



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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ELECTRICAL (EMC)

Valid to: January 31, 2011

Certificate Number: 0803.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following Emissions, Immunity, Wireless and Military tests for electrical equipment:

The following test sites are accredited for the test descriptions as indicated below:

Site A	EMC Emissions and Transmitter Characteristics Testing
Site C	EMC Emissions (EU Only) EMC Immunity (Susceptibility) Testing, and Military / Automotive / Aerospace Emissions and Immunity Testing
Site D	EMC Emissions and Transmitter Characteristics Testing

The following test standards are accredited to the indicated test site(s):

AUSTRALIA / NEW ZEALAND

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
AS/NZS 4245.1	A, C & D	Information Technology - Telecommunications and information Exchange Between Systems - Open Systems Interconnection - Transport Protocol Identification Mechanism
AS/NZS 4251.1	A & D	Electromagnetic Compatibility (EMC) - Generic Emission Standard - Residential, Commercial and Light Industry
AS/NZS 4251.2	A & D	Electromagnetic Compatibility (EMC) - Generic Emission Standard - Industrial Environments
AS/NZS 61000-6-1	C	Electromagnetic Compatibility (EMC) - Generic Standards. Immunity for Residential, Commercial and Light Industrial Environments
AS/NZS 61000-6-2	C	Electromagnetic Compatibility (EMC) - Part 6-2 Generic Standards Immunity for Industrial Environments
AS/NZS 61000-6-3	A & D	Electromagnetic Compatibility (EMC) Part 6-3 Emission Standard for Residential, Commercial and Light Industrial Environments
AS/NZS 61000-6-4	A & D	Electromagnetic Compatibility (EMC) Part 6-4 Emission Standard for Industrial Environments

(A2LA Cert. No. 0803.02) Revised 08/09/2010

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AUSTRALIA / NEW ZEALAND (CONTINUED)

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
AS/NZS 4268	A & D	Radio Equipment and Systems - Short Range Devices - Limits and Methods of Measurement
AS/NZS 4448	A & D	Limits and Methods of Measurement of Radio Disturbance Characteristics for the Protection of Receivers used on Board Vehicles
AS/NZS CISPR 11	A & D	Industrial, Scientific and Medical (ISM) Radio-Frequency Equipment - Electromagnetic Disturbance Characteristics - Limits and Methods of Measurement
AS/NZS CISPR 14.1	A & D	Electromagnetic Compatibility - Requirements for Household Appliances, Electric Tools and Similar Apparatus - Emission
AS/NZS CISPR 14.2	C	Electromagnetic Compatibility - Requirements for Household Appliances Electric Tools and Similar Apparatus - Immunity - Product Family Standard
AS/NZS CISPR 22 (Limited to 1GHz)	A	Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement
AS/NZS CISPR 22	D	Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement

TELCORDIA / BELLCORE

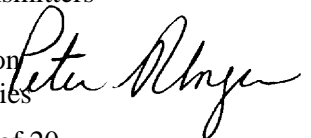
<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
GR-499-CORE	A, C & D	Transport Systems Generic Requirements (TSGR) Common Requirements [Sections 14.1, 14.2, 4.3]
GR-1089-CORE	A, C & D	Electromagnetic compatibility and electrical safety generic criteria for network telecommunication equipment [Section 2, 3 & 4] [Excluding Section 4.7, First and Second Level AC power fault tests]

CANADA

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
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*** Indicates on-site test services available for indicated standards**

BETS-1*	A & D	Technical Standards and Requirements for Low Power Announce Transmitters in the Frequency Bands 525-1,705 KHz and 88-107.5 MHz
BETS-4*	A & D	Technical Standards and Requirements for Television Broadcasting Transmitters
BETS-5*	A & D	Technical Standards and Requirements for AM Broadcasting Transmitters
BETS-6*	A & D	Technical Standards and Requirements for FM Broadcasting Transmitters
BETS-7	A & D	Technical Standards and Requirements for Radio Apparatus Capable of Receiving Broadcasting
BETS-8*	A & D	Technical Standards and Requirements for FM Transmitters Operating in Small Remote Communities
BETS-9	A & D	Technical Standards and Requirements for Television Transmitters Operating in Small Remote Communities



CANADA (CONTINUED)

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
ICES 001	A & D	Industrial, Scientific and Medical (ISM) Radio Frequency Generators
ICES 003	A & D	Digital Apparatus
ICES 004	A & D	Alternating Current High Voltage Power Systems
ICES 005	A & D	Radio Frequency Lighting Devices
ICES 006	A & D	AC Wire Carrier Current Devices (Unintentional Radiators)
RSS-102	A & D	Evaluation Procedure for Mobile and Portable Radio Transmitters With Respect to Health Canada's Safety Code 6 for Exposure of Humans to Radio Frequency Fields
RSS-111	A & D	Broadband Public Safety Equipment Operating in the Band 4940-4990 MHz
RSS-112	A & D	Land Mobile and Fixed Equipment Operating in the Band 1670-1675 MHz
RSS-117	A & D	Land and Coast Station Transmitters using A1, A2, A3, A2H, or A3H Emissions Operating in the 200 - 535 KHz Band
RSS-118	A & D	Land and Subscriber Stations: Voice, Data and Tone Modulated, Angle Modulation Radiotelephone Transmitters and Receivers Operating in the Cellular Mobile Bands 824 - 849 MHz and 869 - 894 MHz
RSS-119	A & D	Land Mobile and Fixed Radio Transmitters and Receivers, 27.41 to 960 MHz
RSS-123	A & D	Low Power Licensed Radiocommunication Devices
RSS-125	A & D	Land Mobile and Fixed Radio Transmitters and Receivers, 1.705 to 50.0 MHz, Primarily Amplitude Modulated
RSS-127	A & D	Air-Ground Equipment Operating in the Bands 849-851 MHz and 894-896 MHz
RSS-129	A & D	800 MHz Dual-Mode CDMA Cellular Telephones
RSS-131	A & D	Zone Enhancers for the Land Mobile Service
RSS-132	A & D	800 MHz Cellular Telephones Employing New Technologies
RSS-133	A & D	2 GHz Personal Communication Services
RSS-134	A & D	900 MHz Narrowband Personal Communications Services
RSS-135	A & D	Digital Scanner Receivers
RSS-136	A & D	Land and Mobile Station Radiotelephone Transmitters and Receivers Operating in the 26.960 - 27.410 MHz General Radio Service Band
RSS-137	A & D	Location and Monitoring Service (902 - 928 MHz)
RSS-138	A & D	Commercial Shipborne Radar in the 2900 - 3100 MHz, 5470 - 5650 MHz and 9225 - 9500 MHz Bands
RSS-139	A & D	Advanced Wireless Services Equipment Operating in the Bands 1710 - 1755 MHz and 2110 - 2155 MHz
RSS-141	A & D	Aeronautical Radiocommunication Equipment in the Frequency Band 117.975 - 137 MHz
RSS-142	A & D	Narrowband Multipoint Communication Systems in the 1427 - 1430 MHz and 1493.5 - 1496.5 MHz Bands



CANADA (CONTINUED)

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
RSS-170	A & D	Satellite Mobile Earth Stations
RSS-181	A & D	Coast and Ship Station Single Sideband Radiotelephone Transmitters and Receivers Operating in the 1 605 - 28 000 KHz Band
RSS-182	A & D	Maritime Radio Transmitters and Receivers in the Band 156 - 162.5 MHz
RSS-188	A & D	Global Maritime Distress and Safety System (GMDSS)
RSS-191	A & D	Local Multipoint Communication Systems in the 28 GHz Band; Point-to-Point and Point-to-Multipoint Broadband Communication Systems in the 24 GHz and 38 GHz Bands
RSS-192	A & D	Fixed Wireless Access Equipment Operating in the Band 3450 - 3650 MHz
RSS-193	A & D	Multipoint and Point-to-Point Communication Systems (MCS) in the Fixed Service Operating in the 2150 - 2160 MHz, 2500-2596 MHz and 2686 - 2690 MHz Bands
RSS-194	A & D	Fixed Wireless Access Equipment Operating in the Band 953-960 MHz
RSS-195	A & D	Wireless Communications Service Equipment Operating in the Bands 2305 - 2320 MHz and 2345 - 2360 MHz
RSS-196	A & D	Point-to-Multipoint Broadband Equipment Operating in the Bands 512-608 MHz and 614-698 MHz for Rural Remote Broadband Systems (RRBS) (TV Channels 21 to 51)
RSS-197	A & D	Wireless Broadband Access Equipment Operating in the Band 3650-3700 MHz
RSS-199	A & D	Broadband Radio Service (BRS) Equipment Operating in the Band 2500-2690 MHz
RSS-210	A & D	Low Power License-Exempt Radiocommunication Devices (All Frequency Bands)
RSS-213	A & D	2 GHz License - Exempt Personal Communications Service Devices (PCS)
RSS-215	A & D	Analogue Scanner Receivers
RSS-220	A & D	Devices Using Ultra-Wideband (UWB) Technology
RSS-243	A & D	Active Medical Implant Communications System Devices in the 402-405 MHz Band
RSS-287	A & D	Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD)
RSS-310	A & D	Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category II Equipment
RSS-GEN	A & D	General Requirements and Information for the Certification of Radiocommunication Equipment



EUROPEAN UNION

STANDARD

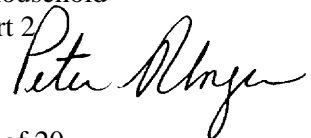
**CAPABLE
SITE(S)**

DESCRIPTION OF STANDARD

EMC Directive 2004/108/EC Standards

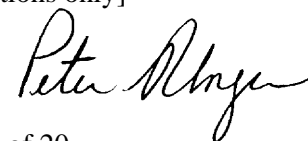
*** Indicates on-site test services available for indicated standards**

EN 12015	A & D	Electromagnetic Compatibility - Product Family Standard For Lifts, Escalators And Passenger Conveyors - Emission
EN 12016	C	Electromagnetic Compatibility - Product Family Standard For Lifts, Escalators And Passenger Conveyors - Immunity
EN 300 386	A, C & D	Electromagnetic compatibility and radio spectrum matters (ERM); Telecommunication network equipment; Electromagnetic compatibility (EMC) requirements
EN 50065-1	A & D	Specification for signaling on low-voltage electrical installations in the frequency range 3 KHz to 148.5 KHz - Part 1 General requirements, frequency bands and electromagnetic disturbances
EN 50065-2-1,2,3	C	Specification for signaling on low-voltage electrical installations in the frequency range 3 KHz to 148.5 KHz - Part 2 Immunity requirements for mains communications equipment and systems operating in the range of frequencies 95 kHz to 148,5 kHz
EN 50083-2	A, C & D	Cable networks for television signals, sound signals and interactive services - Part 2 Electromagnetic compatibility for equipment
EN 50121-1	A, C & D	Railway applications - Electromagnetic compatibility - Part 1 General
EN 50121-3-2	A, C & D	Railway applications - Electromagnetic compatibility - Part 3-2 Rolling stock - Apparatus
EN 50121-4	A, C & D	Railway applications - Electromagnetic compatibility - Part 4 Emission and immunity of the signalling and telecommunications apparatus
EN 50130-4	C	Alarm systems - Part 4 Electromagnetic compatibility - Product family standard: immunity requirements for components of fire, intruder and social alarm systems
EN 50270	A, C & D	Electromagnetic compatibility - Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen
EN 50370-1	A & D	Electromagnetic compatibility (EMC) - Product family standard for machine tools - Part 1 Emissions.
EN 50370-2	C	Electromagnetic Compatibility (EMC) - Product family standard for machine tools - Part 2 Immunity
EN 55011	A & D	Industrial, scientific and medical (ISM) radio-frequency equipment - radio disturbance characteristics - limits and methods of measurement
EN 55013	A & D	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement
EN 55014-1	A & D	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 Emission
EN 55014-2	C	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2 Immunity - Product family standard



EUROPEAN UNION (CONTINUED)

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
EN 55015	A & D	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 55020	C	Sound and television broadcast receivers and associated equipment - Immunity characteristics - Limits and methods of measurement
EN 55022*	D	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
EN 55022 (2006)*	A	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement [omits amendment(s)]
EN 55024	C	Information technology equipment - Immunity characteristics - Limits and methods of measurement
EN 55103-1	A & D	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Emission
EN 55103-2	C	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Immunity
EN 60730-1	A, C & D	Automatic Electrical Controls for Household and Similar Use- Part 1 General Requirements [EMC Sections Only]
EN 60730-2-5 thru 9, 11, 13,14,18	A, C & D	Automatic electrical controls for household and similar use - Part 2 Particular requirements
EN 60945	A, C & D	Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results
EN 60974-10	A, C & D	Arc welding equipment - Part 10 Electromagnetic compatibility (EMC) requirements
EN 61000-3-2	A, C & D	Electromagnetic compatibility (EMC) - Part 3 Limits - Section 2 Limits for harmonic current emissions (equipment input current less than/equal to 16 A per phase)
EN 61000-3-3	A, C & D	Electromagnetic compatibility (EMC) - Part 3 Limits - Section 3 Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current less than or equal to 16 A
EN 61000-6-1	C	Electromagnetic compatibility (EMC) generic standards. Immunity for residential, commercial and light-industrial environments
EN 61000-6-2	C	Electromagnetic compatibility (EMC) - Part 6-2 Generic standards immunity for industrial environments
EN 61000-6-3	A & D	Electromagnetic compatibility (EMC) Part 6-3 Emission standard for residential, commercial and light-industrial environments
EN 61000-6-4	A & D	Electromagnetic compatibility (EMC) Part 6-4 Emission standard for industrial environments
EN 61131-2	A, C & D	Programmable controllers Part 2 Equipment requirements and tests [EMC sections only]
EN 61204-3	A, C & D	Low voltage power supplies, d.c. output - Part 3 Electromagnetic compatibility (EMC)



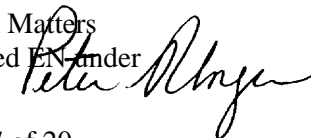
EUROPEAN UNION (CONTINUED)

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
EN 61326-1	A, C & D	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1 General requirements
EN 61326-2-1 thru 5	A, C & D	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1 Particular requirements - Test configurations, operational conditions and performance criteria
EN 61547	C	Equipment for general lighting purposes - EMC immunity requirements
EN 62040-2	A, C & D	Uninterruptible power systems (UPS) - Part 2 Electromagnetic compatibility (EMC) requirements
EN 62061	A, C & D	Safety of machinery – functional safety related electrical, electronic & programmable control systems (<i>note: only capable of performing EMC testing for section 6.4.3, ref Annex E</i>)

R&TTE Directive 99/5/EC Standards
(excluding article 3.1a, safety provisions)

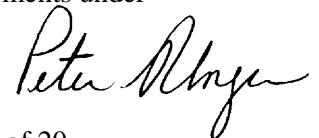
*** Indicates on-site test services available for indicated standards**

EN 300 086-2	A & D	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 2 Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
EN 300 113-2	A & D	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 2 Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
EN 300 162-2	A & D	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Radiotelephone transmitters and receivers for the maritime mobile service operating in VHF bands - Part 2 Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive
EN 300 162-3	A & D	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Radiotelephone transmitters and receivers for the maritime mobile service operating in VHF bands - Part 3 Harmonized EN covering essential requirements of article 3.3 (e) of the R&TTE Directive
EN 300 219-2	A & D	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Land Mobile Service - Radio equipment transmitting signals to initiate a specific response in the receiver - Part 2 Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
EN 300 220-2	A & D	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Short Range Devices (SRD) - Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW - Part 2 Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
EN 300 224-2	A & D	Electromagnetic compatibility and Radio spectrum Matters (ERM) - On-site paging service - Part 2 Harmonized EN under article 3.2 of the R&TTE Directive



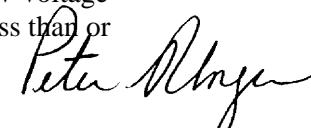
EUROPEAN UNION (CONTINUED)

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
EN 300 328	A & D	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Wideband Transmission systems - Data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques - Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
EN 300 330-2	A & D	Electromagnetic compatibility and Radio spectrum Matters (ERM) - 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 - Part 2 Harmonized EN under article 3.2 of the R&TTE Directive
EN 300 422-2	A & D	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Wireless microphones in the 25 MHz to 3 GHz frequency range - Part 2 Harmonized EN under article 3.2 of the R&TTE Directive
EN 300 433-2	A & D	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Land Mobile Service - Double Side Band (DSB) and/or Single Side Band (SSB) amplitude modulated citizen's band radio equipment - Part 2 Harmonized EN covering essential requirements under article 3.2 of R&TTE Directive
EN 300 440-2	A & D	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 2 Harmonized EN under article 3.2 of the R&TTE Directive
EN 300 454-2	A & D	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Wide band audio links - Part 2 Harmonized EN under article 3.2 of the R&TTE Directive
EN 301 357-2	A & D	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Cordless audio devices in the range 25 MHz to 2 000 MHz - Consumer radio microphones and in-ear monitoring systems operating in the CEPT harmonized band 863 MHz to 865 MHz - Part 2 Harmonized EN under article 3.2 of the R&TTE Directive
EN 301 489-1	A, C & D	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
EN 301 489-2 thru 32	A, C & D	Electromagnetic compatibility and Radio spectrum Matters (ERM) - ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Parts 2-32, specific conditions
EN 301 502	A & D	Harmonized EN for Global System for Mobile communications (GSM) - Base Station and Repeater equipment covering essential requirements under article 3.2 of the R&TTE directive
EN 301 753	A & D	Fixed Radio Systems - Multipoint equipment and antennas; Generic harmonized standard for multipoint digital fixed radio systems and antennas covering the essential requirements under article 3.2 of the Directive 1999/5/EC



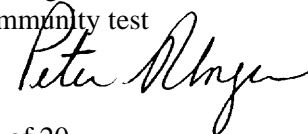
EUROPEAN UNION (CONTINUED)

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
EN 301 840-2	A & D	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Digital wireless microphones operating in the CEPT harmonized band 1785 MHz to 1 800 MHz - Part 2 Harmonized EN under article 3.2 of the R&TTE Directive
EN 301 893	A & D	Broadband Radio Access Networks (BRAN) - 5 GHz hiGH performance RLAN - Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive
EN 301 908-1 thru 12	A & D	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks
EN 302 064-2	A & D	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Wireless Video Links (WVL) operating in the 1,3 GHz to 50 GHz frequency band - Part 2 Harmonized EN under article 3.2 of the R&TTE Directive
EN 302 065	C	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Ultra WideBand (UWB) technologies for communication purposes - Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive
EN 302 208-2	A & D	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W - Part 2 Harmonised EN under article 3.2 of the R&TTE Directive
EN 302 291-2	A & D	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Close Range Inductive Data Communication equipment operating at 13,56 MHz; Part 2: Harmonised EN under article 3.2 of the R&TTE Directive
EN 302 500-2	A & D	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Short Range Devices (SRD) using Ultra WideBand (UWB) technology -Location tracking equipment operating in the frequency range from 6 GHz to 8,5 GHz - Part 2 Harmonized EN covering essential requirements of Article 3.2 of the R&TTE Directive
EN 302 502	A & D	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
EN 55022*	D	Information technology equipment - radio disturbance characteristics - limits and methods of measurement
EN 55022 (2006)*	A	Information technology equipment - radio disturbance characteristics - limits and methods of measurement [omits amendment A1]
EN 61000-3-2	A, C & D	Electromagnetic compatibility (EMC) - Part 3 Limits - Section 2 Limits for harmonic current emissions (equipment input current less than/equal to 16 A per phase)
EN 61000-3-3	A, C & D	Electromagnetic compatibility (EMC) - Part 3 Limits - Section 3 Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current less than or equal to 16 A



EUROPEAN UNION (CONTINUED)

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
EN 61000-6-1	C	Electromagnetic compatibility (EMC) generic standards. Immunity for residential, commercial and light-industrial environments
EN 61000-6-2	C	Electromagnetic compatibility (EMC) - Part 6-2 Generic standards immunity for industrial environments
EN 61000-6-3	A & D	Electromagnetic compatibility (EMC) Part 6-3 Emission standard for residential, commercial and light-industrial environments
EN 61000-6-4	A & D	Electromagnetic compatibility (EMC) Part 6-4: emission standard for industrial environments
Medical Directive 93/42/EEC Standards		
EN 60601-1-2	A, C & D	Medical electrical equipment - Part 1-2 General requirements for safety - Collateral standard: Electromagnetic compatibility - Requirements and tests
EN 60601-2-2	A, C & D	Medical electrical equipment – Part 2-2 Particular requirements for the safety of high frequency surgical equipment
EN 60601-2-4	A, C & D	Medical electrical equipment - Part 2-4 Particular requirements for the safety of cardiac defibrillators [EMC sections only]
EN 60601-2-10	A, C & D	Medical electrical equipment - Part 2.10 Particular requirements for the safety of nerve and muscle stimulators [EMC sections only]
EN 60601-2-12	A, C & D	Medical electrical equipment - Part 2-12 Particular requirements for the safety of lung ventilators - Critical care ventilators [EMC sections only]
EN 60601-2-22	A, C & D	Medical electrical equipment - Part 2 Particular requirements for the safety of diagnostic and therapeutic laser equipment [EMC sections only]
EN 60601-2-24	A, C & D	Medical electrical equipment - Part 2-24 Particular requirements for the safety of infusion pumps and controllers [EMC sections only]
EN 60601-2-34	A, C & D	Medical electrical equipment - Part 2-34 Particular requirements for the safety, including essential performance, of invasive blood pressure monitoring equipment [EMC sections only]
EN 60601-2-37	A, C & D	Medical electrical equipment - Part 2-37 particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment [EMC sections only]
EN 61326-2-6	A, C & D	Particular requirements – in vitro diagnostic medical equipment
Other Standards		
EN 12184	A, C & D	Electrically Powered Wheelchairs, Scooters And Their Chargers - Requirements And Test Methods [Section 9.8 Only]
EN 50204	C	Radiated electromagnetic field from digital radio telephones - Immunity test (900MHz 5MHz Keyed Carrier)
EN 61000-4-2*	C	Electromagnetic compatibility (EMC) - Part 4-2 Testing and measurement techniques - Electrostatic discharge immunity test



EUROPEAN UNION (CONTINUED)

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
EN 61000-4-3	C	Electromagnetic compatibility (EMC) - Part 4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
EN 61000-4-4*	C	Electromagnetic compatibility (EMC) - Part 4-4 Testing and measurement techniques - Electrical fast transient/burst immunity test
EN 61000-4-5*	C	Electromagnetic compatibility (EMC) - Part 4-5 Testing and measurement techniques - Surge immunity test
EN 61000-4-6*	C	Electromagnetic compatibility (EMC) - Part 4-6 Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
EN 61000-4-8*	C	Electromagnetic compatibility (EMC) - Part 4 Testing and measurement techniques - Section 8 Power frequency magnetic field immunity test basic EMC publication
EN 61000-4-11*	C	Electromagnetic compatibility (EMC) - Part 4 Testing and measuring techniques - Section 11 Voltage dips, short interruptions and voltage variations immunity tests
Directives – Old Approach		
75/322/EEC - 2000/2/EC	A, C & D	On the suppression of radio interference produced by agricultural or forestry tractors (electromagnetic compatibility)
72/245/EEC - 2006/28/EC	A, C & D	On the approximation of the laws of the Member States relating to the suppression of radio interference produced by spark-ignition engines fitted to motor vehicles

IDA SINGAPORE

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
IDA TS CT-CTS	A & D	Technical specification for cordless telephone and cordless telecommunication systems [excluding dect and pbs]
IDA TS SRD	A & D	Technical specification for short range devices
IDA TS AR	A & D	Technical specification for amateur radio equipment
IDA TS 3G-BS	A & D	Technical specification for imt-2000 third generation (3g) cellular base station and repeater system
IDA TS WBA	A & D	Technical specification for wireless broadband access (WBA) equipment
IDA TS LMR	A & D	Technical specification for land mobile radio equipment
IDA TS RPG	A & D	Technical specification for radio pagers (for public paging service)
IDA TS UWB	A, C & D	Technical Specification for Ultra Wideband (UWB) Devices
IDA TS EMC	A, C & D	EMC requirements for telecommunication equipment
IDA TS GMPCS	A, C & D	Technical specification for Global Mobile Personal Communication by Satellite (GMPCS) Terminals
IDA TS GSM-MT	A, C & D	Technical specification for GSM Mobile Terminals
IDA TS GSM-BS	A, C & D	Technical specification for GSM base station and repeater equipment
IDA TS 3G-MT	A, C & D	Technical specification for IMT-2000 third generation cellular mobile terminals



**INTERNATIONAL
STANDARD**

**CAPABLE
SITE(S)**

DESCRIPTION OF STANDARD

* Indicates on-site test services available for indicated standards

CISPR 11	A & D	Industrial, scientific and medical (ISM) radio-frequency equipment - electromagnetic disturbance characteristics - Limits and methods of measurement
CISPR 13	A & D	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement
CISPR 14-1	A & D	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 Emission
CISPR 14-2	C	Electromagnetic compatibility – Requirements for household appliances, electric tools, and similar apparatus – Part 2 Immunity-Product Family Standard
CISPR 15	A & D	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
CISPR 20	C	Sound and television broadcast receivers and associated equipment - Immunity characteristics - Limits and methods of measurement
CISPR 22*	D	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
CISPR 22(2006)*	A	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
CISPR 22(1997)	A & D	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
CISPR 25	A, C & D	Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices - Limits and methods of measurement
IEC 60601-1-2	A, C & D	Medical electrical equipment - Part 1 General requirements for safety 2 - Collateral standard - electromagnetic compatibility - requirements and tests
IEC 60533	A, C & D	Electromagnetic compatibility of electrical and electronic installations in ships
IEC 60601-2-2	A, C & D	Medical electrical equipment – Part 2-2 Particular requirements for the safety of high frequency surgical equipment
IEC 60945	A, C & D	Maritime navigation and radiocommunication equipment and systems -general requirements - methods of testing and required test results
IEC 61000-4-2*	C	Electromagnetic compatibility (EMC) - Part 4-2 Testing and measurement techniques - Electrostatic discharge immunity test
IEC 61000-4-3	C	Electromagnetic compatibility (EMC) - Part 4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
IEC 61000-4-4*	C	Electromagnetic compatibility (EMC) - Part 4-4 Testing and measurement techniques - Electrical fast transient/burst immunity test
IEC 61000-4-5*	C	Electromagnetic compatibility (EMC) - Part 4-5 Testing and measurement techniques - Surge immunity test

Peter Mlynar

INTERNATIONAL (CONTINUED)

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
IEC 61000-4-6*	C	Electromagnetic compatibility (EMC) - Part 4-6 Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
IEC 61000-4-8*	C	Electromagnetic compatibility (EMC) - Part 4 Testing and measurement techniques - Section 8 Power frequency magnetic field immunity test basic EMC publication
IEC 61000-4-11*	C	Electromagnetic compatibility (EMC) - Part 4 Testing and measuring techniques - Section 11 Voltage dips, short interruptions and voltage variations immunity tests
IEC 61131-2	A, C & D	Programmable controllers Part 2 Equipment requirements and tests [EMC sections only]
IEC 61326-1	A, C & D	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1 General requirements
IEC 61326-2-1 thru 5	A, C & D	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1 Particular requirements - Test configurations, operational conditions and performance criteria
IEC 61326-2-6	A, C & D	Particular requirements – in vitro diagnostic medical equipment
IEC 61326-3-1	A, C & D	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-1 Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - General industrial applications
IEC 61326-3-2	A, C & D	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-2 Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - Industrial applications with specified electromagnetic environment
IEC 62061	A, C & D	Safety of machinery – functional safety related electrical, electronic & programmable control systems (<i>note: only capable of performing EMC testing for section 6.4.3, ref Annex E</i>)

ISO

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
7637-2	C	Road vehicles — Electrical disturbances from conduction and coupling — Part 2 Electrical transient conduction along supply lines only
7637-3	C	Road vehicles — Electrical disturbances from conduction and coupling — Part 2 Vehicles with nominal 12 V or 24 V supply voltage – Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines
11452-2	C	Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 2 Absorber-lined shielded enclosure



ISO (CONTINUED)

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
11452-3	C	Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 3 Transverse electromagnetic (TEM) cell
11452-4	C	Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 4 Bulk current injection (BCI)
11452-8	C	Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 8 Immunity to magnetic fields
13766	A, C & D	Earth-moving machinery — Electromagnetic compatibility
14982	A, C & D	Agricultural and forestry machinery — Electromagnetic compatibility — Test methods and acceptance criteria

JAPAN

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
VCCI V-1	A & D	Agreement of voluntary control council for interference by information technology equipment
VCCI V-2	A & D	Rules for Voluntary control measures
VCCI V-3 (up to 1 GHz)	A	Technical Requirements
VCCI V-3 (up to 6 GHz)	D	Technical Requirements

KOREA

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
RRA NOTICE 2009-14	A & D	Type Approval of Telecommunications Terminal Equipment
RRA NOTICE 2008-15	A, C & D	Designation and Management of Testing Laboratories for Broadcasting and Communications Equipment
KCC NOTICE 2008-133	A, C & D	Type Official Approval, Type registration, EMC registration for Broadcasting and Communications Equipment.
RRL NOTICE 2007-97	A & D	Technical requirements for the radio equipment of aeronautical mobile service and aeronautical radio navigation service
RRL NOTICE 2007-75	A & D	Technical requirements for the radio equipment of telecommunication service
RRL NOTICE 2007-20	A & D	Conformity assessment procedure for type official approval and type registration of radio equipment.
RRL NOTICE 2007-80	A & D	Technical requirements for the radio equipment for other services than broadcasting, maritime, aeronautical and telecommunications service.
RRL NOTICE 2007-98	A & D	Technical requirements for the radio equipment for maritime mobile service & maritime radio navigation service
KCC NOTICE 2008-39	A & D	Technical requirements for EMI
KCC NOTICE 2008-38	C	Technical requirements for EMS

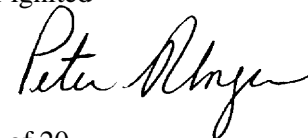


KOREA (CONTINUED)

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
RRA NOTICE 2008-11	A & D	Conformity assessment procedure for electromagnetic interference
RRA NOTICE 2008-12	C	Conformity assessment procedure for electromagnetic susceptibility
KN 11 (2008-5)	A & D	CISPR 11 (2004-6)
KN 13 (2008-5)	A & D	CISPR 13 (2006-3)
KN 14-1 (2008-5)	A & D	CISPR 14-1 (2005-11)
KN 22 (2008-5)	A & D	CISPR 22 (2005-4)
KN 41 (2008-5)	A & D	EC directive 95/54 (1995-5)
KN 50 (2008-5)	A & D	IEC 62236-1~5 (2000-9)
KN 301 489-1 (2008-5)	A & D	EN 301 489-1 V1.5.1 (2004-11)
KN 301 489-7 (2008-5)	A & D	EN 301 489-7 V1.2.1 (2002-8)
KN 301 489-17 (2008-5)	A & D	EN 301 489-17 V1.2.1 (2002-8)
KN 301 489-24 (2008-5)	A & D	EN 301 489-24 V1.3.1 (2005-11)
KN 15 (2008-5)	A & D	CISPR 15 (2007-1)
KN 60 (2008-05)*	A & D	Conformity assessment procedure for interference of power-line communication equipment
KN 61000-4-2(2008-5)	C	IEC 61000-4-2 (2001-4)
KN 61000-4-3(2008-5)	C	IEC 61000-4-3 (2006-2)
KN 61000-4-4(2008-5)	C	IEC 61000-4-4 (2004-7)
KN 61000-4-5(2008-5)	C	IEC 61000-4-5 (2005-11)
KN 61000-4-6(2008-5)	C	IEC 61000-4-6 (2004-11)
KN 61000-4-8(2008-5)	C	IEC 61000-4-8 (2001-3)
KN 61000-4-11(2008-5)	C	IEC 61000-4-11 (2004-3)
KN 60601-1-2(2008-5)	C	IEC 60601-1-2(2004-11)
KN 14-2 (2008-5)	C	CISPR 14-2 (2001-11)
KN 20 (2008-5)	C	CISPR 20 (1998-8)
KN 24 (2008-5)	C	CISPR 24 (2002-10)
KN 41 (2008-5)	C	EC directive 95/54 (1995-5)
KN 51 (2008-5)	C	IEC 62236-1~5 (2000-9)
KN 301 489-1 (2008-5)	C	EN 301 489-1 V1.5.1 (2004-11)
KN 301 489-7 (2008-5)	C	EN 301 489-7 V1.2.1 (2002-8)
KN 301 489-17 (2008-5)	C	EN 301 489-17 V1.2.1 (2002-8)
KN 301 489-24 (2008-5)	C	EN 301 489-24 V1.3.1 (2005-11)

SAE

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
J1752-2	A & D	Measurement of radiated emissions from integrated circuits - surface scan method (loop probe method) 10 MHz to 3 GHz
J551-1	A, C & D	Performance levels and methods of measurement of electromagnetic compatibility of vehicles, boats (up to 15 m), and machines (16.6 Hz to 18 GHz)
J551-2	A, C & D	Test limits and methods of measurement of radio disturbance characteristics of vehicles, motorboats, and spark-ignited engine- driven devices



SAE (CONTINUED)

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
J551-4	A, C & D	Test limits and methods of measurement of radio disturbance characteristics of vehicles and devices, broadband and narrowband, 150 KHz to 1000 MHz
J551-5	A, C & D	Performance levels and methods of measurement of magnetic and electric field strength from electric vehicles, broadband, 9 KHz to 30 MHz
J551-11	C	Vehicle electromagnetic immunity - off-vehicle source
J551-12	C	Vehicle electromagnetic immunity - on-board transmitter simulation
J551-13	C	(R) vehicle electromagnetic immunity - bulk current injection
J551-15	C	Performance level and methods of measurement of electromagnetic compatibility of vehicles, boats (up to 15 m), and machines (50 Hz to 15 GHz) Part 15 vehicle electromagnetic immunity - electrostatic discharge (ESD)
J551-17	C	(R) vehicle electromagnetic immunity - power line magnetic fields
J1113 – 11	C	Immunity to conducted transients on power leads
J1113 – 21	C	Electrical interference by conduction and coupling - coupling clamp and chattering relay
J1113 – 22	C	Electromagnetic compatibility measurement procedure for vehicle components-Part 22 - immunity to radiated magnetic fields
J1113 – 41	C	Limits and methods of measurement of radio disturbance characteristics of components and modules for the protection of receivers used on board vehicles
J1455	C	Joint SAE/TMC recommended environmental practices for electronic equipment design (heavy-duty trucks) [Sections: 4.11.1.1, 4.11.1.2, 4.11.2.2.1, 4.11.2.2.3, 4.11.2.2.4.1, 4.11.2.2.5, 4.11.3 (except 1113-23)]
J1752-3	A, C & D	(R) measurement of radiated emissions from integrated circuits - tem/wideband tem (GTEM) cell method; tem cell (150 KHz to 1 GHz), wideband tem cell (150 KHz to 8GHz) [up to 1.2GHz]



TAIWAN**STANDARD****CAPABLE
SITE(S)****DESCRIPTION OF STANDARD**

CNS 13306	C	Specification for radio disturbance and immunity measuring apparatus and methods Part 1 Radio disturbance and immunity measuring apparatus.
CNS 13438 (Limited to 1GHz)	A	Limits and methods of measurement of radio interference characteristics of information technology equipment (ITE)
CNS 13438	D	Limits and methods of measurement of radio interference characteristics of information technology equipment (ITE)
CNS 13439	A & D	Limits and methods of measurement of radio interference characteristics of sound and television broadcast receiver and associated equipment.
CNS 13803	A & D	Limits and methods of measurement of electromagnetic disturbance characteristics of industrial, scientific and medical (ISM) radio-frequency equipment.

UNITED STATES**STANDARD****CAPABLE
SITE(S)****DESCRIPTION OF STANDARD**

47 CFR PART 11	A & D	Emergency alert system (EAS)
47 CFR PART 15	A & D	Radio frequency devices
47 CFR PART 18	A & D	Industrial, scientific and medical equipment
47 CFR PART 22	A & D	Public mobile services
47 CFR PART 24	A & D	Personal communications services
47 CFR PART 25	A & D	Satellite communications
47 CFR PART 27	A & D	Miscellaneous wireless communication services
47 CFR PART 73	A & D	Radio broadcast services
47 CFR PART 74	A & D	Experimental radio, auxiliary, and special broadcast and other program distributional services
47 CFR PART 80	A & D	Stations in the maritime services
47 CFR PART 87	A & D	Aviation services
47 CFR PART 90	A & D	Private land mobile radio services
47 CFR PART 95	A & D	Personal radio services
47 CFR PART 97	A & D	Amateur radio services
47 CFR PART 101	A & D	Fixed microwave services
ANSI RESNA WC VOL.2	A, C & D	Electrically powered wheelchairs, scooters and their chargers - requirements and test methods [Section 21 only]
DO 160A/B/C/D/E/F	C	Environmental conditions and test procedures of airborne equipment [Sections: 15-22 & 25]
MIL-STD-461A/B/C	C	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference [Emissions tests sections: CE01-07, RE01-03]
MIL-STD-461A/B/C	C	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference [Susceptibility tests CS01-12, RS01-03, RS06]



UNITED STATES (CONTINUED)

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
MIL-STD-461D/E/F	C	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference [Emissions tests sections: CE101-102 & CE106, RE101-103]
MIL-STD-461D/E/F	C	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference [Susceptibility tests CS101, CS103, CS104, CS105, CS109, CS114, CS115, CS116, RS101, RS103]

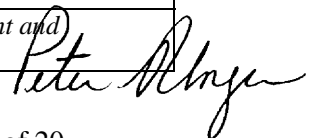
Per FCC TCB PROGRAM ROLES AND RESPONSIBILITIES dated February 14, 2008

Section 11 Scope of Accreditation for TCB Laboratory

The testing laboratory portion of the TCB shall be accredited to ISO/IEC 17025 with a scope of accreditation covering the regulations and measurement procedures listed in table 2. It should be noted that further guidance on the measurement techniques to be used for a given regulation may be found in the associated report and order, FCC public notice, FCC bulletin or interpretation found on the FCC KDB.

Table 2 – ISO/IEC 17025 Accredited Laboratory Scope of Accreditation

Scope A – Unlicensed Radio Frequency Devices	
A1	1. 47 CFR Parts 11 (<i>Emergency Alert System (EAS)</i>), 15 (<i>Radio Frequency Devices</i>) and 18 (<i>Industrial, Scientific, and Medical Equipment</i>)
	2. FCC MP-5, (February 1986) <i>FCC Methods of Measurements of Radio Noise Emissions From Industrial, Scientific, and Medical Equipment</i>
	3. ANSI C63.4-2003, <i>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</i>
A2	1. 47 CFR Part 15, <i>Radio Frequency Devices</i>
	2. ANSI C63.4-2003, <i>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</i>
A3	1. 47 CFR Part 15, <i>Radio Frequency Devices</i>
	2. ANSI C63.17-1998, <i>American National Standard for Methods of Measurement of the Electromagnetic and Operational Compatibility of Unlicensed Personal Communications Services (UPCS) Devices</i>
	3. ANSI C63.4-2003, <i>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 40GHz</i>
A4	1. 47 CFR Part 15, <i>Radio Frequency Devices</i>
	2. ANSI C63.4-2003, <i>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</i>
Scope B – Licensed Radio Service Equipment	
B1	1. 47 CFR Parts 2 (<i>Frequency Allocations and Radio Treaty Matters; General Rules and Regulations</i>), 22 (<i>Public Mobile Services</i>), 24 (<i>Personal Communications Services</i>), 25 (<i>Satellite Communications</i>), and 27 (<i>Miscellaneous Wireless Communications Services</i>)
	2. ANSI/TIA-603-C (2004), <i>Land Mobile FM or PM Communications Equipment Measurement and Performance Standards</i>



B2	1. 47 CFR Parts 2 (<i>Frequency Allocations and Radio Treaty Matters; General Rules and Regulations</i>), 22 (<i>Public Mobile Services</i>), 74 (<i>Experimental Radio Auxiliary, Special Broadcast and Other Program Distributional Services</i>), 90 (<i>Private Land Mobile Radio Services</i>), 95 (<i>Personal Radio Services</i>), and 97 (<i>Amateur Radio Services</i>)
	2. ANSI/TIA-603-C (2004), <i>Land Mobile FM or PM Communications Equipment Measurement and Performance Standards</i>
B3	1. 47 CFR Parts 2 (<i>Frequency Allocations and Radio Treaty Matters; General Rules and Regulations</i>), 80 (<i>Stations in the Maritime Services</i>), and 87 (<i>Aviation Services</i>)
	2. ANSI/TIA-603-C (2004), <i>Land Mobile FM or PM Communications Equipment Measurement and Performance Standards</i>
B4	1. 47 CFR Parts 2 (<i>Frequency Allocations and Radio Treaty Matters; General Rules and Regulations</i>), 27 (<i>Broadband Radio Services (BRS) and Educational Broadband Services (EBS)</i>), 74 (<i>Experimental Radio Auxiliary, Special Broadcast and Other Program Distributional Services</i>), and 101 (<i>Fixed Microwave Services</i>)
	2. ANSI/TIA-603-C (2004), <i>Land Mobile FM or PM Communications Equipment Measurement and Performance Standards</i>
Scope C – Telephone Terminal Equipment	
C1	1. 47 CFR Part 68, <i>Connection of Terminal Equipment to the Telephone Network</i>
	2. TIA-968-A (January 15, 2003), <i>Telecommunications -- Telephone Terminal Equipment -- Technical Requirements for Connection of Terminal Equipment to the Telephone Network (Upgrade and Revision of TIA/EIA/IS-968)</i> , including amendments: TIA-968-A-1 (September 2, 2003), TIA-968-A-2 (March 7, 2004), TIA-968-A-3 (February 2, 2005), TIA-968-A-4 (March 14, 2007), and TIA-968-A-5 (July 25, 2007).
	3. T1.TRQ.6 (January 15, 2002), <i>Technical Requirements Document, SHDSL, HDSL2, HDSL4 Digital Subscriber Line Terminal Equipment to Prevent Harm to the Telephone Network</i>
	4. TIA/EIA TSB-31-B (February 1, 1998), <i>Part 68 Rationale and Measurement Guidelines (1998)</i>

CKC is accredited to the entirety of Scope A and Scope B as listed above in Table 2

Industry Canada

Transmitter & EMC Compliance Testing RSS-GEN, ANSI C63.4 (2003) and specific standard(s).

¹¹ See the FCC equipment authorization web page for links to the referenced measurement techniques.
<http://www.fcc.gov/oet/ea/eameasurements.html>

Notes:

1. Limitations for listed standards are indicated by square brackets.
2. Scope excludes protocol sections of applicable standards.
3. Scope includes references to basic standards or test methods specified within the governing standard; consequently, the basic standard references need not be identified on this scope document.

CKC LABORATORIES, INC
9604 Variel Avenue
Chatsworth, CA 91311

The following test sites are accredited for the test descriptions as indicated below:

Site M1 (Chatsworth) Military/Aerospace Emissions & Immunity Testing
Site M2 (Chatsworth) Military/Aerospace Emissions & Immunity Testing



The following test standards are accredited to the indicated test sites(s):

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
DO 160A/B/C/D/E/F	M1 & M2	Environmental conditions and test procedures of airborne equipment [Sections: 15-22 & 25]
MIL-STD-461A/B/C MIL-STD-462A/B/C	M1 & M2	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference [Emissions tests sections: CE01-07, RE01-03]
MIL-STD-461A/B/C MIL-STD-462A/B/C	M1 & M2	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference [Susceptibility tests CS01-12, RS01-03, RS06]
MIL-STD-461D/E/F	M1 & M2	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference [Emissions tests sections: CE101-102 & CE106, RE101-103]
MIL-STD-461D/E/F	M1 & M2	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference [Susceptibility tests CS101, CS103, CS104, CS105, CS109, CS114, CS115, CS116, RS101, RS103]

ISO

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
7637-2	M1	Road vehicles — Electrical disturbances from conduction and coupling — Part 2 Electrical transient conduction along supply lines only
7637-3	M1	Road vehicles — Electrical disturbances from conduction and coupling — Part 2 Vehicles with nominal 12 V or 24 V supply voltage – Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines
11452-2	M1	Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 2 Absorber-lined shielded enclosure
11452-3	M1	Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 3 Transverse electromagnetic (TEM) cell
11452-4	M1	Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 4 Bulk current injection (BCI)

ISO (CONTINUED)

<u>STANDARD</u>	<u>CAPABLE SITE(S)</u>	<u>DESCRIPTION OF STANDARD</u>
11452-8	M1	Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 8 Immunity to magnetic fields
13766	M1	Earth-moving machinery — Electromagnetic compatibility
14982	M1	Agricultural and forestry machinery — Electromagnetic compatibility — Test methods and acceptance criteria

Notes:

1. Limitations for listed standards are indicated by square brackets.





The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

CKC LABORATORIES, INC.

Brea, CA

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).

Presented this 20th day of April 2009.



A handwritten signature in black ink, appearing to read "Peter Abney".

President & CEO
For the Accreditation Council
Certificate Number 803.02
Valid to January 31, 2011

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.