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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 Ottawa, Ontario K2V 1B8

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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

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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 $[mW/cm^2] = (180/f^2)$
30-300 MHz:	Limit $[mW/cm^2] = 0.2$
300-1500 MHz:	Limit $[mW/cm^2] = f/1500$
1500-100,000 MHz	Limit $[mW/cm^2] = 1.0$

## **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=√(PG/4πL)			
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**