

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>0416</b> Accredited to <b>ISO/IEC 17025:2017</b>	<b>Thales UK Ltd</b>	
	<b>Issue No: 024    Issue date: 3 March 2021</b>	
	<b>Manor Royal Crawley West Sussex RH10 9HA</b>	<b>Contact: Tom Thorne Tel: +44 (0) 1293 587864 E-Mail: tom.thorne@uk.thalesgroup.com</b>
<b>Testing performed by the Organisation at the locations specified below</b>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details		Activity	Location code
<b>Address</b> EMC Laboratory Manor Royal Crawley West Sussex RH10 9HA	<b>Local contact</b> Tom Thorne  Tel:+44(0)1293 587864 Email: EMC@uk.thalesgroup.com or tom.thorne@uk.thalesgroup.com	EMC	A
<b>Address</b> Environmental Laboratory Manor Royal Crawley West Sussex RH10 9HA	<b>Local contact</b> Mr Tony Knight  Tel:+44(0)1293 581957 Email: tony.knight@uk.thalesgroup.com	Environmental	B



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Electrical / Electronic Products Office Equipment Radar Equipment Satellite subassemblies Security Devices & Alarms Sonar Equipment Telecommunications Equipment Defence Equipment ESM/ECM Equipment Missile Systems Electrical/Electronic Products	EMC Tests Section 1 1.0 Conducted Emissions 20 Hz to 150 MHz and exported transients power supply, control and signal lines Antenna Terminals 10 kHz to 18 GHz, Rx only	DEF STAN 59-41, Issue 1 2003 DCE01.3, DCE02.3, DCE03.3 DEF STAN 59-411 iss 1 & 2 DCE01.B, DCE02.B, DCE03.B RTCA DO 160 E & G Section 21 MIL-STD 461 E CE101, CE102, CE106 MIL-STD 461 F & G CE101, CE102, CE106 AECTP 500 iss 5 2016 NCE04, NCE05	



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	EMC Tests Section 1 (Cont.)  1.1 Radiated Emissions  E and H-field: 20 Hz to 18 GHz	DEF STAN 59-41 issue 1, 2003 DRE01.3, DRE02.3  DEF STAN 59-411 iss 1 & 2 DRE01.B, DRE02.B  MIL-STD 461 E RE101, RE102  MIL-STD 461 F & G RE101, RE102  RTCA DO160 E & G Section 21  AECTP 500 iss 5 2016 NRE01, NRE02	A
	1.2 Conducted Susceptibility  20 Hz to 400 MHz	DEF STAN 59-41 issue 1, 2003 DCS01.3, DCS02.3, DCS03.3  DEF STAN 59-411 iss 1 & 2 DCS01.B, DCS02.B, DCS03.B  MIL-STD 461 E CS101, CS114  MIL-STD 461 F & G CS101, CS114  RTCA DO 160 E & G Section 17, Section 18, Section 20 (Conducted)  AECTP 500 iss 5 2016 NCS01, NCS07	A



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	<p>EMC Tests Section 1 (Cont.)</p> <p>1.3 Radiated Susceptibility</p> <p>E and H-field: 20 Hz to 18 GHz (Maximum E-Field test capability 200V/m)</p> <p>Induced Signal Susceptibility</p>	<p>DEF STAN 59-41 issue 1, 2003 DRS01.3, DRS02.3</p> <p>DEF STAN 59-411 iss 1 &amp; 2 DRS01.B, DRS02.B</p> <p>MIL-STD 461 E RS101, RS103</p> <p>MIL-STD 461 F &amp; G RS101, RS103</p> <p>AECTP 500 iss 5 2016 NRS01, NRS02</p> <p>RTCA DO 160 E &amp; G Sections 19.3.1, 19.3.2, 19.3.3 and 20 (Radiated)</p>	<p>A</p>



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Electrical / Electronic Products Office Equipment Radar Equipment Satellite subassemblies Security Devices & Alarms Sonar Equipment Telecommunications Equipment Defence Equipment ESM/ECM Equipment Missile Systems Electrical/Electronic Products	<p><b>ENVIRONMENTAL TESTS</b></p> <p><b>CLIMATIC</b> - Single Parameters</p> <p><b>HIGH TEMPERATURE</b></p> <p>Max temp: +120°C            Chamber size:            1.8m x 2m x1.8m (WxDxH)</p>	BS EN 60068-2-2:Bb:1993 BS EN 60068-2-2:Ba:1993 BS EN 60068-2-2:B 2007 BS 3G100:Part 2 Sub-Sect 3.2:1970 DEF STAN 07-55:1975 Test B1 DEF STAN 07-55:1975 Test B2 MIL-STD-810D:1983 Method 501.2 MIL-STD-810E:1989 Method 501.3 MIL-STD-810F:2000 Method 501.4 MIL-STD-810G:2008 Method 501.5 MIL-STD-810G:CN1 2014 Method 501.6 MIL-STD-810H:2019 Method 501.7 RTCA DO-160C: Sect 4:1989 RTCA DO-160D: Sect 4:1997 RTCA DO-160E: Sect 4:2004 RTCA DO-160F: Sect 4:2007 RTCA DO-160G: Sect 4:2010 RTCA DO-160G:CN1:Sect 4:2014 DEF STAN 00-35 Issue 3 - CL1 DEF STAN 00-35 Issue 4 – CL2 DEF STAN 00-035 Iss 5 – CL2	B



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	<p><b>LOW TEMPERATURE</b> Min temp: -70°C</p> <p>Chamber size: 1.8m x 2m x1.8m (WxDxH)</p>	<p>BS EN 60068-2-1:Ab:2007 BS EN 60068-2-1:Aa:2007 BS 3G100:Part 2 Sect 3.2:1970 DEF STAN 07-55:1975 Test B4, B5 MIL-STD-810D:1983 Method 502.2 MIL-STD-810E:1989 Method 502.3 MIL-STD-810F:2000 Method 502.4 MIL-STD-810G:2008 Method 502.5 MIL-STD-810G:CN1 2014 Method 502.6 MIL-STD-810H: 2019 Method 502.7 RTCA DO-160C: Sect 4:1989 RTCA DO-160D: Sect 4:1997 RTCA DO-160E: Sect 4:2004 RTCA DO-160F: Sect 4:2007 RTCA DO-160G: Sect 4:2010 RTCA DO-160G: CN1 Sect 4:2014 DEF STAN 00-35 Issue 3 - CL4 DEF STAN 00-35 Issue 4- CL54 DEF STAN 00-035 Iss 5 – CL54</p>	<p align="center">B</p>



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	<p><b>TEMPERATURE CHANGE</b> Thermal Shock</p> <p>Manual Transfer</p> <p>Max temp: +120°C Min temp: -70°C</p> <p>Limiting chamber size:</p> <p>1m x.0.93mx1.09m (WxDxH)</p>	<p>BS EN 60068-2-14:2009 Na DEF STAN 07-55, Test B14, Proc A MIL-STD-810C:1975 Method 503.1 MIL-STD-810D:1983 Method 503.2 MIL-STD-810E:1989 Method 503.3 MIL-STD-810F:2000 Method 503.4 MIL-STD-810G:2008 Method 503.5 MIL-STD-810G:CN1:2014 Method 503.6 MIL-STD-810H:2019 Method 503.7 RTCA DO-160E: Sect 5:2004 RTCA DO-160F: Sect 5:2007 RTCA DO-160G: Sect 5:2010 RTCA DO-160G:CN1 Sect 5:2014</p>	<p>B</p>



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	<p><b>HUMIDITY - Steady State</b> Temp range: +20°C to +70°C Humidity range: 60%rh to 98%rh Max chamber size: 1.8m x 2m x1.8m (WxDxH)</p> <p><b>HUMIDITY - Cyclic</b> Temp range: +20°C to +70°C  Humidity range: 60%rh to 98%rh Max chamber size: 1.8m x 2m x1.8m (WxDxH))</p>	<p>DEF STAN 07-55:1975, Test B7 BS EN 60068-2-78:2013 Cab DEF STAN 00-35 Issue 3 - CL7 DEF STAN 00-35 Issue 4 - CL7</p> <p>DEF STAN 00-035 Issue 5 - CL7</p> <p>BS EN 60068-2-30:2005 Db BS G100:Part 2, sub-sect 3.7:1972 DEF STAN 00-035 Pt3 Issue 5 CL6 DEF STAN 07-55:1975, Test B6 MIL-STD-810C:1975, Method 507.1 MIL-STD-810D:1983, Method 507.2 MIL-STD-810E:1989, Method 507.3 MIL-STD-810F:2000, Method 507.4 MIL-STD-810G:2008, Method 507.5 MIL-STD-810G:CN1 2014 Method 507.6 MIL-STD-810H:2019 Method 507.6 RTCA DO-160C: Sect 6:1989 RTCA DO-160D: Sect 6:1997 RTCA DO-160E: Sect 6:2004 RTCA DO-160F: Sect 6.:2007 RTCA DO-160G: Sect 6:2010 RTCA DO-160G:CN1 Sect 6:2004</p>	<p align="center">B</p>





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	<p><b>DYNAMIC – Single / Combined Parameters</b></p> <p><b>VIBRATION -SINUSOIDAL</b> Electrodynamic: Freq range: 5 Hz to 2 kHz Peak thrust: 28 kN Max displacement: 50mm</p> <p>Freq range: 5 Hz to 2 kHz Peak thrust: 5.4 kN Max displacement: 25mm Temperature range -54°C to +120°C Chamber size 1m x 0.93m x 1.09m</p>	<p>BS EN 60068-2-6:2008 DEF STAN 07-55:1975:Test A1 MIL-STD 810D:1983 Method 514.3 MIL-STD 810E:1989 Method 514.4 MIL-STD 810F:2000 Method 514.5 MIL-STD 810G:2008 Method 514.6 MIL-STD 810G:CN1 2014 Method 514.7 MIL-STD 810H:2019 Method 514.8 BS 3G100:Part 2 Sub-Sect 3.1:1969(1982) RTCA DO-160D: Sect 8:1997 RTCA DO-160E: Sect 8:2004 RTCA DO-160F: Sect 8:2007 RTCA DO-160G: Sect 8:2010 RTCA DO-160G:CN1 Sect 8:2014 DEF STAN 00-35 Issue 3 - M1 DEF STAN 00-35 Issue 4 - M1 DEF STAN 00-035 Issue 5 - M1</p>	<p>B</p>



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	<p><b>VIBRATION - RANDOM</b> Electrodynamic: Freq range: 5 Hz to 2 kHz Peak thrust: 28 kN Max displacement: 50mm</p> <p>Freq range: 5 Hz to 2 kHz Peak thrust: 5.4 kN Max displacement: 25mm Temperature range -54°C to +120°C Chamber size 1m x 0.93m x 1.09m</p>	<p>BS EN 60068-2-64:2008 BS EN 60068-2-64:2008+A1 2019 IEC 60068-2-64:2008 BS 3G100:Part 2 Sub-Sect 3.1:1969(1982) DEF STAN 07-55:1975:Test A2 MIL STD 810D:1983 Method 514.3 MIL STD 810E:1989 Method 514.4 MIL STD 810F:2000 Method 514.5 MIL STD 810G:2008 Method 514.6 MIL STD 810G:CN1:2014 Method 514.7 MIL-STD 810H:2019 Method 514.8 MIL-STD-202F, Method 214 RTCA DO-160D:8:1997 RTCA DO-160E:8:2004 RTCA DO-160F:8:1997 RTCA DO-160G: Sect 8:2010 RTCA DO-160G:CN1 Sect 8:2014 DEF STAN 00-35 Issue 3 - M1 DEF STAN 00-35 Issue 4 - M1 DEF STAN 00-035 Issue 5 - M1</p>	B
	<p><b>SHOCK</b> Half Sine, Triangular, Sawtooth, Rectangular, Trapezoidal, User Defined</p> <p><b>Electrodynamic:</b> Freq range: 5 Hz to 2 kHz Peak thrust: 28 kN Max displacement: 50mm</p> <p>Freq range: 5 Hz to 2 kHz Peak thrust: 5.4 kN Max displacement: 25mm Temperature range -54°C to +120°C Chamber size 1m x 0.93m x 1.09m</p>	<p>BS EN 60068-2-27:1993 BS EN 60068-2-27:2009 DEF STAN 00-35 Issue 3 – M3 DEF STAN 00-35 Issue 4 – M3 DEF STAN 00-035 Issue 5 – M3 RTCA DO-160G:CN1 Sect 7 :2014</p>	B



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	<p><b>CLIMATIC / DYNAMIC Combined Parameters</b></p> <p><b>HIGH / LOW TEMPERATURE VIBRATION AND SHOCK</b></p> <p>Electrodynamic:</p> <p>Freq range: 5 Hz to 2 kHz</p> <p>Peak thrust: 28 kN Max displacement: 50mm</p> <p>Freq range: 5 Hz to 2 kHz Peak thrust: 20 kN Max displacement: 24mm</p>	<p>Temperature and Vibration Procedures 03-103-118913 High Low Temp Issue01 02-103-118912 Vibration Issue 01</p>	B																					
Facilities																								
	<p><b>Power supplies offered</b></p> <table border="0"> <tr> <td>1 Phase: 240V,</td> <td>50 Hz,</td> <td>32A</td> </tr> <tr> <td>1 Phase: 240V,</td> <td>50 Hz,</td> <td>13A (standard plug-top)</td> </tr> <tr> <td>3 Phase: 415V line to line,</td> <td>50 Hz,</td> <td>32A per phase</td> </tr> <tr> <td>3 Phase: 200V line to line,</td> <td>400 Hz,</td> <td>32A per phase</td> </tr> <tr> <td>3 Phase: 440V line to line,</td> <td>60Hz,</td> <td>32A per phase</td> </tr> <tr> <td>3 phase: 115V line to line,</td> <td>60Hz,</td> <td>50A per phase</td> </tr> <tr> <td>DC: 0 - 60V,</td> <td></td> <td>50 A max</td> </tr> </table> <p><b>General</b> Laboratory is secure to allow for handling/storage of equipment and documentation up to HMG Top Secret.</p> <p>Minimum 3m access to all chambers and vibration systems. 1 ton 2 directional crane in vibration rooms.</p>	1 Phase: 240V,	50 Hz,	32A	1 Phase: 240V,	50 Hz,	13A (standard plug-top)	3 Phase: 415V line to line,	50 Hz,	32A per phase	3 Phase: 200V line to line,	400 Hz,	32A per phase	3 Phase: 440V line to line,	60Hz,	32A per phase	3 phase: 115V line to line,	60Hz,	50A per phase	DC: 0 - 60V,		50 A max		B
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Facilities	Location Code																					
<p><b>Chamber 1</b> Anechoically lined screened test chamber, compliant with EN 55016-2-3: 2006 site attenuation requirements for 3m OATS. Equipped with 2 tonne, turntable, flush with floor, and 4m-antenna mast, all operating under computer control. Also compliant with site attenuation requirements for DEF STAN 59-411, man-worn/man-portable equipment (Annex A), and field uniformity requirements for EN61000-4-3, DEF STAN 59-411, MIL-STD 461E/F, RTCA DO-160E Chamber dimensions are nominally 11m long x 6m wide x 6m high.</p> <p><b>Chamber 2</b> Identical in construction to Chamber 1, but smaller, and without turntable. Compliant with field uniformity requirements for EN61000-4-3, DEF STAN 59-411, MIL-STD 461E/F, RTCA DO-160E Chamber dimensions are nominally 7.2m long x 4.8m wide x 4m high</p> <p><b>Screened Control Room</b> Interlinks the two test chambers. All facilities mirrored on both sides of room to allow for simultaneous, independent working in both test chambers.</p> <p><b>Power supplies</b> Capability common to both test chambers and control room, with supplies mirrored outside each chamber:</p> <table border="0"> <tr> <td>1 Phase: 240V,</td> <td>50 Hz,</td> <td>32A</td> </tr> <tr> <td>1 Phase: 240V,</td> <td>50 Hz,</td> <td>13A (standard plug-top)</td> </tr> <tr> <td>3 Phase: 415 line to line,</td> <td>50 Hz,</td> <td>63A per phase</td> </tr> <tr> <td>3 Phase: 200V line to line,</td> <td>400 Hz,</td> <td>63A per phase</td> </tr> <tr> <td>3 Phase: 440 V line to line,</td> <td>60Hz,</td> <td>63A per phase</td> </tr> <tr> <td>3 phase: 115V line to line,</td> <td>60Hz,</td> <td>50A per phase</td> </tr> <tr> <td>DC: 0 - 60V,</td> <td></td> <td>50 A max</td> </tr> </table> <p><b>General</b> Laboratory is secure to allow for handling/storage of equipment and documentation up to HMG Top Secret. Chamber and control room screening performance,           100dB up to 40GHz Absorber performance,   -35dB return loss at 40GHz Both main chamber door apertures are nominally 2.4m wide x 2.7m high, and all chamber access doors are lockable. Direct vehicular access to both chambers from outside the building. Maximum distributed weight 4 tonnes. Low door thresholds (30mm) and integral ramp systems allow for easy handling of large and heavy loads. Fully equipped workshop with ESSD handling facilities for repair/investigation work on customers' equipment when necessary.</p>	1 Phase: 240V,	50 Hz,	32A	1 Phase: 240V,	50 Hz,	13A (standard plug-top)	3 Phase: 415 line to line,	50 Hz,	63A per phase	3 Phase: 200V line to line,	400 Hz,	63A per phase	3 Phase: 440 V line to line,	60Hz,	63A per phase	3 phase: 115V line to line,	60Hz,	50A per phase	DC: 0 - 60V,		50 A max	<p align="center">A</p>
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