

# Deutsche Akkreditierungsstelle GmbH

## Anlage zur Akkreditierungsurkunde D-PL-19381-02-01 nach DIN EN ISO/IEC 17025:2005

Gültigkeitsdauer: 16.05.2019 bis 07.11.2021

Ausstellungsdatum: 16.05.2019

Urkundeninhaber:

**UL International Germany GmbH**  
**Stuttgart Test Center**  
**Hedelfinger Straße 61, 70327 Stuttgart**

Prüfungen in den Bereichen:

**Elektromagnetische Verträglichkeit (EMV) und Telekommunikation**

**Dem Prüflaboratorium ist, 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.**

Fachbereich	Norm oder Prüfverfahren / Ausgabestand	Titel der Norm oder des Prüfverfahrens	Einschränkungen zum Prüfverfahren
<b>Grundnormen</b>			
EMV	IEC 61000-3-2: 2014 EN 61000-3-2: 2014	Electromagnetic compatibility (EMC) Part 3-2: Limits for harmonic current emissions (equipment input current ≤ 16 A per phase).	Single phase equipment only
EMV	IEC 61000-3-2 ED5.0 2018-01 FprEN 61000-3-2: 2017	Electromagnetic compatibility (EMC) Part 3-2: Limits for harmonic current emissions (equipment input current ≤ 16 A per phase).	Single phase equipment only

Anlage zur Akkreditierungsurkunde D-PL-19381-02-01

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EMV	IEC 61000-3-3: 2013 EN 61000-3-3:2013	Electromagnetic compatibility (EMC) Part 3-3: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq 16A$ per phase and not subject to conditional connection	Single phase equipment only
EMV	IEC 61000-3-3: 2013 + A1: 2017 EN 61000-3-3: 2013/ FprA1: 2017	Electromagnetic compatibility (EMC) Part 3-3: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq 16A$ per phase and not subject to conditional connection	Single phase equipment only
EMV	IEC 61000-3-11:2000 EN 61000-3-11:2000	Electromagnetic compatibility (EMC) Part 3- 11: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq 75A$ and subject to conditional connection	Max. rated current limited to < 32 A; Single phase equipment only
EMV	IEC 61000-3-11:2017 prEN 61000-3-11:2016	Electromagnetic compatibility (EMC) Part 3- 11: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq 75A$ and subject to conditional connection	Max. rated current limited to < 32 A; Single phase equipment only
EMV	IEC 61000-4-2:2008 EN 61000-4-2:2009	EMC – Part 4-2: Testing and measurement techniques –Electrostatic discharge immunity test	
EMV	IEC 61000-4-3:2006 + A1:2007 + A2:2010 EN 61000-4-3:2006 + A1:2008 + A2:2010	EMC – Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test	
EMV	IEC 61000-4-4:2012 EN 61000-4-4:2012	EMC – Part 4-4: Testing and measurement techniques – Electrical fast transient/ burst immunity test	Single phase equipment only
EMV	IEC 61000-4-5:2014 EN 61000-4-5:2014	EMC – Part 4-5: Testing and measurement techniques – Surge immunity test	Single phase equipment only

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EMV	IEC 61000-4-6:2013 EN 61000-4-6:2014	EMC – Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields	Single phase equipment only
EMV	IEC 61000-4-8:2009 EN 61000-4-8:2010	EMC – Part 4-8: Testing and measurement techniques – Power frequency magnetic field immunity test	Maximum field strength 30 A/m
EMV	IEC 61000-4-11:2004 EN 61000-4-11:2004	EMC – Part 4-11: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests	Single phase equipment only
EMV	IEC 61000-4-29:2000 EN 61000-4-29:2000	EMC – Part 4-29: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	
<b>Fachgrundnormen</b>			
EMV	IEC 61000-6-1:2016 ED.3.0 EN 61000-6-1:2017	EMC – Part 6-1: Generic standards – Immunity for residential, commercial and light-industrial environments	Max. rated current limited to $\leq 16$ A
EMV	IEC 61000-6-2:2016 ED.3.0 EN 61000-6-2:2017	EMC – Part 6-2: Generic standards – Immunity standard for industrial environments	Max. rated current limited to $\leq 16$ A
EMV	IEC 61000-6-3:2006 + A1:2010 ED.2.1 EN 61000-6-3:2007 + A1:2011	EMC – Part 6-3 : Generic standards – Emission standard for residential, commercial and light-industrial environments	Except Table cl. 1.2 & 1.3
EMV	IEC 61000-6-4:2006 + A1:2010 ED.2.1 EN 61000-6-4:2007 + A1:2011	EMC – Part 6-4: Generic standards – Emission standard for industrial environments	Except Table cl. 1.1, 1.2 & 1.3
EMV	IEC 61000-6-4:2018 ED.3.0 prEN 61000-6-4	EMC – Part 6-4: Generic standards – Emission standard for industrial environments	Except Table cl. 1.1, 1.2 & 1.3

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<b>Produktfamiliennormen</b>			
EMV	CISPR 11 ED.6.0 (2015) EN 55011:2016	Industrial, scientific and medical equipment. Radio-frequency disturbance characteristics. Limits and methods of measurement	3 meter distance for radiated emissions
EMV	CISPR 11 ED.6.1 (2016) EN 55011:2016 + A1:2017	Industrial, scientific and medical equipment. Radio-frequency disturbance characteristics. Limits and methods of measurement	3 meter distance for radiated emissions
EMV	CISPR 14-1 ED.6.0 (2017) EN 55014-1: 2017	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	
EMV	EN 55014-2:1997 + A1:2001 + A2: 2009	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard	
EMV	CISPR 14-2 ED.2.0 (2015) EN 55014-2:2015	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard	
EMV	CISPR 22 ED.6.0 (2008)	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	3 meter distance for radiated emissions
EMV	EN 55022: 2010 EN 55022: 2010 +A1:2015	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	3 meter distance for radiated emissions
EMV	CISPR 24 ED.2.1 (2015) EN 55024:2010 + A1:2015	Information technology equipment - Immunity characteristics - Limits and methods of measurement	
EMV	CISPR 32 ED.1.0 (2012) EN 55032: 2012	Electromagnetic compatibility of multimedia equipment - Emission requirements	Except A7.4 and A11.2 (CVP application) 3 meter distance for radiated emissions

Anlage zur Akkreditierungsurkunde D-PL-19381-02-01

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EMV	CISPR 32 ED.2.0 (2015) EN 55032: 2015	Electromagnetic compatibility of multimedia equipment - Emission Requirements	Except A7.4 and A11.2 (CVP application) 3 meter distance for radiated emissions No FAR testing
EMV	CISPR 35 ED.1.0 (2016) EN 55035: 2017	Electromagnetic compatibility of multimedia equipment - Immunity requirements	
EMV	EN 50130-4:2011-06 + A1:2014	Alarm systems – Part 4: Electromagnetic compatibility – Product family standard: Immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems	Single phase equipment only
EMV	IEC 62599-2 ED1.0 (2010-05)	Alarm systems – Part 2: Electromagnetic compatibility – Immunity requirements for components of fire, and security alarm systems	Single phase equipment only
EMV	IEC 61326-1:2012 EN 61326-1:2013	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements	3 meter distance for radiated emissions
EMV	IEC 61326-2-1:2012 EN 61326-2-1:2013	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-1: Particular requirements – Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications	3 meter distance for radiated emissions

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EMV	IEC 61326-2-2:2012 EN 61326-2-2:2013	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-1: Particular requirements – Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems	3 meter distance for radiated emissions
<b>EMV im TK-Bereich (R&amp;TTE Art. 3.1b/ RED 3.1b)</b>			
EMC (radio equipment)	EN 301 489-1 V2.1.1 (2017-02)	Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements Harmonised Standard covering the essential requirements of article 6 of Directive 2014/30/EU	
EMC (radio equipment)	Draft EN 301 489-1 V2.2.0 (2017-03)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU	
EMC (radio equipment)	EN 301 489-3 V1.6.1 (2013)	Electromagnetic compatibility and Radio spectrum Matters (ERM); EMC standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz	
EMC (radio equipment)	Final Draft ETSI EN 301 489-3 V2.1.1 (2017-03)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	

Anlage zur Akkreditierungsurkunde D-PL-19381-02-01

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EMC (radio equipment)	EN 301 489-7 V1.3.1 (2005)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)	
EMC (radio equipment)	EN 301 489-17 V2.2.1 (2012)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electra Magnetic Compatibility (EMC) standard for radio equipment; Part 17: Specific conditions for Broadband Data Transmission Systems	
EMC (radio equipment)	Draft ETSI EN 301 489-17 V3.2.0 (2017-03)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC (radio equipment)	EN 301 489-24 V1.5.1 (2010)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 24: Specific conditions for IMT-2000 CDMA Direct Spread (UTRA and E-UTRA) for Mobile and portable (UE) radio and ancillary equipment	
EMC (radio equipment)	EN 301 489-34 V1.4.1 (2012)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 34: Specific conditions for External Power Supply (EPS) for mobile phones	

Anlage zur Akkreditierungsurkunde D-PL-19381-02-01

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EMC (radio equipment)	Final draft ETSI EN 301 489-34 V2.1.1 (2017-04)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 34: Specific conditions for External Power Supply (EPS) for mobile phones; Harmonised Standard covering the essential requirements of article 6 of Directive 2014/30/EU	
EMC (radio equipment)	Draft ETSI EN 301 489-52 V1.1.0 (2016-11)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication Mobile and portable (UE) radio and ancillary equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU.	
<b>EMV Kraftfahrzeuge (Automotive)</b>			
EMV	ISO 7637-2:2004 + A1:2008 ISO 7637-2:2011	Road vehicles – Electrical disturbances from conduction and coupling – Part 2: Electrical transient conduction along supply lines	except pulses 5a and 5b
EMV	ISO 7637-3:2007 ISO 7637-3 ED3.0 (2016)	Road vehicles – Electrical disturbances from conduction and coupling – Part 3: Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines	Only CCC method
EMV	CISPR 25 ED.3.0 (2008) EN 55025:2008 CISPR 25 ED4.0 (2016-10) EN 55025: 2017-02	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers	TEM-cell method excluded
<b>Funkanwendungen (R&amp;TTE Art. 3.2/ RED Art. 3.2)</b>			
Tele-kommunikation	EN 300 220-1 V3.1.1 (2017)	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 1: Technical characteristics and methods of measurement	



**Anlage zur Akkreditierungsurkunde D-PL-19381-02-01**

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Tele- kommunikation	EN 300 220-2 V3.1.1 (2017)	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 Directive 2014/53/EU for non specific radio equipment	
Tele- kommunikation	Draft EN 300 220-2 V3.2.0 (2017)	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 2: Harmonised Standard for access to radio spectrum for non specific radio equipment	
Tele- kommunikation	EN 300 220-3-1 V2.1.1 (2016)	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)	
Tele- kommunikation	EN 300 220-3-2 V1.1.1 (2017)	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	
Tele- kommunikation	EN 300 220-4 V1.1.1 (2017)	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 Directive 2014/53/EU; Metering devices operating in designated band 169,400 MHz to 169,475 MHz	

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Tele- kommunikation	EN 300 328 V2.1.1 (2016)	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering the essential requirements of article 3.2 of Directive 2014/53/EU	
Tele- kommunikation	Draft EN 300 328 V2.2.0 (2017)	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard for access to radio spectrum	
Tele- kommunikation	EN 300 330 V2.1.1 (2017)	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 Directive 2014/53/EU	
Tele- kommunikation	EN 300 440 V2.1.1 (2017)	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 Directive 2014/53/EU	
Tele- kommunikation	Draft EN 300 440 V2.2.0 (2017)	Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonised Standard for access to radio spectrum	
Tele- kommunikation	ETSI EN 301 511 V9.0.2 (2003)	Global System for Mobile communications (GSM); Harmonized EN for mobile stations in the GSM 900 and GSM 1800 bands covering essential requirements of article 3.2 of the R&TTE directive (1999/5/EC)	Only spurious emissions

**Anlage zur Akkreditierungsurkunde D-PL-19381-02-01**

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Tele-kommunikation	ETSI EN 301 511 V12.5.1 (2017)	Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Only spurious emissions
Tele-kommunikation	ETSI EN 301 893 V2.1.1 (2017)	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
Tele-kommunikation	ETSI EN 301 908 V7.1.1 (2015)	IMT cellular networks; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive; Part 1: Introduction and common requirements	Only spurious emissions
Tele-kommunikation	ETSI EN 301 908-1 V11.1.1 (2016)	IMT cellular networks; Harmonized Standards covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Introduction and common requirements	Only spurious emissions
Tele-kommunikation	ETSI EN 301 908-2 V11.1.2 (2017)	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)	Only spurious emissions
Tele-kommunikation	ETSI EN 301 908-13 V11.1.2 (2017)	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	Only spurious emissions
Tele-kommunikation	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.	

**Anlage zur Akkreditierungsurkunde D-PL-19381-02-01**

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Tele- kommunikation	Draft ETSI EN 302 208 V3.2.0 (2018)	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 for access to radio spectrum	
Tele- kommunikation	ETSI EN 302 502 V1.2.1 (2008-07)	Broadband Radio Access Networks (BRAN); 5,8 GHz fixed broadband data transmitting systems; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive.	
Tele- kommunikation	Draft ETSI EN 302 502 V2.1.3 (2017-07)	Wireless Access Systems (WAS); 5,8 GHz fixed broadband data transmitting systems; Harmonised Standard for access to radio spectrum	
Tele- kommunikation	ETSI EN 302 502 V2.1.1 (2017)	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	
Tele- kommunikation	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.	

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<b>Verfahren ausländischer Normungsorganisatoren</b>			
EMV / USA	ANSI C 63.4-2003 ANSI C 63.4-2009 ANSI C 63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz  Unintentional Radiators (FCC Part 15, Subpart B) <ul style="list-style-type: none"> <li>• CB Receiver</li> <li>• Super-regenerative Receiver</li> <li>• All other receivers subject to part 15</li> <li>• TV interface device</li> <li>• Cable system terminal device</li> <li>• Class B personal computers and peripherals</li> <li>• CPU boards and internal power supplies used with Class B personal computers</li> <li>• Class B personal computers assembled using authorized CPU boards or power supplies</li> </ul>	f <sub>max</sub> = 40 GHz
TK+EMV / USA	FCC MP-5:1986-02	FCC Methods of Measurements of Radio Noise Emissions from Industrial, Scientific, and Medical Equipment  Stand alone or in combination with: CFR 47 FCC Part 18, Industrial Scientific and Medical Equipment <ul style="list-style-type: none"> <li>• Consumer ISM equipment</li> </ul>	f <sub>max</sub> = 40 GHz
TK / USA	ANSI C 63.10-2009 ANSI C 63.10-2013	American National Standard for Testing of Unlicensed Wireless Devices Stand alone or in combination with: CFR 47 FCC Part 15 Intentional Radiators below 26.5 GHz KDB 789033  CFR 47 FCC Part 15 Intentional Radiators above 26.5 GHz  CFR 47 FCC Part 15 - Subpart E Dynamic Frequency Selection (DFS) Devices <ul style="list-style-type: none"> <li>• KDB 905462</li> </ul>	f <sub>max</sub> = 40 GHz

Fachbereich	Norm oder Prüfverfahren / Ausgabestand	Titel der Norm oder des Prüfverfahrens	Einschränkungen zum Prüfverfahren
TK / USA	ANSI/TIA-603-D(2010) ANSI/TIA-603-E (2016) TIA-102.CAAA-D(2013) TIA-102.CAAA-E(2016)	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards Project 25 Digital C4FM/CQPSK Transceiver Measurement Methods  <b>Licensed Radio Service Equipment</b> <ul style="list-style-type: none"> <li>• Commercial Mobile Services <ul style="list-style-type: none"> <li>○ Part 22 (cellular)</li> <li>○ Part 24</li> <li>○ Part 25(non-microwave)</li> <li>○ Part 27</li> <li>○ KDB Publication 971168</li> </ul> </li> </ul> <b>Licensed Radio Service Equipment</b> <ul style="list-style-type: none"> <li>• General Mobile Radio Services <ul style="list-style-type: none"> <li>○ Part 22 (non-cellular)</li> </ul> </li> </ul> <b>Licensed Radio Service Equipment</b> <ul style="list-style-type: none"> <li>• Microwave Radio Services <ul style="list-style-type: none"> <li>○ Part 27</li> </ul> </li> </ul>	
TK+EMC / USA	FCC 47 CFR Part 2	Frequency Allocations and Radio Treaty Matters General Rules and Regulations	
Industry Canada	RSS – 210	License-exempt Radio Apparatus (All Frequency Bands): Category I Equipment	
Industry Canada	RSS – 247	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and License-Exempt Local Area Network (LE-LAN) Devices	
Industry Canada	RSS-Gen, Issue 4 November 2014	General Requirements for Compliance of Radio Apparatus.	