## Schedule of Accreditation

**issued by**

**United Kingdom Accreditation Service**

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

<table>
<thead>
<tr>
<th>RN Electronics Ltd</th>
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<tbody>
<tr>
<td>Issue No: 053</td>
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<tr>
<td>Arnolds Court</td>
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**Testing performed at the above address only**

### Flexible Scope

The Flexible Scope applies to the laboratory's accreditation to ISO/IEC 17025:2017 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 GEN 4.
## DETAIL OF ACCREDITATION

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<td>Electrical/Electronic Products</td>
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<td>9 kHz to 30 MHz</td>
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<td>9 kHz to 30 MHz</td>
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<td>Welding Equipment</td>
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### 1.1 CIVIL EMC TESTS

#### 1.1.1 Conducted Emissions
- 9 kHz to 30 MHz
- EN 55016-2-1:2014
- EN 55011-2009+ A1:2010
- EN 55014-1:2017
- CISPR 22:1997
- EN 55022:2010
- EN 55032:2012
- EN 55032:2015
- ANSI C63.4:2003
- ANSI C63.4:2009
- ANSI C63.4:2014 including Amendment C63.4a:2017
- FCC CFR 47: Part 15B
- FCC CFR 47: Part 18
- FCC/OST MP5:1986
- ICES-003:2012
- ICES-003:2016

#### 1.1.2 Signal Line Conducted Emissions
- 150 kHz to 30 MHz
- Signal lines/DC in and out
  (limited to where standard ISN’s and CDN’s can be used)
- EN 55022:2010
- EN 55032:2012
- EN 55032:2015
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<td>1.1.4 Harmonics (Emissions): Conducted Current Measurements up to the 40th Harmonic</td>
<td>EN 61000-3-2:2000</td>
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1.1 **CIVIL EMC TESTS** (cont'd)

1.1.6 **Power Absorbing Emissions**
- Measurements
  - (Power Clamp)
  - 30 MHz to 1 GHz
- EN 55014-1:2017

1.1.7 **Electrostatic Discharge Immunity (ESD):**
- Up to 15 kV
- IEC 801-2:1991
- EN 61000-4-2:2009

1.1.8 **Radiated Electromagnetic Field Immunity:**
- 80 MHz to 3 GHz

1.1.9 **Fast Transient/Burst Immunity:**
- 0.25 kV to 4.0 kV
- IEC 801-4:1988
- 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 61000-4-5:2006
- EN 61000-4-5:2014

1.1.11 **Conducted RF Immunity:**
- 150 kHz to 230 MHz
- up to 10 V rms
- EN 61000-4-6:2007
- EN 61000-4-6:2009
- EN 61000-4-6:2014
### Testing performed at main address only

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<td>This section includes generic and product family standards that refer to basic standards included in Sections 1.1.1 to 1.1.13</td>
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<td>UN Regulation no. 10 Revision 4. UN Regulation no. 10 Revision 5 UN Regulation no. 10 Revision 6 EN 55025:2003</td>
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<td>1.2.2 Radiated Immunity Absorption Chamber 400 MHz - 2 GHz at 30 V/m</td>
<td>UN Regulation no. 10 Revision 4. UN Regulation no. 10 Revision 5 UN Regulation no. 10 Revision 6 ISO 11452:2:2004</td>
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<td>1.2.3 Conducted Immunity BCI 20 MHz to 400 MHz, 60 mA</td>
<td>UN Regulation no. 10 Revision 4. UN Regulation no. 10 Revision 5 UN Regulation no. 10 Revision 6 ISO 11452-4:2005 (substitution method only) ISO 11452-4:2011 (substitution method only)</td>
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<td>1.2.4 Vehicle Transient Emissions and Immunity 12 and 24 v Systems</td>
<td>ISO 7637-2:2004 Pulses 1, 2a, 2b, 3a, 3b &amp; 4 UN Regulation no. 10 Revision 4 UN Regulation no. 10 Revision 5 UN Regulation no. 10 Revision 6</td>
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## Materials/Products tested

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<td><strong>2 RADIO TRANSMITTER &amp; RECEIVER TESTING</strong></td>
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<td><strong>2.1 Short Range Radio, Wideband transmission &amp; PMR Testing</strong></td>
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<td><strong>2.1.1 Frequency Error and Stability:</strong> 9 kHz to 40 GHz</td>
<td>ETSI EN 300 225 V1.5.1</td>
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<td><strong>2.1.2 Carrier Power:</strong> Up to 2 W &lt; 18 GHz Up to 100 W &lt; 4 GHz</td>
<td>ETSI EN 300 225 V1.4.1</td>
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<td><strong>2.1.3 Effective Radiated Power (ERP) &amp; Equivalent Isotropic Radiated Power (EIRP): 30 MHz to 18 GHz</strong></td>
<td>• Clause 8 Field measurement</td>
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<td><strong>2.1.4 Maximum Spectral Power Density</strong></td>
<td>• Clause 9 Transmitter (with the exception of environmental tests and 9.6 Sensitivity of the modulator, including microphone)</td>
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<td><strong>2.1.5 Receiver LBT threshold</strong></td>
<td>• Clause 10 Receiver</td>
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<td><strong>2.1.6 Frequency Deviation:</strong> 150 kHz to 1.3 GHz</td>
<td>EN 300 086:V2.1.2</td>
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<td><strong>2.1.7 Frequency Range:</strong> 9 kHz to 26.5 GHz</td>
<td>EN 300 086-1:V1.2.1</td>
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<td><strong>2.1.8 Adjacent Channel Power:</strong> 150 kHz to 26.5 GHz</td>
<td>EN 300 086-2:V1.1.1</td>
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<td><strong>2.1.9 Modulation Depth &amp; Bandwidth:</strong> 150 kHz to 1.3 GHz</td>
<td>EN 300 113-1 V1.7.1</td>
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<td><strong>2.1.10 Spurious Emissions:</strong> 9 kHz to 231 GHz</td>
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<td><strong>2.1.11 Intermodulation Attenuation:</strong> 20 MHz to 18 GHz</td>
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<td>2.1.14 H-Field:</td>
<td>EN 300 422-1 V1.4.2 (except for measurements that require an acoustic coupler)</td>
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<td>2.1.15 Receiver Sensitivity</td>
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<td>2.1.16 Receiver Blocking</td>
<td>EN 300 422-1:V1.4.1</td>
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<td>2.1.17 Co-channel Rejection</td>
<td>EN 300 422-1:V2.1.2</td>
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<td>2.1.18 Adjacent channel selectivity</td>
<td>EN 300 422-1 V1.2.2</td>
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<td>2.1.19 Blocking</td>
<td>EN 300 422-2 V1.3.1 (except for measurements that require an acoustic coupler)</td>
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<td>2.1.20 Intermodulation response</td>
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Assessment Manager: AP
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<td>Multiple-Gigabit/s radio equipment operating in the 57 - 71 GHz band.</td>
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<td><strong>2.2 Microwave Radio Transmitter and Receiver Testing</strong></td>
<td>EN 302 326-2:V1.2.2 EN 302 567 V2.1.1 Excluding clause 5.3.8 Adaptivity</td>
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2.2.1 Output power
- up to 100 W < 4 GHz
- up to 2 W < 40 GHz

2.2.2 Frequency Error & Stability
- 9 kHz to 40 GHz

2.2.3 RF Spectrum Mask
- 9 kHz to 40 GHz

2.2.4 Discrete CW Components exceeding the spectrum mask limit

2.2.5 External Spurious Emissions
- 9 kHz to 231 GHz

2.2.6 BER as a function of Receiver Input Signal Level

2.2.7 Co-Channel Interference

2.2.8 Adjacent Channel Interference

2.2.9 CW Spurious Interference
- 30 MHz to 40 GHz
## EMC FACILITIES

### Screened Rooms
1. Semi-Anechoic Chamber: 4.8 m x 3.6 m x 4.8 m
2. Semi-Anechoic Chamber: 8.3 m x 5.4 m x 3.6 to 5.5 m
3. Screened Room: 3.6 m x 2.4 m x 3.0 m
4. Screened Room: 4.2 m x 3.6 m x 2.4 m
5. Control Room: 3.6 m x 2.4 m x 2.4 m
6. Control Room: 2.4 m x 2.4 m x 2.4 m
7. Fully-Anechoic Chamber: 3.3m x 2.3m x 2.3m
8. Fully-Anechoic Chamber: 5.7m x 1.9m x 1.9m
9. Screened Room: 3.7m x 3.1m x 2.4m
10. Semi-Anechoic Chamber: 10.0m x 6m x 5.5m
11. Control Room: 3.6m x 2.4m x 2.4m
12. Screened Room: 3.6m x 2.4m x 2.4m

### Open Area Test Sites
3m and 10m Open Area Test Sites (30MHz – 1GHz)
3m, 5m, 10m, & 30m Open Area Test Sites (9kHz – 30MHz)

### Power Supplies
- Single Phase: 50Hz 230V 30A supply
- Single Phase: 50Hz 115V 43A supply
- Single Phase: 60Hz 115V 17A supply
- Single Phase: 400Hz 115V 12A supply
- Three Phase: 50Hz 400V 50A supply
<table>
<thead>
<tr>
<th>Materials/Products tested</th>
<th>Type of test/Properties measured/Range of measurement</th>
<th>Standard specifications/Equipment/Techniques used</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>US MRA - FCC Scope of Accreditation (not included in Flexible Scope)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(example descriptions only)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UNINTENTIONAL RADIATORS</td>
<td>Radiated Emissions 9 kHz to 40 GHz</td>
<td>ANSI C63.4-2014 including Amendment C63.4a-2017</td>
</tr>
<tr>
<td>FCC Part 15, subpart B</td>
<td>Conducted Emissions 9 kHz to 30 MHz</td>
<td></td>
</tr>
<tr>
<td>INDUSTRIAL, SCIENTIFIC AND MEDICAL EQUIPMENT</td>
<td>Radiated Emissions 9 kHz to 40 GHz</td>
<td>FCC MP-5 (February 1986),</td>
</tr>
<tr>
<td>Consumer ISM Equipment</td>
<td>Conducted Emissions 9 kHz to 30 MHz</td>
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<tr>
<td>FCC Part 18</td>
<td></td>
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</tr>
<tr>
<td>INTENTIONAL RADIATORS</td>
<td>Radiated Tests 9 kHz to 231 GHz</td>
<td>ANSI C63.10-2013</td>
</tr>
<tr>
<td>FCC Part 15, subpart C</td>
<td>Conducted Tests 9 kHz to 231 GHz</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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</td>
<td></td>
</tr>
<tr>
<td>UNLICENSED NATIONAL INFORMATON INFRASTRUCTURE (U-NII) DEVICES WITHOUT DFS (INTENTIONAL RADIATORS)</td>
<td>Radiated Tests 9 kHz to 231 GHz</td>
<td>ANSI C63.10-2013</td>
</tr>
<tr>
<td>FCC Part 15, Subpart E</td>
<td>Conducted Tests 9 kHz to 231 GHz</td>
<td>KDB Publication 789033</td>
</tr>
</tbody>
</table>
## Schedule of Accreditation

issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**RN Electronics Ltd**  
Issue No: 053  Issue date: 13 November 2020

Testing performed at main address only

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</table>
| **UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII) DEVICES WITH DYNAMIC FREQUENCY SELECTION (DFS)**  
FCC Part 15 Subpart E | Radiated Tests  
9 kHz to 231 GHz  
Conducted Tests  
9 kHz to 231 GHz | ANSI C63.10-2013  
KDB Publication 905462 D02  
UNII DFS Compliance Procedures  
New Rules v02 |
| **ULTRA-WIDEBAND OPERATION INTENTIONAL RADIATORS**  
FCC Part 15, Subpart F | Radiated Tests  
9 kHz to 231 GHz  
Conducted Tests  
9 kHz to 231 GHz  
Radio tests as per standard | ANSI C63.10-2013 |
| **COMMERCIAL MOBILE SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT)**  
FCC Part 22 (cellular)  
FCC Part 24  
FCC Part 25 (non-microwave)  
FCC Part 27 | Radiated Tests  
9 kHz to 231 GHz  
Conducted Tests  
9 kHz to 231 GHz  
Radio tests as per standard. | ANSI C63.26:2015  
KDB Publication 971168 |
| **GENERAL MOBILE RADIO SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT)**  
FCC Part 22 (non-cellular)  
FCC Part 90 (non-microwave)  
FCC Part 95  
FCC Part 97  
FCC Part 101 (non-microwave) | Radiated Tests  
9 kHz to 231 GHz  
Conducted Tests  
9 kHz to 231 GHz  
Radio tests as per standard. | ANSI C63.26:2015 |

Assessment Manager: AP  
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</table>
| \textbf{CITIZENS BROADBAND RADIO SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT)}
FCC Part 96 | Radiated Tests
9 kHz to 231 GHz
Conducted Tests
9 kHz to 231 GHz
Radio tests as per standard. | ANSI C63.26:2015
KDB Publication 971168 |
| \textbf{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 231 GHz
Conducted Tests
9 kHz to 231 GHz
Radio tests as per standard. | ANSI C63.26:2015 |
| \textbf{BROADCAST RADIO SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT)}
FCC Part 73
FCC Part 74 (non-microwave) | Radiated Tests
9 kHz to 231 GHz
Conducted Tests
9 kHz to 231 GHz
Radio tests as per standard. | ANSI C63.26:2015 |
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<tr>
<td>SIGNAL BOOSTERS</td>
<td>- Wideband consumer signal boosters</td>
<td>ANSI C63.26:2015</td>
</tr>
<tr>
<td></td>
<td>- Provider-specific signal boosters</td>
<td>FCC KDB Publication 935210 D03 (February 12, 2016)</td>
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<tr>
<td></td>
<td>- Industrial signal boosters</td>
<td></td>
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<tr>
<td></td>
<td>- FCC Part 20 &amp; 90.219</td>
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<tr>
<td></td>
<td>Tests as per KDB Frequency Bands</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>FCC KDB Publication 935210 D05 (February 12, 2016)</td>
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<tr>
<td></td>
<td></td>
<td>Indus Booster Basic Measurements v01r01 (February 12, 2016)</td>
</tr>
</tbody>
</table>

### Canadian MRA – ISED Scope of Accreditation (not included in Flexible Scope)

<table>
<thead>
<tr>
<th>General Requirements for Compliance of Radio Apparatus</th>
<th>Conducted &amp; Radiated Tests 9 kHz to 231 GHz</th>
<th>RSS-Gen Issue 5:2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus</td>
<td>Exclusion Calculation only</td>
<td>RSS-102 Issue 5:2015 (RF exposure evaluation)</td>
</tr>
<tr>
<td>Ultra-Wideband (UWB) Technology</td>
<td>Conducted &amp; Radiated Tests 9 kHz to 231 GHz</td>
<td>RSS-220 issue 1:2009 including Amendment 1:2018</td>
</tr>
<tr>
<td>Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices</td>
<td>Conducted &amp; Radiated Tests 9 kHz to 231 GHz</td>
<td>RSS-247 Issue 2:2017 including DFS testing</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Directive / Regulation</th>
<th>Conformity Assessment procedure / Module/article</th>
<th>Category of products or individual products</th>
<th>Essential requirements: Product specification / Properties/Standards</th>
</tr>
</thead>
</table>

END