


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0141</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>TÜV SÜD Product Service Ltd</h3> <p>Issue No: 145 Issue date: 23 March 2012</p>	
	<p>Octagon House Concorde Way Segensworth North Fareham Hampshire PO15 5RL</p>	<p>Contact: Mr T J Pither Tel: +44 (0)1489 558230 Fax: +44 (0)1489 570586 E-Mail: tpither@tuvps.co.uk Website: www.tuvps.co.uk</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address Octagon House Concorde Way Segensworth North Fareham Hampshire PO15 5RL</p> <p>Local contact Mr Tony Pither Tel: +44 (0)1489 558230/558100 Fax: +44 (0)1489 570586 Email: tpither@tuvps.co.uk Website: www.tuvps.co.uk</p>	<p>Testing: Environmental EMC Radio Telecommunications Electrical Safety</p>	A
<p>Address Snitterfield Road Bearley Stratford-upon-Avon Warwickshire CV37 0EX</p> <p>Local contact Mr David West Tel: +44 (0)1789 731155 Fax: +44 (0)1789 731264 Email: dwest@tuvps.co.uk Website: www.tuvps.co.uk</p>	<p>Testing: EMC Radio Telecommunications</p>	B
<p>Address TÜV SÜD BABT Octagon House Concorde Way Segensworth North Fareham Hampshire PO15 5RL</p> <p>Local contact Mr Tony Pither Tel: +44 (0)1489 558230/558100 Fax: +44 (0)1489 570586 Email: tpither@tuvps.co.uk Website: www.babt.com</p>	<p>Testing: Environmental EMC Radio Telecommunications</p>	A
<p>Address TÜV SÜD BABT Snitterfield Road Bearley Stratford-upon-Avon Warwickshire CV37 0EX</p> <p>Local contact Mr David West Tel: +44 (0)1789 731155 Fax: +44 (0)1789 731264 Email: dwest@tuvps.co.uk Website: www.babt.com</p>	<p>Testing: EMC Radio Telecommunications</p>	B



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Address TÜV SÜD BABT Forsyth House Churchfield Road Walton-on-Thames Surrey KT12 2TD	Local contact Mr Hilton Carr Tel: +44 (0)1932 251227 Fax: +44 (0)1932 251201 Email: hilton.carr@babt.com Website: www.babt.com	Administration: Customer Services	- No Accredited Testing Activities
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Site activities performed away from the locations listed above:

Location details	Activity	Location code
Any customer premises Local contact Mr Tony Pither Tel: +44 (0)1489 558230/558100 Fax: +44 (0)1489 570586 Email: tpither@tuvps.co.uk Website: www.tuvps.co.uk	EMC Radio Telecommunications Electrical Safety	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
General Non-explosive stores and equipment including:- Aerospace Structures, Materials and Equipment Agricultural Equipment Computers and Peripherals Domestic Appliances Electrical/Electronic Components, Connectors and Products Electro-Mechanical Devices Large Shipping Cases Loaded Containers Marine Equipment Mining Equipment Missiles, Missile Sub-Assemblies and Components Motor Vehicle Accessories and Components Office Equipment Packages and Packaging Material Pressure Vessels Radar Equipment Radio and Television Equipment Railway Equipments, Trackside and Rolling Stock Safety Appliances and Equipment Satellites and Sub-Assemblies Security Devices and Alarms Shipping Containers and Systems Telecommunications Equipment Traffic Signals and Signs, Static and Portable Unit Loads Unitised Loads	1 ENVIRONMENTAL TESTS¹ 1.1 Vibration Narrow Band Random-on-Random - with slip-table Facility Sinusoidal, Random Sine-on-Random, Swept Sine-on-Random, Gun Fire 1.1(a) Electromagnetic Vibrator 1 Frequency Range: 2 Hz to 2 kHz Max Displacement: ± 25 mm Max Acceleration: 70 g (load dependent) Max Load: 5000 kg Slip Table 1: 1500 x 1500 mm Slip Table 2: 950 x 670 mm Peak Thrust: 147 kN (Sinusoidal) RMS Thrust: 151 kN (Random) Temperature Conditioning: + 71 °C; - 46 °C Size: 2.5 x 2.8 x 1.9 m 1.1(b) Electromagnetic Vibrator 2 Frequency Range: 2 Hz to 3 kHz Max Displacement: ± 12.5 mm Max Acceleration: 100g (load dependent) Max load: 450 kg Slip Table 1: 600 x 600 mm	IEC 60068-2-6:1995 EN 60068-2-6:1996 IEC 60068-2-6:2008 EN 60068-2-6:2008 IEC 60068-2-34, 35, 36, 37: 1973 including Amendment 1 IEC 60068-2-59:1990 IEC 60068-2-64:1993 EN 60068-2-64:1994 IEC 60068-2-64:2008 EN 60068-2-64:2008 IEC 60068-2-50:1983 IEC 60068-2-51:1983 BS 3G100:Part 2:Section 3: Sub-Section 3.1 DEF STAN 00-35 (Part 3) Issue 3:1999 Tests M1, M2 DEF STAN 00-35 (Part 3) Issue 4:2006, Test M1 DEF STAN 07-55 (Part 2) Section 1:Issue 1: Tests A1, A2 MIL-STD 810F:Methods 514.4, Procedures I and II MIL-STD 810F: Method 519.5, Procedures I, II, III and IV MIL-STD 202:Methods 201 and 204 RTCA DO 160:Section 8 GAM-E.G. 13B:April 1997 Method 42:Section 4.2.1.6 Procedure 1 ASTM D999 ASTM D4728 ASTM D3580 ISTA Series 1, 2 and 3 TR 2130B:1993 Clause 3.11, 3.12, 3.14	A



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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>Weapons and Sub-Assemblies</p>	<p>1 ENVIRONMENTAL TESTS¹ (cont'd)</p> <p>1.1 Vibration (cont'd)</p> <p>1.1(b) Electromagnetic Vibrator 2 (cont'd)</p> <p>Peak Thrust: 27 kN (Sinusoidal)</p> <p>RMS Thrust: 21 kN (Random)</p> <p>Temperature Conditioning</p> <p>Max Temperature: + 71 °C</p> <p>Min Temperature: - 46 °C</p> <p>Size: 600 x 600 x 600 mm</p> <p>1.1(c) Hydraulic</p> <p>Frequency Range: 2 Hz to 200 Hz</p> <p>Max Displacement: ± 50 mm</p> <p>Peak Thrust: 27 kN (Sinusoidal)</p> <p>RMS Thrust: 21 kN (Random)</p> <p>Max Acceleration: 7 g (load and frequency dependent)</p> <p>Max load: 1360 kg</p> <p>Table Size: 1.2 x 2.1 m</p> <p>Temperature Preconditioning: + 80 °C, - 20 °C (unit size 1.2 x 2.4 m)</p> <p>Temperature Preconditioning: + 120 °C, - 40 °C (unit size 0.5 x 0.5 m)</p>	<p>TR 2130C:2002, Clause 3.8, 5.2</p> <p>BRB/LU RIA 20:1995, Clause 9.0</p> <p>EN 61373:1999, Clause 8</p> <p>HD 638 S1:2001</p> <p>IEC 60945: 2002, Clause 8.7</p> <p>RTCM Paper 76-2002/ SC110-STD</p> <p>RTCM Paper 77-2002/ SC110-STD</p> <p>EN 300 066:V1.3.1:2001</p> <p>ISO 10055:1996</p>	<p>A</p>



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As listed on Pages 3 and 4	<p>1 ENVIRONMENTAL TESTS¹ (cont'd)</p> <p>1.2 Shock</p> <p>1.2(a) Using Shock Machine</p> <p>Max Load: 1360 kg Max Severity: 600 g 2 ms (half sine) Max Duration: 60 msec (load dependent) Max Footprint: 1.2 m x 2.1 m Pulse Shapes: Half sine, Trapezoidal and Sawtooth Temperature Preconditioning: + 200 °C, - 65 °C</p> <p>1.2(b) Vibrator Induced Shock</p> <p>All classical shock pulse shapes plus synthesised shock and bump signatures, duplicating measured conditions</p> <p>Max Thrust: 151 kN Max Displacement: ± 25 mm Max Velocity: 1.7 m/sec Temperature Conditioning: + 80 °C; - 65 °C Max Limit Vertical, Load: 4000 kg severity: 5 g, 30 ms half sine 350 kg severity: 40 g, 11 ms half sine Max Limit Horizontal, Load on Slip Table 3500 kg severity: 5 g, 30 ms half sine 100 kg severity: 40 g, 11 ms half sine</p>	<p>IEC 60068-2-27:1987 DEF STAN 00-35 (Part 3) Issue 3:1999 Tests M3, M6 and M7 DEF STAN 00-35 (Part 3) Issue 4:2006 Tests M3, M6 and M7 DEF STAN 07-55, Test A3 MIL-STD 202:Method 213 MIL-STD 810F:Method 516.5 Procedures I, II, III, IV and V RTCA DO 160:Section 7 MIL-STD 1344A:Method 2004 MIL-C-38999:4.7.23.1 ASTM D4169 ASTM 5487 TR 2130B:1993, Clause 3.9.2 TR 2130C:2002, Clause 4.5 BRB/LU RIA 20:1995, Clause 11.0 EN 61373:1999, Clause 10 HD 638 S1:2001 EN 300 066:V1.3.1:2001 ISO 10055: 1996</p>	A



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As listed on Pages 3 and 4	1 ENVIRONMENTAL TESTS¹ (cont'd) 1.3 Bump with Temperature Pre-conditioning Max Mass: 113 kg Max Acceleration: 40 g Max Duration: 6 ms half-sine Max Size: 600 x 600 mm Max Temperature: + 200 °C Min Temperature: - 65 °C	IEC 60068-2-29:1987 DEF STAN 00-35 (Part 3) Issue 3:1999, Test M12 DEF STAN 00-35 (Part 3) Issue 4:2006, Test M12 DEF STAN 07-55, Test A5 TR 2130B:1993, Clause 3.10 TR 2130C:2002, Clause 4.15 HD 638 S1:2001 RTCM Paper 76-2002/ SC110-STD RTCM Paper 77-2002/ SC110-STD	A
	1.4 Drop, Topple and Stability: Max Load: 1360 kg Max Footprint: 1.5 m (w) x 1.5 m (d) x 2.3 m (h) Max Tilt Angle: 90 degrees Drop, Topple: Up to limits of lifting	IEC 60068-2-31:1969 including Amendment 1 EN 60068-2-31:1993 IEC 60068-2-31:2008 EN 60068-2-31:2008 DEF STAN 00-35 (Part 3) Issue 3:1999, Tests M4 and M5 DEF STAN 00-35 (Part 3) Issue 4:2006, Tests M4 and M5 DEF STAN 07-05, Test A4 ASTM D1083 ASTM D4169 ISTA Series 1, 2 and 3 TR 2130B:1993, Clause 3.9.3, 3.9.4 TR 2130C:2002, Clause 4.9, 4.11 HD 638 S1:2001 RTCM Paper 76-2002/ SC110-STD RTCM Paper 77-2002/ SC110-STD IEC 60945:2002 clause 8.6 (excluding 8.6.2)	A



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As listed on Pages 3 and 4	1 ENVIRONMENTAL TESTS¹ (cont'd) 1.5 Free Fall with or without Temperature Pre-conditioning Max Mass: 1000 kg Max Size: 2 x 2 x 2 m Max Height: 4 m Max Temperature: + 200 °C Min Temperature: - 65 °C	IEC 60068-2-32:1975 including Amendment 2 DEF STAN 07-55, Test A9 RTCM Paper 76-2002/ SC110-STD RTCM Paper 77-2002/ SC110-STD	A
	1.6 Bounce with Temperature Pre-conditioning Max Mass: 113 kg Max Size: 1760 x 580 x 1000 mm high Max Temperature: + 120 °C Min Temperature: - 40 °C	IEC 60068-2-55:1987 DEF STAN 00-35 (Part 3) Issue 3:1999, Test M11 DEF STAN 00-35 (Part 3) Issue 4:2006, Test M11 DEF STAN 07-55, Test A8	A
	1.7 Lifting (Packages and Containers) Max Height (Crane): 12 m Max Mass (Crane): 5000 kg (Fork Lift Truck): 2250 kg	DEF STAN 00-35 (Part 3) Issue 3:1999, Test M15 DEF STAN 00-35 (Part 3) Issue 4:2006, Test M15 DEF STAN 07-55, A12	A
	1.8 Static Load (Stacking) and Compression Compression: Max Load: 13,600 kg Max Compression: 150 mm Floating or Fixed Platten Max Height of Test Item: 1.9 m Max Height of Test Item: 1.9 m Max Footprint: 1.5 m x 1.5 m Stacking with Weights: 4000 kg	DEF STAN 00-35 (Part 3) Issue 3:1999, Test M16 DEF STAN 00-35 (Part 3) Issue 4:2006, Test M16 DEF STAN 07-55, A13 ASTM D4169 ASTM D642 ISTA Series 1, 2 and 3	A



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	1.9 Bending Max Load: 4000 kg	DEF STAN 00-35 (Part 3) Issue 3:1999, Test M17 DEF STAN 00-35 (Part 3) Issue 4:2006, Test M17 DEF STAN 07-55, A14	A
	1.10 Racking Max Mass: 4000 kg	DEF STAN 00-35 (Part 3) Issue 3:1999, Test M18 DEF STAN 00-35 (Part 3) Issue 4:2006, Test M18 DEF STAN 07-55, Test A15	A
	1.11 Reliability Demonstration Burn in, stress screening Temperature: Max Size: 1.0 x 1.0 x 0.9 m Max Temperature: + 90 °C Min Temperature: - 65 °C Average Rate of Change: 10 °C/min	MIL-STD 781C	A
1.12 Low Temperature Min Temperature: - 65 °C Max Size: 4.9 m x 6.0 x 4.0 m	IEC 60068-2-1:1990 including Amendment 1 and Amendment 2 IEC 60068-2-1:2007 BS 3G100:Sub-Section 3.2: 1970(1983) EN 60068-2-1:2007 DEF STAN 00-35 (Part 3) Issue 3:1999, Tests CL 4 and CL 5 DEF STAN 00-35 (Part 3) Issue 4:2006, Test CL 5 DEF STAN 07-55:Issue 1: Tests B4 and B5 MIL-STD 810F:Method 502.4, Procedures I and II RTCA DO 160:Section 4	A	



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As listed on Pages 3 and 4	1 ENVIRONMENTAL TESTS¹ (cont'd)		
	1.12 Low Temperature (cont'd)	TR 2130B:1993, Clause 3.2 TR 2130C:2002, Clause 3.3 HD 638 S1:2001 ABS Rules: 2003, Part 4, Chapter 9, Test 9 (excluding 8.6.2)	A
	1.13 High Temperature Max Temperature: + 200 °C Max Size: 450 x 480 x 650 mm Max Temperature: + 150 °C Max Size: 1.5 x 1.5 x 1.5 m Max Temperature: + 130 °C Max Size: 2.5 x 2.3 x 2.7 m Max Temperature: + 100 °C Max Size: 5.0 x 6.0 x 4.0 m	IEC 60068-2-2:1974 including Amendment 1 and Amendment 2 IEC 60068-2-2:2007 BS 3G100:Sub-Section 3.2: 1970(1983) EN 60068-2-2:2007 DEF STAN 00-35 (Part 3) Issue 3:1999, Test CL 1 DEF STAN 00-35 (Part 3) Issue 4:2006, Test CL 2 (induced temperatures only) DEF STAN 07-55:Issue 1: Tests B1 and B2 MIL-STD 810F:Method 501.4 Procedures I and II RTCA DO 160:Section 4 TR 2130B:1993, Clause 3.1 TR 2130C:2002, Clause 3.2 HD 638 S1:2001 RTCM Paper 77-2002/ SC110-STD ABS Rules: 2003, Part 4, Chapter 9, Test 3 EN 300 066:V1.3.1:2001 IEC 60945:2002, Clause 8.2	A



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As listed on Pages 3 and 4	1 ENVIRONMENTAL TESTS¹ (cont'd) 1.14 Change of Temperature (Temperature shock) Max Temperature: 200 °C Min Temperature: - 65 °C Max Size: 450 x 480 x 650 mm	IEC 60068-2-14:1984 including Amendment 1 BS 3G100:Sub-Section 3.15: 1978(1983) DEF STAN 00-35 (Part 3) Issue 3:1999, Test CL 14 DEF STAN 00-35 (Part 3) Issue 4:2006, Test CL 14 DEF STAN 07-55:Issue 1: Test B14 MIL STD 810F:Method 503.4 Procedure I and II MIL STD 202F:Method 107E RTCA DO 160:Section 5 TR 2130B:1993, Clause 3.3 TR 2130C:2002, Clause 3.4 HD 638 S1:2001 RTCM Paper 77-2002/ SC110-STD EN 300 066:V1.3.1:2001 IEC 60945: 2002, Clause 8.2	A
	1.15 Damp Heat Humidity Range: 15 % to 95 % RH Temperature: +5 °C to +70 °C Max Size: 5.0 x 6.0 x 4.0 m Additional levels: 71°C, 1% RH; 85°C, 85% RH Humidity Range: 5 % to 97 % RH Temperature: +15°C to +90°C Max Size: 1.48 x 1.48 x 1.48 m Note: Traceable humidity tests to dew points of 81 °C	IEC 60068-2-56:1988 IEC 60068-2-3:1969 IEC 60068-2-30:1980 including Amendment 1 EN 60068-2-30:2005 BS 3G100:Sub-Section 3.7: 1972(1983) DEF STAN 00-35 (Part 3) Issue 3:1999, Test CL 7 DEF STAN 00-35 (Part 3) Issue 4:2006, Tests CL 6 and CL 17 (induced temperatures only) DEF STAN 07-55:Issue 1: Tests B6, B7 and B8 MIL-STD 810F:Method 507.4 MIL-STD 202:Methods 103 and 106 RTCA DO 160:Section 6 TR 2130B:1993, Clause 3.4	A



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As listed on Pages 3 and 4	1 ENVIRONMENTAL TESTS¹ (cont'd)		
	1.15 Damp Heat (cont'd)	TR 2130C:2002, Clause 3.5 HD 638 S1:2001 RTCM Paper 77-2002/ SC110-STD ABS Rules:2003, Part 4, Chapter 9, Test 4 EN 300 066:V1.3.1:2001 IEC 60945:2002, Clause 8.3	A
	1.16 Low Air Pressure (Altitude) Max Temperature: + 95 °C Min Temperature: - 65 °C Min Pressure: 1.4 kN/m ² Max Size: 900 x 800 mm	IEC 60068-2-13:1983 BS 3G100 Sub-Section 3.2: 1970(1983) DEF STAN 00-35 (Part 3) Issue 3:1999, Tests CL 11 and CL 21 DEF STAN 00-35 (Part 3) Issue 4:2006, Tests CL 11 and CL 21 DEF STAN 07-55:Issue 1: Tests B11 and B12 MIL-STD 810F:Method 500.4 Procedures I, II and III MIL-STD 202:Method 105 RTCA DO 160:Section 4 MIL-STD 1344A:Method 1011 MIL-C-38999:4.7.20	A
1.17 High Pressure High Pressure Air: Temperature: Ambient Max Pressure: 549 kN/m ² Max Size: 600 mm diameter x 750 mm Water: Temperature: Ambient Max Pressure: 680 kN/m ² Max Size: 600 mm diameter x 750 mm	DEF STAN 00-35 (Part 3) Issue 3:1999, Test CL 15 DEF STAN 00-35 (Part 3) Issue 4:2006, Test CL 15 DEF STAN 07-55:Issue 1 Test B15 (Air) DEF STAN 07-55:Issue 1 Test D5 (Water) EN 300 066:V1.3.1:2001 IEC 60945:2002, Clause 8.9	A	



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As listed on Pages 3 and 4	1 ENVIRONMENTAL TESTS¹ (cont'd) 1.18 Low Pressure/Temp/ Humidity Max Temperature: + 95 °C Min Temperature: - 70 °C Min Pressure: 1.4 kN/ m ² Steam Injection above 40 kN/m ² Max Size: 900 diameter x 840 mm	IEC 60068-2-61:1991 IEC 60068-2-38:1974 IEC 60068-2-40:1976 including Amendment 1 IEC 60068-2-41:1976 including Amendment 1 IEC 60068-2-39:1976 EN 60068-2-39:1999 BS 3G100 Sub-Section 3.2: 1987(1983) and Sub-Section 3.4:1972(1983) DEF STAN 00-35 (Part 3) Issue 3:1999, Tests CL 12 and CL 13 DEF STAN 00-35 (Part 3) Issue 4:2006, Tests CL 12 and CL 13 DEF STAN 07-55:Issue 1: Tests B11, B12, B13, B17 and B18	A
	1.19 Leakage/Seepage/ Immersion Tank Sizes: 1 x 1 x 2.2 m (h) 1.45 m x 0.85 m diameter 1.75 m x 1.48 m diameter Drip Tests: 0.8 m x 0.8 m 25 mm nozzle matrix 350 l/m ² /hr Driving Rain: 3 m x 3 m x 3 m 200 mm/hr Mechanical Protection Ingress Protection (IP) Full range of equipment to comply with Standards	IEC 60068-2-17:1994 Tests Qc, Qd and Qf IEC 60529:1989 BS EN 60529:1992 BS 3G100:Sub-Section 3.11: 1973(1983) DEF STAN 00-35 (Part 3) Issue 3:1999 CL 26 Mist Test CL 28 Drip Test CL 29 Immersion DEF STAN 00-35 (Part 3) Issue 4:2006 CL 26 Mist Fog CL 27 Driving Rain CL 28 Drip Tests CL 29 Immersion (excluding clause 2.3.2) DEF STAN 07-55:Issue 1: Tests D1 to D6	A



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As listed on Pages 3 and 4	1 ENVIRONMENTAL TESTS¹ (cont'd) 1.19 Leakage/Seepage/ Immersion (cont'd)	MIL-STD 810F:Method 506.4, Procedures II and III MIL-STD 810F:Method 512.4, Procedure I MIL-STD 202:Methods 104, 110 and 112:Condition 'C', Procedure I MIL-C-38999:4.7.40 Atomic Energy Code of Practice (AECOP) 1068 BS 2011:Part 2.1:Qk:Method 3 RTCA DO 160:Section 10 ASTM E498:Method A BS EN 60068-2-18:2001 Test Rb TR 2130B:1993, Clause 3.7, 3.8 TR 2130C:2002, Clause 3.7, 4.2 HD 638 S1:2001 RTCM Paper 76-2002/ SC110-STD RTCM Paper 77-2002/ SC110-STD EN 300 066:V1.3.1:2001 IEC 60945: 2002, Clauses 8.9 and 8.11	A
	1.20 Corrosion (Salt) Max Size: 920 x 920 x 920 mm Various concentrations of sodium chloride and other corrosive solutions	BS 7479:1991 IEC 60068-2-11:1981 IEC 60068-2-52:1984 BS 3G100:Sub-Section 3.8: 1972(1983) MIL-STD 1344A:Method 1001 MIL-C-38999:4.7.12 DEF STAN 00-35 (Part 3) Issue 3:1999, Test CN 2 DEF STAN 07-55:Issue 1: Tests C2, C5 and C6 MIL-STD 810F:Method 509.4 MIL-STD 202:Method 101 RTCA DO 160:Section 14 TR 2130B:1993, Clause 3.13	A



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	1.20 Corrosion (Salt) (cont'd)	RTCM Paper 76-2002/ SC110-STD RTCM Paper 77-2002/ SC110-STD ABS Rules: 2003, Part 4, Chapter 9, Section 7, Test 10 EN 300 066:V1.3.1:2001 ASTM B117-07	A
	1.21 Icing/Freezing Rain Test Deposition of Glaze Ice or Rime Ice Min Temp: - 65 °C Max Size: 5.0 x 6.0 x 4.0 m	DEF STAN 00-35 (Part 3) Issue 3:1999, Test CL 10 DEF STAN 00-35 (Part 3) Issue 4:2006, Test CL10 DEF STAN 07-55:Part 2: Section 2.1:Test B10: Procedure B (0 m/s) air flow MIL-STD 810F:Method 521.2	A
	1.22 Incline Side Impact Max Load: 1360 kg Max Size of Impact Face: 1.8 m x 1.5 m (h) Max Velocity: 10 km/h	ASTM D880 ASTM D4169 ISTA Series 1, 2 and 3	A
1.23 Rapid Decompression	DEF STAN 00-35 (Part 3) Issue 4:2006, Test CL 9 MIL STD: 810F Method 500.4 Procedure III RTCA DO-160 section 4.6.2	A	



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<p>Electromechanical and Electronic Equipment in the following main categories</p> <p>Tri-Service Military Civil Aviation Transport Industrial Process</p> <p>Information Technology Equipment Telecommunications Equipment Electrical Equipment for Operation in Residential and Light Industry Environments Industrial Apparatus Operating at Less than 1000V ac or from Special Power Sources Connected to Public, Low-Voltage Mains Supplies</p> <p>Aeronautical Transmitting Equipment Aeronautic Components and Equipment Aerospace Structures Circuit Breakers and Switches Compressors Construction Plant and Equipment Construction Products Generators: Power IT Equipment Lamps: Electric Lawnmowers Mining Equipment Components Missile Components Missiles: Guided Missiles: Unguided</p>	<p>2 EMC TESTS¹</p> <p>2.1 Conducted Emissions DC to 1 GHz</p> <p>2.2 Conducted Susceptibility Power, Control and Signal lines</p> <p>2.3 Radiated Emissions Electric Field: 10 kHz to 60 GHz</p> <p>2.4 Radiated Emissions Magnetic Field: 20 Hz to 30 MHz</p> <p>2.5 Radiated Susceptibility Electric Field: peak Pulse modulated Field Strength of: 10 kHz to 200 MHz: >300 V/m 200 MHz to 400 MHz: 400 V/m 400 MHz to 1 GHz: >600 V/m 1 GHz to 18 GHz: >1 kV/m 18 GHz to 40 GHz: >200 V/m</p> <p>2.6 Radiated Susceptibility Magnetic Field: DC to 35 MHz</p> <p>2.7 Bulk Current Injection Susceptibility: 50 kHz to 400 MHz</p> <p>2.8 Spike and Surge Susceptibility</p> <p>2.9 Discontinuous Interference 150 kHz to 30 MHz</p> <p>2.10 AC Mains Interference Frequency and Voltage Variation</p>	<p><u>Military Specifications</u></p> <p>AERITILIA D-PT070A20, Issue B BAe-WAS-SP-TOR-EMC034: July 1987, Except Test RE1 DG SHIPS 250B:1981 DEF STAN 61-5, Parts 2, 3, 4, and 6 DEF STAN 59-41:Part 3: Issue 2, Section 1 DEF STAN 59-41:Part 3: Issue 2, Section 2, except DCS-01.2 and DRE 01.2 DEF STAN 59-41:Part 3: Issue 3, Amendment 4, 25 July 1991 DEF STAN 59-41:Part 3: Issue 4, Except Supplements P and Q DEF STAN 59-41:Part 3: Issue 5, Except Supplements P and Q DEF STAN 59-41 (Part 3) Issue 1, Section 3:2003, except Clauses 9.10, 9.11, 9.13, 9.18 and 9.19 DEF STAN 59-411 (Part 3) Issue 1:2007 DEF STAN 59-411 (Part 3) Issue 1:2007 plus Amendment 1:2008 DEF STAN 65-1 (Part 4) Section 2, Harmonic Distortion only EH 101:Issue 3:June 1986 FS(F)442:1982 FS(F)457:Issue 2 FS(F)510:1984, Except ACS04 MIL-STD 461A MIL-STD 461B MIL-STD 461C</p>	<p>A</p>



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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 15 Optical and Photometric Equipment Pumps Radar Equipment Satellites and Sub-Assemblies Security Devices and Alarms Security Equipment Sonar Equipment Tools: Hand Tools: Machine Toys Transformers: Electrical Video Equipment	2 EMC TESTS¹ (cont'd) 2.11 Electrostatic Discharge AC, DC Power Lines, Signal and Control Lines 2.12 Fast Transient Bursts on AC, DC Power Lines, Signal and Control Lines 2.13 Magnetostatic Field Susceptibility 3200 A/m, Max test sample size 1.6 m ³ Coil diameter: 2.34 m 2.14 Magnetostatic Field De-perming level -3200 A/m Max sample size 1.6 m ³ Coil diameter: 2.34 m 2.15 Compass Safe Distance	<u>Military Specifications</u> (cont'd) MIL-STD 461D, Except RS 105 MIL-STD 461E MIL-STD 461F MIL-STD 1541:1973, Except RS 03, CS 03, CS 04, to 40 GHz and CS 06 MVEE 595:Issue 1 NWS 3:1981, including Amendments 1 to 4 SPE-J-000-E-1000, Issue 1 Except CS-EFA-6 and CS-EFA-7, limited to 18 GHz, LEMP-EFA-1, and NEMP-EFA-2 EN 2282:1992, Annex A EN 2282:1997 (Draft), Annex A BS 2G100:Part 2:Section 2: 1967 and Amendment 1 BS 3G100:Part 2:Section 2: 1972 BS 3G100:Part 3:1979 BS 3G100:Part 4:Section 2:1980 EA98Q010J, except CSWA 10 MIL-STD 285 TS 1527: Issue 2 SP-P-90001 SP-P-90003, Except CS 03, CS 04, CS 05 all to 40GHz RE1 SP-P-90-010:Issue 1:Nov 1995, Tests CE-TOR-1, CE-TOR-2, CE-TOR-3, CE-TOR-4, RE-TOR-1, CS-TOR-1, CS-TOR-2, CS-TOR-4, RS-TOR-1, RS-TOR-2, RS-TOR-3 SP-A-90203, Except RE1 PTARMIGAN Manual of Standards, Section 11, Issue 5 PTARMIGAN Manual of Standards, Section 20, Issue 3	A



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As listed on Pages 15 & 16	2 EMC TESTS¹ (cont'd)	<u>Non-civil specifications</u> (cont'd) SAMA Standard PMc 33.1:1978 IBM C-S 2-0001-02:1986/10 RIA 18:1990 Airbus ABD 0013, Issue D, Appendix 1 Boeing D6-16050-2, except paragraphs 7.4 and 7.4.3 Boeing D6-16050-4, except Paragraph 7.1 Boeing D6-16050-5, Rev C except Paragraphs 7.2.1 and 7.3.2 Boeing D2 00Z001, except Paragraphs 12.7.5.3.2 and 12.7.5.4.2 Boeing D6-44588, except paragraph 3.5.3.9 Boeing 787B3 0147 Lloyds Register of Shipping: 1985 Airbus ABD-007:Issue E:1988 Airbus ABD-0100.1.2 Issue E, Clauses 3.2, except 3.2.1; 3.3, 3.4 and 3.5 Airbus ABD-0100.1.8 Issue D Airbus ABD-0100.1.8 Issue E Table C (excluding 50, 100 and 400µs sections of Test 5)	A
	2.16 Shielding Effectiveness 1 to 10 GHz	In-House Method TP-058	A



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	<p align="center">EMC TEST FACILITIES</p> <p>Shielded Enclosures: (Semi-anechoic and ferrite lined) Including 3 m Alternate Open Area Test Site</p> <p>Maximum Chamber Size: 10 x 7 x 6 m Maximum Test Sample Size: 6 x 3.3 x 3.8 m Maximum Weight: 4000 kg Power Provisions:</p> <p>Single phase supplies: 240 V, 50 Hz, 16A 240 V, 50 Hz, 32A 440 V, 50 Hz, 64A 115V, 60 Hz, 40A</p> <p>3 phase supplies: 220V, 60 Hz, 75A DC 250V, 60A</p> <p>Open Field Site: 3 and 10 m</p> <p>Maximum Test Sample Size: Height: 3 m Width: 4 m Max Weight: 6000 kg free-standing Max Weight: 6000 kg turntable mounted</p>		
<p>Information Technology Equipment Telecommunications Equipment Electrical Equipment for operation in residential and light industrial environments Industrial Apparatus Operating at Less than 1000 V AC or from Special Power Sources Connected to Public, Low-Voltage, Mains Supplies</p> <p>Aerospace Components and Equipment Aerospace Structures Agricultural Equipment Batteries and Cells Ceramics and Products</p>	<p>3 CIVIL EMC TESTS¹</p> <p>3.1 Conducted Emissions</p> <p>Continuous Emissions: DC to 100 MHz</p> <p>Discontinuous Interference: 0.15 MHz to 30 MHz</p> <p>Conducted Emissions (Antenna input) 30 MHz to 1 GHz</p>	<p>BS 800:1988 EN 55011:1991 EN 55011:1998 including Amendment A1:1999 and Amendment A2: 2002 EN 55011:2007 including Amendment A2:2007 EN 55011:2009 EN 55011:2009 including Amendment 1:2010 EN 55013:Issue 1:1990 including Amendment 1:1993 Amendment 12:1994 Amendment 13:1996 Amendment 14:1999 EN 55013:2001 including Amendment 1:2003 and Amendment 2:2006 excluding Tables 6 & 7</p>	<p>A, B</p>



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Continued from Page 19	3 CIVIL EMC TESTS¹ (cont'd)		
Circuit Breakers and Switches Coatings: Metallic Composite Materials Compressors Computers and Peripherals Construction Plant and Equipment Construction Products Domestic Appliances: Electrical Electrical/Electronic Components Electrical/Electronic Connectors Electrical/Electronic Products Electronic Products: Digital Electrical Cables Electro-Mechanical Devices Enclosures for Electrical Equipment Engine Components Fans Filters and Filter Media Fire Fighting and Detection Equipment Generators: Electrical Generators: Power Generators: Welding Hoses, Pipes and Tubes Hydraulic Equipment and Fittings Industrial Trucks Instruments: Indicating or Recording Insulating Materials: Electrical IT Equipment Laminates and Fibre Composites Lamps: Electric Lawnmowers Lifting Gear Luminaires Magnetic Materials	3.1 Conducted Emissions (cont'd)	J 55013:1998 EN 55014:1993 EN 55014-1:1997 EN 55014-1:2000 EN 55014-1:2000 including Amendment A1:2001 EN 55014-1:2000 plus Amendment A2:2002 EN 55014-1:2006 including Amendment A1:2009 excluding use of EN 55015 and EN 61000-4-20 method CISPR 11, ed 1:1990 CISPR 11, ed 4:2003 CISPR 11, ed 4.1:2004 CISPR 11, ed 5:2009 CISPR 11, ed 5.1:2010 AS/NZS CISPR 11:2004 CISPR 12, ed 5:2001 CISPR 12, ed 5.1:2005 CISPR 13, ed 4.2:2006 CISPR 14:1993 CISPR 14-1:1997 CISPR 14-1:2000 CISPR 14-1:2005 CISPR 14-2:1997 CISPR 14-2, ed 1.1:2001 CISPR 14-2, ed 1.0 including Amendment 2:2008 EN 55015:2006 including Amendment A2:2009 Limited to LED Products EN 55022:1987 EN 55022:1994 including Amendment 1:1995 and Amendment 2:1997 EN 55022:1998* including Amendment 1:2000 Amendment 2:2003 & Corrigenda 1 and 2 * includes signal lines where standard ISN's and CDN's can be used	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 Pages 19, 20 & 21 Sonar Equipment Structural Components and Fittings Switchboards: Electrical Telecommunications Equipment Tools: Hand and Machine Toys Transformers: Electrical Video Equipment Waste Handling Equipment Weapons and Sub-assemblies	3 CIVIL EMC TESTS¹ (cont'd) 3.2 Radiated Emissions Magnetic Field: 10 kHz to 30 MHz Electric Field: 30 MHz to 40 GHz Interference Power: 0.15 MHz to 300 MHz Effective Isotropic Radiated Power: 30 MHz to 40 GHz	BS 800:1988 EN 55011:1991 EN 55011:1998 including Amendment A1:1999 and Amendment A2: 2002 Excl clause 5.5.2 table 3a EN 55011:2007 including Amendment 2:2007 EN 55011:2009 EN 55011:2009 including Amendment 1:2010 EN 55013:1990 Amendment 12:1994 Amendment 13:1996 Amendment 14:1999 EN 55013:2001, including Amendment 1:2003 and Amendment 2:2006 excluding Tables 6 & 7 EN 55014:1993 EN 55014-1:1997 EN 55014-1:2000 EN 55014-1 including Amendment A1:2001 EN 55014-1 including Amendment A2:2002 EN 55015:2006 including Amendment A2:2009 Limited to LED products CISPR 11, ed 1:1990 CISPR 11, ed 4:2003 CISPR 11, ed 4.1:2004 CISPR 11, ed 5:2009 CISPR 11, ed 5.1: 2010 AS/NZS CISPR 11:2004 CISPR 12, Ed 5:2001 CISPR 13, Ed 4.2:2006 CISPR 14:1993 CISPR 14-1:1997 CISPR 14-1:2000 CISPR 14-1:2000 including Amendment 1:2001 and Amendment 2:2002	A, B



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As listed on Pages 19 to 22	3 CIVIL EMC TESTS¹ (cont'd)		
	3.3 Conducted Immunity 20 Hz to 400 MHz (cont'd)	EN 61000-4-6:2007 including Corrigendum 1:2007 EN 61000-4-6:2009 IEC 61000-4-6:ed 1:1996 IEC 61000-4-6:ed 2.1:2004 IEC 61000-4-6:ed 2.2:2006 IEC 61000-4-6:2003 including Amendment 1:2004 and Amendment 2:2006 DS 5104:1987 BTR 2511:Issue 5 (except Section 3.3.1) EN 301 489-1:V1.8.1:2008 EN 301 489-1:V1.9.2:2011	A, B
	3.4 Radiated Immunity Magnetic Field: DC to 35 MHz Electric Field: 400 MHz to 1 GHz: >600 V/m 1 GHz to 18 GHz: >1 kV/m 18 GHz to 40 GHz: >200 V/m	ENV 50140:1993 IEC 60801-3:1984 IEC 60801-3:Draft 7 (65A/77BN) IEC 61000-4-3:ed1:1995 plus Amendment 1:1998 EN 61000-4-3:1996 including Amendment 1:1998 EN 61000-4-3:2002 including Amendment 1:2002 EN 61000-4-3:2006 including Amendment A1:2008 and Amendment A2:2010 (limited to max frequency of 2.7GHz) IEC 61000-4-3:ed2:2002 including Amendment A1:2002 IEC 61000-4-3:2002 Including Amendment 1:2002 IEC 61000-4-3:2006 (including Amendment A1:2007 and Amendment A2:2010 (limited to max frequency of 2.7GHz) ENV 50204:1995 ISO 11452-2:1995 200 MHz to 18 GHz ISO 11452-1:2005 ISO 11452-2:2004 ISO 11452-4:1995 1 MHz to 400 MHz	A, B



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As listed on Pages 19 to 22	3 CIVIL EMC TESTS¹ (cont'd)		
	3.4 Radiated Immunity (cont'd)	ISO 11452-4:2005 including Corrigendum 1:2009 excluding clause 7.6.2; Figure 2 and clause 8.3.2 ISO 11452-5:2002 SAMA PMC 33.1:1985 EN 301 489-1:V1.8.1:2008 EN 301 489-1:V1.9.2:2011 95/54/EC Annex IX 97/24/EC Annex 8 ECE Regulation 10.02:1997 Section 9 2004/104/EC 2006/28/EC EN 50498:2010	A, B B B B B B B
	3.5 Mains Harmonics and Fluctuations: 0 to 2 kHz	EN 60555-2:1987 EN 60555-3:1987 including Amendment 1:1991 EN 61000-3-2:1995 EN 61000-3-2:2000 EN 61000-3-2:2006 including Amendment 2:2009 Limited to <16A supply IEC 61000-3-2:ed3:2005 IEC 61000-3-2:ed3.22009 Limited to <16A supply JIS C61000-3-2:2005 EN 61000-3-3:1995 including Amendment 1:2001 and Amendment 2:2005 EN 61000-3-3:2008 Limited to <16A supply IEC 61000-3-3:ed1:1994 including Amendment 1:2001 and Amendment 2:2005 IEC 61000-3-3 ed1.1:2002 IEC 61000-3-3 ed1.2:2005 IEC 61000-3-3 ed2:2008 Limited to <16A supply EN 301 489-1:V1.8.1:2008 EN 301 489-1:V1.9.2:2011 Limited to <16 Amps	A, B



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As listed on Pages 19 to 22	3 CIVIL EMC TESTS¹ (cont'd)		
	3.6 Immunity to Power Frequency Magnetic Field	EN 61000-4-8:1993 EN 61000-4-8:2010 IEC 61000-4-8:ed1:1993 including Amendment 1:2000 IEC 61000-4-8 ed 1.1:2001 EN 61000-4-9:1993 IEC 61000-4-9:ed1:1993 IEC 61000-4-9 ed1.1:2001 EN 301 489-1:V1.8.1:2008 EN 301 489-1:V1.9.2:2011	A, B
	3.7 Mains Surges and Transients	EN 61000-4-4:1995 including Amendment A1:2001 and Amendment 2:2001 EN 61000-4-4:2004 including Amendment A1:2010 and Corrigenda 2006 & 2007 EN 61000-4-5:1995 including Amendment A1:2001 EN 61000-4-5:2006 IEC 61000-4-4:ed1:1995 including Amendment A1:2001 and Amendment A2:2001 IEC 61000-4-4 ed 2:2004 IEC 61000-4-5:ed1:1995 including Amendment A1:2001 IEC 61000-4-5 ed 1.1:2001 IEC 61000-4-5 ed 2:2005 ISO 7637:Parts 1 and 2:1990 Except Pulse 1b, limited to level 1 and 2 only ISO 7637-2:2004 ISO 7637-2:2011 EN 301 489-1:V1.8.1:2008 EN 301 489-1:V1.9.2:2011 CTIA Certification Requirements for Battery System Compliance, January 2009, Clause 6.2 IEEE 1725:2006, Clause 7.2.1	A, B



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As listed on Pages 19 to 22	3 CIVIL EMC TESTS¹ (cont'd)		
	3.8 Mains Dips and Interruptions	prEN 50093:1991 EN 61000-4-11:1994 including Amendment 1:2001 IEC 61000-4-11:ed1:1994 EN 61000-4-11:2004 IEC 61000-4-11:ed 2:2004 EN 301 489-1:V1.8.1:2008 EN 301 489-1:V1.9.2:2011	A, B
	3.9 Electrostatic Discharge to 25 kV	EN 55101-2:1989 EN 60801-2:1993 EN 61000-4-2:1995 including Amendment 1:1998 and Amendment 2:2001 EN 61000-4-2:2009 IEC 61000-4-2 ed 1.2:2001 IEC 61000-4-2 ed 2: 2008 EN 301 489-1:V1.8.1:2008 EN 301 489-1:V1.9.2:2011 CTIA Certification Requirements for Battery System Compliance, January 2009, Clause 6.2 IEEE 1725:2006, Clause 7.2.1	A, B
3.10 Generic and Product Specific Standards These standards, which refer to basic standards, are included in this Schedule, but only to the extent that the 3.1 to 3.9 of the Schedule.	EN 12182:1999 (Clause 7) prEN 12184:1996 prEN 12830:1997 EN 12895:2000 EN 50081-1:1992 EN 50081-2:1994 EN 50082-1:1992 EN 61000-6-1:2001 EN 61000-6-1:2007 IEC 61000-6-1 ed2:2005 EN 61000-6-2:2001 EN 61000-6-2:2005 IEC 61000-6-2:ed1:1999 IEC 61000-6-2 ed2:2005 IEC 61000-6-3 ed1:1996 EN 61000-6-3:2001 plus Amendment A11:2004	A, B	



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As listed on Pages 19 to 22	<p>3 CIVIL EMC TESTS¹ (cont'd)</p> <p>3.10 Generic and Product Specific Standards (cont'd)</p>	<p>EN 61000-6-3:2007 Limited to 16A for harmonics and flicker</p> <p>EN 61000-6-4:2001 EN 61000-6-4:2007 IEC 61000-6-4 ed1:1997 Excluding Table A1 IEC 61000-6-4 ed2:2006 prEN 50082-2:1996 EN 50083-2:1995 including Amendment A1:1997 (Test 4.4.2 only)</p> <p>EN 50093 (draft):1991 EN 50121-1:2000 EN 50121-1:2006 EN 50121-2:1996 EN 50121-3-1:1996 EN 50121-3-2:1996 prEN 50121-3-2:1997 EN 50121-3-2:2000 EN 50121-3-2:2006 EN 50121-4:1996 EN 50121-4:2000 (excluding Table A - Short Circuit Current Tests)</p> <p>EN 50121-4:2006 EN 50121-5:1996 EN 50121-5:2000 EN 50121-5:2006 prEN 50127-1:1993 EN 50130-4:1995 including Amendment 1:1998 and Amendment 2:2003 EN 50199:1995 EN 50270:2006 EN 50293:1999 EN 50293:2000 EN 55014-2:1997 EN 55014-2:1997 including Amendment 1:2001 and Amendment 2:2008 EN 55024:1998 including Amendment A1:2001 and Amendment A2:2003</p>	A, B



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As listed on Pages 19 to 22	<p>3 CIVIL EMC TESTS¹ (cont'd)</p> <p>3.10 Generic and Product Specific Standards (cont'd)</p>	<p>EN 55024:2010 CISPR 24:1997 including Amendment A1:2001 and Amendment A2:2002 EN 55103-1:1996 EN 55103-1:2009 EN 55103-2:1996 EN 55103-2:2009 EN 55104:1995 EN 50155:2001, Clauses 3.1.1.1, 3.1.1.2, 10.2.6.2 and 10.2.6.3 EN 50155:2007, Clauses 5.1.1.1, 5.1.1.2, 12.2.6, 12.2.7 and 12.2.8 EN 55015:2006 including Amendment A2:2009 Limited to LED products IEC 60601-1-2:ed1:1993 IEC 60601-1-2:ed2:2001, including Amendment 1:2004 Section 5, Clause 36 only IEC 60601-1-2:ed 2.1:2005 Section 5, Clause 36 only IEC 60601-1-2:ed 3:2007 EN 60601-1-2:1993 EN 60601-1-2:2001, Section 5, Clause 36 only EN 60601-1-2:2007 EN 61204-3:2000 EN 61036:1996 EN 61326:1997 including Amendment 1:1998, Amendment 2:2001 and Amendment 3:2003 EN 61326-1:2006 IEC 61326:ed 2:2002 IEC 61326-1:ed 1:2005 Clauses 4.4.2, 4.4.3, 4.4.4, 4.4.7 and 4.4.8 IEC 61326-2-6:2005 EN 61326-2-6:2006</p>	A, B



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As listed on Pages 19 to 22	<p>3 CIVIL EMC TESTS¹ (cont'd)</p> <p>3.10 Generic and Product Specific Standards (cont'd)</p>	<p>EN 61800-3:1996 including Amendment A11:2000 Clauses 5.3.1, 5.3.2, 6.1.2, 6.1.3, 6.3.1 and 6.3.2 only CEGB DN5:1982 CEGB EES:1989 TRG 1068:1991 RC5000:Issue P:1990, Section 12 AS/NZS 4252.1:1994 EN 301 489-3:V1.2.1:2000 EN 301 489-3:V1.4.1:2002 EN 301 489-4:V1.2.1:2000 EN 301 489-4:V1.3.1:2002 EN 301 489-4:V1.4.1:2009 EN 301 489-5:V1.2.1:2000 EN 301 489-5:V1.3.1:2002 EN 301 489-7:V1.1.1:2000 EN 301 489-7:V1.2.1:2002 EN 301 489-7:V1.3.1:2005 EN 301 489-8:V1.1.1:2000 EN 301 489-8:V1.2.1:2002 EN 301 489-9:V1.1.1:2000 EN 301 489-9:V1.3.1:2002 EN 301 489-9:V1.4.1:2007 EN 301 489-10:V1.1.1:2000 EN 301 489-12:V2.2.2:2008 EN 301 489-13:V1.2.1:2002 EN 301 489-17:V1.1.1:2000 EN 301 489-17:V1.2.1:2002 EN 301 489-17:V1.3.2:2008 EN 301 489-17:V2.1.1:2009 EN 301 489-18:V1.3.1:2002 EN 301 489-19:V1.2.1:2002 EN 301 489-20:V1.2.1:2002 EN 301 489-22:V1.1.1:2000 EN 301 489-22:V1.3.1:2003 EN 301 489-23:V1.1.1:2001 EN 301 489-23:V1.2.1:2002 EN 301 489-23:V1.3.1:2007 EN 301 489-24:V1.2.1:2002 EN 301 489-24:V1.3.1:2005 EN 301 489-24:V1.4.1:2007 EN 301 489-28:V1.1.1:2004</p>	A, B



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	<p>4 TRANSIENT TESTING¹</p> <p>4.1 NEMP Pulse Transients</p> <p>4.2 Damped Sinusoid</p> <p>4.3 Damped Cosine</p> <p>4.4 Lightning Longwave Pulse</p> <p>4.5 Lightning shortwave Pulse</p> <p>4.6 Lightning Oscillatory Waveform</p> <p>4.7 Lightning Multiple Stroke</p> <p>4.8 Lightning Multiple Burst</p> <p>4.9 Pulse Excitation</p>	<p>BRB/RIA Specification No 12:1984</p> <p>BS 6491:Part 1:1984</p> <p>IEC 255-4:1970</p> <p>CCITT K17:1988</p> <p>CCITT K20:1991</p> <p>CCITT K21:1988</p> <p>DEF STAN 59-41, Part 3, Issue 3, Amendment 4, July 1991, except DRE03</p> <p>MIL-STD 461B</p> <p>MIL-STD 461C</p> <p>MIL-STD 461D</p> <p>MIL-STD 461E</p> <p>RTCA DO-160C</p> <p>Boeing D6-16050-4, Except paragraph 7.1</p> <p>SAE-AE4L 87-3:1987</p> <p>MIL STD 826A:1968</p> <p>BS 3G100 Part 3:1979</p> <p>Boeing D2 00Z001, Except paragraphs 12.7.5.3.2 and 12.7.5.4.2</p> <p>SPE-J-000-E-1-1000</p> <p>LEMP-EFA-2 (Fast Pulse)</p>	A
<p>Base-Stations and Mobiles Cell Extenders</p> <p>Cellular Infrastructure Radio Equipment</p> <p>Cellular Telephones</p> <p>Communication and Control Systems</p> <p>Cordless Telephones</p> <p>Digital and Analogue CB Radio</p> <p>Digital Short Range Radio</p> <p>Emergency Positioning Indicator Radio Beacon (EPIRB)</p> <p>ERMES Pager Systems</p> <p>Frequency Hopping Radio LAN Equipments</p>	<p>5 RADIO TESTING¹</p> <p>Frequency Range: 10 Hz to 40 GHz</p> <p>Temperature: -25°C to +55°C</p> <p>Relative Humidity: 20% to 75%</p> <p>5.1 Emission-- Effective Radiated Power: 9 kHz to 40 GHz</p> <p>5.2 Emissions Conducted: 100 Hz to 18 GHz</p> <p>5.3 Maximum Frequency Deviation: 10 Hz to 100 kHz</p>	<p>EN 300 066:V.1.3.1:2001</p> <p>EN 300 219-1:V1.2.1:2001</p> <p>EN 300 219-2:V1.1.1:2001</p> <p>EN 300 440-1:V1.3.1:2001</p> <p>EN 300 440-1:V1.4.1:2008 excluding products with carrier frequencies \geq 20GHz and Clause 9 and Annex E</p> <p>EN 300 440-1:V1.5.1:2009 excluding products with carrier frequencies \geq 20GHz and Clause 9 and Annex E</p>	A



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As listed on Pages 33 & 34	<p>5 RADIO TESTING¹ (cont'd)</p> <p>5.20 Adjacent Channel Power: to 90 dBc</p> <p>5.21 Out of Band Power: 10 Hz to 40 GHz</p> <p>5.22 Adjacent Channel Selectivity: 100 kHz to 1 GHz</p> <p>5.23 Maximum Usable Sensitivity: 9 kHz to 1 GHz</p> <p>5.24 Reference Sensitivity: 100 kHz to 1 GHz</p> <p>5.25 Intermodulation Response: (2 and 3 Generator Method): 100 kHz to 1 GHz</p> <p>5.26 Mis-Operation (Adverse Power Supply): 100 kHz to 4 GHz</p> <p>5.27 Spurious Response Rejection: 10 Hz to 4 GHz</p> <p>5.28 Encoder Response</p> <p>5.29 Amplitude Characteristics of Receiver: 100 kHz to 1 GHz</p> <p>5.30 Co-Channel Rejection: 100 kHz to 1 GHz</p> <p>5.31 AF Response of Modulation Frequencies: > 2.55 kHz</p> <p>5.32 Modulation Distortion: 20 MHz to 950 MHz</p>	<p>EN 300 433-1:V1.3.1:2011 EN 302 064-1:V1.1.2:2004 EN 302 064-2:V1.1.1:2004 EN 300 676-1:v1.4.1:2007 excluding clauses 7.4.5, 8.14 and 8.16 EN 301 025-1:V1.2.1:2004 EN 301 025-2:V1.2.1:2004 EN 301 025-3:V1.2.1:2004 EN 301 025-1:V1.3.1:2007 EN 301 025-2:V1.3.1:2007 EN 301 025-3:V1.3.1:2007 EN 301 178-1: V1.2.1:2003 EN 301 178-1:V1.3.1:2007 EN 301 178-2:V1.2.2:2007 EN 301 357-1: V1.3.1:2006 EN 301 357-1: V1.4.1:2008 EN 301 357-2:V1.3.1:2006 EN 301 357-2:V1.4.1:2008 EN 301 681:V1.3.2:2003 EN 301 721:V1.2.1:2001 EN 300 698-1:V1.3.1:2003 EN 300 698-1:V1.4.1:2009 EN 300 698-2:V1.1.1:2000 EN 300 698-3:V1.1.1:2001 EN 301 033:V1.2.1:2005 Excluding clauses 8.10 and 8.11 EN 301 893:V1.2.3:2003 EN 301 893:V1.5.1:2008 EN 301 908-1:V2.2.1:2003 EN 301 908-1:V3.2.1:2007 EN 301 908-3:V3.2.1:2007 EN 301 908-1:V4.2.1:2010 EN 301 908-1:V5.2.1:2011 EN 301 908-3:V4.2.1:2010 EN 301 908-3:V5.1.1 Draft:2010 EN 301 908-3:V5.2.1:Draft 2011 EN 302 544-1:V1.1.0 Draft:2008 EN 302 208-1:V1.1.1:2004 EN 302 208-1:V1.2.1:2008 EN 302 194-1:V1.1.2:2006 Clauses 7.9.2, 7.9.3 and 7.9.5 only ETS 300 487:1996 including Amendment 1:1997</p>	A



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As listed on Page 33 & 34	<p>5 RADIO TESTING¹ (cont'd)</p> <p>5.33 Transmitter Noise and Hum: 20 MHz to 950 MHz</p> <p>5.34 Harmonic Content and Output Power: 10 Hz to 100 kHz</p> <p>5.35 Modulation Frequency Characteristics: 10 Hz to 100 kHz</p> <p>5.36 Squelch Facility: 100 kHz to 1 GHz</p> <p>5.37 Accuracy and Stability of Timing Parameters</p> <p>5.38 Bit Error Rate Measurements</p> <p>5.39 Coding, Protocol, RF, Modulation</p> <p>5.40 Multiple Watch Characteristic, Peak Power Density</p> <p>5.41 Verification of Correct Decoding</p> <p>5.42 Transient Frequency Behaviour</p> <p>5.43 Residual Modulation</p> <p>5.44 Data Message Bit Rate</p> <p>5.46 Frequency Stability</p> <p>5.47 Power Rise and/or Fall Time</p> <p>5.48 Power Burst Rate</p>	<p>COSPAS/SARSAT T.007 Issue 4:Nov 2005 including Revision 1: Oct 2006, Revision 2: Nov 2007 Revision 3: Oct 2008 excluding A3.8.7 Revision 4: Oct 2009 Revision 5: Oct 2010 Revision 6: Oct 2011</p> <p>COSPAS/SARSAT T.001 Issue 3, Revision 10:2009 Issue 3, Revision 11:2010</p> <p>NSS PLB06 clauses 4.1, 4.2, 4.3, 4.5 and 4.6</p> <p>AS/NZS 4268:2003 including Amendment 1:2005 excluding 5GHz WLAN and Data Communication Transmitters</p> <p>AS/NZS 4268:2008 including Amendment 1:2010</p> <p>AS/NZS 4771:2000 excluding Clauses 5.1.2 and 7.2.9</p> <p>AS/NZS 4771:2000 including Amendment 1 excluding Clauses 5.1.2 and 7.2.9</p> <p>RTCM Paper 35-94/ SC113-53:May 1994</p> <p>FCC CFR 47:Part 2:2011 Clauses 2.1046, 2.1047, 2.1049, 2.1051, 2.1053 and 2.1055</p> <p>FCC CFR 47:Part 24:2011 Clauses 24.229, 24.232, 24.235 and 24.238</p> <p>3GPP TS.141:V7.6.0</p> <p>FCC CFR 47:Part 15:2010 Excluding Section G, Clauses 15.601 to 15.615</p> <p>FCC CFR 47:Part 25:2009 Clauses 25.202(d), 25.202(f), and 25.216</p> <p>FCC CFR 47:Part 80:2010 Clauses 80.209, 80.211, 80.213, 80.215, 80.217 and 80.227</p>	A



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As listed on Page 33 & 34	5 RADIO TESTING¹ (cont'd) 5.49 Power Burst Width 5.50 Magnitude of Phase 5.51 Rise and/or Fall Time of Pulse Modulation 5.52 Radiated Spurious Emissions	FCC CFR 47:Part 90:2011, Clauses 90.201 to 90.219 FCC CFR 47:Part 22:2011 Clauses 22.255, 22.905, 22.913 and 22.917 FCC CFR 47:Part 27:2011 Clauses 27.50, 27.53, 27.54 Limited to 1710-1755MHz and 2110-2155MHz FCC CFR 47:Part 87:2005 subpart D:2006, Clauses 87.131, 87.133, 87.135, 87.137. 87.139, and 87.141 RSS-133:Issue 5:Feb 2009 RSS-112:Issue 1:2008 RSS-117:Issue 2:1974 RSS-119:Issue 11:2011 excluding clause 5.13 RSS-138:Issue 1:2004 RSS-141:Issue 2:Feb 2010: RSS-139 Issue 2:Feb 2009 Excluding Clause 5.2 RSS-142:Issue 4:July 2010 RSS-170:Annex B:Nov 1999 RSS-181:Issue 1:1971 RSS-182:Issue 5:Jan 2012 RSS-188:Issue 1 (Prov):1996 RSS-191:Issue 3:2008 Conducted and Radiated Emissions < 60G Hz RSS-192:Issue 3:2008 RSS-193:Issue 1:2003 RSS-194:Issue 1:2007 RSS-195:Issue 1:2004 RSS-210: Issue 8:2010 excluding DFS and devices operating above 40GHz RSS-213:Issue 2:2005 RSS-215:Issue 2:2009 AS/NZS 4415.1:2003 excluding Clauses 5.5.14 and 5.7 AS/NZS 4415.2:2003 Including Amendment 1; excluding clauses 5.1, 5.3 and 5.5	A



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As listed on Page 33 & 34	5 RADIO TESTING¹ (cont'd)	ARIB STD-T66 V2.1:Mar 2003 ARIB RCR STD-T33 V3.0: June 1997 HKTA 1035:Issue 2:Feb 2003 HKTA 1039:Issue 1:Feb 2003 RSS-GEN Issue 3:Dec 2010 EN 302 291-1:V1.1.1:2005 Excluding section 8.2 EN 302 291-2:V1.1.1:2005 IEC 1097-12:1996 IEC 62238, Ed 1:2003 IEC 61097-2:2002, Clause 5.15, Annex B & D IEC 61097-2:2008 Clause 5, Annex B&D EN 61097-14:2010 Clauses 5.2.3, 6.2 & 7 only IEC 62287-1:ed 2:2010 RTCM Paper 76-2002/ SC110-STD, clauses A.8.0, A.9.0 and A.12.0 RTCM Paper 77-2002/ SC110-STD, clauses A.10.0, A.12.0 and A.17.0 RTCM Paper 114-2008/ SC110-STD, clauses A.1.11, A.1.12, A.12, A.13, A.14 and A.16 RTCM 11010.2 (RTCM Paper 189-2010/SC110-STD clauses A12, A14, A16 & A20 RSS-287, Issue 1:2007 AS/NZS 4280.1:2003 including Amendments 1, 2 and 3 Clause 5.15, Annex B & D AS/NZS 4280.2:2003; Section 3 and Appendix E EN 302 326-2:V1.2.1:2007 TS 101 087:V8.10.0 Paragraph 8 EN 301 502:V8.1.2:2001 TS101 087:V8.5.0:2000 excluding Sections 6.1, 7.1 and 9 TS 51-010-1, clause 12.2.1 and 12.2.2 only	A



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As listed on Page 33 & 34	5 RADIO TESTING¹ (cont'd)	EN 301 511:V7.0.1:2000 EN 301 511:V9.0.2:2003 NAPRD 03 3GPP TS 34.124 v9.2.0:2010 Clause 8.2 only	A
Any electromagnetic field (EM) transmitting devices intended to be used with the radiating part of the equipment in close proximity to the human ear and body cordless phones, etc, for the	6 SAR TESTS 6.1 Specific Absorption Rate 450 MHz, 850 MHz, 900 MHz, 1800 MHz, 1900 MHz and 2450 MHz	EN 50360:2001 Radiocommunications (Electromagnetic Radiation Human Exposure) Standard(ACA 2003), Sections 10 and 11 EN 62209-1:2006 IEC 62209-2:ed 1.0:2010 plus Corrigendum 1 EN 62209-2:2010 Supplement C (Edition 01-01) to OET Bulletin 65 (Edition 97-01) RSS-102 Issue 4:2010	A
Rechargeable Batteries for Cellular Telephones	7 SAFETY TESTS 7.1 Ambient Consideration	CTIA Certification Requirements for Battery System Compliance, January 2009, Clause 5.8 IEEE 1725:2006, Section 6.3.4	A
	7.2 Action, Thermal Protection	CTIA Certification Requirements for Battery System Compliance, January 2009, Clause 5.15 IEEE 1725:2006, Section 6.5.3, and Section 7.3.7	



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Rechargeable Batteries for Cellular Telephones (cont'd)	7 SAFETY TESTS (cont'd)		A
	7.3 Pack Overvoltage Protection, Verification, and Testing	CTIA Certification Requirements for Battery System Compliance, January 2009, Clause 5.47 IEEE 1725:2006, Section 6.14.5	
	7.4 Input	CTIA Certification Requirements for Battery System Compliance, January 2009, Clause 6.3 IEEE 1725:2006, Section 7.2.1	
	7.5 Overvoltage	CTIA Certification Requirements for Battery System Compliance, January 2009, Clause 6.4 IEEE 1725:2006, Section 7.2.2	
	7.6 Overcurrent	CTIA Certification Requirements for Battery System Compliance, January 2009, Clause 6.7 IEEE 1725:2006, Section 7.2.3	
	7.7 Fault Isolation and Tolerance	CTIA Certification Requirements for Battery System Compliance, January 2009, Clause 6.10 IEEE 1725:2006, Section 7.2.4, and Section 6.6.5	
	7.8 Pack Identification	CTIA Certification Requirements for Battery System Compliance, January 2009, Clause 6.11 IEEE 1725:2006, Section 7.3.2	



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Rechargeable Batteries for Cellular Telephones (cont'd)	7 SAFETY TESTS (cont'd)		A
	7.9 Algorithm Verification	CTIA Certification Requirements for Battery System Compliance, January 2009, Clause 6.12 IEEE 1725:2006, Section 7.3.3	
	7.10 Timer Fault	CTIA Certification Requirements for Battery System Compliance, January 2009, Clause 6.13 IEEE 1725:2006, Section 7.3.5	
	7.11 Communication Fault	CTIA Certification Requirements for Battery System Compliance, January 2009, Clause 6.15 IEEE 1725:2006, Section 7.3.6	
	7.12 Initiation of Charging Above Specified Voltage Threshold	CTIA Certification Requirements for Battery System Compliance, January 2009, Clause 6.16 IEEE 1725:2006, Section 7.3.8.1	
	7.13 Initiation of Charging Below Voltage Threshold	CTIA Certification Requirements for Battery System Compliance, January 2009, Clause 6.17 IEEE 1725:2006, Section 7.3.8.2	



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Information Technology Equipment	7 SAFETY TESTS (cont'd) 7.14 Safety Tests ¹ Equipment with a rated voltage not exceeding: 600 V	IEC 60950-1:2005 (Edition 2) EN 60950-1:2006 EN 60950:2006 including Amendment 11:2009 Excluding clauses 2.10.4, 2.10.9, 2.10.8.4, 2.10.12, 3.2.5.1, 4.2.8, 4.3.12, 4.3.13 and A3, 4.6.2 AS/NZS 60950-1:2003 Excluding clauses 4.7.201 and 4.3.6	A, E
Domestic Electronic Equipment	7.15 Safety Tests ¹ Equipment with a rated voltage not exceeding: 433V rms between phases 250V rms phase to neutral	IEC 60065:2001 (Edition 7) IEC 60065:2005 (Edition 7.1) EN 60065:2002 EN 60065:2002 including Amendment 1:2006 & Amendment 11:2008 Excluding clauses 6, 7, 8.18, 12.3, 13.4, 13.6, 13.7, 14.1, 14.2, 14.6 (part), 16.3(b), 18 and Annex H	A, E
Any location where the tests defined in Column 2 and to the specifications given in Column 3 can be carried out, but subject to the limitations given in <i>Note 1</i> on Page 48 Military Establishment Ships Manufacturing Sites Construction Sites Offices	8 EMC TESTS ¹ 8.1 Conducted Emissions DC to 400 MHz	BS2G100:Part 2:Section 2:1967 and Amendment 1 BS2G100:Part 2:Section 2:1972 except Compass: Safe Distance BS 1597:1985 EN 55011:1991 and 1998 including Amendment A1:1999 EN 55022:1994 including Amendment 1:1995 Amendment 2:1997	E



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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 42 PRODUCTS TESTED Electrical/electronic products Electrical installations Enclosures for electrical equipment	8 EMC TESTS¹ (cont'd)	EN 55022:1998* including Amendment 1:2000 Amendment 2:2003 and Corrigenda 1 and 2 * includes signal line where standard ISNs and CDNs can be used IEC 533:1991 Aeritalia D-PT070A020LR Issue B BAe-WAS-SP-TOR-EMC034: 1987 DEF STAN 59-41 (Part 3) Issue 1, Section 3:2003 Except Clause 9.10, 9.11, 9.13, 9.18 and 9.19	E
	8.1 Conducted Emissions DC to 400 MHz (cont'd)	DEF STAN 59-41:Issue 4: Parts 3 and 4 DEF STAN 59-41:Issue 5: Part 3 DG Ships 250B:1981 NWS 3:AL1:1981: Panavia SP-P-90003 PTARMIGAN Manual of Standards:Section 11:Issue 5 RTCA DO160A, B, C, D, E, G TS 1527:Issue 2 MIL STD 461A, B, C, D, E: EN 301 489-1:V1.8.1:2008 EN 301 489-1:V1.9.2:2011 EN 301 489-23:V1.2.1:2004	E
	8.2 Radiated Emissions E Field: 20 Hz to 26 GHz	BS2G100:Part 2:Section 2: 1967 and Amendment 1 BS2G100:Part 2:Section 2: 1972 except Compass: Safe Distance BS 1597:1985 EN 55011:1991 and 1998 including Amendment A1:1999	E



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As listed on Page 42 & 43	8 EMC TESTS¹ (cont'd)		
	8.2 Radiated Emissions (cont'd)	EN 55022:1994 including Amendment 1:1995, Amendment 2:1997 EN 55022: 1998* including Amendment 1:2000 Amendment 2:20003 and Corrigenda 1 and 2 *includes signal lines where standard ISNs and CDNs can be used BAe-WAS-SP-TOR-EMC034 1987 DEF STAN 59-41:Issue 4 Parts 3 and 4 DEF STAN 59-41:Issue 5 Part 3 DG Ships 250B:1981 NWS 3:AL/1:1981 PTARMIGAN Manual of Standards, Section 11, Issue 5 RTCA DO160A, B, C, D, E, G TS 1527:Issue 2 MIL STD 461A, B, C, D, E TUV Procedure EMC TPIS-004 EN 301 489-1:V1.8.1:2008 EN 301 489-1:V1.9.2:2011 EN 301 489-23:V1.2.1:2004	E
	8.3 Radiated Emissions H Field: 20 Hz to 30 MHz	BAe-WAS-SP-TOR-EMC034 :1987 DEF STAN 59-41:Issue 4: Parts 3 and 4 DG Ships 250B:1981 NWS 3:AL/1:1981 MIL STD 461A, B, C, D, E RTCA DO160B, C, D, E, G TÜV Procedure EMC TPIS-004	E



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As listed on Page 42 & 43	<p>8 EMC TESTS¹ (cont'd)</p> <p>8.4 Conducted Susceptibility Power Control and Signal Lines DC to 600 MHz</p> <p>Bulk Current Injection CW: 50 kHz to 400 MHz Pulsed: 500 kHz to 50 MHz</p>	<p>BS2G100:Part 2:Section 2:1967 and Amendment 1 BS2G100:Part 2:Section 2:1972 except Compass: Safe Distance ENV 50141:1993 EN 61000-4-6:1996 including Amendment 1 EN 61000-4-6:2007 including Corrigendum 1:2007 IEC 533:1991 IEC 801-6:1990 (Draft) IEC 61000-4-6:1995 (Draft) BAe-WAS-SP-TOR-EMC034: 1987 IEC 61000-4-6:ed1:1996 IEC 61000-4-6:ed 2:2003 including Amendment 1:2004 and Amendment 2:2006 IEC 61000-4-6:ed2.1:2004 IEC 61000-4-6:ed2.2:2006 DEF STAN 59-41:I (Part 3): Issue 1, Section 3:2003 DEF STAN 59-41:Issue 4 Parts 3 and 4 DEF STAN 59-41:Issue 5 Part 3 DG Ships 250B:1981 NWS 3: AL/1:1981 Panavia SP-P-90003 PTARMIGAN Manual of Standards, Section 11:Issue 5 RTCA DO160A, B, C, D, E, G TS 1527:Issue 2 MIL STD 461A, B, C, D, E EN 301 489-1:V1.8.1:2008 EN 301 489-1:V1.9.2:2011</p>	E



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As listed on Page 42 & 43	8 EMC TESTS¹ (cont'd)		
	8.5 Fast Transients/Bursts Surge	IEC 801-4:1988 EN 61000-4-4:1995 IEC 1000-4-4:1995 EN 61000-4-5:1995 including Amendment 1:2001 EN 61000-4-4:2004 including Amendment A1:2010 IEC 1000-4-5:1995 BAe-WAS-SP-TOR-EMC034 :1987 DEF STAN 59-41 (Part 3) Issue 1, Section:2003 DEF STAN 59-41:Issue 4 Parts 3 and 4 DEF STAN 59-41:Issue 5 Part 3 DG Ships 250B:1981 PTARMAGIN Manual of Standards, Section 11:Issue 5 TS 1527:Issue 2 MIL STD 461A, B, D, E EN 301 489-1:V1.8.1:2008 EN 301 489-1:V1.9.2:2011	E
	8.6 Radiated Immunity Electric Field (See Note 1)	EN 301 489-23:V1.2.1:2004 BAe-WAS-SP-TOR-EMC034 1987 DEF STAN 59-41 (Part 3) Issue 1, Section 3:2003 DEF STAN 59-41:Issue 4: Parts 3 and 4 DEF STAN 59-41:Issue 5: Part 3 DG Ships 250B:1981 NWS 3:A/L1:1981 RTCA DO160A, B, C, D, E, G MIL STD 461A, B, C, D, E EN 61000-4-6:1996 including Amendment 1: 2001 EN 301 489-1:V1.8.1:2008 EN 301 489-1:V1.9.2:2011 EN 301 489-23:V1.2.1:2004	E



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As listed on Page 42 & 43	8 EMC TESTS¹ (cont'd)		
	8.7 Radiated Immunity Magnetic Field	BAe-WAS-SP-TOR-EMC034: 1987 DEF STAN 59-41 (Part 3): Issue 1, Section 3:2003 DEF STAN 59-41:Issue 4 Parts 3 and 4 DEF STAN 59-41:Issue 5: Part 3 DG Ships 250B:1981 NWS 2:AL/1:1981 Panavia SP-P-90003 PTARMIGAN Manual of Standards: Section 11:Issue 5 RTCA DO 160A, B, C, D, E, G TS 1527:Issue 2 MIL STD 461A, B, C, D, E	E
	8.8 ESD	EN 61000-4-2:1995 IEC 60801-2:1991 IEC 61000-4-2:1995 including Amendment 1:1998 and Amendment 2:2001 DEF STAN 59-41 (Part 3) Issue 1, Section 3:2003 DEF STAN 59-41:Issue 4: Parts 3 and 4 DEF STAN 59-41:Issue 5: Part 3 DG Ships 250B:1981 MIL STD 461A, B, C, D, E EN 301 489-1:V1.8.1:2008 EN 301 489-1:V1.9.2:2011 EN 301 489-23:V1.2.1:2004	E
	8.9 Voltage Dips, Interruptions and Variations	EN 61000-4-11:1994 plus Amendment 1:2001 IEC 61000-4-11:1994 EN 301 489-1:V1.8.1:2008 EN 301 489-1:V1.9.2:2011 EN 301 489-23:V1.2.1:2004	E



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As listed on Page 42 & 43	<p>8 EMC TESTS¹ (cont'd)</p> <p>8.10 Generic EMC Standards</p> <p>These generic and similar standards are included in this Schedule, but limited to those referenced basic standards that are listed in Sections 8.1 to 8.9 of the Schedule.</p>	<p>EN 61000-6-1:2001 EN 61000-6-2:2001 EN 61000-6-2:2005 IEC 61000-6-2:ed1:1999 IEC 61000-6-2:ed2:2005 EN 61000-6-3:2001 EN 61000-6-4:2001 prEN 50093 (Draft) EN 50121-1:2000 ENV 50121-2:1996 EN 50121-2:2000 ENV 50121-3-1:1996 EN 50121-3-1:2000 EN 50121-3-1:2006 ENV 50121-3-2:1996 EN 50121-3-2:2000 ENV 50121-4:1996 EN 50121-4:2000 EN 50121-4:2006 ENV 50121-5:1996 EN 50121-5:2000 EN 12895:2000 EN 61326:1997 including Amendment 1:1998, Amendment 2:2001 and Amendment 3:2003 Lloyd's Register LR1:2002 EN 301 489-4: V1.3.1:2002 EN 61326-1:2006 EN 61000-6-2:2005 EN 300 386:V1.3.3:2005 EN 301 489-17:V2.1.1:2009</p>	E
	<p>Note 1:</p> <p>No Radiated Susceptibility testing shall be undertaken for any commercial or military specification where this would contravene the Wireless Telegraphy Act or other local regulations. This also applies to Conducted Susceptibility tests, where the combination of the level of injection and the length of cables is likely to result in contravention of the Act.</p>		



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Manufacturers' Sites Products Tested: Radio Transmitters GSM Base Stations Aeronautical Transmitting Equipment Marine Navigation Systems	9 RADIO TESTS¹ Transmission Modulation Phase Error Mean Frequency Error Transmitter Power Transmitter Power/Time Characteristics Adjacent Channel Power Switching Transient Spectrum Transmitter Spurious Emissions Intermodulation Attenuation Static Reference Sensitivity, Blocking Receiver Spurious Response, Rejection Spurious Emissions Receiver Duplex Operation	ETS 300 065:1992 ETS 300 067:1990 ETS 300 086:1991 including Amendment 2 Ed1:1997 ETS 300 113:1996 ETS 300 162:1998 ETS 300 162-1:V1.2.2:2000 ETS 300 176:1996 ETS 300 197:1994 including Amendment 2 Ed 1:1997 ETS 300 198:1994 including Amendment 1 Ed 1:1997 I-ETS 300 219:1993 EN 300 338:1998 EN 300 338:1999 V1.2.1 ETS 300 373:1995 I-ETS 300 609-1:Aug 1999 ETS 300 609-4:1999 ETS 300 630:1997 EN 300 373-1:2002 EN 300 086-1:V1.1.1:2001 EN 300 086-2:V1.2.1:2001 EN 300 113-1:V1.5.1:2003 EN 300 113-1:V1.6.1:2007 EN 300 113-2:V1.3.1:2003 EN 300 113-2:V1.4.1:2007 EN 301 021:Feb 2002 EN 301 087:Apr 1999 EN 301 087:V7.2.1:2000 EN 301 087:V8.3.0:2000 EN 301 087:V8.2.1:2000 EN 301 025-1:V1.1.1:1998 EN 301 502:V8.1.2:2001 EN 301 502:V9.1.1:2010 Clauses 5.3.1 to 5.3.16 EN 301 502:V9.2.1: 2010 Clauses 4.2.1 to 4.2.16 and 5.3.1 to 5.3.16 EN 300 698-1:V1.3.1:2003 Excluding Annex B.2.4.5 EN 300 698-1:V1.4.1:2009 Excluding Annex B EN 301 033 V1.2.1:2005 Excluding clauses 8.10 and 8.11 EN 301 908-1:V1.1.1:2001 EN 301 908-1:V2.2.1:2003	E



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As listed on Page 49	9 RADIO TESTS¹ (cont'd)	EN 301 908-2:V2.1.1:2003 EN 301 908-3:V1.1.1:2002 EN 301 908-3:V2.2.1:2003 EN 301 908-3:V3.2.1:2007 EN 301 908-3:V4.2.1:2010 EN 301 908-3:V5.1.1:2010 Draft EN 301 908-3:V5.2.1:2011 Draft EN 301 908-14:V4.1.1:2009 Clauses 4.2.2 to 4.2.10 EN 301 908-14:V4.1.2:2009 Clauses 4.2.2 to 4.2.10 EN 301 908-14:V4.2.1:2010 Clauses 4.2.2 to 4.2.10 Draft EN 301 908-14:V5.1.1: 2010: Clauses 4.2.2 to 4.2.10 EN 301 908-14:V5.2.1:2011 Clauses 4.2.2 to 4.2.10 EN 301 908-18:V5.2.1:2011 EN 301 925:V1.1.1:2002 Excluding Clauses 13.10, 13.12 to 13.14, 14.12 to 14.19, 15, 15.2 and 15.3 EN 302 544-1:V1.1.0 Draft:2008 EN 302 544-1:V1.1.2:2010 FCC CFR 47 Part 2:2011 Clauses 2.1046, 2.1047, 2.1049, 2.1051, 2.1053 and 2.1055 FCC CFR 47:Part 24:2011 Clauses 24.229, 24.232, 24.235 and 24.238 FCC CFR 47:Part 22:2011 Clauses 22.255, 22.905, 22.913 and 22.917 FCC CFR 47: Part 25:2009 Clauses 25.202(d), 25.202(f), and 25.216 TS 101 087:V8.6.0:2001 TS 101 087:V8.8.0:2003 TS 101 087:V8.9.0:2003 TS 101 087:V8.10.0:2005 TS 125 141:V3.4.1:2000 TS 125 141:V3.5.0:2001 TS 125 141:V3.8.0:2001 TS 125 141:V3.9.0:2002 TS 125 141 V4.8.0:2003 TS 151 021:V8.2.0:2009	E



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As listed on Page 49	9 RADIO TESTS¹ (cont'd)	3GPP 25 141:V3.1.0:2000 3GPP 25 141:V3.5.0:2001 3GPP 25 141:V3.6.0:2001 3GPP 25 141:V4.1.0:2001 3GPP 25 141:V4.2.0:2001 3GPP 25 141:V5.1.0:2001 3GPP 25 141:V3.9.0:2002 3GPP 36 141:V8.1.0:2008 Clauses 6.2, 6.6.2, 6.6.3, 6.6.4, 6.7, 7.5, 7.6, 7.7 & 7.8 3GPP 36 141:V8.5.0:2009 Clauses 6.2, 6.6.2, 6.6.3, 6.6.4, 6.7, 7.5, 7.6, 7.7 & 7.8 3GPP 36 141:V9.2.0:2009 Clauses 6.2, 6.6.2, 6.6.3, 6.6.4, 6.7, 7.5, 7.6, 7.7 & 7.8 3GPP 36 141:V9.5.0:2010 Clauses 6.2, 6.6.2, 6.6.3, 6.6.4, 6.7, 7.5, 7.6, 7.7 & 7.8 3GPP 36 141:V9.9.0:2011 Clauses 6.2, 6.6.2, 6.6.3, 6.6.4, 6.7, 7.5, 7.6, 7.7 & 7.8 3GPP 36 141:V10.1.0:2010 Clauses 6.2, 6.6.2, 6.6.3, 6.6.4, 6.7, 7.5, 7.6, 7.7 & 7.8 3GPP 51.021:V8.2.0:2009 Clauses 7.3 and 7.5 3GPP 51.021:V8.4.0:2009 Clauses 6.2, 6.3, 6.4, 6.5.1, 6.5.2, 6.6.1, 6.6.2, 6.7, 6.8, 7.3 to 7.9 3GPP 51.021:V8.5.0:2009 Clauses 6.2, 6.3, 6.4, 6.5.1, 6.5.2, 6.6.1, 6.6.2, 6.7, 6.8, 7.3 to 7.8 3GPP 51.021:V8.7.0:2010 Clauses 6.2, 6.3, 6.4, 6.5.1, 6.5.2, 6.6.1, 6.6.2, 6.7, 6.8, 7.3 to 7.8 3GPP 51.021:V9.3.0:2010 Clauses 6.2, 6.3, 6.4, 6.5.1, 6.5.2, 6.6.1, 6.6.2, 6.7, 6.8 7.3 to 7.8 3GPP 51.021:V9.7.0:2010 Clauses 6.2, 6.3, 6.4, 6.5.1, 6.5.2, 6.6.1, 6.6.2, 6.7, 6.8 7.3 to 7.8	E



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As listed on Page 49	9 RADIO TESTS¹ (cont'd)	FCC CFR 47:Part 87:2007 Clauses 87.131, 87.133, 87.135, 87.137, 87.139 and 87.141 IEC 60945:2002 Clauses 5.2.3, 7.1, 7.2, 8.2, 8.3, 8.4, 8.6, 8.7 and 8.8 EN 61023:2000 IEC 61023:2000 IEC 62287-1: ed 2:2010 ISO 22090-3, Clause 6.7 (Draft):2002 RSS-133:Issue 5:Feb2009 TS 125 113:V8.3.0:2008 TS 125 141:V3.12.0:2002 TS 125 141:V5.4.0:2002 excluding Clauses 8.8, 8.9 and 8.10 TS 125 141:V5.5.0:2003 excluding Clauses 8.8, 8.9 and 8.10 TS 125 141 V5.7.0:2003 excluding Clauses 6.4.5 and 6.7.3 TS 125 141 V5.9.0:2004 excluding Clauses 6.4.5 and 6.7.3 TS 125 141:V6.2.0:2003 TS 125 141:V6.4.0:2004 TS 125 141:V6.7.0:2005 TS 125 141:V6.9.0:2005 TS 125 141:V6.10.0:2005 TS 125 141:V6.11.0:2005 TS 125 141:V6.19.0:2008 TS 125 141:V7.11.0:2008 excluding clauses 6.7.4, 8.5A, 8.8.2 and 8.8.5 TS 125 141:V8.3.0:2008 excluding clauses 6.7.4, 8.5A, 8.8.2 and 8.8.5 3GPP 25.141:V8.9.0:2009 excluding clauses 6.7.4, 8.5A, 8.8.2 and 8.8.5 3GPP 25.141:V9.5.0:2010 excluding clauses 6.7.4, 8.5A, 8.8.2 and 8.8.5	E



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As listed on Page 49	9 RADIO TESTS¹ (cont'd)	3GPP 25.141:V3.12.0 3GPP 25.141:V5.4.0:2002 excluding Clauses 8.8, 8.9 and 8.10 3GPP 25 141:V3.5.0:2003 excluding Clauses 8.8, 8.9 and 8.10 3GPP TS 25.141:V4.8.0: Release 4 3GPP TS 25.141:V5.9.0 3GPP TS 25 141:V6.2.0 3GPP TS 25 141:V6.4.0: Release 6 3GPP TS.25.141:V7.6.0 3GPP TS 37.141:V9.3.0 Clauses 6.2, 6.6.2, 6.6.3, 6.6.4, 6.7, 7.4 to 7.7 only 3GPP TS 37.141:V9.4.0 Clauses 6.2, 6.6.2, 6.6.3, 6.6.4, 6.7, 7.4 to 7.7 only 3GPP TS 37.141:V10.4.0 Clauses 6.2, 6.6.2, 6.6.3, 6.6.4, 6.7, 7.4 to 7.7 only EN 302 326-1:V1.1.1:2005 EN 302 326-2:V1.1.2:2006 EN 302 326-2:V1.2.1:2007 EN 302 326-2:V1.2.2:2007 EN 300 328:V1.7.1:2006 C-IS2035-0:2002 and 2007 EN 301 126-2-3:V1.2.1:2004 EN 301 390:V1.2.1:2003 FCC CFR 47:Part 27:2011 Clauses 27.50, 27.53 & 27.54 Limited to 1710-1755MHz and 2110-2155MHz TELEC 112:2008 (Final draft) CCNR Ed 1.01:2007 including Edition 1:2008 RSS-139 issue 2:2009 Excluding Clause 5.2 FCC CFR 47:Part 90:2011, Clauses 90.201 to 90.219	E



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Marine Navigation Systems	10 TESTS ON MARINE EQUIPMENT¹	EN 61108-1:1996 IEC 60945:1994 Sub-clauses 4.4.2, 4.4.3, 4.4.4, 4.4.7 and 4.4.8 IEC 60945:2002 Clauses 5.2.3, 7.1, 7.2, 8.2, 8.3, 8.4, 8.6, 8.7 and 8.8 IEC 60936-2:1998, Clauses 4.18.2.3, 4.18.2.4 and 4.18.2.5 only EN ISO 9875:1997 ISO 9875:2000 Accreditation for these specifications only applies when testing is performed at UKAS approved site	E
	10.1 Automatic Identification Systems	IEC 62287-1:2010 IEC 61993-2:2001 EN 61097-14:2010 (all clauses) EN 62230-1:2007 + A1:2009 EN 62230-2:2008	A, E
Variable Message Signs	11 VISUAL PERFORMANCE TESTS	EN 12966-1:2005 Clause 7 EN 12966-2:2005 Clause 5.3, Visual performance requirements	E
¹ Development of additional test methods or test standards within the accredited types of tests allowed.			
END			