

# Deutsche Akkreditierungsstelle GmbH

## Anlage zur Akkreditierungsurkunde D-PL-12076-01-03 nach DIN EN ISO/IEC 17025:2005

Gültigkeitsdauer: 11.01.2019 bis 21.04.2021      Ausstellungsdatum: 11.01.2019

Urkundeninhaber:

**CTC advanced GmbH**  
**Untertürkheimer Straße 6-10, 66117 Saarbrücken**

Prüfungen in den Bereichen:

### **Telekommunikation**

Innerhalb der mit \* gekennzeichneten Akkreditierungsbereiche ist dem Prüflaboratorium, ohne dass es einer vorherigen Information und Zustimmung der DAkKS bedarf, die Anwendung der hier aufgeführten genormten oder ihnen gleichzusetzenden Prüfverfahren mit unterschiedlichen Ausgabeständen gestattet.

Das Prüflaboratorium verfügt über eine aktuelle Liste aller Prüfverfahren im flexiblen Akkreditierungsbereich.

Die mit \*\* gekennzeichneten Akkreditierungsbereiche unterliegen nicht dem Flexiblen Bereich.

### **B Funk**

#### **B.1 Satellitenfunk \***

| <b>Fachbereich</b> | <b>Norm oder Prüfverfahren (Ausgabestand)</b> | <b>Titel der Norm oder des Prüfverfahrens</b>   | <b>Prüfbereich /Einschränkung</b> |
|--------------------|---|---|-----------------------------------|
| Telecommunication  | ETSI EN 301 360<br>V1.2.1 (2006-02)           | Satellite Earth Stations and Systems (SES);<br>Harmonized EN for Satellite Interactive<br>Terminals (SIT) and Satellite User Terminals<br>(SUT) transmitting towards geostationary<br>satellites in the 27,5 to 29,5 GHz frequency<br>bands covering essential requirements under<br>Article 3.2 of the R&TTE Directive |                                   |

**B.1 Satellitenfunk \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens  | Prüfbereich /Einschränkung |
|-------------------|--|---|----------------------------|
| Telecommunication | ETSI EN 301 426 V1.2.1 (2001-10)       | Satellite Earth Stations and Systems (SES); Harmonized EN for Low data rate Land Mobile satellite Earth Stations (LMES) and Maritime Mobile satellite Earth Stations (MMES) not intended for distress and safety communications operating in the 1,5/1,6 GHz frequency bands covering essential requirements under Article 3.2 of the R&TTE directive |                            |
| Telecommunication | ETSI EN 301 427 V1.2.1 (2001-11)       | Satellite Earth Stations and Systems (SES); Harmonized EN for Low data rate Land Mobile satellite Earth Stations (LMES) except aeronautical mobile satellite earth stations, operating in the 11/12/14 GHz frequency bands covering essential requirements under article 3.2 of the R&TTE directive   |                            |
| Telecommunication | ETSI EN 301 428 V1.3.1 (2006-02)       | Satellite Earth Stations and Systems (SES); Harmonized EN for Very Small Aperture Terminal (VSAT); Transmit-only, transmit/receive or receive-only satellite earth stations operating in the 11/12/14 GHz frequency bands covering essential requirements under article 3.2 of the R&TTE directive  |                            |
| Telecommunication | ETSI EN 301 430 V1.1.1 (2000-05)       | Satellite earth stations and systems (SES); Harmonized EN for satellite news gathering transportable earth stations (SNG TES) operating in the 11–12/13–14 GHz frequency bands covering essential requirements under Article 3(2) of the R&TTE Directive  |                            |
| Telecommunication | ETSI EN 301 441 V1.1.1 (2000-05)       | Satellite Earth Stations and Systems (SES); Harmonized EN for Mobile Earth Stations (MESs), including handheld earth stations, for Satellite Personal Communications Networks (S-PCN) in the 1,6/2,4 GHz bands under the Mobile Satellite Service (MSS) covering essential requirements under Article 3.2 of the R&TTE directive                      |                            |

**B.1 Satellitenfunk \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens   | Prüfbereich /Einschränkung |
|-------------------|--|--|----------------------------|
| Telecommunication | ETSI EN 301 442<br>V1.2.1 (2010-08)    | Satellite Earth Stations and Systems (SES); Harmonized EN for Mobile Earth Stations (MESs), including handheld earth stations, for Satellite Personal Communications Networks (S-PCN) in the 2,0 GHz bands under the Mobile Satellite Service (MSS) covering essential requirements under Article 3.2 of the R&TTE directive |                            |
| Telecommunication | ETSI EN 301 443<br>V1.3.1 (2006-02)    | Satellite Earth Stations and Systems (SES); Harmonized EN for Very Small Aperture Terminal (VSAT); Transmit-only, transmit-and-receive, receive-only satellite earth stations operating in the 4 GHz and 6 GHz frequency bands covering essential requirements under article 3.2 of the R&TTE directive                      |                            |
| Telecommunication | ETSI EN 301 444<br>V1.2.2 (2013-06)    | Satellite Earth Stations and Systems (SES); Harmonized EN for Land Mobile Earth Stations (LMES) operating in the 1,5 GHz and 1,6 GHz bands providing voice and/or data communications covering essential requirements under Article 3.2 of the R&TTE directive   |                            |
| Telecommunication | ETSI EN 301 447<br>V1.1.1 (2007-08)    | Satellite Earth Stations and Systems (SES); Harmonized EN for Satellite Earth Stations on board Vessels (ESVs) operating in the 4/6 GHz frequency bands allocated to the Fixed Satellite Service (FSS) covering essential requirements under article 3.2 of the R&TTE directive  |                            |
| Telecommunication | ETSI EN 301 459<br>V1.4.1 (2007-06)    | Satellite Earth Stations and Systems (SES); Harmonized EN for Satellite Interactive Terminals (SIT) and Satellite User Terminals (SUT) transmitting towards satellites in geostationary orbit in the 29,5 GHz to 30,0 GHz frequency band covering essential requirements under article 3.2 of the R&TTE directive            |                            |

**B.1 Satellitenfunk \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens   | Prüfbereich /Einschränkung |
|-------------------|--|--|----------------------------|
| Telecommunication | ETSI EN 301 473<br>V1.4.1 (2013-03)    | Satellite Earth Stations and Systems (SES); Aircraft Earth Stations (AES) operating under the Aeronautical Mobile Satellite Service (AMSS)/Mobile Satellite Service (MSS) and/or the Aeronautical Mobile Satellite on Route Service (AMS(R)S)/Mobile Satellite Service (MSS)   |                            |
| Telecommunication | ETSI EN 301 681<br>V1.4.1 (2011-11)    | Satellite Earth Stations and Systems (SES); Harmonized EN for Mobile Earth Stations (MESs) of Geostationary mobile satellite systems, including handheld earth stations, for Satellite Personal Communications Networks (S-PCN) in the 1,5/1,6 GHz bands under the Mobile Satellite Service (MSS) covering essential requirements under Article 3.2 of the R&TTE Directive |                            |
| Telecommunication | ETSI EN 301 682<br>V1.1.2 (2001-01)    | Satellite Personal Communications Networks (S-PCN); Network Control Facilities (NCF) for Mobile Earth Stations (MESs), including handheld earth stations, for S-PCN in the 1,5/1,6 GHz bands, providing voice and/or data communications under the Mobile Satellite Service (MSS)  |                            |
| Telecommunication | ETSI EN 301 721<br>V1.2.1 (2001-06)    | Satellite Earth Stations and Systems (SES); Harmonized EN for Mobile Earth Stations (MES) providing Low Bit Rate Data Communications (LBRDC) using Low Earth Orbiting (LEO) satellites operating below 1 GHz covering essential requirements under Article 3.2 of the R&TTE directive  |                            |
| Telecommunication | ETSI EN 302 186<br>V1.1.1 (2004-01)    | Satellite Earth Stations and Systems (SES); Harmonized EN for satellite mobile Aircraft Earth Stations (AESs) operating in the 11/12/14 GHz frequency bands covering essential requirements under article 3.2 of the R&TTE directive   |                            |

**B.1 Satellitenfunk \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens  | Prüfbereich /Einschränkung |
|-------------------|--|---|----------------------------|
| Telecommunication | ETSI EN 302 340 V1.1.1 (2006-04)       | Satellite Earth Stations and Systems (SES); Harmonized EN for Satellite Earth Stations on board Vessels (ESVs) operating in the 11/12/14 GHz frequency bands allocated to the Fixed Satellite Service (FSS) covering essential requirements under article 3.2 of the R&TTE directive                        |                            |
| Telecommunication | ETSI EN 302 448 V2.1.1 (2016-05)       | Satellite Earth Stations and Systems (SES); Harmonised Standard for tracking Earth Stations on Trains (ESTs) operating in the 14/12 GHz frequency bands covering the essential requirements of article 3.2 of the Directive 2014/53/EU  |                            |
| Telecommunication | ETSI EN 303 413 V1.1.1 (2017-06)       | Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 1 164 MHz to 1 300 MHz and 1 559 MHz to 1 610 MHz frequency bands; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU         |                            |
| Telecommunication | ETSI EN 303 978 V2.1.2 (2016-10)       | Satellite Earth Stations and Systems (SES); Harmonised Standard for Earth Stations on Mobile Platforms (ESOMP) transmitting towards satellites in geostationary orbit, operating in the 27,5 GHz to 30,0 GHz frequency bands covering the essential requirements of article 3.2 of the Directive 2014/53/EU |                            |
| Telecommunication | ETSI TS 101 136 V1.3.1 (2001-06)       | Satellite Earth Stations and Systems (SES); Guidance for general purpose earth stations transmitting in the 5,7 GHz to 30,0 GHz frequency bands towards geostationary satellites and not covered by other ETSI specifications or standards  |                            |

**B.2 Navigation radio \***

| Fachbereich                | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens   | Prüfbereich /Einschränkung |
|----------------------------|--|--|----------------------------|
| Telecommunication          | IEC 62388 ed. 2.0 (2013-06)            | Maritime navigation and radio communication equipment and systems - Shipborne radar - Performance requirements, methods of testing and required test results   |                            |
| Telecommunication          | EN 60936-1:2000+A1:2002                | Maritime navigation and radio communication equipment and systems-Radar – Part 1: Shipborne radar – Performance requirements – Methods of testing and required test results  |                            |
| Telecommunication          | EN 61097 – 1:2007                      | Global maritime distress and safety system (GMDSS) – Part 1: Radar transponder – Marine search and rescue (SART) – Operational and performance requirements – Methods of testing and required test results   |                            |
| Telecommunication          | ETSI EN 302 054-1 V1.2.1 (2015-10)     | Electromagnetic compatibility and Radio spectrum Matters (ERM); Meteorological Aids (Met Aids); Radiosondes to be used in the 400,15 MHz to 406 MHz frequency range with power levels ranging up to 200 mW; Part 1: Technical characteristics and test methods |                            |
| Telecommunication          | ETSI EN 302 054-2 V1.2.1 (2015-10)     | ...; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive  |                            |
| Telecommunication          | ETSI EN 302 248 V2.1.1 (2016-09)       | Navigation radar for use on non-SOLAS vessels; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU  |                            |
| Nicht Flexibler Bereich ** |  |  |                            |
| Telecommunication          | BNetzA SSB FL 014:2012-06              | Schnittstellenbeschreibung für Bodengestützte Sendeeinrichtungen des Flugnavigations- und Ortungsfunks bei 1030 und 1090 MHz   |                            |
| Telecommunication          | BNetzA SSB FL 017:2013-07              | Schnittstellen für Sekundärradaranlagen  |                            |

**B.3 Aeronautical Radio \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens  | Prüfbereich /Einschränkung |
|-------------------|--|---|----------------------------|
| Telecommunication | ETSI EN 300 152-1 V1.2.2 (2000-08)     | Radio Equipment and Systems (RES); Maritime Emergency Position Indicating Radio Beacons (EPIRBs) intended for use on the frequency 121.5 MHz or the frequencies 121.5 MHz and 243 MHz for homing purposes only; Part 1: Technical characteristics and methods of measurement                                    | only radio part            |
| Telecommunication | ETSI EN 300 152-2 V1.1.1 (2000-08)     | Radio Equipment and Systems (RES); Maritime Emergency Position Indicating Radio Beacons (EPIRBs) intended for use on the frequency 121.5 MHz or the frequencies 121.5 MHz and 243 MHz for homing purposes only; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive                                  | only radio part            |
| Telecommunication | ETSI EN 300 152-3 V1.1.1 (2001-05)     | Radio Equipment and Systems (RES); Maritime Emergency Position Indicating Radio Beacons (EPIRBs) intended for use on the frequency 121.5 MHz or the frequencies 121.5 MHz and 243 MHz for homing purposes only; Part 3: Harmonized EN covering essential requirements of article 3.3 (e) of the R&TTE Directive | only radio part            |
| Telecommunication | ETSI EN 300 066 V1.3.1 (2001-01)       | Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Float-free maritime satellite Emergency Position Indicating Radio Beacons (EPIRBs) operating in the 406,0 MHz to 406,1 MHz frequency band; Technical characteristics and methods of measurement   | only radio part            |
| Telecommunication | ETSI EN 300 676-1 V1.5.2 (2011-03)     | Electromagnetic compatibility and Radio spectrum Matters (ERM); Ground-based VHF hand-held, mobile and fixed radio transmitters, receivers and transceivers for the VHF aeronautical mobile service using amplitude modulation; Part 1: Technical characteristics and methods of measurement                    |                            |

**B.3 Aeronautical Radio \***

| Fachbereich                | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens   | Prüfbereich /Einschränkung |
|----------------------------|--|--|----------------------------|
| Telecommunication          | ETSI EN 300 676-2 V2.1.1 (2015-12)     | Electromagnetic compatibility and Radio spectrum Matters (ERM); Ground-based VHF hand-held, mobile and fixed radio transmitters, receivers and transceivers for the VHF aeronautical mobile service using amplitude modulation; Part 2: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU |                            |
| Nicht Flexibler Bereich ** |  |  |                            |
| Telecommunication          | EUROCAE-ED-23C 2009-06                 | Minimum Operational Performance Specification for Airborne VHF Receiver – Transmitter operating in the Frequency Range 117.975 – 137.000 MHz   |                            |
| Telecommunication          | IEC 61097-5:1997-12                    | Global maritime distress and safety system (GMDSS) - Part 5: Inmarsat-E - Emergency position indicating radio beacon (EPIRB) operating through the Inmarsat system - Operational and performance requirements, methods of testing and required test results  |                            |
| Nicht Flexibler Bereich ** |  |  |                            |
| Telecommunication          | EUROCAE-ED-62 2009-02                  | Minimum Operational Performance Specification for Aircraft Emergency Locator Transmitters ELT, ED-62A 121.5 MHz - 406 MHz (Optional 243 MHz)   |                            |

**B.4 Microwave radio relay, WiMax \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens   | Prüfbereich /Einschränkung |
|-------------------|--|--|----------------------------|
| Telecommunication | ETSI EN 301 126-1 V1.1.2 (1999-09)     | Fixed Radio Systems; Conformance testing; Part 1: Point-to-Point equipment – Definitions, general requirements and test procedures |                            |



**B.4 Microwave radio relay, WiMax \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens  | Prüfbereich /Einschränkung |
|-------------------|--|---|----------------------------|
| Telecommunication | ETSI EN 301 390 V1.3.1 (2013-08)       | Fixed Radio Systems; Point-to-point and Multipoint Systems; Spurious emissions and receiver immunity limits at equipment/antenna port of Digital Fixed Radio Systems                              |                            |
| Telecommunication | ETSI EN 301 783-1 V1.2.1 (2010-07)     | Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Land Mobile Service; Commercially available amateur radio equipment; Part 1: Technical characteristics and methods of measurement |                            |
| Telecommunication | ETSI EN 301 783-2 V1.2.1 (2010-07)     | ...; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive   |                            |
| Telecommunication | ETSI EN 301 783 V2.1.1 (2016-01)       | Commercially available amateur radio equipment; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU  |                            |
| Telecommunication | ETSI EN 301 997-1 V1.1.1 (2002-06)     | Transmission and Multiplexing (TM); Multipoint equipment; Radio Equipment for use in Multimedia Wireless Systems (MWS) in the frequency band 40,5 GHz to 43,5 GHz; Part 1: General requirement    |                            |
| Telecommunication | ETSI EN 301 997-2 V1.1.1 (2003-09)     | ...;Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive  |                            |
| Telecommunication | ETSI EN 302 217-1 V2.1.1 (2013-07)     | Fixed Radio Systems; Characteristics and requirements for point-to-point equipment and antennas; Part 1: Overview and system-independent common characteristics                                   |                            |
| Telecommunication | ETSI EN 302 217-2-1 V2.1.1 (2014-12)   | ...; Part 2-1: System-dependent requirements for digital systems operating in frequency bands where frequency co-ordination is applied  |                            |

**B.4 Microwave radio relay, WiMax \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens   | Prüfbereich /Einschränkung |
|-------------------|--|--|----------------------------|
| Telecommunication | ETSI EN 302 217-2-2 V2.2.1 (2014-04)   | ...; Part 2-2: Harmonized EN covering essential requirements of Article 3.2 of R&TTE Directive for digital systems operating in frequency bands where frequency co-ordination is applied |                            |
| Telecommunication | ETSI EN 302 217-3 V2.2.1 (2014-04)     | ...; Part 3: Harmonized EN covering essential requirements of Article 3.2 of R&TTE Directive for equipment operating in frequency bands where no frequency co-ordination is applied      |                            |
| Telecommunication | ETSI EN 302 326-1 V1.2.2 (2007-06)     | Fixed Radio Systems; Multipoint Equipment and Antennas; Part 1: Overview and Requirements for Digital Multipoint Radio Systems   |                            |
| Telecommunication | ETSI EN 302 326-2 V1.2.2 (2007-06)     | ...; Part 2: Harmonized EN covering the essential requirements of Article 3.2 of the R&TTE Directive for Digital Multipoint Radio Equipment  |                            |
| Telecommunication | ETSI EN 302 326-3 V1.3.1 (2008-02)     | ...; Part 3: Harmonized EN covering the essential requirements of Article 3.2 of the R&TTE Directive for multipoint Radio Antennas   |                            |
| Telecommunication | ETSI EN 302 567 V2.1.1 (2017-07)       | Multiple-Gigabit/s radio equipment operating in the 60 GHz band; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU                          |                            |

**B.5 Trunked radio systems & PMR Radio \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens  | Prüfbereich /Einschränkung |
|-------------------|--|---|----------------------------|
| Telecommunication | ETSI EN 300 086 V2.1.2 (2016-08)       | Land Mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU |                            |

**B.5 Trunked radio systems & PMR Radio \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens  | Prüfbereich /Einschränkung |
|-------------------|--|---|----------------------------|
| Telecommunication | ETSI EN 300 086-1 V1.4.1 (2010-06)     | Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Land Mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech; Part 1: Technical characteristics and methods of measurement   |                            |
| Telecommunication | ETSI EN 300 086-2 V1.3.1 (2010-06)     | ... Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive  |                            |
| Telecommunication | Draft ETSI EN 300 113 V2.2.0 (2016-09) | Land Mobile Service; Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU                           |                            |
| Telecommunication | ETSI EN 300 113-1 V1.7.1 (2011-11)     | Electromagnetic compatibility and Radio spectrum Matters (ERM); Land mobile service; Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector; Part 1: Technical characteristics and methods of measurement |                            |
| Telecommunication | ETSI EN 300 113-2 V1.5.1 (2011-11)     | ... Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive  |                            |
| Telecommunication | ETSI EN 300 219 V2.1.1 (2016-08)       | Land Mobile Service; Radio equipment transmitting signals to initiate a specific response in the receiver; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU   |                            |

**B.5 Trunked radio systems & PMR Radio \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens   | Prüfbereich /Einschränkung |
|-------------------|--|--|----------------------------|
| Telecommunication | ETSI EN 300 219-1 V1.2.1 (2001-03)     | Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Land Mobile Service; Radio equipment transmitting signals to initiate a specific response in the receiver; Part 1: Technical characteristics and methods of measurement      |                            |
| Telecommunication | ETSI EN 300 219-2 V1.1.1 (2001-03)     | ...; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive  |                            |
| Telecommunication | ETSI EN 300 296 V2.1.1 (2016-03)       | Land Mobile Service; Radio equipment using integral antennas intended primarily for analogue speech; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU                                      |                            |
| Telecommunication | ETSI EN 300 296-1 V1.3.1 (2010-07)     | Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Land Mobile Service; Radio equipment using integral antennas intended primarily for analogue speech; Part 1: Technical characteristics and methods of measurement            |                            |
| Telecommunication | ETSI EN 300 296-2 V1.3.1 (2010-07)     | ...; Part 2: Harmonised EN covering essential requirements under article 3.2 of the R&TTE Directive  |                            |
| Telecommunication | ETSI EN 300 390 V2.1.1 (2016-03)       | Land Mobile Service; Radio equipment intended for the transmission of data (and speech) and using an integral antenna; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU                    |                            |
| Telecommunication | ETSI EN 300 390-1 V1.2.1 (2000-09)     | Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Land Mobile Service; Radio equipment intended for the transmission of data (and speech) and using an integral antenna; Part 1: Technical characteristics and test conditions |                            |

**B.5 Trunked radio systems & PMR Radio \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens  | Prüfbereich /Einschränkung |
|-------------------|--|---|----------------------------|
| Telecommunication | ETSI EN 300 390-2 V1.1.1 (2000-09)     | ...; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive                             |                            |
| Telecommunication | ETSI EN 300 793 V1.1.1 (1998-02)       | Electromagnetic compatibility and Radio spectrum Matters (ERM); Land mobile service; Presentation of equipment for type testing |                            |

**B.6 Paging systems \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens   | Prüfbereich /Einschränkung |
|-------------------|--|--|----------------------------|
| Telecommunication | ETSI EN 300 224-1 V1.3.1 (2001-01)     | Electromagnetic Compatibility and Radio Spectrum Matters (ERM); On-site paging service; Part 1: Technical and functional characteristics, including test methods |                            |
| Telecommunication | ETSI EN 300 224-2 V1.1.1 (2001-01)     | ...; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive  |                            |

**B.7 Non-public radio incl. WLAN, SRD, RFID \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens   | Prüfbereich /Einschränkung |
|-------------------|--|--|----------------------------|
| Telecommunication | ETSI EN 300 162-1 V1.4.1 (2006-05)     | Electromagnetic compatibility and Radio spectrum Matters (ERM); Radiotelephone transmitters and receivers for the maritime mobile service operating in VHF bands; Part 1: Technical characteristics and methods of measurement |                            |
| Telecommunication | ETSI EN 300 162-2 V1.2.1 (2006-12)     | ...; Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive   |                            |

**B.7 Non-public radio incl. WLAN, SRD, RFID \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens  | Prüfbereich /Einschränkung |
|-------------------|--|---|----------------------------|
| Telecommunication | ETSI EN 300 162-3 V1.2.1 (2006-12)     | ...; Part 3: Harmonized EN covering essential requirements of 3.3 (e) of the R&TTE Directive  |                            |
| Telecommunication | ETSI EN 300 220-2 V3.1.1 (2017-02)     | Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 2: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU for non specific radio equipment   |                            |
| Telecommunication | ETSI EN 300 220-3-1 V2.1.1 (2016-11)   | Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 3-1: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Low duty cycle high reliability equipment, Social Alarms Equipment operating on designated frequencies (869,200 MHz to 869,250 MHz)         |                            |
| Telecommunication | ETSI EN 300 220-3-2 V1.1.1 (2017-02)   | Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 3-2: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Wireless alarms operating in designated LDC/HR frequency bands 868,60 MHz to 868,70 MHz, 869,25 MHz to 869,40 MHz, 869,65 MHz to 869,70 MHz |                            |
| Telecommunication | ETSI EN 300 220-4 V1.1.1 (2017-02)     | Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 4: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Metering devices operating in designated band 169,400 MHz to 169,475 MHz  |                            |

**B.7 Non-public radio incl. WLAN, SRD, RFID \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens  | Prüfbereich /Einschränkung |
|-------------------|--|---|----------------------------|
| Telecommunication | ETSI EN 300 328 V2.1.1 (2016-11)       | Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU                  |                            |
| Telecommunication | ETSI EN 300 330 V2.1.1 (2017-02)       | Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU |                            |
| Telecommunication | ETSI EN 300 422-1 V2.1.2 (2017-01)     | Wireless Microphones; Audio PMSE up to 3 GHz; Part 1: Class A Receivers; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU   |                            |
| Telecommunication | ETSI EN 300 422-2 V2.1.1 (2017-02)     | Wireless Microphones; Audio PMSE up to 3 GHz; Part 2: Class B Receivers; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU   |                            |
| Telecommunication | ETSI EN 300 422-3 V2.1.1 (2017-02)     | Wireless Microphones; Audio PMSE up to 3 GHz; Part 3: Class C Receivers; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU   |                            |
| Telecommunication | ETSI EN 300 422-4 V2.1.1 (2017-05)     | Wireless Microphones; Audio PMSE up to 3 GHz; Part 4: Assistive Listening Devices including personal sound amplifiers and inductive systems up to 3 GHz; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU |                            |

**B.7 Non-public radio incl. WLAN, SRD, RFID \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens   | Prüfbereich /Einschränkung |
|-------------------|--|--|----------------------------|
| Telecommunication | ETSI EN 300 433-2 V1.3.1 (2011-07)     | Electromagnetic compatibility and Radio spectrum Matters (ERM); Citizens' Band (CB) radio equipment; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive       |                            |
| Telecommunication | ETSI EN 300 440 V2.1.1 (2017-03)       | Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU           |                            |
| Telecommunication | ETSI EN 300 440-1 V1.6.1 (2010-08)     | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short range devices; Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 1: Technical characteristics and test methods |                            |
| Telecommunication | ETSI EN 300 440-2 V1.4.1 (2010-08)     | ...; Part 2: Harmonized EN covering essential requirements under article 3.2 of R&TTE Directive  |                            |
| Telecommunication | ETSI EN 300 454-1 V1.1.2 (2000-08)     | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short range devices; Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 1: Technical characteristics and test methods |                            |
| Telecommunication | ETSI EN 300 454-2 V1.1.1 (2000-08)     | ...; Part 2: Harmonised EN under article 3.2 of the R&TTE Directive  |                            |



**B.7 Non-public radio incl. WLAN, SRD, RFID \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens  | Prüfbereich /Einschränkung |
|-------------------|--|---|----------------------------|
| Telecommunication | ETSI EN 300 674-1 V1.2.1 (2004-08)     | Electromagnetic compatibility and Radio spectrum Matters (ERM); Road Transport and Traffic Telematics (RTTT); Dedicated Short Range Communication (DSRC) transmission equipment (500 kbit/s / 250 kbit/s) operating in the 5,8 GHz Industrial, Scientific and Medical (ISM) band; Part 1: General characteristics and test methods for Road Side Units (RSU) and On-Board Units (OBU) |                            |
| Telecommunication | ETSI EN 300 674-2-1 V2.1.1 (2016-09)   | Transport and Traffic Telematics (TTT); Dedicated Short Range Communication (DSRC) transmission equipment (500 kbit/s / 250 kbit/s) operating in the 5 795 MHz to 5 815 MHz frequency band; Part 2: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Sub-part 1: Road Side Units (RSU)   |                            |
| Telecommunication | ETSI EN 300 674-2-2 V2.1.1 (2016-11)   | Transport and Traffic Telematics (TTT); Dedicated Short Range Communication (DSRC) transmission equipment (500 kbit/s / 250 kbit/s) operating in the 5 795 MHz to 5 815 MHz frequency band; Part 2: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Sub-part 1: Road Side Units (RSU)   |                            |
| Telecommunication | ETSI EN 300 698-1 V1.4.1 (2009-12)     | Electromagnetic compatibility and Radio spectrum Matters (ERM); Radio telephone transmitters and receivers for the maritime mobile service operating in the VHF bands used on inland waterways; Part 1: Technical characteristics and methods of measurement  |                            |
| Telecommunication | ETSI EN 300 698-2 V1.2.1 (2009-12)     | ...; Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive  |                            |

**B.7 Non-public radio incl. WLAN, SRD, RFID \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens   | Prüfbereich /Einschränkung |
|-------------------|--|--|----------------------------|
| Telecommunication | ETSI EN 300 718-1 V1.2.1 (2001-05)     | Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Avalanche Beacons; Transmitter-receiver systems; Part 1: Technical characteristics and test methods  |                            |
| Telecommunication | ETSI EN 300 718-2 V1.1.1 (2001-05)     | ...; Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive   |                            |
| Telecommunication | ETSI EN 300 718-3 V1.2.1 (2004-02)     | ...; Part 3: Harmonized EN covering essential requirements of article 3.3e of the R&TTE Directive  |                            |
| Telecommunication | ETSI EN 300 720 V2.1.1 (2017-01)       | Ultra-High Frequency (UHF) on-board vessels communications systems and equipment; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU   |                            |
| Telecommunication | ETSI EN 300 761 V1.1.1 (1998-01)       | Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Automatic Vehicle Identification (AVI) for railways  |                            |
| Telecommunication | ETSI EN 300 836-1 ed.1 (1998-05)       | Broadband Radio Access Networks (BRAN); High Performance Radio Local Area Network (HIPERLAN) Type 1; Conformance testing specification; Part 1: Radio type approval and Radio Frequency (RF) conformance test specification                                  |                            |
| Telecommunication | ETSI EN 301 025-1 V1.5.2 (2013-05)     | Electromagnetic compatibility and Radio spectrum Matters (ERM); VHF radiotelephone equipment for general communications and associated equipment for Class "D" Digital Selective Calling (DSC); Part 1: Technical characteristics and methods of measurement |                            |
| Telecommunication | ETSI EN 301 025-2 V1.5.1 (2013-09)     | ...; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive  |                            |

**B.7 Non-public radio incl. WLAN, SRD, RFID \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens  | Prüfbereich /Einschränkung |
|-------------------|--|---|----------------------------|
| Telecommunication | ETSI EN 301 091-1 V2.1.1 (2017-01)     | Short Range Devices; Transport and Traffic Telematics (TTT); Radar equipment operating in the 76 GHz to 77 GHz range; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Part 1: Ground based vehicular radar                                      |                            |
| Telecommunication | ETSI EN 301 091-2 V2.1.1 (2017-01)     | Short Range Devices; Transport and Traffic Telematics (TTT); Radar equipment operating in the 76 GHz to 77 GHz range; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Part 2: Fixed infrastructure radar equipment                              |                            |
| Telecommunication | ETSI EN 301 091-3 V1.1.1 (2017-02)     | Short Range Devices; Transport and Traffic Telematics (TTT); Radar equipment operating in the 76 GHz to 77 GHz range; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 3: Railway/Road Crossings obstacle detection system applications |                            |
| Telecommunication | ETSI EN 301 178-1 V1.4.1 (2011-11)     | Electromagnetic compatibility and Radio spectrum Matters (ERM); Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands (for non-GMDSS applications only); Part 1: Technical characteristics and methods of measurement          |                            |
| Telecommunication | ETSI EN 301 178-2 V1.2.2 (2007-02)     | Part 2: Harmonised EN covering essential requirements of article 3.2 of the R&TTE Directive   |                            |
| Telecommunication | ETSI EN 301 357 V2.1.1 (2017-06)       | Cordless audio devices in the range 25 MHz to 2000 MHz; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU  |                            |

**B.7 Non-public radio incl. WLAN, SRD, RFID \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand)   | Titel der Norm oder des Prüfverfahrens  | Prüfbereich /Einschränkung |
|-------------------|--|---|----------------------------|
| Telecommunication | ETSI EN 301 559 V2.1.1 (2016-10)         | Short Range Devices (SRD); Low Power Active Medical Implants (LP-AMI) and associated Peripherals (LP-AMI-P) operating in the 2 483,5 MHz to 2 500 MHz range; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU |                            |
| Telecommunication | ETSI EN 301 893 V2.1.1 (2017-05)         | 5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU  |                            |
| Telecommunication | ETSI ETS 300 224 A1 edition 01 (1996-11) | Radio Equipment and Systems (RES); On-site paging service; Technical and functional characteristics for on-site paging systems, including test methods  |                            |
| Telecommunication | ETSI EN 302 064 V2.1.1 (2016-09)         | Wireless Video Links operating in the 1,3 GHz to 50 GHz frequency band; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU  |                            |
| Telecommunication | ETSI EN 302 064-1 V1.1.2 (2004-07)       | Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless Video Links (WVL) operating in the 1,3 GHz to 50 GHz frequency band; Part 1: Technical characteristics and methods of measurement  |                            |
| Telecommunication | ETSI EN 302 064-2 V1.1.1 (2004-04)       | ...; Part 2: Harmonized EN under article 3.2 of the R&TTE directive   |                            |
| Telecommunication | ETSI EN 302 065-1 V2.1.1 (2016-11)       | Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Harmonised Standard covering essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Requirements for Generic UWB applications   |                            |

**B.7 Non-public radio incl. WLAN, SRD, RFID \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens   | Prüfbereich /Einschränkung |
|-------------------|--|--|----------------------------|
| Telecommunication | ETSI EN 302 065-2 V2.1.1 (2016-11)     | Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 2: Requirements for UWB location tracking                               |                            |
| Telecommunication | ETSI EN 302 065-3 V2.1.1 (2016-11)     | Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 3: Requirements for UWB devices for ground based vehicular applications |                            |
| Telecommunication | ETSI EN 302 065-4 V1.1.1 (2016-11)     | Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 4: Material Sensing devices using UWB technology below 10,6 GHz;        |                            |
| Telecommunication | ETSI EN 302 065-5 V1.1.1 (2017-09)     | Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 5: Devices using UWB technology onboard aircraft                        |                            |
| Telecommunication | ETSI EN 302 066 V2.1.1 (2017-01)       | Short Range Devices (SRD); Ground- and Wall- Probing Radar applications (GPR/WPR) imaging systems; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU  |                            |

**B.7 Non-public radio incl. WLAN, SRD, RFID \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens  | Prüfbereich /Einschränkung |
|-------------------|--|---|----------------------------|
| Telecommunication | ETSI EN 302 208 V3.1.1 (2016-11)       | 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; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU            |                            |
| Telecommunication | ETSI EN 302 217-2 V3.1.1 (2017-05)     | Fixed Radio Systems; Characteristics and requirements for point-to-point equipment and antennas; Part 2: Digital systems operating in frequency bands from 1,3 GHz to 86 GHz; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU                |                            |
| Telecommunication | EN 302 264 V2.1.1 (2017-05)            | Short Range Devices; Transport and Traffic Telematics (TTT); Short Range Radar equipment operating in the 77 GHz to 81 GHz band; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU   |                            |
| Telecommunication | ETSI EN 302 264-1 V1.1.1 (2009-06)     | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices; Road Transport and Traffic Telematics (RTTT); Radar equipment operating in the 77 GHz to 81 GHz range; Part 1: Technical requirements and methods of measurement                                       |                            |
| Telecommunication | ETSI EN 302 264-2 V1.1.1 (2009-06)     | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices; Road Transport and Traffic Telematics (RTTT); Radar equipment operating in the 77 GHz to 81 GHz range; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive |                            |

**B.7 Non-public radio incl. WLAN, SRD, RFID \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens   | Prüfbereich /Einschränkung |
|-------------------|--|--|----------------------------|
| Telecommunication | ETSI EN 302 288 V2.1.1 (2017-05)       | Short Range Devices; Transport and Traffic Telematics (TTT); Ultra-wideband radar equipment operating in the 24,25 GHz to 26,65 GHz range; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU  |                            |
| Telecommunication | ETSI EN 302 288-1 V1.6.1 (2012-03)     | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices; Road Transport and Traffic Telematics (RTTT); Short range radar equipment operating in the 24 GHz range   |                            |
| Telecommunication | ETSI EN 302 288-2 V1.6.1 (2012-03)     | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices; Road Transport and Traffic Telematics (RTTT); Short range radar equipment operating in the 24 GHz range   |                            |
| Telecommunication | ETSI EN 302 372 V2.1.1 (2016-12)       | Short Range Devices (SRD); 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; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU  |                            |
| Telecommunication | ETSI EN 302 372-1 V1.2.1 (2011-02)     | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Equipment for Detection and Movement; Tanks Level Probing Radar (TLPR) operating in the frequency bands 5,8 GHz, 10 GHz, 25 GHz, 61 GHz and 77 GHz; ; Part 1: Technical requirements and methods of measurement |                            |

**B.7 Non-public radio incl. WLAN, SRD, RFID \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens   | Prüfbereich /Einschränkung |
|-------------------|--|--|----------------------------|
| Telecommunication | ETSI EN 302 372-2 V1.2.1 (2011-02)     | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Equipment for Detection and Movement; Tanks Level Probing Radar (TLPR) operating in the frequency bands 5,8 GHz, 10 GHz, 25 GHz, 61 GHz and 77 GHz; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive |                            |
| Telecommunication | ETSI EN 302 500-1 V2.1.1 (2010-10)     | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD) using Ultra Wide Band (UWB) technology; Location Tracking equipment operating in the frequency range from 6 GHz to 8,5 GHz; Part 1: Technical characteristics and test methods   |                            |
| Telecommunication | ETSI EN 302 500-2 V2.1.1 (2010-10)     | ...; Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive   |                            |
| Telecommunication | ETSI EN 302 502 V2.1.1 (2017-03)       | Wireless Access Systems (WAS); 5,8 GHz fixed broadband data transmitting systems; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU   |                            |
| Telecommunication | ETSI EN 302 537 V2.1.1 (2016-10)       | Ultra Low Power Medical Data Service (MEDS) Systems operating in the frequency range 401 MHz to 402 MHz and 405 MHz to 406 MHz; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU   |                            |
| Telecommunication | ETSI EN 302 567 V1.2.1 (2012-01)       | Broadband Radio Access Networks (BRAN) 60 GHz Multiple-Gigabit WAS/RLAN Systems; Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive   |                            |



**B.7 Non-public radio incl. WLAN, SRD, RFID \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens   | Prüfbereich /Einschränkung |
|-------------------|--|--|----------------------------|
| Telecommunication | ETSI EN 302 729<br>V2.1.1 (2016-12)    | Short Range Devices (SRD); 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; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU   |                            |
| Telecommunication | ETSI EN 302 858<br>V2.1.1 (2016-12)    | Short Range Devices; Transport and Traffic Telematics (TTT); Radar equipment operating in the 24,05 GHz to 24,25 GHz or 24,05 GHz to 24,50 GHz range; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU   |                            |
| Telecommunication | ETSI EN 302 858-1<br>V1.3.1 (2013-11)  | Electromagnetic compatibility and Radio spectrum Matters (ERM); Road Transport and Traffic Telematics (RTTT); Automotive radar equipment operating in the 24,05 GHz up to 24,25 GHz or 24,50 GHz frequency range; Part 1: Technical characteristics and test methods   |                            |
| Telecommunication | ETSI EN 302 858-2<br>V1.3.1 (2013-11)  | Electromagnetic compatibility and Radio spectrum Matters (ERM) - Road Transport and Traffic Telematics (RTTT) - Short range radar equipment operating in the 24,05 GHz to 24,25 GHz frequency range for automotive application - Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive |                            |
| Telecommunication | ETSI EN 303 203<br>V2.1.1 (2015-11)    | Short Range Devices (SRD); Medical Body Area Network Systems (MBANSs) operating in the 2 483,5 MHz to 2 500 MHz range; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU  |                            |

**B.7 Non-public radio incl. WLAN, SRD, RFID \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand)   | Titel der Norm oder des Prüfverfahrens   | Prüfbereich /Einschränkung |
|-------------------|--|--|----------------------------|
| Telecommunication | ETSI EN 303 204 V2.1.2 (2016-09)         | Network Based Short Range Devices (SRD); Radio equipment to be used in the 870 MHz to 876 MHz frequency range with power levels ranging up to 500 mW; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU             |                            |
| Telecommunication | ETSI EN 303 348 V1.1.2 (2017-07)         | Inductive loop systems intended to assist the hearing impaired in the frequency range 10 Hz to 9 kHz; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU   |                            |
| Telecommunication | ETSI EN 303 406 V1.1.1 (2017-02)         | Short Range Devices (SRD); Social Alarms Equipment operating in the frequency range 25 MHz to 1 000 MHz; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU  |                            |
| Telecommunication | ETSI EN 303 417 V1.1.0 (2016-12)         | Wireless power transmission using technologies other than radio frequency beam in the 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz ranges; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU |                            |
| Telecommunication | ETSI EN 303 447 V1.1.1 (2017-09)         | Short Range Devices (SRD); Inductive loop systems for robotic mowers in the frequency range 0 Hz to 148,5 kHz; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU  |                            |
| Telecommunication | Australia: AS/NZS 4268:2012/ Amdt 1:2013 | Radio Equipment and systems – Short ranges devices – Limits and methods of measurements  |                            |

Anlage zur Akkreditierungsurkunde D-PL-12076-01-03

**B.7 Non-public radio incl. WLAN, SRD, RFID \***

| Fachbereich             | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens  | Prüfbereich /Einschränkung |
|-------------------------|--|---|----------------------------|
| Nicht Flexibler Bereich |  |   |                            |
| Telecommunication       | UK:<br>MPT 1349:1999 **                | Transmitters and receivers for use in the microwave bands allocated to low power applications |                            |

**B.8 DECT \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens  | Test area / reductions |
|-------------------|--|---|------------------------|
| Telecommunication | ETSI EN 300 175-1<br>V2.6.1:2015-07    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 1: Overview                          |                        |
| Telecommunication | ETSI EN 300 175-2<br>V2.6.1:2015-07    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 2: Physical Layer (PHL)              |                        |
| Telecommunication | ETSI EN 300 175-3<br>V2.6.1:2015-07    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 3: Medium Access Control (MAC) Layer |                        |
| Telecommunication | ETSI EN 300 175-4<br>V2.6.1:2015-07    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) Layer     |                        |
| Telecommunication | ETSI EN 300 175-5<br>V2.6.1:2015-07    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) Layer               |                        |
| Telecommunication | ETSI EN 300 175-6<br>V2.6.1:2015-07    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 6: Identities and addressing         |                        |
| Telecommunication | ETSI EN 300 175-7<br>V2.6.1:2015-07    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 7: Security features                 |                        |

**B.8 DECT \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens   | Test area / reductions |
|-------------------|--|--|------------------------|
| Telecommunication | ETSI EN 300 176-1<br>V2.2.1:2015-10    | Digital Enhanced Cordless Telecommunications (DECT); Test specification; Part 1: Radio   |                        |
| Telecommunication | ETSI EN 300 176-2<br>V2.2.1:2012-07    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 2: Data Link Control (DLC) layer – Portable radio Termination (PT)     |                        |
| Telecommunication | ETSI EN 300 444<br>V2.4.1:2013-07      | Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP)  |                        |
| Telecommunication | ETSI EN 300 476-2<br>V1.2.1:2000-11    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 2: Data Link Control (DLC) layer – Portable radio Termination (PT)     |                        |
| Telecommunication | ETSI EN 300 476-3<br>V1.2.1:2000-11    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 3: Medium Access Control (MAC) layer - Portable radio Termination (PT) |                        |
| Telecommunication | ETSI EN 300 476-4<br>V1.2.1:2000-11    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 4: Network (NWK) layer – Fixed radio Termination (FT)                  |                        |
| Telecommunication | ETSI EN 300 476-5<br>V1.2.1:2000-11    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 5: Data Link Control (DLC) layer – Fixed radio Termination (FT)        |                        |

**B.8 DECT \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens  | Test area / reductions |
|-------------------|--|---|------------------------|
| Telecommunication | ETSI EN 300 476-6<br>V1.2.1:2000-11    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 6: Medium Access Control (MAC) layer – Fixed radio Termination (FT) |                        |
| Telecommunication | ETSI EN 300 476-7<br>V1.2.1:2000-11    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Protocol Implementation Conformance Statement (PICS) proforma; Part 7: Physical layer   |                        |
| Telecommunication | ETSI EN 300 494-1<br>V1.4.1:2002-04    | Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP); Profile Test Specification (PTS); Part 1: Summary  |                        |
| Telecommunication | ETSI EN 300 494-2<br>V1.4.1:2002-04    | Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP); Profile Test Specification (PTS); Part 2: Profile Specific Test Specification (PSTS) – Portable radio Termination (PT)           |                        |
| Telecommunication | ETSI EN 300 494-3<br>V1.4.1:2002-04    | Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP); Profile Test Specification (PTS); Part 3: Profile Specific Test Specification (PSTS) – Fixed radio Termination (FT)              |                        |
| Telecommunication | ETSI EN 300 497-1<br>V0.3.2:1999-09    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 1: Test Suite Structure (TSS) and Test Purposes (TP) for Medium Access Control (MAC) layer                |                        |
| Telecommunication | ETSI EN 300 497-2<br>V0.3.1:1999-10    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 2: Abstract Test Suite (ATS) for Medium Access Control (MAC) layer - Portable radio Termination (PT)      |                        |

**B.8 DECT \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens   | Test area / reductions |
|-------------------|--|--|------------------------|
| Telecommunication | ETSI EN 300 497-3<br>V0.3.2:1999-09    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 3: Abstract Test Suite (ATS) for Medium Access Control (MAC) layer - Fixed radio Termination (FT)            |                        |
| Telecommunication | ETSI EN 300 497-4<br>V0.3.0:1999-10    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 4: Test Suite Structure (TSS) and Test Purposes (TP) - Data Link Control (DLC) layer                         |                        |
| Telecommunication | ETSI EN 300 497-5<br>V0.3.0:1999-10    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 5: Abstract Test Suite (ATS) - Data Link Control (DLC) layer   |                        |
| Telecommunication | ETSI EN 300 497-6<br>V0.3.2:1999-09    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 6: Test Suite Structure (TSS) and Test Purposes (TP) - Network (NWK) layer - Portable radio Termination (PT) |                        |
| Telecommunication | ETSI EN 300 497-7<br>V0.3.0:1999-10    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 7: Abstract Test Suite (ATS) for Network (NWK) layer - Portable radio Termination (PT)                       |                        |
| Telecommunication | ETSI EN 300 497-8<br>V0.3.2:1999-09    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 8: Test Suite Structure (TSS) and Test Purposes (TP) - Network (NWK) layer - Fixed radio Termination (FT)    |                        |
| Telecommunication | ETSI EN 300 497-9<br>V0.3.2:1999-09    | Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 9: Abstract Test Suite (ATS) for Network (NWK) layer - Fixed radio Termination (FT)                          |                        |

**B.8 DECT \***

| Fachbereich                | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens   | Test area / reductions |
|----------------------------|--|--|------------------------|
| Telecommunication          | ETSI EN 301 406<br>V2.2.2:2016-09      | Digital Enhanced Cordless Telecommunications (DECT); Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU                              |                        |
| Nicht Flexibler Bereich ** |  |  |                        |
| Telecommunication          | DTAAB DT.04<br>Ver. 10:1999-11         | Recommendations for the accredited conformance testing of DECT equipment; DTAAB Permanent reference Document   |                        |
| Telecommunication          | TBR 22<br>1997-01/A1:1998-03           | Radio Equipment and Systems (RES); Attachment requirements for terminal equipment for Digital Enhanced Cordless Telecommunications (DECT); Generic Access Profile (GAP) applications |                        |

**C Mobil Communication (GSM / DCS) + OTA**

**C.1 Mobile Communications \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens  | Prüfbereich /Einschränkung |
|-------------------|--|---|----------------------------|
| Telecommunication | ETSI EN 301 502<br>V12.5.1:2016-07     | Global System for Mobile communications (GSM); Base Station (BS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU                          | No base station            |
| Telecommunication | ETSI EN 301 511<br>V12.1.1:2015-06     | Global System for Mobile communications (GSM); Harmonised EN for mobile stations in the GSM 900 and GSM 1800 bands covering essential requirements under article 3.2 of the R&TTE directive (1999/5/EC) |                            |

**C.1 Mobile Communications \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens   | Prüfbereich /Einschränkung |
|-------------------|--|--|----------------------------|
| Telecommunication | ETSI EN 301 908-1<br>V11.1.1:2016-07   | IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Introduction and common requirements  | No base station            |
| Telecommunication | ETSI EN 301 908-2<br>V11.1.1:2016-07   | IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)   | No base station            |
| Telecommunication | ETSI EN 300 609-4<br>V10.2.1:2012-11   | Global System for Mobile communications (GSM); Part 4: Harmonized EN for GSM Repeaters covering the essential requirements of article 3.2 of the R&TTE Directive   |                            |
| Telecommunication | 3GPP TS 34.121<br>V13.1.0:2016-09      | 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; User Equipment (UE) conformance specification; Radio transmission and reception (FDD)  |                            |
| Telecommunication | 3GPP TS 51.010-1<br>V13.2.0:2016-09    | 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification; Part 1: Conformance specification (nur Rad. Spurious emission) |                            |
| Telecommunication | 3GPP TS 25.101<br>V14.0.0:2016-09      | 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; User Equipment (UE) radio transmission and reception (FDD)   |                            |
| Telecommunication | ETSI TS 134 124<br>V13.0.0:2016-01     | Universal Mobile Telecommunications System (UMTS); Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment Kapitel 8.2 Radiated Emissions  |                            |



**C.2 OTA \***

| Fachbereich       | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens  | Prüfbereich /Einschränkung |
|-------------------|--|---|----------------------------|
| Telecommunication | Over The Air (OTA) V3.5.2:2015-09      | CTIA - Test Plan for Mobile Station Over the Air Performance - Method of Measurement for Radiated RF Power and Receiver Performance   |                            |
| Telecommunication | 3GPP TS 25.144 V11.2.0:2012-06         | Generation Partnership Project; Technical Specification Group Radio Access Network; User Equipment (UE) and Mobile Station (MS) over the air performance requirements                         |                            |
| Telecommunication | 3GPP TS 34.114 V9.0.0:2010-03          | 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; User Equipment (UE) / Mobile Station (MS) Over The Air (OTA) antenna performance; Conformance testing |                            |
| Telecommunication | Over The Air (OTA) V2.0.2:2015-10      | CTIA + Wi Fi Alliance "Test Plan for RF Performance Evaluation of Wi-Fi Mobile Converged Devices"   | Performance                |