Newsletter

2025 Q2

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

DEKRA Korea Co., Ltd. | Yongin (South Korea) | 1m Automotive EMC Chamber

Europe (EU-27 and UK)

ETSI RED Workprogramme New Standard Versions Updates

ETSI is continuously evolving the EMC/RF Test Standards, table below summarizes the latest updates for most common Test Standards during Q1/2025:

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	Already published by ETSI and ready to be delivered to European Commission for final assessment. Waiting for its publication as Harmonised Standard in OJEU. New version includes the following updates with regard to v3.2.1: - Separation of OBW requirement from frequency stability (drift) clauses. - Clarifications in Spectrum mask at permitted frequency band edges. - Addition of receiver parameters according to ETSI guide EG 203336 v1.2.1. - Addition of tests for timing compliance of equipment using polite spectrum access.
Draft EN 300 328 V3.0.1_0.0.1	Wideband transmission systems Data transmission equipment operating in the 2,4 GHz to 2,4835 GHz band	Early Draft. Test Standard development work is just starting.
Draft EN 300 422-1 V2.3.1_0.0.4	Wireless Microphones Audio PMSE up to 3 GHz Part 1: Audio PMSE Equipment up to 3 GHz	Early Draft. Test Standard development work is just starting.
Draft EN 300 440-2 V3.1.1_0.1.3	Short Range Devices (SRD) Part 2: Radiodetermination equipment for location tracking applications operating in the frequency range 2,4 GHz to 2,4835 GHz	Stable Draft. European Commission first assessment completed and currently addressing the comments.
EN 300 487 V2.2.1	Satellite Earth Stations and Systems (SES) Receive-Only Mobile Earth Stations (ROMES) providing data communications operating in the 1,5 GHz frequency band	Already published by ETSI and delivered to European Commission for final assessment. Waiting for its publication as Harmonised Standard in OJEU. New version includes changes in receiver blocking characteristics requirement.
Draft EN 301 406-1 V3.1.20	Digital Enhanced Cordless Telecommunications (DECT) Part 1: DECT, DECT Evolution and DECT ULE	Stable Draft. Test Standard development work is progressing.

Draft EN 301 783 V0.0.14	Commercially available amateur radio equipment	Early Draft. Test Standard development work is progressing.
Draft EN 301 908-13 V13.4.1_0.0.3	IMT cellular networks Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	Early Draft. Test Standard development work is just starting.
EN 301 908-14 V17.1.1	IMT cellular networks Part 14: Evolved Universal Terrestrial Radio Access (E-UTRA) Base Stations (BS)	Already published by ETSI and delivered to European Commission for final assessment. Waiting for its publication as Harmonised Standard in OJEU.
EN 301 908-18 V17.1.1	IMT cellular networks Part 18: NR, E-UTRA, UTRA and GSM/EDGE Multi-Standard Radio (MSR) Base Station (BS)	Already published by ETSI and delivered to European Commission for final assessment. Waiting for its publication as Harmonised Standard in OJEU.
Draft EN 301 908-23 V17.1.1_0.0.1	IMT cellular networks Part 23: Active Antenna System (AAS) Base Station (BS)	Early Draft. Test Standard development work is just starting.
Draft EN 301 908-24 V17.1.1_0.0.2	IMT cellular networks Part 24: New Radio (NR) Base Stations (BS)	Early Draft. Test Standard development work is just starting.
Draft EN 301 908-26 V1.1.1_0.0.4	IMT cellular networks; Part 26: Aerial User Equipment (UE)	Early Draft. Test Standard development work is just starting.
Draft EN 301 908-27 V17.1.1_0.0.1	IMT cellular networks Part 27: New Radio (NR) Repeaters	Early Draft. Test Standard development work is just starting.
Draft EN 302 065-2-5 V1.1.1_0.1.0	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	Stable Draft. Test Standard development work is progressing.

EN 302 065-3-1 V3.2.1	Short Range Devices (SRD) using Ultra Wide Band technology (UWB) Part 3: UWB devices installed in motor and railway vehicles Sub-part 1: Requirements for UWB devices for vehicular access systems within 3,8 GHz to 4,2 GHz or 6 GHz to 8,5 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: - Scope has been limited to UWB devices for vehicular access systems within 3,8 GHz to 4,2 GHz or 6 GHz to 8,5 GHz. - Update receiver requirements and the related wanted technical performance. - Specify RX-requirements based on the signal interferer handling concept. - Clarification of conformance testing under the environmental profile specification.
Draft EN 302 065-3-3 V1.1.1_0.1.4	Short Range Devices (SRD) using Ultra Wide Band technology (UWB) Part 3: UWB devices installed in road and rail vehicles Sub-part 3: Requirements for UWB radiodetermination applications operating within 6,0 GHz to 8,5 GHz	Stable Draft. Test Standard development work is progressing.
EN 302 065-4-1 V2.2.1	Short Range Devices (SRD) using Ultra Wide Band technology (UWB) Part 4: Material Sensing devices Sub-part 1: Building material analysis below 10,6 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: - Add a measurement mode for Building Material Analysis (BMA) based on SRD regulation. - Specify RX-requirements based on the signal interferer handling concept. - Add TX-requirement over environmental profile.
Draft EN 302 065-4-4 V2.0.0	Short Range Devices (SRD) using Ultra Wide Band technology (UWB) Part 4: Material Sensing devices	Draft. Approved by Technical Body. Under ETSI Deliverable approval process. Once it is completed, the final assessment form European Commission is required.
Draft EN 302 372 V3.0.0	Short Range Devices (SRD) using Ultra Wide Band technology (UWB) Tank Level Probing Radar (TLPR) equipment operating in the frequency ranges 4,5 GHz to 7 GHz, 8,5 GHz to 10,6 GHz, 24,05 GHz to 27 GHz, 57 GHz to 64 GHz, 75 GHz to 85 GHz	Draft. Approved by Technical Body. Under ETSI Deliverable approval process. Once it is completed, the final assessment form European Commission is required.

Draft EN 302 729-2 V3.1.1_0.1.3	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	Stable Draft. Test Standard development work is progressing.
Draft EN 302 729-1 V3.1.0	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	Draft. Approved by Technical Body. Under ETSI Deliverable approval process. Once it is completed, the final assessment form European Commission is required.
Draft EN 303 940-1 V1.1.1_0.0.19	Short Range Devices (SRD) using Ultra Wide Band technology (UWB) Part 1: Millimeter Wave Security Scanners operating in 60-82 GHz	Early Draft. Test Standard development work is progressing.
Draft EN 302 571 V2.1.1_0.0.28	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 302 217-2 V3.4.1_0.0.10	Fixed Radio Systems Characteristics and requirements for point-to-point equipment and antennas Part 2: Digital systems operating in frequency bands from 1 GHz to 174,8 GHz	Draft. Approved by Technical Body. Under ETSI Deliverable approval process. Once it is completed, the final assessment form European Commission is required.
Draft EN 302 326-2 V2.2.1_0.0.8	Fixed Radio Systems Multipoint Equipment and Antennas Part 2: Harmonised Standard for access to radio spectrum	Stable Draft. European Commission first assessment completed and currently addressing the comments.
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	Already published by ETSI and to be delivered to European Commission for final assessment.
Draft EN 303 851 V1.0.0	Radio Frequency Identification Equipment operating in the band 2 446 MHz to 2 454 MHz with power levels up to a maximum of 500 mW e.i.r.p. and up to a maximum of 4 W e.i.r.p.	Draft. Approved by Technical Body. Under ETSI Deliverable approval process. Once it is completed, the final assessment form European Commission is required.
Draft EN 304 121 V0.0.2	Satellite Earth Stations & Systems (SES) IoT-NTN (Internet of Things Non Terrestrial Networks) capable User Equipment operating in frequency bands below 7,125 GHz	Early Draft. Test Standard development work is just starting.
Draft EN 304 122 V0.0.3	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 just starting.

Draft EN 305 550-3 V1.1.1_0.0.1	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 just starting.
Draft EN 305 550-4 V0.0.2	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 just starting.
Draft EN 305 550-5 V1.0.0	Short Range Devices (SRD) to be used in the 40 GHz to 260 GHz frequency range Part 5: Ultra Short Range Communication (USRC) equipment operating within 57 GHz to 64 GHz	Final Draft. Under final ETSI approval process. Once it is completed, the final assessment form European Commission is required.
Draft EN 305 550-6 V1.2.0	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	Final Draft. Under final ETSI approval process. Once it is completed, the final assessment form European Commission is required.
Draft EN 300 386 V2.2.8	Telecommunication network equipment Harmonised Standard for ElectroMagnetic Compatibility (EMC) requirements	Stable Draft. European Commission first assessment completed and currently addressing the comments.
Draft EN 301 489-9 V2.2.1_0.0.4	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. Test Standard development work is progressing.
Draft EN 301 489-13 V2.2.1_0.0.12	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 13: Specific conditions for Citizens' Band (CB) radio and ancillary equipment (speech and non-speech)	Stable Draft. European Commission first assessment completed and currently addressing the comments.
Draft EN 301 489-50 V2.4.1_0.0.17	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment	Draft. European Commission first assessment received. Comments addressed and ready to initiate the Working Group approval process.
Draft EN 301 489-55 V0.0.14	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 1215 MHz	Stable Draft. European Commission first assessment completed and currently addressing the comments.

EN 301 843-2 V2.3.1_0.0.5	ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services Part 2: Specific conditions for VHF radiotelephone transmitters and receivers	Stable Draft. European Commission first assessment completed and currently addressing the comments.
Draft EN 301 843-8 V1.1.1_0.0.7	ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services Part 8: Specific conditions for radio beacons and locating devices	Stable Draft. European Commission first assessment completed and currently addressing the comments.

ERC Recommendation 70-03 relating to the use of Short Range Devices (SRD) updated on March 8, 2025

Following with the periodic updates to ERC Rec 70-03, the following changes have been included in March update:

- Annex 10 – Radio Microphone Application including Assistive Listening Devices (ALD), Personal Cordless Devices

Frequency Band		Power	Mitigation Req	Mod/OBW	Notes
f1	169,4-174 MHz	10 mW e.r.p.	No requirement	Not specified	Band removed.

- Annex 11 – Radio Frequency Identification Applications

Frequency Band		Power	Mitigation Req	Mod/OBW	Notes
a1	865-865,6 MHz	100 mW e.r.p.	No requirement	≤ 200 kHz	Band removed.
a2	865,6-867,6 MHz	2 W e.r.p.	No requirement	≤ 200 kHz	Band removed.
a3	867,6-868 MHz	500 mW e.r.p.	No requirement	≤ 200 kHz	Band removed.

Additional Information:

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

European Commission Implementation Decision for harmonised use of radio spectrum for short range devices within the 874 – 876 MHz and 915 – 921 MHz bands

In October, 2018 the European Commission published Commission Implementing Decision (EU) 2018/1538 of 11 October 2018 on the harmonised use of radio spectrum in the 874 – 876 MHz and 915 – 92 1 MHz for short range devices (IoT and RFID devices).

In March, 2025 European Commission published Commission Implementing Decision (EU) 2025/650 of 26 March 2025 to amend the previous one by increasing the allocated band for Wideband data transmission devices:

Frequency Band	Device Category	Power Limit	Other Parameters	Updates

2	916,4-919,4 MHz	Wideband data transmission devices	25 mW e.r.p.	Bandwidth: > 600 kHz and ≤ 1 MHz Duty cycle: ≤ 10 % for network access points Duty cycle: ≤ 2,8 % otherwise	Extend the frequency band from 917,4-919,4 MHz to 916,4-919,4 MHz. Bandwidth > 600 kHz.

Additional Information:

- Commission Implementing Decision (EU) 2018/1538 of 11 October 2018: https://eur-lex.europa.eu/eli/dec_impl/2018/1538/oj/eng
- Commission Implementing Decision (EU) 2025/650 of 26 March 2025: https://eur-lex.europa.eu/eli/dec_impl/2025/650/oj/eng

European Commission amends the Decision 2006/771/EC with regard to frequency bands harmonisation for short-range devices

In January, 2025 European Commission published Commission Implementing Decision (EU) 2025/105 of 22 January 2025 updating the technical requirements for short-range devices harmonised bands. The following bands have been harmonised or updated since last update in February, 2022 (deadline for EU-27 to implement the update is July 1, 2025):

Frequency Band		Device Category	Power Limit	Other Parameters	Restrictions	Update
16	315-600 kHz	Active medical implant devices	-5 dB µA/m @10m	Duty cycle: ≤ 10 %	Animal implant devices only	New band added.
17	400-600 kHz	Radio Frequency Identification (RFID) devices	-8 dBµA/m @10m in any BW of 10 kHz -5 dBµA/m @10m for systems operating at BW > 10 kHz	Bandwidth: ≥ 30 kHz		Add field strength and bandwidth restrictions.
26	12.500-20.000 kHz	Active medical implant devices	– 7 dBµA/m @10m in any BW of 10 kHz	Duty cycle: ≤ 10 %	Animal implant devices only	New band added.
36	87,5-108 MHz	Non-specific short-range devices	50 nW e.r.p	Bandwidth: ≤ 200 kHz	Audio Tx using FM modulation only	Channel spacing requirement replaced by maximum BW requirement.
37a	169,4-169,475 MHz	Assistive Listening Devices (ALD)	500 mW e.r.p			Channel spacing requirement removed
37c	169,4-169,475 MHz	Non-specific short-range devices	500 mW e.r.p.	Duty cycle: ≤ 1 % Duty cycle: ≤ 10 % for metering devices		Channel spacing requirement removed.
39a	169,4875-169,5875 MHz	Assistive Listening Devices (ALD)	500 mW e.r.p.			Channel spacing requirement removed.

Frequency Band		Device Category	Power Limit	Other Parameters	Restrictions	Update
43	405-406 MHz	Active medical implant devices	25 µW e.r.p.	Bandwidth: ≤ 100 kHz Duty cycle: ≤ 0,1 % or techniques to access spectrum and mitigate interference	Nonvoice digital communications between active implantable medical devices and/or body-worn devices and other devices external to human body	Channel spacing requirement replaced by maximum BW requirement.
44a	433,05-434,79 MHz	Non-specific short-range devices	1 mW e.r.p.			Remove power density limit for BW ≥ 200 kHz. Remove use restrictions.
45c	434,04-434,79 MHz	Non-specific short-range devices	10 mW e.r.p.	Bandwidth: ≤ 25 kHz Duty cycle: ≤ 100 %		Channel spacing requirement replaced by maximum BW requirement.
94	821,5-826 MHz	Audio PMSE devices	100 mW e.i.r.p. for body worn devices 20 mW e.i.r.p. for other devices			New band added.
95	826-832 MHz	Audio PMSE devices	100 mW e.i.r.p.			New band added.
46b	863-865 MHz	Audio PMSE devices	10 mW e.r.p.		Available also for personal cordless audio devices	Band assigned to device category Audio PMSE devices.
49	868,6-868,7 MHz	Reliable alarm devices	10 mW e.r.p.	Bandwidth: ≤ 25 kHz. The whole frequency band may also be used as a single channel Duty cycle: ≤ 1 %		Band assigned to Reliable alarm devices.
52	869,25-869,3 MHz	Reliable alarm devices	10 mW e.r.p.	Bandwidth: ≤ 25 kHz Duty cycle: ≤ 0,1 %		Band assigned to Reliable alarm devices.
53	869,3-869,4 MHz	Reliable alarm devices	10 mW e.r.p.	Bandwidth: ≤ 25 kHz Duty cycle: ≤ 1 %		Band assigned to Reliable alarm devices.
55	869,65-869,7 MHz	Reliable alarm devices	25 mW e.r.p.	Bandwidth ≤ 25 kHz Duty cycle ≤ 10 %		Band assigned to Reliable alarm devices.
56a	869,7-870 MHz	Non-specific short-range devices	5 mW e.r.p			Remove use restrictions.

Frequency Band		Device Category	Power Limit	Other Parameters	Restrictions	Update
96	1.785-1.804,8 MHz	Audio PMSE devices	50 mW e.i.r.p. for body worn devices or devices implementing Spectrum Scanning Procedure (SSP) 20 mW e.i.r.p. for other devices			New band added.
59	2.483,5-2.500 MHz	Active medical implant devices	10 mW e.i.r.p	Bandwidth: ≤ 1 MHz. The whole frequency band may also be used as a single channel Duty cycle: ≤ 1 %		Channel spacing requirement replaced by maximum BW requirement.
88	5.855-5.865 MHz	Transport and Traffic Telematics devices	33 dBm e.i.r.p., 23 dBm/ MHz e.i.r.p. density TPC able to reduce the total power from its maximum to 3 dBm e.i.r.p.	Requirements on techniques to access spectrum and mitigate interference apply	Available for V2V, V2I and I2V systems only	Change in TPC (Transmit Power Control) requirements.
89	5.865-5.875 MHz	Transport and Traffic Telematics devices	33 dBm e.i.r.p., 23 dBm/ MHz e.i.r.p. density TPC able to reduce the total power from its maximum to 3 dBm e.i.r.p.	Requirements on techniques to access spectrum and mitigate interference apply	Available for V2V, V2I and I2V systems only	Change in TPC (Transmit Power Control) requirements.
65	17,1-17,3 GHz	Radio determination devices	26 dBm e.i.r.p	Requirements on techniques to access spectrum and mitigate interference apply	Available for ground-based SAR systems only	Restricted to Ground-based Synthetic Aperture Radar (SAR) system only.
97	69,8-79,9 GHz	Radio determination devices	7 dBm e.i.r.p		Available for indoor security scanners	New band added.
79b	76-77 GHz	Transport and Traffic Telematics devices	30 dBm peak e.i.r.p. 3 dBm/MHz average e.i.r.p. density	Duty cycle: ≤ 56 %/s	Available for obstacle detection systems for rotorcraft use Exclusion zones around radio astronomy sites shall apply	Add radio astronomy sites exclusion zones.
98	76-77 GHz	Radio determination devices	48 dBm mean e.i.r.p. 18 dBm/MHz mean e.i.r.p. density	Requirements on techniques to access spectrum and mitigate interference apply	Available for ground-based SAR systems only Exclusion zones around radio astronomy sites shall apply	New band added.

Frequency Band		Device Category	Power Limit	Other Parameters	Restrictions	Update
99	76,5-80,5 GHz	Radio determination devices	19 dBm peak e.i.r.p	At least 23 dB out-of-band attenuation relative to the maximum allowed peak e.i.r.p. is required	Available for indoor security scanners only	New band added.

Additional Information:

- Commission Implementing Decision (EU) 2025/105: https://eur-lex.europa.eu/eli/dec_impl/2025/105/oj/eng

European Commission releases a Standardization Request on charging interface and charging communication protocol for radio equipment capable of being recharged by means of wireless charging

Following the EU common charger initiative, in February, 2025 the European Commission released a standardization request to select a technical solution for wireless charging. The developed standard should include detailed technical specifications for a common and interoperable wireless charging interface and wireless charging communication protocol, including appropriate test methods or equivalent verifiable and reproducible approaches.

Standardization request has been addressed to CENELEC because it aims to cover Radio Equipment Directive Article 3(4) (common charger) essential requirement only. On the other hand, ETSI has work addressing Article 3(1)(b) (EMC) and Article 3(2) (RF).

Standardization request sets a March 2027 deadline to complete the standard adoption by CENELEC.

Additional Information:

- Wireless Charging Standardization Request: https://ec.europa.eu/transparency/documents-register/detail?ref=C(2025)1207&lang=en

North America (USA and Canada)

FCC KDBs Updates

Main KDBs published/updated during Q1/2025:

KDB	Status	Question	Comments
364244	New	What Guidance is provided for certifying radar devices under the provisions of §15.255 of the FCC rules?	KDB provides guidance on the information that should be included when applying for equipment authorization for 57-71 GHz radar devices. Besides, it describes the procedures suitable to perform measurements for this kind of devices.
388624	Update	What devices require FCC guidance prior to a TCB issuing a grant of equipment authorization, and what are the procedures to obtain this guidance?	PAG List updated: - Added CV2XOR (for C-V2X devices). - Updated OVER6G (checklist was simplified for the 6 to 8.5 GHz range by requiring a single power density measurement in correspondence to the largest SAR value that was measured). - Removed RDR255 and HAC5GS (HAC compliance over 5G air interfaces must be demonstrated).
447498	Update	What are the RF exposure requirements and procedures for mobile and portable devices?	New guidance as an interim alternative for body exposure testing at zero mm (contact) requirements for portable devices (e.g. handsets, tablets, laptops and similarly shaped rectangular form factor devices.). Body exposure for all Portable devices must be demonstrated at distances not to exceed 5 mm, unless an on-body holder is available and shown in grant exhibits, in which case the minimum test separation distance can be increased as supported by the holder structure, but not to exceed 25 mm.
484596	Update	What is the FCC's policy permitting the referencing of test data from another equipment authorization application?	Major restructuring of the document. Data Reference is restricted to component depopulation only. ECR Inquired to the FCC is no longer required. TCB is responsible for Data Referencing proposal review. Several examples for typica cases included.
511808	Update	What are the procedures for getting an equipment authorization for Part 90 subpart M and Part 95 Subpart L devices using C-V2X systems for named entities under a waiver?	Updated to consider that waiver process is no longer necessary.
662911	Update	What is the guidance for measurement of output emission of devices that employ single transmitter with multiple outputs or systems with multiple transmitters operating simultaneously in the same frequency band?	The requirement for a PAG inquiry has been removed because the KDB provides additional guidance.

KDB	Status	Question	Comments
842590	Update	What measurement procedures should be used for demonstrating compliance of millimeter wave devices?	Add new limits in the 23.6 - 24 GHz range for devices after January 13, 2025.
987594	Update	What are the requirements for obtaining a Certification for U-NII 6 GHz devices operating in the 5.925-7.125 GHz band under Part 15, Subpart E?	Updated Q&A to explain how can the AFC consider an indoor device that is a composite standard access point and low-power indoor access point for Building Entry Loss (BEL) for up to 6 dB of additional power.

The Department of Commerce has issued a final rule that will prohibit the sale and import of connected vehicle HW and SW from the China and Russia.

On January 14, 2025 the Department of Commerce has issued a final rule that will prohibit the sale and import of connected vehicle hardware and software systems, as well as completed connected vehicles, from the China and Russia.

This rule aims to help the United States defend against the China and Russia cyber espionage and intrusion operations, which continue to pose a significant threat to U.S. critical infrastructure and public safety. Beyond risks to critical infrastructure, the Department of Commerce assesses that certain hardware and software used in connected vehicles could enable mass collection of sensitive information such as geolocation data, audio and video recordings, …

The rule will prohibit the import or sale of certain connected vehicle systems designed, developed, manufactured, or supplied by entities with ties to China or Russia. The restriction applies to:

- **Vehicle Connectivity Systems (VCS)**: Components that connect vehicles to the outside world (e.g. Bluetooth, cellular, satellite, and Wi-Fi modules).
- **Automated Driving Systems (ADS)**: Components which allow highly autonomous vehicles to operate independently of a driver behind the wheel.

The rule restricts on the import or sale of connected vehicles using VCS and ADS software as well as the import of VCS hardware equipment. Restrictions on software will take effect for Model Year 2027 and restrictions on hardware will take effect for Model Year 2030.

Additional Information:

- White House Fact Sheet: https://bidenwhitehouse.archives.gov/briefing-room/statements-releases/2025/01/14/fact-sheet-safeguarding-america-from-national-security-risks-of-connected-vehicle-technology-from-china-and-russia/
- Department of Commerce Final Rule: https://www.federalregister.gov/documents/2025/01/16/2025-00592/securing-the-information-and-communications-technology-and-services-supply-chain-connected-vehicles

ISED Updates

ISED Radio Standards updated in Q1/2025:

Test Standard	Status	Title	Comments
RSS-102.SAR.MEAS Issue 2	Draft	Measurement Procedure for Assessing Specific Absorption Rate (SAR) Compliance in Accordance with RSS-102	Draft under Consultation in Radio Advisory Board of Canada. Main updates are: - New requirements and clarifications for time-averaged SAR (TAS) for algorithm approvals and final product implementations including wireless wide area networks (WWANs), wireless local area networks (WLANs), and non-terrestrial networks (NTN). - New requirements on time-averaged absorbed power density (TA-APD) for WLAN devices operating in the 5925-7125 MHz. - New requirement for TAS measurements allowed to be conducted with an array class 2 fast SAR system as per IEC/IEEE 62209-1528. - Clarified test procedure for foldable devices.
RSS-102.SAR.SIM Issue 1	Draft	Simulation Procedure for Assessing Specific Absorption Rate (SAR) Compliance in Accordance with RSS-102	Draft under Consultation in Radio Advisory Board of Canada. Main updates are: - Content is nearly identical to SPR-002 issue 2. Specific requirements for nerve stimulation (NS)-related simulations are located in this document. - Frequency range is extended from 100 kHz to 6 GHz and the dielectric properties are adjusted accordingly. - SAM phantom is introduced - Requirements for calculation of the uncertainty are clarified.
RSS-247 Issue 4	Draft	Digital Transmission Systems, Frequency Hopping Systems and Licence-Exempt Local Area Network Devices in 902 928 MHz, 2400-2483.5 MHz, 5150-5350 MHz, and 5470 5895 MHz bands	Draft under Consultation in Radio Advisory Board of Canada. Main updates are: - Remove the restriction on operation of devices in the 5600 MHz to 5650 MHz frequency range. - Clarification for devices operating within vehicles in the bands 5150-5250 MHz and 5250-5350 MHz. - Clarify unwanted emissions limits for transmitters operating in the 5150-5250 MHz. - Clearly identify the different unwanted emission limits of transmitters operating in the band 5250-5350 MHz. - Add a reporting requirement to section 7.1 for devices implementing transmitter power control
RSS-193 Issue 1	Draft	Flexible Use Broadband Equipment Operating in the Band 27.5-28.35 GHz	Draft under Consultation in Radio Advisory Board of Canada. New standard for fixed and/or mobile services, operating in the frequency band 27.5-28.35 GHz.

Test Standard	Status	Title	Comments
RSS-102.IPD.MEAS Issue 2	Draft	Measurement Procedure for Assessing Incident Power Density (IPD) Compliance in Accordance with RSS-102	Draft under Consultation in Radio Advisory Board of Canada. Main updates are: - New requirements extending the frequency range to cover all portable devices operating in the 6 GHz to 300 GHz frequency band - Update references from IEC TR 63170 to IEC/IEEE 63195-1. - New requirements for hand exposure during a voice call. - Preliminary guidance for time-averaged incident power density.
RSS-102.IPD.SIM Issue 2	Draft	Simulation Procedure for Assessing Incident Power Density (IPD) Compliance in Accordance with RSS-102	Draft under Consultation in Radio Advisory Board of Canada. Main updates are: - New requirements extending the frequency range to cover all portable devices operating in the 6 GHz to 300 GHz frequency band. - Update the assessment requirements reference to IEC/IEEE 63195-2.

ISED main General Notices published in Q1/2025:

Notice	Description	Comments
Notice 2025-DRS0001	Guidance on NS Exemption Limits	In light of numerous inquiries and subsequent investigations concerning the various shapes of coils for NS exemption, this Notice is intended to provide guidance on which coil shapes qualify for exemption from NS testing. Only the following coil shapes are applicable to NS exemption limits: - Planar shapes: Square, Rectangular, Hexagonal and Elliptical. - Stacked shapes: Stacked Rounded Rectangular, Stacked Rounded Cylindrical and Cylindrical Coil. - Surface Mount Technology (SMT) Coil Inductors. Other coils like 3-Axis SMT Coil, Double D Coil,… are not exempt from NS testing and ISED will not be considering any additional NS exemption requests.

Standards Development Organizations (SDO)

International Electrotechnical Commission (IEC)

Main IEC Publications related with EMC/RF released in Q1/2025:

Publication	Scope
IEC/IEEE 63184:2025	Assessment methods of the human exposure to electric and magnetic fields from wireless power transfer systems – Models, instrumentation, measurement and computational methods and procedures (frequency range of 3 kHz to 30 MHz)
IEC 61000-4-2:2025	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test
IEC 60601-2-16:2025 RLV	Medical electrical equipment - Part 2-16: Particular requirements for the basic safety and essential performance of haemodialysis, haemodiafiltration and haemofiltration equipment
IEC 60601-2-68:2025 RLV	Medical electrical equipment - Part 2-68: Particular requirements for the basic safety and essential performance of X-ray-based image-guided radiotherapy equipment for use with electron accelerators, light ion beam therapy equipment and radionuclide beam therapy equipment
IEC 80601-2-71:2025	Medical electrical equipment - Part 2-71: Particular requirements for the basic safety and essential performance of functional near-infrared spectroscopy (NIRS) equipment
IEC TS 62271-313:2025 EXV	High-voltage switchgear and controlgear - Part 313: Direct current circuit-breakers
IEC TS 62271-315:2025 EXV	High-voltage switchgear and controlgear - Part 315: Direct current (DC) transfer switches
IEC 63277-3-1:2025	Binary power generation systems - Part 3-1: Safety requirements - System with less than 500 kW in capacity
IEC 63522-25:2025	Electrical relays - Tests and measurements - Part 25: Magnetic interference
IEC 62037-1:2025 RLV	Passive RF and microwave devices, intermodulation level measurement - Part 1: General requirements and measuring methods
IEC 62037-8:2025 RLV	Passive RF and microwave devices, intermodulation level measurement - Part 8: Measurement of passive intermodulation generated by objects exposed to RF radiation
IEC 62657-2:2025 RLV	Industrial networks - Coexistence of wireless systems - Part 2: Coexistence management
IEC 60050-726:2025	International Electrotechnical Vocabulary (IEV) - Part 726: Transmission lines and waveguides

Additional Information:

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

CEN-CENELEC

Main CEN-CENELEC Publications related with EMC/RF released in Q1/2025:

Publication	Scope
EN IEC 61000-4-41:2025	Electromagnetic compatibility (EMC) - Part 4-41: Testing and measurement techniques - Broadband radiated immunity tests
EN IEC 60601-2-16:2025	Medical electrical equipment - Part 2-16: Particular requirements for the basic safety and essential performance of haemodialysis, haemodiafiltration and haemofiltration equipment
EN IEC 60601-2-39:2025	Medical electrical equipment - Part 2-39: Particular requirements for the basic safety and essential performance of peritoneal dialysis equipment
EN IEC 60601-2-40:2025	Medical electrical equipment - Part 2-40: Particular requirements for the basic safety and essential performance of electromyographs and evoked response equipment
EN IEC 60601-2-68:2025	Medical electrical equipment - Part 2-68: Particular requirements for the basic safety and essential performance of X-ray-based image-guided radiotherapy equipment for use with electron accelerators, light ion beam therapy equipment and radionuclide beam therapy equipment
EN IEC 60601-2-83:2020/A1:2025	Medical electrical equipment - Part 2-83: Particular requirements for the basic safety and essential performance of home light therapy equipment
EN IEC 80601-2-71:2025	Medical electrical equipment - Part 2-71: Particular requirements for the basic safety and essential performance of functional near-infrared spectroscopy (NIRS) equipment
EN IEC 60947-2:2025	Low-voltage switchgear and controlgear - Part 2: Circuit-breakers
EN IEC 62657-2:2025	Industrial networks - Coexistence of wireless systems - Part 2: Coexistence management

Additional Information:

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

International Organization for Standardization (ISO)

Main ISO Publications related with EMC/RF released in Q1/2025:

Publication	Scope
ISO 5474-4:2025	Electrically propelled road vehicles Functional and safety requirements for power transfer between vehicle and external electric circuit Part 4: Magnetic field wireless power transfer
ISO/PAS 5474-6:2025	Electrically propelled road vehicles Functional and safety requirements for power transfer between vehicle and external electric circuit Part 6: Safety and interoperability requirements for heavy-duty vehicles in magnetic field wireless power transfer
ISO 3991:2025	Agricultural machinery Robotic feed systems Safety
ISO 16089:2025	Machine tools Safety Stationary grinding machines
ISO 19085-15:2025	Woodworking machines Safety Part 15: Presses

Additional Information:

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

SAE International

Main SAE International Publications related with EMC, Automotive and Aerospace released in Q1/2025:

Publication	Status	Scope
J3271_202503	Issued	SAE Megawatt Charging System for Electric Vehicles

Additional Information:

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