


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <b>2360</b> Accredited to <b>ISO/IEC 17025:2005</b>	<b>RN Electronics Ltd</b>	
	<b>Issue No: 033</b>	<b>Issue date: 19 January 2018</b>
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<b>Testing performed at the above address only</b>		

### Flexible Scope

The Flexible Scope applies to the laboratory's accreditation to ISO/IEC17025:2005 for testing activities in accordance with the standards listed in the schedule for EMC and Radio. This may also include tests on the same or similar product types against standards, or customer-specified methods, that are not specifically listed in this Schedule, providing that:

1. The method or standard does not introduce new principles of measurement;
2. The method or standard does not require measurements to be made outside the parametric boundaries defined in this Schedule.

Information about flexible scopes of accreditation is available in UKAS document LAB39



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>Computers and Peripherals Domestic Appliances: Electrical Electrical/Electronic Products Electronic Products: Digital Electro-Mechanical Devices</p> <p>ISM Equipment IT Equipment Laboratory Equipment Medical/Dental Equipment Office Equipment: Electrical Security Equipment Telecommunications Equipment Welding Equipment</p>	<p><b>1 CIVIL EMC TESTS</b></p> <p>1.1.1 Conducted Emissions 9 kHz to 30 MHz</p>	<p>CISPR 22:2005 + A1 and A2 (Edition 5.2) EN 55016-2-1:2004 + A1:2005 EN 55016-2-1:2014 EN 55016-2-1:2009 + A1:2011 EN 55011:1998 + A1:1999, A2:2002 EN 55011:2007 + A2:2007 EN 55011-2009+ A1:2010 EN 55014-1:2000 + A1:2001+ A2:2002 EN 55014-1:2006 + A1:2009 EN 55014-1:2006 + A1:2009 &amp; A2 2011 CISPR 22:1997 EN 55022:1998+A1:2000 and A2:2003 EN 55022:2006+ A1:2007 EN 55022:2010 EN 55032:2012 EN 55032:2015 ANSI C63.4:2003 ANSI C63.4:2009 ANSI C63.4:2014 FCC CFR 47: Part 15B FCC CFR 47: Part 18 FCC/OST MP5:1986 ICES-003:2012 ICES-003:2016</p>



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As listed on Page 1	<b>1 CIVIL EMC TESTS</b> (cont'd)	
	1.1.2 Signal Line Conducted Emissions 150 kHz to 30 MHz  Signal lines/DC in and out	EN 55022:1998 including Amendment A1:2000 + A2:2003 (limited to where standard ISN's and CDN's can be used) EN 55022:2006 + A1:2007 EN 55022:2010 EN 55032:2012 EN 55032:2015
	1.1.3 Radiated Emissions 9 kHz to 40 GHz	EN 55016-2-3:2004 + A1:2005 & A2:2005 EN 55016-2-3:2006 EN 55016-2-3:2010 + A1:2010 + A2:2014 EN 55011:1998 + A1:1999 and A2:2002 EN 55011:2007 + A2:2007 EN 55011-2009 + A1:2010 EN 55014-1:2006 + A1:2009 & A2 2011 EN 55022:1998 + A1:2000 and A2:2003 EN 55022:2006 + A1:2007 EN 55022:2010 EN 55032:2012 EN 55032:2015 ANSI C63.4:2003 ANSI C63.4:2009 ANSI C63.4:2014 FCC CFR 47: Part 15B FCC CFR 47: Part 18 FCC/OST MP5:1986 ICES-003:2012 ICES-003:2016
1.1.4 Harmonics (Emissions): Conducted Current Measurements up to the 40 <sup>th</sup> Harmonic	EN 61000-3-2:2000 EN 61000-3-2:2006 Amendment A1:2009 & A2:2009 EN 61000-3-2:2014	



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As listed on Page 1	<b>1 CIVIL EMC TESTS</b> (cont'd)	As listed on Page 1
	1.1.5 Flicker (Emissions) Conducted AC Mains	EN 61000-3-3:1995 incl. Amendment A1:2001 & A2:2006 EN 61000-3-3:2008 EN 61000-3-3:2013
	1.1.6 Power Absorbing Emissions Measurements (Power Clamp) 30 MHz to 1 GHz	EN 55014-1:2000 + A1:2001 and A2:2002 EN 55014-1:2006 + A1:2009 EN 55014-1:2006 + A1:2009 & A2 2011
	1.1.7 Electrostatic Discharge Immunity (ESD): Up to 15 kV	IEC 801-2:1991 EN 61000-4-2:1995 + 1:1998 and 2:2001 EN 61000-4-2:2009
	1.1.8 Radiated Electromagnetic Field Immunity: 80 MHz to 3 GHz	EN 61000-4-3:1996 + A1:1998 and A2:2001 EN 61000-4-3:2002 + A1:2002 EN 61000-4-3:2006 + A1:2008 + A2:2010
	1.1.9 Fast Transient/Burst Immunity: 0.25 kV to 4.0 kV	IEC 801-4:1988 EN 61000-4-4:1995 + A1:2001 + A2:2001 EN 61000-4-4:2004 + A1 EN 61000-4-4:2012
	1.1.10 Surge Immunity  Waveforms: 0.2 kV to 4.4 kV	EN 61000-4-5:1995 + A1:2001 EN 61000-4-5:2006 EN 61000-4-5:2014
	1.1.11 Conducted RF Immunity: 150 kHz to 230 MHz up to 10 V rms	EN 61000-4-6:1996 + A1:2001 EN 61000-4-6:2007 EN 61000-4-6:2009 EN 61000-4-6:2014



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As listed on Page 1	<p><b>1 CIVIL EMC TESTS</b> (cont'd)</p> <p>1.1.12 Power-Frequency Magnetic Field Immunity 16 Hz to 500 Hz up to 100 A/m</p>	<p>EN 61000-4-8:1993 + A1:2001 EN 61000-4-8:2010</p>
	<p>1.1.13 a) Voltage Dips, Interruptions and Fluctuations Immunity</p> <p>b) Voltage and Frequency variations</p>	<p>EN 61000-4-11:1994 + A1:2001 EN 61000-4-11:2004</p> <p>EN 60945:2002</p>
	<p>1.1.14 EMC Tests</p> <p>This section includes generic and product family standards that refer to basic standards included in Sections 1.1.1 to 1.1.13</p> <p>Note: International Standards EN, ENV and IEC, listed in this Schedule, that have been adopted nationally as BS EN, DD ENV and BS IEC and are technically identical can be considered as being included in this Schedule.</p>	<p>EN 50081-1:1992 EN 50081-2:1993 EN 50082-1:1997 EN 61000-6-1:2001 EN 61000-6-1:2007 EN 61000-6-2:1999 EN 61000-6-2:2001 EN 61000-6-2:2005 EN 61000-6-3:2001 + A1:2004 EN 61000-6-3:2007 EN 61000-6-3:2007 + A1:2011 EN 61000-6-4:2001 EN 61000-6-4:2007 EN 61000-6-4:2007 + A1:2011 EN 55014-2:1997 + A1:2001 and A2 2008 EN 55014-2:2006 + A1:2009 EN 55014-2:2015 EN 55103-2:2009 EN 60601-1-2:1993 EN 60601-1-2:2001 EN 60601-1-2:2007 EN 60601-1-2:2015 EN 60945:2002 EN 61326:1997+ A1:1998, A2:2001 and A3:2003 EN 61326-1:2006 EN 61326-1:2013 EN 61326-2-1:2006 EN 61326-2-1:2013</p>



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Automotive Equipment ESA/components	<b>1.2 AUTOMOTIVE EMC TESTS</b>  1.2.1 Radiated Emissions  30 MHz to 1 GHz	UN Regulation no. 10 Revision 4. UN Regulation no. 10 Revision 5 EN 55025:2003
	1.2.2 Radiated Immunity  Absorption Chamber 400 MHz - 2 GHz at 30 V/m	UN Regulation no. 10 Revision 4. UN Regulation no. 10 Revision 5 ISO 11452-2:2004
	1.2.3 Conducted Immunity  BCI 20 MHz to 400 MHz, 60 ma	UN Regulation no. 10 Revision 4. UN Regulation no. 10 Revision 5 ISO 11452-4:2005



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Automotive Equipment ESA/components (cont'd)	1.2.4 Vehicle Transient Emissions and Immunity 12 and 24 v Systems	ISO 7637-2:2004 Pulses 1, 2a, 2b, 3a, 3b & 4 UN Regulation no. 10 Revision 4 UN Regulation no. 10 Revision 5
	<p><b>2 RADIO TRANSMITTER &amp; RECEIVER TESTING</b></p> <p><b>2.1 PMR &amp; Short Range Radio Testing</b></p> <p>2.1.1 Frequency Error and Stability: 9 kHz to 40 GHz</p> <p>2.1.2 Carrier Power:  Up to 2 W &lt; 18 GHz Up to 100 W &lt; 4 GHz</p>	<p>ETSI EN 300 225 V1.5.1 ETSI EN 300 225 V1.4.1</p> <ul style="list-style-type: none"> <li>• Clause 8 Field measurement</li> <li>• Clause 9 Transmitter (with the exception of environmental tests and 9.6 Sensitivity of the modulator, including microphone)</li> <li>• Clause 10 Receiver</li> </ul> <p>ETSI EN 300 422-1 V1.2.2 EN 300 422-1 V1.4.2 (except for measurements that require an acoustic coupler)</p> <p>EN 300 422-2 V1.3.1 (except for measurements that require an acoustic coupler) EN 300 220-1 v2.4.1 EN 300 220-2 v2.4.1</p> <ul style="list-style-type: none"> <li>• Clause 9 Transmitter (with the exception of environmental tests and 9.6 Sensitivity of the modulator, including microphone)</li> <li>□ Clause 10 Receiver</li> </ul> <p>ETSI EN 300 422-1 V1.2.2 EN 300 422-1 V1.4.2 (except for measurements that require an acoustic coupler) EN 300 422-2 V1.3.1 (except for measurements that require an acoustic coupler)</p>



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	<p><b>2 RADIO TRANSMITTER &amp; RECEIVER TESTING (cont'd)</b></p> <p><b>2.1 PMR &amp; Short Range Radio Testing</b></p> <p>2.1.3 Effective Radiated Power  (ERP) &amp; Equivalent  Isotropic Radiated Power (EIRP): 30 MHz to 18 GHz</p>	<p>ETSI EN 300 225 V1.5.1 ETSI EN 300 225 V1.4.1</p> <ul style="list-style-type: none"> <li>• Clause 8 Field measurement</li> <li>• Clause 9 Transmitter (with the exception of environmental tests and 9.6 Sensitivity of the modulator, including microphone)</li> </ul> <p>EN 300 330:V2.1.1 EN 300 330-1 v1.7.1 EN 300 330-1 v1.8.1 EN 300 330-2 v1.5.1 EN 300 330-2 v1.6.1 EN 300 113-1 v1.7.1 EN 300 113-2 v1.5.1 EN 300 086:V2.1.2 EN 300 086-1:V1.2.1</p>
	<p><b>2 RADIO TRANSMITTER &amp; RECEIVER TESTING (cont'd)</b></p> <p><b>2.1 PMR &amp; Short Range Radio Testing</b></p> <p>2.1.4 Maximum Spectral Power Density:</p> <p>2.1.5 Receiver LBT threshold</p> <p>2.1.6 Frequency Deviation: 150 kHz to 1.3 GHz</p> <p>2.1.7 Frequency Range: 9 kHz to 26.5 GHz</p> <p>2.1.8 Adjacent Channel Power:  150 kHz to 26.5 GHz</p> <p>2.1.9 Modulation Depth &amp;  Bandwidth:</p>	<p>ETSI EN 300 225 V1.5.1 ETSI EN 300 225 V1.4.1</p> <ul style="list-style-type: none"> <li>• Clause 8 Field measurement</li> </ul> <p>The standards on page 6 also apply to tests on pages 7 and 8</p> <p>EN 300 086-2:V1.1.1 EN 300 086-2:V1.3.1 EN 300 113:V2.2.1 EN 300 113-1:V1.5.1 EN 300 113-2:V1.3.1 EN 300 220-1:V2.1.1 EN 300 220-1:V2.3.1 EN 300 220-1:V2.4.1 EN 300 220-1:V3.1.1 EN 300 220-2:V2.1.1 EN 300 220-2:V2.3.1 EN 300 220-2:V2.4.1 EN 300 220-2:V3.1.1 EN 300 220-3:V1.1.1 EN 300 330:V2.1.1 EN 300 330-1:V1.4.1 EN 300 330-2:V1.2.1 EN 300 328:V1.6.1 EN 300 328:V1.7.1 EN 300 328:V1.8.1 EN 300 328:V1.9.1 EN 300 328:V2.1.1 EN 300 440:V2.1.1 EN 300 440-1:V1.3.1</p>





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	<p><b>2 RADIO TRANSMITTER &amp; RECEIVER TESTING (cont'd)</b></p> <p><b>2.1 PMR &amp; Short Range Radio Testing</b></p> <p>150 kHz to 1.3 GHz</p> <p>2.1.10 Spurious Emissions: 9 kHz to 110 GHz</p> <p>2.1.11 Intermodulation Attenuation: 20 MHz to 18 GHz</p> <p>2.1.12 Transmitter Transient Behaviour: 150 kHz to 1.3 GHz</p> <p>2.1.13 Transmitter Attack and Release Time: 9 kHz to 26.5 GHz</p>	<p>EN 300 440-1:V1.6.1 ETSI EN 300 225 V1.5.1 ETSI EN 300 225 V1.4.1 • Clause 8 Field measurement The standards on page 6 also apply to tests on pages 7 and 8</p> <p>EN 300 440-2:V1.1.2 EN 300 440-2:V1.4.1 EN 301 357-1:V1.2.1 EN 301 357-1:V1.4.1 EN 301 357-2:V1.2.1 EN 301 357-2:V1.4.1</p> <p>EN 300 422-1:V1.5.1 EN 300 422-1:V1.4.1 EN 300 422-1:V2.1.2 ANSI C 63.10:2009 ANSI C 63.10:2009 RSS-GEN issue 4:2014 RSS-210 issue 9:2016</p>
	<p><b>2 RADIO TRANSMITTER &amp; RECEIVER TESTING (cont'd)</b></p> <p><b>2.1 PMR &amp; Short Range Radio Testing</b></p> <p>2.1.14 H-Field:</p> <p>2.1.15 Receiver Sensitivity</p> <p>2.1.16 Receiver Blocking</p> <p>2.1.17 Co-channel Rejection</p> <p>2.1.18 Adjacent channel selectivity</p> <p>2.1.19 Blocking</p> <p>2.1.20 Intermodulation response</p> <p>2.1.21 Spurious response rejection</p>	<p>ETSI EN 300 225 V1.5.1 ETSI EN 300 225 V1.4.1 • Clause 8 Field measurement The standards on page 6 also apply to tests on pages 7 and 8</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	<p><b>2.2 Microwave Radio Transmitter and Receiver Testing</b></p> <p>2.2.1 Output power up to 100 W &lt; 4 GHz up to 2 W &lt; 40 GHz</p> <p>2.2.2 Frequency Error &amp; Stability 9 kHz to 40 GHz</p> <p>2.2.3 RF Spectrum Mask 9 kHz to 40 GHz</p> <p>2.2.4 Discrete CW Components exceeding the spectrum mask limit</p> <p>2.2.5 External Spurious Emissions 9 kHz to 110 GHz</p> <p>2.2.6 BER as a function of Receiver Input Signal Level</p> <p>2.2.7 Co-Channel Interference</p>	
	<p><b>2.2 Microwave Radio Transmitter and Receiver Testing (cont'd)</b></p> <p>2.2.8 Adjacent Channel Interference</p> <p>2.2.9 CW Spurious Interference 30 MHz to 40 GHz</p>	



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	<p><b>EMC FACILITIES</b></p> <p>Screened Rooms</p> <ul style="list-style-type: none"> <li>1 Semi-Anechoic Chamber: 4.8 m x 3.6 m x 4.8 m</li> <li>2 Semi-Anechoic Chamber: 8.3 m x 5.4 m x 3.6 to 5.5 m</li> <li>3 Screened Room: 3.6 m x 2.4 m x 3.0 m</li> <li>4 Screened Room: 4.2 m x 3.6 m x 2.4 m</li> <li>5 Control Room: 3.6 m x 2.4 m x 2.4 m</li> <li>6 Control Room: 2.4 m x 2.4 m x 2.4 m</li> <li>7 Fully-Anechoic Chamber: 3.3m x 2.3m x 2.3m</li> <li>8 Fully-Anechoic Chamber: 5.7m x 1.9m x 1.9m</li> <li>9 Screened Room: 3.7m x 3.1m x 2.4m</li> <li>10 Semi-Anechoic Chamber: 10.0m x 6m x 5.5m</li> <li>11 Control Room: 3.6m x 2.4m x 2.4m</li> <li>12 Screened Room: 3.6m x 2.4m x 2.4m</li> </ul> <p>Open Area Test Sites</p> <p>3m and 10m Open Area Test Sites (30M – 1GHz)</p> <p>3m, 5m, 10m, &amp; 30m Open Area Test Sites (9kHz – 30MHz)</p> <p>Power Supplies</p> <ul style="list-style-type: none"> <li>Single Phase: 50Hz 230V 30A supply</li> <li>Single Phase: 50Hz 115V 43A supply</li> <li>Single Phase: 60Hz 115V 17A supply</li> <li>Single Phase: 400Hz 115V 12A supply</li> <li>Three Phase: 50Hz 400V 50A supply</li> </ul>	



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<b>FCC DofC</b>		
<i>(example descriptions only)</i>		
UNINTENTIONAL RADIATORS  FCC Part 15, subpart B	Radiated Emissions  9 kHz to 40 GHz  Conducted Emissions 9 kHz to 30 MHz	ANSI C63.4-2014
INDUSTRIAL, SCIENTIFIC AND MEDICAL EQUIPMENT Consumer ISM Equipment  FCC Part 18	Radiated Emissions  9 kHz to 40 GHz  Conducted Emissions 9 kHz to 30 MHz	FCC MP-5 (February 1986),
INTENTIONAL RADIATORS  FCC Part 15, subpart C	Radiated Tests 9 kHz to 110 GHz  Conducted Tests 9 kHz to 110 GHz  Radio tests as per standard. Includes but not limited to: Peak transmit power Emission bandwidth / Occupied BW Modulation Power spectral density Band edge tests Permitted Frequency range In-band unwanted emissions Out-of-band emissions Spurious Emissions Reaction time Frequency and Time Stability	ANSI C63.10-2013



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<p>COMMERCIAL MOBILE SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT)</p> <p>FCC Part 22 (cellular) FCC Part 24 FCC Part 25 (non-microwave) FCC Part 27</p>	<p>Radiated Tests 9 kHz to 110 GHz</p> <p>Conducted Tests 9 kHz to 110 GHz</p> <p>Radio tests as per standard.</p>	<p>ANSI/TIA-603-D TIA-102.CAAA-D</p> <p>KDB Publication 971168</p>
<p>GENERAL MOBILE RADIO SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT)</p> <p>FCC Part 22 (non-cellular) FCC Part 90 (non-microwave) FCC Part 95 FCC Part 97 FCC Part 101 (non-microwave)</p>	<p>Radiated Tests 9 kHz to 110 GHz</p> <p>Conducted Tests 9 kHz to 110 GHz</p> <p>Radio tests as per standard.</p>	<p>ANSI/TIA-603-D TIA-102.CAAA-D</p>
<p>CITIZENS BROADBAND RADIO SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT)</p> <p>FCC Part 96</p>	<p>Radiated Tests 9 kHz to 110 GHz</p> <p>Conducted Tests 9 kHz to 110 GHz</p> <p>Radio tests as per standard.</p>	<p>ANSI/TIA-603-D TIA-102.CAAA-D</p> <p>KDB Publication 971168</p>



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MICROWAVE AND MILLIMETRE BANDS RADIO SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT)  FCC Part 25 FCC part 30 FCC Part 74 FCC Part 90 (90Y, 90Z, DSRC) FCC Part 101	Radiated Tests  9 kHz to 110 GHz  Conducted Tests 9 kHz to 110 GHz  Radio tests as per standard.	ANSI/TIA-603-D  TIA-102.CAAA-D
BROADCAST RADIO SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT)  FCC Part 73 FCC Part 74 (non-microwave)	Radiated Tests  9 kHz to 110 GHz  Conducted Tests 9 kHz to 110 GHz  Radio tests as per standard.	ANSI/TIA-603-D  TIA-102.CAAA-D



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**Accreditation for the purpose of Conformity Assessment Body activity taking into account EA2/17**

Directive / Regulation	Conformity Assessment procedure/ Module/article	Category of products or individual products	Essential requirements: Product specification / Properties/Standards
Mutual Recognition Agreement between the European Union and Australia and New Zealand (OJ L 229 of 17/08/1998, OJ L 359 of 29/12/2012 and OJ L 356 of 22/12/2012)	Conformity Assessment Body (CAB)	Electromagnetic compatibility (EMC) sectoral annex	
END			