

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 Accredited to ISO/IEC 17025:2017	Environmental Test Services Ltd	
	Issue No: 022 Issue date: 26 May 2020	
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DETAIL OF ACCREDITATION

Flexible Scope

The Flexible Scope applies to the laboratory's accreditation to BS EN ISO/IEC17025:2017 for testing activities in accordance with the standards listed in the schedule. 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 GEN4.



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AEROSPACE COMPONENTS AND EQUIPMENT BATTERIES AND CELLS CIRCUIT BREAKERS AND SWITCHES COATINGS: METALLIC COATINGS: NON-METALLIC COMPUTERS AND PERIPHERALS ELECTRICAL/ELECTRONIC COMPONENTS, CONNECTORS AND PRODUCTS ELECTRICAL CABLES ELECTRO-MECHANICAL DEVICES ENCLOSURES FOR ELECTRICAL EQUIPMENT FANS FASTENERS HOSES, PIPES AND TUBES INSTRUMENTS: INDICATING/RECORDING INSULATION MATERIALS: ELECTRICAL IT EQUIPMENT LUMINAIRES MARINE EQUIPMENT MEASURING EQUIPMENT MICRO-ELECTRONIC CIRCUITS AND COMPONENTS MISSILE COMPONENTS MOTOR VEHICLE ACCESSORIES AND COMPONENTS OFFICE EQUIPMENT: ELECTRICAL OPHTHALMIC PRODUCTS: OPTICAL OPTICAL FIBRE PACKAGES AND PACKAGING MATERIALS PAINTS AND VARNISHES PLUGS AND SOCKETS: ELECTRICAL POWER SUPPLIES: ELECTRICAL PRINTED CIRCUIT BOARDS RADAR EQUIPMENT RADIO AND TV EQUIPMENT	ENVIRONMENTAL TESTS (non-explosive items) 1 CLIMATIC 1.1 HIGH TEMPERATURE - -Constant Max temp: +200°C Max chamber size: 0.47 m x 0.65 m x 0.4 m - Constant/Cyclic Max temp: +175°C Max chamber size: 1.0 m x 1.1 m x 1.0 m (high) Max temp: +70°C Max chamber size: (Walk-In) 1.8 m x 2.4 m x 2.4 m (high) 1.2 LOW TEMPERATURE - Constant/Cyclic Min temp: -70°C Max chamber size: 1.0 m x 1.1 m x 1.0 m (high) Min temp: -40°C Max chamber size: (Walk-In) 1.8 m x 2.4 m x 2.4 m (high)	BS 2011:B:1977(1980) BS EN 60068-2-2:1993 Tests Ba, Bb, Bd (forced air circulation, Methods A and B) BS EN 60068-2-2:2007 IEC 60068-2-2:1974 IEC 60068-2-2:2007 DEF STAN 07-55:1975 Tests B1, B2 DEF STAN 00-35:2006,Pt3,Issue4 Test CL1 / CL2 ETSI EN 300 019 Part 2.1: 2014 ETSI EN 300 019 Part 2.2: 2013 ETSI EN 300 019 Part 2.7: 2003 MIL-STD-810E:1989(1990) Method 501.3 MIL-STD-810F:2000 Method 501.4 MIL-STD-810G:2008 Method 501.5 MIL-STD-810G:2014 w/Ch1 Method 501.6 RTCA DO-160D RTCA DO-160E RTCA DO-160F para 4.5.3, 4.5.4, 4.5.5, 5.3.1 RTCA DO-160G BS 2011:A:1990 BS EN 60068-2-1:1993 Tests Aa, Ab, Ad (forced air Circulation, Methods A and B) BS EN 60068-2-1:2007 IEC 68-2-1:1990 IEC 60068-2-1:1993 IEC 60068-2-1:2007 DEF STAN 07-55:1975 Tests B4, B5 DEF STAN 00-35:2006,Pt3,Issue4 Test CL4 / CL5 ETSI EN 300 019 Part 2.1: 2014 ETSI EN 300 019 Part 2.2: 2013 ETSI EN 300 019 Part 2.7: 2003 MIL-STD-810E:1989(1990) Method 502.3



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<p>Continued from Page 1</p> <p>SATELLITES AND SUB-ASSEMBLIES SECURITY DEVICES AND ALARMS SMOKE DETECTORS SONAR EQUIPMENT TELECOMMUNICATION EQUIPMENT TRANSFORMERS: ELECTRICAL WEAPONS AND SUB-ASSEMBLIES</p>	<p>ENVIRONMENTAL TESTS 1 CLIMATIC (cont'd)</p> <p>1.2 LOW TEMPERATURE (cont'd)</p> <p>1.3 CHANGE OF TEMPERATURE</p> <p>- Automatic transference Temp range: -70°C to +200°C Max chamber size: 0.47 m x 0.65 m x 0.40 m (high)</p> <p>- Single chamber (cyclic) Temp range: -70°C to +150°C Max rate of change: 10°C/min Max chamber size: 0.6 m x 0.6 m x 0.6 m</p> <p>Temp range: -70°C to +150°C Max rate of change: 3°C/min Max chamber size: (Walk-In) 1.8 m x 2.4 m x 2.4 m (high)</p> <p>- Manual transference (2 chambers) Temp range: -70°C to +175°C Max chamber size: 1.0 m x 1.1 m x 1.0 m (high) Temperature/humidity cyclic</p> <p>1.4 HIGH HUMIDITY</p> <p>- Constant/Cyclic Humidity range: 10% rh to 98% rh</p> <p>Temp range: +10°C to +85°C Max chamber size: 1.0 m x 1.1 m x 1.0 m (high)</p> <p>Temp range: +10°C to +70°C Max chamber size: (Walk-In) 1.8 m x 2.4 m x 2.4 m (high)</p>	<p>MIL-STD-810F:2000 Method 502.4 MIL-STD-810G:2008 Method 502.5 MIL-STD-810G:2014 w/Change 1 Method 502.6 RTCA DO-160D RTCA DO-160E RTCA DO-160F para 4.5.1, 5.3.1 RTCA DO-160G</p> <p>BS 2011:N:1985(1987) Tests Na, Nb BS EN 60068-2-14:2000 BS EN 60068-2-14:2009 IEC 60068-2-14:1984 IEC 60068-2-14:2009 DEF STAN 07-55:1975 Test B14 (Proc A) DEF STAN 00-35:2006,Pt3,Issue4 Test CL14 MIL-STD-810E:1989(1990) Method 503.3 MIL-STD-810F:2000 Method 503.4 MIL-STD-810G:2008 Method 503.5 MIL-STD-810G:2014 w/Change 1 Method 503.6 RTCA DO-160D RTCA DO-160E RTCA DO-160F para 5.3.1, 5.3.2, 5.3.3 RTCA DO-160G</p> <p>BS 2011:Ca:1977(1987) BS 2011:Db:1981 BS 2011:Cb:1990 BS EN 60068-2-30:2005 Test Db BS EN 60068-2-78:2002 Test Cab BS EN 60068-2-78:2013 Test Cab IEC 68-2-3:1969 IEC 68-2-30:1980 IEC 60068-2-30:2005 IEC 68-2-56:1988 IEC 60068-2-78:2012 Test Cab</p>



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As listed on Pages 1 and 2	<p>ENVIRONMENTAL TESTS (cont'd)</p> <p>1 CLIMATIC (cont'd)</p> <p>1.7 HIGH PRESSURE</p> <p>Temp range: ambient Max pressure: 304 kPa Max Chamber size: 1.0 m x 0.75 m (diameter)</p> <p>1.8 DECOMPRESSION</p> <p>Temp range: ambient Max/Min pressure: 304 kPa/3.4 kPa Max Chamber size: 1.0 m x 0.75 m (diameter)</p> <p>1.9 SALT MIST & SALT CORROSION</p> <p>Temp range: ambient to +55°C Chamber size: 1.4 m x 0.8 m x 0.8 m</p> <p>1.10 ICING/FREEZING RAIN</p> <p>Max chamber size: 1.8 m x 2.4 m x 2.4 m (high)</p>	<p>DEF STAN 07-55:1975, Test B15 DEF STAN 00-35:2006,Pt3,Issue4 Test CL15 RTCA DO-160D RTCA DO-160E RTCA DO-160F para 4.6.3 RTCA DO-160G</p> <p>DEF STAN 00-35:2006,Pt3,Issue4 Test CL9 RTCA DO-160D RTCA DO-160E RTCA DO-160F para 4.6.2 RTCA DO-160G MIL-STD-810G:2008 Method 500.5 MIL-STD-810G:2014 w/Change 1 Method 500.6</p> <p>BS 2011:Ka:1982 BS 2011:Kb:1987 BS EN 60068-2-11:1999 BS EN 60068-2-52:1996 IEC 60068-2-11:1981 IEC 60068-2-52:1996 IEC 68-2-52:1984 DEF STAN 07-55:1975, Test C2 DEF STAN 07-55:1975, Test C5 DEF STAN 00-35:2006,Pt3,Issue4 Test CN2 MIL-STD-810E:1989(1990) Method 509.3 MIL-STD-810F:2000 Method 509.4 MIL-STD-810G:2008 Method 509.5 MIL-STD-810G:2014 w/Change 1 Method 509.6 RTCA DO-160D RTCA DO-160E RTCA DO-160F para 14 RTCA DO-160G</p> <p>MIL-STD-810E:1989 Method 521.1 MIL-STD-810F:2000 Method 521.2 MIL-STD-810G:2008 Method 521.3 MIL-STD-810G:2014 w/Change 1 Method 521.4</p>



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As listed on Pages 1 and 2	<p>ENVIRONMENTAL TESTS (cont'd)</p> <p>2 DYNAMIC</p> <p>2.1a VIBRATION - Sinusoidal (ambient temperature)</p> <p>Electromagnetic Vibrator System 1 Slip-table (600mm x 600mm) Freq range: 5 to 3000 Hz Peak thrust: 13.3 kN Max pk/pk displacement: 25 mm</p> <p>Electromagnetic Vibrator System 3 Freq range: 5 to 3000 Hz Peak thrust: 15 kN Max pk/pk displacement: 50mm</p> <p>Electromagnetic Vibrator System 4 Freq range: 10 to 2000 Hz Peak thrust: 28 kN Max pk/pk displacement: 25mm</p> <p>2.1b VIBRATION - Sinusoidal (combined with temperature)</p> <p>Electromagnetic Vibrator System 2 Head Expander (440mm x 440mm) Freq range: 5 to 3000 Hz Peak thrust: 13.3 kN Max pk/pk displacement: 25mm</p> <p>Temp range: -50°C to +125°C Max rate of change: 10°C/min Chamber size: 0.7 m x 0.7 m x 0.7 m</p> <p>General Note: Consideration of the above systems maximum acceleration is dependant on load and frequency</p>	<p>BS 2011:Fc:1983(1986) BS 2011:Z/AFc:1984 BS 2011:Z/BFc:1984 BS EN 60068-2-6:1996 BS EN 60068-2-6:2008 BS EN 60068-2-50:2000 BS EN 60068-2-51:2000 IEC 68-2-6:1982 IEC 60068-2-6:2007 IEC 60068-2-50:1983 IEC 60068-2-51:1983 DEF STAN 07-55:1975, Test A1 DEF STAN 00-35:2006,Pt3,Issue 4 Test M1 ETSI EN 300 019 Part 2.1: 2014 MIL-STD-108E:4.3:1966 MIL STD 810E:1989 Method 514.4 MIL-STD-810F:2000 Method 514.5 MIL-STD-810G:2008 Method 514.6 MIL-STD-810G:2014 w/Change 1 Method 514.7 RTCA DO-160D RTCA DO-160E RTCA DO-160F para 8.5.1, 8.7.1 RTCA DO-160G</p>



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As listed on Pages 1 and 2	<p>ENVIRONMENTAL TESTS (cont'd)</p> <p>2 DYNAMIC (contd)</p> <p>2.2a VIBRATION – Mixed Mode (ambient temperature)</p> <p>Vibration can be applied using all of the four vibrator systems described above with some consideration to thrust derating.</p> <p>Vibration types:</p> <ul style="list-style-type: none"> - Broad Band Random - Sine on Random (Fixed/ Swept sine tones) - Random on Random (Fixed/Swept narrow bands) - Simulated Gunfire <p>2.2b VIBRATION – Mixed Mode (combined with temperature)</p> <p>As above using:- Electromagnetic Vibrator System 2 Temp range: -50°C to +125°C</p>	<p>BS 2011:Fd:1973(1984) BS EN 60068-2-64:1995 BS EN 60068-2-64:2008 IEC 68-2-34:1973 IEC 68-2-64:1973 IEC 60068-2-64:1993 IEC 60068-2-64:2008 DEF STAN 07-55:1975, Test A2 DEF STAN 00-35:2006 Pt3, Issue 4, Chap 2-01, Test M1 ETSI EN 300 019 Part 2.1: 2014 ETSI EN 300 019 Part 2.2: 2013 ETSI EN 300 019 Part 2.7: 2003 MIL-STD-810E:1989(1990) Method 514.4 MIL-STD-810F:2000 Method 514.5 MIL-STD-810G:2008 Method 514.6 MIL-STD-810G:2014 w/Change 1 Method 514.7 MIL-STD-810E:1989(1990) Method 519.4 (Gunfire) MIL-STD-810F:2000 Method 519.5 MIL-STD-810G:2008 Method 519.6 MIL-STD-810G:2014 w/Change 1 Method 519.7 RTCA DO-160D RTCA DO-160E RTCA DO-160F para 8.5.2, 8.7.2, 8.8 RTCA DO-160G</p>



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