



## Test Report

Prepared for: ALD Systems, Inc.

Model: RF506B-900

Description: Modular Wireless Signal Link and Data Transceiver

To

FCC Part 1.1310

Date of Issue: October 21, 2013

On the behalf of the applicant:

ALD Systems, Inc.  
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Attention of:

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### Test Report Revision History

<b>Revision</b>	<b>Date</b>	<b>Revised By</b>	<b>Reason for Revision</b>
1.0	June 27, 2013	Greg Corbin	Original Document
2.0	August 7, 2013	Greg Corbin	Revised the user environment from controlled to uncontrolled on page 4.
3.0	October 21, 2013	Greg Corbin	Revised device classification from mobile to portable and updated the calculations on page 4.



### ILAC / A2LA

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

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Testing Certificate Number: **2152.01**



**FCC OATS Reg, #933597**

**IC Reg. #2044A-1**

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

**N/A**



## Description

The EUT is a DTS transmitter module operating in the 902 – 928 frequency bands. The device can operate on any one of 10 channels from 906 – 924 MHz.

The manufacturer provided test software that allowed the EUT to be tuned to the low, middle and high channel with the power set to the maximum level.

The test software was controlled using a hyper terminal and communicated with the module via a USB to serial adapter.

The module was connected to the USB adapter with a 20 cm ribbon cable as part of the modular certification requirements.

*This is a portable device used in **Uncontrolled** Exposure environment.*

*This device meets the requirements for SAR test exclusion at a distance of <5mm for a portable device with a 100% duty cycle per KDB 447498 D01 General RF Exposure Guidance v05r0.*

*This device meets the SAR test exclusion requirements for a portable device at a distance of <5mm with a 100% duty cycle per section 4.3.1 of KDB 447498 D01 General RF Exposure Guidance v05r0.*

Test Frequencies, MHz	906, 914, 924
Power, Conducted, mW (P)	11
Antenna Gain Isotropic	0 dBi
Antenna Gain Numeric (G)	1
Antenna Type	3.0 inch piece of wire, mfr states that it is a 1/4 wavelength at 914 MHz
Distance (R)	<5 mm

SAR Test Exclusion Calculations	Formula = Calculation = Value = SAR Test Exclusion Limit =	(Max power,mw/5 mm)*sqrt(freq,GHz) (11 mw / 5mm) * sqrt (.906 GHz) 2.09 3.0 for 1-g SAR and 7.5 for 10-g extremity SAR
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The SAR Test Exclusion Calculation of 2.09 is below the SAR Test Exclusion Limit of 3.0 for 1-g SAR and 7.5 for 10-g extremity SAR.

**The SAR measurement is not necessary.**

END OF TEST REPORT