



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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ELECTRICAL (EMC)

Valid to: November 30, 2015


Certificate Number: 2381.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following Electromagnetic Compatibility Testing (EMC) on Information Technology, Medical and Radio Communication Equipment:

Test:	Test Method:
<i>Reference & Basic Standards</i>	EN 55011, CISPR 11, ICES-001
<i>Emissions</i>	47 CFR Part 18 (using MP-5), KN 11, VCCI V-3 (up to 6 GHz)
<i>Conducted Emissions</i> <i>10 kHz to 30 MHz</i>	EN 55022 , CISPR 22, ICES-003, KN 22
<i>Radiated Emissions</i> <i>Electric Field 30 MHz - 40 GHz</i>	47 CFR Part 15B, 47 CFR Part 15C Using ANSI C63.4 (2003 and 2009)
<i>Harmonics</i>	EN 61000-3-2, IEC 61000-3-2
<i>Flicker</i>	EN 61000-3-3, IEC 61000-3-3
<i>Electrostatic Discharge</i> <i>up to 15 kV</i>	EN 61000-4-2, IEC 61000-4-2, KN 61000-4-2
<i>Radiated RF Immunity</i> <i>3 V/m, (80 to 4200) MHz</i>	EN 61000-4-3, IEC 61000-4-3, KN 61000-4-3
<i>Immunity to Fast Transients/ Bursts up to 4.5 kV</i>	EN 61000-4-4, IEC 61000-4-4, KN 61000-4-4
<i>Immunity to Mains Surge</i> <i>up to 6 kV</i>	EN 61000-4-5, IEC 61000-4-5, KN 61000-4-5
<i>Conducted RF Immunity</i> <i>150 kHz to 230 MHz up to 10 Vrms</i>	EN 61000-4-6, IEC 61000-4-6, KN 61000-4-6
<i>Power Frequency Magnetic Fields</i>	EN 61000-4-8, IEC 61000-4-8, KN 61000-4-8
<i>Voltage Dips and Variations</i>	EN 61000-4-11 , IEC 61000-4-11, KN 61000-4-11
<i>Harmonics and Inter-harmonics</i>	EN 61000-4-13, IEC 61000-4-13
<i>Voltage Fluctuations</i>	EN 61000-4-14, IEC 61000-4-14
<i>DC Ripple</i>	EN 61000-4-17, IEC 61000-4-17
<i>Voltage Frequency Variations</i>	EN 61000-4-28, IEC 61000-4-28

<u>Test:</u>	<u>Test Method:</u>
<i>Voltage Dips, Short Interruptions and Voltage Variations on DC Input Power Port</i>	EN 61000-4-29 IEC 61000-4-29
<i>These generic and product specific standards are included but limited to those Reference & Basic Standards that are explicitly listed earlier</i>	EN 61000-6-1; IEC 61000-6-1; EN 61000-6-2; IEC 61000-6-2; EN 61000-6-3; IEC 61000-6-3; AS/NZS 4251.1; EN 61000-6-4; IEC 61000-6-4; AS/NZS 4251.2; EN 55024; CISPR 24; KN 24; EN 300 386; EN 60601-1-2; IEC 60601-1-2; EN 60601-2-35; EN 301 489-1; EN 301 489-2; EN 301 489-3; EN 301 489-4; EN 301 489-5; EN 301 489-6; EN 301 489-7; KN 301 489-07; EN 301 489-8; EN 301 489-9; EN 301 489-10; EN 301 489-12; EN 301 489-13; EN 301 489-15; EN 301 489-16; EN 301 489-17; KN 301 489-17; EN 301 489-18; EN 301 489-19; EN 301 489-20; RSS-127; RSS-170; 47 CFR Part 25; ANSI/TIA-603-C; EN 301 489-22; EN 55103-1; EN 55103-2
<i>Radio Standards Specifications</i>	RSS-GEN; RSS-102; 47 CFR Part 2, 73, 80, 87

Peter Mlynar

<u>Test:</u>	<u>Test Method:</u>
<p><i>Fixed Radio Systems Point-to Point and Point-to-Multipoint</i></p> <p><i>Microwave Radio Transmitter and Receiver Testing</i></p> <ul style="list-style-type: none"> • <i>Output power up to 10 W</i> • <i>Frequency Error 9 kHz - 110 GHz</i> • <i>RF Spectrum Mask 9 kHz - 40 GHz</i> • <i>Equipment Background BER</i> • <i>Co-Channel Interference</i> • <i>CW Spurious Interference 10 kHz - 110 GHz</i> • <i>Spectral Lines at the Symbol Rate 9 kHz - 40 GHz</i> • <i>Co-Channel Interference</i> • <i>Front-end non-linearity</i> • <i>Distortion Sensitivity</i> 	<p>EN 301 126-1; EN 301 390; EN 301 751; EN 302 217-1; EN 302 217-2-1; EN 302 217-2-2; EN 302 217-3; 47 CFR Part 101*; SRSP-314.5 *; SRSP-317.8 *; SRSP-321.8 *; RSS-191 *; 47 CFR Part 2J; EN 301 126-2-1; EN 301 126-2-2; EN 301 126-2-3; EN 301 126-2-4; EN 301 126-2-5; EN 301 126-2-6; EN 301 753; EN 302 326-1; EN 302 326-2; EN 301 744; ANSI C63.17 (1998); RSS-129; RSS 130; RSS-132; RSS-133; RSS-134; RSS-139; RSS-142; RSS-192; RSS-193; RSS-194; RSS-195; RSS-196; RSS 244; SRSP-310.5 *; EN 302 063 *; EN 301 997-1 *; EN 301 997-2 *; 47 CFR Part 21 *; 47 CFR Part 22 *; 47 CFR Part 24 *; 47 CFR Part 27 *; 47 CFR Part 101 *</p> <div style="text-align: right; margin-top: 20px;">  </div>

<u>Test:</u>	<u>Test Method:</u>
<p>Short Range Devices Transmitter and Receiver Testing</p> <ul style="list-style-type: none"> • <i>Effective Isotropic Radiated Power (EIRP) and Effected Radiated Power</i> • <i>Peak Transmit and Peak Power Density</i> • <i>Frequency Error and Range</i> • <i>Transmitter Spectrum Mask</i> • <i>Transmitter Spurious Emissions 30 MHz to 40 GHz</i> • <i>Receiver Threshold</i> • <i>Adjacent Channel Selectivity & Blocking</i> • <i>Receiver Spurious Emissions 30 MHz – 40 GHz</i> • <i>Dynamic Frequency Selection</i> • <i>Emissions Bandwidths and Peak Excursions (UNII Devices)</i> 	<p>EN 300 330-1; EN 300 330-2; EN 300 220-1; EN 300 220-2; EN 300 220-3; EN 300 440-1; EN 300 440-2; EN 300 328 *; EN 301 893 * (Includes on-site DFS); EN 302 502 * (Includes on-site DFS); ES 202 131; EN 300 674-1; EN 300 674-2-1; EN 300 674-2-2; EN 301 091-1; EN 301 091-2; EN 302 208-1; EN 302 208-2; EN 302 291-1; EN 302 291-2; ANSI C63.10; 47CFR Part 15C *; 47CFR Part 15D; 47CFR Part 15E *; 47CFR Part 15F; 47CFR Part15G; ARIB STD-T91; EN 302 065; RSS-220; 47 CFR Part 18; RSS-111; RSS-117; RSS-123; RSS-135; RSS-137; RSS-141; RSS-181; RSS-182; RSS-197; RSS-199; RSS-210 *; RSS-213; RSS-215; RSS-238; RSS-243; RSS-288; RSS-310</p> <p style="text-align: right;"><i>Peter Mlynar</i></p>

<u>Test:</u>	<u>Test Method:</u>
<i>Land Mobile Service</i>	EN 300 113-1; EN 300 113-2; EN 301 166-1; EN 301 166-2; EN 300 390-1; EN 300 390-2; EN 300 471-1; EN 300 471-2; RSS-112; RSS-118; RSS-119; RSS-125; RSS-131; RSS-236; RSS-287; 47 CFR Part 11; 47 CFR Part 90; 47 CFR Part 95; 47 CFR Part 97
<i>Sound and Television Broadcast Receivers and Associated Equipment.</i>	CISPR 13; EN 55013; CISPR 20; EN 55020; CNS 13439
Television Bands	47 CFR Part 15H
Broadcast Radio Services	47 CFR Part 74; ANSI/TIA-603-C
<i>Product Safety</i>	EN 60950-1



<u>Test:</u>	<u>Test Method:</u>
<i>Country Specific Tests</i>	
<i>Hong Kong</i>	HKTA 1039 Issue 2; HKTA 1042 Issue 2; HKTA 1049 Issue 1
<i>Singapore</i>	IDA TS WBA (May 2011); IDA TS SRD (May 2011); IDA TS LMR (June 2011)
<i>Taiwan</i>	DGT C-IS2031-0; DGT C-IS2034-0 ; DGT LP0002; CNS 13438 (<i>up to 6 GHz</i>)
<i>Australia</i>	
<u>Test Method:</u>	<u>Type of Equipment, Service, or Amplifying Comments:</u>
AS/NZS 4268 : 2012	ACMA Radiocommunications (Short range devices) Standard 2004, with amendments (No. 1) 2013, (No 2) 2013
<i>Japan (Specified Radio Equipment Article 38-2-2, paragraph 1), Item 1 of Radio Law</i>	
<u>Test Method:</u>	<u>Type of Equipment, Service, or Amplifying Comments:</u>
MIC Article 2-1 Item (3) MIC Article 2-1 Item (7) MIC Article 2-1 Item (8) MIC Article 2-1 Item (13) MIC Article 2-1 Item (19) * MIC Article 2-1 Item (19)-2-2 MIC Article 2-1 Item (19)-2-3 MIC Article 2-1 Item (19)-2 MIC Article 2-1 Item (19)-3 * MIC Article 2-1 Item (19)-3-2 * MIC Article 2-1 Item (19)-4 MIC Article 2-1 Item (19)-11 MIC Article 2-1 Item (21) MIC Article 2-1 Item (21)-2 MIC Article 2-1 Item (21)-3 MIC Article 2-1 Item (22) MIC Article 2-1 Item (32) MIC Article 2-1 Item (33)-2 MIC Article 2-1 Item (47) MIC Article 2-1 Item (47)-2	Citizen radio Cordless telephone Specified low power radio equipment Low power security system 2.4 GHz Band 2.4 GHz Band 2.4 GHz Band 2.4 GHz Band 5.3 GHz Band 5.6 GHz Band 25 GHz and 27 GHz Bands 5 GHz Band Digital cordless Telephone – Narrowband TDMA Digital cordless Telephone – Wideband TDMA Digital cordless Telephone – TDMA/OFDMA PHS land mobile station DSRCS DSRCS Ultra wide band (UWB) radio system Ultra wide band (UWB) radar system



<u>Test:</u>	<u>Test Method:</u>



Japan (Specified Radio Equipment Article 38-2-2, paragraph 1), Item 2 of Radio Law

<u>Test Method:</u>	<u>Type of Equipment, Service, or Amplifying Comments:</u>
MIC Article 2-1 Item (1)-4 MIC Article 2-1 Item (9) MIC Article 2-1 Item (9)-2 MIC Article 2-1 Item (10) MIC Article 2-1 Item (11) MIC Article 2-1 Item (11)-3 MIC Article 2-1 Item (11)-4 MIC Article 2-1 Item (11)-7 MIC Article 2-1 Item (11)-8 MIC Article 2-1 Item (11)-8-2 MIC Article 2-1 Item (11)-11 MIC Article 2-1 Item (11)-12 MIC Article 2-1 Item (11)-15 MIC Article 2-1 Item (11)-17 MIC Article 2-1 Item (11)-19 MIC Article 2-1 Item (11)-21 MIC Article 2-1 Item (11)-23 MIC Article 2-1 Item (11)-25 MIC Article 2-1 Item (11)-26 MIC Article 2-1 Item (14) MIC Article 2-1 Item (14)-2 MIC Article 2-1 Item (15)-2 MIC Article 2-1 Item (19)-9 MIC Article 2-1 Item (19)-10 MIC Article 2-1 Item (20) MIC Article 2-1 Item (20)-2 MIC Article 2-1 Item (28) MIC Article 2-1 Item (28)-2 MIC Article 2-1 Item (30) MIC Article 2-1 Item (30)-2 MIC Article 2-1 Item (31) MIC Article 2-1 Item (31)-3 MIC Article 2-1 Item (39) MIC Article 2-1 Item (46)	MCA VSAT (Ku band) VSAT (Ka band) TDMA CDMA WCDMA CDMA2000 DS-CDMA (HSDPA) CDMA2000 (1xEV-DO) CDMA2000 (1xEV-DO) multicarrier TD-CDMA TD-SCDMA TD-OFDMA (XGPHS) MBTDD 625K land mobile station SC-FDMA(LTE) FDD SC-FDMA(LTE) TDD OFDMA (UMB) FDD WiMAX land mobile station OFDMA (UMB) TDD Land portable MES Portable MES for Orbcomm system 26/38 GHz band 5 GHz WLAN 5 GHz WLAN (low spurious type) 1500 MHz Digital MCA 800 MHz Digital MCA S-band portable MES Portable MES for Iridium system INMARSAT portable MES Earth stations on board vessels Rural subscriber radio 60 GHz LMS (point to multipoint) Digital airport radio system (MCA) Aircraft earth station of aeronautical mobile-satellite service networks in 14-14.5 GHz band
MIC Article 2-1 Item (51) MIC Article 2-1 Item (52) MIC Article 2-1 Item (54) MIC Article 2-1 Item (56)	WiMAX LMS MBTDD-W LMS Next-gen. PHS LMS MBTDD 625K LMS




Japan (Specified Radio Equipment Article 38-2-2, paragraph 1), Item 3 of Radio Law

<u>Test Method:</u>	<u>Type of Equipment, Service, or Amplifying Comments:</u>
<p>MIC Article 2-1 Item (1)-4 MIC Article 2-1 Item (1)-9 MIC Article 2-1 Item (1)-10 MIC Article 2-1 Item (1)-11 MIC Article 2-1 Item (1)-12 MIC Article 2-1 Item (1)-12-2 MIC Article 2-1 Item (1)-13 MIC Article 2-1 Item (1)-14 MIC Article 2-1 Item (1)-15 MIC Article 2-1 Item (2) MIC Article 2-1 Item (2)-2 MIC Article 2-1 Item (3)-2 MIC Article 2-1 Item (4) MIC Article 2-1 Item (4)-2 MIC Article 2-1 Item (4)-4 MIC Article 2-1 Item (4)-5 MIC Article 2-1 Item (4)-6 MIC Article 2-1 Item (4)-7 MIC Article 2-1 Item (5) MIC Article 2-1 Item (6) MIC Article 2-1 Item (6)-2 MIC Article 2-1 Item (6)-3 MIC Article 2-1 Item (10)-3 MIC Article 2-1 Item (11)-2 MIC Article 2-1 Item (11)-2-2 MIC Article 2-1 Item (11)-5 MIC Article 2-1 Item (11)-6 MIC Article 2-1 Item (11)-6-2 MIC Article 2-1 Item (11)-6-3 MIC Article 2-1 Item (11)-9 MIC Article 2-1 Item (11)-10 MIC Article 2-1 Item (11)-10-2 MIC Article 2-1 Item (11)-10-3 MIC Article 2-1 Item (11)-13 MIC Article 2-1 Item (11)-14 MIC Article 2-1 Item (11)-16 MIC Article 2-1 Item (11)-18 MIC Article 2-1 Item (11)-20 MIC Article 2-1 Item (11)-22 MIC Article 2-1 Item (11)-24 MIC Article 2-1 Item (11)-27 MIC Article 2-1 Item (11)-28</p>	<p>MCA (except land mobile station) SSB for LMS and portable radio Angle-modulation system for LMS and portable radio station Frequency modulation system for LMS and portable radio station Specified radio microphone Digital specified radio microphone DSB maritime mobile telephone SSB maritime mobile tele. < 50W Frequency modulation system Radiolocation Radio buoys Meteorological aids Convenience radio 900 MHz Convenience radio 150, 400 MHz Convenience radio 27 MHz Dig. conv. radio 150, 400 MHz Dig. conv. radio 150, 400 MHz, with a carrier sensing device Convenience radio 950 GHz Convenience radio 50 GHz Premises radio Premises radio 950 MHz, with a carrier sensing device 2450 MHz using FHS TDMA CDMA Femtocell for CDMA W-CDMA CDMA2000 Femtocell for W-CDMA Femtocell for CDMA2000 W-CDMA (HSDPA) CDMA2000 (1xEV-DO) Femtocell for W-CDMA (HSDPA) Femtocell for CDMA2000 (1xEV-DO) TD-CDMA TD-SCDMA TD-OFDMA (XGPHS) MBTDD 625K SC-FDMA (LTE) FDD SC-FDMA (LTE) TDD OFDMA (UMB) FDD WiMAX Base station for UMB(2GHz TDD)</p>



Japan (Specified Radio Equipment Article 38-2-2, paragraph 1), Item 3 of Radio Law (cont.)

<u>Test Method:</u>	<u>Type of Equipment, Service, or Amplifying Comments:</u>
MIC Article 2-1 Item (12)	Amateur station
MIC Article 2-1 Item (15)	26/38 GHz band subscriber radio access comm. (point to multipoint)
MIC Article 2-1 Item (15)-3	22/26/38 GHz band subscriber radio access comm. (point to point)
MIC Article 2-1 Item (16)	Fixed station – telemeter and broadcasting type simplex comm.
MIC Article 2-1 Item (17)	Fixed station – emergency alarms in the 60 MHz band
MIC Article 2-1 Item (18)	Fixed station – telecomm. service in the 22 GHz band
MIC Article 2-1 Item (19)-5	5 GHz WLAN
MIC Article 2-1 Item (19)-6	5 GHz WLAN (low spurious type)
MIC Article 2-1 Item (19)-7	5 GHz WLAN (limited for use in Special Zones)
MIC Article 2-1 Item (19)-8	5 GHz WLAM (low spurious type) (limited for use in Special Zones)
MIC Article 2-1 Item (20)	1500 MHz, except for LMS
MIC Article 2-1 Item (20)-2	800 MHz, except for LMS
MIC Article 2-1 Item (23)	PHS base station
MIC Article 2-1 Item (23)-2	PHS relay station
MIC Article 2-1 Item (23)-3	PHS test station
MIC Article 2-1 Item (24)	Fixed station for telecom service in the 38 GHz band
MIC Article 2-1 Item (25)	RZSSB system
MIC Article 2-1 Item (25)-2	Auto freq. selecting RZSSB system
MIC Article 2-1 Item (25)-3	Freq. tracking RZSSB system
MIC Article 2-1 Item (25)-4	Narrow-band digital system
MIC Article 2-1 Item (25)-5	Auto freq. selecting narrow-band digital system
MIC Article 2-1 Item (25)-6	Freq. tracking narrow band dig. system
MIC Article 2-1 Item (26)	Vehicle detection system
MIC Article 2-1 Item (27)	Beacon system
MIC Article 2-1 Item (28)-3	Radar class III
MIC Article 2-1 Item (29)	Radar class IV
MIC Article 2-1 Item (31)-2	Base station in 60 GHz band
MIC Article 2-1 Item (31)-4	LMS in 60 GHz band (point to point)
MIC Article 2-1 Item (33)	Base station for dedicated short rand comm. system
MIC Article 2-1 Item (38)	Fixed station for the municipal digital disaster prev. service in 60 MHz band
MIC Article 2-1 Item (40)	Dig. airport radio system (MCA and add a direct connection type)
MIC Article 2-1 Item (41)	Base station, LMRS and LMS for telecom. and public service in 18GHz band (point to point)
MIC Article 2-1 Item (42)	LMS for telecom. and public service in 18 GHz band (point to multipoint)
MIC Article 2-1 Item (43)	Base station, LMRS for telecom and public service in 18 GHz band (point to multipoint)
MIC Article 2-1 Item (44)	Fixed station for telecom service in the 18 GHz band
MIC Article 2-1 Item (45)	Fixed station for public service in the 18 GHz band
MIC Article 2-1 Item (48)	Fixed station for telecom. service in the 1500 MHz band
MIC Article 2-1 Item (49)	Base station for WiMAX



Japan (Specified Radio Equipment Article 38-2-2, paragraph 1), Item 3 of Radio Law (cont.)

<u>Test Method:</u>	<u>Type of Equipment, Service, or Amplifying Comments:</u>
MIC Article 2-1 Item (50)	Base station for MBTDD-W
MIC Article 2-1 Item (53)	Base station for next-gen. PHS
MIC Article 2-1 Item (55)	Base station for MBTDD 625K
MIC Article 2-1 Item (57)	Gap filler for digital terrestrial television broadcasting
MIC Article 2-1 Item (57)-2	Gap filler for digital terrestrial television broadcasting
MIC Article 2-1 Item (58)	Simple model Automatic Identification System
MIC Article 2-1 Item (59)	Simple model international VHF
MIC Article 2-1 Item (60)	Simple model international VHF (portable type)
MIC Article 2-1 Item (61)	Base station for mobile broadband communication (200MHz)
MIC Article 2-1 Item (62)	Land mobile station for mobile broadband communication (200MHz)

Korea

<u>Test Method:</u>	<u>Type of Equipment, Service, or Amplifying Comments:</u>
MSIP Public Notification 2013-157, Sep 11, 2013	Regulations on Radio Equipment
MSIP Public Notification 2013-116, Aug 29, 2013	Unlicensed Radio Equipment Established Without Notice
RRA Public Notification 2013-33, Jul 26, 2013	Conformity Assessment Procedure of Radio Equipment
RRA Public Notification 2013-3, June 17, 2013	Technical Requirements for EMI
RRA Announce 2013-24, June 17, 2013	Test Methods for EMI
RRA Public Notification 2013-4, June 17, 2013	Technical Requirements for EMS
RRA Announce 2013-25, June 17, 2013	Test Methods for EMS
RRA Announce 2014-2, Feb 4, 2014	Technical Requirements for Measurement of EM Field Strength
RRA Public Notification 2013-16, Nov 18, 2013	Technical Requirements for TTE



<i>Vietnam</i>	
<u>Test Method:</u>	<u>Type of Equipment, Service, or Amplifying Comments:</u>
QCVN 54:2011/BTTTT	RF 2.4 GHz Spread Spectrum
QCVN 65:2013/BTTTT	National technical regulation on radio access equipment operating in the 5 GHz band
TCVN 7317:2003 TCVN 7189:2009 TCVN 7317:2003	TTE Immunity Requirements Vietnam CISPR 22 Requirements
QCVN 14:2010/BTTTT QCVN 16:2010/BTTTT QCVN 18:2010/BTTTT QCVN 23:2011/BTTTT QCVN 25:2011/BTTTT QCVN 37:2011/BTTTT QCVN 41:2011/BTTTT QCVN 42:2011/BTTTT QCVN 43:2011/BTTTT QCVN 44:2011/BTTTT QCVN 45:2011/BTTTT QCVN 46:2011/BTTTT QCVN 48:2011/BTTTT QCVN 49:2011/BTTTT QCVN 54:2011/BTTTT QCVN 65:2013/BTTTT QCVN 66:2013/BTTTT	Radio equipment for fixed or land portable services
QCVN 18:2010/BTTTT QCVN 55:2011/BTTTT	RFID Equipment
QCVN 53:2011/BTTTT	Point-to-point SDH radio equipment
QCVN 11:2010/BTTTT	Mobile Station

* On-site test services are available for the standards listed under unlicensed ISM & UNII bands, Fixed Radio Services, Point-to-Point and Point-to-Multipoint and DFS

Note 1: When the date, revision or edition of a test method standard is not identified on the scope of accreditation, the laboratory is required to be using the current version within one year of the date of publication, per part C., Section 1 of the R101 - General Requirements- Accreditation of ISO-IEC 17025 Laboratories. If a specifier/regulator imposes a different transition period, this will supersede the A2LA one year implementation period.

Note 2: This accreditation covers testing performed at the laboratory listed above and the 10 m anechoic chamber located at 2305 Mission College Boulevard, Santa Clara, CA 95054. At this site, Radiated Emissions are tested at a measurement distance of 10m.





American Association for Laboratory Accreditation

Accredited Laboratory

A2LA has accredited

MICOM LABS

Pleasanton, 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 28th day of February 2014.

A handwritten signature in black ink, reading "Peter Abney".

President & CEO
For the Accreditation Council
Certificate Number 2381.01
Valid to November 30, 2015



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