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**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

**TRaC EMC & Safety Ltd**

**Issue No: 063 Issue date: 16 March 2011**

Testing performed by the Organisation at the locations specified

<b>Address</b> Unit E South Orbital Trading Park Hedon Road Hull HU9 1NJ	<b>Local contact</b> Mr C Adkin  Tel: +44 (0)1482 801801 Fax: +44 (0)1482 801806 Email: test@tracglobal.com Website: www.tracglobal.com	Electrical Safety Environmental Engineering (Climatic/Dynamic)	F
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**Site activities performed away from the locations listed above:**

Location details	Activity	Location code
Any Customer Premises  <b>Local contact</b> Mr S Hayes  Tel: +44 (0)1684 571700 Fax: +44 (0)1684 571701 Email: test@tracglobal.com Website: www.tracglobal.com	EMC Electrical Safety Acoustics; Noise Emissions	E



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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 Circuit Breakers/Switches Computers and Peripherals Domestic Appliances Electrical/Electronic Components Electrical/Electronic Products Electric Cables Electrically Driven Wheelchairs Electro-Mechanical Devices Fans Fire Fighting and Detection Equipment Generators, Electrical Instruments, Indicating/ Recording IT Equipment Lamps, Electrical Luminaries Magnetic Materials Marine Equipment Measuring Equipment Medical Equipment Micro Electronic Circuits and Components Motors, Electrical Office Equipment: Electrical, Optical, and Photometric Equipment Plugs and Sockets: Electrical Power Supplies: Electrical Radio and TV Equipment Security Devices and Alarms Telecoms Equipment Toys	<b>1 EMC TESTS</b>  <b>1.1 CIVIL EMC TESTS</b>  1.1.1 Conducted Emissions:  Power Leads: 9 kHz to 30 MHz	BS 7027:1990 BS 905:Part 1:1991 BS 1597:1985 CISPR 11:2003 including Amendment A1:2004 & A2:2006 CISPR 22:1993 EN 55011:1991 EN 55011:2007 including Amendment A2:2007 FCC CFR 47:Part 18 EN 55013:1990 EN 55014:1993 EN 55014-1:2000 including Amendment A1:2001 and A2:2002 EN 55015:1987 and 1996 CISPR 15:2005 Ed 7.0 including Amendment A1:2006 & A2:2009 CISPR 15:2009 Ed 7.2 EN 55015:2006 including Amendment A1:2007 EN 55022:1994 and 1998 FCC CFR 47:Part 15B ANSI C63.4:2003 AS/NZS 1044:1995 AS/NZS 1053:1999 AS/NZS 2064:1997 AS/NZS 3548:1995 AS/NZS 4051:1998 AS/NZS 4052:1992 AS/NZS 4053:1992 AS/NZS 4053:1997 excluding TV equipment AS/NZS CISPR 11:2004 AS/NZS CISPR 15:2006 Documented TRL Procedure STP04, Issue 4:1998 ICES-001:Issue 4:2006 ICES-005 Issue 2:2007	A, B, C, E



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As listed on Page 3	<b>1 EMC TESTS</b> (cont'd)		
	<b>1.1 CIVIL EMC TESTS</b> (cont'd)		
	1.1.2 Conducted Emissions:  Signal and Control Lines: 9 kHz to 30 MHz	BS 1597:1985 CISPR 22:1988, 1993 and 1994 EN 55011:1991 CISPR 11:2003 including Amendment A1:2004 & A2:2006 EN 55011:2007 including Amendment A2:2007 FCC CFR 47 Part 15B FCC CFR 47:Part 18 EN 50065-1:1991 and 1992 EN 55022:1988 and 1994 EN 55022:1998 including ISDN ports where CDNs can be used EN 60945:1997 Section 17.3 AS/NZS 1044:1995 AS/NZS 1053:1999 AS/NZS 2064:1997 AS/NZS 3548:1995 AS/NZS 4051:1998 AS/NZS 4052:1992 AS/NZS 4053:1992 AS/NZS 4053:1997 excluding TV equipment	A, B, C
	1.1.3 Conducted Current Harmonics (Emissions): Measurements up to 40 <sup>th</sup> Harmonic	AS/NZS 61000-3-2:1998 EN 61000-3-2:1995 EN 60555-2:1987 EN 61000-3-2:2000 EN 61000-3-2:2006 IEC 61000-3-2:2009 Ed 3.2	A, B, C
1.1.4 Conducted AC Mains Flicker (Emissions):	AS/NZS 61000-3-3:1998 AS/NZS 61000-3-5:1994 EN 60555-3:1987 EN 61000-3-3:1995 including Amendment A1:2001 and A2:2005 EN 61000-3-3:2008	A, B, C	



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As listed on Page 3	<b>1 EMC TESTS (cont'd)</b>  <b>1.1 CIVIL EMC TESTS (cont'd)</b>  1.1.5 Radiated Emissions: Magnetic Field 9 kHz to 30 MHz	CISPR 11:2003 including Amendment A1:2004 & A2:2006 EN 55011:1991 EN 55011:2007 including Amendment A2:2007 FCC CFR 47:Part 18 AS/NZS 1044:1995 AS/NZS 1053:1999 AS/NZS 2064:1997 AS/NZS 3548:1995 AS/NZS 4051:1998 AS/NZS 4052:1992 AS/NZS 4053:1992 AS/NZS 4053:1997 excluding TV equipment AS/NZS CISPR 11:2004 Documented TRL Procedure STP05 Issue 4:1998 ICES-001:Issue4:2006	A, B, C, E
	1.1.6 Radiated Emissions Electric Field 30 MHz to 18 GHz	BS 833:1970 BS 1597:1985 BS 6527:1988 BS 7027:1990 CISPR 11 2003 including Amendment A1:2004 & A2:2006 CISPR 12:1985 CISPR 22:1993 and 1994 EN 55011:1991 and 1992 EN 55011:2007 including Amendment A2:2007 FCC CFR 47:Part 18 EN 55012:1985 EN 55014:1993 EN 55014-1:2000 including Amendment A1:2001 & A2:2002 EN 55015:1987 and 1996 CISPR 15:2005 Ed 7.0 including Amendment A1:2006 & A2:2009	A, B, C, E



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As listed on Page 3	<b>1 EMC TESTS (cont'd)</b>  <b>1.1 CIVIL EMC TESTS (cont'd)</b>  1.1.6 Radiated Emissions Electric Field 30 MHz to 18 GHz (cont'd)	EN 55015:2006 including Amendment A1:2007 CISPR 15:2009 Ed 7.2 EN 55022:1994 and 1998 EN 60945:1997 Section 17.4 FCC CFR 47:Part 15B ANSI C63.4:2003 RIA 18:1990 AS/NZS 1044:1995 AS/NZS 1053:1999 AS/NZS 2064:1997 AS/NZS 3548:1995 AS/NZS 4051:1998 AS/NZS 4052:1992 AS/NZS 4053:1992 AS/NZS 4053:1997 excluding TV equipment AS/NZS CISPR 11:2004 AS/NZS CISPR 15:2006 BOEING D6-16050:Para 8.4 Documented TRL Procedure STP06 Issue 5:1998 ICES-001:Issue 4:2006 ICES-005 Issue 2:2007	A, B, C, E
	1.1.7 Electrostatic Discharge Immunity	BS 6667-2:1985 IEC 801-2:1994 IEC 801-2:1991 IEC 801-2:1984 IEC 1000-4-2:1995 EN 55101-2:1992 EN 61000-4-2:1995 including Amendments A1:1998 and A2:2001 prETS RES 0902:1992 AS/NZS 4251:1994 AS/NZS 4252:1994 Documented In-House Procedure STP11 Issue 4:1998	A, B, C, E



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As listed on Page 3	<b>1 EMC TESTS (cont'd)</b>  <b>1.1 CIVIL EMC TESTS (cont'd)</b>  1.1.8 Radio Frequency Susceptibility Magnetic Field DC and 10 Hz to 50 kHz 500 A/m	EN 61000-4-8:1994 including Amendment A1:2001 EN 61000-4-9:1994 including Amendment A1:2001 IEC 1000-4-8:1993 IEC 1000-4-9:1993 AS/NZS 4252.1:1994	A, B, C
	1.1.9 Radio Frequency Susceptibility Electric Field 14 kHz to 2.5 GHz 100 V/m maximum	BS 6667-3:1985 IEC 801-3:1984 IEC 801-3:Draft 7:Aug 1992 IEC 1000-4-3:1995 EN 61000-4-3:1996 EN 61000-4-3:2002 including amendment A1:2002 DD ENV 50140:1994 ENV 50204:1995 AS/NZS 4251.1:1994 AS/NZS 4252.1:1994 Documented TRL Procedure STP14 Issue 1:1998	A, B, C, E
	<b>NOTE: Radiated Immunity Tests</b>  These tests must normally be carried out in a screened enclosure, or other arrangements made to prevent contravention of the Wireless Communications Act.		
	1.1.10 Fast Transient/Burst Immunity: 0.25 kV to 5.0 kV Positive and Negative Polarity 5 ns rise time, 10 ns duration 15 or 75 ms burst duration	IEC 801-4:1988 IEC 1000-4-4:1995 EN 61000-4-4:1995 EN 61000-4-4:2004 excluding 100 kHz repetition rate Documented TRL Procedure STP09 Issue 4:1998	A, B, C, E



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As listed on Page 3	<b>1 EMC TESTS (cont'd)</b>  <b>1.1 CIVIL EMC TESTS (cont'd)</b>  1.1.11 Surge Immunity Waveforms: 0.2 kV to 6.6 kV 1.2/50 (8/20) µs Common mode Differential mode	ENV 50142:1994 DD ENV 50142:1995 EN 61000-4-5:1995 including Amendment A1:2001 EN 61000-4-5:2006 IEC 1000-4-5:1995 IEC 801-5 (draft):1990 Documented TRL Procedure STP10 Issue 4:1998	A, B, C, E
	1.1.12 Conducted Susceptibility CW, Transients and Magnetic Field 20 Hz to 230 MHz 20 V rms	prEN 50093:1992 DD ENV 50141:1994 ENV 50141:1993 IEC 601-1-2:1993 IEC 801-6:1990 EN 61000-4-6:1996 including Amendment A1:2001 EN 61000-4-6:2007 RIA 12:1984 RIA 18:1990 AS/NZS 4251.1:1994 AS/NZS 61000-4-6:1999 Documented TRL Procedure STP08 Issue 5:1998	A, B, C, E
	NOTE: Conducted Immunity Tests  These tests must normally be carried out in a screened enclosure, or other arrangements made to prevent contravention of the Wireless Communications Act.		
	1.1.13 Voltage Dips, Interruptions and Voltage Variations	EN 61000-4-11:1994 IEC 1000-4-11:1994 EN 61000-4-11:2004	A, B, C



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As listed on Page 3	<b>1 EMC TESTS (cont'd)</b>  <b>1.1 CIVIL EMC TESTS (cont'd)</b>  1.1.14 Site Surveys Conducted Emissions Radiated E-Field Radiated H-Field	Documented TRL Procedure STP13 Issue 1:1994	A, B, C, E
	1.1.15 EMC Tests  These Generic and Product specific standards are included in this schedule, but limited to those referred basic standards that are explicitly listed in Sections 1.1.1 to 1.1.14.	BS 7027:1990 BS 7262:1990 CSA C108-8M:1983 FCC CFR Part 15J IEC 601-1-2:1993 EN 60601-1-2:2001 EN 60601-1-2:2007 IEC 60601-1-2:2007 Ed 3.0 EN 12184:1999 EN 12184:2006 EN 50081-1:1992 EN 50081-2:1993 and 1994 EN 50082-1:1992 EN 50082-2:1995 EN 50091-2:1995 EN 55024:1998 EN 55103-1:1996 <sup>1</sup> EN 55103-2:1996 <sup>1</sup> excluding TV and video products EN 50121-2:2000 EN 50121-3:2000, when tests applied to sub-assemblies only EN 50121-4:2000 <sup>2</sup> EN 50121-5:2000 <sup>2</sup> <sup>2</sup> excluding traction frequency tests EN 50165:1997 Sections 19.101.1 to 19.101.8 EN 50199:1995 EN 50130-4:1995 including A1:1998 and A2:2003 EN 50270:1999 EN 50293:2000 EN 55014-2:1997 including Amendment A1:2001 EN 60601-1-2:1993	A, B, C, E



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As listed on Page 3	<p><b>1 EMC TESTS</b> (cont'd)</p> <p><b>1.1 CIVIL EMC TESTS</b> (cont'd)</p> <p>1.1.15 EMC Tests (cont'd)</p>	<p>EN 61000-6-1:2001 EN 61000-6-1:2007 EN 61000-6-2:2001 EN 61000-6-2:2005 EN 61000-6-3:2001 including A11:2004 EN 61000-6-3:2007 AS/NZS 61000-6-3:2007 EN 61000-6-4:2001 EN 61000-6-4:2007 AS/NZS 61000-6-4:2007 EN 61800-3:1996 EN 61326:1997 including A1:1998 EN 61326-1:2006 EN 61326-2-1:2006 EN 61326-2-2:2006 EN 61326-2-3:2006 EN 61326-2-4:2006 EN 61326-2-5:2006 EN 61326-2-6:2006 IEC 61326-1:2005 EN 61547:1995 including A1:2000 EN 61800-3:1996 excluding "walkie talkie" tests Lloyds Register Test Spec No.1:1990 TRG 1068:1991 VDE 0871:1984 Part 100 ETS 300 279:1996 ETS 300 339:1998 ETS 300 342-1:1997 ETS 300 342-2:1994 prETS 300 385:1903 ETS 300 680-1:1997 ETS 300 680-2:1997 ETS 300 682:1997 ETS 300 683:1997 EN 301 489-1:V1.4.1:2002 EN 301 489-2:V1.3.1:2002 EN 301 489-3:V1.4.1:2002 EN 301 489-4:V1.3.1:2002 EN 301 489-5:V1.3.1:2002</p>	A, B, C, E



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As listed on Page 3	<p><b>1 EMC TESTS</b> (cont'd)</p> <p><b>1.1 CIVIL EMC TESTS</b> (cont'd)</p> <p>1.1.15 EMC Tests (cont'd)</p> <p>Note: International Standards, EN, ENV and IEC, listed in this Schedule, that have been adopted nationally as BS EN DD ENV and BS IEC and are technically identical, can be considered as being included in this Schedule.</p>	<p>EN 301 489-6:V1.2.1:2002 EN 301 489-7:V1.2.1:2002 EN 301 489-9:V1.3.1:2002 EN 301 489-11:V1.2.1:2002 EN 301 489-15:V1.1.1:2002</p>	A, B, C, E
Coating, Metallic Composite Materials Enclosures for Electrical Equipment Insulating Materials: Electrical	1.1.16 Shielding Effectiveness 10 kHz to 18 GHz	ASTM E57:1983 EN 50147-1:1996 MIL STD 285:1956 NSA 65-5:1964	A, B, C, E
	1.1.17 Insertion Losses of Electrical Filters	BS 613:1977 NSA 65-6:1964	A, B, C, E
	1.1.18 Compass Safe Distance	EN 60945:1997 Section 11.2.2	A, B, C
As listed on Page 3	<p><b>1.2 MILITARY AND AEROSPACE EMC TESTS</b></p> <p>1.2.1 Conducted Emissions:</p> <p>Power, Control and Signal Leads: DC to 400 MHz</p> <p>Antenna Terminals 10 kHz to 18 GHz</p>	<p>BS 3G100 Part 4 Section 2:1980 RTCA /DO-160B:1988 RTCA/DO-160C:1989 RTCA/DO-160D:1997 Section 21 RTCA/DO-160E Section 21 RTCA/DO-160F Section 21 MVEE 595:1970 DGS 250B:1981 SP-P-90003 Issue 3:1970 MIL STD 461 B:1980 MIL STD 462:1967</p>	A, C, E



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As listed on Page 3	<b>1 EMC TESTS (cont'd)</b>  <b>1.2 <u>MILITARY AND AEROSPACE EMC TESTS</u></b>  1.2.1 Conducted Emissions: (cont'd)  Power, Control and Signal Leads: DC to 400 MHz  Antenna Terminals 10 kHz to 18 GHz	MIL STD 461C, CE01, CE02, CE03, CE04 and CE07 MIL STD 461D, E and F CE101, CE102, CE03 and CE04 DEF STAN 59-41:Issue 3 and 5 DCE01 and DCE02 DEF STAN 59-41:Part 3, Section 2, Issue 2:1999, DCE01 and DCE 02 Def Stan 59-411 Part 3 inc A1 DCE01 and DCE 02 DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DCE01, DCE02 and DCE03 MIL STD 461D, E and F CE106 DEF STAN 59-411:Part 4:2007 Inc A1 DCE01 and DCE02	A, C, E
	1.2.2 Radiated Emissions: Electric Field: 20 Hz to 18 GHz	BS 3G100 Part 4 Section 2:1980 MVEE 595:1970 DGS 250B:1981 SP-P-90003 Issue 3:1970 NWS 3:1991 MIL STD 461B:1980 MIL STD 461C:1986 MIL STD 461C, RE02 MIL STD 461D, E and F RE101, RE102, and RE103 MIL STD 462:1967 DEF STAN 59-41:1988 Issue 2 DEF STAN 59-41:1988 Part 3 iss 3 DEF STAN 59-41:1993 Part 3 iss 1 DRE01, DRE02 and DRE03 DEF STAN 59-41:1998 Part 4 iss 2 DEF STAN 59-41:Issue 3 and 5, DRE01 and DRE03	A, C, E



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As listed on Page 3	<b>1 EMC TESTS</b> (cont'd)  <b>1.2 <u>MILITARY AND AEROSPACE EMC TESTS</u></b> (cont'd)  1.2.2 Radiated Emissions: Electric Field: (cont'd)	DEF STAN 59-41:Part 3, Section 2, Issue 2:1999 DRE01 DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DRE01.3 and DRE03.3 Def Stan 59-411 Part 3 inc A1 DRE01 and DRE03 RTCA/DO160B:1988 RTCA/DO160C, D,E & F Section 21 DEF STAN 59-411 Part 3 DRE01 and DRE03 DEF STAN 59-411:Part 4:2007 inc A1 DRE01, DRE03 and DRE04	A, C, E
	1.2.3 Radiated Emissions: Magnetic Field: 20 Hz to 30 MHz	MIL STD 461C, RE01, RE04 MIL STD 461D, E and F RE101 DEF STAN 59-41:1998 Issue 3 DEF STAN 59-41:Issue 3 and 5, DRE02 DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DRE02.3 DEF STAN 59-411 Part 3 inc A1 DRE02	A, C, E
	1.2.4 Exported Transients Power Lines	DEF STAN 59-41:Issue 3 and 5, DCE03 DEF STAN 59-41 Part 3 Iss 1:1993 DCE03 DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DCE03.3 DEF STAN 59-411 Part 3 inc A1 DCE03	A, C, E



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As listed on Page 3	<p><b>1 EMC TESTS</b> (cont'd)</p> <p><b>1.2 <u>MILITARY AND AEROSPACE EMC TESTS</u></b> (cont'd)</p> <p>1.2.5 Radiated Susceptibility: Electric Field: 14 kHz to 18 GHz Maximum Field Strength: 200 V/m</p>	<p>BS 3G100 Part 4 Section 2:1980 Bureau Veritas Part III:1991 Chapters 19 - 25, Clause 8 MIL STD 461B:1980 MIL STD 461C, RS03 MIL STD 461D, E and F RS101 and RS103 MIL STD 462:1967 DEF STAN 59-41:Issue 3 and 5, DRS02 DEF STAN 59-41 Part 3 Iss 1:1993 DRS02 DEF STAN 59-41:Part 3, Section 2, Issue 2:1999 DRS02 DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DRS02.3 DEF STAN 59-411 Part 3 inc A1 DRS02 RTCA/DO-160B, C, D,E &amp; F: Sections 19, 20 and Change Notice 2 BOEING D6-16050:para 7.3 DEF STAN 59-411:Part 4:2007 Inc A1 Low Level Swept Current DEF STAN 59-411:Part 4:2007 Inc A1 DRS02 DGS 250B:1981 MVEE 595:1970 NWS 3:1981 SPE-J-000-E-1000:1991 SP-P-90003 Issue 3:1970</p>	A, C, E



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As listed on Page 3	<b>1 EMC TESTS</b> (cont'd)  <b>1.2 <u>MILITARY AND AEROSPACE EMC TESTS</u></b> (cont'd)  1.2.6 Radiated Susceptibility: Magnetic Field: 20 Hz to 100 kHz Maximum Field Strength: 170 dBV	MIL STD 461C, RS01 and RS02 MIL STD 461D, E and F RS101 DEF STAN 59-41 Part 3 Iss 1:1993 DRS01 DEF STAN 59-41:1988 Issue 3 DEF STAN 59-41:Issue 3 and 5, DRS01 DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DRS01.3 DEF STAN 59-411 Part 3 inc A1 DRS01 RTCA/DO-160D, E & F Section 19	A, C, E
	1.2.7 Magnetostatic Field Susceptibility	DEF STAN 59-41:1988 Issue 3 DEF STAN 59-41 Part 3 Iss 1:1993 DMFS01 DEF STAN 59-41:Issue 3 and 5, DMFS01 and DRS03 DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DRS03 DEF STAN 59-411:Part 3 inc A1 DRS03	A, C, E
	1.2.8 Conducted Susceptibility: Inter and Cross Modulation and Rejection of Unwanted Signals: 10 kHz to 400 MHz	MIL STD 461D, E and F CS103, CS104 and CS105	A, C



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As listed on Page 3	<p><b>1 EMC TESTS</b> (cont'd)</p> <p><b>1.2 <u>MILITARY AND AEROSPACE EMC TESTS</u></b> (cont'd)</p> <p>1.2.9 Conducted Susceptibility: Power, Control and Signal Lines including Bulk Current Injection 20 Hz to 400 MHz Maximum current: 2 A</p>	<p>BS 3G100 Part 3:1979 Bureau Veritas Part III:1991 Chapters 19 - 25, Clause 9 MIL STD 461B:1980 MIL STD 461C, CS02 MIL STD 461D, E and F CS101 and CS114 MIL STD 462:1967 DEF STAN 61-5 Part 6: Iss 4:1984 and Part 6: Issue 5:1990 DEF STAN 61-5 Part 6: Iss 6:2009 Det 01A, Det 02A, Det 03A, Det 04A, Det 05A, Det 06A, Det 07A, Det 08A Dit 01A, Dit 02A, Dit 03A, Dit 04A DEF STAN 59-41:1998 Issue 3 DEF STAN 59-41:Issue 3 and 5, DCS01, DCS02, DCS03, DCS05 and DCS06 DEF STAN 59-41:Part 3, Section 2, Issue 2:1999 DCS02 and DCS03 DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DCS02, DCS03, DCS05 and DCS06 DEF STAN 59-41 Part 3:Iss 1:1993 DCS01, DCS02 and DCS06 DEF STAN 59-41 Part 3 Section 3 Issue 1:2003 DCS01.3, DCS02.3 and DCS03.3 DEF STAN 59-411 Part 3 inc A1 DCS01, DCS02 and DCS03 RTCA/DO-160B, C, D, E &amp; F: Sections 18, 19, 20 and Change Notice 2 DEF STAN 59-411:Part 4:2007 Inc A1 High level bulk current injection DGS 250B:1981 SPE-J-000-E-1000:1991</p>	A, C, E



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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 Page 3	<b>1 EMC TESTS</b> (cont'd)  <b>1.2 <u>MILITARY AND AEROSPACE EMC TESTS</u></b> (cont'd)  1.2.9 Conducted Susceptibility: (cont'd)	SP-P-90003 Issue 3:1970 TS 1527 Issue 2:1976	
	1.2.10 Conducted Susceptibility Transients	MIL STD 461C, CS06 MIL STD 461D, E and F CS115 and CS116 DEF STAN 59-41:Issue 3 and 5, DCS04, DCS05, DCS06, DCS07 and DCS08 DEF STAN 59-41:Part 3, Section 2, Issue 2:1999 DCS05 and DCS06 DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DCS04, DCS05, DCS06, DCS08 and DCS12 DEF STAN 59-411 Part 3 inc A1 DCS 04, DCS 05, DCS 06, DCS 08, DCS 09 and DCS 12 DEF STAN 59-411:Part 4:2007 Inc A1 DCS05 and DCS06 RTCA/DO-160C, D, E & F: Sections 17 and 19	A, C, E
	1.2.11 Conducted Susceptibility: Primary Power Lines, 20 Hz - 50 kHz	MIL STD 461D, E and F CS101 MIL STD 461C, CS01 DEF STAN 59-41:Issue 3 and 5, DCS01 DEF STAN 59-41:Part 3, Section 2, Issue 2:1999 DCS01 DEF STAN 59-411:Part 4:2007 Inc A1 DCS01	A, C



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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 Page 3	<b>1 EMC TESTS</b> (cont'd)		
	<b>1.2 <u>MILITARY AND AEROSPACE EMC TESTS</u></b> (cont'd)		
	1.2.11 Conducted Susceptibility: (cont'd)	DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DCS01 Def Stan 59-411 Part 3 inc A1 DCS01 RTCA/DO-160C, D, E & F: Section 18	
	1.2.12 Electrostatic Discharge	DEF STAN 59-41:Issue 3 and 5, DCS10 DEF STAN 59-41:Part 3 Issue 5 DCS10 DEF STAN 59-41:Part 3, Section 2, Issue 2:1999 DCS10 DEF STAN 59-41 Part 3, Section 3, Issue 1:2003 DCS10.3 DEF STAN 59-411 Part 3 DCS10 RTCA/DO-160B, C, D, E & F Section 25 DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DCS10 DEF STAN 59-411:Part 3 inc A1	A, C, E
	1.2.13 Compass Safe Distance	BS 3G100 Part 2, Section 2:1972 RTCA/DO-160B, C, D, E & F Section 15 IATA Packing Instruction 902:1999	A, C
1.2.14 Power Input Checks and 28 V DC Electrical Systems in Military Vehicles	DEF STAN 61-5:Issue 5 MIL STD 1275B RTCA/DO-160C, D, E & F: Section 16	A, C	



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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 Page 3	<p><b>1 EMC TESTS</b> (cont'd)</p> <p><b>1.2 <u>MILITARY AND AEROSPACE EMC TESTS</u></b> (cont'd)</p> <p>1.2.15 Lightning Effects</p>	<p>RTCA/DO-160C, D, E &amp; F: Section 22 BOEING D6-16050:Section 7.4</p>	A, C, E
	<p><b>1.3 <u>AUTOMOTIVE EMC TESTS</u></b></p> <p>1.3.1 Radiated Emissions 9 kHz to 18 GHz Components / ESA (whole vehicle only at Location A)</p>	<p>CISPR 12:2001 CISPR 25:2002 2004/104/EC, Annexes IV, V, VII and VIII 2005/83/EC</p>	A, B, C
	<p>1.3.2 Radiated Immunity Absorption Chamber 400 MHz - 10 GHz at 200 V/m Components / ESA (whole vehicle only at Location A)</p>	<p>ISO 11452-1:2005 ISO 11452-2:2004, substitution method ISO 11451-1:2003 ISO 11451-2:2004 2004/104/EC Annexes VI, IX 2005/83/EC</p>	A, B, C
	<p>1.3.3 Conducted Immunity BCI 1 MHz to 400 MHz</p>	<p>ISO 11452-1:2005 ISO 11452-4:2005, substitution method 2004/104/EC Annexes IX 2005/83/EC</p>	A, B, C
	<p>1.3.4 Vehicular Transient Testing 12 and 24 v Emissions and Immunity Components / ESA (whole vehicle only at Location A)</p>	<p>ISO 7637-1:1990 ISO 7637-2:1990 ISO 7637-2:2004, pulses 1, 2a, 2b, 3a, 3b and 4 only 2004/104/EC Annexes X 2005/83/EC</p>	A, B, C



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Domestic Electronic Equipment	<b>2 SAFETY TESTS</b> Electrical Safety	EN 60065:2002 including Amendments A1 + A11 Excluding:- 6.2 (laser radiation test) 8.22 (thin sheet insulation test) 12.3 (cable connected remote control devices) 12.5 (coax sockets, including on TV receivers) 14 (components) 18 (cathode ray tubes)	D, E, F
Domestic Electrical Equipment	Electrical Safety	EN 60335-1:2002	D, E
Skin or Hair Care Appliances (excluding heated curlers, helmet type, flexible hood, fixed hairdryers and those with a swivel cord connector)	Electrical Safety	EN 60335-2-23:2003	D, E
Room Heaters	Electrical Safety	EN 60335-2-30:1997 (Withdrawn)	D, E
Wet and Dry Vacuum Cleaners (excluding floor scrubbing apparatus)	Electrical Safety	EN 60335-2-69:1998 including Amendment A1:2000 (Withdrawn)	D, E
Automatic Machines for Floor Treatment	Electrical Safety	EN 60335-2-72:1998 excluding ride-on machines excluding impact test Clause 22.35 (Withdrawn)	D, E
Vending Machines (excluding food and drink dispensers)	Electrical Safety	IEC 335-2-75:1995 (Withdrawn)	D, E



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
High Pressure Cleaners and Steam Cleaners for Industrial and Commercial Use (excluding other fuels and impact tests on pressurised ports)	<b>2 SAFETY TESTS</b> (cont'd) Electrical Safety	IEC 335-2-79:1995 (Withdrawn)	D, E
Fans	Electrical Safety	EN 60335-2-80:1997 (Withdrawn)	D, E
Service and Amusement Machines (excluding Kiddie Rides and equipment intended for outdoor use)	Electrical Safety	EN 60335-2-82:2000 (Withdrawn)	D, E
IT Equipment and Electrical Office Equipment	Electrical Safety	EN 60950-1:2006 including Amendments A11 + A1, Excluding:- 4.2.8 (CRTs) 4.3.13 (lasers) Annex T (water ingress tests) Annex U (insulated winding wire) Annex Y (UV conditioning) Annex AA (mandrel test) Annex CC (IC current limiters) Annex EE (shredders) EN 60950-1:2001 including Amendment A11:2004 AS/NZS 60950.1:2003	D, E, F



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Measurement and Control Equipment	<b>2 SAFETY TESTS</b> (cont'd)  Electrical Safety	EN 61010-1:2001 EN 61010-1:2010 AS 61010.1:2003 UL 61010A-1:2002 Excluding:- 11.6 (testing in accordance with IEC 529) 11.7 (fluid pressure and leakage) 12.2.1 (ionising radiation) 12.3 (UV radiation) 12.4 (microwave radiation) 12.5.1 (sound level) 12.5.2 (ultrasonic pressure) 12.6 (laser sources) 14.1(d) (components, non-IEC standards compliance)	D, E, F
Automatic and semi-automatic laboratory equipment for analysis	Electrical Safety	EN 61010-2-081:2002 including Amendment A1:2003	D, E
In vitro diagnostic (IVD) medical equipment	Electrical Safety	EN 61010-2-101:2002	D, E
Medical Electrical Equipment, except those intended for oxygen-rich environment, use with flammable anaesthetics, and programmable electrical medical systems (PEMS)	Electrical safety	EN 60601-1:1990 + Amendment A13 EN.60601-1:2006 Excluding:- 8.5.5 (defibrillation-proof applied parts) 8.8.4.2 (environmental stress) 9.6.2.1 (noise measurement) 9.6.3 (hand transmitted vibration) 9.7.5 (pressure tests) 10.4 (laser and LED emissions) 11.6.7 (sterilization) 11.7 (biocompatibility) 12.4.5 (diagnostic or therapeutic radiation) 15.3.4 (lithium batteries)	D, E



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Medical Electrical Equipment, except those intended for oxygen-rich environment, use with flammable anaesthetics, and programmable electrical medical systems (PEMS) (cont'd)	<b>2 SAFETY TESTS</b> (cont'd)  Electrical safety (cont'd)	EN 60601-1:1990 + Amendment A13 EN.60601-1:2006 Excluding:- (cont'd)  15.4.7.1 (mechanical strength of foot-operated parts) Annex L (insulated winding wire)	D, E
Information Technology Equipment Equipment Installed Outdoors	Electrical Safety	IEC 60950-22:2005 EN 60950-22:2006 excluding the following: Clause 7: Wiring terminals, relating to IEC 60364 Clause 8.2: Resistance to UV relating to Table 1 Clause 8.3: Resistance to Corrosion Clause 8.5: Gaskets Clause 9.2: Protection from plants and vermin Clause 9.3: Protection from excessive dust Clause 11: Outdoor equipment containing vented batteries Clause A: Water - saturated sulphur dioxide atmosphere Clause B: Water spray test Clause C: UV light conditioning Test Clause D: Gasket tests	F
	<u>Note:</u>  Where EN Standards have exact equivalents in IEC, or BS EN Standards, these are also included in the accreditation.		



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Electrical and Non-Electrical Apparatus, Systems, Components, Accessories and Enclosures for use in Potentially Explosive Atmospheres	<b>3 EX PRODUCT TESTS</b>		
Electrical apparatus for explosive gas atmospheres General requirements	Construction, safety and marking  Thermal Stability min temp - 70 °C max temp 200 °C	IEC 60079-0:2007 EN 60079-0:2006 IEC 60079-0:2004	B
Tests for Flameproof equipment (Exd)	Construction, safety and marking	IEC 60079-1:2007	B
Tests for Purged and Pressurised equipment (Exp)	Construction, safety and marking	IEC 60079-2:2007	B
Tests for Increased Safety Apparatus (Exe)	Construction, safety and marking	IEC 60079-7:2006	B
Tests for Intrinsically Safe Apparatus, Associated Apparatus and Systems (Exi)	Construction, safety and marking	IEC 60079-11:2006	B
Tests for Electrical Apparatus for Explosive Atmospheres with Type of Protection n (Exn)	Construction, safety and marking	IEC 60079-15:2005	B
Tests for Encapsulated equipment (Exm)	Construction, safety and marking	IEC 60079-18:2004	B
Equipment with equipment protection level (EPL) Ga	Construction, safety and marking	IEC 60079-26:2007	B



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Electrical and Non-Electrical Apparatus, Systems, Components, Accessories and Enclosures for use in Potentially Explosive Atmospheres (cont'd)  Protection by enclosure "tD"	<b>3 EX PRODUCT TESTS</b> (cont'd)  Construction, safety and marking	IEC 60079-31:2008	B
Tests for Electrical Apparatus with Protection by Enclosure for use in the presence of Combustible Dusts General requirements	Construction, safety and marking	IEC 61241-0:2004	B
Tests for Electrical Apparatus with Protection by Enclosure for use in the presence of Combustible Dusts Protection by enclosure "tD"	Construction, safety and marking	IEC 61241-1:2004 Excluding: Practice B	B
Tests for Purged and Pressurised equipment (Exp) Enclosure for use in the presence of Combustible Dusts	Construction, safety and marking	IEC 61241-4:2001	B
Tests for Encapsulated equipment for use in the presence of Combustible Dusts (ExmD)	Construction, safety and marking	IEC 61241-18:2004	B
Protection by intrinsic safety "iD"	Construction, safety and marking	IEC 61241-11:2005	B
Basic Methods and Requirements	Construction, safety and marking	EN 13463-1:2001	B



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Electrical and Non-Electrical Apparatus, Systems, Components, Accessories and Enclosures for use in Potentially Explosive Atmospheres (cont'd)	<b>3 EX PRODUCT TESTS</b> (cont'd)		
Constructural safety 'c'	Construction, safety and marking	EN 13463-5:2003	B
Protection by liquid immersion "k"	Construction, safety and marking	EN 13463-8:2003	B
Environmental Conditions and test procedures for Airborne Equipment	Explosion Testing Explosive Atmospheres	RTCA DO-160F Section 9  General exclusions to Ex tests  (a) HV machines operating at >1000V e.g. motors and transformers;  (b) Shock and Vibration tests;  (c) UV light testing;  (d) Specific tests on luminaires: torque tests (clause 5.3); asymmetric pulse test (Annex H); sulphur dioxide test (clause 6.3).	B
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Enclosures for Electrical Equipment	<p><b>4 INGRESS PROTECTION TESTS</b></p> <p>IP1X Protected against solid objects greater than 50 mm diameter</p> <p>IP2X Protected against solid objects greater than 12 mm diameter</p> <p>IP3X Protected against solid objects greater than 2.5 mm diameter</p> <p>IP4X Protected against solid objects greater than 1.0 mm diameter</p> <p>IP5X Dust Protected Excluding: Objects greater than 2500 x 2500 x 2500 mm Max weight: 800 kg</p> <p>IP6X Dust Tight Excluding: Objects greater than 2500 x 2500 x 2500 mm Max weight: 800 kg</p> <p>IPX3 Protected against spraying water</p> <p>IPX4 Protected against splashing water</p> <p>IPX5 Protected against water jets</p> <p>IPX6 Protected against heavy seas</p>	IEC 60529:2001, Amd 1	B

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
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><b>5 ACOUSTICAL TESTS</b></p> <p>Determination of Noise Emission in the Environment</p>	<p>Directive 2000/14/EC SI 1701:2001</p>	C, E
Aerospace Components and Equipment Audio Amplifying Equipment Battery Chargers Circuit Breakers and Switches Computer and Peripherals Data terminal equipment Electrical/Electronic Components Electrical Cables Electrical Control Equipment Electrical and Electronic Products Electrical Musical Instruments Electrical Measurement and Test Equipment Electronic Products: Digital Enclosures for Electrical Equipment Fans Fire Fighting and Detection Equipment Generators: Electric Generators: Power	<p><b>6 ENVIRONMENTAL TESTS</b></p> <p>6.1 LOW TEMPERATURE (constant and cyclic)</p> <p>Min temp: -50 °C Max chamber size: 2100 x 1650 x 2550h mm</p> <p>Min temp: -65 °C Max chamber size: 750 x 1000 x 750 mm</p>	<p>BS EN 60068-2-1:1993 Including Amendments 1 and 2 IEC 60068-2-1:1990 BS 2011:Part 2.1A:1990 Including Amendment 1 BS 2011:Part 2.1A:1977 EN 50130-5:1999</p>	F
	<p>6.2 HIGH TEMPERATURE (constant and cyclic)</p> <p>Max temp: +70 °C Max chamber size: 2100 x 1650 x 2550h mm</p> <p>Max temp: +150 °C Max chamber size: 750 x 1000 x 750 mm</p> <p>Max temp: +200 °C Max chamber size: 390 x 270 x 300 mm</p>	<p>BS EN 60068-2-2:1993 Including Amendment 1 IEC 60068-2-2:1974 BS 2011:Part 2.1B:1977 EN 50130-5:1999</p>	F



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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 28  Instruments: Indicating and Recording IT Equipment Measuring Equipment Medical/Dental Equipment Micro-Electronic Circuits and Components Missile Components Motors: Electrical Motor Vehicle Accessories and Components Office Equipment: Electrical Photocopying Machines Plugs and Sockets: Electrical Point of Sale Terminals	6 ENVIRONMENTAL TESTS (cont'd)  6.2 HIGH TEMPERATURE (constant and cyclic) (cont'd)  <b>(Constant only)</b> Max temp: +200 °C Max chamber size: 530 x 470 x 800 mm		F
	6.3 HIGH HUMIDITY (Constant and cyclic)  Temp range: +20 °C to +70 °C Humidity range: 40 % rh to 98 % rh Max chamber size: 2100 x 1650 x 2550h mm  Temp range: +20 °C to +100 °C Humidity range: 40 % rh to 98 % rh Max chamber size: 750 x 1000 x 750 mm  <b>(Constant only)</b> Temp range: +30 °C to +100 °C  Humidity range: 40 % rh to 98 % rh Max chamber size: 640 x 500 x 540 mm	BS 2011:Part 2.1Ca:1977 Including Amendment 1 IEC 60068-2-3:1969 BS 2011:Part 2.1Cb:1990 IEC 60068-2-56:1988 BS EN 60068-2-30:1999 IEC 60068-2-30:1980 EN 50130-5:1999  BS 2011:Part 2.1Db:1981 Including Amendment 1 BS EN 60068-2-38:1999 IEC 60068-2-38:1974 BS 2011:Part 2.1Z/AD:1977	F



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As listed on Pages 28 and 29	<b>6 ENVIRONMENTAL TESTS</b> (cont'd)  6.4 THERMAL SHOCK  Max temp: +150 °C Min temp: -65 °C Max chamber size: 750 x 1000 x 750 mm Max temp: +200°C Max chamber size: 530 x 470 x 800 mm	BS EN 60068-2-14:2000 IEC 60068-2-14:1984 BS 2011:Part 2.1N:1985, Tests Na, Nb, Including Amendment 1 EN 50130-5:1999	F
	6.5 VIBRATION (Ambient temperature only)  Sinusoidal  VP30 Freq range: 5 to 4000 Hz Max peak thrust: 1245 N Max payload (vertical): 22.7 kg Max displacement: ± 6.35 mm  VP1200 Freq range: 5 to 1000 Hz Max peak thrust: 55600 N Max payload (vertical): 750 kg Max displacement: ± 12.5 mm  Random  VP30 Freq range: 5 to 4000 Hz Max peak thrust: 587 N Max payload (vertical): 22.7 kg Max displacement: ± 6.35 mm	BS EN 60068-2-6:1996 IEC 60068-2-6:1995 Including Corrigendum 1 BS 201:Part 2.1Fc:1983 Including Amendments 1 and 2 BS 2011:Part 2.1Fd:1973 BS 2011:Part 2.1Fda:1973 BS 2011:Part 2.1Fdb:1984 Including Amendments 1 and 2 BS 2011:Part 2.1Fdc:1973 Including Amendments 1 and 2 BS EN 60068-2-64:1995 IEC 60068-2-64:1993 Including Corrigendum 1 EN 50130-5:1999	F



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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 28 and 29	<p><b>6 ENVIRONMENTAL TESTS</b> (cont'd)</p> <p>6.5 VIBRATION (Ambient temperature only) (cont'd)</p> <p>VP1200 Freq range: 5 to 2500 Hz Max peak thrust: 35140 N Max payload (vertical): 750 kg Max displacement: ± 12.7 mm</p>		F
	<p>6.6 SHOCK/BUMP (Ambient temperature only)</p> <p>Half sign Rectangle Triangle Sawtooth</p> <p>VP30 Severity: 1 g to 30 g Duration: 2 ms to 25 ms (severity dependant) Max item mass: 10 kg</p> <p>VP1200 Severity: 1 g to 80 g Duration: 2 ms to 25 ms (severity dependant) Max item mass: 750 kg</p>	<p>BS EN 60068-2-27:1993 Including Amendment 1 IEC 60068-2-27:1987 EN 50130-5:1999 BS 2011:Part 2.1Ea:1987 BS EN 60068-2-29:1993 Including Amendment 1 IEC 60068-2-29:1987 BS 2011:Part 2.1Eb:1987 ETS 300 019-2-1:1994 ETS 300 019-2-2:1999 ETS 300 019-2-3:1999 ETS 300 019-2-4:1999 ETS 300 019-2-5:1994 ETS 300 019-2-6:1994 ETS 300 019-2-7:1994 ETS 300 019-2-8:1999 Excluding: ETS 300 019-2-2 T2.3 rain test ETS 300 019-2-3 T3.1 to 3.5 Earthquake test ETS 300 019-2-4 T4.1 Earthquake test T4.1 and 4.1E rain tests ETS 300 019-2-5 T5.1 and T 5.2 (IEC Class 5M3) Shock test ETS 300 019-2-6 T6.2 and 6.3 rain tests</p>	F



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As listed on Pages 28 and 29	<b>6 ENVIRONMENTAL TESTS</b> (cont'd)	ETS 300 019-2-7 T7.3 and 7.3E rain tests ETS 300 019-2-8 T8.1 water tests	
	6.6 SHOCK/BUMP (cont'd)		
	6.7 Free Fall (Operational)  Height: 0.5 m to 1.5 m	EN 50130-5:1999	F
	<p>Facilities at Skelmersdale:</p> <p>Shielded Room A: 9 m x 5.7 m x 5.75 m Semi / Fully Anechoic (Chamber 1)            Shielded Room B: 9 m x 5.7 m x 5.75 m Semi / Fully Anechoic (Chamber 2)            Shielded Room C: 7.1 m x 4.1 m x 3.5 m Semi / Fully Anechoic (Immunity)            Shielded Room D: 5.1 m x 3.1 m x 2.6 m Screened Room (Transient)            Shielded Room E: 5.6 m x 2.4 m x 2.6 m (Semi / Fully Anechoic (MAC)            Numerous Bench Laboratories ranging from 5 m x 3 m x 2.5 m to 6 m x 6 m x 3 m            Secure Storage Room: 10.1 m x 2.7 m x 3 m            Dimensions = Length (l) x Width (w) x Height (h)            Max EUT Size: 2 m x 2 m x 3 m            Max EUT Weight: 5000 kg            Max Turntable Weight of EUT:2000kg</p> <p>Power Supplies Available:            ≤ 240V AC 13A, 1 phase 50Hz            240V AC 16A, 1 phase 50Hz            ≤ 240V AC 32A, 1 phase 50Hz            240V AC 64A, 1 phase 50Hz            415V AC 92A (115kVA), 3 phase 50Hz            415V AC 64A, 3 phase 50Hz            ≤ 415V AC 32A, 3 phase 50Hz            115V AC 13A, 1 phase 50 / 60Hz            0.1V AC - 341V AC, 3 phase 20Hz – 5kHz (6kVA)            0 - 110V DC 10A            0 - 60V DC 50A</p>		



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**TRaC EMC & Safety Ltd**

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	<p>Facilities at Skelmersdale: (cont'd)</p> <p>Freezer/Oven enclosure size for Thermal Stability test -40 °C to 60 °C, 490 x 500 x 480 mm</p> <p>Freezer enclosure size for Thermal Stability test -70 °C, 1120 x 540 x 650 mm</p> <p>Humidity enclosure size for Thermal Stability test -25 °C to 100 °C, 650 x 650 x 600 mm</p> <p>Humidity enclosure size for Thermal Stability test -25 °C to 100 °C, 700 x 700 x 500mm</p> <p>Dust Chamber for IP5X and IP6X, size 2500 x 2500 x 2500 mm</p> <p>Max weight: 800 kg</p>		
	<p>Facilities at Malvern:</p> <p>Shielded Room A: 8.7 m x 5.7 m x 5.4 m</p> <p>Shielded Room B: 8.7 m x 5.7 m x 5.4 m</p> <p>Shielded Room C: 2.5 m x 2.5 m x 3 m</p> <p>Shielded Room D: 5.7 m x 2.6 m x 2.4 m</p> <p>Shielded Room E: 18 m x 16 m x 6 m</p> <p>Shielded Room F: 5 m x 5 m x 4 m</p> <p>Shielded Room G: 5.5 m x 5 m x 4 m</p> <p>Shielded Room H: 4 m x 3 m x 3 m</p> <p>Shielded Room I: 4 m x 3 m x 3 m</p> <p>GTEM 1650</p> <p>Power supplies Available:-</p> <p>240V AC 13A, 1 phase</p> <p>240V AC 32A, 1 phase</p> <p>115V AC 13A, 1 phase</p> <p>415V AC 16A, 3 phase</p> <p>415V AC 32A, 3 phase</p> <p>415V AC 64A, 3 phase</p> <p>60V DC 100A</p> <p>415V AC 400Hz 32A, 3 phase</p>		



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	<p>Facilities at Ringwood:</p> <p>Shielded Room A: 3.7 m x 5 m x 3 m Semi Anechoic (Room 1)            Shielded Room B: 3.7 m x 5 m x 3 m Semi Anechoic (Room 2)            Shielded Room C: 3.7 m x 5 m x 3 m Semi Anechoic (Barn 1)            Shielded Room D: 6.2 m x 7.2 m x 3 m Semi Anechoic (Barn 2)            Shielded Room E: 3.7 m x 6.1 m x 2.4 m Screened Room (Barn 3)</p> <p>Open Area Test Site: 3 m and 10 m</p> <p>Max EUT Size: 2 m x 3.3 m x 2 m            Max EUT Weight: 2000 kg</p> <p>Environmental Chamber 940 mm x 870 mm x 775 mm            Temperature (- 20 °C to + 100 °C) and Humidity (20 % to 75 %)</p> <p>Power Supplies Available:-            240 V AC 85 A 50/60Hz, 1 phase            415/440 V AC 55 kVA 50/60 Hz, 3 phase            115/208 V AC 6 kVA 400 Hz, 3 phase            2 - 28 V DC 250 A            2 - 100 V DC 125 A</p>		
	<p>Facilities at Century Court:</p> <p>Safety Tests</p>		
	<p>Facilities at Hull:</p> <p>Safety Tests</p> <p>Environmental (Climatic/Dynamic) Tests (see entries on Pages 28 to 32)</p>		
<p>END</p>			