

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

## JOHN DEERE ELECTRONIC SOLUTIONS

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## ELECTRICAL (EMC)

Valid to: June 30, 2018

Certificate Number: 3010.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following electromagnetic compatibility (EMC) tests:

**Test Technology:****Test Method(s):**

Emissions (Radiated)

IEC CISPR 25:2002, Section 6.4 (*Under 30 MHz*);  
IEC CISPR 25:2002, Section 6.4 (*30 MHz to 1 GHz*);  
IEC CISPR 25:2008, Section 6.4 (*Under 30 MHz*);  
IEC CISPR 25:2008, Section 6.4 (*30MHz to 1 GHz*);  
IEC CISPR 25:2008, Section 6.4 (*Above 1 GHz*);  
ISO 13766, Sections 5.6 and 5.7;  
European Commission Directive 2004/104/EC;  
ISO 14982, Sections 6.4 and 6.5;  
JDQ 53.3(2005), Section 8.4;  
JDQ 53.3 (2011), Section 8.4;  
JDQ 203D (2013, 2015);  
United Nations E/ECE/324  
E/ECE/TRANS/505  
Addendum 9/Rev.3 Regulation No. 10  
Section 6.5 and 6.6

Emissions (Conducted)

IEC CISPR 25:2002, Sections 6.2 and 6.3;  
IEC CISPR 25:2008, Sections 6.2 and 6.3;  
JDQ 53.3 (2005), Section 8.4;  
JDQ 53.3 (2011), Section 8.4;  
JDQ 203C (2013, 2015)

Susceptibility (Radiated)

SAE J1113-21 (*30 MHz to 1 GHz*);  
ISO 14982, Section 6.6;  
ISO 11452-2; ISO 13766, Section 5.8;  
European Commission Directive 2004/104/EC Section 4.1;  
JDQ 53.3 (2005), Section 8.2;  
JDQ 53.3 (2011), Section 8.2;  
JDQ 203A; JDQ 203F (2013, 2015)

**Test Technology:****Test Method(s):**

Susceptibility (Radiated)  
(cont'd)

United Nations E/ECE/324  
E/ECE/TRANS/505  
Addendum 9/Rev.3 Regulation No. 10  
Section 6.7

Susceptibility (Conducted)

SAE J1113-4 BCI; ISO 14982, Section 6.6;  
ISO 11452-4 BCI; ISO 13766, Section 5.8;  
European Commission Directive 2004/104/EC;  
JDQ 53.3 (2005), Section 8.2;  
JDQ 53.3 (2011), Section 8.2;  
JDQ 203A (2013, 2015);  
United Nations E/ECE/324  
E/ECE/TRANS/505  
Addendum 9/Rev.3 Regulation No. 10  
Section 6.7

Conducted Susceptibility

ISO 7637-2 (Electrical Transient from Conduction);  
ISO 7637-3 (Electrical Transient from Coupling), Section 3.5.1  
(CCC method) and section 3.5.3 (DCC method);  
ISO 7637-1, 2 (Electrical Transient from Conduction);  
JDQ 53.3 (2005), Sections 8.5, 9.2.1, 9.2.2, 9.2.3, 9.2.4,  
9.2.5 Level 3, 9.2.6, 9.2.7, 9.2.8, 9.2.9 and 9.2.10;  
SAE J1455, Section 4.13.2;  
JDQ 53.3 (2011), Sections 8.5, 9.2.1, 9.2.2, 9.2.3, 9.2.4,  
9.2.5 Level 3, 9.2.6, 9.2.7, 9.2.8, 9.2.9 and 9.2.10;  
JDQ 202H, JDQ 202J, JDQ 202K, JDQ 202L, JDQ 202M, JDQ  
202N, JDQ 202P, JDQ 202Q, JDQ 202R, JDQ 202S, JDQ 202T,  
JDQ 202U, JDQ 202V, JDQ 202Y, JDQ 202Z (2013, 2015),  
JDQ 202AA (2015)

Electrostatic Discharge

JDQ 53.3 (2005), Section 9.1.5;  
SAE J1455, Section 4.13.2.2.3;  
JDQ 53.3 (2011), Section 9.1.5;  
JDQ 202E, JDQ 202F (2013, 2015)

Steady State Electricals

JDQ 53.3 (2005), Sections 9.1.1, 9.1.2, 9.1.3 and 9.1.4;  
SAE J1455, Sections 4.13.1.1 and 4.13.1.2;  
JDQ 53.3 (2011), Sections 9.1.1, 9.1.2, 9.1.3 and 9.1.4;  
JDQ 202A, JDQ 202B, JDQ 202C, JDQ 202D,  
JDQ 202W (2013, 2015)

On the following products or types of products: Electronic Controllers (Engines, Transmissions, Vehicle Electronics), Electronic Displays (LCD Display Modules), Electronic Communication Gateways for Vehicles

<sup>1</sup> When the date, revision or edition of a test method standard is not identified on the scope of accreditation, the laboratory is required to be using the current version within one year of the date of publication, per part C., Section 1 of A2LA R101 - *General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.



## *Accredited Laboratory*

A2LA has accredited

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*Fargo, ND*

for technical competence in the field of

## **Electrical Testing**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).



Presented this 25<sup>th</sup> day of July 2016.

A handwritten signature in blue ink, reading "Jim C. Bunt".

Senior Director of Quality and Communications  
For the Accreditation Council  
Certificate Number 3010.01  
Valid to June 30, 2018

*For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.*