Newsletter

January 2026

Digital & Product Solutions
Business Line **EMC & RF**

innovating safety & security

DEKRA Testing and Certification Co., Ltd. | Linkou (Taiwan) | 5 m Full Anechoic Chamber (FAC)

歐洲（EU-27 與英國）

無線電設備指令（RED）調和標準清單於 2025 年 12 月 9 日更新

調和標準清單近期已更新。下列表格重點整理主要更新內容。

測試標準更新：

Test Standard	Title	Comments
EN 300 220-2 V3.3.1	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz with power levels ranging up to 500 mW e.r.p. Part 2: Harmonised Standard for access to radio spectrum for non specific radio equipment	Supersedes V3.1.1. Transition period up to 2027-06-11. New version includes the following updates: - Removal of receiver category 3. Minimum receiver category for compliance to Directive 2014/53/EU article 3.2 is set to category 2. - Equipment transmitting analog voice are no more excluded from the scope. - Addition of receiver parameters according to ETSI guide ETSI EG 203 336 V1.2.1. - Addition of tests for timing compliance of equipment using polite spectrum access. - Addition of temperature range categories for extreme temperature tests. - Separation of OBW requirement from frequency stability (drift) clauses.

Test Standard	Title	Comments
EN 302 729-1 V3.1.1	Short Range Devices (SRD) using Ultra Wide Band technology (UWB) Part 1: Level Probing Radar (LPR) equipment operating in the frequency ranges 6 GHz to 8,5 GHz, 24,05 GHz to 26,5 GHz, 57 GHz to 64 GHz, 75 GHz to 85 GHz for strictly vertical downward installation	Supersedes EN 302 729 V2.1.1 V2.1.1. Transition period up to 2027-06-11. New version includes the following updates: - EN 302 729 standard has been divided in multiple parts. Part 1 includes LPR equipment with strictly vertical downward installation. - Clear categorization of EUTs covered by the standard. - EUTs exhibiting a receive only mode or a standby mode have been removed from the scope of the standard. - Addition of a TX-requirement over the complete environmental profile. - Introduction of the new UWB emission concept as described in EN 303 883-1 V2.1.1 - Clause 5.1.2. - Clarification to assess the mean e.i.r.p. spectral density according to EN 303 883-1 - Clause 5.3.2.4 over 1 ms. - All manufacturer declarations have been removed.
EN 302 480 V3.1.1	Mobile Communication On Board Aircraft (MCOBA) systems	Supersedes V2.2.1. Transition period up to 2027-06-11. New version includes the following updates: - Include 5G NR in the scope. - Change Network Control Unit (NCU) requirements.
EN 303 659 V1.1.1	Short Range Devices (SRD) in Data Networks Radio equipment to be used in the frequency ranges 865 MHz to 868 MHz and 915 MHz to 919,4 MHz	New standard harmonised.

Test Standard	Title	Comments
EN 305 550-6 V1.2.1	Short Range Devices (SRD) to be used in the 40 GHz to 260 GHz frequency range Part 6: Specific radiodetermination applications - Tank Level Probing Radar (TLPR) and Level Probing Radar (LPR) equipment operating in the frequency ranges 116 GHz to 148,5 GHz; 167 GHz to 182 GHz and 231,5 GHz to 250 GHz	New standard harmonised.

補充資訊：

- Amendment of 9 December 2025 to Implementing Decision (EU) 2022/2191: https://eur-lex.europa.eu/eli/dec_impl/2025/2499/oj
- Consolidated Harmonised Standard List (PDF): https://webgate.ec.europa.eu/circabc-ewpp/d/d/workspace/SpacesStore/8e7cd43d-baab-4450-8f0c-7c9785e75f2c/download
- Consolidated Harmonised Standard List (XLS): https://single-market-economy.ec.europa.eu/document/download/1b07bf21-0158-466f-9865-2fcba3bf67d6_en?filename=SummaryListForLegislation_generated%2013.10.2025.xlsx

ETSI RED 工作計畫 — 新標準版本更新

ETSI 持續推動 EMC/RF 測試標準發展。下列表格彙整 2025 年第四季常見測試標準之最新更新。

Test Standard	Title	Comments
EN 300 328 V3.0.1_0.0.5	Wideband data transmission systems Radiocommunication equipment operating in the 2 400 MHz to 2 483,5 MHz band	Early Draft. Test Standard development work is just starting.
Draft EN 300 422-1 V2.3.1_0.0.7	Wireless Microphones Audio PMSE up to 3 GHz Part 1: Audio PMSE Equipment up to 3 GHz	Stable Draft. Test Standard development work is progressing.

Test Standard	Title	Comments
EN 300 440-2 V3.1.1	Short Range Devices (SRD) operating in 1 GHz to 40 GHz Part 2: Radiodetermination equipment for location tracking applications operating in the frequency range 2,4 GHz to 2,4835 GHz	Already published by ETSI and delivered to European Commission for final assessment. Waiting for its publication as Harmonised Standard in OJEU. New version includes the following updates: - Split EN 300 440 into 3 application specific parts: Communication, Radiodetermination location tracking, Intrusion radiodetermination. - Remove GBSAR and RFID 2.4 GHz because they will be included in another specific standard. - Testing methodology standardized to use EN 303 883-1 and EN 303 883-2 for transmitter and receiver.
Draft EN 301 406-2 V3.1.3	Digital Enhanced Cordless Telecommunications (DECT) Part 2: DECT-2020 NR	Stable Draft. Test Standard development work is progressing.
EN 301 908-13 V13.4.0	IMT cellular networks Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	Approved by Technical Body. Under ETSI Deliverable approval process. Once it is completed, the final assessment form European Commission is required.
Draft EN 301 908-24 V17.1.1_0.0.5	IMT cellular networks Part 24: New Radio (NR) Base Stations (BS)	Early Draft. Test Standard development work is progressing.
Draft ETSI EN 304 122 V1.1.1_0.1.1	Satellite Earth Stations & Systems (SES) NR-NTN (New Radio Non-Terrestrial Networks) capable User Equipment operating in Frequency bands below 7,125 GHz	Early Draft. Test Standard development work is progressing. New standard for 5G NTN for bands FDD n250, FDD n251, FDD n253, FDD n254, FDD n255 and FDD n256.

Test Standard	Title	Comments
Draft EN 302 194-1 V2.0.0	Navigational radars used on inland waterways Part 1: Magnetron Radars	Approved by Technical Body. Under ETSI Deliverable approval process. Once it is completed, the final assessment form European Commission is required.
Draft EN 302 208 V3.5.1_0.0.5	Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W and in the band 915 MHz to 921 MHz with power levels up to 4 W	Stable Draft. European Commission first assessment completed and currently addressing the comments
Draft EN 302 326-2 V2.2.0	Fixed Radio Systems Multipoint Equipment and Antennas	Approved by Technical Body. Under ETSI Deliverable approval process. Once it is completed, the final assessment form European Commission is required.
Draft EN 302 195 V2.1.8	Short Range Devices (SRD) Ultra Low Power Active Medical Implants (ULP-AMI) and their associated peripherals (ULP-AMI-P) operating in the frequency range 9 kHz to 315 kHz	Stable Draft. Test Standard development work is progressing.
Draft EN 304 118 V1.1.1_0.0.4	Medical Implantable Wireless Power Transmission (WPT) equipment	Stable Draft. Test Standard development work is progressing.
Draft EN 302 571 V2.1.1_0.0.30	Intelligent Transport Systems (ITS) Radiocommunications equipment operating in the 5 855 MHz to 5 925 MHz frequency band	Stable Draft. European Commission first assessment completed and currently addressing the comments
Draft EN 302 686 V0.0.13	Intelligent Transport Systems (ITS) Radiocommunications equipment operating in the 63,72 GHz – 65,88 GHz frequency band	Stable Draft. European Commission first assessment completed. Approved by Working Group. Under European Commission second assessment.
Draft EN 302 858 V3.1.1_0.0.4	Short Range Devices; Transport and Traffic Telematics (TTT) Radar equipment operating in the 24,05 GHz to 24,25 GHz range	Early Draft. Test Standard development work is just starting.

Test Standard	Title	Comments
Draft EN 303 867 V0.0.5	Rail telecommunications (RT) Urban rail radiocommunications equipment operating in the 5 875 MHz to 5 935 MHz frequency band	Early Draft. Test Standard development work is progressing.
Draft EN 302 065-2-5 V1.1.1_0.1.6	Short Range Devices (SRD) using Ultra Wide Band technology (UWB) Part 2: Ultra Wide Band location tracking devices Sub-part 5: Requirements for enhanced indoor devices within 6,0 GHz to 8,5 GHz	Approved by Technical Body. Under ETSI Deliverable approval process. Once it is completed, the final assessment form European Commission is required.
Draft EN 302 065-3-2 V3.1.1_0.0.3	Short Range Devices (SRD) using Ultra Wide Band technology (UWB) Part 3: UWB devices installed in motor and railway vehicles Sub-part 2: Requirements for location tracking devices installed in rail and road vehicles operating in the frequency range of 6,0 GHz to 8,5 GHz with duty cycles up to 5% per second	Early Draft. Test Standard development work is just starting.
EN 302 065-3-3 V3.1.0	Short Range Devices (SRD) using Ultra Wide Band technology (UWB) Part 3: UWB devices installed in motor and railway vehicles Sub-part 3: Requirements for UWB radiodetermination applications operating within 6,0 GHz to 8,5 GHz	Already published by ETSI and to be delivered to European Commission for final assessment.
Draft EN 302 065-4-2 V1.1.1_0.0.1	Short Range Devices (SRD) using Ultra Wide Band technology (UWB) Part 4: Material Sensing devices Sub-part 2: Liquid and Gas Analyzer operating within 30 MHz to 10,6 GHz	Early Draft. Test Standard development work is just starting.

Test Standard	Title	Comments
Draft EN 302 729-2 V3.0.0_0.1.7	Short Range Devices (SRD) using Ultra Wide Band technology (UWB) Part 2: Level Probing Radar (LPR) equipment operating in the frequency range 75 GHz to 85 GHz for tilted downward installation	Draft. Addressing comments received during ETSI Deliverable approval process. Once it is completed, the final assessment form European Commission is required.
Draft EN 303 940-1 V1.1.1_0.1.4	Short Range Devices (SRD) using Ultra Wide Band technology (UWB) Part 1: Millimeter Wave Security Scanners operating in 69,8-80,5 GHz	Approved by Technical Body. Under ETSI Deliverable approval process. Once it is completed, the final assessment form European Commission is required.
Draft EN 305 550-3 V1.1.1_0.0.16	Short Range Devices (SRD) to be used in the 40 GHz to 260 GHz frequency range Part 3: Radiodetermination devices for fixed, mobile and portable generic applications within 57 GHz to 64 GHz	Early Draft. Test Standard development work is progressing.
Draft EN 305 550-4 V1.1.1_0.0.5	Short Range Devices (SRD) to be used in the 40 GHz to 260 GHz frequency range Part 4: Radiodetermination equipment for vehicular applications operating within 57 GHz to 64 GHz	Early Draft. Test Standard development work is progressing.
Draft EN 305 550-7 V1.1.1_0.0.1	Short Range Devices (SRD) to be used in the 40 GHz to 260 GHz frequency range Part 7: in-cabin radiodetermination devices in vehicles within 122,25 GHz to 130 GHz and 134 GHz to 148,5 GHz	Early Draft. Test Standard development work is just starting.
Draft EN 305 550-8 V1.1.1_0.0.2	Short Range Devices (SRD) to be used in the 40 GHz to 260 GHz frequency range Part 8: exterior radiodetermination devices on vehicles within 122,25 GHz to 130 GHz and 134 GHz to 148,5 GHz	Early Draft. Test Standard development work is just starting.

Test Standard	Title	Comments
Draft EN 301 489-9 V2.2.1_0.0.9	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio, in-ear monitoring and assistive listening devices	Stable Draft. European Commission first assessment completed and currently addressing the comments
EN 301 489-13 V2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 13: Specific conditions for Citizens' Band (CB) radio and ancillary equipment	Already published by ETSI and delivered to European Commission for final assessment. Waiting for its publication as Harmonised Standard in OJEU. New version includes the following updates: - Extend radiated immunity requirement up to 6 GHz. - Equipment with integral antenna or non-integral antenna are treated the same in respect of EMC requirements.
EN 301 489-50 V2.4.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment	Already published by ETSI and delivered to European Commission for final assessment. Waiting for its publication as Harmonised Standard in OJEU. New version includes the following updates: - Remove Harmonics and Voltage fluctuation requirements. - Add NR with in-band NB-IoT. - Add operating conditions for ESD test on OTA radio. Provide guidance for selection of RATs to be tested for MSR BS.

Test Standard	Title	Comments
EN 301 489-55 V1.0.0	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 55: Specific conditions for ground based equipment for air navigation operating in the frequency range 960 MHz to 1 215 MHz	Already published by ETSI and to be delivered to European Commission for final assessment.
Draft EN 301 843-1 V2.3.0	ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services Part 1: Common technical requirements	Approved by Technical Body. Under ETSI Deliverable approval process.
Draft EN 301 843-2 V2.2.2	ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services Part 2: Specific conditions for VHF radiotelephone transmitters and receivers operating in the frequency range 156 MHz to 174 MHz	Approved by Technical Body. Under ETSI Deliverable approval process. Once it is completed, the final assessment form European Commission is required.
Draft EN 301 843-8 V1.0.0	ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services Part 8: Specific conditions for radio beacons and locating devices	Approved by Technical Body. Under ETSI Deliverable approval process. Once it is completed, the final assessment form European Commission is required.
EN 300 386 V3.2.1	Telecommunication network equipment Harmonised Standard for ElectroMagnetic Compatibility (EMC) requirements	Already published by ETSI and delivered to European Commission for final assessment. Waiting for its publication as Harmonised Standard in OJEU. New version includes an informative Annex to justify the exclusion of 3 m cable.

關於短距離裝置（SRD）使用之 ERC Recommendation 70-03 於 2025 年 10 月 17 日更新

依據 ERC Rec 70-03 之定期更新，附件 12（主動式醫療植入裝置及其相關周邊設備）已更新如下：

Frequency Band		Power	Mitigation Req	Mod/OBW	ETSI EN	Notes
d1	401-402 MHz	25 µW e.r.p.	As specified in ETSI EN or equivalent	≤ 100 kHz	EN 302 537	Band d split into d1, d2 and d3.
d2	402-405 MHz	25 µW e.r.p.	As specified in ETSI EN or equivalent	≤ 300 kHz	EN 301 839	Band d split into d1, d2 and d3.
d3	405-406 MHz	25 µW e.r.p.	As specified in ETSI EN or equivalent	≤ 100 kHz	EN 302 537	Band d split into d1, d2 and d3.

補充資訊：

- ERC Recommendation 70-03: https://docdb.cept.org/document/845

無線電設備指令符合性協會（REDCA）技術指引文件（TGN）#30（RED NB 風險評估指南於 2025 年 10 月更新）

新版大幅擴充 TGN 30 範圍，納入新的法規面向，與最新 RED 授權法規保持一致，並重新調整架構，涵蓋資安及共通充電器要求（該要求於 2022 年 5 月版本中尚未納入）。

新版風險評估範圍納入以下新法規：

- **歐盟委員會授權規例（2019/320）:** 根據第 3.3（g）條，智慧型手機可獲得緊急服務。
- **歐盟委員會委託規例 2022/30:** 網路安全要求依據第 3.3（d）、3.3（e）及 3.3（f）條規定。
- **歐盟指令 2022/2380 及歐盟指令長 2023/1717:** 根據第 3.4 條，常見的電池充電器需求。

新版強化以下評估重點：

- 設備之預期用途。
- 使用環境：室內 / 室外、車用及高海拔環境。
- 使用族群：專業用戶 / 一般消費者、安裝人員、弱勢族群等。
- 多無線電與多功能設備：同時運作、交互干擾、接收機保護等。
- 對調和標準之適用要求更加嚴謹：當缺少調和標準、未完全適用調和標準，或該標準於 OJEU 列示附有限制時，製造商必須說明所有偏離之合理性。

補充資訊：

- REDCA Technical Guidance Notes (TGNs): https://www.redca.eu/Pages/Documents1.htm

AdCo RED 發布 2024 年市場監督統計報告

AdCo RED 於 2025 年 10 月 5 日公布 2024 年度市場監督統計結果。 2024 年共有 12 個市場監督機關查驗 2,748 項無線電產品，其中約 1,489 項（54.18%）被發現不符合 RED 規定。主要不符合項目多與行政及技術文件相關（例如：使用手冊、符合性聲明、風險評估等）。

需特別說明，上述統計數據並不代表歐洲市場 RED 產品之整體符合率，因為多數市場監督機關係針對「高不符合率產業」進行查核。

Group	Devices Checked	Non-Compliance Rate	Comments
Administrative	3.333	1.474 (48,60%)	Main issues are related with: - Article 10.7: Manufacturer identification (29,75%) - Article 10.8: Instructions and safety information (38,08%) - Article 10.9: Declaration of Conformity (38,54%) - Articles 19 and 20: CE Marking in label (23,64%)
Technical Documentation	331	294 (88,82%)	Main issues are related with: - Risk Assessment (78,40%) - Annex V(i): Packaging information indicating restriction of use in different EU countries (60,86%) - Annex V(f): Copy of the EU-TEC and its annexes as delivered by the Notified Body, if applicable (77,01%) - Annex V(h): Test Reports (47,53%)
Essential Requirements	376	94 (25,00%)	Non-compliance rate detected for each essential requirement is: - Article 3.1.a: EMC (17,07%) - Article 3.1.b: Health & Safety (16,04%) - Article 3.2: RF (23,72%) - Article 3.3: Additional Requirements (0,00%)

補充資訊：

- AdCo RED report on market surveillance 2024: https://webgate.ec.europa.eu/circabc-ewpp/d/d/workspace/SpacesStore/3ee9f573-6dfa-4af7-8e70-a9e68dac1dfa/download

北美（美國與加拿大）

FCC KDBs 更新

2025 年第四季主要發布 / 更新之 KDB：

KDB	Status	Question	Comments
800303	New	What FCC guidance is available for manufacturers and test laboratories for radiated emission test procedures for devices operating above 95 GHz?	New KDB providing guidance for radiated emission measurements for devices operating above 95 GHz (mmW and sub-THz).
986446	Update	The FCC recently adopted FCC 22-84 on Protecting Against National Security Threats to the Communications Supply Chain through the Equipment Authorization Program. How does that affect the FCC equipment authorization process?	Provides additional guidance to TCBs to perform due diligence to validate the information provided in the designated U.S. agent for service of process certification.
940660	Draft	What procedures should be used to evaluate Citizens Broadband Radio Service (CBRS) for compliance under Part 96?	New document providing guidance on equipment authorization of Active and Passive Distributed Antenna Systems (DAS) devices under Part 96 CBRS.

FCC 強化國家安全防護，擴大限制至模組與無人機

2025 年 12 月 26 日，FCC 於設備授權計畫下實施更新規定，以強化對國家安全風險之防護。主要變更包括：

- 模組化發射器現已明確納入禁止授權覆蓋設備的規定範圍
- 包含模組化發射器且被歸類為受保護設備的主機裝置，將無法再取得 FCC 設備授權
- 對先前授權為受保護設備的設備，現已限制允許變更，限制了更新或修改此類設備的能力
- FCC 授權撤銷、撤銷或限制先前授權的受規範設備。FCC 可能會禁止繼續進口或行銷這些裝置

此外，FCC 於 2025 年 12 月 22 日更新 Covered List，將外國製造之無人機及其關鍵零組件納入。本次更新不影響 FCC 先前已授權設備型號之進口、銷售或使用。

補充資訊：

- FCC Updated Rules: https://www.govinfo.gov/content/pkg/FR-2025-11-25/pdf/2025-21001.pdf

- Covered List Update: https://docs.fcc.gov/public/attachments/DA-25-1086A1.pdf

ISED 更新

ISED 無線電標準於 2025 年第四季更新：

Test Standard	Status	Title	Comments
RSS-252 Issue 3	Update	Intelligent Transportation Systems' (ITS) On-Board Units (OBUs) in the 5895-5925 MHz Band	New standard version has a 6 months transition period. Main updates are: - Add channel allocation. - Clarify that transmitter power applies on a per-channel basis. - Modify the unwanted emission limits.
RSS-287 Issue 4	Draft	Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD)	Draft under Consultation in Radio Advisory Board of Canada. Main updates are: - Add open loop configuration for Digital Selective Calling (DSC). - Add references to documents for certifying Maritime Survivor Locator Devices with DSC. - Add Maritime Survivor Locator Devices requirements.
RSS-288 Issue 2	Draft	Global Maritime Distress and Safety System (GMDSS)	Draft under Consultation in Radio Advisory Board of Canada. Main updates are: - Add clarification on the frequencies of operation. - Remove the technical requirements for narrowband direct printing (NBDP) telegraphy.

ISED 於 2025 年第四季發布之主要公告：

Notice	Description	Comments

Notice 2025-DRS0007	Guidance on test reduction for specific absorption rate (SAR) assessment	Any device that has been tested at 5 mm or less for 1g body SAR, testing at 0 mm for 10g extremity / limb SAR becomes optional provided that all the following conditions are met: - The operating frequencies are below 6 GHz. - The same power levels and tune-up tolerances are applicable for the body and extremity / limb use-cases. Extremity / limb SAR test reduction is not applicable for hand exposure during next-to-head voice calls.
Notice 2025-DRS0008	Requirements on camera protrusion measurements for specific absorption rate compliance	ISED clarifies the requirements on specific absorption rate (SAR) assessment of devices with camera protrusions (a.k.a. camera bumps).

標準制定組織（SDO）

國際電工委員會（IEC）

2025 年第四季發布之主要 IEC EMC/RF 相關標準：

Publication	Scope
CISPR 16-1-4:2025 RLV	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements
CISPR TR 16-4-4:2025	Specification for radio disturbance and immunity measuring apparatus and methods - Part 4-4: The CISPR model for the calculation of limits for the protection of radio services
IEC 61000-4-30:2025	Electromagnetic compatibility (EMC) - Part 4-30: Testing and measurement techniques - Power quality measurement methods
IEC 60335-1:2020+AMD1:2025 CSV	Household and similar electrical appliances - Safety - Part 1: General requirements
IEC 60335-2-3:2022+AMD1:2025 CSV	Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons, ironing boards, ironing systems and similar appliances

Publication	Scope
IEC 60335-2-5:2025 CMV	Household and similar electrical appliances - Safety - Part 2-5: Particular requirements for dishwashers
IEC 60335-2-85:2022+AMD1:2025 CSV	Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers
IEC 60335-2-113:2025 CMV	Household and similar electrical appliances - Safety - Part 2-113: Particular requirements for beauty care appliances incorporating lasers and intense light sources
IEC 60335-2-116:2025 CMV	Household and similar electrical appliances - Safety - Part 2-116: Particular requirements for furniture with electrically motorized parts
IEC 60601-2-64:2025 RLV	Medical electrical equipment - Part 2-64: Particular requirements for the basic safety and essential performance of light ion beam medical electrical equipment
IEC 80601-2-89:2025	Medical electrical equipment - Part 2-89: Particular requirements for the basic safety and essential performance of medical beds for children
IEC 62841-3-16:2025 EXV	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-16: Particular requirements for transportable belt sanders, disc sanders and belt/disc sanders
IEC 62115:2017+AMD1:2025 CSV	Electric toys - Safety
IEC 60598-2-1:2025 EXV	Luminaires - Part 2-1: Particular requirements - Fixed general purpose luminaires
IEC 60364-7-712:2025	Low-voltage electrical installations - Part 7-712: Requirements for special installations or locations - Solar photovoltaic (PV) power supply installations
IEC 60730-2-12:2025	Automatic electrical controls - Part 2-12: Particular requirements for electrically operated door locks
IEC 60092-302-2:2025 RLV	Electrical installations in ships - Part 302-2: Low voltage switchgear and controlgear assemblies - Marine power
IEC 60092-352:2025 RLV	Electrical installations in ships - Part 352: Selection, installation, and operating conditions of cables

Publication	Scope
IEC 62271-208:2025	High-voltage switchgear and controlgear - Part 208: Methods to quantify the steady state, power-frequency electromagnetic fields generated by HV switchgear assemblies and HV/LV prefabricated substations, both for rated voltages above 1 kV and up to and including 52 kV
IEC 62153-4-7:2021+AMD1:2025 CSV	Metallic cables and other passive components test methods - Part 4-7: Electromagnetic compatibility (EMC) -Test method for measuring of transfer impedance ZT and screening attenuation aS or coupling attenuation aC of connectors and assemblies - Triaxial tube in tube method
IEC 60315-4:1997+AMD1:2025 CSV	Methods of measurement on radio receivers for various classes of emission - Part 4: Receivers for frequency-modulated sound broadcasting emissions
IEC 62037-2:2021+AMD1:2025 CSV	Passive RF and microwave devices, intermodulation level measurement - Part 2: Measurement of passive intermodulation in coaxial cable assemblies
IEC 62037-4:2012+AMD1:2025 CSV	Passive RF and microwave devices, intermodulation level measurement - Part 4: Measurement of passive intermodulation in coaxial cables
IEC 62037-6:2021+AMD1:2025 CSV	Passive RF and microwave devices, intermodulation level measurement - Part 6: Measurement of passive intermodulation in antennas
IEC PAS 61980-4:2025	Electric vehicle wireless power transfer (WPT) systems - Part 4: Interoperability and safety of high-power wireless power transfer (H-WPT) for electric vehicles
IEC TR 61169-1-8:2025	Radio-frequency connectors - Part 1-8: Electrical test methods - Voltage standing wave ratio for a single connector by double connector method

補充資訊：

- IEC Standards Search: https://webstore.iec.ch/en/products/

CEN-CENELEC

2025 年第四季發布之主要 CEN-CENELEC EMC/RF 相關標準：

Publication	Scope
EN 61000-4-27:2000/A2:2025	Electromagnetic compatibility (EMC) - Part 4-27: Testing and measurement techniques – Unbalance, immunity test for equipment with input current not exceeding 16 A per phase
EN IEC 61000-4-30:2025	Electromagnetic compatibility (EMC) - Part 4-30: Testing and measurement techniques - Power quality measurement methods
EN 61000-4-34:2007/A2:2025	Electromagnetic compatibility (EMC) - Part 4-34: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with mains current more than 16 A per phase
EN IEC 55016-1-4:2025	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements
EN 50413:2019/A1:2025	Basic standard on measurement and calculation procedures for human exposure to electric, magnetic and electromagnetic fields (0 Hz - 300 GHz)
EN 50566:2017/A2:2025	Product standard to demonstrate the compliance of wireless communication devices with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz: hand-held and body mounted devices in close proximity to the human body
EN 50736:2025	Railway application - Communication, signalling and processing system - Test requirements for signalling and telecommunication equipment
EN IEC 62840-2:2025	Electric vehicle battery swap system - Part 2: Safety requirements
EN IEC 60730-2-11:2025	Automatic electrical controls - Part 2-11: Particular requirements for energy regulators
EN IEC 60730-2-6:2025	Automatic electrical controls - Part 2-6: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements
EN IEC 61131-2:2025	Industrial-process measurement and control - Programmable controllers - Part 2: Equipment requirements and tests
EN IEC 62153-4-7:2021/A1:2025	Metallic cables and other passive components test methods - Part 4-7: Electromagnetic compatibility (EMC) -Test method for measuring of transfer impedance ZT and screening attenuation aS or coupling attenuation aC of connectors and assemblies - Triaxial tube in tube method

Publication	Scope
EN ISO 4064-1:2025	Water meters for cold potable water and hot water - Part 1: Metrological and technical requirements (ISO 4064-1:2024)
EN ISO 4064-2:2025	Water meters for cold potable water and hot water - Part 2: Test methods (ISO 4064-2:2024)

補充資訊：

- CEN-CENELEC Standards Search: https://standards.cencenelec.eu/dyn/www/f?p=CEN:105::RESET::::

國際標準化組織（ISO）

2025 年第四季發布之主要 ISO EMC/RF 相關標準：

Publication	Scope
ISO 80601-2-70:2025	Medical electrical equipment Part 2-70: Particular requirements for basic safety and essential performance of sleep apnoea breathing therapy equipment

補充資訊：

- ISO Standards Search: https://www.iso.org/advanced-search/x/

SAE International

2025 年第四季發布之主要 SAE EMC、汽車及航太相關標準：

Publication	Status	Scope
J3315_202510	Issued	LTE-V2X Requirements and Deployment Profile for Aftermarket V2X Devices
AS85049/104D	Revised	Connectors, accessories, composite, RFI/EMI, electrical, strain relief, 45°, self-locking, category 3C (for MIL-DTL-38999 series III and IV connectors)
AS81582/1B	Stabilized	Connectors, electric, bayonet, coupling, umbilical receptacle, jam nut mounting, RFI shielded, crimp contact, class E
AS81582/4B	Stabilized	Connector adapter, RFI shielded, cable to electric connector
AS81582/5B	Stabilized	Connector adapter, right angle, RFI shielded, electric connector to electric connector

補充資訊：

- SAE Standards: https://legacy.sae.org/standards

CTIA – The Wireless Association

2025 年第四季發布之主要 CTIA OTA 效能相關文件：

Publication	Scope
CTIA 01.01	Test Scope Requirements and Applicability v8.0.3 (December 2025)
CTIA 01.02	Operator Priority List v8.0.1 (December 2025)
CTIA 01.03	Normative Reporting Tables v8.0.3 (December 2025)
CTIA 01.20	Test Methodology, SISO, Anechoic Chamber v8.0.2 (December 2025)
CTIA 01.51	Wireless Technology, Location Based Technologies v8.0.3 (December 2025)
CTIA 01.70	Measurement Uncertainty v8.0.2 (December 2025)
CTIA 01.71	Device Setup and Positioning Guidelines v8.0.1 (December 2025)
Wi-Fi CWG	Test Plan for RF Performance Evaluation of Wi-Fi® Mobile Converged Devices v8.0.0 (December 2025)

補充資訊：

- CTIA Test Plans: https://ctiacertification.org/test-plans/