


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>0018</b>  Accredited to <b>ISO/IEC 17025:2005</b>	<b>AQL - EMC Ltd</b>	
	Issue No: 035    Issue date: 23 April 2018	
	<b>16 Cobham Road</b> <b>Ferndown Industrial Estate</b> <b>Wimborne</b> <b>Dorset</b> <b>BH21 7PG</b>	<b>Contact: Mr N Foot</b> <b>Tel: +44 (0)1202 861175</b> <b>Fax: +44 (0)1202 861176</b> <b>E-Mail: info@aqlemc.co.uk</b> <b>Website: www.aqlemc.co.uk</b>
Testing performed by the Organisation at the locations specified below		

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

#### Laboratory locations:

Location details	Activity	Location code
<b>Address</b> 16 Cobham Road Ferndown Industrial Estate Wimborne Dorset BH21 7PG  <b>Local contact</b> Mr N Foot  Tel: +44 (0)1202 861175 Fax: +44 (0)1202 861176 Email: info@aqlemc.co.uk Website: www.aqlemc.co.uk	EMC	A

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
Any Customer Premises	EMC	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
Aerospace Equipment Aerospace Materials Aerospace Structures Agricultural Equipment Batteries and Cells Ceramics and Products Circuit Breakers and Switches Coatings, Metallic Compressors Computers and Peripherals Construction Materials Construction Plant and Equipment Construction Products Domestic Appliances, Electrical Electrical/Electronic Components Electrical/Electronic Connectors Electrical/Electronic Products Electrical Cables Electro-Mechanical Devices Enclosures for Electrical Equipment Engine Components Fans Filters and Filter Media Firearms Fire Fighting and Detection Equipment Flowmeters Foundry Equipment Fuzes: Weapons Gas Appliances Generators: Electrical Generators: Power Generators: Welding Glass and Products Hoses, Pipes and Tubes Hydraulic Equipment and Fittings Instruments: Indicating/Recording	<b>EMC TESTS</b>  1 Conducted Emissions DC to 18 GHz	BS 3G100:Part 4:Section 2:1973 and 1980 BS 1597:1985 and 1992 DEF STAN 59-41:Part 3:Issue 3: 1988 DEF STAN 59-41Part 3:Issue 4: 1993 DEF STAN 59-41:Part 3:Issue 5: 1995 DCE 01, DCE 02, DCE 03 DEF STAN 59-41:Part 3: Section 3:issue 1:2003 DCE 01, DCE 02, DCE 03 DEF STAN 59-411 including Issue 1, Amendment A1, Issue 2 DCE01.B, DCE02.B & DCE03.B DGS 250B:1981 and Amendment 1 NWS 3:1973 and Amendments 1 to 4 RTCA/DO-160A:Sect 21 RTCA/DO-160B:Sect 21 RTCA/DO-160C:Sect 21 RTCA/DO-160D:Sect 21 RTCA/DO-160E:Sect 21 RTCA/DO-160F:Sect 21 RTCA/DO-160G:Sect 21 MIL STD 461A and Notices 1 to 5 MIL STD 461B MIL STD 461C (Note 1) MIL STD 461D (Note 1) MIL STD 461E MIL STD 461F  SPE-J-000-E-1000:Part 2:1991 CE-EFA-1, CE-EFA-2 and CE-EFA-3 Panavia SP-P-90010:Issue 1:1995	A, B



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Continued from Page 2	<b>EMC TESTS (cont'd)</b>		
Insulating Materials: Electrical Laminates and Fibre Composites Lamps: Electrical Lawnmowers Lifting Gear Luminaires Magnetic Materials Marine Equipment Measuring Equipment Mechanical Products and Plant Medical and Dental Equipment Medical and Dental Materials Metal Products Metals and Alloys: Ferrous Metals and Alloys: Non-Ferrous Micro-Electronic Circuits and Components Mining Equipment Components Mining Plant and Equipment Missile Components Missiles: Guided Missiles: Unguided Moisture Meters Motor Vehicle Accessories and Components Motor Vehicles Motors: Electrical Office Equipment: Electrical Optical and Photometric Equipment Packages and Packaging Materials Paints and Varnishes Plastics and Products Plugs and Sockets: Electrical Power Supplies: Electrical Printed Circuit Boards	2 Radiated Emissions: Magnetic Field: DC to 30 MHz Electric Field: 9 kHz to 18 GHz	BS 3G100:Part 4:Section 2:1973 and 1980 BS 1597:1985 and 1992 DEF STAN 59-41:Part 3:Issue 3: 1988 DEF STAN 59-41:Part 3:Issue 4: 1993 DEF STAN 59-41:Part 3:Issue 5: 1995 DRE 01, DRE 02, DRE 03 DEF STAN 59-41:Part 3: Section 3:issue 1:2003 DRE 02, DRE 03 DEF STAN 59-411 including Issue 1, Amendment A1, Issue 2 DRE02.B DEF STAN 59-411 including Issue 1, Amendment A1, Issue 2 DRE01, DRE02 DRE03  DGS 250B:1981 and Amendment 1 NWS 3:1973 and Amendments 1 to 4 RTCA/DO-160A:Sect 21 RTCA/DO-160B:Sect 21 RTCA/DO-160C:Sect 21 RTCA/DO-160D:Sect 21 RTCA/DO-160E:Sect 21 RTCA/DO-160F:Sect 21 RTCA/DO-160G:Sect 21 MIL STD 461A and Notices 1 to 5 MIL STD 461B MIL STD 461C (Note 1) MIL STD 461D (Note 1) MIL STD 461E MIL STD 461F  SPE-J-000-E-1000:Part 2:1991 RE-EFA-1 and RE-EFA-2 Panavia SP-P-90010:Issue 1:1995	A, B



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p>Continued from Page 3</p> <p>Pumps Radar Equipment Radio and TV Equipment Rubber and Products Satellites and Equipment Security Devices and Alarms Sonar Equipment Structural Components and Fittings Structures Switchboards: Electrical Telecommunication Equipment Textiles Tools: Hand and Machine Toys Transformers: Electrical Walls: Cladding and Curtain Walling Waste Handling Equipment Weapons and Sub-assemblies Windows</p>	<p><b>EMC TESTS</b> (cont'd)</p> <p>3 Conducted Susceptibility DC to 600 MHz</p> <p>These tests must normally be carried out in a screened enclosure, or other arrangements made to prevent contravention of the Wireless Communications Act.</p>	<p>BS 3G100:Part 4:Section 2:1973 and 1980 BS 1597:1985 and 1992 EN 61000-4-4:1995 IEC 1000-4-4:1995 DEF STAN 59-41:Part 3:Issue 3: 1988 DEF STAN 59-41:Part 3:Issue 4: 1993 DEF STAN 59-41:Part 3:Issue 5: 1995 DCS 01, DCS 02, DCS 03 DEF STAN 59-41:Part 3: Section 3:issue 1:2003 DCS 01, DCS 02, DCS 03 DEF STAN 59-411 including Issue 1, Amendment A1, Issue 2 DCS01.B, DCS02.B &amp; DCS03.B DEF STAN 61-5:Part 2:1978 DEF STAN 61-5:Part 4:1974 DEF STAN 61-5:Part 6:1990 DGS 250B:1981 and Amendment 1 NWS 3:1973 and Amendments 1 to 4 RTCA/DO-160A:Sections 18 to 20: RTCA/DO-160B:Sections 18 to 20: RTCA/DO-160C:Sections 18 to 20: RTCA/DO-160D:Sections 18 to 20: RTCA/DO-160E:Sections 18 to 20: RTCA/DO-160F:Sections 18 to 20 RTCA/DO-160G:Sections 18 to 20</p> <p>MIL STD 461A and Notices 1 to 5 MIL STD 461B Parts1 to10 MIL STD 461C Parts1 to10 Note 1) MIL STD 461D Parts1 to10(Note 1) MIL STD 461E MIL STD 461F</p> <p>SPE-J-000-E-1000:Part 2:1991 CS-EFA-1 and CS-EFA-2 Panavia SP-P-90010:Issue 1:1995</p>	<p>A, B</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
As listed on Pages 2, 3 and 4	EMC TESTS (cont'd)		
	4 Conducted Susceptibility - Transients	RTCA/DO-160A:Sect 17 RTCA/DO-160B:Sect 17 RTCA/DO-160C:Sect 17 RTCA/DO-160D:Sect 17 RTCA/DO-160E:Sect 17 RTCA/DO-160F:Sect 17 RTCA/DO-160G:Sect 17 DEF STAN 59-41:Part 3: Section 3:issue 1:2003 DCS04, DCS05, DCS06, DCS11 and DCS12 DEF STAN 59-41:Part 3:Issue 5 DCS04, DCS05, DCS06, DCS11 and DCS12 DEF STAN 59-41:Part 3:Issue 6, DCS04, DCS05, DCS06 and DCS12 DEF STAN 59-411 including Issue 1, Amendment A1, Issue 2 DCS04.B, DCS05.B, DCS06.B DCS08.B, DCS12.B MIL STD 461A and Notices 1 to 5 MIL STD 461B Parts1 to10 MIL STD 461C Parts1 to10(Note 1) MIL STD 461D Parts1 to10(Note 1) MIL STD 461E MIL STD 461F SPE-J-000-E-1000:Part 2:1991 CS-EFA-4	A, B
	5 Radiated Susceptibility Electric Field: 10 kHz to 18 GHz excluding mode stir methods Typical field strengths 10 kHz to 30 MHz, 300 V/m 30 MHz to 220 MHz, 250 V/m 220 MHz to 18 GHz, 200 V/m	BS 3G100:Part 4:Section 2:1973 and 1980 BS 1597:1985 and 1992 DEF STAN 59-41:Part 3:Issue 3: 1988 DEF STAN 59-41:Part 3:Issue 4: 1993 DEF STAN 59-41:Part 3:Issue 5: 1995 DRS 01, DRS 02, DMFS01 DEF STAN 59-41:Part 3: Section 3:issue 1:2003 DRS 01, DRS 02, DMFS01	A, B



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As listed on Pages 2, 3 and 4	<p>EMC TESTS (cont'd)</p> <p>5 Radiated Susceptibility (cont'd)</p> <p>Magnetic Field: DC to 100 kHz Typical field strengths DC Fields, 5000 A/m 50, 60 and 400 Hz, 3500 A/m AC Fields, 20 Hz to 100 kHz, 186 dBpT</p> <p>These tests must normally be carried out in a screened enclosure, or other arrangements made to prevent contravention of the Wireless Communications Act.</p>	<p>DEF STAN 59-411 including Issue 1, Amendment A1, Issue 2 DRS01.B &amp; DRS03.B DRS02</p> <p>DGS 250B:1981 and Amendment 1 NWS 3:1973 and Amendments 1 to 4 RTCA/DO-160A:Section 20 RTCA/DO-160B:Section 20 RTCA/DO-160C:Section 20 RTCA/DO-160D:Section 20 RTCA/DO-160E:Section 20 RTCA/DO-160F:Section 20 RTCA/DO-160G:Section 20</p> <p>MIL STD 461A and Notices 1 to 5 MIL STD 461B Parts1 to10 MIL STD 461C Parts1 to10(Note 1) MIL STD 461D Parts1 to10(Note 1) MIL STD 461E MIL STD 461F SPE-J-000-E-1000:Part 2:1991 RS-EFA-1 RS-EFA-2 RS-EFA-3 Panavia SP-P-90010:Issue 1:1995 TRG 1068:1991</p>	A, B



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As listed on Pages 2, 3 and 4	EMC TESTS (cont'd)		
	6 Electrostatic Discharge and Lightning ESD up to 15 kV	BS EN 61000-4-2:1995, inc Amd 1 RTCA/DO-160A:Section 22 RTCA/DO-160B:Section 22 RTCA/DO-160C:Section 22 RTCA/DO-160D:Section 22 RTCA/DO-160E:Section 22 RTCA/DO-160F:Section 22 RTCA/DO-160G:Section 22 excluding waveform 6 DEF STAN 59-41:Part 3:Issue 5: 1995 :DCS10 SPE-J-000-E-1000:Part 2:1991 ESD-EFA-1	A, B
	7 Compass Safe Distance	BS 3G100:Part 2:Section 2:1972 RTCA/DO-160A:Section 15 RTCA/DO-160B:Section 15 RTCA/DO-160C:Section 15 RTCA/DO-160D:Section 15 RTCA/DO-160E:Section 15 RTCA/DO-160F:Section 15 RTCA/DO-160G:Section 15	A, B
	8 Screening Effectiveness Magnetic Field: 10 kHz to 30 MHz Electric Field: 10 kHz to 18 GHz	MIL STD 285:1956 CW tests only	A, B
9 Voltage Variations:  DC Voltage: 0 to 600 V AC Voltage: 0 to 600 V Frequency: 10 Hz to 1 kHz	BS 3G100:Part 3:Section 2:1979 RTCA/DO-160A:Section 16 RTCA/DO-160B:Section 16 RTCA/DO-160C:Section 16 RTCA/DO-160D:Section 16 RTCA/DO-160E:Section 16 RTCA/DO-160F:Section 16 RTCA/DO-160G:Section 16	A, B	



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As listed on Pages 2, 3 and 4	<b>EMC TESTS (cont'd)</b>  9 Voltage Variations: (cont'd)  DC Voltage: 0 to 600 V AC Voltage: 0 to 600 V Frequency: 10 Hz to 1 kHz	MIL STD 704A and notice changes 1966, 1970 and 1973 MIL STD 704C:1977 MIL STD 704D:1980 MIL STD 704E:1991 MIL Std 704F:2004 MIL HANDBOOK 704-1 to 8 2004 MIL HANDBOOK 704-1 to 8 2009 Notice 1 DEF STAN 61-5:Part 2:1978 DEF STAN 61-5:Part 4:1974 DEF STAN 61-5 Part 4 iss 4:2006 DEF STAN 61-5:Part 6:1990 DEF STAN 61-5:Part 6 iss 6 2009 MIL-STD-1399-300A:1987 MIL-STD-1399-300A:1992 Notice 1 MIL STD 1399-300B:2008 MIL-STD-1275B:1997 MIL-STD-1275D:2006 STANAG 1008 ed 8:1994 STANAG 1008 ed 9 2004 Panavia SP-P-90001:Issue 5:1970	A, B
	10 Electromagnetic Compatibility tests on Large equipment	Def Stan 59/41 Part 4 issue 3 1996	B
Note 1: MIL STD 461C,D: Upper frequency limitation 18 GHz; Field strength limitation dependent on sample size			





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	<p><u>Facilities:</u></p> <p>Seven screened enclosures, the largest being: 10 m x 8 m x 3.5 m high</p> <p>Test Samples must pass through a 2.8m square door aperture Maximum length of Test Samples: 8 m</p> <p>Larger items can be tested outside the screened enclosures where the specification is suitable</p>		
	<p><u>Power Supplies:</u></p> <p>28V DC 300A 0-320 V DC 120A</p> <p>AC: 50/60 Hz 125 kVA 415/440V</p> <p>360 Hz to 440 Hz 50-60 kVA and 350-800 Hz 25 kVA</p>		
END			