

Annex to declaration of accreditation (scope of accreditation)  
Normative document: EN ISO/IEC 17025:2017  
Registration number: **L 022**

of **DEKRA Certification B.V.**

This annex is valid from: **17-04-2024** to **01-05-2026**

Replaces annex dated: **19-01-2024**

**Location(s) where activities are performed under accreditation**

**Head Office**

Meander 1051  
6825 NL  
Arnhem  
The Netherlands

<b>Location</b>	<b>Abbreviation/ location code</b>
Meander 1051 6825 NL Arnhem The Netherlands	A.

<b>No.</b>	<b>Material or product</b>	<b>Type of activity<sup>1</sup></b>	<b>Internal reference number</b>	<b>Location</b>
<b>Electrical Safety Tests</b>				

<sup>1</sup> If there is a referral to a code starting with NAW, NAP, EA or IAF, this concerns a scheme mentioned on [RvA-BR010-lijst](#).  
If no date or version number is mentioned for a normative document, the accreditation concerns the most current version of the document or scheme.

This annex has been approved by the Board of the  
Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas

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No.	Material or product	Type of activity <sup>1</sup>	Internal reference number	Location
1.	Cables and cords <b>(CABL)</b>	Type test of cables and cords according to the tests in the standard: <ul style="list-style-type: none"> <li>- Fire and Flammability tests</li> <li>- Electric parameter tests</li> <li>- Dielectric properties determination</li> <li>- Mechanical Tests</li> <li>- Isolation properties determination</li> </ul>	HD 21 HD 22 HD 603 HD 604 HD 605  EN 13501, EN 50143; EN 50214; EN 50267; EN 50525; EN 50288; EN 50399; EN 50618  NEN/EN 50200 NEN/EN/IEC 60228 NEN-EN 50525 NEN/EN 50266 NEN/EN 50362 NEN/EN /IEC 61034  IEC 60092, IEC 60227-1, IEC 60227-2, IEC 60227-3, IEC 60227-5, IEC 60227-7; IEC 60245-1, IEC 60245-2, IEC 60245-4, IEC 60245-8 IEC 60331; IEC 60332; IEC 60502-1; IEC 60502-2; IEC 60754; IEC 60800; IEC 60840; IEC 62067  DEKRA K 42; DEKRA K 102 DEKRA K 145; DEKRA K 146 DEKRA K 151; DEKRA K 152 DEKRA K 156; DEKRA K 157 DEKRA K 158; DEKRA K160 DEKRA K 161; DEKRA K 162 DEKRA K 163; DEKRA K 164 DEKRA K 165; DEKRA K 167 DEKRA K 168; DEKRA K 169 DEKRA K 170; DEKRA K 171 DEKRA K 175; DEKRA K 176 DEKRA K 177; DEKRA K 178 DEKRA K 179	A.

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			BS 6004; BS 6007; BS 4553; BS 5467; BS 6231; BS 6346; BS 6387; BS 6500; BS 6622; BS 6724; BS 6883; BS 7211; BS 7629; BS 7835; BS 7846; BS 7889; BS 8491; BS EN 50288-7 BS EN 50525  DIN VDE0815; DIN VDE0250	A.
2.	Cables and cords <b>(CABL)</b>	Test methods for non-metallic materials	IEC 60811-201; IEC 60811-202 IEC 60811-203; IEC 60811-401 IEC 60811-402; IEC 60811-403 IEC 60811-404; IEC 60811-405 IEC 60811-406; IEC 60811-408 IEC 60811-409; IEC 60811-411 IEC 60811-412; IEC 60811-501 IEC 60811-502; IEC 60811-503 IEC 60811-504; IEC 60811-505 IEC 60811-506; IEC 60811-507 IEC 60811-508; IEC 60811-509 IEC 60811-510; IEC 60811-511 IEC 60811-605; IEC 60811-606 IEC 60811-607	A.
3.	Cables and cords <b>(CABL)</b>	Electrical test methods for low voltage energy cables	NEN-EN 50395	A.
4.	Cables and cords <b>(CABL)</b>	Non electrical test methods for low voltage energy cables	NEN-EN 50396	A.
5.	Conduits	Type test of conduits according to the tests in the standard, among others:  - electrical safety tests  - mechanical tests  - environmental tests	NEN/EN/IEC 61386  DEKRA K24  EN 50086	A.

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6.	Installation systems  Cable trays  Cable ladders	Type test of cable trays and cable ladders, according to the tests in the standard, among others:  - electrical safety tests  - mechanical tests  - environmental tests	KEMA 55  NEN/EN 50085 NEN/IEC/EN 61537  BS EN 61537	A.
7.	Boxes and enclosures for electrical installations	Type test of boxes and enclosures for electrical installations, according to the tests in the standard, among others:  - electrical safety tests  - mechanical tests  - environmental tests	NEN/EN/IEC 60670	A.
8.	Switches for appliances and automatic controls for electrical household appliances <b>(CONT)</b>	Type test according to the tests in the standard:  - Temperature tests - Water and dust ingress tests - Chemical tests - Fire and Flammability tests - Electric parameter tests - Short circuit tests - Dielectric properties determination - Endurance tests - Mechanical Tests - Radiation tests - Isolation properties determination.	IEC 60730-1, EN 60730-1 IEC 60730-2-2, EN 60730-2-2 IEC 60730-2-3, EN 60730-2-3 IEC 60730-2-4, EN 60730-2-4 IEC 60730-2-6, EN 60730-2-6 IEC 60730-2-7, EN 60730-2-7 IEC 60730-2-8, EN 60730-2-8 IEC 60730-2-9, EN 60730-2-9 IEC 60730-2-10, EN 60730-2-10 IEC 60730-2-11, EN 60730-2-11 IEC 60730-2-22, EN 60730-2-22 IEC 61095, EN 61095 IEC 61058 zie Cat. INST IEC/EN 60691, 60934, 60529, IEC 60265, 62271-1, 62271-100, 62271-101, 62271-102, 62271-105, 62271-110, 62271-200, 62271-201, 62271-202, 62271-203, EN 50152-1  IEEE Std C37.09, C37.081, 37.60, C37.013, C37.34, ANSI C37.41, C37.73, C37.20.2, C37.122 ANSI/IEEE C37.21 ANSI C37.54, C37.55, C37.20.2, C37.72	A.

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9.	Household and similar equipment (HOUS)	Type test of household equipment according to the tests in the standard: <ul style="list-style-type: none"> <li>- Temperature tests</li> <li>- Water and dust ingress tests</li> <li>- Fire and Flammability tests</li> <li>- Electric parameter tests</li> <li>- Short circuit tests</li> <li>- Dielectric properties determination</li> <li>- Endurance tests</li> <li>- Mechanical Tests</li> <li>- Radiation tests</li> <li>- EMC – Emission tests</li> <li>- Isolation properties determination</li> </ul>	IEC 60335-1 IEC 60335-2-2, EN 60335-2-2 IEC 60335-2-3, EN 60335-2-3 IEC 60335-2-4, EN 60335-2-4 IEC 60335-2-5, EN 60335-2-5 IEC 60335-2-6, EN 60335-2-6 IEC 60335-2-7, EN 60335-2-7 IEC 60335-2-8, EN 60335-2-8 IEC 60335-2-9, EN 60335-2-9 IEC 60335-2-10, EN 60335-2-10 IEC 60335-2-11, EN 60335-2-11 IEC 60335-2-12, EN 60335-2-12 IEC 60335-2-13, EN 60335-2-13 IEC 60335-2-14, EN 60335-2-14 IEC 60335-2-15, EN 60335-2-15 IEC 60335-2-17, EN 60335-2-17 IEC 60335-2-21, EN 60335-2-21 IEC 60335-2-23, EN 60335-2-23 IEC 60335-2-24, EN 60335-2-24 IEC 60335-2-25, EN 60335-2-25 IEC 60335-2-27, EN 60335-2-27 IEC 60335-2-30, EN 60335-2-30 IEC 60335-2-31, EN 60335-2-31 IEC 60335-2-32, EN 60335-2-32 IEC 60335-2-35, EN 60335-2-35 IEC 60335-2-36, EN 60335-2-36 IEC 60335-2-40, EN 60335-2-40 IEC 60335-2-41, EN 60335-2-41 IEC 60335-2-42, EN 60335-2-42 IEC 60335-2-52, EN 60335-2-52 IEC 60335-2-54, EN 60335-2-54 IEC 60335-2-58, EN 60335-2-58 IEC 60335-2-60, EN 60335-2-60 IEC 60335-2-61, EN 60335-2-61 IEC 60335-2-64, EN 60335-2-64 IEC 60335-2-65, EN 60335-2-65 IEC 60335-2-67, EN 60335-2-67 IEC 60335-2-68, EN 60335-2-68 IEC 60335-2-69, EN 60335-2-69 IEC 60335-2-72, EN 60335-2-72 IEC 60335-2-75, EN 60335-2-75 IEC 60335-2-79, EN 60335-2-79 IEC 60335-2-80, EN 60335-2-80 IEC 60335-2-81, EN 60335-2-81 IEC 60335-2-87, EN 60335-2-87 IEC 60335-2-88, EN 60335-2-88	A.

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			IEC 60335-2-89, EN 60335-2-89 IEC 60335-2-90, EN 60335-2-90 IEC 60335-2-96, EN 60335-2-96 IEC 60335-2-97, EN 60335-2-97 IEC 60335-2-98, EN 60335-2-98 IEC 60335-2-99, EN 60335-2-99 IEC 60335-2-101, EN 60335-2-101 IEC 60335-2-109, EN 60335-2-109  IEC/EN 61770 IEC/EN 62233 EN 50366 IEC/EN 60204 IEC/EN 60730-1/ 2-8 / 2-9 IEC/EN 61558-1/ 2-3 / 2-6 / 2-5 / 2-6 / 2-16 IEC/EN 62061 EN/ISO 13849-1	
10.		Low power measurements	IEC/EN 62301	A.

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11.	Installation accessories and connection devices <b>(INST)</b>	Type test of installation accessories and connection devices according to the tests in the standard: <ul style="list-style-type: none"> <li>- Temperature tests</li> <li>- Water and dust ingress tests</li> <li>- Chemical tests</li> <li>- Fire and Flammability tests</li> <li>- Electric parameter tests</li> <li>- Short circuit tests</li> <li>- Dielectric properties determination</li> <li>- Endurance tests</li> <li>- Mechanical Tests</li> <li>- Isolation properties determination</li> </ul>	IEC 60309-1, EN 60309-1 IEC 60309-2, EN 60309-2 IEC 60309-4 EN 60309-4 IEC 60320-1, EN 60320-1 IEC 60320-2-1, EN 60320-2-1 IEC 60320-2-2, EN 60320-2-2 IEC 60320-2-3, EN 60320-2-3 IEC 60320-3, EN 60320-3 IEC 60669-1, EN 60669-1 IEC 60669-2-1, EN 60669-2-1 IEC 60669-2-4, EN 60669-2-4 IEC 60669-2-5, EN 60669-2-5 IEC 60670, EN 60670 IEC 60670-1, EN 60670-1 IEC 60670-21, EN 60670-21 IEC 60670-22, EN 60670-22 IEC 60670-23, EN 60670-23 IEC 60670-24, EN 60670-24 IEC 60884-1, EN 60884-1 IEC 60884-2-5, EN 60884-2-5 IEC 60998-1, EN 60998-1 IEC 60998-2-1, EN 60998-2-1 IEC 60998-2-2, EN 60998-2-2 IEC 60998-2-3, EN 60998-2-3 IEC 60998-2-4, EN 60998-2-4 IEC 61058-1, EN 61058-1 IEC 61534-1, EN 61534-1 IEC 61534-21, EN 61534-21 IEC 62208, EN 62208  60974, 61316, 61386, 62094 EN 50075, 50066, 50146, 50250, 50393 NEN 1251, 61238, 62080 BS 1363-1, BS 1363-2, BS 1363-3, BS 1363-4 SS 145 BS 546, BS 4573, BS 5733 NEN 1020 NF C61-314 DIN VDE 0620-1, DIN VDE 0620-2-1 CEI 23-50	A.

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			NBN C 61-112-1 NEK IEC 60884-1, NEK 502 ÖVE/ÖNORM E 8684-1 ÖVE/ÖNORM E 8620-2(-3,-4, -5) SFS 5610 SS 428 08 34 DS 60884-2-D1 SEV 1011 UNE 20315-1-1; UNE 20315-1-2 IEC/EN 61535 EN 50428 required with 60669	



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12.	Luminaires <b>(LITE)</b>	Type test of luminaires according to the tests in the standard: <ul style="list-style-type: none"> <li>- Temperature tests</li> <li>- Water and dust ingress tests</li> <li>- Photometric tests</li> <li>- Chemical tests</li> <li>- Fire and Flammability tests</li> <li>- Electric parameter tests</li> <li>- Short circuit tests</li> <li>- Dielectric properties determination</li> <li>- Endurance tests</li> <li>- Mechanical Tests</li> <li>- Radiation tests</li> <li>- Isolation properties determination</li> </ul> CPS system for Emergency lighting  Battery cabinet for central power supply system for energizing emergency escape lighting	EN 13032-4 IEC 60155, EN 60155 IEC 60238, EN 60238 IEC 60570 IEC 60598-1, EN 60598-1 IEC 60598-2-1, EN 60598-2-1 IEC 60598-2-2, EN 60598-2-2 IEC 60598-2-3, EN 60598-2-3 IEC 60598-2-4, EN 60598-2-4 IEC 60598-2-5, EN 60598-2-5 IEC 60595-2-8, EN 60598-2-8 IEC 60598-2-10, EN 60598-2-10 IEC 60598-2-11, EN 60598-2-11 IEC 60598-2-12, EN 60598-2-12 IEC 60598-2-13, EN 60598-2-13 IEC 60598-2-19, EN 60598-2-19 IEC 60598-2-20, EN 60598-2-20 IEC 60598-2-21, EN 60598-2-21 IEC 60598-2-22, EN 60598-2-22 IEC 60598-2-24, EN 60598-2-24 IEC 60598-2-25, EN 60598-2-25 IEC 60838-1, EN 60838-1 IEC 60838-2-2, EN 60838-2-2 IEC 60921, EN 60921 IEC 60968, EN 60968 IEC 60969, EN 60969 IEC 61347-1, EN 61347-1 IEC 61347-2-1, EN 61347-2-1 IEC 61347-2-2, EN 61347-2-2 IEC 61347-2-3, EN 61347-2-3 IEC 61347-2-7, EN 61347-2-7 IEC 61347-2-8, EN 61347-2-8 IEC 61347-2-9, EN 61347-2-9 IEC 61347-2-11, EN 61347-2-11 IEC 61347-2-12, EN 61347-2-12 IEC 61347-2-13, EN 61347-2-13 IEC 62471, EN 62471 IEC/EN 60929, 61184, 62031, 62035, 60923, 60925, 60927, 61047, 62384, 62560, 61195, 62493  EN 50171  IEC/EN 62485-2	A.

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13.	Luminaires <b>(LITE)</b>	Type test of led lamps and led luminaires according to the tests in the standard:  - Measurement of photometric quantities - Measurement of colour quantities	EN 13032-4	A.
14.	Measurement, control and laboratory equipment <b>(MEAS)</b>	Type test of measurement-, control- and laboratory equipment according to the tests in the standard:  - Temperature tests - Water and dust ingress tests - Fire and Flammability tests - Electric parameter tests - Short circuit tests (fault conditions) - Dielectric properties determination - Endurance tests - Mechanical Tests - Radiation tests - Isolation properties determination	IEC 61010-1, EN 61010-1 IEC 61010-2-010, EN 61010-2-010 IEC 61010-2-030, EN 61010-2-030 IEC 61010-2-040, EN 61010-2-040 IEC 61010-2-051, EN 61010-2-051 IEC 61010-2-081, EN 61010-2-081 IEC 61010-2-091, EN 61010-2-091 IEC 61010-2-101, EN 61010-2-101 IEC 61010-2-201, EN 61010-2-201 IEC 61010-031, EN 61010-031  IEC/EN 60044 IEC/EN 61243 IEEE Std C57.13	A.
15.	Electrical equipment for medical use <b>(MED)</b>	Type test of electrical equipment for medical use according to the tests in the standard:  - Temperature tests - Water and dust ingress tests - Chemical tests - Fire and Flammability tests - Electric parameter tests - Short circuit tests - Dielectric properties determination - Endurance tests - Mechanical Tests - Radiation tests - Isolation properties determination - EMC – Emission tests - EMC – Immunity tests  IEC 60601-2-66 & EN 60601-2-66: Acoustic measurements according subclauses 201.9.6 & 201.13.1.2 are	IEC 60601-1, EN 60601-1 IEC 60601-1-1, EN 60601-1-1 IEC 60601-1-3, EN 60601-1-3 IEC 60601-1-4, EN 60601-1-4 IEC 60601-1-6, EN 60601-1-6 IEC 60601-1-8, EN 60601-1-8 IEC 60601-1-9, EN 60601-1-9 IEC 60601-1-10, EN 60601-1-10 IEC 60601-1-11, EN 60601-1-11 IEC 60601-2-2, EN 60601-2-2 IEC 60601-2-8, EN 60601-2-8 IEC 60601-2-10, EN 60601-2-10 IEC 60601-2-12, EN 60601-2-12 IEC 60601-2-16, EN 60601-2-16 IEC 60601-2-17, EN 60601-2-17 IEC 60601-2-18, EN 60601-2-18 IEC 60601-2-19, EN 60601-2-19 IEC 60601-2-22, EN 60601-2-22 IEC 60601-2-24, EN 60601-2-24 IEC 60601-2-25, EN 60601-2-25 IEC 60601-2-26, EN 60601-2-26	A.

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		subcontracted to the DEKRA laboratory in Malaga (Spain)	IEC 60601-2-27, EN 60601-2-27 IEC 60601-2-37, EN 60601-2-37 IEC 60601-2-40, EN 60601-2-40 IEC 60601-2-41, EN 60601-2-41 IEC 60601-2-46, EN 60601-2-46 IEC 60601-2-49, EN 60601-2-49 IEC 60601-2-52, EN 60601-2-52 IEC 60601-2-54, EN 60601-2-54 IEC 60601-2-57, EN 60601-2-57 IEC 60601-2-66, EN 60601-2-66 IEC 80601-2-26, EN 80601-2-26 IEC 80601-2-49, EN 80601-2-49 IEC 80601-2-58, EN 80601-2-58 IEC 80601-2-60, EN 80601-2-60  ISO 80601-2-61  IEC/EN/ISO 80601	
16.	Miscellaneous equipment <b>(MISC)</b>	Type test of miscellaneous equipment according to the tests in the standard: - Temperature tests - Water and dust ingress tests - Photometric tests - Fire and Flammability tests - Electric parameter tests - Short circuit tests - Endurance tests - Isolation properties determination	IEC 60825-1, EN 60825-1 IEC 60825-2, EN 60825-2.	A.
17.	IT and office equipment <b>(OFF)</b>	Type test of IT and office equipment according to the tests in the standard: - Temperature tests - Water and dust ingress tests - Fire and Flammability tests - Electric parameter tests - Short circuit tests (fault conditions) - Dielectric properties determination - Endurance tests - Mechanical Tests - Radiation tests - Isolation properties determination	IEC 60950-1, EN 60950-1 IEC 60950-22, EN 60950-22 IEC 62040-1, EN 62040-1  IEC/EN 60825 IEC 62368 EN 41003	A.

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18.	Low voltage, high power switching equipment (POW)	Type test of low voltage, high power switching equipment according to the tests in the standard: <ul style="list-style-type: none"> <li>- Temperature tests</li> <li>- Water and dust ingress tests</li> <li>- Chemical tests</li> <li>- Fire and Flammability tests</li> <li>- Electric parameter tests</li> <li>- Short circuit tests</li> <li>- Dielectric properties determination</li> <li>- Endurance tests</li> <li>- Mechanical Tests</li> <li>- Isolation properties determination</li> <li>- EMC – Emission tests</li> <li>- EMC – Immunity tests</li> <li>- EMC – Radiation test</li> </ul>	IEC 61439, EN 61439 IEC 60439-2, EN 60439-2 IEC 60439-3, EN 60439-3 IEC 60439-4, EN 60439-4 IEC 60439-5, EN 60439-5 IEC 60439-6, EN 60439-6 IEC 60947-2, EN 60947-2 IEC 60947-3, EN 60947-3 IEC 60947-4-1, EN 60947-4-1 IEC 60947-4-2, EN 60947-4-2 IEC 60947-4-3, EN 60947-4-3 IEC 60947-5-1, EN 60947-5-1 IEC 60947-6-1, EN 60947-6-1 IEC 60947-6-2, EN 60947-6-2 IEC 60947-7-1, EN 60947-7-1 IEC 60947-7-2, EN 60947-7-2 IEC 60947-7-3, EN 60947-7-3 IEC 60947-7-4, EN 60947-7-4  IEC/EN 60282, 62208 EN 50178, IEC 60470, 60549, 60644, EN 60282-1 IEEE Std C37.41, C37.60 ANSI C37.44 IEC 61921	A.

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19.	Installation protective equipment ( <b>PROT</b> )	Type test of installation protective equipment according to the tests in the standard: <ul style="list-style-type: none"> <li>- Temperature tests</li> <li>- Water and dust ingress tests</li> <li>- Fire and Flammability tests</li> <li>- Electric parameter tests</li> <li>- Short circuit tests</li> <li>- Dielectric properties determination</li> <li>- Endurance tests</li> <li>- Mechanical Tests</li> <li>- Isolation properties determination</li> <li>- EMC – Emission tests</li> <li>- EMC – Immunity tests</li> <li>- EMC – Radiation tests</li> </ul>	IEC/EN 60755, 62019  IEC 60529  IEC 60127-6, EN 60127-6 IEC 60269-3, EN 60269-3 IEC 60898-1, EN 60898-1 IEC 60898-2, EN 60898-2 IEC 61008-1, EN 61008-1 IEC 61008-2-1, EN 61008-2-1 IEC 61009-1, EN 61009-1 IEC 61009-2-1, EN 61009-2-1 IEC 61009-2-2, EN 61009-2-2 IEC 61643-11, EN 61643-11 IEC 61643-31, EN 61643-31  IEC 60099, 60137, 60168, 60383, 60507, 60660, 61109, 60815 HD 630, 639, 60269 IEEE Std 62.11 ANSI C29 CAN/CSA C411.1	A.
20.	Battery ( <b>BATT</b> )	Type test of batteries according to the tests in the standard: <ul style="list-style-type: none"> <li>- Continuous charge</li> <li>- Case stress</li> <li>- External short-circuit</li> <li>- Free fall</li> <li>- Thermal abuse</li> <li>- Crush</li> <li>- Overcharge</li> <li>- Forced discharge</li> <li>- Mechanical                             <ul style="list-style-type: none"> <li>- Vibration</li> <li>- Mechanical shock</li> </ul> </li> <li>- <del>Forced internal short</del></li> <li>- Measurement of the internal AC resistance for coin cells</li> </ul>	IEC/EN 62133-2	A.

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21.	Battery <b>(BATT)</b>	Type test of batteries according to the tests in the standard: - Discharge performance at 25°C - Discharge performance at low temperature - High rate permissible current - Charge (capacity) retention and recovery - Internal a.c. resistance - Internal d.c. resistance - Endurance in cycle - Endurance in storage at constant voltage( permanent charge life)	IEC/EN 62620	A.
22.	Installation protective equipment <b>(PROT)</b>	Type test of installation protective equipment according to the tests in the standard: - Temperature tests - Water and dust ingress tests - Fire and Flammability tests - Electric parameter tests - Short circuit tests - Dielectric properties determination - Endurance tests - Mechanical Tests - Isolation properties determination - EMC – Emission tests - EMC – Immunity tests - EMC – Radiation tests	IEC/EN 60755, 62019  IEC 60529  IEC 60127-6, EN 60127-6 IEC 60269-3, EN 60269-3 IEC 60898-1, EN 60898-1 IEC 60898-2, EN 60898-2 IEC 61008-1, EN 61008-1 IEC 61008-2-1, EN 61008-2-1 IEC 61009-1, EN 61009-1 IEC 61009-2-1, EN 61009-2-1 IEC 61009-2-2, EN 61009-2-2 IEC 61643-11, EN 61643-11 IEC 61643-31, EN 61643-31  IEC 60099, 60137, 60168, 60383, 60507, 60660, 61109, 60815 HD 630, 639, 60269 IEEE Std 62.11 ANSI C29 CAN/CSA C411.1	A.

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No.	Material or product	Type of activity <sup>1</sup>	Internal reference number	Location
23.	Safety transformers and similar equipment <b>(SAFE)</b>	Type test of safety transformers and similar equipment according to the tests in the standard:  Temperature tests - Water and dust ingress tests - Fire and Flammability tests - Electric parameter tests - Short circuit tests - Dielectric properties determination - Endurance tests - Mechanical Tests - Isolation properties determination	IEC 61869-1, EN 61869-1 IEC 61869-2, EN 61869-2 IEC 61558-1, EN 61558-1 IEC 61558-2-1, EN 61558-2-1 IEC 61558-2-4, EN 61558-2-4 IEC 61558-2-5, EN 61558-2-5 IEC 61558-2-6, EN 61558-2-6 IEC 61558-2-7, EN 61558-2-7 IEC 61558-2-8, EN 61558-2-8 IEC 61558-2-13, EN 61558-2-13 IEC 61558-2-15, EN 61558-2-15 IEC 61558-2-16, EN 61558-2-16  IEC/EN 62040, IEC/EN 60076, IEC/EN 60353 EN 50091, EN 50464-1 HD 538.1 IEEE Std. C57.12.90, C57.21 NEMA 107 CISPR 16	A.
24.	Electronics, entertainment equipment <b>(TRON)</b>	Type test according to the tests as mentioned in the standard, except the following tests which are subcontracted: - Temperature tests - Water and dust ingress tests - Chemical tests - Fire and Flammability tests - Electric parameter tests - Short circuit tests - Dielectric properties determination - Endurance tests - Mechanical Tests - Radiation tests - Isolation properties determination  Except the following tests which are subcontracted:  60065, cl. 20.1.3 Pre-conditioning of printed circuit boards 60065, cl. 12.1.2 Vibration-sine	IEC 60065, EN 60065  IEC / EN 60491 IEC 62368	A.

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No.	Material or product	Type of activity <sup>1</sup>	Internal reference number	Location
<b>Photometric Tests</b> (all tests are in accordance with the reference method)				
25.	Headlamps low and high beams and front fog lamps	All tests as mentioned in the ECE Regulations stated under Test method <sup>1</sup>  Photometry Colorimetry Heat tests Plastic tests	ECE Regulations Nos. 1, 5, 8, 19, 20, 31, 56, 57, 72, 76, 82, 98, 112, 113, 123, 149; European Directives 76/761, 76/762 and 97/24	A.
26.	Headlamps low and high beams and front fog lamps	All tests as mentioned in de FMVSS, CMVSS and SAE (methods)  Photometry Colorimetry	FMVSS108 (49CFR 571.108); CMVSS 108, 108.1, 1201; SAE J578, J581, J582, J583, J591, J852, J1383, J1735, J2595;  SAE (Methods) J575, J2139, J1889, J2650, J1306, J1623	A.
27.	Signalling lamps	All tests as mentioned in the ECE Regulations stated under Test method  Photometry Colorimetry Heat test	ECE Regulations Nos. 6, 7, 23, 38, 50, 77, 87, 91, 148 and European Directives 76/757, 76/759, 76/758, 77/538, 77/539, 77/540 and 97/24 ECE Regulation 38 (rear fog lamps only)	A.
28.		All tests as mentioned in de FMVSS, CMVSS and SAE(methods)  Photometry Colorimetry	FMVSS108 (49CFR 571.108); CMVSS 108, 108.1, 1201; SAE J222, J578, J585, J586, J587, J588, J592, J593, J914, J1319, J1373, J1395, J1398, J1424, J1432, J1957, J2039, J2040, J2042, J2087, J2261, J131, J584;	A.
29.	Devices for the illumination of rear registration plates	All tests as mentioned in the ECE Regulations stated under Test method Luminance Colorimetry	ECE Regulations Nos. 4, 50, 148 European Directives 76/760 and 97/24	A.
30.		All tests as mentioned in de FMVSS, CMVSS and SAE (methods)  Luminance Colorimetry	FMVSS 108 (49 CFR 571.108); CMVSS 108;  SAE J578, J587;	A.



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No.	Material or product	Type of activity <sup>1</sup>	Internal reference number	Location
31.	Retro-reflective devices  excluding advance-warning triangles	All tests as mentioned in the ECE Regulations stated under Test method <sup>2</sup>  Retro-reflection Colorimetry Water resistance test Corrosion Fuel and oil resistance Heat test UV resistance	ECE Regulations Nos. 3, 69, 70, 88, 104, 150 European Directive 76/757	A.
32.		All tests as mentioned in de FMVSS, CMVSS and SAE (methods)  Retro-reflection Colorimetry	FMVSS 108 (49 CFR 571.108), CMVSS 108, 108.1, SAE J578, J594, J774, J1967, J2041	A.
33.	Light Sources	All tests as mentioned in the ECE Regulations stated under Test method  Geometry Photometry Colorimetry Optical quality Mechanical tests	ECE Regulations Nos. 37, 99 IEC 60809 IEC 60810 IEC 60983  IEC 60061	A.
34.	Special warning lamps (beacons and flash lights)	All tests as mentioned in the ECE Regulations stated under Test method  Photometry Colorimetry Water resistance test	ECE Regulation No. 65	A.
35.	Cornering Lamps	All tests as mentioned in the ECE Regulations stated under Test method  Photometry Colorimetry	ECE Regulation No.119, 149	A.
36.		All tests as mentioned in de FMVSS, CMVSS and SAE (methods)  Photometry Colorimetry	FMVSS108 (49CFR 571.108); CMVSS 108, 108.1, 1201; SAE J578, J852 SAE (Methods) J575, J2139, J1889, J2650, J1306, J1623;	A.

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No.	Material or product	Type of activity <sup>1</sup>	Internal reference number	Location
37.	Non-directional Solid State Luminaires and Subcomponents	Electrical and Photometric Measurements of Solid-State Lighting Products (section 10 not required for non-directional or subcomponents): - Efficacy, - Light Output, - Lumen Maintenance, - CCT, CRI, - Color Maintenance	IES LM-79	A.
38.	Non-directional Solid State Luminaires and Subcomponents	Characterization of LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of: - Temperature, -Efficacy, - Light Output, - Lumen Maintenance, - CCT , CRI, - Color Maintenance, - Light Source Life	IES LM-82	A.
39.	LED Directional Lamps	Electrical and Photometric Measurements of Solid-State Lighting Products, - Efficacy, - Light Output, -Lumen Maintenance, - Lifetime, - CCT, CRI, - Color Maintenance	IES LM-79  (excluding par. 9.3, 10.0 en 12.5)	A.
40.	LED Omnidirectional and Decorative Lamps	Electrical and Photometric Measurements of Solid-State Lighting Products, - Efficacy, - Light Output, -Lumen Maintenance, - Lifetime, - CCT, CRI, - Color Maintenance	IES LM-79  (excluding par. 9.3, 10.0 en 12.5)	A.
41.	All Lamps (Light Bulbs)	- Efficacy, - Light Output, - Lumen Maintenance, - CCT, CRI, - Color Maintenance	IES LM-79	A.

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No.	Material or product	Type of activity <sup>1</sup>	Internal reference number	Location
42.	All Luminaire and Subcomponents	<ul style="list-style-type: none"> <li>- Efficacy,</li> <li>- Light Output,</li> <li>- Lumen Maintenance,</li> <li>- CCT, CRI,</li> <li>- Color Maintenance</li> </ul>	IES LM-79 IES LM-82	A.
<b>Radio Testing</b>				
43.	Radio transmitters and receivers	Carrier/Operating frequency/Permitted Range of operating frequencies  10 Hz – 40 GHz	2231, 2232, 2230, 3892  ETSI EN 300 330, ETSI EN 301 893, ETSI EN 300 440 ETSI EN 303 417	A.

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No.	Material or product	Type of activity <sup>1</sup>	Internal reference number	Location
44.		Unwanted emissions in the spurious domain (Transmitter/Receiver) 9 KHz – 40 GHz	2231, 2232, 2229, 2238, 2230, 2235, 2860, 3892  ETSI EN 300 330 ETSI EN 301 893 ETSI EN 300 220-{1-2} ETSI EN 300 328 ETSI EN 300 440 ETSI EN 301 511 ETSI EN 301 908-1 ETSI EN 303 413 ETSI EN 303 417  FCC (2226, 2227, 2228, 2233, 2234, 2236, 3041)  CFR 47 FCC, Part 15, Subpart C 15.231 / ISED RSS-210, CFR 47 FCC, Part 15, Subpart C 15.249 / ISED RSS-210, ISED RSS-247 CFR 47 FCC, Part 15, Subpart C 15.225 / ISED RSS-210 / ISED RSS-GEN CFR 47 FCC, Part 15, Subpart C 15.247 / ISED RSS-247 CFR 47 FCC, Part 15, Subpart E 15.407  (Using ANSI C63.10-2013 and KDB 558074 D01, 662911 D01, 789033 D02)  CFR 47 FCC, Parts 22, 24, 25, 27 / ISED RSS-130, 132, 133, 134, 139, 199  (Using ANSI C63.26-2015. ANSI/TIA-603 E:2016 and KDB 971168 D01)	A.

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No.	Material or product	Type of activity <sup>1</sup>	Internal reference number	Location
45.		TX effective radiated power/RF Output Power, 10 nW – 2 W @ 10 Hz – 40 GHz	2232, 2229, 2238, 2230  ETSI EN 301 893, ETSI EN 300 220-{1-2}, ETSI EN 300 328, ETSI EN 300 440  FCC (2226, 2227, 2228, 2233, 2234, 2236, 3041)  CFR 47 FCC, Part 15, Subpart C 15.231 / ISED RSS-210, CFR 47 FCC, Part 15, Subpart C 15.249 / ISED RSS-210, ISED RSS-247 CFR 47 FCC, Part 15, Subpart C 15.225 / ISED RSS-210 / ISED RSS-GEN CFR 47 FCC, Part 15, Subpart C 15.247 / ISED RSS-247 CFR 47 FCC, Part 15, Subpart E 15.407  ( Using ANSI C63.10-2013 and KDB 558074 D01, 662911 D01, 789033 D02)  CFR 47 FCC, Parts 22, 24, 25, 27 / ISED RSS-130, 132, 133-134, 139, 199 (Using ANSI C63.26-2015. ANSI/TIA-603 E:2016 and KDB 971168 D01)	A.

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No.	Material or product	Type of activity <sup>1</sup>	Internal reference number	Location
46.		TX Maximum e.r.p. power spectral density, 10 nW/MHz – 2 W/MHz @ 10 Hz – 40 GHz	2232, 2229, 2238  ETSI EN 301 893, ETSI EN 300 220-{1-2}, ETSI EN 300 328  FCC (2226, 2227, 2228, 2233, 2234)  CFR 47 FCC, Part 15 Subpart C 15.231 / ISED RSS-210, CFR 47 FCC, Part 15, Subpart C 15.249 / ISED RSS-210, ISED RSS-247 CFR 47 FCC, Part 15, Subpart C 15.225 / ISED RSS-210 / ISED RSS-GEN CFR 47 FCC, Part 15, Subpart C 15.247 / ISED RSS-247 CFR 47 FCC, Part 15, Subpart E 15.407  (Using ANSI C63.10-2013 and KDB 558074 D01, 662911 D01, 789033 D02)	A.

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No.	Material or product	Type of activity <sup>1</sup>	Internal reference number	Location
47.		6dB/20dB/26dB/99%/Occupied/Nominal/Bandwidth/Modulation bandwidth  10 Hz – 40 GHz	2230, 2231, 2232, 2229, 2238  ETSI EN 300 440, ETSI EN 300 330, ETSI EN 301 893, ETSI EN 300 220-{1-2}, ETSI EN 300 328  FCC (2226, 2227, 2228, 2233, 2234, 2236, 3041)  CFR 47 FCC, Part 15 Subpart C 15.231 / ISED RSS-210, CFR 47 FCC, Part 15, Subpart C 15.249 / ISED RSS-210, ISED RSS-247 CFR 47 FCC, Part 15, Subpart C 15.225 / ISED RSS-210 / ISED RSS-GEN CFR 47 FCC, Part 15, Subpart C 15.247 / ISED RSS-247 CFR 47 FCC, Part 15, Subpart E 15.407  ( Using ANSI C63.10-2013 and KDB 558074 D01, 662911 D01, 789033 D02)  CFR 47 FCC, Parts 22, 24, 25, 27 / ISED RSS-130, 132, 133-134, 139, 199 (Using ANSI C63.26-2015. ANSI/TIA-603 E:2016 and KDB 971168 D01)	A.
48.		Duty cycle, Tx-Sequence, Tx-gap  Up to 100% @ 10 Hz – 40 GHz	2229, 2238, 2230  ETSI EN 300 220-{1-2}, ETSI EN 300 328, ETSI EN 300 440	A.

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49.		Frequency error, -40 to + 60 °C	2229 EN 300 220-{1-2}  FCC (2226, 2227, 2228, 2233) CFR 47 FCC, Part 15 Subpart C 15.231 / ISED RSS-210, CFR 47 FCC, Part 15, Subpart C 15.249 / ISED RSS-210, ISED RSS-247 CFR 47 FCC, Part 15, Subpart C 15.225 / ISED RSS-210 / ISED RSS-GEN CFR 47 FCC, Part 15, Subpart E 15.407  (Using ANSI C63.10-2013 and KDB 789033 D02)	A.
50.		TX out of band emissions, 9 KHz – 40 GHz	2232, 2229, 2238, 3892  ETSI EN 301 893, ETSI EN 300 220-{1-2}, ETSI EN 300 328 ETSI EN 303 417  FCC (3041)  CFR 47 FCC, Part 25  (Using ANSI C63.26-2015 and KDB 971168)	A.
51.		TX Transient power, 10 nW – 2 W @ 10 Hz – 40 GHz	2229  ETSI EN 300 220-{1-2}	A.
52.		TX Adjacent channel power, 10 nW – 2 W @ 10 Hz – 40 GHz	2229  ETSI EN 300 220-{1-2}	A.
53.		TX behaviour under low voltage conditions	2229  ETSI EN 300 220-{1-2}	A.
54.		TX Adaptive power control	2229  ETSI EN 300 220-{1-2}	A.



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No.	Material or product	Type of activity <sup>1</sup>	Internal reference number	Location
55.		TX FHSS , Accumulated Transmit time, Frequency Occupation & Hopping Sequence, Hopping Frequency Separation	2229, 2238 ETSI EN 300 220-{1-2}, ETSI EN 300 328 FCC (2226, 2227, 2228, 2233, 2234) CFR 47 FCC, Part 15 Subpart C 15.231 / ISED RSS-210, CFR 47 FCC, Part 15, Subpart C 15.249 / ISED RSS-210, ISED RSS-247 CFR 47 FCC, Part 15, Subpart C 15.225 / ISED RSS-210 / ISED RSS-GEN CFR 47 FCC, Part 15, Subpart C 15.247 / ISED RSS-247 CFR 47 FCC, Part 15, Subpart E 15.407  (Using ANSI C63.10-2013 and KDB 558074 D01, 662911 D01, 789033 D02)	A.
56.		TX short term behavior	2229 ETSI EN 300 220-{1-2}	A.
57.		RX Sensitivity level, -150 dBm – 30 dBm	2229 ETSI EN 300 220-{1-2}	A.
58.		Clear channel assessment threshold	2229 ETSI EN 300 220-{1-2}	A.
59.		Polite spectrum access/timing	2229 ETSI EN 300 220-{1-2}	A.
60.		Adaptive Frequency agility	2229 ETSI EN 300 220-{1-2}	A.
61.		Behavior at high wanted signal level	2229 ETSI EN 300 220-{1-2}	A.

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62.		Receiver Blocking or decentralization 9 kHz to 6 GHz	2231, 2232, 2229, 2238, 2230, 2860, 3892  ETSI EN 300 330, ETSI EN 301 893, ETSI EN 300 220-{1-2}, ETSI EN 300 328, ETSI EN 300 440 ETSI EN 303 417 ETSI EN 303 413	A.
63.		Medium Utilization	2238  ETSI EN 300 328	A.
64.		Adaptivity, 9 kHz to 6 GHz	2232, 2238  ETSI EN 301 893, ETSI EN 300 328	A.
65.		Geo-location capability	2232, 2238  ETSI EN 301 893, ETSI EN 300 328	A.
66.		User Access Restrictions	2232  ETSI EN 301 893	A.
67.		Transmitter H-field requirements, 9 KHz – 30 MHz	2231, 3892  ETSI EN 300 330 ETSI EN 303 417	A.
68.		Transmitter RF carrier current, 9 KHz – 135 KHz	2231  ETSI EN 300 330	A.
69.		Transmitter radiated E-field, 9 KHz – 30 MHz	2231  ETSI EN 300 330	A.
70.		Transmitter Frequency Stability	2231  ETSI EN 300 330	A.
71.		Adjacent channel selectivity, 0 dB to -80 dB @ 9 kHz – 6 GHz	2231, 2230  ETSI EN 300 330, ETSI EN 300 440	A.

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72.		Spectrum access Techniques	2230 ETSI EN 300 440	A.
73.		Transmit Power Control (TPC)	2232 ETSI EN 301 893	A.
74.		Band Edge (Low/High)	FCC (2226, 2227, 2228, 2233, 2234) CFR 47 FCC, Part 15, Subpart C 15.231 / ISED RSS-210, CFR 47 FCC, Part 15, Subpart C 15.249 / ISED RSS-210, ISED RSS-247 CFR 47 FCC, Part 15, Subpart C 15.225 / ISED RSS-210 / ISED RSS-GEN CFR 47 FCC, Part 15, Subpart C 15.247 / ISED RSS-247 CFR 47 FCC, Part 15, Subpart E 15.407  (Using ANSI C63.10-2013 and KDB 558074 D01, 662911 D01, 789033 D02)	A.
75.		Field strength of emissions within the band 9 kHz – 40 GHz	FCC (2226, 2227, 2228, 2233, 2234) CFR 47 FCC, Part 15, Subpart C 15.231 / ISED RSS-210, CFR 47 FCC, Part 15, Subpart C 15.249 / ISED RSS-210, ISED RSS-247 CFR 47 FCC, Part 15, Subpart C 15.225 / ISED RSS-210 / ISED RSS-GEN CFR 47 FCC, Part 15, Subpart C 15.247 / ISED RSS-247 CFR 47 FCC, Part 15, Subpart E 15.407  (Using ANSI C63.10-2013 and KDB 558074 D01, 662911 D01, 789033 D02)	A.

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76.		Field strength of emissions outside of the band,  9 kHz – 40 GHz	FCC (2226, 2227, 2228, 2233, 2234)  CFR 47 FCC, Part 15, Subpart C 15.231 / ISED RSS-210, CFR 47 FCC, Part 15, Subpart C 15.249 / ISED RSS-210, ISED RSS-247 CFR 47 FCC, Part 15, Subpart C 15.225 / ISED RSS-210 / ISED RSS-GEN CFR 47 FCC, Part 15, Subpart C 15.247 / ISED RSS-247 CFR 47 FCC, Part 15, Subpart E 15.407  (Using ANSI C63.10-2013 and KDB 558074 D01, 662911 D01, 789033 D02)	A.
77.		Frequency tolerance of the carrier signal	FCC (2226, 2227, 2228, 2233, 2234, 3041)  CFR 47 FCC, Part 15, Subpart C 15.231 / ISED RSS-210, CFR 47 FCC, Part 15, Subpart C 15.249 / ISED RSS-210, /ISED RSS-247 CFR 47 FCC, Part 15, Subpart C 15.225 / ISED RSS-210 / ISED RSS-GEN CFR 47 FCC, Part 15, Subpart C 15.247 / ISED RSS-247 CFR 47 FCC, Part 15, Subpart E 15.407  (Using ANSI C63.10-2013 and KDB 558074 D01, 662911 D01, 789033 D02)  CFR 47 FCC, Part 25  (Using ANSI C63.26-2015 and KDB 971168 D01)	A.

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No.	Material or product	Type of activity <sup>1</sup>	Internal reference number	Location
78.		Number of hopping channels and Dwell time	2230 ETSI EN 300 440 FCC (2226, 2227, 2228, 2233, 2234) CFR 47 FCC, Part 15, Subpart C 15.231 / ISED RSS-210, CFR 47 FCC, Part 15, Subpart C 15.249 / ISED RSS-210, ISED RSS-247 CFR 47 FCC, Part 15, Subpart C 15.225 / ISED RSS-210 / ISED RSS-GEN CFR 47 FCC, Part 15, Subpart C 15.247 / ISED RSS-247 CFR 47 FCC, Part 15, Subpart E 15.407 (Using ANSI C63.10-2013 and KDB 558074 D01, 662911 D01, 789033 D02)	A.
79.		Frequency Stability	FCC (2236) CFR 47 FCC, Parts 22, 24, 27 / ISED RSS-130, 132, 133, 134, 139, 199 (Using ANSI C63.26-2015. ANSI/TIA-603 E:2016 and KDB 971168 D01)	A.
80.		Carrier Frequency Separation	FCC (2226, 2227, 2228, 2233, 2234) CFR 47 FCC, Part 15, Subpart C 15.231 / ISED RSS-210, CFR 47 FCC, Part 15, Subpart C 15.249 / ISED RSS-210, ISED RSS-247 CFR 47 FCC, Part 15, Subpart C 15.225 / ISED RSS-210 / ISED RSS-GEN CFR 47 FCC, Part 15, Subpart C 15.247 / ISED RSS-247 CFR 47 FCC, Part 15, Subpart E 15.407 (Using ANSI C63.10-2013 and KDB 558074 D01, 662911 D01, 789033 D02)	A.

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81.		RF exposure evaluation, 0 Hz to 300 GHz	2239  EN/IEC 62311, EN/IEC 62479, CFR 47 Part 2.1091, CFR 47 Part 2.1093,  RSS-102	A.
82.		Dynamic Frequency Selection (DFS), 10 Hz to 6 GHz	2232  ETSI EN 301 893  FCC (2228)  CFR 47 FCC, Part 15, Subpart E 15.407 / ISSED RSS-247  (Using ANSI C63.10-2013 and KDB 905462 D02)	A.
83.		DFS Tests: Channel Availability Check, Off-Channel CAC – Radar Detection Threshold Level, Off-Channel CAC – Detection Probability, In service Monitoring, Channel shutdown, Non- occupancy period, Uniform spreading, DFS U-NII Detection bandwidth, Statrical performance check  10 Hz to 6 GHz	2232  ETSI EN 301 893  FCC (2228)  CFR 47 FCC, Part 15, Subpart E 15.407 / ISSED RSS-247  (Using ANSI C63.10-2013 and KDB 905462 D02)	A.
84.		TX In-band emissions	2232  ETSI EN 301 893	A.

**Electromagnetic Compatibility (EMC) - Emission (EMC.E)**

Code	Test object or product	Type of test	Method / Reference documents	Location
<b>EMC.E.01</b>	Electric and electronic equipment	Conducted Emissions, Voltage method (AN),  100 KHz - 108 MHz	EN 55025 (CISPR 25)	A.

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No.	Material or product	Type of activity <sup>1</sup>	Internal reference number	Location
<b>EMC. E.02</b>	Electric and electronic equipment	Conducted Emissions Voltage method (AMN),  9 KHz - 30 MHz	EN 55011 (CISPR 11), EN 55013 (CISPR 13), EN 55014-1 (CISPR 14-1), EN 55015 (CISPR 15), EN 55016-1-2 (CISPR 16-1-2), EN 55016-2-1 (CISPR 16-2-1), EN 55022 (CISPR 22), EN 55025 (CISPR 25), EN 55032 (CISPR 32), EN/IEC 60945, ANSI C63.4, MP5-1986, CAN/CSA-CEI/IEC CISPR 11-04, CAN/CSA-CISPR 22-10	A.
<b>EMC. E.03</b>	Electric and electronic equipment	Conducted Emissions Voltage method (LISN),  9 KHz - 30 MHz	EN 55011 (CISPR 11), EN 55013 (CISPR 13), EN 55014-1 (CISPR 14-1), EN 55015 (CISPR 15), EN 55016-1-2 (CISPR 16-1-2), EN 55016-2-1 (CISPR 16-2-1), EN 55022 (CISPR 22), EN 55025 (CISPR 25), EN 55032 (CISPR 32), EN/IEC 60945, ANSI C63.4, MP5-1986, CAN/CSA-CEI/IEC CISPR 11-04, CAN/CSA-CISPR 22-10	A.
<b>EMC. E.04</b>	Electric and electronic equipment	Conducted Emissions, Voltage method (Voltage probe)  9 KHz - 30 MHz	EN 55011 (CISPR 11), EN 55013 (CISPR 13), EN 55014-1 (CISPR 14-1), EN 55015 (CISPR 15), EN 55016-1-2 (CISPR 16-1-2), EN 55016-2-1 (CISPR 16-2-1), EN 55022 (CISPR 22), EN 55032 (CISPR 32), ANSI C63.4, MP5-1986, CAN/CSA-CEI/IEC CISPR 11-04, CAN/CSA-CISPR 22-10	A.
<b>EMC. E.05</b>	Electric and electronic equipment	Conducted Emissions, Current method (Current probe)  100 KHz - 250 MHz	EN 55011 (CISPR 11), EN 55013 (CISPR 13), EN 55014-1 (CISPR 14-1), EN 55015 (CISPR 15), EN 55016-1-2 (CISPR 16-1-2), EN 55016-2-1 (CISPR 16-2-1), EN 55022 (CISPR 22), EN 55025 (CISPR 25), EN 55032 (CISPR 32)	A.
<b>EMC. E.06</b>	Electric and electronic equipment	Conducted Emissions, Power disturbance method (Absorbing clamp)  30 MHz - 1000 MHz	EN 55013 (CISPR 13), EN 55014-1 (CISPR 14-1), EN 55016-1-3 (CISPR 16-1-3), EN 55016-2-2 (CISPR 16-2-2), EN 55032 (CISPR 32)	A.

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<b>EMC. E.09</b>	Electric and electronic equipment	Conducted Emissions, Discontinuous disturbance  9 KHz - 30 MHz	EN 55014-1 (CISPR 14-1)	A.
<b>EMC. E.15</b>	Electric and electronic equipment	Radiated Emissions Semi Anechoic Chamber Method (SACM)  150 KHz - 40 GHz	EN 55011 (CISPR 11), EN 55012 (CISPR 12), EN 55013 (CISPR 13), EN 55014-1 (CISPR 14-1), EN 55015 (CISPR 15), EN 55016-1-4 (CISPR 16-1-4), EN 55016-2-3 (CISPR 16-2-3), EN 55022 (CISPR 22), EN 55025 (CISPR 25), EN 55032 (CISPR 32), EN/IEC 60945; FCC Part 15, FCC Part 18, ANSI C63.4, MP5-1986, CAN/CSA-CEI/IEC CISPR 11-04, CAN/CSA-CISPR 22-10	A.
<b>EMC. E.16</b>	Electric and electronic equipment	Radiated Emissions Open Area Test Site (OATS) 150 KHz - 1 GHz	EN 55011 (CISPR 11), EN 55012 (CISPR 12), EN 55013 (CISPR 13), EN 55014-1 (CISPR 14-1), EN 55015 (CISPR 15), EN 55016-1-4 (CISPR 16-1-4), EN 55016-2-3 (CISPR 16-2-3), EN 55022 (CISPR 22), EN 55025 (CISPR 25), EN 55032 (CISPR 32), EN/IEC 60945; CFR 47 FCC Part 15, CFR 47 FCC Part 18, ANSI C63.4, MP5-1986, CAN/CSA-CEI/IEC CISPR 11-04, CAN/CSA-CISPR 22-10	A.
<b>EMC. E.18</b>	Electric and electronic equipment	Radiated Emissions, Large Loop Antenna System (LLAS)  9 KHz - 30 MHz	EN 55011 (CISPR 11), EN 55015 (CISPR 15), EN 55016-1-4 (CISPR 16-1-4), EN 55016-2-3 (CISPR 16-2-3)	A.
<b>EMC. E.20</b>	Electric and electronic equipment	Radiated Emissions, 60 cm loop method  9 KHz - 30 MHz	EN 55011 (CISPR 11), EN 55016-1-4 (CISPR 16-1-4), EN 55016-2-3 (CISPR 16-2-3), EN/IEC 60945 CFR 47 FCC Part 15, CFR 47 FCC Part 18, ANSI C63.4, MP5-1986, CAN/CSA-CEI/IEC CISPR 11-04	A.
<b>EMC. E.22</b>	Electric and electronic equipment	Radiated Emissions, Magnetic field  2 kHz – 185 kHz	EN/IEC 61851-21-2 (Annex B)	A.



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<b>EMC. E.26</b>	Electric and electronic equipment	Harmonic Current Emissions, (Up to and including 16A per phase)  1 and 3 phase	EN/IEC 61000-3-2	A.
<b>EMC. E.27</b>	Electric and electronic equipment	Voltage changes, voltage fluctuations and flicker Emissions, (Up to and including 16A per phase)  1 and 3 phase 50/60 Hz	EN/IEC 61000-3-3	A.
<b>EMC. E.28</b>	Electric and electronic equipment	Magnetic effect Emissions, Compass safe distance  DC	EN/IEC 60945, EN ISO 694	A.
<b>EMC. E.29</b>	Electric and electronic equipment	Harmonic Current Emissions, (> 16A per phase)  1 and 3 phase	EN/IEC 61000-3-12	A.
<b>EMC. E.30</b>	Electric and electronic equipment	Voltage changes, voltage fluctuations and flicker Emissions (> 16A per phase)  1 and 3 phase 50/60 Hz	EN/IEC 61000-3-11	A.
<b>EMC. E.31</b>	Electric and electronic equipment	Pulse emission for ESA's along supply lines 12V and 24V	ISO 7637-1, ISO 7637-2	A.
<b>EMC. E.33</b>	Electric and electronic equipment	Radio disturbances (ALSE method)  150 kHz – 2500 MHz	EN 55025 (CISPR 25)	A.
<b>EMC. E.34</b>	Electric and electronic equipment	Conducted Emissions, Voltage method (AAN method)  150 KHz - 30 MHz	EN 55013 (CISPR 13), EN 55014-1 (CISPR 14-1), EN 55015 (CISPR 15), EN 55016-1-2 (CISPR 16-1-2), EN 55016-2-1 (CISPR 16-2-1), EN 55022 (CISPR 22), EN 55032 (CISPR 32)	A.

### Electromagnetic Compatibility Immunity/Susceptability (EMI)

Code	Test object or product	Type of test	Method / Reference documents	
<b>EMC. I.01</b>	Electric and electronic equipment	Conducted RF Immunity, Electromagnetic,  up to 30 Vrms 150 KHz to 230 MHz	EN/IEC 61000-4-6	A.

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No.	Material or product	Type of activity <sup>1</sup>	Internal reference number	Location
<b>EMC. I.02</b>	Electric and electronic equipment	Conducted RF Immunity Bulk Current Injection method  up to 200 mA, 1 MHz – 400 MHz	ISO 11451-1, ISO 11451-4, ISO 11452-1, ISO 11452-4	A.
<b>EMC. I.03</b>	Electric and electronic equipment	Harmonics and interharmonics including mains signaling at a.c. power port, low frequency immunity  16.5 Hz – 3000 Hz	EN/IEC 61000-4-13, EN/IEC 61000-2-2	A.
<b>EMC. I.08</b>	Electric and electronic equipment	Immunity to conducted disturbances, Common mode  DC - 150 KHz up to 30 V DC, 16 <sup>2/3</sup> , 50, 60 Hz Continuous: up to 30 V Short duration: up to 300 V	EN/IEC 61000-4-16	A.
<b>EMC. I.12</b>	Electric and electronic equipment	Radiated immunity Electric field  380 – 6000 MHz up to 600 V/m	EN IEC 61000-4-39	A
<b>EMC. I.13</b>	Electric and electronic equipment	Radiated immunity Magnetic field  9 kHz – 150 kHz up to 100 A/m 150 kHz – 26 MHz up to 30 A/m	EN IEC 61000-4-39	A
<b>EMC. I.21</b>	Electric and electronic equipment	Electrostatic discharge Immunity (ESD)  Contact discharge: up to 15 kV, Air discharge: up to 30 kV	EN/IEC 61000-4-2, ISO 10605	A.
<b>EMC. I.22</b>	Electric and electronic equipment	Electrical fast transient / burst Immunity (EFT),  1 and 3 phase 0,25 kV - 4 kV	EN/IEC 61000-4-4	A.
<b>EMC. I.23</b>	Electric and electronic equipment	Surge Immunity,  1-phase up to 10,0 kV 3-phase up to 4,0 kV	EN/IEC 61000-4-5	A.
<b>EMC. I.24</b>	Electric and electronic equipment	Power frequency magnetic field Immunity  50/60 Hz 1 – 1500 A/m	EN/IEC 61000-4-8	A.
<b>EMC. I.25</b>	Electric and electronic equipment	Pulsed magnetic field Immunity  1 - 5000 A/m	EN/IEC 61000-4-9	A.

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<b>EMC. I.26</b>	Electric and electronic equipment	Voltage dips, short interruptions and voltage variations Immunity 1 and 3 phase 0 - 360 Angle(s)	EN/IEC 61000-4-11, EN/IEC 61000-4-34	A.
<b>EMC. I.27</b>	Electric and electronic equipment	Electric transient transmission via lines other than supply lines Immunity 600 V RF (fixed)	ISO 7637-1, ISO 7637-3	A.
<b>EMC. I.30</b>	Electric and electronic equipment	DC voltage ripple Immunity 16,5 Hz – 1000 Hz	EN/IEC 61000-4-17	A.
<b>EMC. I.32</b>	Electric and electronic equipment	Supply frequency variations Immunity 16,5 Hz- 400 Hz	EN/IEC 61000-4-28	A.
<b>EMC. I.36</b>	Electric and electronic equipment	Ring wave immunity test 1 and 3 phase up to 4 kV	EN/IEC 61000-4-12	A.
<b>EMC. I.37</b>	Electric and electronic equipment	DC Voltage dips, short interruptions and voltage variations Immunity 360 Vdc 40 A	EN/IEC 61000-4-29	A.
<b>EMC. I.39</b>	Electric and electronic equipment	Electric transient transmission along supply lines Immunity	ISO 7637-1, ISO 7637-2	A.
<b>EMC. I.41</b>	Electric and electronic equipment	Radiated Immunity, Semi Anechoic Chamber method 20 MHz to 150 MHz up to 30 V/m 150 MHz to 6 GHz up to 200 V/m	EN/IEC 61000-4-3, ISO 11451-1, ISO 11451-2, ISO 11452-1, ISO 11452-2	A.
<b>EMC. I.43</b>	Electric and electronic equipment	Radiated Radio Frequency Susceptibility Open Area Test Site (OATS) 20 MHz to 6 GHz up to 30 V/m	ISO 11451-1, ISO 11451-2, ISO 11452-1, ISO 11452-2	A.
<b>EMC. I.46</b>	Electric and electronic equipment	Unbalance, immunity test 1 and 3 phase 50/60 Hz $U_N \pm 50\%$ $0^\circ, 120^\circ \text{ and } 240^\circ \pm 30^\circ$	EN/IEC 61000-4-27	A.

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<b>EMC. I.47</b>	Electric and electronic equipment	Voltage fluctuation immunity test  1 and 3 phase 50/60 Hz $\Delta U = \pm 12 \% U_n$	EN/IEC 61000-4-14	A.
<b>EMC. I.48</b>	Electric and electronic equipment	An objective light flickermeter and voltage fluctuation immunity test  1 and 3 phase 50/60 Hz 39 – 4800 cpm	IEC/TR 61547-1	A.

**Electromagnetic Compatibility (EMC) - Electromagnetic Fields (EMC.F)**

Code	Test object or product	Type of test	Method / Reference documents	
<b>EMC. F.01</b>	Electric and electronic equipment	Magnetic flux density  20 KHz – 300 MHz	EN/IEC 62493	A.
<b>EMC. F.01</b>	Electric and electronic equipment	Magnetic flux density  0 – 400 KHz	EN/IEC 62233	A.

**Product standards containing one or more of the above mentioned test activities are listed below.  
 Accreditation is only applicable to the tests mentioned above.**

**Electromagnetic Compatibility (EMC) scheme (EMC.S)**

<b>EMC. S.02</b>	Automotive EMC tests	EMC.E.01; EMC.E.02; EMC.E.03; EMC.E.04; EMC.E.05; EMC.E.15; EMC.E.16; EMC.E.26; EMC.E.27; EMC.E.29; EMC.E.30; EMC.E.31; EMC.E.33; EMC.E.34;  EMC.I.02; EMC.I.22; EMC.I.23; EMC.I.39; EMC.I.41; EMC.I.43	UN ECE Regulation 10, 2004/104/EC, EN 55012 (CISPR 12), EN 55025 (CISPR 25), EN 50498, EN 12895,  ISO/EN 14982 (Machinery)	A.
<b>EMC. S.03</b>	Electrical and electronic equipment EMC tests	EMC.E.01; EMC.E.02; EMC.E.03; EMC.E.04; EMC.E.05; EMC.E.06; EMC.E.09; EMC.E.15; EMC.E.16; EMC.E.18; EMC.E.20; ; EMC.E.22; EMC.E.26; EMC.E.27; EMC.E.28; EMC.E.29; EMC.E.30; EMC.E.31; EMC.E.33; EMC.E.34  EMC.I.01; EMC.I.02; EMC.I.03; EMC.I.08; EMC.I.12; EMC.I.13; EMC.I.21; EMC.I.22; EMC.I.23; EMC.I.24; EMC.I.25; EMC.I.26; EMC.I.27; EMC.I.30; EMC.I.32; EMC.I.36; EMC.I.37; EMC.I.39; EMC.I.41; EMC.I.43; EMC.I.46; EMC.I.47; EMC.I.48	EN 55014-1, CISPR 14-1, EN 55014-2, CISPR 14-2, EN/IEC 60945 (EMC requirements), EN/IEC 61000-6-1, EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN/IEC 61000-6-4, EN/IEC 61000-6-8, EN 50121-1, EN 50121-2, EN 50132-3-1, EN 50121-3-2, EN 50121-4, EN 50121-5,	A.

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			EN/IEC 61204-3, EN 50293, EN 55015 (CISPR 15), IEC/TR 61547-1 EN 55022 (CISPR 22), EN 55024 (CISPR 24), EN 55032 (CISPR 32), EN 55035 (CISPR 35), EN 55013 (CISPR 13), EN 55020 (CISPR 20), EN/IEC 60601-1-2, EN/IEC 60601-2-X, EN/IEC 60730-1, EN/IEC 60730-2-X (EMC requirements), EN/IEC 62040-2, EN/IEC 61326-1, EN/IEC 61326-2-X, EN/IEC 60947-X (EMC requirements),  EN 50130-4, EN 301 489-1, EN 301 489-3, EN 301 489-17, EN 301 489-19, EN 301 489-52, EN 301 489-4, EN 301 489-5, EN 301 489-6, EN 301 489-9, EN 301 489-12, EN 301 489-13, EN 301 489-15, EN 301 489-20, EN 301 489-22, EN 301 489-27,	

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			EN 301 489-28, EN 301 489-29, EN 301 489-31, EN 301 489-33, EN 301 489-35, EN 301 489-50, EN 301 489-51, EN 301 489-53, EN 301 489-54 EN 50428, EN/IEC 60669-2-X, EN 50270, EN 15194 (EMC requirements), EN/IEC 61000-6-7, EN/IEC 61326-3-1, EN 50491-5-1, EN 50491-5-2, EN 50491-5-3, EN/IEC 63044-5-1, EN/IEC 63044-5-2, EN/IEC 63044-5-3 EN/IEC 61851-22, EN/IEC 61851-21-2  Lloyds Regulations (Germanischer Lloyds, DNV-GL, Lloyd's Registers, Bureau Veritas, IACS E10), EMC requirements	
<b>EMC. S.05</b>	FCC (Federal Communications Commission) EMC tests	EMC.E.02; EMC.E.03; EMC.E.04; EMC.E.15; EMC.E.16	CFR 47 FCC Part 15,  CFR 47 FCC Part 18	A.
<b>EMC. S.07</b>	ISED EMC tests	EMC.E.02; EMC.E.03; EMC.E.04; EMC.E.15; EMC.E.16	ICES-001, ICES-003 RSS-216	A.

#### Radio Product Standards

	Material or product	Internal reference number	Method / Reference documents	
a.	Short range devices; Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz	Test numbers 41, 42, 45, 60, 65, 66, 67, 68 and 69	ETSI EN 300 330	A.

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b.	Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN	Test numbers 41, 42, 43, 44, 45, 46, 48, 60, 62, 63, 64, 71, 80, 81 and 82	ETSI EN 301 893	A.
c.	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz;	Test numbers 42 up to and including 60	ETSI EN 300 220-1, ETSI EN 300 220-2	A.
d.	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band;	Test numbers 42, 43, 44, 45, 46, 48, 53, 60, 61, 62 and 63	ETSI EN 300 328	A.
e.	Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range;	Test numbers 41, 42, 43, 45, 46, 60, 69 and 70.	ETSI EN 300 440	A.
f.	Global System for Mobile communications (GSM); Mobile Stations (MS) equipment;	Test number 42	ETSI EN 301 511	A.
g.	IMT cellular networks;	Test number 42	ETSI EN 301 908-1	A.

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h.	Electrical and Electronic Equipment (Including: (Fire) Alarm systems, Telecommunication Terminal Equipment, Maritime Communication and Navigation Equipment and Radio Transmitters and Receivers)	Test numbers 42, 43, 44, 45, 47, 53, 72, 73, 74, 75, 76, 78, 80 and 81.	CFR 47 FCC, Part 15, Subpart C, 15.209, 15.225, 15.231, 15.247, CFR 47 FCC, Part 15, Subpart E 15.407  ISED RSS-Gen, 210, 247  (Using ANSI C63.10-2013 and KDB 558074 D01, 662911 D01, 789033 D02, KDB 905462 D02)	A.
	Unintentional Radiators (FCC Part 15, Subpart B)	EMC.E.02; EMC.E.03; EMC.E.04; EMC.E.15; EMC.E.16	ANSI C63.4-2014	A.
	Industrial, Scientific, and Medical Equipment (FCC Part 18) • Consumer ISM equipment	EMC.E.02; EMC.E.03; EMC.E.04; EMC.E.15; EMC.E.16	FCC MP-5 (February 1986)	A.
	Intentional Radiators (FCC Part 15 Subpart C)	Test numbers 42, 43, 44, 45, 47, 53, 72, 73, 74, 75, 76, 78, 80 and 81.	ANSI C63.10-2013	A.
	U-NII without DFS Intentional Radiators (FCC Part 15, Subpart E) • Unlicensed National Information Infrastructure Devices (U-NII without DFS)	Test numbers 42, 43, 44, 45, 47, 53, 72, 73, 74, 75, 76, 78, 80 and 81.	ANSI C63.10-2013 (KDB Publication 789033)	A.
	U-NII with DFS Intentional Radiators (FCC Part 15 Subpart E) • Unlicensed National Information Infrastructure UNII) Devices with Dynamic Frequency Selection (DFS)	Test numbers 42, 43, 44, 45, 47, 53, 72, 73, 74, 75, 76, 78, 80 and 81.	ANSI C63.10-2013 FCC KDB Publication 905462 D02 U-NII DFS Compliance Procedures New Rules v02 (April 8, 2016) (KDB Publication 789033)	A.



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	Commercial Mobile Services (FCC Licensed Radio Service Equipment) <ul style="list-style-type: none"> <li>• Part 22 (cellular)</li> <li>• Part 24</li> <li>• Part 25 (below 3 GHz)</li> <li>• Part 27</li> </ul>	Test numbers 42, 43, 45, 48, 75 and 77	ANSI/TIA-603-E-2016; ANSI C63.26-2015 (KDB Publication 971168)	A.
i.	Electrical and Electronic Equipment (Including: (Fire) Alarm systems, Telecommunication Terminal Equipment, Satellite equipments below 3GHz, Maritime Communication and Navigation Equipment and Radio Transmitters and Receivers)	Test numbers 42, 43, 45, 48, 75 and 77	CFR 47 FCC, Parts 22, 24, 25, 27  ISED RSS 130, 132-134, 139, 199,  (Using ANSI C63.26-2015. ANSI/TIA-603 E:2016 and KDB 971168 D01)	A.
j.	Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers	Test number 42, 60	ETSI EN 303 413	A
k.	Wireless power transmission systems	Test number 41,42,48,60 and 65,	ETSI EN 303 417	A

**The accreditation for the activities below is suitable for notification**

**European construction products regulation No 305/2011**

**System 3 Verification of Constancy of Performance**

**Product area 31:Power, control and communication cables**

Decision 2011/284/EC Power, control and communication cables	EN 50575:2014+A01:2016		
81	Power, control and	Flame spread test	EN 50399 <sup>2</sup>

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	communication cables <sup>2</sup>	Test for vertical flame propagation	EN 60332-1-2 <sup>2</sup>	
		Determination of acidity (by pH measurement) and conductivity	EN 60754-2 <sup>2</sup>	
		Reaction to fire classification (D) and (E)	EN 13501-6 <sup>2</sup>	

<sup>1</sup> Weather-beaten tests of synthetic lenses is subcontracted

<sup>2</sup> Use of facilities outside the test laboratory of the accredited organisation