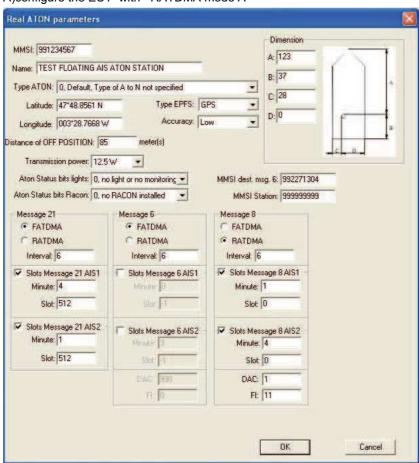


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4.9.5.TESTS RATDMA MODE A 4.9.5.1.**Configuration**

A)configure the EUT with RATDMA mode A



4.9.5.2.TestS REPORTS RATDMA mode A

A)Access method, channel reporting are conforms:	PASS
The message content is conform:	PASS
The message 21 is always transmitted:	PASS
Transmitted data is correct:	PASS



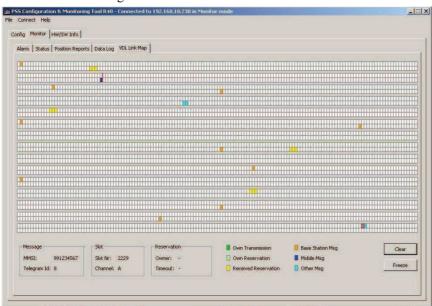
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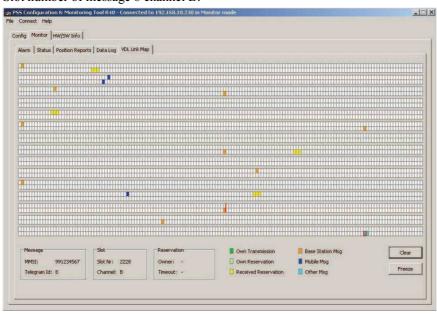
TESTS REPORT « Functional Tests according IEC62320-2 »

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Slot number of message 8 channel A:



Slot number of message 8 channel B:





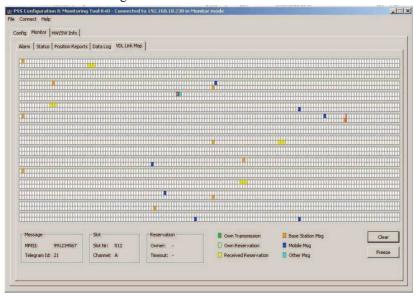
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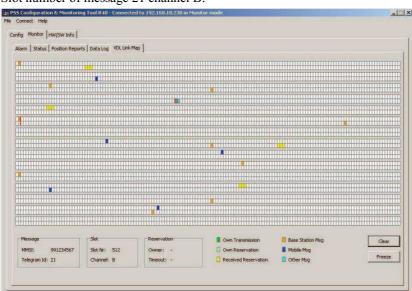
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Slot number of message 21 channel A:



Slot number of message 21 channel B:



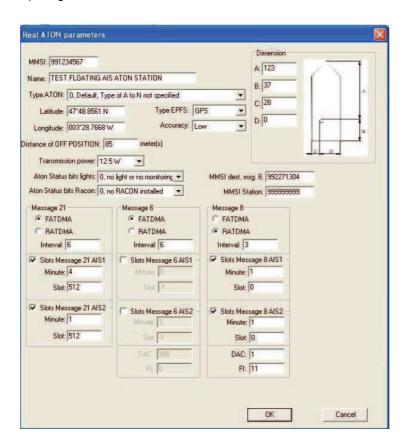
See Annexe R for the received data file:



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4.9.6.TESTS RATDMA MODE B 4.9.6.1.**Configuration**

A)configure the EUT with RATDMA mode B



4.9.6.2.TestS REPORTS RATDMA mode B

A)Access method, channel reporting are conforms:	PASS
The message content is conform:	PASS
The message 21 is always transmitted:	PASS
Transmitted data is correct:	PASS



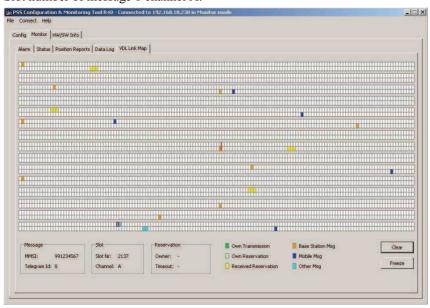
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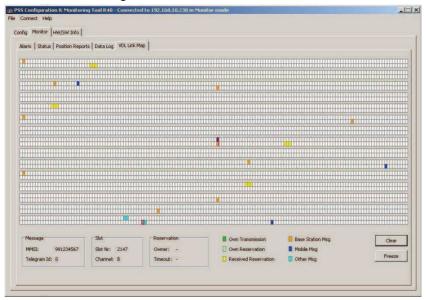
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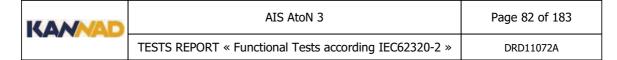
DRD11072A

Slot number of message 8 channel A:

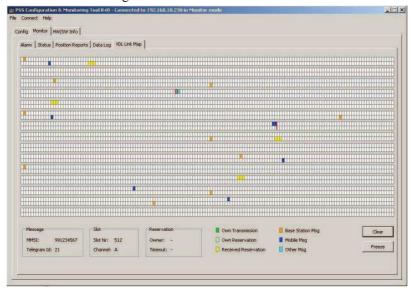


Slot number of message 8 channel B:

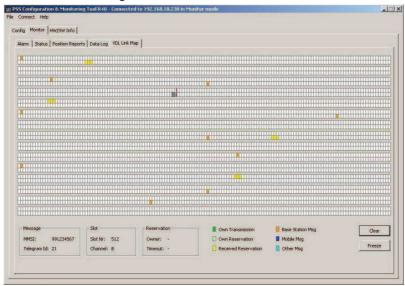




Slot number of message 21 channel A:



Slot number of message 21 channel B:



See Annexe S for the received data file:

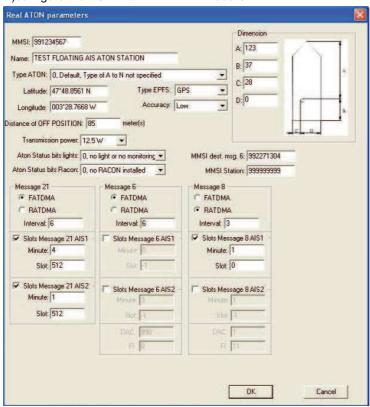


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4.9.7. TESTS RATDMA MODE C

4.9.7.1. Configuration

A)configure the EUT with RATDMA mode C



4.9.7.2.TestS REPORTS RATDMA mode C

A)Access method, channel reporting are conforms:	PASS
The message content is conform:	PASS
The message 21 is always transmitted:	PASS
Transmitted data is correct:	PASS



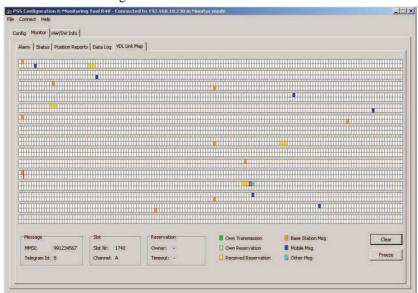
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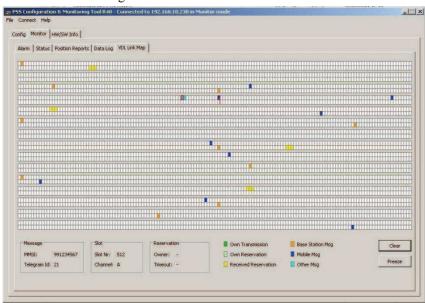
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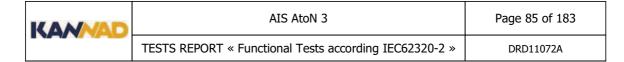
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Slot number of message 8 channel A:

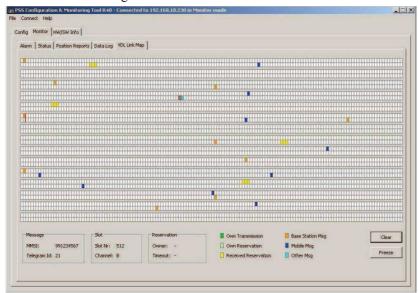


Slot number of message 21 channel A:





Slot number of message 21 channel B:



See Annexe T for the received data file:

|--|

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4.10. TESTS FOR SYNCHRONISATION ACCURACY

Chap 8.2 IEC62320-2

Remark: THE EUT uses only UTC direct synchronization

Measured time according M1371 (Fig.8) : Dealy between T0 and end of start flag $\,$ $\,$ $\!$ 7E $\!$ $\!$ = 4,16ms $\pm 0,104ms$

T(n)	Time (ms)	Description
TO	0.000	Slot start. RF power is applied
Tus	0.832	Beginning of training sequence
TI	1.000	RF power and frequency subshization time
T2	3,328	Start of transmission packet (start flag). This event can be used as a secondary synchronization source should the primary source (UTC) be lost
Ts	4.160	Slot phase synchronization marker. End of start flag, beginning of data
T3	24 128	End of transmission, assuming zero bit stuffing. No modulation is applied after termination of transmission. In case of a shorter data block, the transmission may end earlier
74	T3 + 1.000	The time when RF power should have reached zero
TS:	26.670	End of slot. Beginning of next slot



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Reading time for the transponder AIS KanAton under test:

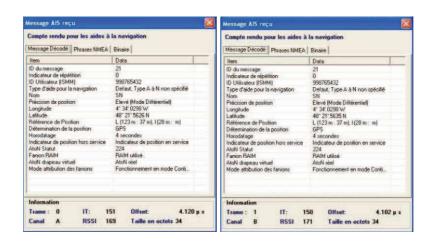
- 4,12ms
- 4,13ms
- 4,13ms
- 4,13ms
- 4,14ms
- 4,13ms
- 4,11ms
- 4,10ms

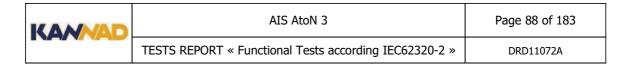
This times are conform,

Tests for synchronization accuracy:

PASS.

Example of measured times:





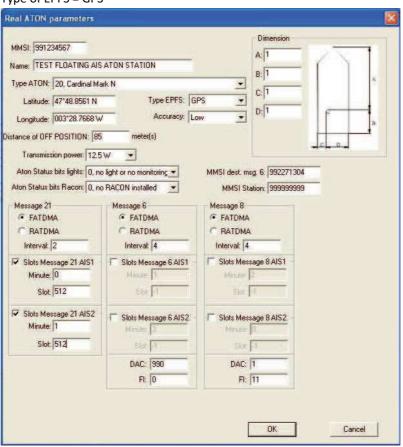
4.11. TESTS FOR EPFS, POSITION SOURCE

Chap 8.3.1 IEC62320-2

4.11.1.CONFIGURATION EPFS=GPS

Idem 5.2.1

A) Type of EPFS = GPS



4.11.2.TESTS REPORTS

A)The position and time stamp fields are valid :	PASS
RAIM flag:	PASS
Accuracy:	PASS
Position:	PASS



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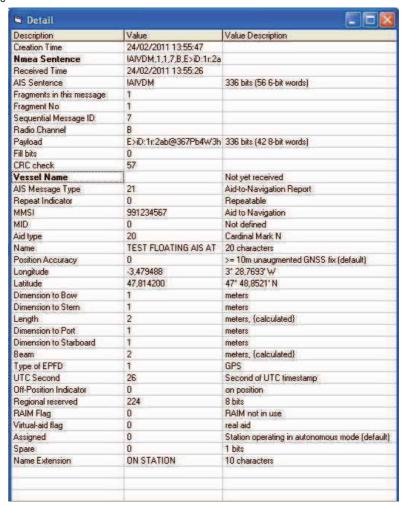
EPFS with no RAIM:

"24/02/2011 13:55:13" \$GPGBS,125513.00,,,,,,*6E

"24/02/201113:55:16" \$ GPRMC, 125516.00, A, 4748.85222, N, 00328.76939, W, 0.032, 240211, .., A*6800, A, 4748.85222, A, 4748

"24/02/201113:55:26"!AIVDO,1,1,2,B,E>iD:1r:2ab@367Pb4W3h0Tah0b?p2Ck=cPA010888e>03k`4m0E2CkP0,6

*66





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EPFS with RAIM and LOW ACCURACY:

"24/02/2011 12:43:13" \$GPRMC,114313.00,A,4748.82692,N,00328.75302,W,0.005,,240211,,,A*64

"24/02/2011 12:43:16" \$GPGBS,114316.00,11.8,13.1,26.8,,,,*76

"24/02/201112:43:26"! AIVDO, 1, 1, 4, B, E > iD:1r:2ab@367Pb4W3h0Tah0b?p2Cs = cP9h10888e > 23k`4m0E2CkP0, 6*Table = cP9h1088e > 23k`4m0E2CkP0, 6*Table = cP9h108

5A

Radio Channel	В	
Payload	E>iD:1r:2ab@367Pb4W3h	336 bits (42 8-bit words)
Fill bits	0	
CRC check	6D	
Vessel Name		Not yet received
AIS Message Type	21	Aid-to-Navigation Report
Repeat Indicator	0	Repeatable
MMSI	991234567	Aid to Navigation
MID	0	Not defined
Aid type	20	Cardinal Mark N
Name	TEST FLOATING AIS AT	20 characters
Position Accuracy	0	>= 10m unaugmented GNSS fix (default)
Longitude	-3,479475	3° 28,7685° W
Latitude	47,814100	47° 48,8461' N
Dimension to Bow	1	meters
Dimension to Stern	1	meters
Length	2	meters, {calculated}
Dimension to Port	1	meters
Dimension to Starboard	1	meters
Beam	2	meters, {calculated}
Type of EPFD	1	GPS
UTC Second	26	Second of UTC timestamp
Off-Position Indicator	0	on position
Regional reserved	224	8 bits
RAIM Flag	1	RAIM in use
Virtual-aid flag	0	real aid
Assigned	0.	Station operating in autonomous mode (default)
Spare	0	1 bits
Name Extension	ON STATION	10 characters

EPFS with RAIM and HIGH ACCURACY:

"24/02/2011 11:52:03" \$GPRMC,105203.00,A,4748.85140,N,00328.76298,W,0.036,,240211,,,,A*6A

"24/02/2011 11:52:06" \$GPGBS,105206.00,4.5,4.4,8.8,,,,*40

"24/02/201111:52:15"! AIVDO, 1, 1, 2, A, E > iD:1r:2ab@367Pb4W3h0Tah0bOp2Dg=cP?@10888`>23k`4m0E2CkP0, 6*17

Radio Channel	В	
Payload	E>iD:1r:2ab@367Pb4W3h	336 bits (42 8-bit words)
Fill bits	0	
CRC check	4D	
Vessel Name		Not yet received
AIS Message Type	21	Aid-to-Navigation Report
Repeat Indicator	0	Repeatable
MMSI	991234567	Aid to Navigation
MID	0	Not defined
Aid type	20	Cardinal Mark N
Name	TEST FLOATING AIS AT	20 characters
Position Accuracy	1	<= 10m DGPS quality fix
Longitude	-3,479368	3° 28,7621' W
Latitude	47,814220	47° 48,8530' N
Dimension to Bow	1 1	meters
Dimension to Stern	1 1	meters
Length	2	meters, {calculated}
Dimension to Port	1 1	meters
Dimension to Starboard	1	meters
Beam	2	meters, {calculated}
Type of EPFD	1 1	GPS
UTC Second	16	Second of UTC timestamp
Off-Position Indicator	0	on position
Regional reserved	224	8 bits
RAIM Flag	1 1	RAIM in use
Virtual-aid flag	0	real aid
Assigned	0	Station operating in autonomous mode (default)
Spare	0	1 bits
Name Extension	ON STATION	10 characters



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EPFS with DGPS, RAIM and LOW ACCURACY:

"24/02/2011 14:49:07" \$GPRMC,134908.00,A,4748.84417,N,00328.76542,W,0.088,,240211,,,,D*6E

"24/02/2011 14:49:10" \$GPGBS,134910.00,9.9,3.2,16.4,,,,*7D

"24/02/2011 14:49:12" \$GPRMC,134913.00,A,4748.84431,N,00328.76553,W,0.036,,240211,,,,D*65

"24/02/2011 14:49:15" \$GPGBS,134915.00,9.7,3.1,16.1,,,,*70

"24/02/201114:49:25"!AIVDO,1,1,5,B,E>iD:1r:2ab@367Pb4W3h0Tah0b?p2DJ=cP7@10888e>23k'4m0E2CkP0,6

*43

Radio Channel	В	
Payload	E>iD:1r:2ab@367Pb4W3h	336 bits (42 8-bit words)
Fill bits	Ö	
CRC check	7A	
Vessel Name		Not yet received
AIS Message Type	21	Aid-to-Navigation Report
Repeat Indicator	Ö	Repeatable
MMSI	991234567	Aid to Navigation
MID	Ö	Not defined
Aid type	20	Cardinal Mark N
Name	TEST FLOATING AIS AT	20 characters
Position Accuracy	Ö	>= 10m unaugmented GNSS fix (default)
Longitude	-3,479423	3* 28,7654' W
Latitude	47,814070	47° 48,8443' N
Dimension to Bow	1	meters
Dimension to Stern	1	meters
Length	2	meters, (calculated)
Dimension to Port	1	meters
Dimension to Starboard	1	meters
Beam	2	meters, (calculated)
Type of EPFD	1	GPS
UTC Second	26	Second of UTC timestamp
Off-Position Indicator	Ö	en position
Regional reserved	224	8 bits
RAIM Flag	1	RAIM in use
Virtual-aid flag	Ö	real aid
Assigned	Ô	Station operating in autonomous mode (default)
Spare	Ö	1 bits
Name Extension	ON STATION	10 characters

EPFS with DGPS, RAIM and HIGH ACCURACY:

"24/02/2011 13:22:15" \$GPRMC,122215.00,A,4748.85488,N,00328.77154,W,0.003,,240211,,,D*68

"24/02/2011 13:22:16" \$GPGBS,122216.00,1.0,0.8,1.9,,,,*44

"24/02/201113:22:26"!AIVDO,1,1,2,A,E>iD:1r:2ab@367Pb4W3h0Tah0bOp2CN=cPD010888e>23k`4m0E2CkP0,6*37

Radio Channel	A	
Payload	E>iD:1r:2ab@367Pb4W3h	336 bits (42 8-bit words)
Fill bits	0	
CRC check	04	
Vessel Name		Not yet received
AIS Message Type	21	Aid-to-Navigation Report
Repeat Indicator	O .	Repeatable
MMSI	991234567	Aid to Navigation
MID	0	Not defined
Aid type	20	Cardinal Mark N
Name	TEST FLOATING AIS AT	20 characters
Position Accuracy	1	<= 10m DGPS quality fix
Longitude	-3,479523	3° 28,7714' W
Latitude	47,814240	47° 48,8544' N
Dimension to Bow	1/1	meters
Dimension to Stern	1 1	meters
Length	2	meters, (calculated)
Dimension to Port	1 1	meters
Dimension to Starboard	1	meters
Beam	2	meters, (calculated)
Type of EPFD	1	GPS
UTC Second	26	Second of UTC timestamp
Off-Position Indicator	0	on position
Regional reserved	224	8 bits
RAIM Flag	1 1	RAIM in use
Virtual-aid flag	O .	real aid
Assigned	O .	Station operating in autonomous mode (default)
Spare	0	1 bits
Name Extension	ON STATION	10 characters



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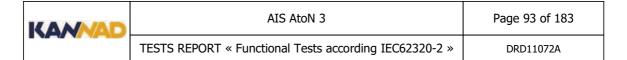
EPFS with DGPS ,no RAIM:

"24/02/2011 14:04:15" \$GPRMC,130415.00,A,4748.85430,N,00328.77201,W,0.027,,240211,,,,D*6B

"24/02/2011 14:04:17" \$GPGBS,130417.00,,,,,,*6F

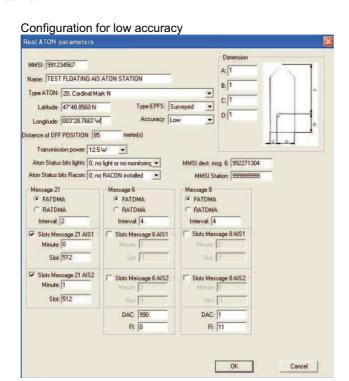
"24/02/201114:04:26"! AIVDO,1,1,5,A,E>iD:1r:2ab@367Pb4W3h0Tah0bOp2CF=cPD010888e>03k`4m0E2CkP0,6*3A

Radio Channel	A	
Payload	E>iD:1r:2ab@367Pb4W3h	336 bits (42 8-bit words)
Fill bits	0	
CRC check	QA	
Vessel Name		Not yet received
AIS Message Type	21	Aid-to-Navigation Report
Repeat Indicator	0	Repeatable
MMSI	991234567	Aid to Navigation
MID	0	Not defined
Aid type	20	Cardinal Mark N
Name	TEST FLOATING AIS AT	20 characters
Position Accuracy	1	<= 10m DGPS quality fix
Longitude	-3,479537	3° 28,7722' W
Latitude	47,814240	47° 48,8544' N
Dimension to Bow	1	meters
Dimension to Stern	1	meters
Length	2	meters, {calculated}
Dimension to Port	1	meters
Dimension to Starboard	1	meters
Beam	2	meters, {calculated}
Type of EPFD	1	GPS 5
UTC Second	26	Second of UTC timestamp
Off-Position Indicator	0	on position
Regional reserved	224	8 bits
RAIM Flag	0	RAIM not in use
Virtual-aid flag	0	real aid
Assigned	0	Station operating in autonomous mode (default)
Spare	0	1 bits
Name Extension	ON STATION	10 characters



4.11.3.CONFIGURATION EPFS=SURVEYED

Idem 5.2.1



And for High accuracy

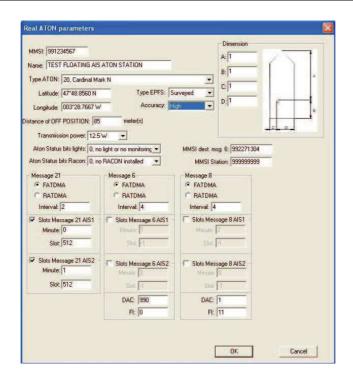


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4.11.4.TESTS REPORTS

Position same as parameters : PASS

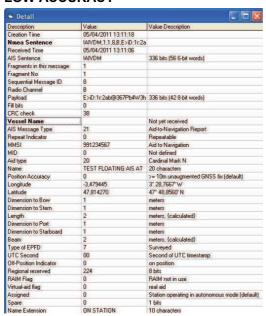
Type of EPFS = 7 : PASS

RAIM Flag = 0 PASS

PASS

Accuracy according parameter

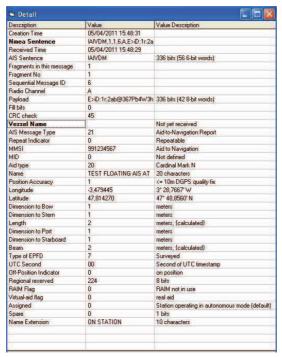
LOW ACCURACY





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HIGH ACCURACY



4.12. TESTS FOR EPFS, INVALID POSITION

Chap 8.3.2 IEC62320-2

The EUT does not transmit if the EPFS receiver does not generate poxition fixes.: PASS

4.13. TESTS FOR EPFS, OFF-POSITION MONITOR

Chap 8.3.3 IEC62320-2

4.13.1.CONFIGURATION

Idem 5.2.1

Remark: New reporting interval is not implemented when the EUT is OFF position

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4.13.2.TESTS

- a) Set the EUT EPFS antenna at its assigned position and with off-position behaviour set to maintain current broadcast schedule.
- b) After verification of the off-position indicator in Message 21, the EUT EPFS antenna shall be moved to off-position.
- c) Move the EUT EPFS antenna to be on-position.

4.13.3.TESTS REPORTS

a) message 21 has the off-position indicator field set to "0" : PASS b) message 21 has the off-position indicator field set to "1" within a time period 10mn : PASS c) message 21 has the off-position indicator field set to "0" within a time period 10mn : PASS

.



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Message 21 " EUT EPFS in assigned position"

Radio Channel	A	
Payload	E>iD:1r:2ab@367Pb4W3h	336 bits (42 8-bit words)
Fill bits	Ö	
CRC check	1A	
Vessel Name		Not yet received
AIS Message Type	21	Aid-to-Navigation Report
Repeat Indicator	Ö	Repeatable
MMSI	991234567	Aid to Navigation
MID	Ö	Not defined
Aid type	20	Cardinal Mark N
Name	TEST FLOATING AIS AT	20 characters
Position Accuracy	1	<= 10m DGPS quality fix
Longitude	-3,479380	3* 28,7628' W
Latitude	47,814240	47° 48,8544' N
Dimension to Bow	5	meters
Dimension to Stern	5	meters
Length	10	meters, (calculated)
Dimension to Port	5	meters
Dimension to Starboard	5	meters
Beam	10	meters, {calculated}
Type of EPFD	1	GPS
UTC Second	13	Second of UTC timestamp
Off-Position Indicator	Ö	on position
Regional reserved	224	8 bits
RAIM Flag	1	RAIM in use
Virtual-aid flag	Ö	real aid
Assigned	Ö	Station operating in autonomous mode (default)
Spare	Ö	1 bits
Name Extension	ON STATION	10 characters

Message 21 " EUT EPFS in off position" First 10 minutes

Creation Time	14/03/2011 11:34:25	22
Nmea Sentence	IAIVDM,1,1,0,A,E>iD:1r:2ab@367F	
Received Time	14/03/2011 11:34:14	
AIS Sentence	IAIVDM	336 bits (56 6-bit words)
Fragments in this message	1	
Fragment No	1	
Sequential Message ID	0	
Radio Channel	Д	
Payload	E>iD:1r:2ab@367Pb4W3h0Tah0b0	336 bits (42 8-bit words)
Fill bits	O.	
CRC check	4E	
Vessel Name		Not yet received
AIS Message Type	21	Aid-to-Navigation Report
Repeat Indicator	Ö	Repeatable
MMSI	991234567	Aid to Navigation
MID	O.	Not defined
Aid type	20	Cardinal Mark N
Name	TEST FLOATING AIS AT	20 characters
Position Accuracy	1	<= 10m DGPS quality fix
Longitude	-3,479478	3° 28,7687'W
Latitude	47,812870	47° 48,7724' N
Dimension to Bow	5	meters
Dimension to Stern	5	meters
Length	10	meters, {calculated}
Dimension to Port	5	meters
Dimension to Starboard	5	meters
Beam	10	meters, {calculated}
Type of EPFD	1	GPS
UTC Second	13	Second of UTC timestamp
Off-Position Indicator	O.	on position
Regional reserved	224	8 bits
RAIM Flag	1	RAIM in use
Virtual-aid flag	0	real aid
Assigned	Ö	Station operating in autonomous mode (
Spare	O.	1 bits
Name Extension	ON STATION	10 characters



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Message 21 " EUT EPFS in off position" after 10 minutes

Creation Time	14/03/2011 11:43:17	
Nmea Sentence	IAIVDM,1,1,2,B,E>iD:1r:2ab@367F	
Received Time	14/03/2011 11:43:14	
AIS Sentence	IAIVDM	336 bits (56 6-bit words)
Fragments in this message	11	
Fragment No	1	
Sequential Message ID	2	
Radio Channel	В	
Payload	E>iD:1r:2ab@367Pb4W3h0Tah0b0	336 bits (42 8-bit words)
Fill bits	0	
CRC check	3A	
Vessel Name		Not yet received
AIS Message Type	21	Aid-to-Navigation Report
Repeat Indicator	0	Repeatable
MMSI	991234567	Aid to Navigation
MID	0	Not defined
Aid type	20	Cardinal Mark N
Name	TEST FLOATING AIS AT	20 characters
Position Accuracy	1	<= 10m DGPS quality fix
Longitude	-3,479482	3* 28,7689' W
Latitude	47,812880	47° 48,7729' N
Dimension to Bow	5	meters
Dimension to Stern	5	meters
Length	10	meters, (calculated)
Dimension to Port	5	meters
Dimension to Starboard	5	meters
Beam	10	meters, (calculated)
Type of EPFD	The second second	GPS
UTC Second	13	Second of UTC timestamp
Off-Position Indicator	1	off position
Regional reserved	224	8 bits
RAIM Flag	1	RAIM in use
Virtual-aid flag	0	real aid
Assigned	0	Station operating in autonomous mode (
Spare	0	1 bits
Name Extension	ON STATION	10 characters

Message 21 " \hbox{EUT} EPFS in on $\,$ position" First 10 minutes after remove in assigned position:



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Creation Time	14/03/2011 11:58:20	
Nmea Sentence	!AIVDM,1,1,2,A,E>iD:1r:2ab@367F	
Received Time	14/03/2011 11:58:15	
AIS Sentence	IAIVDM	336 bits (56 6-bit words)
Fragments in this message	1	
Fragment No	1	
Sequential Message ID	2	
Radio Channel	A	
Payload	E>iD:1r:2ab@367Pb4W3h0Tah0b0	336 bits (42 8-bit words)
Fill bits	Ö	
CRC check	4C	
Vessel Name		Not yet received
AIS Message Type	21	Aid-to-Navigation Report
Repeat Indicator	Ö	Repeatable
MMSI	991234567	Aid to Navigation
MID	Ö	Not defined
Aid type	20	Cardinal Mark N
Name	TEST FLOATING AIS AT	20 characters
Position Accuracy	19	<= 10m DGPS quality fix
Longitude	-3,479365	3° 28,7619' W
Latitude	47,814300	47° 48,8583' N
Dimension to Bow	5	meters
Dimension to Stern	5	meters
Length	10	meters, {calculated}
Dimension to Port	5	meters
Dimension to Starboard	5	meters
Beam	10	meters, {calculated}
Type of EPFD	1	GPS
UTC Second	13	Second of UTC timestamp
Off-Position Indicator	1	off position
Regional reserved	224	8 bits
RAIM Flag	1	RAIM in use
Virtual-aid flag	Ö	real aid
Assigned	Ö	Station operating in autonomous mode (
Spare	O	1 bits
Name Extension	ON STATION	10 characters

Message 21 "EUT EPFS in on position" after 10 minutes after remove in assigned position:

Creation Time	14/03/2011 12:07:34	
Nmea Sentence	!AIVDM_1_1,9,8,E>iD:1r:2ab@367F	
Received Time	14/03/2011 12:07:14	
AIS Sentence	IAIVDM	336 bits (56 6-bit words)
Fragments in this message	1	3% 00
Fragment No	1	
Sequential Message ID	9	
Radio Channel	В	
Payload	E>iD:1r:2ab@367Pb4W3h0Tah0b0	336 bits (42 8-bit words)
Fill bits	0	200
CRC check	4E	
Vessel Name		Not yet received
AIS Message Type	21	Aid-to-Navigation Report
Repeat Indicator	0	Repeatable
MMSI	991234567	Aid to Navigation
MID	0	Not defined
Aid type	20	Cardinal Mark N
Name	TEST FLOATING AIS AT	20 characters
Position Accuracy	1	<= 10m DGPS quality fix
Longitude	-3,479400	3° 28,7640' W
Latitude	47,814290	47° 48,8574' N
Dimension to Bow	5	meters
Dimension to Stern	5	meters
Length	10	meters; {calculated}
Dimension to Port	5	meters
Dimension to Starboard	5	meters
Beam	10	meters; {calculated}
Type of EPFD	1	GPS
UTC Second	13	Second of UTC timestamp
Off-Position Indicator	0	on position
Regional reserved	224	8 bits
RAIM Flag	1	RAIM in use
Virtual-aid flag	0	real aid
Assigned	0	Station operating in autonomous mode (
Spare	0	1 bits
Name Extension	ON STATION	10 characters

Additional functionality:

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When the flag "Off position indicator" is 0: static relay is OPEN: PASS When the flag "Off position indicator" is 1: static relay is CLOSE: PASS



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4.14. ADDITIONAL FUNCTIONALITY, VERSION INFORMATION

Chap 8.5.5 IEC62320-2

4.14.1.METHOD



4.14.2.TESTS REPORTS



Verify that the EUT provides with the requested version information.: PASS

4.15. TEST FOR BIIT

Chap 8.6 IEC62320-2

4.15.1.CONFIGURATION

Idem 5.2.1

4.15.2.TESTS REPORTS

A) Disconnect Antenna
The EUT shall cease transmissions:

PASS

B) Apply Fault to the channel 1 receiver

PASS

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RATDMA shall cease on channel 1

C) Apply Fault to the channel 2 receiver RATDMA shall cease on channel 2

PASS

D) Disable the augmentation system: The EUT shall continue to operate

PASS

\$AITXT,01,01,03,AIS: Rx Channel 1 malfunction* \$AITXT,01,01,04,AIS: Rx Channel 2 malfunction*

\$AITXT,01,01,01,AIS: Tx malfunction*

\$AITXT,01,01,02,AIS: Antenna VSWR exceeds limit*";

4.16. TRANSMITTER SHUTDOWN PROCEDURE

Chap 8.7 IEC62320-2

See Manual