



U.S. Department
of Transportation
**Federal Aviation
Administration**

Houston Flight Standards District Office
12650 N. Featherwood Drive, Suite 230
Houston, Texas 77034-4411
281-929-7000, Fax: 281-929-7059

March 6, 2018

SHORE LABS CORP
76 LYNTHWAITE FARM LANE
WILMINGTON, DE 19803-1545

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Dear SHORE LABS CORP:

Federal Aviation Administration (FAA) records indicate that you are the registered owner of: **N7DW, a DHC-1.**

This correspondence letter is to notify you that the FAA has monitored flights by this aircraft in which the installed ADS-B system failed to comply with equipment performance requirements specified in 14 CFR §91.227.

Enclosed is a copy of an ADS-B Performance Report associated with operation of this aircraft containing details of the subject equipment performance issues which can be found at the following website: <https://adsbperformance.faa.gov/PAPRRRequest.aspx>

To assist you with understanding and interpreting the data enclosed in this Performance Report, please visit: <https://adsbperformance.faa.gov/PAPRUsersGuide.pdf>. This document is the latest revision of the "how to" guide on evaluating these performance reports.

Following receipt of this notification please contact me at your earliest convenience by email at michael.a.smith@faa.gov or phone at 832-291-3029 so that I can provide you additional details associated with this notification.

Sincerely,



Michael A. Smith
ADS-B Focus Team



U.S. Department of Transportation Federal Aviation Administration ADS-B Performance Monitor

Public ADS-B Performance Report

ICAO: A9503C (52250074)

Tail Number: N7DW

Last Flight Id: N7DW

Period: 02-27-2018 16:58:20 to 02-27-2018 17:38:54

Operation Analysis Overview

	Analysis
Airborne 1090	<input checked="" type="checkbox"/>
Surface 1090	<input type="checkbox"/>
Surface RWY/Taxi 1090	<input type="checkbox"/>
Airborne UAT	<input type="checkbox"/>
Surface UAT	<input type="checkbox"/>
Surface RWY/Taxi UAT	<input type="checkbox"/>

Prepared By

Surveillance and Broadcast Services (SBS) Program
ADS-B Performance Monitor

March 04, 2018

Note: Items high-lighted in red within this report indicate the ADS-B Out system installed on this aircraft failed to meet the corresponding performance requirement as specified in § 91.227.

For more information on this report, reference the [User's Guide](#).

Operation Summary

Operation Id:	54132883	Start Time:	02-27-2018 16:58:20		
ICAO Reported:	A9503C (52250074)	End Time:	02-27-2018 17:38:54		
ICAO Assigned:	A9503C (52250074)	Duration:	00:40:34	Mod:	00:26:07
Tail Number:	N7DW	Reports:	13882	Best Msg:	1498
Country:	United States - Civil	Stationary:	No	Baro Alt (ft):	-300 - 2900
		Rule:	00:11:10		
		TIS-B Client:	98.3%		

Detection: ☒ Airborne ☐ Surface

Link Version:	2	Out Capability:	1090	In Capability:	1090
Last Flight Id:	N7DW				
Operator:					

Airborne 1090 Analysis Summary

Start Time: 02-27-2018 16:58:20	End Time: 02-27-2018 17:38:54	Total Reports: 13882
Duration(s): 00:40:34	Mod: 00:26:07	Rule: 00:11:10
		Processed Reports: 1465

Link Version: 2	Out Capability: 1090	In Capability: 1090
Emitter Category: 1 - Light (<15,500lbs)	Antenna(s): 1 - Single	
Last Flight Id: N7DW		

Exceptions:

NIC	NACp	NACv	SIL	SDA
Yes	Yes	No	No	No

Missing Elements

Category	NACp	NACv	Vel	Flight Id	Mode 3A	Emit Cat	Baro Alt	Geo Alt
% Fail	0.00%	0.00%	0.07%	0.00%	0.00%	0.00%	0.00%	0.07%
Max dT	00:00:00	00:00:00	00:00:01	00:00:00	00:00:00	00:00:00	00:00:00	00:00:01
MCF	0	0	1	0	0	0	0	1

Integrity & Accuracy

Category	NIC	NACp	NACv	SIL	SDA
% Fail	11.06%	2.46%	0.00%	0.27%	0.00%
Max dT	00:00:57	00:00:12	00:00:00	00:00:01	00:00:00
MCF	57	10	0	1	0

Category	NIC	NACp	NACv	SIL	SDA
Avg	8.1	9.5	2.0	3.0	2.0
Min	0	0	1	0	2
Max	9	10	2	3	2

Kinematics

	Velocity	Position Δ
% Fail	0.00%	0.00%
MCF	0	0

Baro Alt	Baro Alt Δ	Geo Alt	Geo Alt Δ
0.00%	0.00%	0.00%	0.27%
0	0	0	1

Other Checks

	Emitter Cat	Mode 3A
% Fail	0.00%	0.00%
Max dT	00:00:00	00:00:00
MCF	0	0

	Flight ID	Mismatch	Non-US	No "N"	Only "N"	Partial	Spaces	All Spaces	Illegal Char	Unavail Char
% Fail	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Max dT	00:00:00	00:00:00	00:00:00	00:00:00	00:00:00	00:00:00	00:00:00	00:00:00	00:00:00	00:00:00
MCF	0	0	0	0	0	0	0	0	0	0

	Air on Ground
% Fail	3.62%
Max dT	00:00:21
MCF	9

Notes: MCF - Maximum Consecutive Failures