



## **Compliance Testing, LLC**

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

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### **Test Report**

**Prepared for: EMS Technologies Honeywell Satcom**

**Model: HSD-440**

**Description: Aeronautical Satcom Transceiver**

**Serial Number: N/A**

**FCC ID: K6KHSD-440**

**To**

**FCC Part 1.1310**

**Date of Issue: July 12, 2016**

**On the behalf of the applicant:**

**EMS Technologies Honeywell Satcom  
400 Maple Grove Rd  
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**Attention of:**

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Project No: p1640030**

**Alex Macon  
Project Test Engineer**

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### Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	June 23, 2016	Alex Macon	Original Document
2.0	July 11, 2016	Alex Macon	Updated Minimum safe distance



## ILAC / A2LA

Compliance Testing, LLC, has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué dated January 2009)

The tests results contained within this test report all fall within our scope of accreditation, unless below

Please refer to <http://www.compliancetesting.com/labscope.html> for current scope of accreditation.

Testing Certificate Number: **2152.01**



FCC Site Reg. #349717

IC Site Reg. #2044A-2

**Non-accredited tests contained in this report:**

N/A

### **EUT Description**

**Model:** HSD-440

**Description:** Aeronautical Satcom Transceiver

**Firmware:** N/A

**Software:** N/A

**Serial Number:** N/A



### Minimum Safe Distance Evaluation

This is a mobile device used in Uncontrolled Exposure environment.

**Limits Uncontrolled Exposure  
47 CFR 1.1310  
Table 1, (B)**

0.3-1.234 MHz:	Limit [mW/cm <sup>2</sup> ] = 100
1.34-30 MHz:	Limit [mW/cm <sup>2</sup> ] = (180/f <sup>2</sup> )
30-300 MHz:	Limit [mW/cm <sup>2</sup> ] = 0.2
300-1500 MHz:	Limit [mW/cm <sup>2</sup> ] = f/1500
1500-100,000 MHz	Limit [mW/cm <sup>2</sup> ] = 1.0

### Test Data

Test Frequency, MHz	1643.5
Power, Conducted, mW (P)	51100
Antenna Gain Isotropic	17 dBi
Antenna Gain Numeric (G)	50.12
Antenna Type	Patch
Limit (L)	1.0

$R = \sqrt{(PG/4\pi L)}$			
Distance (R) cm	Power mW (P)	Numeric Gain (G)	Limit (L)
451.5659237	51100	50.12	1

**The minimum safe distance is 451.57 cm**

END OF TEST REPORT