BEACON TEST REPORT

Survey Date and Place: Dec 24, 2024, Belgrade

It is hereby certified that representative of the company Smart Radio Tech, Alex Musson, performed testing of **EPIRB-AIS** and defined the following:

Vessel details

Name of Ship	Flag	Port of Registry	Radio call sign	MMSI code	IMO Number
Queen Mary	Panama	Panama	CA1234	323555555	1234567

EPIRB details

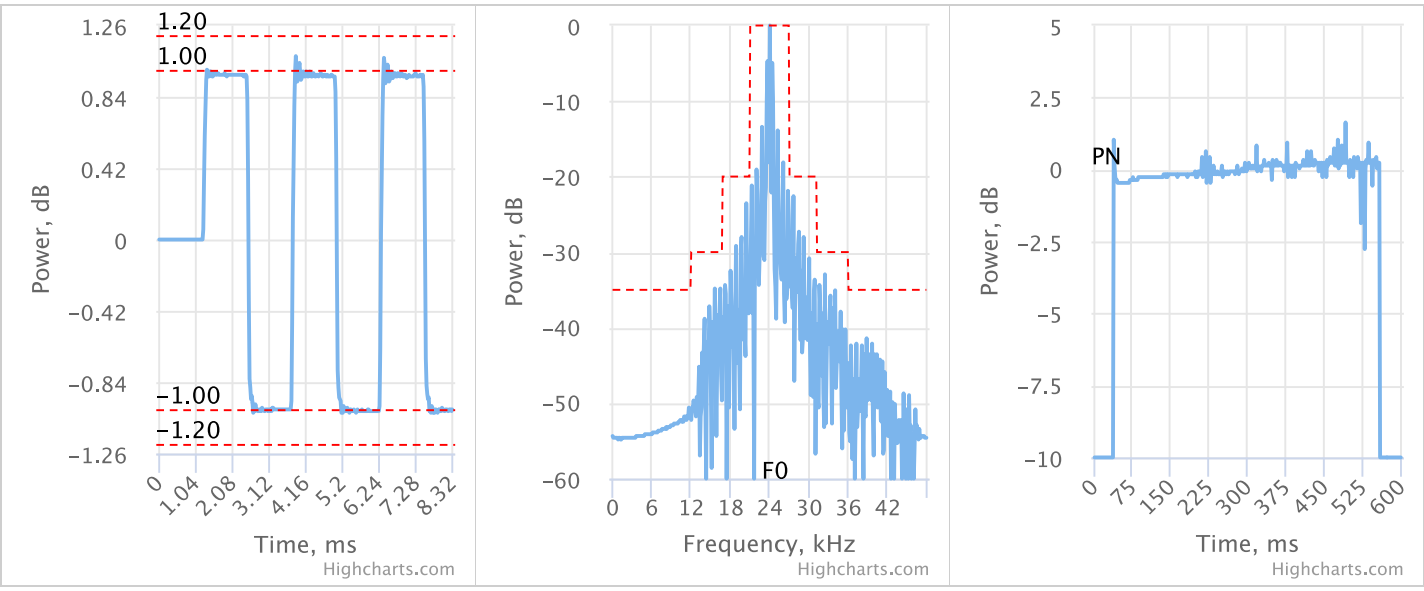
Type	Model	Serial Number	Date of manufacture	EPIRB Battery Expiry Date
EPIRB-AIS	Samyung EB-10	1234567	2025	03.2030

Transmitter parameters

Channel	406 MHz
Frequency, MHz	406.037152
Power, dBm / mW	-13.38 / 0.05
TTT, ms	520.87
UNC, ms	160.2
Phase(+), Deg	52
Phase(-), Deg	52

Channel	Channel A Freq, Hz	Channel A Power, dbm	Channel B Freq, Hz	Channel B Power, dbm	Message Order
AIS Signal	161.975138 MHz	-15.58 dBm / 0.03 mW	162.025134 MHz	-13.2 dBm / 0.05 mW	Ok

Graphics



Hydrostatic release unit

HRU Model & Type	HRU Expiry Date
HRU-20	02.2031

Cospas-Sarsat message content

Full Hex	FFFED0D434082082082688846C6FE0FF0146
MMSI/ID	323555555

15 Hex ID	A868104104104D1
Message format	long format
Protocol	User
Country code	Cuba (323)
User type	Maritime User
Maritime MMSI (6 digits)	555555
Specific Beacon	0
Spare	00
Aux radio device	121.5 MHz
Encoded BCH 1	0211B1
Calculated BCH 1	0211B1
Encoded Position Data Source	Encoded Position Data Source From Internal Navigation Device
Latitude Sign	default
Latitude (degrees)	default
Latitude (minutes)	default
Longitude Sign	default
Longitude (degrees)	default
Longitude (minutes)	default
Encoded BCH 2	146
Calculated BCH 2	146
Message ID	14
Repeat indicator	No repeat
User ID	974285013
Application data	EPIRB TEST
Message ID	14
Repeat indicator	No repeat
User ID	974285013
Application data	T0004000000FFBFF\.U0

Positional, Static and Voyage data extracted from AIS

User ID	974285013
Application data	T0004000000FFBFF\.U0
Repeat indicator	No repeat

Alex Musson, Smart Radio Tech Nov 13, 2025

Test tool: GMDSS Tester MRTS-7 Pro, S/N 2

EPIRB Annual test report

Issued in accordance with IMO MSC.1/Circ.1040/Rev.2 as required by SOLAS IV/Reg.15.9

Surveyor Company	Smart Radio Tech
Vessel's name	Queen Mary
MMSI Number	323555555
Call sign	CA1234
Flag of registry	Panama

EPIRB Manufacturer, serial number	Samyung EB-10, 1234567
EPIRB Bracket type	Float-Free
Assigned EPIRBs ID	323555555
HEX ID	A868104104104D1
AIS User ID	974285013
Battery expiry date	03.2030
HRU Expiry date	HRU-20, 02.2031
SBM Due date	02.2031
Next Test Due	12.2025

EPIRB Annual Inspection Checklist

No.	Inspection Item	Result
1	Checking position and mounting of the bracket to ensure unimpeded float-free operation	✓ PASS
2	Carrying out visual inspection of the EPIRB and the bracket for defects, any signs of damage, degradation or cracks to the casing, or of water ingress	✗ FAIL
3	Carrying out the beacon self-test routine, including the GNSS self-test, if applicable	✓ PASS
4	Checking that the EPIRB identification (15 Hex ID for first-generation beacons and 23 Hex ID for second-generation beacons and other required information, including, if applicable, the AIS identity (User ID)) is clearly marked on the outside of the equipment	✓ PASS
5	Decoding the EPIRB hexadecimal identification digits (15 Hex ID for first-generation beacons and 23 Hex ID for second-generation beacons) and other information from the transmitted signal, including, if applicable, the AIS identity (User ID), checking that the decoded information (Hex ID or MMSI/call sign data, as required by the Administration) is identical to the identification marked on the beacon	✓ PASS
6	Verifying that the MMSI number or radio call sign, if encoded in the beacon, corresponds with that assigned to the ship	✓ PASS
7	Verifying registration in an appropriate beacon registration database through documentation or through the point of contact associated with that country code	✓ PASS
8	Checking the battery expiry date	✓ PASS
9	Checking the hydrostatic release and its expiry date, as appropriate	✓ PASS
10	Verifying the emission in the 406 MHz band using the self-test mode or an appropriate device to avoid transmission of a distress call to the satellites	✓ PASS
11	If possible, verifying emission on the 121.5 MHz frequency using the self-test mode or an appropriate device to avoid activating the SAR system	✓ PASS
12	Verifying emission on the appropriate AIS frequencies, if applicable, using the self-test mode or an appropriate device to avoid creating false alerts	✓ PASS
13	Verifying that the EPIRB has been maintained by an approved shore-based maintenance provider at intervals required by the Administration, in accordance with the most recent revision of MSC/Circ.1039	✓ PASS
14	After the test, remounting the EPIRB in its bracket, checking that no transmission has been started	✓ PASS
15	Verifying the presence of a firmly attached lanyard in good condition; the lanyard should be neatly stowed, and should not be tied to the vessel or the mounting bracket	✓ PASS
16	Checking the presence of beacon operating instructions manual	✓ PASS

No.	Inspection Item	Result
17	Checking the presence of pictorial instructions for manual operation visible at the location of the beacon	✓ PASS

Tested by: Alex Musson **Company:** Smart Radio Tech **Date tested:** Dec 24, 2024 **Place and country of survey:** Belgrade	**Signature and stamp:**

The equipment has been tested according to MSC.1/Circ. 1040 Rev-2 and SOLAS reg. IV/15.9.
Test tool: GMDSS Tester MRTS-7M, S/N 20140, Calibrated till 07/2027