



a Laird Business

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ADDENDUM #2
EDIT of ENGINEERING TEST REPORT #: TR316062D
LSR JOB #: C-2411

Compliance Testing of:
RM186-SM

Test Date(s):
3/28/16 – 4/22/16

Prepared For:
Attention: N. Zach Hogya
Laird Technologies
W66 N220 Commerce Court
Cedarburg, Wisconsin 53012

This Report is issued under the Authority of:
Shane Dock, EMC Engineer

Signature: 

Date: 5/11/16

Report Reviewed by:
Adam Alger, Quality Systems Engineer – Test Services

Signature: 

Date: 5/11/16

Tested by:
Shane Dock, EMC Engineer

Signature: 

Date: 5/11/16

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LS Research, LLC In Review

As an EMC Testing Laboratory, our Accreditation and Assessments are recognized through the following:



A2LA – American Association for Laboratory Accreditation

Accreditation based on ISO/IEC 17025: 2005
with Electrical (EMC) Scope of Accreditation
A2LA Certificate Number: **1255.01**



Federal Communications Commission (FCC) – USA

Listing of 3 Meter Semi-Anechoic Chamber based on Title 47 CFR – Part 2.948
FCC Registration Number: **90756**



On file, 3 Meter Semi-Anechoic Chamber based on RSS-GEN – Issue 4
File Number: IC 3088-2
On file, 3 Meter Semi-Anechoic Chamber based on RSS-GEN – Issue 4
File Number: IC 3088-3



Prepared For: Laird Technologies	Name: RM186-SM
Report: TR316062D	Model: TRM-186-SM
LSR: C-2411	

1. Product and General Information

Manufacturer Name:	Laird Technologies
Address:	W66 N220 Commerce Court Cedarburg, Wisconsin 53012
Contact Person:	N. Zach Hogya
Product Name:	RM186-SM
Model Number:	RM186-SM

2. Addendum Justification

An Addendum to Test Report 314379A was necessary due to an error in Section C1.15 on page 41. As a result Section 3 of this Addendum shall take the place of page 41 in both Test Report 316062D.

3. Correction

C.1.15 – Receiver Blocking

Manufacturer	Laird Technologies
Date	4/22/16
Operator	Shane Dock
Temp. / R.H.	20 - 25° C / 30-60% R.H.
Harmonized Standard	ETSI EN 300 220-2 v2.4.1
Technical characteristics and Test Methods	ETSI EN 300 220-1 v2.4.1
Harmonized Requirement	4.3.5
Test Procedure Section	8.4.2
Additional Notes	

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Test Setup

The unit was setup to communicate with a gateway device in order to allow the device to function as intended. The signal being sent to the EUT from the gateway was operating between 867.1 to 868.5,MHz and was outputting about -2.6 dBm. The gateway was used with a series of attenuators to set the device to act as a signal generator set for -98 dBm. This was done because the EUT receiver sensitivity actually surpassed the value given in Section 8.1.4, so the value in Section 8.1.4 was used in place of the actual receiver sensitivity. This is derived from the equation for maximum usable sensitivity given in Section 8.1.4 from EN 300 220-1:

$S = 10 \log (BW/16) - 107 \text{ dBm}$, where $BW = 125$.

This signal was sent into a splitter with the blocking signal to run the test. The blocking signal was set with an offset of +/-2 MHz and 10 MHz, and each of these offsets was applied from the opposite band end (The +10 MHz offset was 877.1 MHz and the -10 MHz offset became 858.5 MHz).

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