert automated procedure. Verify that:

TestV12H_0142.scn
00:04 (4207.5 kHz)

N	DSC sentence	Verify				Com-ment
		Procedure sub-stage	Alarm	Indica-tion	Logged	
1	Distress relay RT All ships (distress event for the receiving distress automated procedure)	"waiting for acknowled-gement"	No	No	Yes	
2	Distress acknowledgement (distress event for the receiving distress automated procedure)	"waiting for acknowled-gement"	No	No	Yes	

Item	Result		Com-ment
	YES	NO	
The sub-stage of the procedure should not be changed: "waiting for acknowledgement", [ETSI EN 300 338-2, n.6.4.12]	X		
The reception of the call should **NOT** sounds the alarm, [ETSI EN 300 338-2, n.6.4.8]	X		
The calls should be ignored and only recorded in the log, [ETSI EN 300 338-2, n.6.4.7] [ETSI EN 300 338-2, n.6.9.2]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) <u>This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in an acknowledged sent distress automated procedure do not disturb the sent distress automated procedure and that the received DSC message properly updates the automated procedure on hold.</u>

Reset EUT into Standby. From EUT send default **Distress call attempt**. Verify that automated procedure is initiated.

From TE send on the 2187.5 kHz the distress alert **<u>acknowledgement</u>**. Verify that:

Item Destress alert acknowledgement	Result		Com-ment
	YES	NO	
The sub-stage of the procedure should be: “alert acknowledged”, [ETSI EN 300 338-2, n.6.4.3]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

From TE send on the 4207.5 kHz distress alert concerning a new distress event. Verify that:

02:00 Distress call MMSI 273000001 (4207.5 kHz)
TestV12H_0144.scn

Item On hold procedure (Distress call)	Result		Com-ment
	YES	NO	
The EUT sounds the two tone alarm, [ETSI EN 300 338-2, n.6.5.5]	X		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	X		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	X		
Initiate their own automated procedures **on hold** [ETSI EN 300 338-2, n.6.5.5] [ETSI EN 300 338-2, n.6.9.2,b]	X		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (2182.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (2182.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active sending distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Active state of sending distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	X		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		

From TE send on the 4207.5 kHz the distress relay witch pertinent to procedure on hold, but not for the currently active sending distress alert automated procedure. Verify that:

04:00 Distress relay MMSI 273000001 (4207.5 kHz)
TestV12H_0144.scn

Item On hold procedure (Distress Relay to All ships)	Result		Com-ment
	YES	NO	
The EUT sounds the self-terminating alarm, [ETSI EN 300 338-2, n.6.5.5]	X		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (2182.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (2182.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active sending distress automated procedure. Verify that:

Item	Result		Com-ment
	YES	NO	
Active state of sending distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	X		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		

From TE send the distress acknowledgement witch pertinent to procedure on hold, but not for the currently active sending distress alert automated procedure. Verify that:

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

05:00 Distress acknowledgement MMSI 273000001 (4207.5 kHz)
TestV12H_0144.scn

Item On hold procedure (Distress Acknowledgement)	Result		Com-ment
	YES	NO	
The EUT sounds the distress ack alarm, [ETSI EN 300 338-2, n.6.5.5]	X		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	X		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	X		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
The operator is informed that the procedure is **acknowledged**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	X		
The elapsed time **sinc acknowledgement** is displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (2182.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (2182.0 kHz), [ETSI EN 300 338-2, n.6.5.6]	X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

10.7. Handling of received DSC messages that are pertinent to the station while the radio is engaged in the receiving distress automated procedure (updating an existing automated procedure on hold)

[ETSI EN 300 338-2 (2010-02), n.6.9.2]

Scenario	Legend
TestV12H_0145.scn	*TestH_0N0E*

Definition

This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the **receiving distress automated procedure** and that the received DSC message properly **updates** an automated procedure on hold.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) **This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the receiving distress automated procedure do not disturb the receiving distress automated procedure and that the received DSC messages properly updates automated procedure on hold.**

Reset EUT into Standby.

00:00 MMSI 273000001 (6312.0 kHz)
From TE send on the frequency 6312.0 kHz the distress call. Verify that receiving distress automated procedure **(1)** is initiated.

00:02 MMSI 273000002 (8414.5 kHz)
From TE send on the frequency 8414.5 kHz the second distress call concerning a new distress event. Verify that receiving distress automated procedure **(2)** is initiated.

03:00 MMSI 002730000 (12577.0 kHz)
From **EUT** send on the frequency 12 577.0 kHz Safety Individual call to ship TE RT CH 12290 kHz. Verify that sending non distress automated procedure **(3)** is initiated.

Select and **set active** state of receiving distress automated procedure **(1).** Verify that:

Initiate Distress call Active receiving distress automated procedure (1)	Result		Com-ment
	YES	NO	
On **active** state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	X		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is available, [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to place on hold the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**6215.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**6215.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) From TE send on the 8414.5 kHz the distress relay witch pertinent to procedure (2) on hold, but not for the currently active receiving distress automated procedure (1). Verify that:

05:00 Distress relay MMSI 273000002 (8414.5 kHz)
TestV12H_0145.scn

(Distress Relay to All ships) **On hold receiving distress automated procedure (2)**	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the self-terminating alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	**X**		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	**X**		
the history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	**X**		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	**X**		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	**X**		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to send a distress alert acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	**X**		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
You can speak to the EUT from the TE (**6215.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (**6215.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	**X**		

Select current active receiving distress automated procedure. Verify that:

Item **Active receiving distress automated procedure (1)**	**Result**		**Com-ment**
	YES	**NO**	
Active state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	**X**		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

c) From TE send the distress relay witch pertinent to procedure on hold, but not for the currently active sending distress alert automated procedure. Verify that:

06:00 Distress acknowledgement MMSI 273000002 (8414.5 kHz)
TestV12H_0144.scn

(Distress Acknowledgement) On hold receiving distress automated procedure (2)	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the distress ack alarm, [ETSI EN 300 338-2, n.6.5.5]	X		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	X		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	X		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	X		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	X		
The history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	X		
The operator is informed that the procedure is **acknowledged**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	X		
The elapsed time **sinc acknowledgement** is displayed, [ETSI EN 300 338-2, n.6.5.3,c]	X		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to send a distress alert acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	X		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	X		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	X		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	X		
You can speak to the EUT from the TE (**6215.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		
You can speak to the TE from the EUT (**6215.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active receiving distress automated procedure. Verify that:

Item **Active receiving distress automated procedure (1)**	**Result**		**Com-ment**
	YES	**NO**	
Active state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	**X**		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		

d) From **TE** send on the 12577.0 kHz the Safety Individual **acknowledgement** "able to comply" with pertinent to procedure (3) on hold, but not for the currently active receiving distress automated procedure (1). Verify that:

07:00 (send from TE on the 12577.0 kHz)

Able to comply Acknowledgement RT CH 12 290 kHz **On hold sending non distress automated procedure (3)**	**Result**		**Com-ment**
	YES	**NO**	
the routine acknowledgement alarm sounds on the EUT (routine ack alarm), [ETSI EN 300 338-2, n.6.6.5]	**X**		
the reason for and means to silence the alarm is displayed on the EUT, [ETSI EN 300 338-2, n.6.6.5]	**X**		
The fact one is engaged in sending a non distress DSC message is displayed, [ETSI EN 300 338-2, n.6.6.3,a]	**X**		
On hold state of sending non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	**X**		
The time since being acknowledged is displayed, [ETSI EN 300 338-2, n.6.6.3,c]	**X**		
the information content of the acknowledgement is displayed or available on the EUT; [ETSI EN 300 338-2, n.6.6.3,e]	**X**		
the EUT indicates that it has been acknowledged;	**X**		
the option to resend the initial DSC message is **NOT** available on the EUT, [ETSI EN 300 338-2, n.6.6.2,b(4),i] [Rec.ITU-R M.493-13,Ann.4, n.3.2.2.2.2]	**X**		
the option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.6.2,b(4),ii]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.6.2,b(4),iii]	**X**		
the time since acknowledgement, stage, and operator options are visible at top level	**X**		
EUT no tune to the channel (12 290.0 kHz), [ETSI EN 300 338-2,n.6.6.6]	**X**		
you can speak to the TE from the EUT (**6215.0 kHz**),	**X**		
you can speak to the EUT from the TE (**6215.0 kHz**).	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active receiving distress automated procedure. Verify that:

Item **Active receiving distress automated procedure (1)**	**Result**		**Com-ment**
	YES	**NO**	
Active state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	**X**		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.5.2,g(5)]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

10.8. Handling of received DSC messages that are pertinent to the station while the radio is engaged in the sending non distress automated procedure (updating an existing automated procedure on hold)

[ETSI EN 300 338-2 (2010-02), n.6.9.2]

Scenario	Legend
TestV12H_0146.scn	*TestH_0N0E*

Definition

This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the **sending non distress automated procedure** and that the received DSC message properly **updates** an automated procedure on hold.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) **This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the sending non distress automated procedure do not disturb the sending non distress automated procedure and that the received DSC messages properly updates automated procedure on hold.**

Reset EUT into Standby.

Set EUT 6312.5 kHz, TE 6331.0 kHz.

00:00 Call to TE 002730001 on the 6312.5
From EUT send on the 6312.5 kHz the Routine Individual Call RT (CH 6224.0 kHz will be suggested by TE) to TE to MMSI 002730001. Verify that sending non distress automated procedure **(1)** is initiated:

00:01 Distress call from TE 273000003 on the 2187.5 kHz
From TE send on the 2187.5 kHz the distress call from MMSI 273000003. Verify that receiving distress automated procedure **(2)** is initiated.

00:02 Call to TE 273000002 on the 12 577.0 kHz
From EUT send on the 12577.0 kHz second Safety Individual call RT CH 12 353.0 kHz to TE MMSI 273000002. Verify that sending non distress automated procedure **(3)** is initiated.

Select and **set active** state of sending non distress automated procedure **(1).**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

From TE send on the frequency 6331.0 kHz the Routine Individual **acknowledgement** "able to comply" with pertinent to the currently active receiving distress automated procedure (1). Verify that:

00:03

Able to comply Acknowledgement RT CH 6224 Active sending non distress automated procedure (1)	**Result**		**Com-ment**
	YES	**NO**	
the routine acknowledgement alarm sounds on the EUT (routine ack alarm), [ETSI EN 300 338-2, n.6.6.5]	**X**		
the reason for and means to silence the alarm is displayed on the EUT, [ETSI EN 300 338-2, n.6.6.5]	**X**		
The fact one is engaged in sending a non distress DSC message is displayed, [ETSI EN 300 338-2, n.6.6.3,a]	**X**		
Active state of sending non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	**X**		
The time since being acknowledged is displayed, [ETSI EN 300 338-2, n.6.6.3,c]	**X**		
the information content of the acknowledgement is displayed or available on the EUT; [ETSI EN 300 338-2, n.6.6.3,e]	**X**		
the EUT indicates that it has been acknowledged;	**X**		
the option to resend the initial DSC message is not available on the EUT, [ETSI EN 300 338-2, n.6.6.2,b(4),i] [Rec.ITU-R M.493-13,Ann.4, n.3.2.2.2.2]	**X**		
the option to place on hold the procedure is available, [ETSI EN 300 338-2, n.6.6.2,b(4),ii]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.6.2,b(4),iii]	**X**		
the time since acknowledgement, stage, and operator options are visible at top level	**X**		
you can speak to the TE from the EUT (**6224.0 kHz**),	**X**		
you can speak to the EUT from the TE (**6224.0 kHz**).	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) From TE send on the frequency 2187.5 kHz the distress relay witch pertinent to procedure (2) on hold, but not for the currently active sending non distress automated procedure (1). Verify that:

00:07 Distress relay MMSI 273000003 on the 2187.5 kHz

(Distress Relay to All ships) **On hold receiving distress automated procedure (2)**	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the self-terminating alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	**X**		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	**X**		
the history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	**X**		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	**X**		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	**X**		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to send a distress alert acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	**X**		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
You can speak to the EUT from the TE (**6224.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (**6224.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	**X**		

Select current active sending non distress automated procedure. Verify that:

Item **Active sending non distress automated procedure (1)**	**Result**		**Com-ment**
	YES	**NO**	
Active state of sending non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.6.3]	**X**		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.6.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
you can speak to the TE from the EUT (**6224.0 kHz**),	**X**		
you can speak to the EUT from the TE (**6224.0 kHz**).	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

c) From TE send on the frequency 2187.5 kHz the distress acknowledgement witch pertinent to procedure on hold, but not for the currently active sending distress alert automated procedure. Verify that:

00:09 Distress acknowledgement MMSI 273000003 on the 2187.5 kHz

(Distress Acknowledgement) On hold receiving distress automated procedure (2)	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the distress ack alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	**X**		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	**X**		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	**X**		
The history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	**X**		
The operator is informed that the procedure is **acknowledged**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	**X**		
The elapsed time **sinc acknowledgement** is displayed, [ETSI EN 300 338-2, n.6.5.3,c]	**X**		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to send a distress alert acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	**X**		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
You can speak to the EUT from the TE (**6224.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (**6224.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active receiving distress automated procedure. Verify that:

Item **Active sending non distress automated procedure (1)**	**Result**		**Com-ment**
	YES	**NO**	
Active state of sending non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.6.3]	**X**		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.6.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
you can speak to the TE from the EUT (**6224.0 kHz**),	**X**		
you can speak to the EUT from the TE (**6224.0 kHz**).	**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

10.9. Handling of received DSC messages that are pertinent to the station while the radio is engaged in the receiving non distress automated procedure (updating an existing automated procedure on hold)

[ETSI EN 300 338-2 (2010-02), n.6.9.2]

Scenario	Legend
TestV12H_0147.scn	*TestH_0N0E*

Definition

This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the **receiving non distress automated procedure** and that the received DSC message properly **updates** an automated procedure on hold.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) **This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the receiving non distress automated procedure do not disturb the receiving non distress automated procedure and that the received DSC messages properly updates automated procedure on hold.**

Reset EUT into Standby.

00:00 Geographic area call (16804.5 kHz)
From TE send on the 16 804.5 kHz the Urgency Geographic area call RT CH 16420.0 kHz. Verify that receiving non distress automated procedure **(1)** is initiated:

00:01 Distress call MMSI 273000003 call (6312.0 kHz)
From TE send on the 6312.0 kHz the second distress call concerning a new distress event. Verify that receiving distress automated procedure **(2)** is initiated.

From EUT send on the frequency 4207.5 Safety Individual call to TE RT CH 4125.0 kHz. Verify that sending non distress automated procedure **(3)** is initiated.

Select and set **active** state of receiving non distress automated procedure **(1).** Verify that:

00:00 Geographic area call (16804.5 kHz)
TestV12H_0147.scn

Initiate Urgency Geographic area call RT CH 16420 Active receiving distress automated procedure (1)	**Result**		**Com-ment**
	YES	**NO**	
On **active** state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.7.3]	**X**		
The information content of the received DSC message is displayed, [ETSI EN 300 338-2,n.6.7.3]	**X**		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.7.3]	**X**		
The option to place on hold the procedure is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.7.3]	**X**		
You can speak to the EUT from the TE (**16 420.0 kHz**), [ETSI EN 300 338-2, n.6.7.6]	**X**		
You can speak to the TE from the EUT (**16 420.0 kHz**), [ETSI EN 300 338-2, n.6.7.6]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) From TE send on the frequency 6312.0 kHz the distress relay witch pertinent to procedure (2) on hold, but not for the currently active receiving distress automated procedure (1). Verify that:

03:00 Distress relay call (6312.0 kHz)
TestV12H_0147.scn

(Distress Relay to All ships) **On hold receiving distress automated procedure (2)**	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the self-terminating alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	**X**		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	**X**		
the history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	**X**		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	**X**		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	**X**		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to send a distress alert acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	**X**		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
You can speak to the EUT from the TE (**16 420.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (**16 420.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active receiving non distress automated procedure. Verify that:

Item **Active receiving non distress automated procedure (1)**	**Result**		**Com-ment**
	YES	**NO**	
Active state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
You can speak to the EUT from the TE (**16 420.0 kHz**), [ETSI EN 300 338-2, n.6.9.2]	**X**		
You can speak to the TE from the EUT (**16 420.0 kHz**), [ETSI EN 300 338-2, n.6.9.2]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

c) From TE send on the frequency 6312.0 kHz the distress acknowledgement witch pertinent to procedure on hold, but not for the currently active sending distress alert automated procedure. Verify that:

05:00 Distress acknowledgement (6312.0 kHz)
TestV12H_0147.scn

(Distress Acknowledgement) On hold receiving distress automated procedure (2)	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the distress ack alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	**X**		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	**X**		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	**X**		
The history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	**X**		
The operator is informed that the procedure is **acknowledged**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	**X**		
The elapsed time **sinc acknowledgement** is displayed, [ETSI EN 300 338-2, n.6.5.3,c]	**X**		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to send a distress alert acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	**X**		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
You can speak to the EUT from the TE (**16 420.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (**16 420.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active receiving non distress automated procedure. Verify that:

Item **Active receiving non distress automated procedure (1)**	**Result**		**Com-ment**
	YES	**NO**	
Active state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
You can speak to the EUT from the TE (**16 420.0 kHz**), [ETSI EN 300 338-2, n.6.9.2]	**X**		
You can speak to the TE from the EUT (**16 420.0 kHz**), [ETSI EN 300 338-2, n.6.9.2]	**X**		

d) From TE send on the frequency 4207.5 kHz the Safety Individual **acknowledgement** "able to comply" with pertinent to procedure (3) on hold, but not for the currently active receiving distress automated procedure (1). Verify that:

Able to comply Acknowledgement RT CH 4125.0 kHz **On hold sending non distress automated procedure (3)**	**Result**		**Com-ment**
	YES	**NO**	
the routine acknowledgement alarm sounds on the EUT, [ETSI EN 300 338-2, n.6.6.5]	**X**		
the reason for and means to silence the alarm is displayed on the EUT, [ETSI EN 300 338-2, n.6.6.5]	**X**		
The fact one is engaged in sending a non distress DSC message is displayed, [ETSI EN 300 338-2, n.6.6.3,a]	**X**		
On hold state of sending non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	**X**		
The time since being acknowledged is displayed, [ETSI EN 300 338-2, n.6.6.3,c]	**X**		
the information content of the acknowledgement is displayed or available on the EUT; [ETSI EN 300 338-2, n.6.6.3,e]	**X**		
the EUT indicates that it has been acknowledged;	**X**		
the option to resend the initial DSC message is **NOT** available on the EUT, [ETSI EN 300 338-2, n.6.6.2,b(4),i] [Rec.ITU-R M.493-13,Ann.4, n.3.2.2.2.2]	**X**		
the option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.6.2,b(4),ii]	**X**		
the option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.6.2,b(4),iii]	**X**		
the time since acknowledgement, stage, and operator options are visible at top level	**X**		
EUT no tune to the channel (**4125.0 kHz**), [ETSI EN 300 338-2,n.6.6.6]	**X**		
you can speak to the TE from the EUT (**16 420.0 kHz**),	**X**		
you can speak to the EUT from the TE (**16 420.0 kHz**).	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active receiving non distress automated procedure. Verify that:

Item **Active receiving non distress automated procedure (1)**	**Result**		**Com-ment**
	YES	**NO**	
Active state of receiving non distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
you can speak to the TE from the EUT (**16 420.0 kHz**),	**X**		
you can speak to the EUT from the TE (**16 420.0 kHz**).	**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

10.10. Handling of received DSC messages that are pertinent to the station while the radio is engaged in the communications automated procedure (updating an existing automated procedure on hold)

[ETSI EN 300 338-2 (2010-02), n.6.9.2]

Scenario	Legend
TestV12H_0148.scn	*TestH_0N0E*

Definition

This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the **communications automated procedure do not disturb the communications** and that the received DSC message properly **updates** an automated procedure on hold.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) **This test checks that reception of DSC messages that are pertinent to the station while the station is engaged in the communications automated procedure do not disturb the communications automated procedure and that the received DSC messages properly updates automated procedure on hold.**

Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT select the new working simplex channel CH **4146.0 kHz**. Verify that communications automated procedure **(1)** is initiated.

00:01 Distress call from MMSI 273000003 (2187.5 kHz)
From TE send on the frequency **2187.5 kHz** the distress call. Verify that receiving distress automated procedure **(2)** is initiated.

00:02
From EUT send on the frequency **6312.0 kHz** Safety Individual call to TE RT CH 6215.0 kHz. Verify that sending non distress automated procedure **(3)** is initiated.

Select and set **active** state of communications automated procedure **(1).** Verify that:

Active communications procedure (1) RT CH 4146.0 kHz	Result		Com-ment
	YES	NO	
The fact one is engaged in a communications procedure is displayed; [ETSI EN 300 338-2, n.6.8.3,a]	X		
The indication of whether the procedure is on hold or is active are displayed, [ETSI EN 300 338-2, n.6.8.3,b]	X		
The channel of the communication is displayed, [ETSI EN 300 338-2, n.6.8.3,c]	X		
The operator options are displayed, [ETSI EN 300 338-2, n.6.8.3,d]	X		
Self MMSI information is displayed. [ETSI EN 300 338-2, n.6.8.3,e]	X		
The latest known position of the vessel and the origin of the position are displayed, [ETSI EN 300 338-2, n.6.8.3,f]	X		
The UTC time of the position is displayed, [ETSI EN 300 338-2, n.6.8.3,g]	X		
The option to terminate the procedure is available, [ETSI EN 300 338-2, n.6.8.2,c(1)]	X		
The option to toggle between activating and placing the procedure on hold is available, [ETSI EN 300 338-2, n.6.8.2,c(2)]	X		
any other options necessary for the traffic mode being handled are available, [ETSI EN 300 338-2, n.6.8.2,c(3)]	X		
you can speak to the EUT from the TE (**4146.0 kHz**), [ETSI EN 300 338-2, n.6.8.5]	X		
you can speak to the TE from the EUT (**4146.0 kHz**). [ETSI EN 300 338-2, n.6.8.5]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) From TE send the distress relay witch pertinent to procedure (2) on hold, but not for the currently active communications automated procedure (1). Verify that:

03:00 Distress relay MMSI 273000003 (2187.5 kHz)
TestV12H_0148.scn

(Distress Relay to All ships) On hold receiving distress automated procedure (2)	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the self-terminating alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	**X**		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	**X**		
the history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	**X**		
The operator is informed that the procedure is **waiting for an acknowledgement**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	**X**		
The elapsed time is appropriately displayed, [ETSI EN 300 338-2, n.6.5.3,c]	**X**		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to send a distress alert acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	**X**		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
You can speak to the EUT from the TE (**4146.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (**4146.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active communications automated procedure. Verify that:

Item **Active communications automated procedure (1)**	**Result**		**Com-ment**
	YES	**NO**	
Active state of communications automated procedure is displayed, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
You can speak to the EUT from the TE (**4146.0 kHz**), [ETSI EN 300 338-2, n.6.9.2]	**X**		
You can speak to the TE from the EUT (**4146.0 kHz**), [ETSI EN 300 338-2, n.6.9.2]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

c) From TE send the distress acknowledgement witch pertinent to procedure on hold, but not for the currently active sending distress alert automated procedure. Verify that:

05:00 Distress acknowledgement MMSI 273000003 (2187.5 kHz)
TestV12H_0148.scn

(Distress Acknowledgement) On hold receiving distress automated procedure (2)	**Result**		**Com-ment**
	YES	**NO**	
The EUT sounds the distress ack alarm, [ETSI EN 300 338-2, n.6.5.5]	**X**		
The reason for and means to silence the alarm is displayed, [ETSI EN 300 338-2, n.6.2.3]	**X**		
The alarm can only be silenced manually, [ETSI EN 300 338-2, n.6.5.5]	**X**		
On hold state of receiving distress automated procedure is displayed, [ETSI EN 300 338-2, n.6.5.3,d]	**X**		
The latest distress information (MMSI of vessel in distress, nature of distress, position, time of position, comms) is displayed and correct, [ETSI EN 300 338-2,n.6.5.3,e]	**X**		
The history of at least the received DSC messages reveals that the following have been received, [ETSI EN 300 338-2, n.6.5.3,k]	**X**		
The operator is informed that the procedure is **acknowledged**, [ETSI EN 300 338-2, n.6.5.3,l(3)]	**X**		
The elapsed time **sinc acknowledgement** is displayed, [ETSI EN 300 338-2, n.6.5.3,c]	**X**		
The option to send a distress relay is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to send a distress alert acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2)]	**X**		
The option to send a distress relay acknowledgement is **NOT** available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The option to activate the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
The elapsed time, stage, valid operator options, are visible at top level, [ETSI EN 300 338-2, n.6.5.3]	**X**		
You can speak to the EUT from the TE (**4146.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	**X**		
You can speak to the TE from the EUT (**4146.0 kHz**), [ETSI EN 300 338-2, n.6.5.6]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select current active communications automated procedure. Verify that:

Item **Active communications automated procedure (1)**	**Result**		**Com-ment**
	YES	**NO**	
Active state of communications automated procedure is displayed, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The operator is able to select current active procedure [ETSI EN 300 338-2, n.6.9.2]	**X**		
the option to activate or place the procedure on hold is available, [ETSI EN 300 338-2, n.6.9.2]	**X**		
The option to terminate the procedure is available, [ETSI EN 300 338-2,n.6.9.2]	**X**		
You can speak to the EUT from the TE (**4146.0 kHz**), [ETSI EN 300 338-2, n.6.9.2]	**X**		
You can speak to the TE from the EUT (**4146.0 kHz**), [ETSI EN 300 338-2, n.6.9.2]	**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

10.11. Unacknowledged test receiving automated procedure on hold tests

[ETSI EN 300 338-2, n.6.9.2]
[Rec. ITU-R M.493-13, Ann.4, n.3.3.4]

If the only remaining automated procedures present on the equipment are inactive or on hold, and there are automated procedures handling test, polling, or position requests and these procedures are setup to auto acknowledge, the equipment shall successively perform the auto acknowledgement and terminate these procedures.

[ETSI EN 300 338-2, n.6.9.2]

If any of these automated procedures is set to automatically acknowledge, it should automatically acknowledge and self terminate as soon as all remaining automated procedures are on hold.

[Rec. ITU-R M.493-13, Ann.4, n.3.3.4]

Scenario	**Legend**
TestV12H_0149.scn	*TestH_0N0E*

Definition

This test checks that the automated procedure handling a test that is set to auto-acknowledge does not auto-acknowledge until all other automated procedures are on hold.

Method of measurement and required results

a) Set the auto acknowledgement option to on for test on both the EUT and TE.

Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT select the new working channel CH **6234.0 kHz**. Verify that communications automated procedure **(1)** is initiated.

00:00 Test cal to EUT (12 577.0 kHz)
From TE send the test call addressed to the EUT. Verify that receiving non distress automated procedure **(2)** is initiated on hold.

From EUT send on the **8414.5 kHz** Safety Individual call to TE RT CH 8291.0 kHz. Verify that sending non distress automated procedure **(3)** is initiated.

Select and set **active** state of communications automated procedure **(1).** Terminate the current active communications procedure. Verify that:

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Receiving non distress automated procedure initiated by test call	**Result**		**Comment**
	YES	**NO**	
EUT shall successively perform the auto acknowledgement these procedure [ETSI EN 300 338-2, n.6.9.2]		**X**	(49)
EUT shall terminate these procedures. [ETSI EN 300 338-2, n.6.9.2]	**X**		

b) Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT select the new working channel CH **6234.0 kHz**. Verify that communications automated procedure **(1)** is initiated.

00:00 Test cal to EUT (12 577.0 kHz)
From TE send the test call addressed to the EUT. Verify that receiving non distress automated procedure **(2)** is initiated on hold.

From EUT send on the **8414.5 kHz** Safety Individual call to TE RT CH 8291.0 kHz. Verify that sending non distress automated procedure **(3)** is initiated.

Select and set **active** state of communications automated procedure **(1).** Place the current active communications procedure **on hold**. Verify that:

Receiving non distress automated procedure initiated by test call	**Result**		**Comment**
	YES	**NO**	
EUT shall successively perform the auto acknowledgement of the receiving non distress automated procedure initiated by test call [ETSI EN 300 338-2, n.6.9.2]		**X**	(49)
EUT shall terminate the receiving non distress automated procedure initiated by test call. [ETSI EN 300 338-2, n.6.9.2]	**X**		

c) Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT select the new working channel CH **6234.0 kHz**. Verify that communications automated procedure **(1)** is initiated.

From EUT send on the **8414.5 kHz** Safety Individual call to TE RT CH 8291.0 kHz. Verify that sending non distress automated procedure **(2)** is initiated. Place the procedure **on hold**.

00:00 Test cal to EUT (12 577.0 kHz)
From TE send on the 12 577.0 kHz the test call addressed to the EUT. Verify:

Receiving non distress automated procedure initiated by test call	**Result**		**Comment**
	YES	**NO**	
EUT shall successively perform the auto acknowledgement of the receiving non distress automated procedure initiated by test call [ETSI EN 300 338-2, n.6.9.2]	**X**		
EUT shall terminate the receiving non distress automated procedure initiated by test call. [ETSI EN 300 338-2, n.6.9.2]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

d) Set the auto acknowledgement option to OFF for test on both the EUT and TE.

Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT select the new working channel CH **6234.0 kHz**. Verify that communications automated procedure **(1)** is initiated.

00:00 Test cal to EUT (12 577.0 kHz)
From TE send the test call addressed to the EUT. Verify that receiving non distress automated procedure **(2)** is initiated on hold.

From EUT send on the **8414.5 kHz** Safety Individual call to TE RT CH 8291.0 kHz. Verify that sending non distress automated procedure **(3)** is initiated.

Select and set **active** state of communications automated procedure **(1).** Terminate the current active communications procedure. Verify that:

Receiving non distress automated procedure initiated by test call	**Result**		**Com-ment**
	YES	**NO**	
EUT shall **NOT** perform the auto acknowledgement the receiving non distress automated procedure initiated by test call. [ETSI EN 300 338-2, n.6.9.2]	**X**		
EUT shall **NOT** terminate the receiving non distress automated procedure initiated by test call. [ETSI EN 300 338-2, n.6.9.2]	**X**		

(49) (E663)
When the remaining automated procedures present on the equipment are inactive or on hold, and there are automated procedures handling test, polling, or position requests and these procedures are setup to auto acknowledge, the equipment does NOT perform the auto acknowledgement and terminate these procedures.

[ETSI EN 300 338-2, n.6.9.2]
[ITU-R M.493-13, Ann.4, n.3.3.4]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

10.12. Unacknowledged polling receiving automated procedure on hold tests

[ETSI EN 300 338-2, n.6.9.2]
[Rec. ITU-R M.493-13, Ann.4, n.3.3.4]

If the only remaining automated procedures present on the equipment are inactive or on hold, and there are automated procedures handling test, polling, or position requests and these procedures are setup to auto acknowledge, the equipment shall successively perform the auto acknowledgement and terminate these procedures.

[ETSI EN 300 338-2, n.6.9.2]

If any of these automated procedures is set to automatically acknowledge, it should automatically acknowledge and self terminate as soon as all remaining automated procedures are on hold.

[Rec. ITU-R M.493-13, Ann.4, n.3.3.4]

Scenario	Legend
TestV12H_0150.scn	*TestH_0N0E*

Definition

This test checks that the automated procedure handling a polling call that is set to auto-acknowledge does not auto-acknowledge until all other automated procedures are on hold.

Method of measurement and required results

Set the auto acknowledgement option to on for test on both the EUT and TE. Configure the TE with a coast station MMSI. Set frequencies EUT 2189.5 kHz TE 2177.0 kHz.

a) Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT select the new working channel CH **6234.0 kHz**. Verify that communications automated procedure **(1)** is initiated.

00:00 Polling cal to EUT (2177.0 kHz)
From TE send the polling call addressed to the EUT. Verify that receiving non distress automated procedure **(2)** is initiated on hold.
(EUT will NOT receive call if NO implement DSC routine watch)

From EUT send on the **8414.5 kHz** Safety Individual call to TE RT CH 8291.0 kHz. Verify that sending non distress automated procedure **(3)** is initiated.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Select and set **active** state of communications automated procedure **(1).** Terminate the current active communications procedure. Verify that:

Receiving non distress automated procedure Initiated by polling call	**Result**		**Com-ment**
	YES	**NO**	
EUT shall successively perform the auto acknowledgement procedure [ETSI EN 300 338-2, n.6.9.2]		**X**	(49)
EUT shall terminate these procedures. [ETSI EN 300 338-2, n.6.9.2]	**X**		

b) Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT select the new working channel CH **6234.0 kHz**. Verify that communications automated procedure **(1)** is initiated.

00:00 Polling cal to EUT (2177.0 kHz)
From TE send the polling call addressed to the EUT. Verify that receiving non distress automated procedure **(2)** is initiated on hold.
(EUT will NOT receive call if NO implement DSC routine watch)

From EUT send on the **8414.5 kHz** Safety Individual call to TE RT CH 8291.0 kHz. Verify that sending non distress automated procedure **(3)** is initiated.

Select and set **active** state of communications automated procedure **(1).** Place the current active communications procedure **on hold**. Verify that:

Receiving non distress automated procedure Initiated by polling call	**Result**		**Com-ment**
	YES	**NO**	
EUT shall successively perform the auto acknowledgement of the receiving non distress automated procedure initiated by polling call [ETSI EN 300 338-2, n.6.9.2]		**X**	(49)
EUT shall terminate the receiving non distress automated procedure initiated by polling call. [ETSI EN 300 338-2, n.6.9.2]	**X**		

c) Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT select the new working channel CH **6234.0 kHz**. Verify that communications automated procedure **(1)** is initiated.

From EUT send on the **8414.5 kHz** Safety Individual call to TE RT CH 8291.0 kHz. Verify that sending non distress automated procedure **(2)** is initiated. Place the procedure **on hold**.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

00:00 Pollingt cal to EUT (2177.0 kHz)
From TE send on the 2177.0 kHz the polling call addressed to the EUT. Verify:
(EUT will NOT receive call if NO implement DSC routine watch)

Receiving non distress automated procedure initiated by polling call	**Result**		**Com-ment**
	YES	**NO**	
EUT shall successively perform the auto acknowledgement of the receiving non distress automated procedure initiated by polling call [ETSI EN 300 338-2, n.6.9.2]	n.a	n.a	
EUT shall terminate the receiving non distress automated procedure initiated by polling call. [ETSI EN 300 338-2, n.6.9.2]			

d) Set the auto acknowledgement option to OFF for test on both the EUT and TE.

Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT select the new working channel CH **6234.0 kHz**. Verify that communications automated procedure **(1)** is initiated.

00:00 Polling cal to EUT (2177.0 kHz)
From TE send the polling call addressed to the EUT. Verify that receiving non distress automated procedure **(2)** is initiated on hold.
(EUT will NOT receive call if NO implement DSC routine watch)

From EUT send on the **8414.5 kHz** Safety Individual call to TE RT CH 8291.0 kHz. Verify that sending non distress automated procedure **(3)** is initiated.

Select and set **active** state of communications automated procedure **(1).** Terminate the current active communications procedure. Verify that:

Receiving non distress automated procedure initiated by polling call	**Result**		**Com-ment**
	YES	**NO**	
EUT shall **NOT** perform the auto acknowledgement the receiving non distress automated procedure initiated by polling call. [ETSI EN 300 338-2, n.6.9.2]	n.a	n.a	
EUT shall **NOT** terminate the receiving non distress automated procedure initiated by polling call. [ETSI EN 300 338-2, n.6.9.2]			

(49) (E663)
When the remaining automated procedures present on the equipment are inactive or on hold, and there are automated procedures handling test, polling, or position requests and these procedures are setup to auto acknowledge, the equipment does NOT perform the auto acknowledgement and terminate these procedures.

[ETSI EN 300 338-2, n.6.9.2]
[ITU-R M.493-13, Ann.4, n.3.3.4]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

10.13. Unacknowledged position request receiving automated procedure on hold tests

[ETSI EN 300 338-2, n.6.9.2]
[Rec. ITU-R M.493-13, Ann.4, n.3.3.4]

If the only remaining automated procedures present on the equipment are inactive or on hold, and there are automated procedures handling test, polling, or position requests and these procedures are setup to auto acknowledge, the equipment shall successively perform the auto acknowledgement and terminate these procedures.

[ETSI EN 300 338-2, n.6.9.2]

If any of these automated procedures is set to automatically acknowledge, it should automatically acknowledge and self terminate as soon as all remaining automated procedures are on hold.

[Rec. ITU-R M.493-13, Ann.4, n.3.3.4]

Scenario	**Legend**
TestV12H_0151.scn	*TestH_0N0E*

Definition

This test checks that the automated procedure handling a position request that is set to auto-acknowledge does not auto-acknowledge until all other automated procedures are on hold.

a) Set the auto acknowledgement option to on for test on both the EUT and TE.

Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT select the new working channel CH **6234.0 kHz**. Verify that communications automated procedure **(1)** is initiated.

00:00 Position request cal to EUT (12 577.0 kHz)
From TE send the position request call addressed to the EUT. Verify that receiving non distress automated procedure **(2)** is initiated on hold.

From EUT send on the **8414.5 kHz** Safety Individual call to TE RT CH 8291.0 kHz. Verify that sending non distress automated procedure **(3)** is initiated.

Select and set **active** state of communications automated procedure **(1).** Terminate the current active communications procedure. Verify that:

Receiving non distress automated procedure initiated by position request call	**Result**		**Com-ment**
	YES	**NO**	
EUT shall successively perform the auto acknowledgement these procedure [ETSI EN 300 338-2, n.6.9.2]		**X**	(49)
EUT shall terminate these procedures. [ETSI EN 300 338-2, n.6.9.2]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT select the new working channel CH **6234.0 kHz**. Verify that communications automated procedure **(1)** is initiated.

00:00 Position request cal to EUT (12 577.0 kHz)
From TE send the position request call addressed to the EUT. Verify that receiving non distress automated procedure **(2)** is initiated on hold.

From EUT send on the **8414.5 kHz** Safety Individual call to TE RT CH 8291.0 kHz. Verify that sending non distress automated procedure **(3)** is initiated.

Select and set **active** state of communications automated procedure **(1).** Place the current active communications procedure **on hold**. Verify that:

Receiving non distress automated procedure initiated by position request call	**Result**		**Com-ment**
	YES	**NO**	
EUT shall successively perform the auto acknowledgement of the receiving non distress automated procedure initiated by position request call [ETSI EN 300 338-2, n.6.9.2]		**X**	(49)
EUT shall terminate the receiving non distress automated procedure initiated by position request call. [ETSI EN 300 338-2, n.6.9.2]	**X**		

c) Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT select the new working channel CH **6234.0 kHz**. Verify that communications automated procedure **(1)** is initiated.

From EUT send on the **8414.5 kHz** Safety Individual call to TE RT CH 8291.0 kHz. Verify that sending non distress automated procedure **(2)** is initiated. Place the procedure **on hold**.

00:00 Position request cal to EUT (12 577.0 kHz)
From TE send on the 12 577.0 kHz the position request call addressed to the EUT. Verify:

Receiving non distress automated procedure initiated by position request call	**Result**		**Com-ment**
	YES	**NO**	
EUT shall successively perform the auto acknowledgement of the receiving non distress automated procedure initiated by position request call [ETSI EN 300 338-2, n.6.9.2]	**X**		
EUT shall terminate the receiving non distress automated procedure initiated by position request call. [ETSI EN 300 338-2, n.6.9.2]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

d) Set the auto acknowledgement option to OFF for test on both the EUT and TE.

Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT select the new working channel CH **6234.0 kHz**. Verify that communications automated procedure **(1)** is initiated.

00:00 Position request cal to EUT (12 577.0 kHz)
From TE send the position request call addressed to the EUT. Verify that receiving non distress automated procedure **(2)** is initiated on hold.

From EUT send on the **8414.5 kHz** Safety Individual call to TE RT CH 8291.0 kHz. Verify that sending non distress automated procedure **(3)** is initiated.

Select and set **active** state of communications automated procedure **(1).** Terminate the current active communications procedure. Verify that:

Receiving non distress automated procedure initiated by position request call	**Result**		**Com-ment**
	YES	**NO**	
EUT shall **NOT** perform the auto acknowledgement the receiving non distress automated procedure initiated by position request call. [ETSI EN 300 338-2, n.6.9.2]	**X**		
EUT shall **NOT** terminate the receiving non distress automated procedure initiated by position request call. [ETSI EN 300 338-2, n.6.9.2]	**X**		

(49) (E663)
When the remaining automated procedures present on the equipment are inactive or on hold, and there are automated procedures handling test, polling, or position requests and these procedures are setup to auto acknowledge, the equipment does NOT perform the auto acknowledgement and terminate these procedures.

[ETSI EN 300 338-2, n.6.9.2]
[ITU-R M.493-13, Ann.4, n.3.3.4]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

10.14. Unacknowledged Individual DSC message receiving automated procedure on hold tests

[ETSI EN 300 338-2, n.6.9.2]
[Rec. ITU-R M.493-13, Ann.4, n.3.3.4]

If the only remaining automated procedures present on the equipment are inactive or on hold, and there are automated procedures handling test, polling, or position requests and these procedures are setup to auto acknowledge, the equipment shall successively perform the auto acknowledgement and terminate these procedures.

[ETSI EN 300 338-2, n.6.9.2]

If any of these automated procedures is set to automatically acknowledge, it should automatically acknowledge and self terminate as soon as all remaining automated procedures are on hold.

[Rec. ITU-R M.493-13, Ann.4, n.3.3.4]

Scenario	**Legend**
TestV12H_0152.scn	*TestH_0N0E*

Definition

This test checks that the automated procedure handling a individual call (unable to comply conditions) that is set to auto-acknowledge does not auto-acknowledge until automated procedure are on hold.

Method of measurement and required results

a) Set the auto acknowledgement option to on for test on both the EUT and TE.

Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT select the new working channel CH **6234.0 kHz**. Verify that communications automated procedure **(1)** is initiated.

00:00 Individual cal to EUT No information (12 577.0 kHz)
From TE send on the frequency **12 577.0 kHz** the Individual call addressed to the EUT RT CH "0000.0 kHz/0000.0 kHz" (unable to comply). Verify that receiving non distress automated procedure **(2)** is initiated on hold.

From EUT send on the **8414.5 kHz** Safety Individual call to TE RT CH 8291.0 kHz. Verify that sending non distress automated procedure **(3)** is initiated.

Select and set **active** state of communications automated procedure **(1).** Terminate the current active communications procedure. Verify that:

Receiving non distress automated procedure initiated by Individual call	**Result**		**Com-ment**
	YES	**NO**	
EUT shall **NOT** perform the auto acknowledgement these procedure [ETSI EN 300 338-2, n.6.9.2]	**X**		
EUT shall **NOT** terminate these procedures. [ETSI EN 300 338-2, n.6.9.2]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT select the new working channel CH **6234.0 kHz**. Verify that communications automated procedure **(1)** is initiated.

00:00 Individual cal to EUT No information (12 577.0 kHz)
From TE send on the frequency **12 577.0 kHz** the Individual call addressed to the EUT RT CH "0000.0 kHz/0000.0 kHz" (unable to comply). Verify that receiving non distress automated procedure **(2)** is initiated on hold.

From EUT send on the **8414.5 kHz** Safety Individual call to TE RT CH 8291.0 kHz. Verify that sending non distress automated procedure **(3)** is initiated.

Select and set **active** state of communications automated procedure **(1).** Place the current active communications procedure **on hold**. Verify that:

Receiving non distress automated procedure initiated by Individual call	**Result**		**Com-ment**
	YES	**NO**	
EUT shall **NOT** perform the auto acknowledgement of the receiving non distress automated procedure initiated by Individual call [ETSI EN 300 338-2, n.6.9.2]	**X**		
EUT shall **NOT** terminate the receiving non distress automated procedure initiated by Individual call. [ETSI EN 300 338-2, n.6.9.2]	**X**		

c) Set both the EUT and TE in standby. Set the no activity timeout of communications automated procedures to maximum value. From the EUT select the new working channel CH **6234.0 kHz**. Verify that communications automated procedure **(1)** is initiated.

From EUT send on the **8414.5 kHz** Safety Individual call to TE RT CH 8291.0 kHz. Verify that sending non distress automated procedure **(2)** is initiated. Place the procedure **on hold**.

00:00 Individual call No information to EUT (12 577.0 kHz)
From TE send on the 12 577.0 kHz the Individual call "0000.0 kHz/0000.0 kHz" (Unable to comply) addressed to the EUT. Verify:

Receiving non distress automated procedure initiated by Individual call	**Result**		**Com-ment**
	YES	**NO**	
EUT shall **NOT** perform the auto acknowledgement of the receiving non distress automated procedure initiated by Individual call [ETSI EN 300 338-2, n.6.9.2]	**X**		
EUT shall **NOT** terminate the receiving non distress automated procedure initiated by Individual call. [ETSI EN 300 338-2, n.6.9.2]	**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

10.15. Multiple automated procedures and parallel event handling options tests

[ETSI EN 300 338-2, n.6.9.2]
[Rec. ITU-R M.493-13, Annex 4, n.3.3.2]

3.3.3.1 The operator should be able to freely navigate between the automated procedures except when engaged in an unacknowledged sending distress automated procedure.
3.3.3.2 When the operator makes any one of the automated procedures on hold active, the automated procedure that was active (if any) should automatically go on hold.

[Rec. ITU-R M.493-13, Annex 4, n.3.3.2]

The operator shall be able to activate any displayed automated procedure on hold selected from the list in c) by a single action (a button press or selection) unless the currently active procedure is transmitting,

The radio shall provide sufficient memory or capacity to be able to handle a minimum of seven simultaneous automated procedures including a reserve of one. If the equipment can handle more than the required minimum, the equipment shall provide a setup option where the operator can set the value to seven (or any other value the equipment is capable of handling). This option is only required for equipment that can handle more than the minimum. When the equipment maximum is exceeded by one and the reserve procedure is started, the equipment shall generate a warning stating that an automated procedure needs to be terminated or equivalent, though this new procedure and all the previous automated procedures shall still function normally. At this time, the operator shall be prevented from starting any automated procedure except for the sending one's own distress. If the operator does not elect to terminate an automated procedure, the reception of an additional automated procedure shall result in the automatic termination of an existing automated procedure.

[ETSI EN 300 338-2, n.6.9.2]

Scenario	**Legend**
TestV12H_0120.scn	*TestH_0N0E*
TestV12H_0120-1.scn	*TestH_0N0E*

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Definition

This test checks that the EUT handles multiple automated procedures, properly responds to **reaching** the maximum number of automated procedures,
The test personnel shall check that each of these automated procedures behaves correctly and that the EUT correctly handles the situations when the equipment maximum is exceeded. Then the test personnel shall be asked to make selected automated procedures active on the EUT and perform various actions (such as acknowledging).

Method of measurement and required results

a) Reset EUT and TE into Standby mode. Set the EUT's automatic timeout for the automated procedures to no timeout. If the equipment supports more than seven simultaneous automated procedures, set up the equipment such that the maximum number is seven. Verify that:

Multiple automated procedures Capacity	**Value**	**Results**		**Comment**
		YES	**NO**	
EUT shall provide sufficient memory or capacity to be able to handle a minimum of seven simultaneous automated procedures including a reserve of one. [ETSI EN 300 338-2, n.6.9.2]	**7**	**X**		(51)

Multiple automated procedures Setup options	**Result**		**Com-ment**
	YES	**NO**	
EUT shall provide sufficient memory or capacity to be able to handle a minimum of seven simultaneous automated procedures including a reserve of one. [ETSI EN 300 338-2, n.6.9.2]	**X**		
If the equipment can handle more than the required minimum (seven), the equipment shall provide a setup option where the operator can set the value to seven (or any other value the equipment is capable of handling). [ETSI EN 300 338-2, n.6.9.2]	n.a	n.a	

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) The DSC messages to be sent from the TE are listed in table.

TestV12H_0120.scn
00:00…..07:30

N	**DSC sentence**	**Verify**				**Comment**
		Procedure state	Alarm	Indica-tion	Subse-quent tuning	
1	Distress alert RT 2187.5 kHz	Active	Two-tone distress	Yes	Yes	Should be active
2	Distress relay RT Individual 4125.0 kHz	On-hold	Two-tone distress	Yes	No	
3	Geographic area RT call Safety 6215.0 kHz	On-hold	Routine	Yes	No	
4	Geographic area RT call Urgency 8414.5 kHz	On-hold	Two-tone Urgency	Yes	No	
5	Distress relay RT All ships 12 577.0 kHz	On-hold	Two-tone distress	Yes	No	
6	Safety individual RT call 16 804.5 kHz	On-hold	routine	Yes	No	

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Verify that:

Multiple automated procedures	**Result**		**Com-ment**
	YES	**NO**	
The six automated procedures are started [ETSI EN 300 338-2, n.6.9.2]	**X**		
The first (1) receiving distress automated procedure is active [ETSI EN 300 338-2, n.6.9.2]	**X**		
The next (2-6) automated procedures are on hold [ETSI EN 300 338-2, n.6.9.2]	**X**		

For individual calls (2) and (6) send from EUT acknowledgement.

For each DSC automated procedure verify that:

Multiple automated procedure features (six procedures)	**Result**		**Com-ment**
	YES	**NO**	
The operator shall be able to activate any displayed automated procedure on hold selected from the list by a single action (a button press or selection) [ETSI EN 300 338-2, n.6.9.2]		**X**	(50)
the only operator options which are available are those that do not require use of the transmitter or general receiver such as to terminate or activate the automated procedure on hold [ETSI EN 300 338-2, n.6.9.2]	**X**		
any subsequent tunings of the transmitter and general receiver that would occur if the procedure were active upon reception of a DSC message appropriate to the procedure shall not occur until the procedure is activated by the operator; [ETSI EN 300 338-2, n.6.9.2]	**X**		
the display of automated procedures on hold may be requested by a simple button press or selection, and may be represented by an appropriately named list, labelled icons, or equivalent in order to minimize space requirements [ETSI EN 300 338-2, n.6.9.2]	**X**		
all other features on automated procedures, including handling of the alarms and full display of information at the request of the operator, remain [ETSI EN 300 338-2, n.6.9.2]		**X**	(45)
thus any action to activate an automated procedure on hold places the currently active automated procedure on hold [ETSI EN 300 338-2, n.6.9.2]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

c) Set the receiving distress automated procedure initiated by distress call (1) reception in active. From TE send on the **16 804.5 kHz** additional DSC message Safety Geographic area call from MMSI 002731111 RT 16 420.0 kHz. Verify that:

TestV12H_0120-1.scn
00:00 Geographic area call on the 16 804.5 kHz

Multiple automated procedure features (six procedures and one reserve procedure is started)	**Result**		**Com-ment**
	YES	**NO**	
the reserve procedure is started, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the equipment shall generate a warning stating that an automated procedure needs to be terminated or equivalent, [ETSI EN 300 338-2, n.6.9.2]	**X**		NOTE 1
The total number procedures is seven [ETSI EN 300 338-2, n.6.9.2]	**X**		
The receiving distress automated procedure is active [ETSI EN 300 338-2, n.6.9.2]	**X**		
this new procedure and all the previous automated procedures shall still function normally [ETSI EN 300 338-2, n.6.9.2]	**X**		
The operator able to select and terminate automated procedure, [ETSI EN 300 338-2, n.6.9.2]	**X**		

NOTE 1
DSC warning: “SESSION LIST FULL. PLEASE TERMINATE UNUSED SESSIONS”.

(45) (E566)(E155)(E1098)
The equipment is engaged in the handling of multiple automated procedures simultaneously (up to 7). Termination event occurs automatically one of the procedures.
Displays a warning, but the operator does not informed which of the procedures (from up to 7) will be terminated.

[ETSI EN 300 338-2,n.6.9.2]

(50) (E1333)
EUT has two automated procedure: receiving distress automated procedure (Active) and communications procedure (on hold).
The operator to activate displayed communications automated procedure on hold selected from the list requires two actions: (1) select option MORE, (2) select option ACTIVATE.
Thile the operator shall be able to activate any displayed automated procedure on hold selected from the list by a single action (a button press or selection)

[ETSI EN 300 338-2, n.6.9.2]

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

(51) (E264)

The equipment has a means of simultaneous processing of only one communications procedure. Of the seven possible automated procedures can be only one communications procedure.

While the standards do not have special restrictions on the number of simultaneously handled communications procedures.

[ETSI EN 300 338-2, n.6.9.2]
[ETSI EN 300 338-2, n.6.8.1]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

10.16. Multiple automated procedures and parallel event handling overflows tests

[ETSI EN 300 338-2, n.6.9.2]
[Rec. ITU-R M.493-13, Annex 4, n.3.3.2]

3.3.1 Number of simultaneous automated procedures
Facilities should be provided to handle a minimum of seven simultaneous automated procedures including a reserve of one. The initiation of the reserve automated procedure should:
– warn the operator that the equipment cannot handle another automated procedure and that one automated procedure should be terminated,
– prevent the operator from initiating any new automated procedures except for the sending of a distress alert and,
– warn the operator that the reception of an additional DSC message that would initiate an automated procedure if the equipment were in standby will result in the automatic and immediate termination of an inactive automated procedure where,
– the automatic and immediate termination should be based upon age and priority.

[Rec. ITU-R M.493-13, Annex 4, n.3.3.1]

The radio shall provide sufficient memory or capacity to be able to handle a minimum of seven simultaneous automated procedures including a reserve of one. If the equipment can handle more than the required minimum, the equipment shall provide a setup option where the operator can set the value to seven (or any other value the equipment is capable of handling). This option is only required for equipment that can handle more than the minimum. When the equipment maximum is exceeded by one and the reserve procedure is started, the equipment shall generate a warning stating that an automated procedure needs to be terminated or equivalent, though this new procedure and all the previous automated procedures shall still function normally. At this time, the operator shall be prevented from starting any automated procedure except for the sending one's own distress. If the operator does not elect to terminate an automated procedure, the reception of an additional automated procedure shall result in the automatic termination of an existing automated procedure.

[ETSI EN 300 338-2, n.6.9.2]

Scenario	Legend
TestV12H_0121.scn	*TestH_0N0E*

Definition

This test checks that the EUT handles multiple automated procedures, properly responds to reaching and **exceeding** the maximum number of automated procedures, The test personnel shall check that each of these automated procedures behaves correctly and that the EUT correctly handles the situations when the equipment maximum is exceeded.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) Reset the EUT and TE into Standby. Set the EUT's automatic timeout for the automated procedures to no timeout. If the equipment supports more than seven simultaneous automated procedures, set up the equipment such that the maximum number is seven. The DSC messages to be sent from the TE are listed in table.

TestV12V_0121.scn
00:00….09:00

N	DSC sentence
1	Distress alert RT 2187.5 kHz
2	Distress relay RT Individual 4125.0 kHz
3	Geographic area RT call Safety 6215.0 kHz
4	Geographic area RT call Urgency 8414.5 kHz
5	Distress relay RT All ships 12 577.0 kHz
6	Safety individual RT call 16 804.5 kHz
7	Geographic area RT call Safety 8414.5 kHz

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Verify that:

Multiple automated procedure features (six procedures and one reserve procedure is started)	**Result**		**Com-ment**
	YES	**NO**	
The seven automated procedures are started [ETSI EN 300 338-2, n.6.9.2]	**X**		
The first (1) receiving distress automated procedure is active [ETSI EN 300 338-2, n.6.9.2]	**X**		
The next (2-6) automated procedures are on hold [ETSI EN 300 338-2, n.6.9.2]	**X**		
the reserve (7) procedure is started, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the equipment shall generate a warning stating that an automated procedure needs to be terminated or equivalent, [ETSI EN 300 338-2, n.6.9.2]	**X**		
warn the operator that the reception of an additional DSC message that would initiate an automated procedure if the equipment were in standby will result in the automatic and immediate termination of an inactive automated procedure where, [Rec. ITU-R M.493-13, Annex 4, n.3.3.1]	**X**		

Try to send from EUT the calls. Verify that:

Multiple automated procedure features (New additional - oferflow)	**Result**		**Com-ment**
	YES	**NO**	
the operator shall be prevented from starting any automated procedure [ETSI EN 300 338-2, n.6.9.2]		**X**	(52)

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Repeat the item (a).
Send the default distress alert attempt from the EUT and verify that:

Item (Distress call sending)	Result YES	Result NO	Comment
the operator shall **NOT** be prevented from starting the sending one's own distress [ETSI EN 300 338-2, n.6.9.2]	X		
Pressing the DB sounds an audio alarm such that one can count seconds by it,	X		
Pressing the DB invokes a visual indicator such that one can count seconds by it,	X		
the seconds remaining to transmission of the alert attempt are displayed,	X		
release of the DB before 3 s have elapsed stops the sub procedure,	X		
if the distress button is released before the three seconds have elapsed when releasing the button the radio shall return to its previous state; [ETSI EN 300 338-2, n.6.4.4,c]	X		
after the 3 s have elapsed there a steady tone of 2 s duration,	X		
the distress alert attempt is sent if the DB is then released after the 3 s,	X		
the distress alert attempt is sent if the DB is continued to be held down.	X		
The operator should **NOT** be able to freely navigate between the automated procedures when engaged in an unacknowledged sending distress automated procedure. [Rec. ITU-R M.493-13, Annex 4, n.3.3.3.1]	X		
When initiating a sending distress automated procedure, automatic immediate termination of all other automated procedures (if any) is encouraged but not required. [Rec. ITU-R M.493-13, Annex 4, n.3.3.2]	X		NOTE 1

NOTE 1
When sending distress automated procedure activated, all other existing procedures are terminated.

(52) (E1115)
When the equipment maximum is exceeded by one and the reserve procedure is started, the equipment generate a warning stating that an automated procedure needs to be terminated or equivalent, though this new procedure and all the previous automated procedures still function normally.
But the operator does NOT be prevented from starting any automated procedure except for the sending one's own distress.

[ETSI EN 300 338-2, n.6.9.2]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

10.17. Multiple automated procedures and parallel event handling the priority and age rules automatic termination tests

[ETSI EN 300 338-2, n.6.9.2]
[Rec. ITU-R M.493-13, Annex 4, n.3.3.2]

3.3.1 Number of simultaneous automated procedures
Facilities should be provided to handle a minimum of seven simultaneous automated procedures including a reserve of one. The initiation of the reserve automated procedure should:
– warn the operator that the equipment cannot handle another automated procedure and that one automated procedure should be terminated,
– prevent the operator from initiating any new automated procedures except for the sending of a distress alert and,
– warn the operator that the reception of an additional DSC message that would initiate an automated procedure if the equipment were in standby will result in the automatic and immediate termination of an inactive automated procedure where,
– the automatic and immediate termination should be based upon age and priority.

[Rec. ITU-R M.493-13, Annex 4, n.3.3.1]

The radio shall provide sufficient memory or capacity to be able to handle a minimum of seven simultaneous automated procedures including a reserve of one. If the equipment can handle more than the required minimum, the equipment shall provide a setup option where the operator can set the value to seven (or any other value the equipment is capable of handling). This option is only required for equipment that can handle more than the minimum. When the equipment maximum is exceeded by one and the reserve procedure is started, the equipment shall generate a warning stating that an automated procedure needs to be terminated or equivalent, though this new procedure and all the previous automated procedures shall still function normally. At this time, the operator shall be prevented from starting any automated procedure except for the sending one's own distress. If the operator does not elect to terminate an automated procedure, the reception of an additional automated procedure shall result in the automatic termination of an existing automated procedure.
The automatic and immediate termination of an automated procedure should be based upon age and priority.

[ETSI EN 300 338-2, n.6.9.2]

Scenario	Legend
TestV12H_0122.scn	*TestH_0N0E*

(*)The test allow to check equipment witch is designed to to handle a minimum of seven simultaneous automated procedures including a reserve of one.

Definition

This test checks that the EUT handles multiple automated procedures, properly responds to reaching and **exceeding** the maximum number of automated procedures, The test personnel shall check that each of these automated procedures behaves correctly and that the EUT correctly handles the situations when the equipment maximum is exceeded.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) Reset the EUT and TE into Standby mode. Set the EUT's automatic timeout for the automated procedures to no timeout. If the equipment supports more than seven simultaneous automated procedures, set up the equipment such that the maximum number is seven. The DSC messages to be sent on the frequecy 6312.0 kHz from the TE are listed in table.

TestV12H_0122.scn

N	Time	DSC sentence	Priority (*)	Comment
1	*00:00*	*Safety Geographic area RT CH 6215.0 kHz from 002731111*	***N/A***	Active (no termination)
2	*00:30*	*Safety Geographic area RT CH 6230.0 kHz from 002730001*	***1***	Recommended priority of termination 1
3	*01:00*	*Distress call from 273222222*	***6***	Recommended priority of termination 6
4	*01:30*	*Urgency Individual from 002730002*	***3***	Recommended priority of termination 3
5	*02:00*	*Safety Geographic area RT CH 6227.0 kHz from 002730003*	***2***	Recommended priority of termination 2
6	*02:30*	*Urgency Individual from 002730004*	***4***	Recommended priority of termination 4
7	*03:00*	*Urgency Geographic area FEC CH 6268.0 kHz from 002730005*	***5***	Recommended priority of termination 5
8	*06:00*	*Distress call ftrom 273000001*		
9	*09:00*	*Distress call ftrom 273000002*		
10	*12:00*	*Distress call ftrom 273000003*		
11	*15:00*	*Distress call ftrom 273000004*		
12	*18:00*	*Distress call ftrom 273000005*		
13	*21:00*	*Distress call ftrom 273000006*		

(*) The manufacturer of equipment may be set different priority sequence.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

At 03:00 verify that:

Multiple automated procedure features (six procedures and one reserve procedure is started)	**Result**		**Com-ment**
	YES	**NO**	
The seven automated procedures are started [ETSI EN 300 338-2, n.6.9.2]	**X**		
The receiving non distress automated procedure initiated by (1) is active [ETSI EN 300 338-2, n.6.9.2]	**X**		
The next (2-6) automated procedures are on hold [ETSI EN 300 338-2, n.6.9.2]	**X**		
the reserve (7) procedure is started, [ETSI EN 300 338-2, n.6.9.2]	**X**		
the equipment shall generate a warning stating that an automated procedure needs to be terminated or equivalent, [ETSI EN 300 338-2, n.6.9.2]	**X**		
Total number of automated procedures on the EUT is seven [ETSI EN 300 338-2, n.6.9.2]	**X**		

b) At 06:00 TE sends additional DSC message (8). Verify that:

Multiple automated procedure features (Automatic and immediate termination)	**Result**		**Com-ment**
	YES	**NO**	
warn the operator that the reception of an additional DSC message that would initiate an automated procedure if the equipment were **in standby** will result in the automatic and immediate termination of an inactive automated procedure where, [Rec. ITU-R M.493-13, Annex 4, n.3.3.1]	**X**		NOTE 1
If the operator does not elect to terminate an automated procedure, the reception of an additional automated procedure shall result in the automatic termination of an existing automated procedure initiated by DSC message (2). [ETSI EN 300 338-2, n.6.9.2]	**X**		
The automatic and immediate termination of an automated procedure should be based upon age and priority [ETSI EN 300 338-2, n.6.9.2]	**X**		
Total number of automated procedures on the EUT is seven [ETSI EN 300 338-2, n.6.9.2]	**X**		
The receiving non distress automated procedure initiated by (1) is active [ETSI EN 300 338-2, n.6.9.2]	**X**		

NOTE 1
No special warning. As a warning to the equipment used by a permanent presence of icons seventh procedure (session).

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

c) At 09:00 TE sends additional DSC message (9). Verify that:

Multiple automated procedure features (Automatic and immediate termination)	**Result**		**Com-ment**
	YES	**NO**	
warn the operator that the reception of an additional DSC message that would initiate an automated procedure if the equipment were **in standby** will result in the automatic and immediate termination of an inactive automated procedure where, [Rec. ITU-R M.493-13, Annex 4, n.3.3.1]	**X**		
If the operator does not elect to terminate an automated procedure, the reception of an additional automated procedure shall result in the automatic termination of an existing automated procedure initiated by DSC message (5). [ETSI EN 300 338-2, n.6.9.2]	**X**		
The automatic and immediate termination of an automated procedure should be based upon age and priority [ETSI EN 300 338-2, n.6.9.2]	**X**		
Total number of automated procedures on the EUT is seven [ETSI EN 300 338-2, n.6.9.2]	**X**		
The receiving non distress automated procedure initiated by (1) is active [ETSI EN 300 338-2, n.6.9.2]	**X**		

d) At 12:00 TE sends additional DSC message (10). Verify that:

Multiple automated procedure features (Automatic and immediate termination)	**Result**		**Com-ment**
	YES	**NO**	
warn the operator that the reception of an additional DSC message that would initiate an automated procedure if the equipment were **in standby** will result in the automatic and immediate termination of an inactive automated procedure where, [Rec. ITU-R M.493-13, Annex 4, n.3.3.1]	**X**		
If the operator does not elect to terminate an automated procedure, the reception of an additional automated procedure shall result in the automatic termination of an existing automated procedure initiated by DSC message (4). [ETSI EN 300 338-2, n.6.9.2]	**X**		
The automatic and immediate termination of an automated procedure should be based upon age and priority [ETSI EN 300 338-2, n.6.9.2]	**X**		
Total number of automated procedures on the EUT is seven [ETSI EN 300 338-2, n.6.9.2]	**X**		
The receiving non distress automated procedure initiated by (1) is active [ETSI EN 300 338-2, n.6.9.2]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

e) At 15:00 TE sends additional DSC message (11). Verify that:

Multiple automated procedure features (Automatic and immediate termination)	**Result**		**Com-ment**
	YES	**NO**	
warn the operator that the reception of an additional DSC message that would initiate an automated procedure if the equipment were **in standby** will result in the automatic and immediate termination of an inactive automated procedure where, [Rec. ITU-R M.493-13, Annex 4, n.3.3.1]	**X**		
If the operator does not elect to terminate an automated procedure, the reception of an additional automated procedure shall result in the automatic termination of an existing automated procedure initiated by DSC message (6). [ETSI EN 300 338-2, n.6.9.2]	**X**		
The automatic and immediate termination of an automated procedure should be based upon age and priority [ETSI EN 300 338-2, n.6.9.2]	**X**		
Total number of automated procedures on the EUT is seven [ETSI EN 300 338-2, n.6.9.2]	**X**		
The receiving non distress automated procedure initiated by (1) is active [ETSI EN 300 338-2, n.6.9.2]	**X**		

f) At 18:00 TE sends additional DSC message (12). Verify that:

Multiple automated procedure features (Automatic and immediate termination)	**Result**		**Com-ment**
	YES	**NO**	
warn the operator that the reception of an additional DSC message that would initiate an automated procedure if the equipment were **in standby** will result in the automatic and immediate termination of an inactive automated procedure where, [Rec. ITU-R M.493-13, Annex 4, n.3.3.1]	**X**		
If the operator does not elect to terminate an automated procedure, the reception of an additional automated procedure shall result in the automatic termination of an existing automated procedure initiated by DSC message (7). [ETSI EN 300 338-2, n.6.9.2]	**X**		
The automatic and immediate termination of an automated procedure should be based upon age and priority [ETSI EN 300 338-2, n.6.9.2]	**X**		
Total number of automated procedures on the EUT is seven [ETSI EN 300 338-2, n.6.9.2]	**X**		
The receiving non distress automated procedure initiated by (1) is active [ETSI EN 300 338-2, n.6.9.2]	**X**		

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g) At 21:00 TE sends additional DSC message (13). Verify that:

Multiple automated procedure features (Automatic and immediate termination)	**Result**		**Com-ment**
	YES	**NO**	
warn the operator that the reception of an additional DSC message that would initiate an automated procedure if the equipment were **in standby** will result in the automatic and immediate termination of an inactive automated procedure where, [Rec. ITU-R M.493-13, Annex 4, n.3.3.1]	**X**		
If the operator does not elect to terminate an automated procedure, the reception of an additional automated procedure shall result in the automatic termination of an existing automated procedure initiated by DSC message (3). [ETSI EN 300 338-2, n.6.9.2]	**X**		
The automatic and immediate termination of an automated procedure should be based upon age and priority [ETSI EN 300 338-2, n.6.9.2]	**X**		
Total number of automated procedures on the EUT is seven [ETSI EN 300 338-2, n.6.9.2]	**X**		
The receiving non distress automated procedure initiated by (1) is active [ETSI EN 300 338-2, n.6.9.2]	**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

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11. Decoding and error correction

[ETSI EN 300 338-1 (2010-02), n.8]

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
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11.1. Specified phasing (character synchronization)

[ETSI EN 300 338-1(2010-02), n.8.1,a,c]
[Rec.ITU-R M.493-13, Ann. 1, n.3.3]

c) the decoder shall use word recognition for the purposes of word synchronization. (Word synchronization is the stage at which the decoder is able to recognize that the dot pattern has completed and the 10-bit words of the message have started);

[ETSI EN 300 338-1(2010-02), n.8.1,a,c]

Scenario	Legend
TestH_2-5-1	Is not required

Definition

This tests checks the ability of the EUT to phasing synchronization. Phasing is considered to be achieved when two DXs and one RX, or two RXs and one DX, or three RXs in the appropriate DX or RX position, respectively, are successfully received. These three phasing characters can be detected in either consecutive or non-consecutive positions.

Method of measurement and required results

The EUT and TE are connected. The TE generates and transmits to the EUT one legal call sequence for the equipment class (e.g. "Distress acknowledgement"). During the transmission, the phasing sequence (character Nos(*) 1-12,14,16) is mutilated, excluding character Nos

a) 3,4,10 (2RX-1DX);	(TEST 1H)
b) 3,4,7,10 (2RX-2DX);	(TEST 2H)
c) 3,4,7,8,10 (3RX-2DX);	(TEST 3H)
d) 3,4,5 (1RX-2DX);	(TEST 4H)
e) 4,6,8 (3RX);	(TEST 5H)
f) 1,2,4,5,7,8,10,11 (4RX-4DX);	(TEST 6H)
g) 1,4,7,8,10,11 (3RX-3DX);	(TEST 7H)
h) 8,10 (2RX);	(TEST 8H)
i) 1,3,5,7 (4DX);	(TEST 9H)
κ) 2 (1RX);	(TEST 10H)
l) 1,14,16 (2RX-1DX).	(TEST 11H)

EUT receives the sequences.

Result required.

Phasing is considered to be achieved when two DXs and one RX, or two RXs and one DX, or three RXs in the appropriate DX or RX position, respectively, are successfully received. These three phasing characters can be detected in either consecutive or non-consecutive positions. [Rec.493 Ann.1, 3.3]. In cases *c, f, g* EUT phasing shall be achieved. For cases *h, i, κ* EUT phasing need not be achieved. For cases *a, b, d, l* EUT phasing is optional provided it has been achieved for *e*. Phasing is likewise optional for *e* provided it has been achieved for *a, b, d , l*.

(*) DSC sequential No. 1 is the first phasing character following dot pattern in DX position.

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Verify that:

N	Not distortion characters of phasing sequence	Reception		Result		Comment
		YES	NO	YES	NO	
1	EUT phasing shall be achieved in case a. 3,4,10 (2RX-1DX)	X		X		
2	EUT phasing shall be achieved in case b. 3,4,7,10 (2RX-2DX)	X		X		
3	EUT phasing shall be achieved in case c. 3,4,7,8,10 (3RX-2DX)	X		X		
4	EUT phasing shall be achieved in case d. 3,4,5 (1RX-2DX)	X		X		
5	EUT phasing shall be achieved in case e. 4,6,8 (3RX)	X		X		
6	EUT phasing shall be achieved in case f. 1,2,4,5,7,8,10,11 (4RX-4DX)	X		X		
7	EUT phasing shall be achieved in xase g. 1,4,7,8,10,11 (3RX-3DX)	X		X		
8	EUT phasing shall **NOT** be achieved in case h. 8,10 (2RX)		X	X		
9	EUT phasing shall **NOT** be achieved in case t. 1,3,5,7 (4DX)		X	X		
10	EUT phasing shall **NOT** be achieved in case k. 2 (1RX)		X	X		
11	EUT phasing shall be achieved in case l. 1,14,16 (2RX-1DX)	X		X		

Item	Result		Com-ment
	YES	NO	
In cases 1-7 and the EUT shall receive a sequence. [ETSI EN 300 338-1 (2010-02), n.8.1,a,c] [Rec. ITU-R M.493-13, Ann.1, n.3.3]	X		
For the cases 8,9,10 the EUT shall not receive a sequence. [ETSI EN 300 338-1 (2010-02), n.8.1,a,c] [Rec. ITU-R M.493-13, Ann.1, n.3.3]	X		

The equipment meets the requirements (yes / no /n.a)	**yes**

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11.2. Decoding format specifier with mutilations

[ITU-R M.493-13, Annex 1, n. 4.2]
[ETSI EN 300 338-1 (2010-02), n.8.1,f,h,j]

h) if the format symbol is either distress (112) or all ships (116), the message shall be rejected if the format symbol is not received correctly at least twice in either the DX or RX position;
j) the message shall be rejected if the format symbol is not distress (112) or all ships (116), and all five address symbols are not received correctly or if the address indicates that it is not for this station (it does not contain the station MMSI or group MMSI or the station is not in the specified geographic area);

[ETSI EN 300 338-1 (2010-02), n.8.1,h,j]

Scenario	Legend
TestH_2-6-1.scn	Is not required
TestH_2-6-2.scn	Is not required
TestH_2-6-3.scn	Is not required

TestH_2-6-1.scn *Distress Calls*
TestH_2-6-2.scn *Distress Acknowledgements*
TestH_2-6-3.scn *Individual calls to EUT 2730000000*

Definition

This tests checks the decoding techniques for format specifier.

Method of measurement and required results

The EUT and TE are connected. The TE generates and transmits to the EUT the legal call sequences for this equipment class. During the transmission, the following format specifier characters are mutilated

a) first in DX position; (TEST 12H)
b) second in DX position; (TEST 13H)
c) first and second in DX positions; (TEST 14H)
d first in RX position ; (TEST 15H)
e) second in RX position; (TEST 16H)
f) first and second in RX position; (TEST 17H)
g) first in DX position и first in RX position; (TEST 18H)
h) first in DX position and second in RX position; (TEST 19H)
i) second in DX position and first in RX position; (TEST 20H)
к) second in DX position and second in RX position; (TEST 21H)
l) first in DX position and first and second in RX position; (TEST 22H)
m) second in DX position and first and second in RX position; (TEST 23H)
n) first and second in DX position and first in RX position; (TEST 24H)
o) first and second in DX position and second in RX position; (TEST 25H)
p) first and second in DX and RX positions; (TEST 26H)

EUT receives the sequences.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
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Result required.

Verify that:
It is considered that receiver decoders must detect the format specifier character twice for «distress» calls and «all ships» calls to effectively eliminate false alerting. For other calls, the address characters provide additional protection against false alerting and, therefore, single detection of the format specifier character is considered satisfactory. [Rec.493 Ann.1, 4.2] In cases *a,b, c, d, e, f, h, i* the EUT shall receive all sequence types. For the case *p* the EUT need not receive all sequence types. For cases *g, κ, l, m, n, o* EUT shall receive all sequence types (sequences of “distress call” and “all ships” types omitted). For cases *g, κ, l, m, n, o* sequences “distress call”and “all ships” need not be received.

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N	Distortions of characters of a format specifier	Distress alert		Distress Ack		Individual call		Comment
		Reception		Reception		Reception		
		OK	NO	OK	NO	OK	NO	
1	The first on position DX.	X		X		X		
2	The second on position DX	X		X		X		
3	The first and the second on position DX.	X		X		X		
4	The first on position RX.	X		X		X		
5	The second on position RX.	X		X		X		
6	The first and the second on position RX.	X		X		X		
7	The first on position DX and the first on position RX.		X		X	X		
8	The first on position DX and the second on position RX.	X		X		X		
9	The second on position DX and the first on position RX.	X		X		X		
10	The second on position DX and the second on position RX.		X		X	X		
11	The first on position DX and the first and the second on position RX.		X		X	X		
12	The second on position DX and the first and the second on position RX.		X		X	X		
13	The first and the second on position DX and the first on position RX.		X		X	X		
14	The first and the second on position DX and the second on position RX.		X		X	X		
15	The first and the second on positions DX and RX.		X		X		X	

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Item	Result		Com-ment
	YES	NO	
In cases *a ,b, c, d, e, f, h, i* the EUT shall receive all sequence types. [ETSI EN 300 338-1 (2010-02), n.8.1,h,j]	X		
For cases *g, κ, l, m, n, o* EUT shall receive all sequence types (sequences of "distress call" and "all ships" types omitted). [ETSI EN 300 338-1 (2010-02), n.8.1,h,j]	X		
For the case *p* the EUT need not receive all sequence types.	X		
For cases *g, κ, l, m, n, o* sequences "distress call"and "all ships" need not be received. [ETSI EN 300 338-1 (2010-02), n.8.1,h,j]	X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
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11.3. Decoding call with no allowed format specifier

[ITU-R M.493-13, Annex 1, Table 3]
[ETSI EN 300 338-1, n.8.1,g]

g) the decoder shall reject the message if the error-free format symbol does not have a value allowed by ITU-R recommendation M.493 unless the equipment is specifically designed to handle other values;

[ETSI EN 300 338-1, n.8.1,g]

Scenario	**Legend**
TestV12H_0040	Is not required

Method of measurement and required results

Reset EUT into Standby. Send on the 2187.5 kHz from TE calls with format specifier as listed in the Table. Verify that:

Results

	Format specifier	**Reception**		**Result**		**Comment**
		YES	**NO**	**YES**	**NO**	
1	**116 – All ships**		**X**	**X**		
2	**100 – is not specified**		**X**	**X**		
3	**103 – VTS area**		**X**	**X**		
4	**110 – Obsolete Rec.M.586**		**X**	**X**		
5	**121 – Reserved**		**X**	**X**		

Item	**Result**		**Com-ment**
	YES	**NO**	
The decoder shall reject the message if the error-free format symbol does not have a value allowed by ITU-R recommendation M.493 unless the equipment is specifically designed to handle other values; [ETSI EN 300 338-1, n.8.1,g]	**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
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11.4. Decoder's ability to detect mutilate-type errors in ten-bit code

[ITU-R M.493-13, Annex 1, n.1.1]
[ETSI EN 300 338-1, n.8.1,a,e]

e) upon word synchronization, the decoder shall use the 3-bit zero count to check the 7-bit information content of all received words. The 7-bit symbol shall be considered received in error if the 3-bit zero count is incorrect;

[ETSI EN 300 338-1, n.8.1,a,e]

Scenario	Legend
TestH_2-9-1	Is not required
TestH_2-9-2	Is not required
TestH_2-9-3	Is not required
TestH_2-9-4	Is not required
TestH_2-9-5	Is not required

Method of measurement and required results

The EUT and TE are connected. The TE generates call sequences «Distress acknowledgement». During the transmission, the TE simultaneously generates single bit errors in ten-bit codes of one character in the sequence in DX and RX positions.

TestH_2-9-1.scn

a) alternatively in 7 identical information bits in DX and RX positions; (TEST 51 - TEST 57)
TEST-51H-bit 1 DX and bit 1 RX (Character MI from Self MMSI 39-44)
TEST-52H-bit 2 DX and bit 2 RX (Character MI from Self MMSI 39-44)
TEST-53H-bit 3 DX and bit 3 RX (Character MI from Self MMSI 39-44)
TEST-54H-bit 4 DX and bit 4 RX (Character MI from Self MMSI 39-44)
TEST-55H-bit 5 DX and bit 5 RX (Character MI from Self MMSI 39-44)
TEST-56H-bit 6 DX and bit 6 RX (Character MI from Self MMSI 39-44)
TEST-57H-bit 7 DX and bit 7 RX (Character MI from Self MMSI 39-44)

TestH_2-9-2.scn

b) alternatively in 7 different information bits in DX and RX positions; (TEST 58 - TEST 64)
TEST-58H-bit 1 DX and bit 7 RX (Character MI from Self MMSI 39-44)
TEST-59H-bit 1 DX and bit 6 RX (Character MI from Self MMSI 39-44)
TEST-60H-bit 1 DX and bit 5 RX (Character MI from Self MMSI 39-44)
TEST-61H-bit 1 DX and bit 4 RX (Character MI from Self MMSI 39-44)
TEST-62H-bit 1 DX and bit 3 RX (Character MI from Self MMSI 39-44)
TEST-63H-bit 1 DX and bit 2 RX (Character MI from Self MMSI 39-44)
TEST-64H-bit 7 DX and bit 1 RX (Character MI from Self MMSI 39-44)

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TestH_2-9-3.scn

c) alternatively in 3 identical check bits in DX and RX positions; (TEST 65 - TEST 67)

TEST-65H-bit 8 DX and bit 8 RX (Character MI from Self MMSI 39-44)
TEST-66H-bit 9 DX and bit 9 RX (Character MI from Self MMSI 39-44)
TEST-67H-bit 10 DX and bit 10 RX (Character MI from Self MMSI 39-44)

TestH_2-9-3.scn

d) alternatively in 3 different check bits in DX and RX positions; (TEST 68 - TEST 70)

TEST-68H-bit 8 DX and bit 10 RX (Character MI from Self MMSI 39-44)
TEST-69H-bit 8 DX and bit 9 RX (Character MI from Self MMSI 39-44)
TEST-70H-bit 10 DX and bit 8 RX (Character MI from Self MMSI 39-44)

TestH_2-9-4.scn

e) alternatively in 7 information bits in DX и 3 check bits in RX position; (TEST 71 - TEST 77)

TEST-71H-bit 1 DX and bit 8 RX (Character MI from Self MMSI 39-44)
TEST-72H-bit 2 DX and bit 9 RX (Character MI from Self MMSI 39-44)
TEST-73H-bit 3 DX and bit 10 RX (Character MI from Self MMSI 39-44)
TEST-74H-bit 4 DX and bit 8 RX (Character MI from Self MMSI 39-44)
TEST-75H-bit 5 DX and bit 9 RX (Character MI from Self MMSI 39-44)
TEST-76H-bit 6 DX and bit 10 RX (Character MI from Self MMSI 39-44)
TEST-77H-bit 7 DX and bit 8 RX (Character MI from Self MMSI 39-44)

f) alternatively in 3 check bits in DX position и 7 information bits in RX position. (TEST 78 - TEST 84)

TestH_2-9-5.scn

TEST-78H-bit 8 DX and bit 1 RX (Character MI from Self MMSI 39-44)
TEST-79H-bit 9 DX and bit 2 RX (Character MI from Self MMSI 39-44)
TEST-80H-bit 10 DX and bit 3 RX (Character MI from Self MMSI 39-44)
TEST-81H-bit 8 DX and bit 4 RX (Character MI from Self MMSI 39-44)
TEST-82H-bit 9 DX and bit 5 RX (Character MI from Self MMSI 39-44)
TEST-83H-bit 10 DX and bit 6 RX (Character MI from Self MMSI 39-44)
TEST-84H-bit 8 DX and bit 7 RX (Character MI from Self MMSI 39-44)

Verify that:

In all *a* - *f* cases the EUT should detect mutilations inserted in the sequence.

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N	Single bit errors in ten-bit codes of one character in the sequence in DX and RX positions	Detect		Result		Comment
		YES	NO	YES	NO	
1	Alternatively in 7 identical information bits in DX and RX positions: EUT should detect mutilations [ETSI EN 300 338-1, n.8.1,e]	X		X		
2	Alternatively in 7 different information bits in DX and RX positions: EUT should detect mutilations [ETSI EN 300 338-1, n.8.1,e]	X		X		
3	Alternatively in 3 identical check bits in DX and RX positions: EUT should detect mutilations [ETSI EN 300 338-1, n.8.1,e]	X		X		
4	Alternatively in 3 different check bits in DX and RX positions: EUT should detect mutilations [ETSI EN 300 338-1, n.8.1,e]	X		X		
5	Alternatively in 7 information bits in DX position and 3 check bits in RX position: EUT should detect mutilations [ETSI EN 300 338-1, n.8.1,e]	X		X		
6	Alternatively in 3 check bits in DX position and 7 information bits in RX position: EUT should detect mutilations [ETSI EN 300 338-1, n.8.1,e]	X		X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

11.5. Decoder's ability to correct mutilate-type errors in the ten-bit code

[ITU-R M.493-13, Annex 1, n.1.1]
[ETSI EN 300 338-1(2010-02), n.8.1,i]

i) for those words that are sent duplicated in the five-word time diversity pattern, the symbol shall be considered received in error if both of the symbols are received in error or both are received error free and are not equal;

[ETSI EN 300 338-1(2010-02), n.8.1,i]

Scenario	Legend
TestH_2-10-1	Is not required
TestH_2-10-2	Is not required
TestH_2-10-3	Is not required

Method of measurement and required results

The EUT and TE are connected. The TE generates call «Distress acknowledgement». During the transmission, the TE generates single bit errors in ten-bit codes in one DX or RX position, leaving the other (DX or RX) intact.

TestH_2-10-1.scn

a) alternatively in 7 information bits in DX position;

(TEST 85 - TEST 91)

TEST-85H-bit 1 DX (Character MI from Self MMSI 39)
TEST-86H-bit 2 DX (Character MI from Self MMSI 39)
TEST-87H-bit 3 DX (Character MI from Self MMSI 39)
TEST-88H-bit 4 DX (Character MI from Self MMSI 39)
TEST-89H-bit 5 DX (Character MI from Self MMSI 39)
TEST-90H-bit 6 DX (Character MI from Self MMSI 39)
TEST-91H-bit 7 DX (Character MI from Self MMSI 39)

b) alternatively in 7 information bits in RX position;

(TEST 92 - TEST 98)

TestH_2-10-2.scn

TEST-92H-bit 1 RX (Character MI from Self MMSI 44)
TEST-93H-bit 2 RX (Character MI from Self MMSI 44)
TEST-94H-bit 3 RX (Character MI from Self MMSI 44)
TEST-95H-bit 4 RX (Character MI from Self MMSI 44)
TEST-96H-bit 5 RX (Character MI from Self MMSI 44)
TEST-97H-bit 6 RX (Character MI from Self MMSI 44)
TEST-98H-bit 7 RX (Character MI from Self MMSI 44)

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Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
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TestH_2-10-3.scn

c) alternatively in 3 check bits in DX position;

(TEST 99 - TEST 101)

TEST-99H-bit 8 DX (Character MI from Self MMSI 39)
TEST-100H-bit 9 DX (Character MI from Self MMSI 39)
TEST-101H-bit 10 DX (Character MI from Self MMSI 39)

TestH_2-10-3.scn

d) alternatively in 3 check bits in RX positions;

(TEST 102 - TEST 104)

TEST-102H-bit 8 RX (Character MI from Self MMSI 44)
TEST-103H-bit 9 RX (Character MI from Self MMSI 44)
TEST-104H-bit 10 RX (Character MI from Self MMSI 44)

Result required.

Verify that:

In all *a* - *f* cases the EUT should correct the inserted mutilations. The transmitted and received sequences should be identical. The recieved sequence should indicate no message errors.

N	Position of single bit errors in ten-bit codes in one DX or RX	Correct		Result		Comment
		YES	NO	YES	NO	
1	Alternatively in 7 information bits in DX position: EUT should correct the inserted mutilations. [ETSI EN 300 338-1, n.8.1,i]	X		X		
2	Alternatively in 7 information bits in RX position: EUT should correct the inserted mutilations [ETSI EN 300 338-1, n.8.1,i]	X		X		
3	Alternatively in 3 check bits in DX position: EUT should correct the inserted mutilations [ETSI EN 300 338-1, n.8.1,i]	X		X		
4	Alternatively in 3 check bits in RX position: EUT should correct the inserted mutilations [ETSI EN 300 338-1, n.8.1,i]	X		X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
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11.6. Decoder's ability to detect wrong characters in the legal ten-bit code set

[ITU-R M.493-13, Annex 1, n.1.1]
[ETSI EN 300 338-1(2010-02), n.8.1,i]

i) for those words that are sent duplicated in the five-word time diversity pattern, the symbol shall be considered received in error if both of the symbols are received in error or both are received error free and are not equal;

[ETSI EN 300 338-1, n.8.1,i]

Scenario	Legend
TestH_2-11-1	Is not required
TestH_2-11-2	Is not required

Method of measurement and required results

The EUT and TE are connected. The TE generates call «Distress acknowledgement». During the transmission, the TE mutilates one character in the legal ten-bit code set (*) (wrong character in one DX or RX position)

TestH_2-11-1.scn

a) wrong character in DX and correct character in RX position;

(TEST 105 - TEST 109)

TEST-105H DX Category =100 Category RX=112
TEST-106H DX Self MMSI MI =042 Self MMSI MI RX =027
TEST-107H DX Longitude =000 Longitude RX =054
TEST-108H DX UTC =000 UTC RX =012
TEST-109H DX Comm =109 Comm RX =113

TestH_2-11-2.scn

b) wrong character in RX and correct character in DX position.

(TEST 110 - TEST 114)
(TEST 105 - TEST 109)

TEST-110H DX Category =112 Category RX=100
TEST-111H DX Self MMSI MI =027 Self MMSI MI RX =042
TEST-112H DX Longitude =054 Longitude RX =000
TEST-113H DX UTC =012 UTC RX =000
TEST-114H DX Comm =113 Comm RX =109

Thus different legal 00-127 set characters occur in DX and RX positions, with one error-free.

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Result required.

In all *a* and *b* cases the EUT should detect errors inserted in the sequence.

Verify that:

(*) Several bits in the ten-bit code are mutilated. Such mutilations generate a code appearing in the legal ten-bit code set [Table 1, Rec.493, Ann.1]. Thus one position contains the correct and the other the wrong character.

Results

N	Wrong character in one DX or RX position	Detect		Result		Comment
		YES	NO	YES	NO	
1	Wrong character in DX and correct character in RX position: the EUT should detect errors [ETSI EN 300 338-1, n.8.1,i]	X		X		
2	Wrong character in RX and correct character in DX position: the EUT should detect errors [ETSI EN 300 338-1, n.8.1,i]	X		X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

11.7. Decoder's ability to detect errors using an error-check character

[ITU-R M.493-13, Annex 1, n.10]
[ETSI EN 300 338-1, n.8.1,k]

k) the equipment shall compute a local ECC if a set of received information symbols can be obtained error-free;

[ETSI EN 300 338-1, n.8.1,k]

Scenario	Legend
TestH_2-12-1	Is not required
TestH_2-12-2	Is not required

Method of measurement and required results

The EUT and TE are connected. The TE generates call sequences «Distress acknowledgement». During the transmission the TE generates

TestH_2-12-1.scn

a) identical mutilations within the legal ten-bit code set of one information character in the sequence in DX and RX positions.

(TEST 115 - TEST 119)

TEST-115H- DX wrong character 042 RX wrong character 042
Self MMSI character MI (Correct MI 027)
TEST-116H- DX wrong character 107 RX wrong character 107
Nature of distress (Correct character 102)
TEST-117H- DX wrong character 000 RX wrong character 000
Longitude (Correct character 054)
TEST-118H- DX wrong character 043 RX wrong character 043
UTC (Correct character 034)
TEST-119H- DX wrong character 109 RX wrong character 109
Communication (Correct character 113)

TestH_2-12-2.scn

b) identical mutilations within the legal ten-bit code set of error-check character in DX and RX positions

for call sequence sequences «Distress acknowledgement» (TEST 120);
TEST-120H- DX wrong character 000 RX wrong character 000
ECC (Correct character 072)

mutilations ten-bit code set of error-check character in DX and RX positions
for call sequence sequences «Distress acknowledgement» (TEST 121);
TEST-121H- DX mutilated character RX mutilated character
ECC (Correct character 100)

Thus identical legal 00-127 set wrong characters occur in DX and RX positions.

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Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
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Result required.

Verify that:

TheEUT should detect errors inserted in the sequence in cases *a* and *b*.

Results

N	Errors position	Detect		Result		Comment
		YES	NO	YES	NO	
1	Identical mutilations within the legal ten-bit code set of one information character in the sequence in DX and RX position: TheEUT should detect errors [ETSI EN 300 338-1, n.8.1,k]	X		X		
2	Identical mutilations within the legal ten-bit code set of ECC character in DX and RX positions: TheEUT should detect errors. [ETSI EN 300 338-1, n.8.1,k]	X		X		
3	Mutilations ten-bit code set of ECC character in DX and RX positions: TheEUT should detect errors [ETSI EN 300 338-1, n.8.1,k]	X		X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

11.8. Decoder's ability to correct serial mutilate-type errors in ten-bit code

[ITU-R M.493-13, Annex 1, n.1.1]
[ETSI EN 300 338-1(2010-02), n.8.1,e,i]

e) upon word synchronization, the decoder shall use the 3-bit zero count to check the 7-bit information content of all received words. The 7-bit symbol shall be considered received in error if the 3-bit zero count is incorrect;
i) for those words that are sent duplicated in the five-word time diversity pattern, the symbol shall be considered received in error if both of the symbols are received in error or both are received error free and are not equal;

[ETSI EN 300 338-1, n.8.1,e,i]

Scenario	Legend
TestH_2-13-1	Is not required

Method of measurement and required results

The EUT and TE are connected. The TE generates call sequences «all ships» category «safety». During the transmission the TE generates

TestH_2-13-1.scn

a) mutilations of all characters in DX positions, excluding phasing sequence, and format specifier characters;

(TEST-122H)

b) mutilations of all characters in RX positions, excluding phasing sequence, and format specifier characters;

(TEST-123H)

c) mutilations of different characters in DX and RX positions, excluding phasing sequence, and format specifier characters.

(TEST-124H).

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
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Result required.

The EUT should correct the inserted mutilations in *a* - *c* cases. The transmitted and received sequences should be identical. The received sequence should indicate no message errors. Verify that:

N	Errors position	Correct		Result		Comment
		YES	NO	YES	NO	
1	The EUT should correct the inserted mutilations of all characters in DX positions, exluding phasing sequence, and format specifier. [ETSI EN 300 338-1, n.8.1,e,i]	X		X		
2	The EUT should correct the inserted mutilations in RX positions, exluding phasing sequence, and format specifier. [ETSI EN 300 338-1, n.8.1,e,i]	X		X		
3	The EUT should correct the inserted mutilations of all characters in DX and RX positions, exluding phasing sequence, and format specifier. [ETSI EN 300 338-1, n.8.1,e,i]	X		X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

11.9. Mutilated distress call reception

[ETSI EN 300 338-1, n.8.1,n,o]
[ETSI EN 300 338-1, n.8.2.1]

n) equipment that supports the ITU-R recommendation M.821 [i.5] extensions shall be able to decode the standard part of the DSC message even when the extension is received in error;
o) if one of the four end of sequence symbols is not received error free at the end of the standard DSC message the message shall be rejected. However, if the end of sequence character is received correctly at the end of the enhanced extension the equipment shall not be prevented from using the latter end of sequence symbol to identify and accept the standard (and thus entire) message.

[ETSI EN 300 338-1, n.8.1,n,o]

This clause describes the handling of received DSC messages that contain errors in any of the information characters except the format, address (the destination MMSI, group MMSI or area), and end of sequence characters which shall be received correctly in order for the message to be accepted.
Automated procedures shall indicate all displayed information characters that are in error. Individual elements of any MMSIs and any position information that are in error shall be indicated by a special symbol (manufacturer defined) at the place of the error.

[ETSI EN 300 338-1, n.8.2.1]

Scenario	**Legend**
TestH_2-14-1	Is not required

Method of measurement and required results

TestH_2-14-1.scn

The EUT and TE are connected. The TE generates a single-sequence «distress call» attempt. During the transmission, the TE simultaneously mutilates in DX and RX positions

a) identification of ship in distress (TEST 128);
b) nature of distress (TEST 129);
c) distress coordinates; (TEST 130)
d) the time when the coordinates were valid; (TEST 131)
∂) the type of communication which is preferred by station in distress character; (TEST 132)
e) error-check character. (TEST 133)
f) expansion data specifier (TEST 193)
g) latitude field (expansion sequence); (TEST 194)
h) longitude field (expansion sequence); (TEST 195)
i) EOS in expansion sequence; (TEST 196)
j) error-check character (expansion sequence); (TEST 197)

TheEUT receives the mutilated sequence.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Result required.

Verify that:

The EUT should receive the transmitted distress call, reporting message error.

	Errors position	Reception		Result		Comment
		YES	NO	YES	NO	
1	The EUT should receive the transmitted distress call with mutilations of identification (MMSI) of ship in distress [ETSI EN 300 338-1, n.8.2.1]	X		X		
2	The EUT should receive the transmitted distress call with mutilations of Nature of Distress. [ETSI EN 300 338-1, n.8.2.1]	X		X		
3	The EUT should receive the transmitted distress call with mutilations of Distress Position. [ETSI EN 300 338-1, n.8.2.1]	X		X		
4	The EUT should receive the transmitted distress call with mutilations of Time position valid in distress. [ETSI EN 300 338-1, n.8.2.1]	X		X		
5	The EUT should receive the transmitted distress call with mutilations of the type of communication which is preferred by station in distress. [ETSI EN 300 338-1, n.8.2.1]	X		X		
6	The EUT should receive the transmitted distress call with mutilations of error-check character. [ETSI EN 300 338-1, n.8.2.1]	X		X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

	Expansion sequence	Reception		Result		Comment
		YES	NO	YES	NO	
1	The EUT should receive the transmitted at least standard part of distress call with mutilations of format specifier in expansion sequence. [ETSI EN 300 338-1, n.8.1,n,o] [ETSI EN 300 338-1, n.8.2.1]	X		X		
2	The EUT should receive the transmitted at least standard part of distress call with mutilations of latitude of position in expansion sequence. [ETSI EN 300 338-1, n.8.1,n,o] [ETSI EN 300 338-1, n.8.2.1]	X		X		
3	The EUT should receive the transmitted at least standard part of distress call with mutilations of longitude of position in expansion sequence. [ETSI EN 300 338-1, n.8.1,n,o] [ETSI EN 300 338-1, n.8.2.1]	X		X		
4	The EUT should receive the transmitted at least standard part of distress call with mutilations of EOS in expansion sequence. [ETSI EN 300 338-1, n.8.1,n,o] [ETSI EN 300 338-1, n.8.2.1]	X		X		
5	The EUT should receive the transmitted at least standard part of distress call with mutilations of ECC in expansion sequence [ETSI EN 300 338-1, n.8.1,n,o] [ETSI EN 300 338-1, n.8.2.1]	X		X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

11.10. Decoding distress call attempt with one mutilated sequence

[ETSI EN 300 338-1 (2010-02), n.8.1,l]
[ETSI EN 300 338-1 (2010-02), n.8.2.2]

l) if the DSC message is a distress alert, the equipment shall follow the decoding techniques for each individual message and successively attempt to correct any information characters received in error in previous messages with the corresponding correctly received characters in the latest message;

[ETSI EN 300 338-1 (2010-02), n.8.1,l]

Scenario	Legend
TestH_2-15-1	Is not required

Method of measurement and required results

TestH_2-15-1.scn

The EUT and TE are connected. The TE generates a «distress call» attempt consisting of five consecutive re-transmissions. During the transmission, the TE simultaneously mutilate self identification of ship in distress in DX and RX positions

in the first character, first sequence; (TEST-134V)
in the second character, second sequence; (TEST-135V)
in the third character, third sequence; (TEST-136V)
in the fourth character, four sequence; (TEST-137V)
in the fifth character, fifth sequence. (TEST-138V)

The EUT receives the distress call attempt containing the mutilated sequence.

Result required.

Verify that:
The EUT should receive the transmitted distress call indicating no message errors.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

N	Errors position	Reception		Result		Comment
		YES	NO	YES	NO	
1	The TE simultaneously mutilates identification of ship in distress in DX and RX positions in the first character (in MMSI) of first sequence. The EUT should receive the transmitted distress call indicating no message errors. [ETSI EN 300 338-1, n.8.1,l]	X		X		
2	The TE simultaneously mutilates identification of ship in distress in DX and RX positions in the second character (in MMSI) of second sequence. The EUT should receive the transmitted distress call indicating no message errors. [ETSI EN 300 338-1, n.8.1,l]	X		X		
3	The TE simultaneously mutilates identification of ship in distress in DX and RX positions in the third character (in MMSI) of third sequence. The EUT should receive the transmitted distress call indicating no message errors. [ETSI EN 300 338-1, n.8.1,l]	X		X		
4	The TE simultaneously mutilates identification of ship in distress in DX and RX positions in the fourth character (in MMSI) of fourth sequence. The EUT should receive the transmitted distress call indicating no message errors. [ETSI EN 300 338-1, n.8.1,l]	X		X		
5	The TE simultaneously mutilates identification of ship in distress in DX and RX positions in the fifth character (in MMSI) of fifth sequence. The EUT should receive the transmitted distress call indicating no message errors. [ETSI EN 300 338-1, n.8.1,l]	X		X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

11.11. Iterative decoding process with adequate provision

[ITU-R M.493-13, Annex 1, nos 11.1, 1.6.2]
[ETSI EN 300 338-1(2010-02), n.8.1,l]
[ETSI EN 300 338-1(2010-02), n.8.2.2]

l) if the DSC message is a distress alert, the equipment shall follow the decoding techniques for each individual message and successively attempt to correct any information characters received in error in previous messages with the corresponding correctly received characters in the latest message;

[ETSI EN 300 338-1, n.8.1,l]

Scenario	Legend
TestH_2-16-1	Is not required

Method of measurement and required results

TestH_2-16-1.scn

The EUT and TE are connected. The TE generates a «distress call» attempt consisting of five consecutive re-transmissions. During the transmission, the TE simultaneously mutilates «distress coordinates» message in DX and RX positions.

(TEST-190V)

in the first character, first sequence;
in the second character, second sequence;
in the third character, third sequence;
in the fourth character, fourth sequence;
in the fifth character, fifth sequence.
EUT will receive the distress call attempt with mutilated sequences.

Result required.

Verify that:
EUT shall decode the transmitted distress call indicating no message errors.

N	Errors position	Reception		Result		Comment
		YES	NO	YES	NO	
1	Iterative decoding process with adequate provision. The TE simultaneously mutilates “distress coordinates” message in DX and RX positions. EUT shall decode the transmitted distress call indicating no message errors. [ITU-R M.493-13, Annex 1, nos 11.1, 1.6.2] [ETSI EN 300 338-1(2010-02), n.8.1,l] [ETSI EN 300 338-1(2010-02), n.8.2.2]	X		X		(53)

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(53) (E1339)

TE transmitted single frequency distress call attempt consisting of five consecutive sequences. During the transmission, the TE simultaneously mutilates «distress coordinates» message in DX and RX positions:

in the first character, first sequence;
in the second character, second sequence;
in the third character, third sequence;
in the fourth character, fourth sequence;
in the fifth character, fifth sequence.

EUT received all five distress calls band correct errors.

However, the equipment incorrectly indicates that received in an distress attempt only three calls.

[ITU-R M.493-13, Annex 1, nos 11.1, 1.6.2]
[ETSI EN 300 338-1(2010-02), n.8.1,l]
[ETSI EN 300 338-1(2010-02), n.8.2.2]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

11.12. Decoding end of sequence with mutilations

[ITU-R M.493-13, Annex 1,n.4.2]
[ETSI EN 300 338-1 (2010-02), n.8.1,m,n,o]

m) the decoder shall recognize the end of sequence pattern as the termination of a standard DSC message, regardless of what follows, and shall be able to decode the standard part of the message;
n) equipment that supports the ITU-R recommendation M.821 [i.5] extensions shall be able to decode the standard part of the DSC message even when the extension is received in error;
o) if one of the four end of sequence symbols is not received error free at the end of the standard DSC message the message shall be rejected. However, if the end of sequence character is received correctly at the end of the enhanced extension the equipment shall not be prevented from using the latter end of sequence symbol to identify and accept the standard (and thus entire) message.

[ETSI EN 300 338-1, n.8.1]

Scenario	**Legend**
TestV12H_0015.scn	Is not required

Method of measurement and required results

TestV12H_0015.scn Distress Call

The EUT and TE are connected. The TE generates a «distress call» attempt consisting of five consecutive re-transmissions. During the transmission, the TE simultaneously mutilate EOS characters:
MMSI Ship in Distress: 273000001 – All EOS w/o errors
MMSI Ship in Distress: 273000002 – 1 EOS with error
MMSI Ship in Distress: 273000003 – 1,3 EOS with error
MMSI Ship in Distress: 273000004 – 2,3,4 EOS with error
MMSI Ship in Distress: 273000005 – 1,3,4 EOS with error
MMSI Ship in Distress: 273000006 – 1,2,4 EOS with error
MMSI Ship in Distress: 273000007 – 1,2,3 EOS with error
MMSI Ship in Distress: 273000008 – 1,2,3,4 EOS with error (all EOS characters with errors)

Verify that:
If one of four end of sequence symbols is not received error free at the end of standard DSC message shall be rejected.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

	EOS characters	Reception		Result		Comment
		YES	NO	YES	NO	
1	DSC call shall be received. EOS symbols error free [ETSI EN 300 338-1, n.8.1,m,n,o]	X		X		
2	DSC call shall be received. EOS symbol 1with error [ETSI EN 300 338-1, n.8.1,m,n,o]	X		X		
3	DSC call shall be received. EOS symbols 1,3 with error [ETSI EN 300 338-1, n.8.1,m,n,o]	X		X		
4	DSC call shall be received. EOS symbols 2,3,4 with error [ETSI EN 300 338-1, n.8.1,m,n,o]	X		X		
5	DSC call shall be received. EOS symbols 1,3,4 with error [ETSI EN 300 338-1, n.8.1,m,n,o]	X		X		
6	DSC call shall be received. EOS symbols 1,2,4 with error [ETSI EN 300 338-1, n.8.1,m,n,o]	X		X		
7	DSC call shall be received. EOS symbols 1,2,3 with error [ETSI EN 300 338-1, n.8.1,m,n,o]	X		X		
8	DSC call shall be rejected. EOS symbols 1,2,3,4 with error [ETSI EN 300 338-1, n.8.1,m,n,o]		X	X		Should be rejected

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

11.13. Errors in received distress DSC messages

[ETSI EN 300 338-1(2010-02), n.8.2.1]

Definition

This test checks how the EUT responds to received distress DSC messages that have errors. The key items are to make sure that relays and acknowledgements that would normally be based on the received DSC message are not allowed until the critical errors are corrected and that any alarms triggered by the reception of messages with critical errors are self-terminating (class A/B).

Scenario	Legend
TestV12H_0016.scn	*TestH_0N0E*

TestV12H_0016.scn

00:00 TE sends Distrss relay with error in the MMSI ship in distress;
03:00 TE sends the same Distrss relay with error in the MMSI ship in distress;
06:00 TE sends Distrss relay without error;
09:00 TE send Distrss relay concering the same distress information and the same error in the MMSI ship in distress but different sender.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) Set both the EUT and TE in standby. On the TE compose a DROBOSE with the following distress information: the position and time of position is that of the TE, the means of subsequent communication is radio telephone, enter any valid nature of distress, and any valid ship MMSI for the vessel in distress. Address the DROBOSE to Geographic area (HF). Bring up the option to edit the composed words of the DSC message. Edit the message such that the DX and RX positions of the first word of the MMSI of the vessel in distress are in error (make the 3-bit zero count disagree with the 7-bit symbol value). Transmit the edited DSC message and verify that:

TestV12H_0016.scn
00:00

Item Distress relay to Geographic area (1st character of MMSI ship in distress with error)	Result		Com-ment
	YES	NO	
The two-tone alarm sounds and self-terminates, [ETSI EN 300 338-1, n.8.2.1] [Rec. ITU-R M.493-13, Ann.4, n.3.1.7.2]	X		
An automated procedure is initiated by the reception of a DSC message that contains critical errors, [ETSI EN 300 338-1, n.8.2.1]	X		
The MMSI of the vessel in distress is displayed with error indicators in the first two digits, [ETSI EN 300 338-1, n.8.2.1]	X		
The operator is **unable** to send a distress relay acknowledgement, [ETSI EN 300 338-1, n.8.2.1]	X		
The operator is **unable** to send a distress relay, [ETSI EN 300 338-1, n.8.2.1]	X		
The operator is **able** to send a DROBOSE, [ETSI EN 300 338-1, n.8.2.1]	X		
The option of terination of procedure is available [ETSI EN 300 338-1, n.8.2.1]	X		
You can speak to the EUT from the TE, [ETSI EN 300 338-1, n.8.2.1]	X		
You can speak to the TE from the EUT. [ETSI EN 300 338-1, n.8.2.1]	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Resend the identical DROBOSE with the edited error from the TE. Verify that:

TestV12H_0016.scn
03:00

Item **Distress relay to Geographic area** **(1st character of MMSI ship in distress with error)**	**Result**		**Com-ment**
	YES	**NO**	
The self-terminating alarm sounds, [ETSI EN 300 338-1, n.8.2.1]	**X**		

c) On the TE correct the error and resend the DROBOSE. Verify that:

TestV12H_0016.scn
06:00

Item **Distress relay to Geographic area** **(MMSI ship in distress free of errors)**	**Result**		**Com-ment**
	YES	**NO**	
the two-tone alarm sounds, [ETSI EN 300 338-1, n.8.2.1]	**X**		
the reason for and means to silence the alarm is displayed,	**X**		
the alarm can only be silenced manually,	**X**		
the distress information is displayed error free. [ETSI EN 300 338-1, n.8.2.1]	**X**		
the MMSI of the vessel in distress is displayed and all 9 digits are correct,	**X**		
the operator is **able** to send a distress relay acknowledgement to an all ships (VHF), [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **able** to send a distress relay. [ETSI EN 300 338-1, n.8.2.1]	**X**		
The operator is **able** to send a DROBOSE, [ETSI EN 300 338-1, n.8.2.1]	**X**		
The option of terination of procedure is available [ETSI EN 300 338-1, n.8.2.1]	**X**		
You can speak to the EUT from the TE, [ETSI EN 300 338-1, n.8.2.1]	**X**		
You can speak to the TE from the EUT. [ETSI EN 300 338-1, n.8.2.1]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
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d) Change the MMSI of the TE, recompose the DROBOSE, make the same error, and transmit. Verify that:

TestV12H_0016.scn
09:00

Item **Distress relay to Geographic area from other sender MMSI (1st character of MMSI ship in distress with error)**	**Result**		**Com-ment**
	YES	**NO**	
the self-terminating alarm sounds, [ETSI EN 300 338-1, n.8.2.1]	**X**		
the distress information is displayed error free. [ETSI EN 300 338-1, n.8.2.1]	**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

11.14. Handling incomming Distress DSC messages with errors test

[ETSI EN 300 338-1(2010-02), n.8.2.2]

A DSC message with errors in the ECC or information characters is considered a non distress DSC message by an automated procedure unless:
a) the format character is distress (112) which makes the message a distress alert; or
b) the format character is all ships and the number of information characters excluding the enhanced position extension is 23; or
c) the format character is area, group, or individual and the number of information characters excluding the enhanced position extension is 28 which makes the message a relay; and
d) if (b) is true and the telecommand 1 parameter is received in error and the end of sequence character is no acknowledgement requested, the DSC message shall be assumed to be a relay (it could be a distress alert acknowledgment) and an error in DSC message type shall be indicated.

[ETSI EN 300 338-1. n.8.2.2]

Scenario	**Legend**
TestV12H_0017.scn	*TestH_0N0E*
TestV12H_0018.scn	*TestH_0N0E*
TestV12H_0019.scn	*TestH_0N0E*
TestV12H_0020.scn	*TestH_0N0E*
TestV12H_0021.scn	*TestH_0N0E*

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) Reset EUT into Standby. Send Distress call with error Self ID ship in distress, Nature of distress, Distress coordinates, Time, Subsequent communication. The format specifier (112) is free of error. Verify that:

TestV12H_0017.scn
00:00

Item **Distress call** **Self ID ship in distress, Nature of distress, Distress coordinates, Time, Subsequent communication with error** **(format specifier free errors only)**	**Result**		**Com-ment**
	YES	**NO**	
the two-tone alarm sounds and self-terminates, [ETSI EN 300 338-1, n.8.2.1] [Rec. ITU-R M.493-13, Ann.4, n.3.1.7.2]	**X**		
an distress automated procedure is initiated by the reception of a DSC message that contains critical errors, [ETSI EN 300 338-1, n.8.2.2,a]	**X**		
The DSC message is identified as a distress alert, [(a*) the format character is distress (112) which makes the message a distress alert*] [ETSI EN 300 338-1(2009-12), n.8.2.2,a]	**X**		
the Self ID ship in distress, Nature of distress, Distress coordinates, Time, Subsequent communication are displayed with error indicators, [ETSI EN 300 338-1, n.8.2.1]	**X**		
The operator is made aware of the fact the received DSC message has (critical) errors, [ETSI EN 300 338-1, n.8.2.2,a]	**X**		
the operator is **unable** to send a distress acknowledgement, [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay. [ETSI EN 300 338-1, n.8.2.1]	**X**		
The operator is **able** to send a DROBOSE, [ETSI EN 300 338-1, n.8.2.1]	**X**		
you can speak to the EUT from the TE,	**X**		
you can speak to the TE from the EUT.	**X**		

NOTE: the format character is distress (112) which makes the message a distress alert

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Reset EUT into Standby. Send from TE Distress relay to Geographic area with character errors Category, Self ID, Self ID ship in distress, Nature of distress, Distress coordinates, Time, Subsequent communication (errors free format specifier 102, address only). Verify that:

TestV12H_0018.scn
00:00

Item **Distress relay call to Geographic area (format specifier, adress free errors only)**	**Result**		**Com-ment**
	YES	**NO**	
The two-tone alarm sounds and self-terminates, [ETSI EN 300 338-1(2010-02), n.8.2.1] [Rec. ITU-R M.493-13, Ann.4, n.3.1.7.2]	**X**		
An distress automated procedure is initiated by the reception of a DSC message that contains critical errors,	**X**		
The DSC message is identified as a distress relay, [(*c) the format character is area, group, or individual and the number of information characters excluding the enhanced position extension is 28 which makes the message a relay*] [ETSI EN 300 338-1(2010-02), n.8.2.2,c]	**X**		
The operator is made aware of the fact the received DSC message has (critical) errors,	**X**		
The category, Self ID, Self ID ship in distress, Nature of distress, Distress coordinates, Time, Subsequent communication are displayed with error indicators,	**X**		
The operator is made aware of the fact the received DSC message has (critical) errors,	**X**		
the operator is **unable** to send a distress acknowledgement, [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay. [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay acknowledgement to an all ships [ETSI EN 300 338-1, n.8.2.1]	**X**		
The operator is **able** to send a DROBOSE, [ETSI EN 300 338-1, n.8.2.1]	**X**		
you can speak to the EUT from the TE,	**X**		
you can speak to the TE from the EUT.	**X**		

NOTE: the format character is Geographic area and the number of information characters excluding the enhanced position extension is 28;
Left telecommand 112 – for identify Distress relay (no ack)

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

c) Reset EUT into Standby. Send from TE Distress acknowledgement with error characters Category, Self ID, Self ID ship in distress, Nature of distress, Distress coordinates, Time, Subsequent communication (errors free format specifier 116 and telecommand 110 only). Verify that:

TestV12H_0019.scn
00:00

Item **Distress acknowledgement** **(format specifier and telecommand free errors only)**	**Result**		**Com-ment**
	YES	**NO**	
The two-tone ACK alarm sounds and self-terminates, [ETSI EN 300 338-1(2010-02), n.8.2.1] [Rec. ITU-R M.493-12, Ann.4, n.3.1.7.2]		**X**	(54)
An distress automated procedure is initiated by the reception of a DSC message that contains critical errors,	**X**		
the DSC message is identified as a distress acknowledgement, [(*b) the format character is all ships and the number of information characters excluding the enhanced position extension is 23*] [ETSI EN 300 338-1(2010-02), n.8.2.2,d]	**X**		
The category, Self ID, Self ID ship in distress, Nature of distress, Distress coordinates, Time, Subsequent communication are displayed with error indicators,	**X**		
The operator is made aware of the fact the received DSC message has (critical) errors,	**X**		
the operator is **unable** to send a distress acknowledgement, [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay. [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay acknowledgement to an all ships, [ETSI EN 300 338-1, n.8.2.1]	**X**		
The operator is **able** to send a DROBOSE, [ETSI EN 300 338-1, n.8.2.1]	**X**		
you can speak to the EUT from the TE,	**X**		
you can speak to the TE from the EUT.	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

d) Reset EUT into Standby. Send from TE Distress relay to individual station EUT with eror characters Category, Self ID, Telecommand, Self ID ship in distress, Nature of distress, Distress coordinates, Time, Subsequent communication (errors free format specifier 120 and address only).

TestV12H_0020.scn (EUT MMSI is 273000000)
00:00

Item **Distress relay call to individual station** **(format specifier and address free errors only)**	**Result**		**Com-ment**
	YES	**NO**	
The two-tone alarm sounds and self-terminates, [ETSI EN 300 338-1(2010-02), n.8.2.1] [Rec. ITU-R M.493-12, Ann.4, n.3.1.7.2]	**X**		
An distress automated procedure is initiated by the reception of a DSC message that contains critical errors,	**X**		
the DSC message is identified as a **distress relay** to individual station, [(*c) the format character is area, group, or individual and the number of information characters excluding the enhanced position extension is 28 which makes the message a relay*] [ETSI EN 300 338-1(2010-02), n.8.2.2,c]	**X**		
The category, Self ID, telecommand, Self ID ship in distress, Nature of distress, Distress coordinates, Time, Subsequent communication are displayed with error indicators,	**X**		
The operator is made aware of the fact the received DSC message has (critical) errors,	**X**		
the operator is **unable** to send a distress acknowledgement, [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay. [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay acknowledgement to an all ships, [ETSI EN 300 338-1, n.8.2.1]	**X**		
The operator is **able** to send a DROBOSE, [ETSI EN 300 338-1, n.8.2.1]	**X**		
you can speak to the EUT from the TE,	**X**		
you can speak to the TE from the EUT.	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

e) Reset EUT into Standby. Send from TE Distress relay to all ships with error characters Category, Self ID, Telecommand, Self ID ship in distress, Nature of distress, Distress coordinates, Time, Subsequent communication (errors free format specifier 116 only).

TestV12H_0021.scn
00:00

Item **Distress relay call to all ships** **(format specifier free errors only)**	**Result**		**Com-ment**
	YES	**NO**	
The two-tone alarm sounds and self-terminates, [Rec. ITU-R M.493-12, Ann.4, n.3.1.7.2]	**X**		
An distress automated procedure is initiated by the reception of a DSC message that contains critical errors,	**X**		
the DSC message is identified as a **distress relay**, [*(d) if (b) is true and the telecommand 1 parameter is received in error and the end of sequence character is no acknowledgement requested, the DSC message shall be assumed to be a relay (it could be a distress alert acknowledgment) and an error in DSC message type shall be indicated.*] [ETSI EN 300 338-1(2010-02), n.8.2.2,d]	**X**		
The category, Self ID, Self ID ship in distress, Nature of distress, Distress coordinates, Time, Subsequent communication are displayed with error indicators,	**X**		
The operator is made aware of the fact the received DSC message has (critical) errors,	**X**		
the operator is **unable** to send a distress acknowledgement, [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay. [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay acknowledgement to an all ships (VHF), [ETSI EN 300 338-1, n.8.2.1]	**X**		
The operator is **able** to send a DROBOSE, [ETSI EN 300 338-1, n.8.2.1]	**X**		
you can speak to the EUT from the TE,	**X**		
you can speak to the TE from the EUT.	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

(54) (E1340)

Automated procedure is initiated by a reception distress alert acknowledgement that contains critical errors, the aural distress ack manually silenced. While the alarm shall be distress ack self terminate.

Upon reception first distress alert acknowledgement without critical errors sounds self-terminating alarm. While when an automated procedure initiated with critical errors first receives a subsequent message without critical errors or the procedure is first able to correct the critical errors by combining received messages, the normal initiating alarm shall sound.

[ETSI EN 300 338-1, n. 8.2.1]

[ETSI EN 300 338-2, D.2]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

11.15.Handling incomming Distress relay to Individual station with errors test

[ETSI EN 300 338-1(2010-02), n.8.2.2]

A distress procedure handling an individually addressed distress relay shall not allow the sending of the acknowledgment if any one of the digits in the sender MMSI is in error.

Received distress automated procedures shall not allow the sending of any further distress DSC messages as long as any one of the current distress information characters remains in error. In that case the automated procedure shall only offer the operator the option of composing and sending a distress relay on behalf of someone else (the operator is then free to enter a best estimate of what the distress information shall be based upon the received distress information).

[ETSI EN 300 338-1(2010-02), n.8.2.2]

Scenario	**Legend**
TestV12H_0123	Is not required

00:00 Distress relay to Individual station EUT (Self ID with error)
00:01 Distress relay to Individual station EUT (MMSI Ship in distress with error)
00:02 Distress relay to Individual station EUT (Nature with error)
00:03 Distress relay to Individual station EUT (Position with error)
00:04 Distress relay to Individual station EUT (UTC time with error)
00:05 Distress relay to Individual station EUT (Communication with error)
00:06 Distress relay to Individual station EUT (ECC error)
00:07 Distress relay to Individual station EUT (free of errors)

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) Reset the EUT to standby. From the TE send a relay distress alert Individual to EUT (Self ID with error). Verify that:

TestV12H_0123

00:00

Item **Distress relay Individual** **(Error in the Self ID)**	**Result**		**Com-ment**
	YES	**NO**	
The two-tone sounds and self-terminates,	**X**		
the operator is **unable** to send a distress acknowledgement, [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay. [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay acknowledgement, [ETSI EN 300 338-1, n.8.2.2]	**X**		
The operator is **able** to send a DROBOSE, [ETSI EN 300 338-1, n.8.2.1]	**X**		
you can speak to the EUT from the TE,	**X**		
you can speak to the TE from the EUT.	**X**		

Terminate procedure.

b) Reset the EUT to standby. From the TE send a relay distress alert Individual to EUT (MMSI ship in distress with error). Verify that:

TestV12H_0123

01:00

Item **Distress relay Individual** **(Error in the MMSI ship in distress)**	**Result**		**Com-ment**
	YES	**NO**	
The two-tone sounds and self-terminates,	**X**		
the operator is **unable** to send a distress acknowledgement, [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay. [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay acknowledgement, [ETSI EN 300 338-1, n.8.2.1]	**X**		
The operator is **able** to send a DROBOSE, [ETSI EN 300 338-1, n.8.2.1]	**X**		
you can speak to the EUT from the TE,	**X**		
you can speak to the TE from the EUT.	**X**		

Terminate procedure.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

c) Reset the EUT to standby. From the TE send a relay distress alert Individual to EUT (Nature of distress with error). Verify that:

TestV12H_0123
03:00

Item **Distress relay Individual** **(Error in the Nature of distress)**	**Result**		**Com-ment**
	YES	**NO**	
The two-tone sounds and self-terminates,	**X**		
the operator is **unable** to send a distress acknowledgement, [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay. [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay acknowledgement, [ETSI EN 300 338-1, n.8.2.1]	**X**		
The operator is **able** to send a DROBOSE, [ETSI EN 300 338-1, n.8.2.1]	**X**		
you can speak to the EUT from the TE,	**X**		
you can speak to the TE from the EUT.	**X**		

Terminate procedure.

d) Reset the EUT to standby. From the TE send a relay distress alert Individual to EUT (Position with error). Verify that:

TestV12H_0123
04:00

Item **Distress relay Individual** **(Error in the Position)**	**Result**		**Com-ment**
	YES	**NO**	
The two-tone sounds and self-terminates,	**X**		
the operator is **unable** to send a distress acknowledgement, [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay. [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay acknowledgement, [ETSI EN 300 338-1, n.8.2.1]	**X**		
The operator is **able** to send a DROBOSE, [ETSI EN 300 338-1, n.8.2.1]	**X**		
you can speak to the EUT from the TE,	**X**		
you can speak to the TE from the EUT.	**X**		

Terminate procedure.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

e) Reset the EUT to standby. From the TE send a relay distress alert Individual to EUT (UTC with error). Verify that:

TestV12H_0123
05:00

Item **Distress relay Individual** **(Error in the UTC)**	**Result**		**Com-ment**
	YES	**NO**	
The two-tone sounds and self-terminates,	**X**		
the operator is **unable** to send a distress acknowledgement, [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay. [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay acknowledgement, [ETSI EN 300 338-1, n.8.2.1]	**X**		
The operator is **able** to send a DROBOSE, [ETSI EN 300 338-1, n.8.2.1]	**X**		
you can speak to the EUT from the TE,	**X**		
you can speak to the TE from the EUT.	**X**		

Terminate procedure.

f) Reset the EUT to standby. From the TE send a relay distress alert Individual to EUT (Communication with error). Verify that:

TestV12H_0123
06:00

Item **Distress relay Individual** **(Error in the Communication)**	**Result**		**Com-ment**
	YES	**NO**	
The two-tone sounds and self-terminates,	**X**		
the operator is **unable** to send a distress acknowledgement, [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay. [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is NOT **able** to send a distress relay acknowledgement, [ETSI EN 300 338-1, n.8.2.1]	**X**		
The operator is **able** to send a DROBOSE, [ETSI EN 300 338-1, n.8.2.1]	**X**		
you can speak to the EUT from the TE,	**X**		
you can speak to the TE from the EUT.	**X**		

Terminate procedure.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

g) Reset the EUT to standby. From the TE send a relay distress alert Individual to EUT (with ECC error). Verify that:

TestV12H_0123
07:00

Item **Distress relay Individual** **(Error in the ECC)**	**Result**		**Com-ment**
	YES	**NO**	
The two-tone sounds and self-terminates,	**X**		
the operator is **unable** to send a distress acknowledgement, [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay. [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **unable** to send a distress relay acknowledgement, [ETSI EN 300 338-1, n.8.2.1]	**X**		
The operator is **able** to send a DROBOSE, [ETSI EN 300 338-1, n.8.2.1]	**X**		
you can speak to the EUT from the TE,	**X**		
you can speak to the TE from the EUT.	**X**		

Terminate procedure.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

g) Reset the EUT to standby. From the TE send a relay distress alert Individual to EUT (without error). Verify that:

TestV12H_0123
08:00

Item **Distress relay Individual** **(free errors)**	**Result**		**Com-ment**
	YES	**NO**	
The two-tone sounds,	**X**		
the operator is **unable** to send a distress acknowledgement, [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **able** to send a distress relay. [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is **able** to send a distress relay acknowledgement, [ETSI EN 300 338-1, n.8.2.1]	**X**		
The operator is **able** to send a DROBOSE, [ETSI EN 300 338-1, n.8.2.1]	**X**		
you can speak to the EUT from the TE,	**X**		
you can speak to the TE from the EUT.	**X**		

Terminate procedure.

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

11.16. Handling incomming Distress DSC messages wits symbol “subsequent communication” error test

[ETSI EN 300 338-1 (2010-02), n.8.2.2]

A distress automated procedure shall assume radio telephone if the communications parameter is received in error. The distress automated procedure shall indicate to the operator that it is making the assumption due to the error.

[ETSI EN 300 338-1, n.8.2.2]

Scenario	**Legend**
TestV12H_0022.scn	Is not required

Method of measurement and required results

a) Reset the EUT and TE into standby. Compose the Distress alert. Edit the message such that the DX and RX positions of type of communication value are in error (make the 3-bit zero count disagree with the 7-bit symbol value). Transmit the edited DSC message and verify that:

TestV12H_0022.scn
00:00

Item **Distress call** **(Subsequent communication character error)**	**Result**		**Com-ment**
	YES	**NO**	
The two-tone alarm sounds SELF-TERMINATED, [Draft ETSI EN 300 338-1, n.8.2.2]	**X**		
The reason for and means to silence the alarm is displayed,	**X**		
The distress automated procedure indicates that communication “radio telephone” is making the assumption due to the error. [ETSI EN 300 338-1, n.8.2.2]	**X**		NOTE 1
the operator is NOT **able** to send a distress relay.	**X**		

NOTE 1
Indicator is “MODE: __(TELEPH.)”

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

11.17. Handling incomming Distress DSC acknowledgment with errors (MMSI ship in distress is known)

[ETSI EN 300 338-2 (2010-02), n.6.5.8]
[ETSI EN 300 338-1 (2010-02), n.8.2.2,a]

For a distress automated procedure to be considered acknowledged by a received distress DSC acknowledgment:
a) the MMSI (or unknown) of the vessel in distress shall be received error free;
b) if the acknowledgment is on MF/HF, the distress communications parameter shall also be received error free;
c) if the MMSI of the vessel in distress is unknown, all the parameters of the distress information shall also be received error free.

[ETSI EN 300 338-1, n.8.2.2]

The procedure handling all-ships distress DSC messages and distress alerts shall be considered acknowledged upon reception of the first distress alert acknowledgement or all ships distress relay acknowledgement.

[ETSI EN 300 338-3, n.6.5.8]

Scenario	**Legend**
TestV12H_0023.scn	Is not required

Definition

This test checks that for a distress automated procedure to be considered acknowledged by a received distress DSC acknowledgment if the MMSI (or unknown) of the vessel in distress shall be received error free.

Method of measurement and required results

a) Reset EUT into Standby. Send from TE Distress call. Verify that:

TestV12H_0023.scn
00:00

Item Distress call (No errors)	**Result** YES	NO	**Com-ment**
the two-tone alarm sounds,	**X**		
an distress automated procedure is initiated by the reception of a DSC message	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Send from TE Distress acknowledgement with error character in Self ID ship in distress. Verify that:

TestV12H_0023.scn
03:00

Item **Distress acknowledgement** **(MMSI ship in distress with errors)**	**Result**		**Com-ment**
	YES	**NO**	
The alarm is self-terminating,	**X**		
The automated distress procedure should **NOT** change status to "acknowledged" [ETSI EN 300 338-1, n.8.2.2,a]	**X**		

c) Send from TE Distress acknowledgement with error character in Subsequent communication. Verify that:

TestV12H_0023.scn
06:00

Item **Distress acknowledgement** **(Subsequent communication with errors)**	**Result**		**Com-ment**
	YES	**NO**	
Alarm is self-terminating,	**X**		
The automated distress procedure should **NOT** change status to "acknowledged" [ETSI EN 300 338-1, n.8.2.2,a]	**X**		

TestV12H_0023.scn
09:00

Item **Distress acknowledgement** **(MMSI ship in distress and Subsequent communication free of errors)**	**Result**		**Com-ment**
	YES	**NO**	
The distress ack alarm sounds , [ETSI EN 300 338-1, n.8.2.1]	**X**		
The automated distress procedure should change status to "acknowledged" [ETSI EN 300 338-1, n.8.2.2,a]	**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

11.18. Handling incomming Distress DSC acknowledgment with errors (MMSI ship in distress is unknown)

[ETSI EN 300 338-1 (2010-02), n.8.2.2,c]
[ETSI EN 300 338-2 (2010-02), n.6.5.8]

For a distress automated procedure to be considered acknowledged by a received distress DSC acknowledgment:
a) the MMSI (or unknown) of the vessel in distress shall be received error free;
b) if the acknowledgment is on MF/HF, the distress communications parameter shall also be received error free;
c) if the MMSI of the vessel in distress is unknown, all the parameters of the distress information shall also be received error free.

[ETSI EN 300 338-1, n.8.2.2]

The procedure handling all-ships distress DSC messages and distress alerts shall be considered acknowledged upon reception of the first distress alert acknowledgement or all ships distress relay acknowledgement.

[ETSI EN 300 338-3, n.6.5.8]

Scenario	**Legend**
TestV12H_0024.scn	Is not required

Definition

This test checks that for a distress automated procedure to be considered acknowledged by a received distress DSC acknowledgment if the MMSI of the vessel in distress is unknown, all the parameters of the distress information shall also be received error free.

Method of measurement and required results

a) Reset EUT into Standby. Send from TE Distress relay to All ships (MMSI ship in distress unknown). Verify that:

TestV12H_0024.scn
00:00

Item **Distress relay call to All ships** **(MMSI ship in distress is unknown)**	**Result**		**Com-ment**
	YES	**NO**	
the two-tone alarm sounds,	**X**		
an distress automated procedure is initiated by the reception of a DSC message	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Send from TE Distress relay All ships acknowledgement (EOS=BQ) with error characters in distress information (MMSI ship in distress unknown). Verify that:

TestV12H_0024.scn
03:00

Item **Distress relay acknowledgement** **(Error in the MMSI ship in distress)**	**Result**		**Com-ment**
	YES	**NO**	
alarm is self-terminating,	**X**		
The automated distress procedure should **NOT** change status to "acknowledged" [ETSI EN 300 338-1, n.8.2.2,c]	**X**		

TestV12H_0024.scn
04:00

Item **Distress relay acknowledgement** **(Error in the Nature of distress)**	**Result**		**Com-ment**
	YES	**NO**	
The alarm is self-terminating,	**X**		
The automated distress procedure should **NOT** change status to "acknowledged" [ETSI EN 300 338-1, n.8.2.2,c]	**X**		

TestV12H_0024.scn
05:00

tem **Distress relay acknowledgement** **(Error in the Distress coordinates)**	**Result**		**Com-ment**
	YES	**NO**	
The alarm is self-terminating,	**X**		
The automated distress procedure should **NOT** change status to "acknowledged" [ETSI EN 300 338-1, n.8.2.2,c]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

TestV12H_0024.scn
06:00

Item Distress relay acknowledgement (Error in the Time)	Result		Com-ment
	YES	NO	
The alarm is self-terminating,	X		
The automated distress procedure should **NOT** change status to "acknowledged" [ETSI EN 300 338-1, n.8.2.2,c]	X		

TestV12H_0024.scn
07:00

Item Distress relay acknowledgement (Error in the Subsequent communication)	Result		Com-ment
	YES	NO	
The alarm is self-terminating,	X		
The automated distress procedure should **NOT** change status to "acknowledged" [ETSI EN 300 338-1, n.8.2.2,c]	X		

c) Send from TE Distress relay All ships acknowledgement without errors in distree information characters (MMSI ship in distress unknown), but the Self ID (MMSI) character with error.

TestV12H_0024.scn
08:00

Item Distress relay acknowledgement (Distress information without of errors)	Result		Com-ment
	YES	NO	
The distress ack alarm sounds,	X		
The automated distress procedure should change status to "acknowledged" [ETSI EN 300 338-1, n.8.2.2,c]	X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

11.19. Comparison error correction Distress DSC messages test (the entire set of received information characters is identical to the previously received set)

[ETSI EN 300 338-1 (2010-02), n.8.2.2,a]

A distress automated procedure shall correct receive errors by performing comparison error correction in the following manner:
a) if the entire set of received information characters is identical to the previously received set of information characters, comparison error correction shall be performed on the entire set of information characters;

[ETSI EN 300 338-1, n.8.2.2,a]

Scenario	**Legend**
TestV12H_0025.scn	Is not required

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) Reset EUT into Standby. Send from TE Distress call with error in first character of MMSI ship in distress. Verify that:

TestV12H_0025.scn
00:00

Item **Distress call** **(Error in the MMSI ship in distress, 1st character)**	**Result**		**Com-ment**
	YES	**NO**	
The two-tone alarm sounds and self-terminates,	**X**		
an distress automated procedure is initiated by the reception of a DSC message that contains critical errors, [ETSI EN 300 338-1 (2010-02), n.8.2.1]	**X**		
The operator is made aware of the fact the received Distress DSC message has (critical) errors, [ETSI EN 300 338-1 (2010-02), n.8.2.1]	**X**		

b) Wait for 5 min. Send from TE the same Distress call with Nature of distress character error. Verify that:

TestV12H_0025.scn
05:00

Item **Distress call** **(Error in Nature)**	**Result**		**Com-ment**
	YES	**NO**	
The two-tone alarm sounds, [ETSI EN 300 338-1 (2010-02), n.8.2.1]	**X**		
The critical error is corrected [ETSI EN 300 338-1 (2010-02), n.8.2.2,a]	**X**		

c) Repeat the (a) and (b) for oter distress information characters error.

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

11.20. Comparison error correction Distress DSC messages test (the set of received distress information characters is identical to the distress information)

[ETSI EN 300 338-1(2010-02), n.8.2.2,b]

A distress automated procedure shall correct receive errors by performing comparison error correction in the following manner:
b) if only the set of received distress information characters is identical to the distress information determined from the reception of previous DSC messages, comparison error correction shall only be performed on the set of distress information characters;

[ETSI EN 300 338-1, n.8.2.2,b]

Scenario	Legend
TestV12H_0026.scn	Is not required
TestV12H_0027.scn	Is not required
TestV12H_0028.scn	Is not required
TestV12H_0029.scn	Is not required
TestV12H_0030.scn	Is not required

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) Reset EUT into Standby. Send from TE Distress call with distress information character erro r (MMSI ship in distress).

Item **Distress call** **(Error in the MMSI ship in distress, 1st character)**	**Result**		**Com-ment**
	YES	**NO**	
The two-tone alarm sounds and self-terminates,	**X**		
an distress automated procedure is initiated by the reception of a DSC message that contains critical errors,	**X**		
The operator is made aware of the fact the received Distress DSC message has (critical) errors,	**X**		

b) Send from TE Distress relay call no all ships for distress event (a) without distress information character error. Verify that:

Item **Distress relay call**	**Result**		**Com-ment**
	YES	**NO**	
The two-tone alarm sounds,	**X**		
The critical error is corrected ETSI EN 300 338-1(2010-02), n.8.2.2,b	**X**		

Repeat for other errors. Verify that:

Initial: Distress call with error **Second: Distress relay w/o error**	**The error was corrected**		**Result**		**Comment**
	YES	**NO**	**YES**	**NO**	
MMSI ship in distress *TestV12H_0026.scn*	**X**		**X**		
Nature of distress *TestV12H_0027.scn*	**X**		**X**		
Distress coordinate *TestV12H_0028.scn*	**X**		**X**		
Time *TestV12H_0029.scn*	**X**		**X**		
Subsequent communications *TestV12H_0030.scn*	**X**		**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

11.21. Comparison error correction Distress DSC messages test (error in the enhanced position information characters)

[ETSI EN 300 338-1(2010-02), n.8.2.2,c]

c) if the new message has the enhanced position information characters comparison error correction shall be performed on the enhanced position information characters, and if the enhanced position information characters are absent in the current set of distress information characters, the current set shall be updated with the new set of enhanced position information characters;

[ETSI EN 300 338-1, n.8.2.2]

n) equipment that supports the ITU-R recommendation M.821 [i.5] extensions shall be able to decode the standard part of the DSC message even when the extension is received in error;
o) if one of the four end of sequence symbols is not received error free at the end of the standard DSC message the message shall be rejected. However, if the end of sequence character is received correctly at the end of the enhanced extension the equipment shall not be prevented from using the latter end of sequence symbol to identify and accept the standard (and thus entire) message.

[ETSI EN 300 338-1, n.8.1]

Scenario	**Legend**
TestV12H_0031.scn	Is not required
TestV12H_0032.scn	Is not required

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) Reset EUT into Standby. Send from TE Distress call with expansion sequence and Enhanced position resolution 1st character error. Verify that:

TestV12H_0031.scn
00:00

Item **Distress call** **(Error in the Enhanced position resolution 1st character)**	**Result**		**Com-ment**
	YES	**NO**	
The two-tone alarm sounds, *[enchanced extension ignore*]	**X**		
an distress automated procedure is initiated by the reception of a DSC message,	**X**		
The Enhanced position of Distress coordinates information does not display.	**X**		

b) Wait for 5 min. Send from TE Distress call with expansion sequence and Enhanced position resolution w/o error. Verify that:

TestV12H_0031.scn
05:00

Item **Distress call** **(w/o Error in the Enhanced position resolution)**	**Result**		**Com-ment**
	YES	**NO**	
The alarm self-terminating sounds,	**X**		
The Enhanced position of Distress coordinates information is displayed.	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

c) Reset EUT into Standby. Send from TE Distress call without expansion sequence. Verify that:

TestV12H_0032.scn
00:00

Item **Distress call** **(w/o Enhanced position resolution)**	**Result**		**Com-ment**
	YES	**NO**	
The two-tone alarm sounds, *[enchanced extension ignore*]	**X**		
an distress automated procedure is initiated by the reception of a DSC message,	**X**		
The Enhanced position of Distress coordinates information does not display.	**X**		

d). Send from TE Distress relay to all ships with enhanced extension for distress event (c). Verify that:

TestV12H_0032.scn
01:00

Item **Distress relay call** **(with the Enhanced position resolution)**	**Result**		**Com-ment**
	YES	**NO**	
The two-tone alarm sounds and self-terminates,	**X**		
The Enhanced position of Distress coordinates information is displayed.	**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

11.22. Comparison error correction Distress DSC messages test (only the received distress event information characters are identical)

[ETSI EN 300 338-1 (2010-02), n.8.2.2,d]

d) if only the received distress event information characters are identical, comparison error correction shall only be performed on the distress event information characters.

[ETSI EN 300 338-1, n.8.2.2]

Scenario	Legend
TestV12H_0033.scn	Is not required

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) Reset EUT into Standby. Send from TE Distress call witth expansion sequence and with errors in the character Nature of distress, Distress coorditates (1st character). Time (1st character), Enhanced position resolution (1st character). Verify that:

TestV12H_0033.scn
00:00

Item Distress call	Result		Com-ment
	YES	NO	
The two-tone alarm sounds and self-terminates,	X		
an distress automated procedure is initiated by the reception of a DSC message that contains critical errors,	X		
The operator is made aware of the fact the received Distress DSC message has (critical) errors,	X		

b) Wait for 5 min. Change the distress coordinates information, Time and character of Enhanced position resolution. Send from TE Distress call witth expansion sequence and with errors in the character Distress coorditates (2nd character). Time (2nd character), Enhanced position resolution (2nd character). Verify that:

TestV12H_0033.scn
05:00

Item Distress call	Result		Com-ment
	YES	NO	
The is self-terminating,	X		
EUT displays Nature of distress w/o error but , Distress coordinates, time, enchanced position information with errors,	X		
The operator is made aware of the fact the received Distress DSC message has (critical) errors,	X		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

11.23. Errors in received non distress DSC messages (Self ID, Category or Telecommand errors)

[ETSI EN 300 338-1(2010-02), n.8.2.3]

A non distress automated procedure shall not allow the acknowledgment of a non distress DSC message that has errors in either the category, sender MMSI, or telecommand 1 information characters.

[ETSI EN 300 338-1, n.8.2.3]

Scenario	Legend
TestV12H_0034.scn	Is not required
TestV12H_0035.scn	Is not required
TestV12H_0036.scn	Is not required

TestV12H_0034.scn - Sender Self ID (MMSI) error
TestV12H_0035.scn - Category error
TestV12H_0036.scn - Telecommand error

Definition

This test checks how the EUT responds to received non distress DSC messages that have critical errors.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) Set both the EUT and TE in standby. On the TE compose an individual DSC message of priority 'urgency' addressed to the EUT requesting voice subsequent communication. Before transmitting the message place a 3-bit error in the DX and RX positions of the first word of the self-ID MMSI. Transmit the edited DSC message and verify that:

TestV12H_0034.scn 2187.5 kHz
00:00

Item Individual urgency call (Self ID error)	Result		Com-ment
	YES	NO	
The appropriate alarm sounds and self-terminates, [ETSI EN 300 338-1, n.8.2.1]	X		
The operator is made aware of the fact the received DSC message has (critical) errors and cannot acknowledge, [ETSI EN 300 338-1, n.8.2.3]	X		
The MMSI of the sender is displayed with error indicators in the first two digits, [ETSI EN 300 338-1, n.8.2.1]	X		
The acknowledgement options are **NOT** available. [ETSI EN 300 338-1, n.8.2.3]	X		

Resend the identical message with the edited error from the TE. Verify that:

TestV12H_0034.scn 2187.5 kHz
01:00

Item Individual urgency call (Self ID error)	Result		Com-ment
	YES	NO	
The self-terminating alarm sounds.	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

On the TE correct the error in the RX word and resend the call. Verify that:

TestV12H_0034.scn 2187.5 kHz
02:00

Item **Individual urgency call** **(No errors)**	**Result**		**Com-ment**
	YES	**NO**	
the appropriate alarm sounds, [ETSI EN 300 338-1, n.8.2.1]	**X**		
the reason for and means to silence the alarm is displayed,	**X**		
the alarm can only be silenced manually,	**X**		
the MMSI of the sender is displayed and all 9 digits are correct, [ETSI EN 300 338-1, n.8.2.1]	**X**		
all three acknowledgement options are available. [ETSI EN 300 338-1, n.8.2.3]	**X**		

On the TE, reset the RX word to an error value, and transmit. Verify that:

TestV12H_0034.scn 2187.5 kHz
03:00

Item **Individual urgency call** **(Self ID error)**	**Result**		**Com-ment**
	YES	**NO**	
the self-terminating alarm sounds,	**X**		
the self-ID is displayed error free, [ETSI EN 300 338-1, n.8.2.1]		**X**	(55)
all three acknowledgement options are available, [ETSI EN 300 338-1, n.8.2.3]		**X**	(55)
the operator can acknowledge the TE with ‘able to comply’. [ETSI EN 300 338-1, n.8.2.3]		**X**	(55)

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Set both the EUT and TE in standby. On the TE compose an individual DSC message of priority 'urgency' addressed to the EUT requesting voice subsequent communication. Before transmitting the message place a 3-bit error in the DX and RX positions of the category. Transmit the edited DSC message and verify that:

TestV12H_0035.scn 2187.5 kHz
00:00

Item **Individual urgency call** **(Category error)**	**Result**		**Com-ment**
	YES	**NO**	
the appropriate alarm sounds and self-terminates, [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is made aware of the fact the received DSC message has (critical) errors and cannot acknowledge,	**X**		
The category is displayed with error, [ETSI EN 300 338-1, n.8.2.1]	**X**		
The acknowledgement options are **NOT** available. [ETSI EN 300 338-1, n.8.2.3]	**X**		

Resend the identical message with the edited error from the TE. Verify that:

TestV12H_0035.scn
01:00

Item **Individual urgency call** **(Category error)**	**Result**		**Com-ment**
	YES	**NO**	
The self-terminating alarm sounds.	**X**		

On the TE correct the error in the RX word and resend the call. Verify that:

TestV12H_0035.scn
02:00

Item **Individual urgency call** **(No error)**	**Result**		**Com-ment**
	YES	**NO**	
the appropriate alarm sounds, [ETSI EN 300 338-1, n.8.2.1]	**X**		
the reason for and means to silence the alarm is displayed,	**X**		
the alarm can only be silenced manually,	**X**		
the category is displayed and correct, [ETSI EN 300 338-1, n.8.2.1]	**X**		
all three acknowledgement options are available. [ETSI EN 300 338-1, n.8.2.3]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

On the TE, reset the RX word to an error value, and transmit. Verify that:

TestV12H_0035.scn
03:00

Item **Individual urgency call** **(Category error)**	**Result**		**Com-ment**
	YES	**NO**	
The self-terminating alarm sounds,	**X**		
The Category is displayed error free, [ETSI EN 300 338-1, n.8.2.1]		**X**	(55)
all three acknowledgement options are available,		**X**	(55)
the operator can acknowledge the TE with 'able to comply'.		**X**	(55)

c) Set both the EUT and TE in standby. On the TE compose an individual DSC message of priority 'urgency' addressed to the EUT requesting voice subsequent communication. Before transmitting the message place a 3-bit error in the DX and RX positions of the first telecommand. Transmit the edited DSC message and verify that:

TestV12H_0036.scn 2187.5 kHz
00:00

Item **Individual urgency call** **(Telecommand error)**	**Result**		**Com-ment**
	YES	**NO**	
the appropriate alarm sounds and self-terminates, [ETSI EN 300 338-1, n.8.2.1]	**X**		
the operator is made aware of the fact the received DSC message has (critical) errors and cannot acknowledge, [ETSI EN 300 338-1, n.8.2.3]	**X**		
The telecommand is displayed with error, [ETSI EN 300 338-1, n.8.2.1]	**X**		
none of the acknowledgement options are available. [ETSI EN 300 338-1, n.8.2.3]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Resend the identical message with the edited error from the TE. Verify that:

TestV12H_0036.scn
01:00

Item Individual urgency call (Telecommand error)	Result		Com-ment
	YES	NO	
the self-terminating alarm sounds.	X		

On the TE correct the error in the RX word and resend the call. Verify that:

TestV12H_0036.scn
02:00

Item Individual urgency call (No error)	Result		Com-ment
	YES	NO	
the appropriate alarm sounds, [ETSI EN 300 338-1, n.8.2.1]	X		
the reason for and means to silence the alarm is displayed,	X		
the alarm can only be silenced manually,	X		
the telecommand is displayed and correct,	X		
all three acknowledgement options are available. [ETSI EN 300 338-1, n.8.2.3]	X		

On the TE, reset the RX word to an error value, and transmit. Verify that:

TestV12H_0036.scn
03:00

Item Individual urgency call (Telecommand error)	Result		Com-ment
	YES	NO	
the self-terminating alarm sounds,	X		
the telecommand is displayed error free,		X	(55)
all three acknowledgement options are available,		X	(55)
the operator can acknowledge the TE with ‘able to comply’.		X	(55)

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

(55) (E1342)

Incorrectly implement handling non distress DSC messages with critical errors.

TE transmittid to the address EUT the individual call with critical errors. EUT received call and initiated automated procedure. The option of acknowledgement is unable. Next, TE transmitted the identical individual call without errors. EUT received new call. Now the optioin of acknowledgement is able. The receiving non distress automated procedure did not indicate the presence of errors.

Next, TE transmitted initial individual call with critical errors. EUT received the call and blocked option of acknowledgement. The receiving non distress automated procedure indicated the presence of errors. While in no case shall the reception of an identical DSC message introduce more errors into the information characters (and their display) that are used to identify the procedure.

[ETSI EN 300 338-1, n.8.2.1]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

11.24. Errors in received non distress DSC messages (Frequency information errors)

[ETSI EN 300 338-1 (2010-02), n.8.2.3]

A non distress automated procedure shall not tune to the frequencies of subsequent communication if the DSC message is addressed to a group, an area or all ships if the telecommand 1 (MF/HF only) and/or frequency information characters are received in error.

A non distress automated procedure shall not allow the acknowledgment of a non distress DSC message that has errors in either the category, sender MMSI, or telecommand 1 information characters.

[ETSI EN 300 338-1, n.8.2.3]

Scenario	**Legend**
TestV12H_0037.scn	Is not required
TestV12H_0038.scn	*TestH_0N0E*

TestV12H_0037.scn – Channel error Individual urgency call
TestV12H_0038.scn - Cannel error Geographic area ships urgency call

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) Reset both the EUT and TE in standby. On the TE compose an individual DSC message of priority 'urgency' addressed to the EUT requesting voice subsequent communication (RT channel 2182.0 kHz). Before transmitting the message place a 3-bit error in the DX and RX positions of the first word of the frequency message. Transmit the edited DSC message and verify that:

TestV12H_0037.scn 2187.5 kHz
00:00

Item **Individual urgency call** **(Channel error)**	**Result**		**Com-ment**
	YES	**NO**	
the appropriate alarm sounds and self-terminates,	**X**		
the reason for and means to silence the alarm is displayed,	**X**		
the operator is made aware of the fact the there is an error in the subsequent communication frequency, [ETSI EN 300 338-1, n.8.2.1]	**X**		
the 'able to comply' acknowledgement option is **NOT** available, [ETSI EN 300 338-1, n.8.2.3]	**X**		
the operator can acknowledge the TE suggesting a new frequency of subsequent communication, [ETSI EN 300 338-1, n.8.2.3]		**X**	(56)

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Reset both the EUT and TE in standby. On the EUT compose an DSC call of priority 'urgency' addressed to the Geographic area requesting voice subsequent communication (RT channel 2182.0 kHz). Before transmitting the message place a 3-bit error in the DX and RX positions of the first word of the frequency message. Transmit the edited DSC message and verify that:

TestV12H_0038.scn 2187.5 kHz
00:00

Item **Geographic area urgency call** **(Channel error)**	**Result**		**Com-ment**
	YES	**NO**	
the appropriate alarm sounds and self-terminates,	**X**		
the reason for and means to silence the alarm is displayed,	**X**		
the operator is made aware of the fact the there is an error in the subsequent communication frequency,	**X**		
EUT no change the channel to 2182.0 kHz [ETSI EN 300 338-1, n.8.2.3]	**X**		
Current state is displayed [ETSI EN 300 338-1, n.8.2.3]	**X**		NOTE 1

NOTE 1
Current state "RECEIVED" is displayed.

(56) (E1119)
On the TE compose an individual DSC message of priority 'urgency' addressed to the EUT requesting voice subsequent communication (RT channel 2182.0 kHz). Before transmitting the message place a 3-bit error in the DX and RX positions of the first word of the frequency message. Transmit the edited DSC.
On the EUT the receiving non distress automated procedure with critical errors is initiated. Select the option "comply with frequency change".
a) EUT indicates the default parameters: frequency "Ch: 2182.0 / 2182.0 kHz" and mode "MODE: UNKNOWN". While mode is known: radiotelephone.
b) Operator does not change the default settings and is transmitted the acknowledgement. Actually the radiotelephone mode and frequency (2182.0/2182.0) are transmitted but EUT is tuned to the telex (FEC/ARQ) mode on the 2182.0/2182.0 kHz.

[ETSI EN 300 338-2, n.6.7.7]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

11.25. Errors in received non distress DSC acknowledgement test

[ETSI EN 300 338-1(2010-02) , n.8.2.3]

A non distress automated procedure shall not be acknowledged by a non distress DSC acknowledgement that has errors in any one of the sender MMSI, telecommand 1, or frequency information characters.

[ETSI EN 300 338-1, n.8.2.3]

Scenario	**Legend**
TestV12H_0039.scn	Is not required

MMSI TE : 273000001 (Address for sending Individual Safety call)
MMSI EUT: 273000000

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) Reset EUT into Standby. Send on the 6215.0 kHz **from EUT to TE** 273000001 Safety individual call RT channel 6215.0 kHz. Verify that initiate sending non distress automated procedure and state "waiting for acknowledgement".

b) Send on the 6312.0 kHz from TE to EUT acknowledgement with sender Self ID (MMSI) character error. Verify that:

TestV12H_0039.scn 6215.0 kHz
00:00

Item Individual safety ACK (Sender Self ID eror)	Result		Com-ment
	YES	NO	
the self-terminating alarm sounds, [ETSI EN 300 338-1, n.8.2.1]	X		
the Sender Self ID is displayed with error, [ETSI EN 300 338-1, n.8.2.1]	X		
The state is "waiting for acknowledgement"., [ETSI EN 300 338-1, n.8.2.3]	X		
the operator can resend the initiate call.	X		

c) Send from TE to EUT acknowledgement with Telecommand 1 character error. Verify that:

TestV12H_0039.scn
01:00

Item Individual safety ACK (Telecommand1 eror)	Result		Com-ment
	YES	NO	
the self-terminating alarm sounds, [ETSI EN 300 338-1, n.8.2.1]	X		
the Telecommand1 is displayed with error, [ETSI EN 300 338-1, n.8.2.1]		X	(57)
The state is "waiting for acknowledgement"., [ETSI EN 300 338-1, n.8.2.3]	X		
the operator can resend the initiate call.	X		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

d) Send from TE to EUT acknowledgement with Channel character error. Verify that:

TestV12H_0039.scn
02:00

Item **Individual safety ACK** **(channel eror)**	**Result**		**Com-ment**
	YES	**NO**	
the self-terminating alarm sounds, [ETSI EN 300 338-1, n.8.2.1]	**X**		
the Channel is displayed with error, [ETSI EN 300 338-1, n.8.2.1]		**X**	(57)
The state is "waiting for acknowledgement"., [ETSI EN 300 338-1, n.8.2.3]	**X**		
the operator can resend the initiate call.	**X**		

e) Send from TE to EUT acknowledgement without error. Verify that:

TestV12H_0039.scn
03:00

Item **Individual routine ACK** **(No error)**	**Result**		**Com-ment**
	YES	**NO**	
the routine ack alarm sounds,	**X**		
the information is displayed without error,	**X**		
The state is "acknowledged".	**X**		

(57) (E1120)
A receiving non distress automated procedure uses correct receive errors by performing comparison error correction in the case repeate reception individual calls addressed to EUT. While distress automated procedure shall correct receive errors by performing comparison error correction only.

[ETSI EN 300 338-1, n.8.2.2]
[ETSI EN 300 338-1, n.8.2.3]

The equipment meets the requirements (yes / no /n.a)	**no**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

12. Own position and Interfaces

[ETSI EN 300 338-1 (2010-02), n.4.10]
[ETSI EN 300 338-1 (2010-02), n.9]

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

12.1. Facilites of input own ship position information test

[ETSI EN 300 338-1 (2010-02), n.4.10]
[Rec. ITU-R M.493-13, Annex 1, n.12.7]
[IMO Resolution MSC.(68)68]

To enable updating of position:
1) the EUT shall have facilities for manually entering the ship's position;
2) if position data is being updated automatically, an alarm shall sound if no updating is received after a period of 10 min that can only be silenced manually or by the reception of new position data, a displayed reminder or error message that the automatic position updating is "offline" shall remain until the position is updated;
3) if the ship's position is older than 4 h, an alarm shall sound that can only be silenced manually or by the reception or entry of new position data, a displayed reminder shall remain until the position is updated;
4) if the ships' position is older than 23,5 h, the position values shall be erased, an alarm shall sound that can only be silenced manually or by the reception or entry of new position data, a displayed reminder shall remain until the position is updated.
Where manual input is used and no enhanced position information is available then distress alert should not use the expansion message. See ITU-R Recommendation M.821 [i.5], clause 3.1. "The expansion message field with enhanced position resolution may be appended to any standard DSC transmission sequences which include position information, provided the data is available" [*I do not agree…*].

[ETSI EN 300 338-1 (2010-02), n.4.10]

DSC equipment should accept valid IEC 61162 position information including the time at which the position was determined, from an external source utilizing the data interface described in Rec. ITU-R M.493-11, Annex 1, n 12.6, for automatic update of own ship's DSC position.

The DSC equipment may also be provided with an internal electronic position fixing device. In which case, the DSC equipment should automatically switch to the internal source if the external IEC 61162 position information is not valid or not available.

If the automatic position update is not available, a displayed and audible reminder to manually update the position should occur before the position information is 4 h old. The displayed reminder should remain until position updating has been carried out. Any position information not updated for more than 23½ h should automatically be erased.

Own ship's DSC position information and the source of that information (external, internal, or manually entered) should be displayed on the DSC equipment.

[Rec. ITU-R M.493-11, Annex 1, n.12.7]
[IMO Resolution MSC.(68)68]

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Definition

This test checks facilities for input own ship position information. The EUT shall have facilities for manually entering the ship's position. DSC equipment should accept valid IEC 61162 position information including the time at which the position was determined, from an external source utilizing the data interface for automatic update of own ship's DSC position.
The DSC equipment may also be provided with an internal electronic position fixing device (EPFD).

Method of measurement and required results

a) Set both the EUT and TE in standby. Verify by observation and document inspection that:

Facilities of Position updating						
Subject		**Value**		**Result**		**Com-ment**
		YES	**NO**	**YES**	**NO**	
The EUT shall have the facilities for manually updating of position information [ETSI EN 300 338-1, n.4.10]	Position	**X**		**X**		
	UTC of position fixed	**X**		**X**		
The EUT shall have the facilities for automatically externally updating of position information (IEC 61162 interface) [ETSI EN 300 338-1, n.4.10]	Position	**X**		**X**		
	UTC of position fixed	**X**		**X**		
The EUT **<u>may</u>** have the facilities for automatically internally updating of position information (Internal EPFD) [Rec. ITU-R M.493-11, Annex 1, n.12.7]	Position	n.a	n.a	n.a	n.a	Optional
	UTC of position fixed	n.a	n.a	n.a	n.a	Optional

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) Own ship's DSC position information and the source of that information (external, internal, or manually entered) should be displayed on the DSC equipment. Verify that:

Indication of ship's position information						
Subject		**Indication**		**Result**		**Com-ment**
		YES	**NO**	**YES**	**NO**	
Own ship's DSC position information and the source of that information (external, internal, or manually entered) should be displayed on the DSC equipment [Rec. ITU-R M.493-13, Ann. 1, n.12.7]	External	**X**		**X**		
	Internal	n.a	n.a	n.a	n.a	
	Manually entered	**X**		**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

12.2. Position update alarm test

[ETSI EN 300 338-1 (2010-02), n.4.10]

To enable updating of position:
1) the EUT shall have facilities for manually entering the ship's position;
2) if position data is being updated automatically, an alarm shall sound if no updating is received after a period of 10 min that can only be silenced manually or by the reception of new position data, a displayed reminder or error message that the automatic position updating is "offline" shall remain until the position is updated;
3) if the ship's position is older than 4 h, an alarm shall sound that can only be silenced manually or by the reception or entry of new position data, a displayed reminder shall remain until the position is updated;
4) if the ships' position is older than 23,5 h, the position values shall be erased, an alarm shall sound that can only be silenced manually or by the reception or entry of new position data, a displayed reminder shall remain until the position is updated.

[ETSI EN 300 338-1 (2010-02), n.4.10]

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

a) If position data is being updated automatically, an alarm shall sound if no updating is received after a period of 10 min that can only be silenced manually or by the reception of new position data, a displayed reminder or error message that the automatic position updating is "offline" shall remain until the position is updated.
Verify that:

Position update alarm (Lost EPFD position)	Result		Com-ment
	YES	NO	
If position data is being updated automatically, an alarm shall sound if no updating is received **after a period of 10 min** [ETSI EN 300 338-1, n.4.10.2]	X		
The sound alarm can only be silenced manually [ETSI EN 300 338-1, n.4.10.2]	X		
The sound alarm can only be silenced by the reception of new position data [ETSI EN 300 338-1, n.4.10.2]	X		
If the ship's position is older than 4 h shall be displayed reminder shall remain until the position is updated; [ETSI EN 300 338-1, n.4.10.2]	X		NOTE 1
The displayed reminder or error message that the automatic position updating is "offline" shall remain until the position is updated; [ETSI EN 300 338-1, n.4.10.2]	X		

NOTE 1
EUT indicates “OFF”.

b) If the ship's position is older than 4 h, an alarm shall sound that can only be silenced manually or by the reception or entry of new position data, a displayed reminder shall remain until the position is updated.
Verify that:

Position update alarm (ship's position is older than 4 h) Manually input position	Result		Com-ment
	YES	NO	
If the ship's position is older than 4 h, an alarm shall sound [ETSI EN 300 338-1, n.4.10.3]	X		
The sound alarm can only be silenced manually [ETSI EN 300 338-1, n.4.10.3]	X		
The sound alarm can only be silenced by the reception of new position data [ETSI EN 300 338-1, n.4.10.3]	X		
The sound alarm can only be silenced by the entry of new position data [ETSI EN 300 338-1, n.4.10.3]	X		
If the ship's position is older than 4 h shall be displayed reminder shall remain until the position is updated; [ETSI EN 300 338-1, n.4.10.3]	X		NOTE 1
The reminder shall remain until the position is updated; [ETSI EN 300 338-1, n.4.10.3]	X		

NOTE 1
EUT indicates “OLD”.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

c) If the ship's position is older than 4 h, an alarm shall sound that can only be silenced manually or by the reception or entry of new position data, a displayed reminder shall remain until the position is updated.
Verify that:

Position update alarm (ship's position is older than 4 h) **External EPFD input position**	**Result**		**Com-ment**
	YES	**NO**	
If the ship's position is older than 4 h, an alarm shall sound [ETSI EN 300 338-1, n.4.10.3]	**X**		
The sound alarm can only be silenced manually [ETSI EN 300 338-1, n.4.10.3]	**X**		
The sound alarm can only be silenced by the reception of new position data [ETSI EN 300 338-1, n.4.10.3]	**X**		
The sound alarm can only be silenced by the entry of new position data [ETSI EN 300 338-1, n.4.10.3]	**X**		
If the ship's position is older than 4 h shall be displayed reminder shall remain until the position is updated; [ETSI EN 300 338-1, n.4.10.3]	**X**		
The reminder shall remain until the position is updated; [ETSI EN 300 338-1, n.4.10.3]	**X**		

d) If the ships' position is older than 23,5 h, the position values shall be erased, an alarm shall sound that can only be silenced manually or by the reception or entry of new position data, a displayed reminder shall remain until the position is updated.
Verify that:

Position update alarm and **Automatically erased of ship's position information when ship's position is older than 23.5 h** **Manually input position**	**Result**		**Com-ment**
	YES	**NO**	
If the ship's position is older than 23.5 h, an alarm shall sound [ETSI EN 300 338-1, n.4.10.4]	**X**		
The sound alarm can only be silenced manually [ETSI EN 300 338-1, n.4.10.4]	**X**		
The sound alarm can only be silenced by the reception of new position data [ETSI EN 300 338-1, n.4.10.4]	**X**		
The sound alarm can only be silenced by the entry of new position data [ETSI EN 300 338-1, n.4.10.4]	**X**		
If the ship's position is older than 4 h shall be displayed reminder shall remain until the position is updated; [ETSI EN 300 338-1, n.4.10.4]	**X**		
The reminder shall remain until the position is updated; [ETSI EN 300 338-1, n.4.10.4]	**X**		
Any position information not updated for more 23.5 h **automatically erased** [ETSI EN 300 338-1, n.4.10.4]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

e) If the ships' position is older than 23,5 h, the position values shall be erased, an alarm shall sound that can only be silenced manually or by the reception or entry of new position data, a displayed reminder shall remain until the position is updated.
Verify that:

Position update alarm and Automatically erased of ship's position information when ship's position is older than 23.5 h **External EPFD input position**	**Result**		**Com-ment**
	YES	**NO**	
If the ship's position is older than 23.5 h, an alarm shall sound [ETSI EN 300 338-1, n.4.10.4]	**X**		
The sound alarm can only be silenced manually [ETSI EN 300 338-1, n.4.10.4]	**X**		
The sound alarm can only be silenced by the reception of new position data [ETSI EN 300 338-1, n.4.10.4]	**X**		
The sound alarm can only be silenced by the entry of new position data [ETSI EN 300 338-1, n.4.10.4]	**X**		
If the ship's position is older than 4 h shall be displayed reminder shall remain until the position is updated; [ETSI EN 300 338-1, n.4.10.4]	**X**		
The reminder shall remain until the position is updated; [ETSI EN 300 338-1, n.4.10.4]	**X**		
Any position information not updated for more 23.5 h **automatically erased** [ETSI EN 300 338-1, n.4.10.4]	**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

12.3. Facilities for automatic entry of position information test

[ETSI EN 300 338-1(2010-02), n.9.3]
[IEC 61162-1, Ed.3]

Means shall be provided for manual entry of the geographical position information and of the time when this position information was valid. In addition, facilities for automatic entry and encoding of the geographical position, geographical area and time information (UTC) shall be provided. Such facilities shall conform with IEC 61162-1.
As a minimum the equipment shall recognize the following sentences : GLL, GGA, RMC and GNS.

[ETSI EN 300 338-1(2010-02), n.9.3]

A record of the DSC activity shall be available containing the following information which shall be able to be displayed:
a) **the UTC time and date of reception**;

[ETSI EN 300 338-1(2010-02), n.6.3,a]

Method of measurement and required results

Means shall be provided for automatic entry and encoding of the geographical position, geographical area and time information (UTC). Such facilities shall conform with IEC 61162-1. As a minimum the equipment shall recognize the following sentences : GLL, GGA, RMC and GNS. Verify that:

Entry of information						
Subject		**Value**		**Result**		**Comment**
		YES	**NO**	**YES**	**NO**	
Facilities for automatic entry and encoding of the geographical position, geographical area and time information (UTC) shall be provided.		**X**		**X**		
As a minimum the equipment shall recognize the following sentences	**GLL**	**X**		**X**		
	GGA	**X**		**X**		
	RMC	**X**		**X**		
	GNS	**X**		**X**		
	ZDA	**X**		**X**		[ETSI EN 300 338-2, n.6.3,a]
Type of interface:	**IEC 61162-1**	**X**		**X**		
Such facilities shall conform with IEC 61162-1.	**IEC 61162-2**		**X**	**X**		

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

12.4. Protocol test of the entry position information inteface

[IEC 61162-1, Ed.3, n.7.4]
[IEC 61162-1, Ed.3, Ann.B, B.4.9.2]

4.9.2 Data strings received by the EUT

Artificially generated data strings with various content and formatting shall be sent to the EUT. These are generated by the above-mentioned means and in accordance with the manufacturer's documentation.
a) Test of correct evaluation of the data.
b) Test of correct evaluation of all status indications and the selected operation mode.
c) Test of adequate reaction in case of incorrectness corresponding with the status information and the selected operation mode.
d) Test of correct evaluation of the checksum.
e) Test of break of data line.
f) Test of the required receiving intervals (if necessary).

7.4 Error detection and handling

Listening devices shall detect errors in data transmission including:
a) checksum error (see 7.2.3);
b) invalid characters (see 7.1.2);
c) incorrect length of address field (see 7.2.1), and data fields as specified within sentence definitions;
d) time out of sentence transfer (see 7.3.9).
Listening devices shall use only correct sentences, consistent with the version of IEC 61162-1 supported by the talker devices.

[IEC 61162-1, Ed.3, n.7.4]
[IEC 61162-1, Ed.3, Ann.B, B.4.9.2]

Scenario	**Legend**
Is not required	*TestH_3_8_2_1*
Is not required	*TestH_3_8_2_2*
Is not required	*TestH_3_8_2_3*
Is not required	*TestH_3_8_2_4*

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Method of measurement and required results

Artificially generated data strings with various content and formatting shall be sent to the EUT.

a) TE sends RMC sentence. Verify that:

Testing decoding of sentence RMC	**Result**		**Com-ment**
	YES	**NO**	
EUT should correct evaluation of the data. [IEC 61162-1, Ed.3, Ann.B, B.4.9.2,a]	**X**		
EUT should correct evaluation of all status indications and the selected operation mode. [IEC 61162-1, Ed.3, Ann.B, B.4.9.2,b]	**X**		
EUT should adequate reaction in case of incorrectness corresponding with the status information and the selected operation mode. [IEC 61162-1, Ed.3, Ann.B, B.4.9.2,c]	**X**		
EUT should correct evaluation of the checksum. [IEC 61162-1, Ed.3, Ann.B, B.4.9.2,d]	**X**		
EUT shall detect checksum error [IEC 61162-1, Ed.3, n.7.4,a]	**X**		
EUT shali detect invalid characters in data transmission; [IEC 61162-1, Ed.3, n.7.4,b]	**X**		
EUT shall detect incorrect length of address field, and data fields as specified within sentence definitions; [IEC 61162-1, Ed.3, n.7.4,c]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Subject		**Legend**	**Comment**
RMC	**Valid data**	*TestH_3_8_2_1(RMC)*	
	Not Valid data (Status)	*TestH_3_8_2_2(RMC)*	
	Not Valid data (Mode indicator)	*TestH_3_8_2_3(RMC)*	
	Incorrect information	*TestH_3_8_2_4(RMC)*	
	Checksum error	*TestH_3_8_2_4(RMC)*	

TestH_3_8_2_1(RMC)

Position information					
Item	**EUT**	**IEC 61162 data**	**Result**		**Comment**
			YES	**NO**	
Latitude	12°34' 5678 N	12°34' 5678 N	**X**		
Longitude	065°43' 9876 E	065°43' 9876 E	**X**		
UTC	12:34	12:34	**X**		Check current UTC
Date	29.12.06	29.12.06	n.a	n.a	

TestH_3_8_2_2(RMC)

Position information						
Status		**EUT**	**IEC 61162 data**	**Result**		**Comment**
				YES	**NO**	
A= **Data valid**	**Latitude**	12°34' 5678 N	12°34' 5678 N	**X**		
	Longitude	065°43'9876 E	065°43' 9876 E	**X**		
	UTC	00:00	00:00	**X**		Check current UTC
	Date	19.11.2006	19.11.2006	n.a	n.a	
V= **Navigation receiver warning**	**Latitude**	12°34' 5678 N	00°00' 0000 N	**X**		Should store previous data (for Status=A)
	Longitude	065°43'9876 E	000°00' 0000 E	**X**		Should store previous data (for Status=A)
	UTC	00:02	00:03	**X**		Should store previous data (for Status=A)
	Date	19.11.06	20.11.03	n.a	n.a	Should store previous data (for Status=A)

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

TestH_3_8_2_3(RMC)

Position information						
Mode indicator		**EUT**	**IEC 61162 data**	**Result**		**Comment**
				YES	**NO**	
A= **Autono-mous mode**	**Latitude**	01°00' 0000 S	01°00' 0000 S	**X**		
	Longitude	101°00' 0000 W	101°00' 0000 W	**X**		
	UTC	00:00	00:00	**X**		Check current UTC
	Date	19.12.06	19.12.06	n.a	n.a	
D= **Differential mode**	**Latitude**	02°00' 0000 S	02°00' 0000 S	**X**		
	Longitude	102°00' 0000 W	102°00' 0000 W	**X**		
	UTC	00:03	00:03	**X**		Check current UTC
	Date	12.12.06	12.12.06	n.a	n.a	
E= **Estimated mode**	**Latitude**	02°00' 0000 S	03°00' 0000 S	**X**		Should be previous data
	Longitude	102°00' 0000 W	103°00' 0000 W	**X**		Should be previous data
	UTC	00:03	00:06	**X**		Should be previous data
	Date	12.12.06	13.12.06	n.a	n.a	Should be previous data
M= **Manual input mode**	**Latitude**	02°00' 0000 S	04°00' 0000 S	**X**		Should be previous data
	Longitude	102°00' 0000 W	104°00' 0000 W	**X**		Should be previous data
	UTC	00:03	00:09	**X**		Should be previous data
	Date	12.12.06	14.12.06	n.a	n.a	Should be previous data
S= **Simulator mode**	**Latitude**	02°00' 0000 S	05°00' 0000 S	**X**		Should be previous data
	Longitude	102°00' 0000 W	105°00' 0000 W	**X**		Should be previous data
	UTC	00:03	00:12	**X**		Should be previous data
	Date	12.12.06	15.12.06	n.a	n.a	Should be previous data
N= **Data not valid**	**Latitude**	02°00' 0000 S	06°00' 0000 S	**X**		Should be previous data
	Longitude	102°00' 0000 W	106°00' 0000 W	**X**		Should be previous data
	UTC	00:03	00:15	**X**		Should be previous data
	Date	12.12.06	16.12.06	n.a	n.a	Should be previous data

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

TestH_3_8_2_4(RMC)

Position information						
Mode indicator		**EUT**	**IEC 61162 data**	**Result**		**Comment**
				YES	**NO**	
A= **Autono-mous mode** **Data correct**	**Latitude**	10°00' 0000 N	10°00' 0000 N	**X**		
	Longitude	110°00' 0000 E	110°00' 0000 E	**X**		
	UTC	00:00	00:00	**X**		Check current UTC
	Date	10.12.06	10.12.06	n.a	n.a	
Wrong latitude	**Latitude**	10°00' 0000 N	11°70' 0000 N	**X**		Should be previous data
	Longitude	110°00' 0000 E	111°00' 0000 E	**X**		Should be previous data
	UTC	00:02	00:03	**X**		Should be previous data
	Date	10.12.06	11.12.06	n.a	n.a	Should be previous data
Wrong longitude	**Latitude**	10°00' 0000 N	12°00' 0000 N	**X**		Should be previous data
	Longitude	110°00' 0000 E	181°00' 0000 E	**X**		Should be previous data
	UTC	00:02	00:06	**X**		Should be previous data
	Date	10.12.06	12.12.06	n.a	n.a	Should be previous data
Wrong Date	**Latitude**	10°00' 0000 N	13°00' 0000 N	**X**		Should be previous data
	Longitude	110°00' 0000 E	113°00' 0000 E	**X**		Should be previous data
	UTC	00:02	00:09	**X**		Should be previous data
	Date	10.12.06	34.13.06	n.a	n.a	Should be previous data
Wrong checksum	**Latitude**	10°00' 0000 N	14°00' 0000 N	**X**		Should be previous data
	Longitude	110°00' 0000 E	114°00' 0000 E	**X**		Should be previous data
	UTC	00:02	00:12	**X**		Should be previous data
	Date	10.12.06	14.12.06	n.a	n.a	Should be previous data
Wrong checksum	**Latitude**	10°00' 0000 N	15°00' 0000 N	**X**		Should be previous data
	Longitude	110°00' 0000 E	115°00' 0000 E	**X**		Should be previous data
	UTC	00:02	00:15	**X**		Should be previous data
	Date	10.12.06	15.12.06	n.a	n.a	Should be previous data

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

b) TE sends GNS sentence. Verify that:

Testing decoding of sentence GNS	**Result**		**Com-ment**
	YES	**NO**	
EUT should correct evaluation of the data. [IEC 61162-1, Ed.3, Ann.B, B.4.9.2,a]	**X**		
EUT should correct evaluation of all status indications and the selected operation mode. [IEC 61162-1, Ed.3, Ann.B, B.4.9.2,b]	**X**		
EUT should adequate reaction in case of incorrectness corresponding with the status information and the selected operation mode. [IEC 61162-1, Ed.3, Ann.B, B.4.9.2,c]	**X**		
EUT should correct evaluation of the checksum. [IEC 61162-1, Ed.3, Ann.B, B.4.9.2,d]	**X**		
EUT shall detect checksum error [IEC 61162-1, Ed.3, n.7.4,a]	**X**		
EUT shali detect invalid characters in data transmission; [IEC 61162-1, Ed.3, n.7.4,b]	**X**		
EUT shall detect incorrect length of address field, and data fields as specified within sentence definitions; [IEC 61162-1, Ed.3, n.7.4,c]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Subject		**Legend**	**Comment**
GNS	**Valid data**	*TestH_3_8_2_1(GNS)*	
	Not Valid data (Status)	*N/A*	
	Not Valid data (Mode indicator)	*TestH_3_8_2_3(GNS)*	
	Incorrect information	*TestH_3_8_2_4(GNS)*	
	Checksum error	*TestH_3_8_2_4(GNS)*	

TestH_3_8_2_1(GNS)

Position information					
Item	**EUT**	**IEC 61162 data**	**Result**		**Comment**
			YES	**NO**	
Latitude	12°34' 5678 N	12°34' 5678 N	**X**		
Longitude	065°43' 9876 E	065°43' 9876 E	**X**		
UTC	12:34	12:34	**X**		Check current UTC

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

TestH_3_8_2_3(GNS)

Mode indicator		**EUT**	**IEC 61162 data**	**Result**		**Comment**
				YES	**NO**	
A= **Autono-mous mode**	**Latitude**	01°00' 0000 S	01°00' 0000 S	**X**		
	Longitude	101°00' 0000 W	101°00' 0000 W	**X**		
	UTC	00:00	00:00	**X**		Check current UTC
D= **Differential mode**	**Latitude**	02°00' 0000 S	02°00' 0000 S	**X**		
	Longitude	102°00' 0000 W	102°00' 0000 W	**X**		
	UTC	00:03	00:03	**X**		Check current UTC
P= **Precise mode**	**Latitude**	03°00' 0000 S	03°00' 0000 S	**X**		
	Longitude	103°00' 0000 W	103°00' 0000 W	**X**		
	UTC	00:06	00:06	**X**		Check current UTC
R= **RTK mode**	**Latitude**	04°00' 0000 S	04°00' 0000 S	**X**		
	Longitude	104°00' 0000 W	104°00' 0000 W	**X**		
	UTC	00:09	00:09	**X**		
F= **Float RTK mode**	**Latitude**	05°00' 0000 S	05°00' 0000 S	**X**		
	Longitude	105°00' 0000 W	105°00' 0000 W	**X**		
	UTC	00:12	00:12	**X**		
E= **Estimated mode**	**Latitude**	05°00' 0000 S	06°00' 0000 S	**X**		Should be previous data
	Longitude	105°00' 0000 W	106°00' 0000 W	**X**		Should be previous data
	UTC	00:14	00:15	**X**		Should be previous data
M= **Manual input mode**	**Latitude**	05°00' 0000 S	07°00' 0000 S	**X**		Should be previous data
	Longitude	105°00' 0000 W	107°00' 0000 W	**X**		Should be previous data
	UTC	00:14	00:18	**X**		Should be previous data
S= **Simulator mode**	**Latitude**	05°00' 0000 S	08°00' 0000 S	**X**		Should be previous data
	Longitude	105°00' 0000 W	108°00' 0000 W	**X**		Should be previous data
	UTC	00:14	00:21	**X**		Should be previous data
N= **No fix**	**Latitude**	05°00' 0000 S	09°00' 0000 S	**X**		Should be previous data
	Longitude	105°00' 0000 W	109°00' 0000 W	**X**		Should be previous data
	UTC	00:14	00:24	**X**		Should be previous data

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Mode indicator		**EUT**	**IEC 61162 data**	**Result**		**Comment**
				YES	**NO**	
AN=	**Latitude**	10°00' 0000 N	10°00' 0000 N	**X**		
	Longitude	110°00' 0000 E	110°00' 0000 E	**X**		
	UTC	00:27	00:27	**X**		
NA=	**Latitude**	11°00' 0000 N	11°00' 0000 N	**X**		
	Longitude	111°00' 0000 E	111°00' 0000 E	**X**		
	UTC	00:30	00:30	**X**		

TestH_3_8_2_4(GNS)

Position information						
Mode indicator		**EUT**	**IEC 61162 data**	**Result**		**Comment**
				YES	**NO**	
A=Autono-mous mode **Data correct**	**Latitude**	10°00' 0000 N	10°00' 0000 N	**X**		
	Longitude	110°00' 0000 E	110°00' 0000 E	**X**		
	UTC	00:00	00:00	**X**		Check current UTC
Wrong latitude	**Latitude**	10°00' 0000 N	11°70' 0000 N	**X**		Should be previous data
	Longitude	110°00' 0000 E	111°00' 0000 E	**X**		Should be previous data
	UTC	00:00	00:03	**X**		Should be previous data
Wrong longitude	**Latitude**	10°00' 0000 N	12°00' 0000 N	**X**		Should be previous data
	Longitude	110°00' 0000 E	181°00' 0000 E	**X**		Should be previous data
	UTC	00:00	00:06	**X**		Should be previous data
Wrong Mode Indicator =L	**Latitude**	10°00' 0000 N	13°00' 0000 N	**X**		Should be previous data
	Longitude	110°00' 0000 E	113°00' 0000 E	**X**		Should be previous data
	UTC	00:00	00:09	**X**		Should be previous data
Wrong checksum	**Latitude**	10°00' 0000 N	14°00' 0000 N	**X**		Should be previous data
	Longitude	110°00' 0000 E	114°00' 0000 E	**X**		Should be previous data
	UTC	00:00	00:12	**X**		Should be previous data
Wrong checksum	**Latitude**	10°00' 0000 N	15°00' 0000 N	**X**		Should be previous data
	Longitude	110°00' 0000 E	115°00' 0000 E	**X**		Should be previous data
	UTC	00:00	00:15	**X**		Should be previous data

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

c) TE sends GGA sentence. Verify that:

Testing decoding of sentence GGA	**Result**		**Comment**
	YES	**NO**	
EUT should correct evaluation of the data. [IEC 61162-1, Ed.3, Ann.B, B.4.9.2,a]	**X**		
EUT should correct evaluation of all status indications and the selected operation mode. [IEC 61162-1, Ed.3, Ann.B, B.4.9.2,b]	**X**		
EUT should adequate reaction in case of incorrectness corresponding with the status information and the selected operation mode. [IEC 61162-1, Ed.3, Ann.B, B.4.9.2,c]	**X**		
EUT should correct evaluation of the checksum. [IEC 61162-1, Ed.3, Ann.B, B.4.9.2,d]	**X**		
EUT shall detect checksum error [IEC 61162-1, Ed.3, n.7.4,a]	**X**		
EUT shali detect invalid characters in data transmission; [IEC 61162-1, Ed.3, n.7.4,b]	**X**		
EUT shall detect incorrect length of address field, and data fields as specified within sentence definitions; [IEC 61162-1, Ed.3, n.7.4,c]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Subject		**Legend**	**Comment**
GGA	**Valid data**	*TestH_3_8_2_1(GGA)*	
	Not Valid data (Status)	*N/A*	
	Not Valid data (Mode indicator)	*TestH_3_8_2_3(GGA)*	
	Incorrect information	*TestH_3_8_2_4(GGA)*	
	Checksum error	*TestH_3_8_2_4(GGA)*	

TestH_3_8_2_1(GGA)

Position information					
Item	**EUT**	**IEC 61162 data**	**Result**		**Comment**
			YES	**NO**	
Latitude	12°34' 5678 N	12°34' 5678 N	**X**		
Longitude	065°43' 9876 E	065°43' 9876 E	**X**		
UTC	12:34	12:34	**X**		Check current UTC

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

TestH_3_8_2_3(GGA)

Position information						
GPS quality indicator		**EUT**	**IEC 61162 data**	**Result**		**Comment**
				YES	**NO**	
1= GPS SPS mode	**Latitude**	01°00' 0000 S	01°00' 0000 S	**X**		
	Longitude	101°00' 0000 W	101°00' 0000 W	**X**		
	UTC	00:00	00:00	**X**		Check current UTC
2= Differential GPS SPS mode	**Latitude**	02°00' 0000 S	02°00' 0000 S	**X**		
	Longitude	102°00' 0000 W	102°00' 0000 W	**X**		
	UTC	00:03	00:03	**X**		Check current UTC
3= GPS PPS (Precise) mode	**Latitude**	03°00' 0000 S	03°00' 0000 S	**X**		
	Longitude	103°00' 0000 W	103°00' 0000 W	**X**		
	UTC	00:06	00:06	**X**		Check current UTC
4= RTK mode	**Latitude**	04°00' 0000 S	04°00' 0000 S	**X**		
	Longitude	104°00' 0000 W	104°00' 0000 W	**X**		
	UTC	00:09	00:09	**X**		
5= Float RTK mode	**Latitude**	05°00' 0000 S	05°00' 0000 S	**X**		
	Longitude	105°00' 0000 W	105°00' 0000 W	**X**		
	UTC	00:12	00:12	**X**		
6= Estimated mode	**Latitude**	05°00' 0000 S	06°00' 0000 S	**X**		Should be previous data
	Longitude	105°00' 0000 W	106°00' 0000 W	**X**		Should be previous data
	UTC	00:12	00:15	**X**		Should be previous data
7= Manual input mode	**Latitude**	05°00' 0000 S	07°00' 0000 S	**X**		Should be previous data
	Longitude	105°00' 0000 W	107°00' 0000 W	**X**		Should be previous data
	UTC	00:12	00:18	**X**		Should be previous data
8= Simulator mode	**Latitude**	05°00' 0000 S	08°00' 0000 S	**X**		Should be previous data
	Longitude	105°00' 0000 W	108°00' 0000 W	**X**		Should be previous data
	UTC	00:12	00:21	**X**		Should be previous data
0= No fix	**Latitude**	05°00' 0000 S	09°00' 0000 S	**X**		Should be previous data
	Longitude	105°00' 0000 W	109°00' 0000 W	**X**		Should be previous data
	UTC	00:12	00:24	**X**		Should be previous data

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

TestH_3_8_2_4(GGA)

Position information						
GPS quality indicator		**EUT**	**IEC 61162 data**	**Result**		**Comment**
				YES	**NO**	
1= GPS SPS mode Data correct	**Latitude**	10°00' 0000 N	10°00' 0000 N	**X**		
	Longitude	110°00' 0000 E	110°00' 0000 E	**X**		
	UTC	00:00	00:00	**X**		Check current UTC
Wrong latitude	**Latitude**	10°00' 0000 N	11°70' 0000 N	**X**		Should be previous data
	Longitude	110°00' 0000 E	111°00' 0000 E	**X**		Should be previous data
	UTC	00:00	00:03	**X**		Should be previous data
Wrong longitude	**Latitude**	10°00' 0000 N	12°00' 0000 N	**X**		Should be previous data
	Longitude	110°00' 0000 E	181°00' 0000 E	**X**		Should be previous data
	UTC	00:00	00:06	**X**		Should be previous data
Wrong GPS quality Indicator =9	**Latitude**	10°00' 0000 N	13°00' 0000 N	**X**		Should be previous data
	Longitude	110°00' 0000 E	113°00' 0000 E	**X**		Should be previous data
	UTC	00:00	00:09	**X**		Should be previous data
Wrong checksum	**Latitude**	10°00' 0000 N	14°00' 0000 N	**X**		Should be previous data
	Longitude	110°00' 0000 E	114°00' 0000 E	**X**		Should be previous data
	UTC	00:00	00:12	**X**		Should be previous data
Wrong checksum	**Latitude**	10°00' 0000 N	15°00' 0000 N	**X**		Should be previous data
	Longitude	110°00' 0000 E	115°00' 0000 E	**X**		Should be previous data
	UTC	00:00	00:15	**X**		Should be previous data

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

d) TE sends GLL sentence. Verify that:

Testing decoding of sentence GLL	**Result**		**Com-ment**
	YES	**NO**	
EUT should correct evaluation of the data. [IEC 61162-1, Ed.3, Ann.B, B.4.9.2,a]	**X**		
EUT should correct evaluation of all status indications and the selected operation mode. [IEC 61162-1, Ed.3, Ann.B, B.4.9.2,b]	**X**		
EUT should adequate reaction in case of incorrectness corresponding with the status information and the selected operation mode. [IEC 61162-1, Ed.3, Ann.B, B.4.9.2,c]	**X**		
EUT should correct evaluation of the checksum. [IEC 61162-1, Ed.3, Ann.B, B.4.9.2,d]	**X**		
EUT shall detect checksum error [IEC 61162-1, Ed.3, n.7.4,a]	**X**		
EUT shali detect invalid characters in data transmission; [IEC 61162-1, Ed.3, n.7.4,b]	**X**		
EUT shall detect incorrect length of address field, and data fields as specified within sentence definitions; [IEC 61162-1, Ed.3, n.7.4,c]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Subject		**Legend**	**Comment**
GLL	**Valid data**	*TestH_3_8_2_1(GLL)*	
	Not Valid data (Status)	*TestH_3_8_2_2(GLL)*	
	Not Valid data (Mode indicator)	*TestH_3_8_2_3(GLL)*	
	Incorrect information	*TestH_3_8_2_4(GLL)*	
	Checksum error	*TestH_3_8_2_4(GLL)*	

TestH_3_8_2_1(GLL)

Position information					
Item	**EUT**	**IEC 61162 data**	**Result**		**Comment**
			YES	**NO**	
Latitude	12°34' 5678 N	12°34' 5678 N	**X**		
Longitude	065°43' 9876 E	065°43' 9876 E	**X**		
UTC	12:34	12:34	**X**		Check current UTC

TestH_3_8_2_2(GLL)

Position information						
Status		**EUT**	**IEC 61162 data**	**Result**		**Comment**
				YES	**NO**	
A= **Data valid**	**Latitude**	12°34' 5678 N	12°34' 5678 N	**X**		
	Longitude	065°43'9876 E	065°43' 9876 E	**X**		
	UTC	00:00	00:00	**X**		Check current UTC
V= **Data invalid**	**Latitude**	12°34' 5678 N	00°00' 0000 N	**X**		Should store previous data (for Status=A)
	Longitude	065°43'9876 E	000°00' 0000 E	**X**		Should store previous data (for Status=A)
	UTC	00:00	00:03	**X**		Should store previous data (for Status=A)

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

TestH_3_8_2_3(GLL)

Position information						
Mode indicator		**EUT**	**IEC 61162 data**	**Result**		**Comment**
				YES	**NO**	
A= **Autono-mous mode**	**Latitude**	01°00' 0000 S	01°00' 0000 S	**X**		
	Longitude	101°00' 0000 W	101°00' 0000 W	**X**		
	UTC	00:00	00:00	**X**		Check current UTC
D= **Differential mode**	**Latitude**	02°00' 0000 S	02°00' 0000 S	**X**		
	Longitude	102°00' 0000 W	102°00' 0000 W	**X**		
	UTC	00:03	00:03	**X**		Check current UTC
E= **Estimated mode**	**Latitude**	02°00' 0000 S	03°00' 0000 S	**X**		Should be previous data
	Longitude	102°00' 0000 W	103°00' 0000 W	**X**		Should be previous data
	UTC	00:03	00:06	**X**		Should be previous data
M= **Manual input mode**	**Latitude**	02°00' 0000 S	04°00' 0000 S	**X**		Should be previous data
	Longitude	102°00' 0000 W	104°00' 0000 W	**X**		Should be previous data
	UTC	00:03	00:09	**X**		Should be previous data
S= **Simulator mode**	**Latitude**	02°00' 0000 S	05°00' 0000 S	**X**		Should be previous data
	Longitude	102°00' 0000 W	105°00' 0000 W	**X**		Should be previous data
	UTC	00:03	00:12	**X**		Should be previous data
N= **Data not valid**	**Latitude**	02°00' 0000 S	06°00' 0000 S	**X**		Should be previous data
	Longitude	102°00' 0000 W	106°00' 0000 W	**X**		Should be previous data
	UTC	00:03	00:15	**X**		Should be previous data

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

TestH_3_8_2_4(GLL)

Position information						
Mode indicator		**EUT**	**IEC 61162 data**	**Result**		**Comment**
				YES	**NO**	
A= **Autono-mous mode** **Data correct**	**Latitude**	10°00' 0000 N	10°00' 0000 N	**X**		
	Longitude	110°00' 0000 E	110°00' 0000 E	**X**		
	UTC	00:00	00:00	**X**		Check current UTC
	Date	10.12.06	10.12.06	**X**		
Wrong latitude	**Latitude**	10°00' 0000 N	11°70' 0000 N	**X**		Should be previous data
	Longitude	110°00' 0000 E	111°00' 0000 E	**X**		Should be previous data
	UTC	00:00	00:03	**X**		Should be previous data
	Date	10.12.06	11.12.06	**X**		Should be previous data
Wrong longitude	**Latitude**	10°00' 0000 N	12°00' 0000 N	**X**		Should be previous data
	Longitude	110°00' 0000 E	181°00' 0000 E	**X**		Should be previous data
	UTC	00:00	00:06	**X**		Should be previous data
	Date	10.12.06	12.12.06	**X**		Should be previous data
Wrong Mode indicator =L	**Latitude**	10°00' 0000 N	13°00' 0000 N	**X**		Should be previous data
	Longitude	110°00' 0000 E	113°00' 0000 E	**X**		Should be previous data
	UTC	00:00	00:09	**X**		Should be previous data
	Date	10.12.06	34.13.06	**X**		Should be previous data
Wrong checksum	**Latitude**	10°00' 0000 N	14°00' 0000 N	**X**		Should be previous data
	Longitude	110°00' 0000 E	114°00' 0000 E	**X**		Should be previous data
	UTC	00:00	00:12	**X**		Should be previous data
	Date	10.12.06	14.12.06	**X**		Should be previous data
Wrong checksum	**Latitude**	10°00' 0000 N	15°00' 0000 N	**X**		Should be previous data
	Longitude	110°00' 0000 E	115°00' 0000 E	**X**		Should be previous data
	UTC	00:00	00:15	**X**		Should be previous data
	Date	10.12.06	15.12.06	**X**		Should be previous data

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

e) TE sends GGA sentence. Verify that:

Testing decoding of sentence ZDA	**Result**		**Com-ment**
	YES	**NO**	
EUT should correct evaluation of the data. [IEC 61162-1, Ed.3, Ann.B, B.4.9.2,a]	**X**		
EUT should correct evaluation of all status indications and the selected operation mode. [IEC 61162-1, Ed.3, Ann.B, B.4.9.2,b]	**X**		
EUT should adequate reaction in case of incorrectness corresponding with the status information and the selected operation mode. [IEC 61162-1, Ed.3, Ann.B, B.4.9.2,c]	**X**		
EUT should correct evaluation of the checksum. [IEC 61162-1, Ed.3, Ann.B, B.4.9.2,d]	**X**		
EUT shall detect checksum error [IEC 61162-1, Ed.3, n.7.4,a]	**X**		
EUT shali detect invalid characters in data transmission; [IEC 61162-1, Ed.3, n.7.4,b]	**X**		
EUT shall detect incorrect length of address field, and data fields as specified within sentence definitions; [IEC 61162-1, Ed.3, n.7.4,c]	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Subject		**Legend**	**Comment**
ZDA	**Valid data**	*TestH_3_8_2_1(ZDA)*	
	Incorrect information	*TestH_3_8_2_4(ZDA)*	
	Checksum error	*TestH_3_8_2_4(ZDA)*	

TestH_3_8_2_1(ZDA)

Time and date information						
Item		**EUT**	**IEC 61162 data**	**Result**		**Comment**
				YES	**NO**	
System UTC		10:15	10:15	**X**		Check current UTC **(Note)**
Date	**Day**	09	09	**X**		
	Month	10	10	**X**		
	Year	2007	2007	**X**		
System UTC		10:20	10:20	**X**		Check current UTC **(Note)**
Date	**Day**	31	31	**X**		
	Month	01	01	**X**		
	Year	2008	2008	**X**		

NOTE:
It is system (current) time (No time of the position fixed).

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

TestH_3_8_2_4(ZDA)

Position information						
Mode indicator		**EUT**	**IEC 61162 data**	**Result**		**Comment**
				YES	**NO**	
A= **UTC and Date correct**	**System UTC**	00:00	00:00	**X**		
	Day	31	31	**X**		
	Month	12	12	**X**		
	Year	2006	2006	**X**		
Wrong **Day**	**System UTC**	00:00	00:03	**X**		Should be previous data
	Day	31	00	**X**		Should be previous data
	Month	12	10	**X**		Should be previous data
	Year	2006	2007	**X**		Should be previous data
Wrong **Month**	**System UTC**	00:00	00:06	**X**		Should be previous data
	Day	31	01	**X**		Should be previous data
	Month	12	13	**X**		Should be previous data
	Year	2006	2005	**X**		Should be previous data
Wrong **Year**	**System UTC**	00:00	00:09	**X**		Should be previous data
	Day	31	02	**X**		Should be previous data
	Month	12	08	**X**		Should be previous data
	Year	2006	2H07	**X**		Should be previous data
Wrong checksum	**System UTC**	00:00	00:12	**X**		Should be previous data
	Day	31	04	**X**		Should be previous data
	Month	12	11	**X**		Should be previous data
	Year	2006	2008	**X**		Should be previous data
Wrong checksum	**System UTC**	00:00	00:15	**X**		Should be previous data
	Day	31	05	**X**		Should be previous data
	Month	12	12	**X**		Should be previous data
	Year	2006	2005	**X**		Should be previous data

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

12.5. Test under maximum interface workload

[IEC 61162-1, ed.3, B.4.6]

After activating all ports of the EUT with the maximum number of sentences to be transmitted and/or received, the performance of the EUT shall not be degraded in any way. At least one receiver input not used to perform the primary function of the EUT shall be connected to a data source transmitting continuously a set of approved sentences with a channel limit of 80 % to 90 %. Only one of these sentences shall be usable for the EUT. The test shall be carried out for 30 minutes. The EUT may give an alarm for a minor function not supported by the selected sentence, but the main function of the EUT shall be operational without any degradation.

[IEC 61162-1, ed.3, B.4.6]

Method of measurement and required results

After activating all ports of the EUT with the maximum number of sentences to be transmitted and/or received, the performance of the EUT shall not be degraded in any way. At least one receiver input not used to perform the primary function of the EUT shall be connected to a data source transmitting continuously a set of approved sentences with a channel limit of 80 % to 90 %. Only one of these sentences shall be usable for the EUT. The test shall be carried out for 30 minutes. The EUT may give an alarm for a minor function not supported by the selected sentence, but the main function of the EUT shall be operational without any degradation. Verify that:

Scenario	**Legend**
Is not required	*TestH_3_8_3_1*
Is not required	*TestH_3_8_3_2*

TestH_3_8_3_1 For port baud rate 4800 bps (IEC 61162-1)
TestH_3_8_3_2 For port baud rate 38400 bps (IEC 61162-2)

Test under maximum interface workload				
Subject	**Value**	**Result**		**Comment**
		OK	**NO**	
The EUT shall be operational without any degradation. [IEC 61162-1, ed.3, B.4.6]	**>80 per cent**	**X**		

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

TestH_3_8_3_1

Time, date and position information						
Item		**EUT**	**IEC 61162 data**	**Result**		**Comment**
				YES	**NO**	
Position	**UTC**	10:00	10:00	**X**		
	Latitude	00°00' 0000N …88°55' 5555N	00°00' 0000N …88°55' 5555N	**X**		
	Longitude	000°00' 0000 E	000°00' 0000 E	**X**		
System UTC		10:00	10:00	**X**		If supported
Date	**Day**	31	31	**X**		If supported
	Month	12	12	**X**		If supported
	Year	2006	2006	**X**		If supported

TestH_3_8_3_2

Time, date and position information						
Item		**EUT**	**IEC 61162 data**	**Result**		**Comment**
				YES	**NO**	
Position	**UTC**	10:00	10:00	**X**		
	Latitude	00°00' 0000N …88°55' 5555N	00°00' 0000N …88°55' 5555N	**X**		
	Longitude	000°00' 0000 E	000°00' 0000 E	**X**		
System UTC		10:00	10:00	**X**		If supported
Date	**Day**	31	31	**X**		If supported
	Month	12	12	**X**		If supported
	Year	2006	2006	**X**		If supported

The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

13 MF/HF watchkeeping receiver

[ETSI EN 301 033, clause 8.10]

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

13.1. Scanning efficiency test

[ETSI EN 301 033n.8.10]

Definition

Scanning efficiency is the ability of the receiver to correctly receive calls preceded by more than 20 bits of a 200 bit dot pattern and transmitted on one frequency whilst scanning up to six frequencies ignoring all other signals and noise.

Method of measurement and required results

Set the WKR to scan on the all 6 frequencies.
Two RF test signals with a level of 20 dBμV shall be applied to the receiver.
One of the RF signals shall have a nominal frequency corresponding to a frequency in the scanning sequence and shall be equal to standard test signal No. 1 modulated with a single DSC distress call.
The other RF signal shall have a nominal frequency corresponding to another frequency being scanned. It shall be equal to standard test signal No. 1 modulated with DSC calls with 20 dot pattern.
The distress call sequences shall be repeated after a random interval of 2,5 s to 4,0 s.
The receiver shall be set to scan the maximum number of frequencies for which it is designed.
The number of transmitted distress calls shall be 200 and the bit error ratio shall be determined.
The total number of received distress calls shall be equal to or exceed 95 % of distress calls transmitted and the bit error ratio shall be less than or equal to 0.01.

Item		Value
First RF signal	Type	Individual Urgency call addressed to EUT (MMSI EUT 273000000)
	Level	20 dBμV
	Frequency	4207.5 kHz
	Dot pattern	20
Second RF signal	Type	Single frequency one sequence distress call
	Level	20 dBμV
	Frequency	2187.5 kHz
	Dot pattern	200

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

The WKR is set to scan on the all 6 distress frequencies.
Individual Urgency calls and single frequency one sequence distress calls are transmitted by TE.

Item		**Value**
First RF signal Individual Urgency call addressed to EUT (MMSI EUT 273000000)	Transmitted by TE	120
	Received by EUT	2
Second RF signal Single frequency one sequence distress call	Transmitted by TE	120
	Received by EUT	117

Results:

Subject	**Value**	**Result**		**Comment**
		YES	**NO**	
The total number of received distress calls shall be equal to or exceed 95 % of distress calls transmitted and the bit error ratio shall be less than or equal to 0.01. [ETSI EN 301 033 (2010-09), n.8.10]	97.5 per cent	**X**		

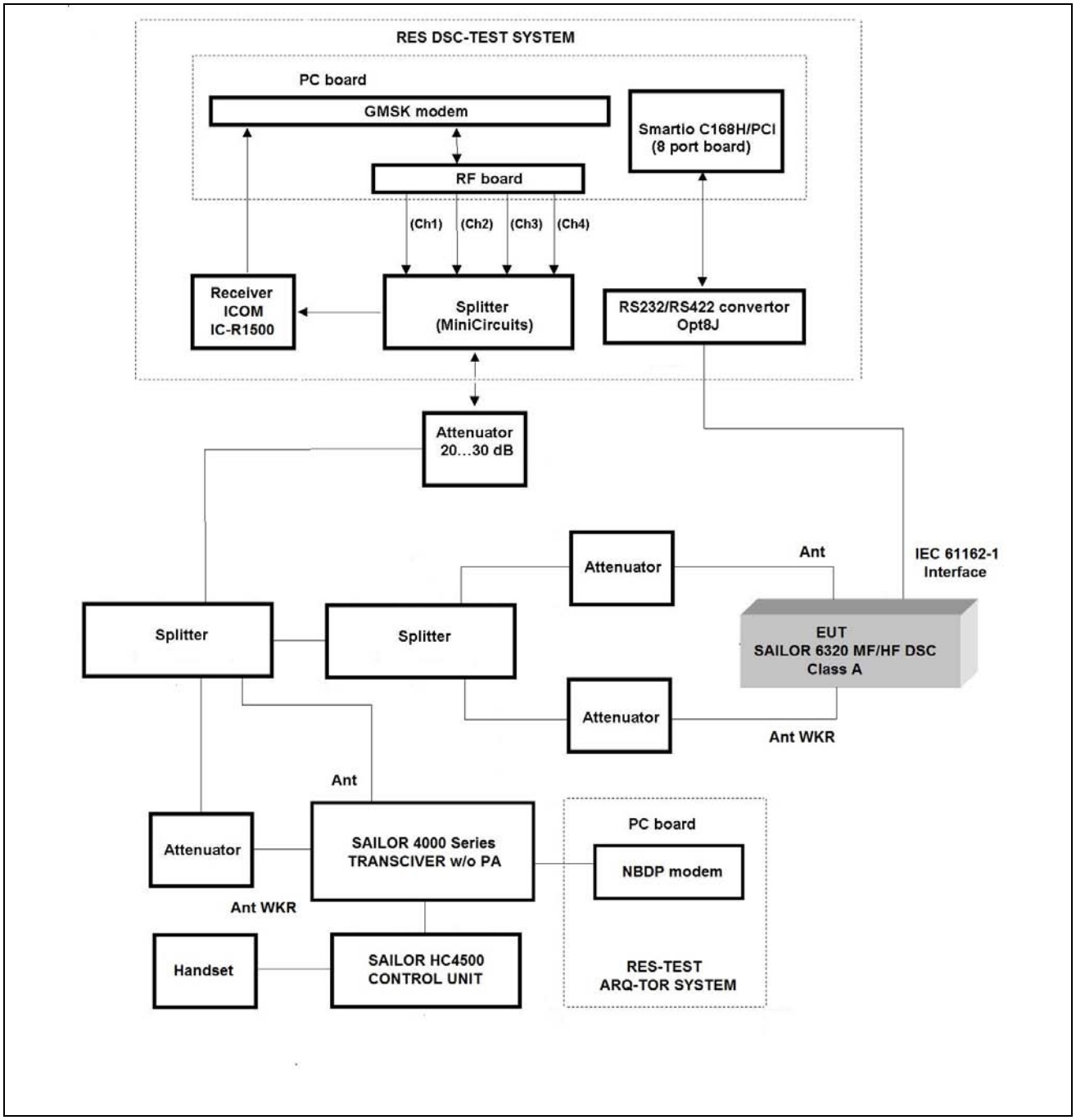
The equipment meets the requirements (yes / no /n.a)	**yes**

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Appendix

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

ANNEX 1
Connection of the RES Laboratory DSC test equipment



Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

ANNEX 2
Recognition of certificates of testing laboratory

ROSSTANDARD

ФЕДЕРАЛЬНОЕ АГЕНТСТВО ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ

№ 001965

АТТЕСТАТ АККРЕДИТАЦИИ ИСПЫТАТЕЛЬНОЙ ЛАБОРАТОРИИ (ЦЕНТРА)

№ РОСС RU. 0001. 21 МП 14

Действителен до « 27 » февраля 2011 г.

НАСТОЯЩИЙ АТТЕСТАТ ВЫДАН ОБЩЕСТВУ С ОГРАНИЧЕННОЙ ОТВЕТСТВЕННОСТЬЮ «РЭС»

наименование юридического лица с указанием организационно-правовой формы

Россия, 199106, г.Санкт-Петербург, Васильевский Остров, Большой проспект, д.83, офис 525

адрес юридического лица

И УДОСТОВЕРЯЕТ, ЧТО ИСПЫТАТЕЛЬНАЯ ЛАБОРАТОРИЯ ПО ПРОВЕРКЕ АЛГОРИТМОВ ФУНКЦИОНИРОВАНИЯ И МАТЕМАТИЧЕСКОГО ОБЕСПЕЧЕНИЯ СУДОВОЙ И БЕРЕГОВОЙ НАВИГАЦИОННОЙ И РАДИОСВЯЗНОЙ АППАРАТУРЫ

наименование ИЛ (ЦИ)

Россия, 199106, г.Санкт-Петербург, Васильевский Остров, Большой проспект, д.83, офис 525

адрес ИЛ (ЦИ)

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ ГОСТ Р ИСО/МЭК 17025 - 2006 (МЕЖДУНАРОДНОГО СТАНДАРТА ИСО/МЭК 17025:2005),

АККРЕДИТОВАН(А) НА техническую компетентность и независимость

(техническую компетентность или техническую компетентность и независимость)

ДЛЯ ПРОВЕДЕНИЯ РАБОТ ПО ИСПЫТАНИЯМ В СООТВЕТСТВИИ С ОБЛАСТЬЮ АККРЕДИТАЦИИ.
ОБЛАСТЬ АККРЕДИТАЦИИ ОПРЕДЕЛЕНА ПРИЛОЖЕНИЕМ К НАСТОЯЩЕМУ АТТЕСТАТУ И ЯВЛЯЕТСЯ ЕГО НЕОТЪЕМЛЕМОЙ ЧАСТЬЮ.

Руководитель (заместитель Руководителя) подпись Г.И. Элькин инициалы, фамилия

Зарегистрирован в Едином реестре
« 27 » февраля 2008 г.

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

Russian Maritime Register of Shipping

РОССИЙСКИЙ МОРСКОЙ РЕГИСТР СУДОХОДСТВА
RUSSIAN MARITIME REGISTER OF SHIPPING

7.1.4.3

СВИДЕТЕЛЬСТВО
О ПРИЗНАНИИ ИСПЫТАТЕЛЬНОЙ ЛАБОРАТОРИИ
RECOGNITION CERTIFICATE
OF TESTING LABORATORY

Настоящим удостоверяется, что
This is to certify that

Испытательная лаборатория: общество с ограниченной ответственностью "РЭС"
Российская Федерация, 199106, г. Санкт-Петербург, В.О., Большой проспект, д. 83, офис 525.
Тел. / Факс.: (812) 325 - 67 - 32; Электронная почта: res@mail.lanck.net
Testing Laboratory: "RES" Company Limited
Office 525, 83 Bol'shoy pr., V.O., Saint-Petersburg, 199106, Russian Federation.
Tel. / Fax.: (812) 325 - 67 - 32; E-mail: res@mail.lanck.net

имеет техническую компетенцию в соответствии с требованиями Российского морского регистра судоходства в отношении проведения испытаний в области признания, указанной в Приложении.
is technically competent under the requirements of Russian Maritime Register of Shipping to carry out testing in the field in which it is reognized as detailed in the Annex.

Судовое радио и навигационное оборудование, требуемое частью IV "Радиооборудование" и частью V "Навигационное оборудование" Правил Регистра по оборудованию морских судов.

Ship's radio and navigational equipment, required by RS Rules for the equipment of sea-going ships (part IV "Radio equipment", part V "Navigational equipment").

Акт освидетельствования № ***07.01106.011*** от ***27.04.2007***
Survey Report No. of

Настоящее Свидетельство действительно до ***28.05.2012***
The present Certificate is valid until

при условии подтверждения через каждые ***30*** месяца(ев).
subject to confirmation each month(s).

Настоящее Свидетельство о признании теряет силу в случаях, установленных в Правилах технического наблюдения за постройкой судов и изготовлением материалов и изделий для судов.
This Recognition Certificate becomes invalid in cases stipulated in Rules for the Technical Supervision during Construction of Ships and Manufacture of Shipboard Materials and Products.

Дата выдачи ***28.05.2007*** № ***07.01413.011***
Date of issue

Российский морской регистр судоходства
Russian Maritime Register of Shipping

М.П. (подпись signature)
L.S.

В.И.Евенко / V.Evenko
(фамилия, инициалы name)

Company:	***Thrane&Thrane***	
Equipment Under Test:	***SAILOR 6320 250W MF/HF DSC Class A***	
Date:	***September 2010 – January 2011***	

MINTRANS RF (MARSAT)

РОССИЯ RUSSIA

МИНИСТЕРСТВО ТРАНСПОРТА РОССИЙСКОЙ ФЕДЕРАЦИИ

АТТЕСТАТ

АККРЕДИТАЦИИ ИСПЫТАТЕЛЬНОЙ ЛАБОРАТОРИИ

№ АКР.07.09–16 РТН

Зарегистрирован в Реестре ФГУП "Морсвязьспутник"

« 01 » июля 2009 г.

Действителен до « 01 » июля 2014 г.

Настоящий удостоверяет, что

ИСПЫТАТЕЛЬНАЯ ЛАБОРАТОРИЯ ООО «РЭС»
(наименование испытательной лаборатории)

199106, г. Санкт-Петербург, В.О. Большой проспект, д. 83, оф. 511, 517
(адрес)

Аккредитована *на независимость и техническую компетентность* в проведении работ по освидетельствованию судовой и береговой навигационной и радиосвязной аппаратуры для одобрения типа. Область аккредитации соответствует приведенной в приложении к настоящему аттестату.

РОСТРАНСНАДЗОР

МОРФЛОТ

Для осуществления государственного надзора

(подпись)