


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>Accredited to ISO/IEC 17025:2005</p>	<b>TRaC EMC &amp; Safety Limited</b>	
	<b>Issue No: 033</b>	<b>Issue date: 01 November 2009</b>
	<b>Holly Grove Farm</b> <b>Verwood Road</b> <b>Ashley</b> <b>Ringwood</b> <b>Hampshire</b> <b>BH24 2DB</b>	<b>Contact: Mr S Youngman</b> <b>Tel: +44 (0)1425 479979</b> <b>Fax: +44 (0)1425 480637</b> <b>E-Mail: info@tracglobal.com</b> <b>Website: www.tracglobal.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> Holly Grove Farm Verwood Road Ashley Ringwood Hampshire BH24 2DB	<b>Local contact</b> Mr S Youngman  Tel: +44 (0)1425 479979 Fax: +44 (0)1425 480637 Email: info@tracglobal.com Website: www.tracglobal.com	Acoustics Noise Emissions EMC Testing Commercial, Military and Aerospace Short Range Devices  A

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

Location details	Activity	Location code
Any Customer Site	EMC Testing Commercial and Military	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 Components and Equipment	<b>1 EMC TESTS</b>		
Aerospace Structures	1.1 Conducted Emissions	BS 1597:1985	A, B
Agricultural Equipment	20 Hz to 1.3 GHz	BS 7027:1990	B
Batteries and Cells		BS 3G100:Part 4 Section 2:1980	A, B
Ceramics and Products		EN 55011:1991	A, B
Circuit Breakers and Switches		EN 55011:1998	A
Coatings: Metallic		EN 55013:1990	A, B
Composite Materials		EN 55014-1:1993	A
Computers and Peripherals		EN 55015:1993	A
Construction Materials		EN 55015:1987	B
Construction Plant and Equipment		EN 55015:1996 including amendments A1:1997 and A2:1999	A
Construction Products		EN 55022:1987	A, B
Domestic Appliances: Electrical		EN 55022:1998	A
Door Safety Devices		EN 60601-1-2:1993	A
Electrical/Electronic Components		EN 60945:1993:Section 17.3	A
Electrical /Electronic Connectors		EN 60945:1997:Section 17.3	A
Electrical/Electronic Products		FCC CFR Part 15J:1987	B
Electrical Cables		CFR 47 Part 15B:1998	A
Electro-Mechanical Devices		CRF 47 Part 18:1998	A
Enclosures for Electrical Equipment		Lloyds Register Test Spec No. 1:1990	A, B
Engine Components		DEF STAN 59-41:1988 Part 3 Issue 3	A, B
Fans		DEF STAN 59-41 Part 3 Sup A Issue 1:1993	B
Filters and Filter Media		DEF STAN 59-41 Part 3 Sup B Issue 1:1993	B
Fire Fighting and Detection Equipment		DEF STAN 59-41:1995 Issue 5	
Floor coverings: Textile and non-Textile		DCE 01, DCE 02	A, B
Foundry Equipment		DEF STAN 59-41 Part 3, Section 3, Issue 1 :2003	A, B
Furnaces, Kilns and Ovens		DCE 01.3, DCE 02.3	
Gas Appliances		DEF STAN 59-411 Part 3 DCE 01, DCE 02,	A, B
Generators: Electrical		DEF STAN 61-5	A, B
Generators: Power		Part 6:Issue 4:1984	
Generators: Welding		Part 6:Issue 5:1990	
Glass and Products		MIL STD 461-B:1980	A, B
Hoses, Pipes and Tubes		MIL STD 461-C:1986	A, B
Hydraulic Equipment and Fittings		MIL STD 461-D:1993	A
		CE 101, CE 102	
		MIL STD 461-E:1999	A
		CE102	





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Continued from Page 3	<b>1 EMC TESTS (cont'd)</b>		
Power Supplies: Electrical	1.5 Radiated Emissions	BS 833:1970	A, B
Printed Circuit Boards	Electric Field:	BS 6527:1988	A, B
Pumps	20 Hz to 18 GHz	BS7027:1990	B
Radar Equipment		BS 3G100:Part 4:Section 2:1980	A, B
Radio and TV Equipment		EN 55011:1991	A, B
Recreational and Sporting Equipment		EN 55011:1998	A
Rubber and Products		EN 55013:1990	A, B
Safety Appliances and Equipment		EN 55014-1:1993	A
Satellites and Sub-Assemblies		EN 55015:1987	B
Security Devices and Alarms		EN 55015:1993	A
Sonar Equipment		EN 55015: 1996 including amendments A1:1997 and A2:1999	A
Structural Components and Fittings		EN 55022:1987	A, B
Switchboards: Electrical		EN 55022:1998	A
Telecommunication Equipment		EN 60601-1-2:1993	A
Textiles		EN 60945:1993:Section 17.4	A
Tools: Hand		EN 60945:1997:Section 17.4	A
Tools: Machine		FCC CFR Part 15J:1987	B
Toys		CRF 47 Part 15B:1998	A
Transformers: Electrical		CRF 47 Part 18:1998	A
Waste Handling Equipment		VDE 0871:Part 100:1984	A,
Weapons and Sub-Assemblies		Lloyds Register Test Spec No 1: 1990	A, B
Windows		DEF STAN 59-41:1988 Issue 2	A
		DEF STAN 59-41:1988 Part 3 Issue 3	A, B
		DEF STAN 59-41 Part 3 Sup D Issue 1:1993	B
		DEF STAN 59-41 Part 3 Sup E Issue 1:1993	B
		DEF STAN 59-41 Part 3 Sup F Issue 1:1993	B
		DEF STAN 59-41 Part 4 Issue 2: 1998	B
		DEF STAN 59-41:1995 Issue 5	A, B
		DRE 01, DRE 03	
		DEF STAN 59-41 Part 3, Section 3, Issue 1:2003	A, B
		DRE 01.3, DRE 03.3	
		DEF STAN 59-411 Part 3 DRE 01, DRE 03	A
		CSA C108-8M:1983	
		MIL STD 461-B:1980	A, B
		MIL STD 461-C:1986	A, B



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As listed on Pages 2, 3 and 4	<b>1 EMC TESTS (cont'd)</b>		
	1.5 Radiated Emissions Electric Field: 20 Hz to 18 GHz (cont'd)	MIL STD 461-D:1993 RE101, RE102 MIL STD 462:1967 RTCA/DO160B:1988 RTCA/DO 160C:1989 Section 21 RTCA/D 160 E Section 21 AS/NZS 1044:1995 AS/NZS 1053:1999 AS/NZS 2064:1997 AS/NZS 3548:1995 AS/NZS 4051:1998 AS/NZS 4053:1997 excluding TV equipment MVEE 595:1970 DGS 250B:1981 NWS 3:1991 Sp-P-90003:Issue 3:1970 TRG 1068:1991	A A, B A, B A, B A, B A A A A A A A A, B A, B A, B A, B A, B
	1.6 Radiated Emissions Magnetic Field 20 Hz to 30 MHz	DEF STAN 59-41:1998 Issue 3 DEF STAN 59-41:1995 Issue 5 DRE02 DEF STAN 59-41 Part 3, Section 3, Issue 1:2003 DRE 02.3 DEF STAN 59-411 Part 3 DRE 02	A A, B     A
1.7 Conducted susceptibility Power, Control and signal lines Common and Differential Mode 20 Hz to 400 MHz 20 Vrms 1 Amp	BS 7027:1990 BS 3G100:Part 3:1979 IEC 1000-4-6:1995 EN 50141:1993 EN 55020:1988 EN 55020:1995 excluding TV equipment EN 61000-4-6:1996 AZ/NZS 61000-4-6:1999 Bureau Veritas Part III:1991 Chapters 19-25:Clause 9	A, B A, B A A B A A A A, B	







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As listed on Pages 2, 3 and 4	<b>1 EMC TESTS (cont'd)</b>		
	1.8 Radiated Susceptibility Electric Field: 10 kHz to 220 MHz: 10 V/m 200 MHz to 1 GHz: 40 V/m 1 GHz to 2.5 GHz: 25 V/m 2.5 GHz to 18 GHz: 10 V/m (cont'd)	DEF STAN 59-41 Part 3, Section 3, Issue 1:2003 DRS 02.3 DEF STAN 59-411 Part 3 DRS 02 MIL STD 461-B:1980 MIL STD 461-C:1986 MIL STD 461-D:1993 RS101, RS 103 (10 GHz limit) MIL STD 462:1967 DGS 250B:1981 MVEE 595:1970 NWS 3:1981 SP-P90003:Issue 3:1970 SPE-J-000-E-1000:1991	A, B A, B A, B A, B A A, B A, B A, B A, B A, B A, B
	1.9 Radiated Magnetic Field Susceptibility 20 Hz to 30 MHz	DEF STAN 59-41:1988 Issue 3 DEF STAN 59-41:1993 Issue 5 DRS01 DEF STAN 59-41 Part 3, Section 3, Issue 1:2003 DRS 01.3 DEF STAN 59-411 Part 3 DRS 01 EN 61000-4-8:1993 IEC 1000-4-8:1993 RTCA/DO 160D:1997 Section 19 RTCA/DO 160 E Section 19	A, B A, B A, B A, B A A A, B A, B
	1.10 Magnetostatic Field Susceptibility Max EUT size: 1.5 m x 1.5.m x 3.0 m (H) Max Field strength 3000 A/m	DEF STAN 59-41:1988 Issue 3 DEF STAN 59-41:1993 Issue 5 DMFSO1 DEF STAN 59-411 Part 3 DRS 03	A, B A, B A, B



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As listed on Pages 2, 3 and 4	<b>1 EMC TESTS (cont'd)</b>		
	1.11 Fast Transient Burst Susceptibility Up to 5 kV	IEC 801-4:1988 EN 61000-4-4:1995 IEC 1000-4-4:1995 EN 61000-4-4:2004	A, B A A A
	1.12 Surge Susceptibility Common and Differential Mode Up to 6.6 kV	EN 61000-4-5:1995 IEC 1000-4-5:1995 AZ/NZS 61000-4-5:1999	A A A
	1.13 Voltage Dips and Interrupts	EN 61000-4-11:1994 RTCA/DO 160C:1989, Section 16 DC Equipments only excluding digital circuits RTCA/DO 160D:1997, Section 16 DC Equipments only excluding digital circuits RTCA/DO 160 E Section 16	A A A, B A, B
	1.14 Voltage Spike	RTCA/DO 160D:1997 Section 17 RTCA/DO 160E Section 17	A, B A, B
1.15 Electrostatic Discharge Up to 18 kV Air and Contact Discharge	BS 7262:1990 BS 6667:Part 2:1985 IEC 801-2:1984 IEC 801-2:1991 EN 61000-4-2:1995 including Amendments A1 and A2 RTCA/DO 160B:1988 RTCA/DO 160C:1989 RTCA/DO 160D:1997 RTCA/DO 160E:2004 Section 25 DEF STAN 59-41:1995 Part 3 Issue 5 DCS10	A, B A, B A, B A, B A A, B A, B A, B A, B A	



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As listed on Pages 2, 3 and 4	<b>1 EMC TESTS (cont'd)</b>		
	1.15 Electrostatic Discharge Up to 18 kV Air and Contact Discharge (cont'd)	DEF STAN 59-41:2003 Part 3 Section 3, Issue 1 DCS10 DEF STAN 59-411 Part 3 DCS 10	A  A
	1.16 Shielding Effectiveness 20 Hz to 40 GHz	EN 50147-1:1996 MIL STD 285:1956 NSA 65-5:1964	A A, B A, B
	1.17 Insertion Losses of Electrical Filters	BS 613:1977 NSA 65-6:1964	A, B A, B
	1.18 Insertion Loss 150 kHz to 1605 kHz	EN 55015:1993 EN 55015:1998	A A
	1.19 Lightning Indirect Effects Pin Injection Ground Injection Cable Injection Single Stroke/Multiple Stroke Multiple Burst	RTCA DO160D Notice 3 Section 22 RTCA DO160E :2004 Section 22 Boeing D6-16050-5 Version C Sept 2006	A, B  A, B  A, B
	1.20 Compass Safe Distance	BS 3G100:Part 2:Section 2:1972 EN 60945:1997:Part 11.2.2 RTCA/DO 160B:1988 RTCA/DO 160C:1989 RTCA/DO 160D:1997 RTCA DO160E:2004 Section 15 IATA Packing Instruction 902: Jan 1999	A A A A A A A
	1.21 Externally Generated Transients	DEF STAN 59-411 Part 3 DCS 05	A, B



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As listed on Pages 2, 3 and 4	<b>1 EMC TESTS</b> (cont'd)		
	1.22 Imported Long Transient Susceptibility AC and DC Systems	DEF STAN 59-411 Part 3 DCS 06	A, B
	1.23 Imported Lightning Transient Susceptibility (Air Services)	DEF STAN 59-411 Part 3 DCS 09	A,B
	1.24 Generic and Product Family Standards  These generic and product specific tests are included in this Schedule, but limited to those referred basic standards that are explicitly listed in Sections 1.1 to 1.23.	EN 50081-1:1992 EN 50081-2:1994 EN 50082-1:1992 EN 50082-1:1997 EN 50082-2:1995 EN 61000-6-1:2001 EN 61000-6-2:1999 EN 61000-6-2:2001 IEC 61000-6-3:1996 EN 61000-6-3:2001 IEC 61000-6-4:1997 EN 61000-6-4:2001 EN 50165:1997 Sections 19.101.1 to 19.101.8 EN 55104:1995 ETS 300 683:1997 EN 301 489-1:V1.2.1:2000 EN 301 489-3:V1.2.1:2000 EN 55014-2:1997 EN 50133-1:1996 EN 50199:1995 EN 50130-4:1995 EN 61326:1997 EN 61547:1996 EN 61800-3:1997 EN 55103-2:1996 EN 60947-2:1993 EN 55024:1998 prEN 50121-4:1997 including Annex A EN 50065-1:1991 including A1:1993, A2:1995 and A3:1996 Sections 6.2.1, 6.2.2, 6.3.2, 6.3.3, 7.1.2, 7.1.3, 7.2 and 7.3	



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As listed on Pages 2, 3 and 4	<b>1 EMC TESTS</b> (cont'd)  1.24 Generic and Product Family Standards (cont'd)	EN50091-2:1995 EN 50293:2000 AS/NZS 3652:1998 AS/NZS 4251.1:1999 AS/NZS 4251.2:1999 AS/NZS 4252.1:1994 AS/NZS 4780:2000 AS/NZS 3200-1-2:1995	

EMC Test Facilities:

Screened Room No 1: 5 x 4 x 3 high (metres)  
Max size of EUT 3 x 2 x 2 high (metres)  
Max EUT weight 400 kg Bench mounted  
2000 kg Floor mounted

Screened Room No 2: 5.7 x 2.4 x 2.6 high (metres) - Semi-Anechoic  
Max size of EUT 2 x 0.8 x 1.8 high (metres)  
Max EUT weight 400 kg Bench mounted  
1000 kg Floor mounted

Screened Room No 3: 6 x 7.3 x 3 high (metres) - Ferrite Tiled  
Max size of EUT 2 x 3.3 x 2 high (metres)  
Max EUT weight 400 kg Bench mounted  
1500 kg Floor mounted

Screened Room No 4: 3.3 x 2.3 x 2.4 high (metres) - Fully Anechoic  
Max size of EUT 2 x 0.8 x 1.8 high (metres)  
Max EUT weight 400 kg Bench mounted  
1000 kg Floor mounted

Screened Room No 5: 2.5 x 2.5 x 2.5 high (metres)  
Max size of EUT 2 x 0.8 x 1.8 high (metres)  
Max EUT weight 400 kg Bench mounted  
1000 kg Floor mounted

Environmental Chamber 940 x 870 x 775 high (mm)  
Temperature: -20 to +100°C  
Humidity: 20% to 75%

Open area Test Site No 1: 3 metre and 10 metre site

Open Area Test Site No 2: 10 metre range



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EMC Test Facilities: (cont'd)  Power Supplies: 240V 50/60 Hz 85A single phase 415/440V 50.60 Hz 60 kVA Three phase 2-28V DC 250A 2-100V DC 125A 115/208V 400 Hz 6 kVA Three phase			
Item 9 - Compressors Item 25 - Hedge trimmers Item 27 - Jet washers Item 32 - Lawnmowers Item 33 - Lawn trimmer/lawn edge trimmer Item 34 - Leaf blowers Item 35 - Leaf collectors Item 40 - Motor hoe Item 45 - Power generators Item 50 - Shredders Item 56 - Water pumps Item 57 - Welding generators	<p align="center"><b>2 ACOUSTICAL TESTING</b></p> Determination of Noise Emission in the Environment	Directive 2000/14/EC SI 1701:2001	A
<p align="center">END</p>			