

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 5772 Accredited to ISO/IEC 17025:2017	UL International (UK) Ltd Issue No: 053 Issue date: 21 February 2024	
	Unit 1 - 4 Horizon Kingsland Business Park Wade Road Basingstoke Hampshire RG24 8AH	Contact: Mr. Neil Friggi Tel: +44 (0)1256 312100 Fax: +44 (0)1256 312001 Email: Neil.Friggi@ul.com Website: www.ul-europe.com
Testing performed by the Organisation at the locations specified		

Flexible Scope

The Flexible Scope applies to the laboratory's accreditation to ISO/IEC17025:2017 and GEN 4:2019 for testing activities in accordance with the standards listed in the schedule for EMC, Radio, SAR and CRS and BLST (TEL site only) – internal procedure Standard Operation Procedures-ULID-006194. This may also include tests on the same or similar product types against standards, or customer-specified methods, that are not specifically listed in this Schedule, providing that:

(1) The method or standard does not introduce new principles of measurement. (2) The method or standard does not require measurements to be made outside the parametric boundaries defined in this Schedule.



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Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address: Am Oberfeld 19 83026 Rosenheim Germany	Fire Testing	ROS
Address Plot 4 Halesfield 2 Telford Shropshire TF7 4QH	Built Environment Curtain walling Doors Glazing Rainscreens Windows	TEL
Address Unit 1 - 4 Horizon Kingsland Business Park Wade Road Basingstoke Hampshire RG24 8AH	Consumer Retail Service (CRS) Consumer Technology (CTECH) 1. EMC 2. Radio 3. SAR 4. Bluetooth® 5. Safety Identity Management & Security (IMS) Transactional Services Information Technology Security Testing	BSK

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Site activities performed away from the locations listed above:

Location details	Activity	Location code
Chilbolton Observatory site Drove Road Stockbridge SO20 6BJ	EMC (FCC)	D
All locations suitable for the activities listed	Curtain walling Rainscreens	E
Test facilities operated by the customer	Weathertightness tests Security tests	F



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DETAILS OF ACCREDITATION

TABLE 1: BUILT ENVIRONMENT (BE) TELFORD

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BUILDING HARDWARE - emergency exit devices operated by a lever handle or push pad, for use on escape routes;	Temperature test Release tests Re-engaging test Durability test Abuse resistance test – operating element Abuse resistance test – vertical rods Security test Final examination Corrosion test	BS EN 179:2008	TEL
BUILDING HARDWARE - panic exit devices operated by a horizontal bar, for use on escape routes;	Temperature test Release tests Re-engaging test Durability test Abuse resistance test – horizontal bar Abuse resistance test – vertical rods Final examination Corrosion test	BS EN 1125:2008	TEL
BUILDING HARDWARE - controlled door closing devices;	Calculation of opening / closing moments Calculation of efficiency Closing time Closing overload Cycling Corrosion resistance Operation at extremes of temperature Free play	BS EN 1154:1997+A1:2002	TEL
BUILDING HARDWARE - single-axis hinges	Measurements Load-deformation Overload Shear strength Endurance Corrosion resistance	BS EN 1935:2002	TEL



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BUILDING HARDWARE - mechanically operated locks and locking plates; latch bolts only	Return force of latch bolt Minimum follower restoring torque Resistance to side force on latch bolt Torque to operate the lock Strength of follower stops Durability of latch action without force applied Durability of latch action with force applied Door closing force Operation at extremes of temperature Corrosion resistance	BS EN 12209:2016	TEL
BUILDING HARDWARE - electrically powered hold-open devices for swing doors	Settleback at 90° hold open Manual release Electrical release Temperature rise Opening overload Durability Continuous hold-open Salt spray	BS EN 1155:1997+A1:2002	TEL
BUILDING HARDWARE - multi-axis concealed hinge assemblies	Friction torque Load deformation Overload Initial measurements and durability Corrosion resistance	EAD 020001-01-0405	TEL
BUILDING HARDWARE	Corrosion resistance - neutral salt spray	BS EN 1670:2007 BS EN ISO 9227:2017	TEL



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Windows and doors, curtain walling, rainscreen cladding systems and components, glass and glazing	A flexible scope including: Weathertightness, durability and security tests to technically equivalent test methods and updated versions of standards for which the laboratory is accredited and any combination of the above, within the ranges of: Force up to 20.0 kN Water pressure up to 4 bar Differential air pressure up to 500 Pa on site and 10 kPa in laboratory Torque up to 200 Nm Gas flowrate up to 360m ³ /hr Liquid flowrate up to 20,000 l/h Dimensions including height, width and depth up to 10m Mass up to 300 kg	Documented In-House Methods developed using TP14	TEL & E
EXTERIOR WALLS	Weathertightness	AAMA 501-15	TEL & F
	Air leakage	ASTM E 283-04(2012)	TEL & F
	Water penetration	ASTM E 331-00(2016)	TEL & F
	Structural performance	ASTM E 330/330M-14	TEL & F



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CURTAIN WALLING	Impact resistance of opaque wall components - hard body impact tests	BS 8200:1985	TEL
	Impact resistance of opaque wall components - soft body impact tests	BS 8200:1985	TEL
	Impact resistance	BS EN 14019:2016 BS EN 13049:2003	TEL
	Air permeability	BS EN 12153:2000	TEL & F
	Watertightness under static pressure	BS EN 12155:2000	TEL & F
	Resistance to wind loading	BS EN 12179:2000	TEL & F
	Watertightness under dynamic condition of air pressure and water spray	BS EN 13050:2001	TEL
	Watertightness	BS EN 13051:2001	TEL & E
	Dynmic water penetration	AAMA 501.1:1994	TEL & F
	Field hose test	AAMA 501.2-15	TEL & E



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CURTAIN WALLING RAINScreens SLOPE GLAZING	Air leakage	CWCT Standard for Systemised Building Envelopes and Standard Test Methods for Building Envelopes, December 2005 Section 5	TEL & F
	Water penetration - static method	Section 6	TEL & F
	Water penetration - dynamic aero engine test	Section 7	TEL & F
	Water penetration - hose test	Section 9	TEL & E
	Water penetration - spray bar test	Section 10	TEL & E
	Wind resistance serviceability	Section 11	TEL & F
	Wind resistance - safety	Section 12	TEL & F
	Impact tests	Section 15 CWCT Technical Note No 76	TEL & E
	Wind Load test	Building Department – Hong Kong - Code of Practice for the Structural Use of Glass – 2018 (Clause 8.3.1) (Building Department – Practice Note for Authorized Persons, Registered Structural Engineers and Registered Geotechnical Engineers – APP-37 (May 2020) Cl. 22., Cl. 23. And App. A Section C. Testing)	TEL & F
GLAZED ROOFING	Safety and fragility tests - temperature range 20 °C to 40 °C	CWCT Technical Note No 67	TEL



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WINDOWS	Operating forces	BS 6375-2:2009 BS EN 12046-1:2003 BS EN 13115:2001	TEL
	Soft and heavy body impact	BS 6375-2:2009 BS EN 13049:2003	TEL
	Resistance to racking	BS 6375-2:2009 BS EN 14608:2004 BS EN 13115:2001	TEL
	Resistance to static torsion	BS 6375-2:2009 BS EN 14609:2004 BS EN 13115:2001	TEL
	Strength of safety devices	BS 6375-2:2009 BS EN 14609:2004 as modified by Documented In-House Method No TP7 BS EN 14351-1:2006 A2:2016	TEL
WINDOWS - sliding and lift and slide windows and door height windows	Resistance to repeated opening and closing - part cycles	BS 6375-2:2009 BS EN 1191:2012 Annex B Clause B.4.2	TEL
WINDOWS - vertical sliding windows	Resistance to repeated opening and closing	BS 6375-2:2009 BS EN 1191:2012 Annex F as modified by Documented In-House Method No TP11	TEL
WINDOWS - fold and slide windows and door-height windows	Resistance to repeated opening and closing - part cycles	BS 6375-2:2009 BS EN 1191:2012 Annex D Clause D.3.2	TEL



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<p>WINDOWS: SINGULAR and MULTILIGHT</p> <ul style="list-style-type: none"> - top hung, side hung, bottom hung, butt hinged - top and side hung projected - top hung and side hung fully reversible - tilt and turn and turn and tilt - vertical and horizontal sliding - fixed and fixed casements (dummy vents) - parallel opening - double opening (French windows) - vertical and horizontal pivot 	<p>Manipulation test</p> <p>Infill medium removal</p> <ul style="list-style-type: none"> - manual test <p>Infill medium removal</p> <ul style="list-style-type: none"> - mechanical test <p>Mechanical loading test</p> <p>Manual check test</p>	PAS 24:2016	TEL & F
WINDOWS and DOORS	Weathertightness	BS 6375-1:2015+A1:2016	TEL & F
	Air permeability	BS 6375-1:2015+A1:2016 BS EN 1026:2016	TEL & F
	Watertightness	BS 6375-1:2015+A1:2016 BS EN 1027:2000 BS EN 1027:2016	TEL & F
	Resistance to wind load	BS 6375-1:2015+A1:2016 BS EN 12211:2016	TEL & F
	Basic security test	BS 6375-3:2009+A1:2013	TEL
	Resistance to repeated opening and closing	BS EN 1191:2000 (withdrawn)	TEL
	Resistance to vertical load	BS 6375-2:2009 BS EN 947:1999 BS EN 1192:2000	TEL
	Resistance to static torsion	BS 6375-2:2009 BS EN 948:1999 BS EN 1192:2000	TEL
	Resistance to soft and heavy body impact	BS 6375-2:2009 BS EN 949:1999 BS EN 1192:2000	TEL



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
DOORS	Resistance to hard body impact	BS 6375-2:2009 BS EN 950:1999 BS EN 1192:2000	TEL
	Operating forces	BS 6375-2:2009 BS EN 12046-2:2000 BS EN 12217:2015	TEL
	Safety devices	BS 6375-2:2009 BS EN 948:1999 as modified by Documented In-House Method No TP7 BS EN 14351-1:2006 A2:2016	TEL
	Closure against obstruction	BS 6375-3:2009+A1:2013	TEL
DOORS - side-hung single and double leaf pedestrian doorsets, excluding power operated doors and double leaf pedestrian doorsets with self closing devices	Resistance to repeated opening and closing	BS 6375-2:2009 BS EN 1191:2012 Annex H Clauses H.4.1.1 and H.4.1.2	TEL
DOORSETS - single and double leaf - single and double swing - hinged - sliding (single and multi-track) - pivot - folding sliding (single and multi-track) - stable - with or without integral side panels and fanlights	Manipulation test Infill medium removal - manual test Infill medium removal - mechanical test Manual cutting test Mechanical loading test Manual check test Soft body impact test Hard body impact test Security hardware and cylinder test - Part 1 - Part 2	PAS 24:2016	TEL & F
Wire and Cable	Tests on electric and optical fibre cables under fire conditions	EN60332-1-2: 2004 +A12:2020	TEL



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TABLE 2: BUILT ENVIRONMENT (BE) TELFORDNOTIFIED LAB

Accreditation for the purpose of UK Approved Body Activity in accordance with UKCA Requirements and UKAS Publication GEN 5			
Directive / Regulation	Conformity Assessment Procedure / Module / Article	Category of products or individual products	Essential Requirements: Product Specification / Properties / Standards
Construction Products Regulation 2011 (retained EU law EUR 305/2011) as amended by the Construction Products (Amendment etc.) (EU Exit) Regulations 2019 and the Construction Products (Amendment etc.) (EU Exit) Regulations 2020. The Construction Products Regulation 2011 (retained EU law EUR 305/2011) as amended by the Construction Products (Amendment etc.) (EU Exit) Regulations 2019 and the Construction Products (Amendment etc.) (EU Exit) Regulations 2020	Testing Laboratory Attestation System 3 - including testing away from site (Article 46)	Curtain wallings (1/1): Curtain wall kits (as external walls not subject to reaction to fire requirements), Curtain wall kits (as external walls subject to reaction to fire requirements) 96/580/EC	EN 13830:2003
	Testing Laboratory Attestation System 3 - including testing away from site (Article 46)	Doors, windows, shutters, blinds, gates and related building hardware (1/1): Windows (with or without related hardware) (any other), Doors and gates (with or without related hardware) (other declared specific uses and/or uses subject to other specific requirements, in particular noise, energy, tightness and safety-in-use (i.e. NOT for fire/smoke compartmentation, NOT for escape routes)) 99/93/EC	EN 14351-1:2006+A2:2016
	Testing Laboratory Attestation System 3	Power, control and communication cables - Cables for general applications in construction works subject to reaction to fire requirements	EN 50575:2014 +A1:2016 (tests according to EN 60332-1-2:2004+A12:2020)



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TABLE 3: BUILT ENVIRONMENT (BE) ROSENHEIM

Accreditation for the purpose of Notified Body Activity relating to the Northern Ireland market (CE + UKNI) taking into account EA-2/17			
Directive / Regulation	Conformity Assessment Procedure / Module / Article	Category of products or individual products	Essential Requirements: Product Specification / Properties / Standards
The Construction Products Regulation (EU) No 305/2011	Testing Laboratory Attestation System 3 - including testing away from site (Article 46)	Curtain wallings (1/1): Curtain wall kits (as external walls not subject to reaction to fire requirements), Curtain wall kits (as external walls subject to reaction to fire requirements) 96/580/EC	EN 13830:2003
	Testing Laboratory Attestation System 3 - including testing away from site (Article 46)	Doors, windows, shutters, blinds, gates and related building hardware (1/1): Windows (with or without related hardware) (any other), Doors and gates (with or without related hardware) (other declared specific uses and/or uses subject to other specific requirements, in particular noise, energy, tightness and safety-in-use (i.e. NOT for fire/smoke compartmentation, NOT for escape routes)) 99/93/EC	EN 14351-1:2006+A2:2016
The Construction Products Regulation (EU) No 305/2011	Testing Laboratory Attestation System 3	Power, control and communication cables - Cables for general applications in construction works subject to reaction to fire requirements	EN 50575:2014 +A1:2016 (tests according to EN 60332-1-2:2004 +A12:2020)



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BUILDING MATERIALS and STRUCTURES	Fire resistance tests (General)	EN 1363-1: 2012 EN 1363-1: 2020 EN 1363-2: 1999 ENV 1363-3: 1999 BS 476-20: 1987 AS 1530.4:2014 (Sections 1 & 2) UL 263	ROS
AIR TRANSFER GRILLS	Fire Resistance Tests for Non-loadbearing Elements	EN 1364-5:2017	ROS
PENETRATION SEALS	Fire Resistance	EN 1366-3: 2009 UL 1479 ASTM E814 AS 1530.4:2014 Section 10	ROS
LINEAR JOINT SEALS	Fire Resistance	EN 1366-4:2006+A1:2010 UL 2079 ASTM E1966	ROS
FLOORS AND ROOFS	Fire Resistance	EN 1365-2: 2014 BS EN 1364-2:2018 AS 1530.4:2014 Section 4	ROS
BEAMS	Fire Resistance	BS EN 1365-3:2000	ROS
COLUMNS AND BEAMS	Fire Resistance (applied protection to concrete members)	EN 13381-3: 2015	ROS
COLUMNS AND BEAMS	Fire Resistance (applied passive protection products to steel member)	EN 13381-4: 2013	ROS
WALLS AND PARTITIONS	Fire Resistance (applied protection to concrete /profiled sheet steel composite members)	EN 13381-5: 2014	ROS



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
PROTECTIVE CURTAIN ASSEMBLIES	Fire Resistance - Protective Curtain Assemblies	UL 10D	ROS
WALLS	Fire resistance - Non-load bearing walls,	BS EN 1364-1:2015 AS 1530.4:2014 Section 3	ROS
WALLS & LOAD BEARING ELEMENTS	Fire resistance - Load bearing walls,	BS 476-21:1987 BS EN 1365-1:2012	ROS
DOORS & SHUTTER ASSEMBLIES	Fire resistance tests to door sets and shutter assemblies.	UL 10B UL 10C BS EN 1634-1:2014+A1:2018 AS1530.4:2014 Section 7	ROS
COLUMNS	Fire Resistance (applied protection to concrete filled hollow steel columns)	EN 13381-6: 2012	ROS
BEAMS	Fire Resistance (applied protection to timber members)	ENV 13381-7: 2014	ROS
COLUMNS AND BEAMS	Fire Resistance (applied reactive protection to steel members)	EN 13381-8: 2013	ROS
BEAMS	Fire Resistance (applied fire protection systems to steel beams with web openings)	EN 13381-9: 2015	ROS
BEAMS	Fire Resistance (loadbearing elements of construction, beams)	BS 476-21: 1987	ROS
COLUMNS	Fire Resistance (loadbearing elements of construction, columns elements of construction)	BS 476-21: 1987 UL 263 UL 1709 ASTM E119	ROS



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WALLS AND PARTITIONS	Fire Resistance (curtain walling, part configuration)	EN 1364-4: 2014	ROS
UNINSULATED GLAZING	Fire resistance for uninsulated glazing	AS1530.4:2014 Section 8	ROS
BUILDING MATERIALS and STRUCTURES	<p>Reaction to Fire</p> <p>Non-combustibility test</p> <p>Determination of the gross heat of combustion (calorific value)</p> <p>Thermal attack by a single burning item</p> <p>Impingement of single-flame source test</p> <p>Burning behaviour using a radiant heat source</p>	<p>Methods of test required for the Fire classification of construction products and building elements (BS EN 13501-1:2018) using data from the reaction to fire tests detailed below.</p> <p>BS EN ISO 1182:2010</p> <p>BS EN ISO 1716:2018</p> <p>BS EN 13823:2020</p> <p>BS EN ISO 11925-2:2010</p> <p>BS EN ISO 9239-1:2010</p>	ROS
FLOORINGS	Reaction to fire tests for floorings. Determination of the burning behaviour using a radiant heat source	EN ISO 9239-1:2010	ROS
BUILDING PRODUCTS	Reaction to fire tests. Ignitability of products subjected to direct impingement of flame. Single-flame source test	<p>EN ISO 11925-2:2010</p> <p>EN ISO 11925-2:2020</p>	ROS



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BUILDING PRODUCTS	Reaction to fire tests for products - Determination of the gross heat of combustion (calorific value)	BS EN ISO 1716:2010 EN ISO 1716:2018	ROS
BUILDING PRODUCTS	Reaction to fire tests for building products. Building products excluding floorings exposed to the thermal attack by a single burning item	EN 13823:2010+A1:2014 (withdrawn) EN 13823:2020	ROS
BUILDING PRODUCTS	Reaction to fire tests for products. Non-combustibility test	EN ISO 1182:2010 AS 1530.1:1994	ROS
BUILDING PRODUCTS	Extended application for fire classification - guidelines for direct and extended application for Reaction to Fire	EN 15725:2010 Annex A Reaction to Fire - CEN/TS 15117:2005	ROS



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Table 4: CONSUMER AND RETAIL SERVICES (CRS) BASINGSTOKE

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
TOYS AND TOY PACKAGING	Mechanical and physical properties	EN 71-1:2014 +A1:2018 Excluding clauses: 4.14 Toys which a child can enter 4.15 Toys intended to bear the mass of a child 4.15.1.5 Braking 4.16 Heavy immobile toys 4.17 Projectile toys 4.18 – Inflatable aquatic ride-on toys with a maximum dimension larger than 1,2 m 4.20 Acoustics 4.23 Magnets 4.24 Yo Yo balls 4.26 Disguise costumes 4.27 Flying toys 5.4 Cords, chains and electrical cables in Toys 8.4.2.4 Suction cup test method	BSK
TOYS AND TOY MATERIALS (excluding flammable gases, liquids and solids)	Flammability	EN 71-2:2020 EN 71-2:2011 + A1:2014 AS/NZS ISO 8124-2:2016 ISO 8124-2:2014 for the clauses detailed below 4.1 General requirements Cellulose nitrate & surface flash	BSK
CHILDCARE Soothers	<u>Mechanical and Physical</u>	EN 1400:2013 + A2: 2018 excluding clauses: 9.6.2 Rotational endurance 10.4 Nitrosamines 10.5 MBT 10.6 BPA 10.7 Colour fastness 10.8 Volatile compounds	BSK
WRITING AND MARKING INSTRUMENTS	<u>Mechanical and Physical</u>	BS 7272-1:2008 BS 7272-2:2008 + A1:2014	BSK



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Table 5: IDENTITY MANAGEMENT & SECURITY (IMS) BASINGSTOKE

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Contactless Terminals	Transactional Services		
	Level 1 Analogue test Test Tool: UL Test Bench TB21	Specification: EMV®* Contactless Specifications for Payment Systems Book D EMV Contactless Interface Specification Version 3.0 February 2018 Technique used: EMVCo Type Approval Contactless Terminal Level 1 PCD Analogue Test Bench and Test Case Requirements Version 3.0a February 2019	BSK
	Level 1 Digital test Test Tool: Micropross MP500 TCL3	Specification: EMV®* Contactless Specifications for Payment Systems Book D EMV Contactless Interface Specification Version 3.0 February 2018 Technique used: EMVCo Type Approval Contactless Terminal Level 1 PCD Digital Test Bench and Test Case Requirements Version 3.0a February 2019	BSK
	Interoperability test Test Tool: UL Test Bench TB518	EMV Terminal Type Approval PCD Level 1 Interoperability Testing Requirements Version 1.2, December 2019	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Contactless Smart Cards supporting EMV Payment Applications	Transactional Services (cont'd) Level 1 Analogue test Test Tools : UL Test Bench TB452	Specification: EMV®* Contactless Specifications for Payment Systems Book D EMV Contactless Interface Specification Version 3.0 February 2018 Technique used: EMV Contactless Specifications for Payment Systems EMVCo Contactless Type Approval: PICC Analogue Test Bench and Test Case Requirements Version 3.0a February 2018	BSK
Contactless Smart Cards supporting EMV Payment Applications	Level 1 Analogue test (cont'd) Test Tools : Micropross Contactless Test Station TB433/TB434	Specification: EMV®* Contactless Specifications for Payment Systems Book D EMV Contactless Communication Protocol Specification Version 2.6, March 2016 Technique used: EMV Contactless Specifications for Payment Systems EMVCo Contactless Type Approval: PICC Analogue Test Bench and Test Case Requirements Version 2.6b December 2016 Specification: EMV®* Contactless Specifications for Payment Systems Book D EMV Contactless Communication Protocol Specification Version 2.5, March 2015 Technique used: EMV Contactless Specifications for Payment Systems EMVCo Contactless Type Approval: PICC Analogue Test Bench and Test Case Requirements Version 2.5a November 2015	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Contactless Smart Cards supporting EMV Payment Applications (cont'd)	Transactional Services (cont'd) Level 1 Analogue test (cont'd)	Specification: EMV®* Contactless Specifications for Payment Systems Book D EMV Contactless Communication Protocol Specification Version 2.3.1, November 2013 Technique used: EMV Contactless Specifications for Payment Systems EMVCo Contactless Type Approval: PICC Analogue Test Bench and Test Case Requirements Version 2.3.1a November 2013	BSK
Contactless Smart Cards supporting EMV Payment Applications	Level 1 Digital test Test Tool: Micropross MP500 TCL3	Specification: EMV®* Contactless Specifications for Payment Systems Book D EMV Contactless Interface Specification Version 3.0 February 2018 Technique used: EMVCo PICC Level 1 Protocol Digital Test Cases PICC Digital Test Bench and Test Case Requirements Version 3 0a February 2019 Specification: EMV®* Contactless Specifications for Payment Systems Book D EMV Contactless Communication Protocol Specification Version 2.6, March 2016 Technique used: EMVCo PICC Level 1 Protocol Digital Test Cases PICC Digital Test Bench and Test Case Requirements Version 2.6b December 2016	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Contactless Smart Cards supporting EMV Payment Applications (cont'd)	Transactional Services (cont'd) Level 1 Digital test (cont'd)	Specification: EMV®* Contactless Specifications for Payment Systems Book D EMV Contactless Communication Protocol Specification Version 2.5, March 2015 Technique used: EMVCo PICC Level 1 Protocol Digital Test Cases PICC Digital Test Bench and Test Case Requirements Version 2.5a November 2015 Specification: EMV®* Contactless Specifications for Payment Systems Book D EMV Contactless Communication Protocol Specification Version 2.3.1, November 2013 Technique used: EMVCo PICC Level 1 Protocol Digital Test Cases Version 2.3.1a November 2013	BSK
EMVCo Contact Payment Terminal	Functional application testing EMVCo Contact Level 2 Terminal Test Tools: FIME EVAL Platform Smartware x-Core Series Galitt KaNest@-ICC Galitt Simcos@ 2.3_ali_4 ICC Solutions IccSimTMat ICC Solutions Java Card	Book 1 - Application Independent ICC to Terminal Interface Requirements Version 4.3 Book 2 - Security and Key Management Version 4.3 Book 3 - Application Specification Version 4.3 Book 4 - Cardholder, Attendant, and Acquirer Interface Requirements EMVCo Type Approval Terminal Level 2 Test Cases Version 4.3h	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Contact Smart Cards supporting EMV Payment Applications (cont'd)	Application Testing (i.e. Level 1 – Electrical and Protocol) TestTools: Micropross MICR.T.L1E.0110 Clear2Pay INTE.T.L1P.0175 FIME FISA.T.LIP. 0245 Micropross MP300 TC3	EMVCo Card Type Approval Card Level 1 Electrical and Protocol Test Cases Version 4.3.a November 2012 EMV Integrated Circuit Card Specifications for Payment Systems Book 1, Application Independent ICC to Terminal Interface Requirements, version 4.3, November 2011 EMV Integrated Circuit Card Specifications for Payment Systems Book 2, Security and Key Management, version 4.3, November 2011 EMV Integrated Circuit Card Specifications for Payment Systems Book 3, Application Specification, version 4.3, November 2011 EMV Integrated Circuit Card Specifications for Payment Systems Book 4, Cardholder, Attendant, and Acquirer Interface Requirements, version 4.3, November 2011	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Contact Smart Cards supporting Visa Smart Debit/ Credit Applications	Transactional Services (cont'd) Application Testing Level 2 Test Tools: Omnikey 5321 Gemalto GemPC USN SCM SD10, SD11 ICC Solutions VSDC v1.5.4b_2Add ICC Solutions VSDCv 1.4_b ICC Solutions VCPS_2_2a_R02 Gemalto GEMPC USB Gemalto PC USB-TR ICC Solutions VSDC v1.6.1_R02	Card Testing Requirements for Visa Integrated Circuit Card Specification Version 1.5.4 Card Image Requirements, Version 1.5.4b, May 2014 Card Testing Requirements for Visa Integrated Circuit Card Specification Version 1.5 Functional Testing Requirements-Supplemental, Version 1.5.4b, September 2017 Card Testing Requirements for Visa Integrated Circuit Card Specification Version 1.5 Functional Testing Requirements, Version 1.5.4b, May 2014 Visa Integrated Circuit Card Specification (VIS) 1.5 Updates List, Version 5, January 2016 Visa Integrated Circuit Card Specification (VIS), Version 1.5, May 2009 Visa Integrated Circuit Card, Card Specification, Version 1.4.1, June 2008 Visa Integrated Circuit Card, Terminal Specification, Version 1.4.0, October 2001 Visa Integrated Circuit Card, Application Overview Specification, Version 1.4.0, October 2001 Visa Integrated Circuit Card Specification (VIS) 1.4.1 Updates List, Version 1.0, March 2009 Personalization Requirements for Testing and Approval of Visa Smart Debit/Credit Applications Compliant with VIS 1.4.0, Version 2.0, January 2006	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Contact Smart Cards supporting Visa Smart Debit/ Credit Applications (cont'd)	Transactional Services (cont'd)	<p>Test Plan for Visa Integrated Circuit Card Specification (VIS) 1.4.0 Visa Smart Debit/Credit, Books 1 to 4, Version 2.0, January 2006</p> <p>Visa Integrated Circuit Card Specification (VIS), Version 1.6, January 2016</p> <p>Visa Integrated Circuit Card Specification (VIS) 1.6 Updates List, Version 1, March 2016</p> <p>VISA Smart Debit and Credit (VSDC) Personalization Specification - Requirements for Common Personalization of VIS 1.6 and VCPS 2.2. Applications, Version 2.1, January 2016</p> <p>VISA VIS 1.6.1a R02 Regression and Transaction Test List, Version 1.6.1a_R02, February 2017</p> <p>Visa VIS 1.6.1a Test Plan Package Release R02, Version 1.0, March 2017</p>	BSK
Contactless Smart Cards supporting Visa Contactless Payment Application	<p>Application Testing Level 2</p> <p>Test Tools: Omnikey 5321 SCM SD10, SD11 ICC Solutions VCPS_2.1.3b_R_01_Upd02 ICC Solutions VCPS_2.1.2.b_CPA_1</p>	<p>Visa Contactless Payment Specifications Functional Testing Requirements, Book 1, Parts 1-3, Version 2.1.3b_R_01, December 2015</p> <p>Visa Contactless Payment Specifications Card Images, Book 2, Parts 1-4, Version 2.1.3b_R_01, December 2015</p> <p>Visa Contactless Payment Specifications Functional Test Batches, Book3, Version 2.1.3b_R_01, December 2015</p>	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Contactless Smart Cards supporting Visa Contactless Payment Application (cont'd)	<p>Application Testing Level 2 (cont'd)</p> <p>Test Tools: Omnikey 5321 SCM SD10, SD11 ICC Solutions VCPS_2.1.3b_R_01_Upd02 ICC Solutions VCPS_2.1.2.b_CPA_1</p>	<p>Visa Contactless Payment Specifications with CPA Card Images, Book 8, Parts 1-3, Version 2.1.2b_R_04, February 2015</p> <p>Visa Contactless Payment Specifications with Common Payment Application Functional Testing Requirements, Books 7, Parts 1-3, Version 2.1.2b_R_04, February 2015</p> <p>Visa Contactless Payment Specification (VCPS), Version 2.1, May 2009</p> <p>Visa Contactless Payment Specification (VCPS), Version 2.2, January 2016</p> <p>VISA Smart Debit and Credit (VSDC) Personalization Specification – Requirements for Common Personalization of VIS 1.6 and VCPS 2.2 Applications, Version 2.1, January 2016</p> <p>Visa VCPS 2.2a Test Plan Package Release R02 Version 1.0, March 2017</p> <p>VISA VCPS 2.2a R02 Regression and Transaction Test List, 2.2_R02_00, February 2017</p>	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Security of IT Products and Systems	Information Technology Security Testing	Common Criteria (CC) 3.1 (ISO/IEC 15408) CEM version (ISO/IEC 18045) EAL1 to EAL5 ALC_DVS.2 AVA_VAN.5 EAL_POI AVA_POI CESG Test Laboratories General Operational Requirements: V2.1	BSK
Smartcards (Contact and Contactless) <ul style="list-style-type: none"> Application (Brand) Common-Core Payment Application (EMVCo) Platform 	Security evaluation of Smartcards (Contact and contactless)	Joint Interpretation Library (JIL) - Attack methods for smartcards and similar devices, Version 2.4 JIL Minimum Security Features for Java Card Platforms, Version 1.0 EMVCo Security Guidelines for Smart Card Integrated Circuits, Version 2.1 EMVCo CPA Secure Implementation Guidelines EMVCo Security Guidelines for Java Card, MULTOS and GlobalPlatform Implementations including Mobile Payments Incorporating the laboratory specific implementations defined in the following documented in-house methods	BSK
	Random Number Generator (RNG) attacks <ul style="list-style-type: none"> Leakage analysis 	ULID-001195, Issue 1.0	BSK
	Perturbation attacks <ul style="list-style-type: none"> Laser Fault Injection EM Fault Injection 	27-TS-S0864, Issue 1.0	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Smartcards (Contact and Contactless) Application (Brand) Common-Core Payment Application (EMVCo) Platform (cont'd)	Side-Channel Attacks Simple Power Analysis Differential Power Analysis HO-DPA EM attacks Template attack	ULID-001195, Issue 1.0	BSK
	III-Formed Applications Improper applications Malicious applications	00-TS-L0008, Issue 4.0	BSK
	Software Attacks command editing direct protocol attacks replay man-in-the-middle authentication of access control bypass buffer and stack overflow/underflow	00-TS-L0007, Issue 2.0	BSK
	Logical attacks Application segregation Malicious applications	00-TS-L0008, Issue 4.0 00-TS-L0007, Issue 2.0	BSK
	Related Opinions and Interpretations Estimation and Quantification of Attack Potential to Smartcards	Documented in house methods (method ref) using the evaluation methodology defined in <i>Joint Interpretation Library - Application of Attack Potential to Smartcards</i> , Version 3.1, June 2020	BSK



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Table 6: CONSUMER TECHNOLOGY (CTECH) BASINGSTOKE

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Aerospace Components and Equipment Audio Equipment (Exclude Video equipment and TV receiver) Batteries and Cells Circuit Breakers and Switches Coatings: Metallic Composite Materials Compressors Computers and Peripherals Construction Materials 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 Explosion Protected Electrical Equipment Filters and Filter Media (Electrical) Fans Firearms Fire Fighting and Detection Equipment Flowmeters: Excluding Calibration Fuses: Electrical Gas Appliances Generators: Electrical Generators: Power	1 EMC Testing 1.1 Conducted Emissions 0 Hz to 100 MHz Note ³ : Excludes grid connected power converters (GCPC)	CISPR 11:2015 +A1:2016 +A2:2019 ⁽³⁾ CISPR 14-1:2005 CISPR 16-2-1:2003 CISPR 25:2002 ICES-003 Issue 6 EN 50412-2-1:2005 EN 55011:2016 +A1:2017 ⁽³⁾ EN 55014-1:2006 EN 55014-1: 2006 including Amendment A2:2011	BSK



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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 30 Generators: Welding Heating and Cooking Appliances Instruments: Indicating/Recording Insulating Materials: Electrical IT Equipment Lamps: Electrical Lawnmowers Lifting Gear Lifts: Electrical Luminaires Marine Equipment Measuring Equipment Medical/Dental Equipment Micro-Electronic Circuits and Components Mining Equipment Components Mining Plant and Equipment Missile Components Motor Vehicle Accessories and Components Motors: Electrical Office Equipment: Electrical Plugs and Sockets: Electrical Power Supplies: Electrical Printed Circuit Boards Radar Equipment Radio and TV Equipment Radiocommunications Equipment Rescue Appliances/ Equipment Safety Appliances/ Equipment Satellites and SuBSKsemblies Security Devices and Alarms Security Equipment Smoke Detectors	1 EMC Testing (cont'd) 1.1 Conducted Emissions (cont'd) 0 Hz to 100 MHz (cont'd)	EN 55032:2015 Vol 47 (Telecomms) FCC: Code of Federal Regulations: Part 15 Vol 47 (Telecomms) FCC Code of Federal Regulations: Part 18 *includes signal lines where standard ISN's and CDN's can be used. ANSI C63.4:2014	BSK
	1.2 Radiated Electric Field Emissions: 30 MHz to 110 GHz	CISPR 11:2015 +A1:2016 +A2:2019	BSK



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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 31 Smoke and Heat Control Equipment Sonar Equipment Switchboards: Electrical Telecommunications Equipment Transformers: Electrical Video Equipment Watt-hour Meters, integrating	1 EMC Testing (cont'd) 1.2 Radiated Electric Field Emissions: (cont'd) 30 MHz to 110 GHz (cont'd) Transient emissions Broadband emissions Narrowband emissions Note ** ESAs only ***FTT measurements exclude	BS EN 55011:2009 + A1:2010 EN 55016-2-3:2010 + A2:2014*** EN 55016-2-3:2017*** EN 55032:2015 ECE Regulation 10.6** ICES-003 Issue 6 I-ETS 300 131:1994(exc ae port measurements) Vol 47 (Telecomms) FCC Code of Federal Regulations: Part 15 Vol 47 (Telecomms) FCC Code of Federal Regulations: Part 18 ANSI C63.4:2014 FCC Measurement Procedure MP-5 ISO 7637	BSK



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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 30 - 32	1 EMC Testing (cont'd) 1.3 Radiated Magnetic Field Emissions: 20 Hz to 30 MHz Note EN 55014-1:2006 including A2:2011 Testing requiring a Loop Antenna System is excluded from this schedule	CISPR 11:2015 +A1:2016 +A2:2019 BS EN 55011:2009 + A1:2010 EN 55011:2016 +A1:2017 Vol 47 (Telecomms) FCC Code of Federal Regulations: Part 15 Vol 47 (Telecomms) FCC Code of Federal Regulations: Part 18 ANSI C63.4:2014	BSK
	1.4 Power Absorbing Emissions Measurements (Power Clamp) 30 MHz to 300MHz	AS/NZS 1044:1995 EN 55014-1:2006 EN 55014-1:2006 + A1:2009 CISPR 14-1:2005 CISPR 14-1:2005 EN 55014-1: 2006 including Amendment A2:2011	BSK



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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 30 - 32	1 EMC Testing (cont'd)		
	1.5 Discontinuous Emissions (Clicks): 10 kHz to 30 MHz	EN 55014-1:2000 including Amendment A1:2001 and A2:2002 CISPR 14-1:2000 Amendment A1:2001 and A2:2002 EN 55014-1:2006 EN 55014-1:2006 + A1:2009 EN 55014-1: 2006 including Amendment A2:2011 CISPR 14-1:2005	BSK
	1.6 Conducted Current Harmonics (Emissions): Measurements up to 40 th Harmonic Equipment Input Current ≤ 16A Per Phase	EN 61000-3-2:2014 EN 61000-3-2:2020	BSK
	1.7 Conducted AC Mains Flicker (Emissions)	EN 61000-3-3:2013 EN 61000-3-3:2013 + A1:2019	BSK
	1.8 Electrostatic Discharge Immunity (ESD): Up to 30 kV Direct and Indirect Air and Contact Discharge Positive and Negative Polarity	IEC 61000-4-2:2008 EN 61000-4-2:2009	BSK



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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 30 - 32	1 EMC Testing (cont'd) 1.9 Radiated Electromagnetic Field Immunity: 80MHz to 6 GHz Range of Measurements: up to 100 V/m Automated closed loop field monitoring or Precalibration method (uniform field) Note: The ability to conduct radiated immunity testing in site situations will be limited by the need to avoid contravening radio transmission regulations and/or the availability of a suitable screened enclosure. Note: ** ESAs only	IEC 61000-4-3:2006 + A1:2007 EN 61000-4-3:2006 + A2:2010 ISO 11452-2:1995 ISO 11452-3:1995 2004/104/EC Annex IX ISO 11452-1:2005 ISO 11452-2:2004 IEEE C37.90.2:1995	BSK
	1.10 Fast Transient Burst Immunity 0.25 kV to 4.0 kV Positive and Negative Polarity 5 ns rise time, 10 ns duration 15 ms burst duration	EN 61000-4-4:2012	BSK



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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 30 - 32	1 EMC Testing (cont'd) 1.11 Conducted Radio Frequency Immunity: 150 kHz to 230MHz RF voltage up to 15 V rms Injection via coupling networks, direct current injection or bulk current injection Note ** ESAs only *** for Bulk Current Injection test method maximum frequency is limited to 100 MHz	EN 61000-4-6:2014*** ISO 11452-4:2001 2004/104/EC Annex IX 11452-4:2005 ECE Regulation 10.6** EN 61000-4-6:2009 IEC 61000-4-6:2008	BSK
	1.12 Surge Immunity Waveforms: 10/700 ms 100/700 ms 0.5/700 ms 0.2 kV to 6 kV 1.2/50 (8/20) ms Common mode Differential mode	EN 61000-4-5:2006 EN 61000-4-5:2014 IEC 61000-4-5:2005 EN 61000-4-5:2014 + A1:2017	BSK
	1.13 Voltage Variations and Deviations: DC Power Ports	EN 61000-4-11:2004 IEC 61000-4-11:2004 EN 61000-4-11:2020 IEC 61000-4-11:2020	BSK



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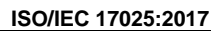
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As listed on Pages 30 - 32	1 EMC Testing (cont'd)		
	1.14 AC Power Ports Voltage Dips, Interruptions and Fluctuations (Immunity): Voltage Dips: up to 100% Voltage Reductions: up to 100% Voltage Fluctuations: up to 100%	EN 61000-4-11:2004 IEC 61000-4-11:2004	BSK
	1.15 Power-Frequency Magnetic Fields (Immunity) Frequency: 15 Hz to 1.5 kHz Field strength: up to 300 A/m	EN 61000-4-8:2010 IEC 61000-4-8:2009 * - using the Helmholtz Coil A095	BSK
	1.16 Immunity to Close Proximity Magnetic Fields: 30 kHz, 134.2 kHz and 13.56 MHz	EN 61000-4-39:2017* * - Methods for testing at spot frequencies required by IEC 60601-1-2:2014 + A1:2020 only	BSK
	1.17 Electrical Transients in Motor Vehicles: 12 / 24 V vehicle systems Note ** ESAs only	ISO 7637-2:2004 and 2011 Pulses 1a, 1b (Max test voltage - 600V) Pulse 2 (RI limited to 10 Ω or 50 Ω) Pulses 3a, 3b, 4, 5 ISO 7637-3:1995 Pulse types 1, 2, 3a, 3b, 4, 5, 6 & 7 ECE Regulation 10.6**	BSK





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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 30 - 32	<p>1 EMC Testing (cont'd)</p> <p>1.18 EMC Tests (cont'd) Note: International Standards, EN, ENV and IEC, listed in this schedule, that have been adopted nationally as</p> <p>BS EN DD ENV and BS IEC and are technically identical, can be considered</p> <p>as being included in this schedule.</p>	<p>3GPP TS 34.124 ETSI TS 134 124 3GPP TS 36.124 3GPP TS 36.124 3GPP TS 38.124 ETSI EN 301 908-1 V11.1.1 section 8.2</p> <p>ETSI EN 301 908-1 V13.1.1 (2019-11)</p> <p>ETSI TS 136 124 ETSI TS 136 124 ETSI TS 138 124 EN 301 489-1 V2.1.1 (2017-02) Draft EN 301 489-1:V2.2.0 (2017-03)</p> <p>EN 301 489-1 V2.2.3 (2019-11) EN 301 489-2 V2.1.1 (2019-04)</p> <p>EN 301 489-3V2.1.1(2017-03) EN 301 489-4V3.2.1 (2019-03) Draft EN 301 489-4 V3.3.0 (2020) EN 301 489-4 V3.3.1 (2021-02) EN301 489-5:V2.2.0 (2017-03) EN 301 489-6V1.3.1(2008-08)</p> <p>EN 301 489-9 V2.1.1 (2017-03)</p> <p>EN 301 489-13 V1.2.1 (2002-08) EN 301 489-15 V1.2.1 (2002-08) EN 301 489-17 V3.2.4 (2020-09) Draft EN 301 489-17 V3.2.0 (2017-03) Draft EN 301 489-17 V3.2.2 (2019-12)</p>	BSK



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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 30 - 32	1 EMC Testing (cont'd) 1.18 EMC Tests (cont'd) Note: International Standards, EN, ENV and IEC, listed in this schedule, that have been adopted nationally as BS IEC and are technically identical, can be considered as being included in this schedule.	EN 301 489-19:V2.1.1 (2019-04) Draft EN 301 489-19 V2.2.0 (2020-09) EN 301 489-33:V2.2.0 (2017-03) Draft EN 301 489-50:V2.2.1 (2019-04) EN 301 489-51:V2.1.1 (2019-04) Draft EN 301 489-52 V1.1.2 (2020-12) EN 50121-1:2006 EN 50121-3-2:2006 EN 50121-4:2006 EN 50121-5:2006 EN 50293:2012 EN 50561-1:2013	BSK BSK

Note ¹ EN 55016-2-1:2014 exclude tests that specifically require the use of a CDNE or FTT measurement

Note ² Excludes ME Equipment and ME Systems for use in aircraft



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Marine Radio Equipment Land Mobile Radio Equipment Fixed Link Radio Equipment	2 Radio Transmitter and Receiver Testing 2.1 Accuracy and Stability of Timing Parameters 2.2 Adjacent Channel Power to 90 dBc 2.3 Adjacent Channel Selectivity 100 kHz to 90 GHz 2.4 Bit Error Rate Measurements 2.5 Blocking and Desensitisation 9 kHz to 110 GHz 2.6 Co-Channel Rejection 100 kHz to 90 GHz 2.7 Effective Receiver Sensitivity 100 kHz to 90 GHz 2.8 Emissions - Conducted 100 Hz to 170 GHz 2.9 Emissions - Effective Radiated Power 9 kHz to 110 GHz 2.10 Frequency Error 9 kHz to 110 GHz	EN 300 440-1:V2.1.1:2017 EN 300 220-1:V3.1.1:2017 EN 300 220-2:V3.1.1:2017 EN 300 220-3-1:V2.1.1:2016 EN 300 220-3-2:V1.1.1:2017 EN 300-220-4:V1.1.1:2017 EN 300 328 V2.1.1:2016 EN 300 328 V2.2.2.: 2019 EN 300 330-1:V2.1.1:2017 EN 301 126-1 V1.1.2 (1999-09) EN 301 893:V2.1.1 (2017-05) ETSI EN 301 908-1:V11.1.1(2016-07) EN 301 908-13 V13.1.1; Clause 4.2.4 3GPP TS 51.010-1 (12.2.x) EN 301 511 V12.5.1 (2017-03) ⁹	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Marine Radio Equipment Land Mobile Radio Equipment Fixed Link Radio Equipment (cont'd)	2 Radio Transmitter and Receiver Testing (cont'd)		BSK
	2.11 Frequency Range 9 kHz to 170 GHz		
	2.12 Frequency Stability	EN 302 217-2 V3.2.2(2020-02) Note ¹⁰ EN 302 729 V2.1.1 EN 302 372 V2.1.1 EN 303 372-2 V1.1.1 (2016-04) EN 303 413 V1.2.1 EN 305 550-1 V1.2.1:2014 EN 305 550-2 V1.2.1:2014	
	9 kHz to 110 GHz		
	2.13 Intermodulation Attenuation 100 kHz to 110 GHz	GSM 11.21:1995 AS/NZS 4268:2012 + A1:2013 AS/NZS 4281:1995 AS 4295:1995	
	2.14 Intermodulation Response (2 and 3 Generator Method) 9 kHz to 26.5 GHz	EN 302 326-1:V1.2.2:2007 Note ¹⁰ EN 302 326-2:V1.2.2:2007 Note ¹⁰ Annex 11 to the Ministerial Decree of 19 th October 1979 relating to private	BSK
	2.15 Maximum Frequency Deviation 9 kHz to 100 kHz	radio-communications: Dec 1990 TS 101 087:V8.9.0:2003 TS 151 021:V5.3.0:2003 FCC 47CFR2 FCC 47CFR11***	
	2.16 Maximum Useable Sensitivity 9 kHz to 40 GHz	FCC 47CFR15 FCC 47CFR18 FCC 47CFR20 FCC 47CFR22 FCC 47CFR24 FCC 47CFR25 FCC 47CFR27 FCC 47CFR73 ⁶ FCC 47CFR74 FCC 47CFR90 FCC 47CFR95**** FCC 47CFR97***** FCC 47CFR101	



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Marine Radio Equipment Land Mobile Radio Equipment Fixed Link Radio Equipment (cont'd)	2 Radio Transmitter and Receiver Testing (cont'd) 2.16 Maximum Useable Sensitivity (cont'd) 9 kHz to 40 GHz 2.17 Out of Band Power 9 kHz to 110 GHz 2.18 Permitted Range of Operation Frequencies 9 kHz to 110 GHz	RSS-GEN ISSUE 5, APRIL 2018 RSS-111 Issue5, September 2014 RSS-118 Issue 2, August 1990 RSS-119 Issue 11, June 2011 RSS-125 Issue 2, Rev 1, March 2000 RSS-130 Issue 2, February 2019 RSS-131 Issue 2, July 2003 RSS-132 Issue 3, January 2013 RSS-133 Issue 6, January 2013 RSS-137 Issue 2, February 2009 RSS -139 Issue 3, July 2015 RSS-142 Issue 5, April 2013 RSS-170 Issue 2, March 2011 RSS-191 Issue 3, April 2008 RSS-199 Issue 3, December 2016 RSS-195 Issue 2, April 2014 RSS-210 Issue 10, December 2019 RSS-220 Issue 1, March 2009 Amendment July 2018 RSS-247 Issue 3, August 2023 with DFS Testing RSS-248 Issue 1, November 2021 ANSI C63.4:2014 ANSI C63.10:2013 ANSI C63.17:2006 ANSI C63.26:2015 ⁷	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Marine Radio Equipment Land Mobile Radio Equipment Fixed Link Radio Equipment (cont'd)	2 Radio Transmitter and Receiver Testing (cont'd) 2.19 Reference (Receiver) Sensitivity 9 kHz to 40 GHz 2.20 Relative Humidity 20% to 75% 2.21 Selectivity 90 dB 2.22 Spurious Emissions 20 Hz to 170 GHz 2.23 Spurious Response Rejection 9 kHz to 170GHz 2.24 Temperature - 45 °C to 75 °C 2.25 Reserved 2.26 Transmitter Carrier Power 10 µW to 2 kW 30 MHz to 90 GHz 2.27 Reserved 2.28 Control & Monitoring Functions 2.29 Dynamic Frequency Selection (DFS). 2.30 Contention-based Protocol 2.31 Occupied Bandwidth 5925-7125 MHz Band	ANSI/TIA-603-E 2016 ⁸ SRSP-305.9 Issue 5 December 2006 SRSP-317.8 Issue 2 December 2006	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Wireless power transmission systems	Permitted range of operating frequencies Operating frequency ranges H-field requirements Transmitter spurious emissions Transmitter out of band (OOB) emissions WPT system unwanted conducted emissions Receiver blocking Range of Measurement 19kHz - 400kHz	ETSI EN 303 417 V1.1.1 (2017-06) Wireless power transmission systems, using technologies other than radio frequency beam in the 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz ranges Excluding the 6 765 - 6 795 kHz range <i>Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU</i>	BSK, D
Short Range Devices (SRD) using Ultra Wide Band technology (UWB) Exclusions: The scope of this application excludes operating frequencies outside the 6 to 8.5 GHz band and spectrum access tests (DAA & LDC).	Operating Bandwidth (Permitted Range of Operating Frequencies, 9 kHz to 110 GHz) Mean Power Spectral Density (Transmitter Carrier Power, 10 µW to 2 kW, 30 MHz to 90 GHz) Peak Power (Transmitter Carrier Power, 10 µW to 2 kW, 30 MHz to 90 GHz) Other Emissions (Spurious Emissions, 20 Hz to 170 GHz) Receiver Spurious Emissions (Spurious Emissions, 20 Hz to 170 GHz) Receiver Interference Handling (Blocking and Desensitisation, 9 kHz to 110 GHz)	ETSI EN 302 065-1 V2.1.1 (referencing parts of ETSI EN Radio V1.1.1 and ETSI TS 103 361 V1.1.1) (Excluding operating frequencies outside the 6 to 8.5 GHz band and excluding Conformance test suites for spectrum access).	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Multiple-Gigabit/s radio equipment operating in the 60 GHz band.	Spectral Power Density, 57 to 66 GHz	ETSI EN 302 567 V2.1.1, Clause 5.3.3	BSK
	RF Output Power, 57 to 66 GHz	ETSI EN 302 567 V2.1.1, Clause 5.3.4	
	Transmitter Unwanted Emissions, 30 MHz to 132 GHz	ETSI EN 302 567 V2.1.1, Clause 5.3.5	
	Receiver Unwanted Emissions, 30 MHz to 132 GHz	ETSI EN 302 567 V2.1.1, Clause 5.3.6	
	Adaptivity, 57 to 66 GHz	ETSI EN 302 567 V2.1.1, Clause 5.3.8	
	Receiver Adjacent Channel Rejection, 57 to 66 GHz	ETSI EN 302 567 V2.1.1, Clause 5.3.7	
	Transmitter Unwanted Emissions in the Out-of-Band Domain, 57 to 66 GHz	ETSI EN 302 567 V2.1.1, Clause 5.3.9	
	Occupied Channel Bandwidth, 57 to 66 GHz	ETSI EN 302 567 V2.1.1, Clause 5.3.10	

Note¹⁰: Microwave antenna performance measurements and Analogue link equipment performance measurements are excluded from the scope of this Schedule.

Note ** EN 301 893 V1.8.1 V2.2.1 (2017-05)

EXCLUDING: Adaptivity tests on 160MHz channels are excluded from the scope of this accreditation.

Note ⁷ ANSI C63.26:2015

EXCLUDING: Section 6.2 – Medical implant transmitter measurements

Note ⁸ - ANSI/TIA-603-E 2016

EXCLUDING CLAUSES: 2.1, 2.2.5, 2.2.6, 2.2.7, 2.2.8, 2.2.9, 2.2.10, 2.2.15, 2.2.18, 2.3 and 2.4

Note ⁹ EN 301 511 V12.5.1 limited to only cover the Radiated Spurious Emissions for GSM mobile stations, as requested by clauses 4.2.16 and 4.2.17



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p>Note*** FCC 47CFR11 The following paragraphs are excluded from the scope of this Schedule: - Part 11.32(a)(8) Spurious Response Part 11.32(a)(9)(ii) Harmonic Distortion Part 11.32(a)(9)(iii) Minimum Level of Output Part 11.32(a)(9)(iv) Time Period for Transmission of Tones Part 1.32(d) Testing Encoder Units</p> <p>Note**** FCC 47CFR95 The following requirements are excluded from the scope of this schedule: - Subpart I—(MEDRADIO) Subpart K—(PLB) Subpart L—(DSRCS-OBUS) Peak Envelope Power Measurements under 95.639 - Maximum Transmitter Power 95.637- Modulation Standards</p> <p>Note ***** FCC 47CFR97 The following requirements are excluded from the scope of this schedule:- FCC 47CFR Part 97.313 Transmitter Power Standards and measurements above 110 GHz are excluded from this application.</p>			
<p>Note⁶ FCC 47CFR73 The following requirements are excluded from the scope of this schedule:- 73.317(e) – Preemphasis Insufficient equivalence to standards/tests on current schedule for inclusion under flexible scope. 73.319 – FM multiplex subcarrier technical standards Insufficient equivalence to standards/tests on current schedule for inclusion under flexible scope. 73.322 – FM stereophonic sound transmission standards Insufficient equivalence to standards/tests on current schedule for inclusion under flexible scope. Subpart E – TELEVISION BROADCAST STATIONS Insufficient equivalence to standards/tests on current schedule for inclusion under flexible scope. Subpart F – INTERNATIONAL BROADCAST STATIONS Insufficient equivalence to standards/tests on current schedule for inclusion under flexible scope.</p>			



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	3 SAR & RF Exposure 3.1 Specific Absorption Rate 13 MHz to 7.7 GHz Using the DASY 5 and DASY 6 systems	IEEE C95.3:2021 NZS 2772.1: 1999 AS/NZS 2772.2: 2016Australian Communications and Media Authority Radiocommunications (Electromagnetic Radiation - Human Exposure) Amendment Standard 2007 (No. 1) Australian Communications and Media Authority Radiocommunications (Electromagnetic Radiation - Human Exposure) Standard 2014 Radiocommunications Act 1992 EN 50360:2017 EN50383:2010* EN 50385:2017 EN 50401:2017 IEC 62209-2: 2010+AMD1:2019 CSV IEEE 1528- 2013 IEC/IEEE 62209-1528:2020 IEC62209-1:2016 EN 50566: 2017 EN 50665: 2017 IEC/EN 62479:2010 IEC/EN 62311: 2019/2020 RSS 102 Issue 5 March 2015 OET Bulletin 65 Supplement C Edition 01-01 (June 2001)	BSK

⁽¹⁾ This scope aims to address only the Reference method for near- field testing of each antenna region and does not cover the Alternative methods of near-field testing of base stations using EM field measurements



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	3 SAR & RF Exposure (cont'd) 3.2 RF Exposure 3 kHz to 10 MHz Magnetic and Electric Field (Near Field) Nerve Stimulation (Stimulation and Thermal Effects)	IEC 62369-1:2008 IEC EN 62311:2019/2020 IEC TR 62905:2018 SPR-002 Issue 1 KDB 680106 D01	BSK
<i>Bluetooth Devices</i>	4 Bluetooth Tests 4.1 RF Transmitter, Transceiver and Receiver Tests 4.2 Protocol and Profile Tests	Bluetooth Specification (v4.2 to 5.2) - RF - RF PHY Bluetooth Specification (v4.2 to 5.2) Vol. 3 , Part E and Vol. 6, Part B - GAP - SM - L2CAP - GATT - ATT - SDP - HCL - LL Traditional Profiles: 1 GATT-Based Profiles & Services: 1	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Security of IT Products and Systems	5 Electrical Safety 5.1 Information Technology Equipment	EN60950-1 2006/A2:2013 Information Technology Equipment – Safety- Part 1: General Requirements Clause 1.6, 1.7 2.1, 2.2 2.3 (<i>Excluding 2.3.5</i>) 2.4, 2.5 2.6, 2.7 2.8 (<i>excluding 2.8.5, 2.8.7.3</i>) 2.9 2.10 (<i>excluding 2.10.3.9, 2.10.4.2, 2.10.5.5, 2.10.7, 2.10.8.4, 2.10.9, 2.10.10, 2.10.11.</i>) 3.1 3.2 (<i>Excluding 3.2.5.1(flexing test)</i>) 3.3 3.4 3.5 4.1 4.2 (<i>Excluding 4.2.8</i>) 4.3 (<i>Excluding 4.3.10, 4.3.12, 4.3.13</i>) 4.4 4.5 (<i>Excluding three phase systems</i>)4.6 (<i>Excluding 4.6.2(Annex A3 test)</i>) 4.7 (<i>Excluding 4.7.3</i>) 5.1 (<i>Excluding three phase systems</i>) 5.2 5.3 (<i>Excluding 5.3.6</i>) 6.1, 6.2, 6.3 (<i>excluding testing</i>) 7.1, 7.2 7.3, 7.4 (<i>excluding testing</i>) <i>Excluding Annex's A, H, M, N, S, U, AA, CC, EE</i>	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Audio/video, information and communication technology equipment	Electrical safety	<p>IEC 62368-1 Edition 2.0 2014-02</p> <p>BS EN 62368-1:2014+A11:2017</p> <p>Excluded :</p> <p>Clause 4.7 But Including – Momentum Test 5.4.1.4, 9.2.5, Annex E For 3-phase Equipment 5.4.1.5.3 5.4.1.10.2 5.4.2, 5.4.3, 5.4.4, tracking index and mandrel Test 5.4.7 5.5.2.2 Tests to g.16 for ICX components 5.6.4.1 Tests too Annex R Clause 10 Annex B.2.5 Poly phase Annex C Annex G.5.4.8 Annex G.7 Flexing Test Annex G.8.3.2 Annex G.9 Annex G.10 Annex G.13.6.2 Annex G.13.6.2 Annex G.14 Annex G.15 Annex G.16 Annex H Annex J Annex M.7 Annex M.8.2 Annex. P.4 Annex R Annex S Annex U Annex DVA Annex DVB Annex DVC Annex DVI Annex DVJ</p>	BSK



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Audio/video, information and communication technology equipment	Electrical Safety	<p>IEC 62368-1 Edition 3.0 2018-10</p> <p>BS EN IEC 62368-1:2020+A11:2020</p> <p>Excluded :</p> <p>Clause 4.7 Including – Momentum Test</p> <p>5.4.1.5.3</p> <p>5.4.1.10.2</p> <p>5.4.2, 5.4.3, 5.4.4, - tracking index and mandrel Test</p> <p>5.4.7</p> <p>5.4.12</p> <p>5.5.2.2 Tests to g.16 for ICX components</p> <p>5.6.4.1 Tests to Annex R</p> <p>5.7.9DV.1</p> <p>6.3.1</p> <p>6.4.8.2</p> <p>6.4.8.3.3</p> <p>6.4.8.3.4</p> <p>8.5.4.3.4</p> <p>9.6</p> <p>Clause 10</p> <p>Annex B.2.5 Poly phase</p> <p>Annex G.3</p> <p>Annex G.5.2</p> <p>Annex G 5.3.4.5</p> <p>Annex G 5.3.4.6</p> <p>Annex G.5.4.8</p> <p>Annex G.7 Flexing Test</p> <p>Annex G.8.1</p> <p>Annex G.8.3.2</p> <p>Annex G.9</p> <p>Annex G.10</p> <p>Annex G.13.6.2</p> <p>Annex G.13.6.2</p> <p>Annex G.14</p> <p>Annex G.15</p> <p>Annex G.16</p> <p>Annex H</p> <p>Annex J</p> <p>Annex M.7</p> <p>Annex M.8.2</p> <p>Annex. P.4</p> <p>Annex R</p>	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Audio/video, information and communication technology equipment	Electrical Safety	Annex S Annex U Annex Y Annex DVA Annex DVB Annex DVC Annex DVI Annex DVJ	BSK
Audio/video, information and communication technology equipment	Electrical Safety	BS EN IEC 62368-3:2020	BSK



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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	5.2 Medical electrical equipment	<p>IEC 60601-1: 1988/AMD2:1995/COR1:1995 (Revised) Excluded: cl. 29 – X-Radiation Test cl. 44.6 – Harmful ingress of liquids test cl. 59.2 c) - Oxygen Aging for Rubber Insulation Parts</p> <p>IEC60601-1:2005 (Revised) Excluded: cl. 8.8.4.2 Oxygen Aging for Rubber Insulation Parts cl. 9.5.2 Cathode Ray Tubes cl. 10.1.1 X-radiation cl. 11.2.2 Oxygen enriched atmospheres cl. 11.3 Constructional requirements for fire ENCLOSURES of ME EQUIPMENT (excluded are only tests according to IEC 60695-11-10) cl. 11.6.5 Harmful Ingress (excluded only Water and Dust tests – IPX1 – IPX 9, IP5X, IP6X)</p> <p>EN 60601-1:2006 (Revised) Excluded: cl. 8.8.4.2 Oxygen Aging for Rubber Insulation Parts cl. 9.5.2 Cathode Ray Tubes cl. 10.1.1 X-radiation cl. 11.2.2 Oxygen enriched atmospheres cl. 11.3 Constructional requirements for fire ENCLOSURES of ME EQUIPMENT (excluded are only tests according to IEC 60695-11-10) cl. 11.6.5 Harmful Ingress (excluded only Water and Dust tests – IPX1 – IPX 9, IP5X, IP6X)</p>	BSK



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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 (cont'd)	5.2 Medical electrical equipment (cont'd)	<p>IEC 60601-1: 2005/AMD1:2012/COR1:2014 (Revised) Excluded: cl. 8.8.4.2 Oxygen Aging for Rubber Insulation Parts cl. 9.5.2 Cathode Ray Tubes cl. 10.1.1 X-radiation cl. 11.2.2 Oxygen enriched atmospheres cl. 11.3 Constructional requirements for fire ENCLOSURES of ME EQUIPMENT (excluded are only tests according to IEC 60695-11-10) cl. 11.6.5 Harmful Ingress (excluded only Water and Dust tests – IPX1 – IPX 9, IP5X, IP6X)</p> <p>EN 60601-1:2006/A1:2013/A12:2014 (Active) Excluded: cl. 8.8.4.2 Oxygen Aging for Rubber Insulation Parts cl. 9.5.2 Cathode Ray Tubes cl. 10.1.1 X-radiation cl. 11.2.2 Oxygen enriched atmospheres cl. 11.3 Constructional requirements for fire ENCLOSURES of ME EQUIPMENT (excluded are only tests according to IEC 60695-11-10) cl. 11.6.5 Harmful Ingress (excluded only Water and Dust tests – IPX1 – IPX 9, IP5X, IP6X)</p>	BSK



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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 (cont'd)	5.2 Medical electrical equipment (cont'd)	<p>IEC 60601-1:2005/AMD2:2020 (Active) Excluded: cl. 8.8.4.2 Oxygen Aging for Rubber Insulation Parts cl. 9.5.2 Cathode Ray Tubes cl. 10.1.1 X-radiation cl. 11.2.2 Oxygen enriched atmospheres cl. 11.3 Constructional requirements for fire ENCLOSURES of ME EQUIPMENT (excluded are only tests according to IEC 60695-11-10) cl. 11.6.5 Harmful Ingress (excluded only Water and Dust tests – IPX1 – IPX 9, IP5X, IP6X)</p> <p>IEC60601-1-6:2010 edition 2.0 (Revised) IEC60601-1-6:2010 edition 3.0 (Revised) IEC60601-1-6: 2010/AMD1:2013 edition 3.1 (Revised) EN 60601-1-6:2010+A1:2015 (active) IEC 60601-1-6:2010/AMD2:2020 Edition 3.2 (Active)</p> <p>IEC60601-1-8:2006/AMD1:2012 edition 2.1 (Revised) EN 60601-1-8:2007+A1:2013 (Active)</p> <p>IEC 60601-1-8:2006/AMD1:2012/AMD2:2020 edition 2.2 (Active)</p>	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Measurement, control and laboratory use equipment	5.3 Measurement, control and laboratory use equipment	<p>IEC 61010-1:2001/COR2:2003 Edition 2 (Revised) Excluded : cl. 11.6 Specially protected equipment: (excluded only Water and Dust tests – IPX1 – IPX 9, IP5X, IP6X) cl. 12.2.1 Ionizing Radiation Measurement Test cl. 12.4 Microwave Radiation Measurement Test cl. 12.5.2 Ultrasonic Pressure Measurement Test</p> <p>IEC 61010-1:2010 Edition 3 (Revised) Excluded : cl. 11.6 Specially protected equipment: (excluded only Water and Dust tests – IPX1 – IPX 9, IP5X, IP6X) cl. 12.2.1 Ionizing Radiation Measurement Test cl. 12.4 Microwave Radiation Measurement Test cl. 12.5.2 Ultrasonic Pressure Measurement Test</p> <p>IEC 61010-1: 2010/AMD1:2016/COR1:2019 Edition 3.1 (Active) EN 61010-1:2010+A1:2019 (Active) Excluded : cl. 11.6 Specially protected equipment: (excluded only Water and Dust tests – IPX1 – IPX 9, IP5X, IP6X) cl. 12.2.1 Ionizing Radiation Measurement Test cl. 12.4 Microwave Radiation Measurement Test cl. 12.5.2 Ultrasonic Pressure Measurement Test</p>	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Measurement, control and laboratory use equipment (cont'd)	5.3 Measurement, control and laboratory use equipment (cont'd)	IEC61010—2-030:2010 Edition 1.0 (Revised) IEC61010—2-030:2017 Edition 2.0 (Active) EN 61010-2-030:2010 (Active) IEC61010-2-010:2003 Edition 2.0 (Revised) IEC61010-2-010:2014 Edition 3.0 (Revised) IEC61010-2-010:2019 Edition 4.0 (Active) EN 61010-2-010:2020 (Active) IEC61010-2-011:2016 Edition 1.0 (Active) Excluded: 11.7.104.3 Leakage test for FLAMMABLE REFRIGERANT 11.7.104.4 Scratch test for protected cooling systems 11.7.104.5 Unprotected cooling systems 11.7.104.6 Stagnation of leaked FLAMMABLE REFRIGERANT EN 61010-2-011:2017 (Active) Excluded: 11.7.104.3 Leakage test for FLAMMABLE REFRIGERANT 11.7.104.4 Scratch test for protected cooling systems 11.7.104.5 Unprotected cooling systems 11.7.104.6 Stagnation of leaked FLAMMABLE REFRIGERANT IEC61010-2-081:2015 edition 2.0 (Revised) IEC61010-2-081:2019 Edition 3.0 (Active) EN 61010-2-081:2020 (Active) IEC61010-2-091:2019 edition 2.0 (Active) EN 61010-2-091:2012 (Active)	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Measurement, control and laboratory use equipment (cont'd)	5.3 Measurement, control and laboratory use equipment (cont'd)	IEC61010-2-101:2015 Edition 2.0 (Revised) IEC61010-2-101:2018 Edition 3.0 (Revised) EN 61010-2-101:2017 (Active) IEC61010-2-201:2013 Edition 1.0 (Revised) IEC61010-2-201:2017 Edition 2.0 (Active) EN 61010-2-201:2018 (Active)	BSK
LUMINAIRES	5.4 Electrical Product Tests		
Luminaires - general requirement	Electrical Safety Electrical, mechanical and thermal.	IEC 60598-1:2020, Ed. 9.0 EN IEC 60598-1:2021+A11:2022 (IP 1X - 4X only)	BSK
Luminaires - fixed general purpose	Electrical Safety	IEC 60598-2-1:2020, Ed. 2.0 EN IEC 60598-2-1:2021	BSK
Luminaires - recessed	Electrical Safety	IEC 60598-2-2:2011, Ed. 3.0 EN 60598-2-2:2012	BSK
Luminaires - road and street lighting	Electrical Safety	IEC 60598-2-3:2002+AMD1:2011, Ed. 3.1 EN 60598-2-3:2003+A1:2011	BSK
Luminaires - portable general purpose	Electrical Safety	IEC 60598-2-4:2017, Ed. 3.0 EN 60598-2-4:2018	BSK
Luminaires - flood lights	Electrical Safety	IEC 60598-2-5:2015, Ed. 3.0 EN 60598-2-5:2015	BSK
Luminaires - emergency luminaires	Electrical Safety	IEC 60598-2-22:2021, Ed. 5.0 EN IEC 60598-2-22:2022 (Excluding Cl. 22.17)	BSK
Lamp controlgear	Electrical Safety	IEC 61347-1:2015+AMD1:2017, Ed. 3.1 EN 61347-1:2015+A1:2021	BSK
Control gears for emergency lighting	Electrical Safety	IEC 61347-2-7:2011 + AMD1:2017 + AMD2:2021, Ed. 3.2 EN 61347-2-7:2012+A2:2022	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Miscellaneous electronics for lighting	Electrical Safety	IEC 61347-2-11:2001+AMD1:2017, Ed. 1.1 EN 61347-2-11:2001+A1:2019	BSK
Control gears for LED modules	Electrical Safety	IEC 61347-2-13:2014+AMD1:2016, Ed. 2.1 EN 61347-2-13:2014+A1:2017	BSK
LED modules	Electrical Safety	IEC 62031:2018, Ed. 2.0 EN IEC 62031:2020	BSK
Controlgear performance	Electrical Safety	IEC 62384:2020, Ed. 2.0 EN IEC 62384:2020	BSK
Automatic test systems for battery powered emergency escape lighting		IEC 62034:2012, Ed.2.0 EN 62034:2012	BSK
Central safety power supply systems	Electrical Safety	EN 50171:2021	BSK



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Table 7a : FCC SCOPE OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
UNINTENTIONAL RADIATORS FCC Part 15, Subpart B	Radiated Emissions 9 kHz to 40 GHz Conducted Emissions 9 kHz to 30 MHz	ANSI C63.4-2014	BSK, D
INDUSTRIAL, SCIENTIFIC AND MEDICAL EQUIPMENT Consumer ISM Equipment FCC Part 18	Radiated Emissions 9 kHz to 40 GHz Conducted Emissions 9 kHz to 30 MHz	FCC MP-5 (February 1986)	BSK, D
INTENTIONAL RADIATORS FCC Part 15, Subpart C	Radiated Tests 9 kHz to 200 GHz Conducted Tests 9 kHz to 200 GHz Radio tests as per standard. Includes but not limited to: Peak transmit power Emission bandwidth / Occupied BW Modulation Power spectral density Band edge tests Permitted frequency range In-band unwanted emissions Out-of-band emissions Spurious emissions Reaction time Frequency and time stability	ANSI C63.10-2013	BSK
UNLICENSED PERSONAL COMMUNICATIONS SYSTEMS DEVICES FCC Part 15, Subpart D	Radiated Tests 9 kHz to 40 GHz Conducted Tests 9 kHz to 40 GHz Radio tests as per standard	ANSI C63.17-2013	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE DEVICES WITHOUT DFS (INTENTIONAL RADIATORS) FCC Part 15, Subpart E	Radiated Tests 9 kHz to 40 GHz Conducted Tests 9 kHz to 40 GHz Radio tests as per standard	ANSI C63.10-2013 KDB Publication 789033 KDB Publication 987594 D02	BSK
UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII) DEVICES WITH DYNAMIC FREQUENCY SELECTION (DFS) FCC Part 15 Subpart E	Radiated Tests 9 kHz to 40 GHz Conducted Tests 9 kHz to 40 GHz Radio tests as per standard DFS tests per new rules	ANSI C63.10-2013 FCC KDB Publication 905462 D02 UNII DFS Compliance Procedures New Rules v01 (April 8, 2016)	BSK
ULTRA-WIDEBAND OPERATION INTENTIONAL RADIATORS FCC Part 15, Subpart F	Radiated Tests 9 kHz to 40 GHz Conducted Tests 9 kHz to 40 GHz Radio tests as per standard	ANSI C63.10-2013	BSK
ACCESS BROADBAND OVER POWER LINE (ACCESS BPL) FCC Part 15, Subpart G	Radiated Tests 9 kHz to 40 GHz Conducted Tests 9 kHz to 40 GHz Radio tests as per standard	ANSI C63.10-2013	BSK
WHITE SPACE DEVICE INTENTIONAL RADIATORS FCC Part 15, Subpart H	Radiated Tests 9 kHz to 200 GHz Conducted Tests 9 kHz to 200 GHz Radio tests as per standard	ANSI C63.10-2013	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
COMMERCIAL MOBILE SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT) FCC Part 22 (cellular) FCC Part 24 FCC Part 25 (non-microwave) FCC Part 27	Radiated Tests 9 kHz to 40 GHz Conducted Tests 9 kHz to 40 GHz Radio tests as per standard	ANSI/TIA-603-E (Excluding Clauses: 2.1, 2.2.5, 2.2.6, 2.2.7, 2.2.8, 2.2.9, 2.2.10, 2.2.15, 2.2.18, 2.3 & 2.4) KDB Publication 971168	BSK
GENERAL MOBILE RADIO SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT) FCC Part 22 (cellular) FCC Part 90 (non-microwave) FCC Part 95 FCC Part 97 FCC Part 101 (non-microwave)	Radiated Tests 9 kHz to 40 GHz Conducted Tests 9 kHz to 40 GHz Radio tests as per standard	ANSI/TIA-603-E (Excluding Clauses: 2.1, 2.2.5, 2.2.6, 2.2.7, 2.2.8, 2.2.9, 2.2.10, 2.2.15, 2.2.18, 2.3 & 2.4)	BSK
CITIZENS BROADBAND RADIO SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT) FCC Part 96	Radiated Tests 9 kHz to 40 GHz Conducted Tests 9 kHz to 40 GHz Radio tests as per standard	ANSI/TIA-603-E (Excluding Clauses: 2.1, 2.2.5, 2.2.6, 2.2.7, 2.2.8, 2.2.9, 2.2.10, 2.2.15, 2.2.18, 2.3 & 2.4) KDB Publication 971168	BSK
MARITIME AND AVIATION RADIO SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT) FCC Part 80 FCC Part 87	Radiated Tests 9 kHz to 200 GHz Conducted Tests 9 kHz to 200 GHz Radio tests as per standard	ANSI/TIA-603-E (Excluding Clauses: 2.1, 2.2.5, 2.2.6, 2.2.7, 2.2.8, 2.2.9, 2.2.10, 2.2.15, 2.2.18, 2.3 & 2.4)	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
MICROWAVE AND MILLIMETRE BANDS RADIO SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT) FCC Part 25 FCC Part 74 FCC Part 90 (90Y, 90Z, DSRC) FCC Part 101	Radiated Tests 9 kHz to 200 GHz Conducted Tests 9 kHz to 200 GHz Radio tests as per standard	ANSI/TIA-603-E (Excluding Clauses: 2.1, 2.2.5, 2.2.6, 2.2.7, 2.2.8, 2.2.9, 2.2.10, 2.2.15, 2.2.18, 2.3 & 2.4)	BSK
BROADCAST RADIO SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT) FCC Part 73 FCC Part 74 (non-microwave)	Radiated Tests 9 kHz to 40 GHz Conducted Tests 9 kHz to 40 GHz Radio tests as per standard	ANSI/TIA-603-E (Excluding Clauses: 2.1, 2.2.5, 2.2.6, 2.2.7, 2.2.8, 2.2.9, 2.2.10, 2.2.15, 2.2.18, 2.3 & 2.4)	BSK
RF EXPOSURE Devices subject to SAR Requirements	Specific Absorption Rate 6MHz to 6.5GHz Using the DASY 5 & DASY 6 systems	IEEE Std 1528™ -2013 IEC/IEEE 62209-1528:2020 KDB Publication 865664 KDB Publication 447498	BSK



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Table 7b: Canadian MRA - ISED Scope of Accreditation

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
General Requirements for Compliance of Radio Apparatus	Conducted and Radiated Tests 9 kHz to 200 GHz	RSS-Gen Issue 5:2018 ANSI C63.4:2014 ANSI C63.10:2013 ANSI C63.26:2015	BSK
Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus	RF Exposure (Measured) Specific Absorption Rate 6MHz to 6.5GHz	RSS-102 Issue 5 SAR IEC/IEEE 62209-1528:2020	BSK
Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus	RF Exposure (Measured) RF Exposure Evaluation	RSS-102 Issue 5 RF Exposure Evaluation	BSK
Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus	RF Exposure (Measured) 3 kHz to 10 MHz Nerve Stimulation	RSS-102 Issue 5 SPR-002 Issue1	BSK
Broadband Public Safety Equipment Operating in the Band 4940-4990 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-111 Issue 5, September 2014	BSK
Land Mobile and Fixed Equipment Operating in the Frequency Range 7.41-960 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-119 Issue 12, May 2015	BSK
Equipment Operating in the Frequency Bands 617-652 MHz, 663-698 MHz, 698-756 MHz and 777-787 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-130 Issue 2, February 2019	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz	Conducted and Radiated Tests 9 kHz to 9 GHz	RSS-132 Issue 4, 31 January 2023	BSK
2 GHz Personal Communications Services	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-133 Issue 6, January 2013 Updated January 2018 Amendment January 2018	BSK
Location and Monitoring Service in the Band 902-928 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-137 Issue 2, February 2009	BSK
Advanced Wireless Services Equipment Operating in the Bands 1710-1780 MHz and 2110-2180 MHz	Conducted and Radiated Tests 9 kHz to 25 GHz	RSS-139 Issue 4, 29 September 2022	BSK
Narrowband Multipoint Communication Systems in the Bands 1429.5-1432 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-142 Issue 5, April 2013	BSK
Local Multipoint Communication Systems in the Band 25.35-28.35 GHz; Point-to-Point and Point-to-Multipoint Broadband Communication Systems in the Bands 24.25-24.45 GHz and 25.05-25.25 GHz; and Point-to-Multipoint Broadband Communications in the Band 38.6-40.0 GHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-191 Issue 3, April 2008	BSK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Wireless Communications Service Equipment Operating in the Bands 2305-2320 MHz and 2345-2360 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-195 Issue 2, April 2014	BSK
Broadband Radio Service (BRS) Equipment Operating in the Band 2500-2690 MHz	Conducted and Radiated Tests 9 kHz to 27 GHz	RSS-199 Issue 4, 20 July 2023	BSK
Licence-Exempt Radio Apparatus: Category I Equipment	Conducted and Radiated Tests 9 kHz to 200 GHz	RSS-210 Issue 10, Amendment 1 April 2020	BSK
Licence-Exempt Radio Apparatus: Category II Equipment	Conducted and Radiated Tests 9 kHz to 200 GHz	RSS-310 Issue 5, January 2020	BSK
Level Probing Radar Equipment	Conducted and Radiated Tests 9 kHz to 200 GHz	RSS-211 Issue 1, March 6 2015	BSK
Wireless Power Transfer Devices	Laboratory measurement facilities / AC mains conducted emissions and radiated emissions / Measurement range 0.009 MHz to 1000 MHz	RSS-216 Issue 2, Amendment 1, September 2020 ICES-001 Issue 5, July 2020	BSK
Ultra-Wideband (UWB) Technology	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-220 Issue 1, March 2009 Amended July 2018	BSK
Digital Transmission Systems (DTSSs), Frequency Hopping Systems (FHSSs) and Licence-Exempt Local Area Network (LE-LAN) Devices	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-247 Issue 3, August 2023 with DFS Testing	BSK
END			