



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ELECTRICAL

Valid To: July 31, 2023

Certificate Number: 5241.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to the laboratory listed above, *as well as the two satellite laboratories listed below*, to perform the following tests:

Test Technology:

Test Method(s) ²:

Emissions

Radiated and Conducted
(10m semi-anechoic chamber,
up to 40 GHz)

47 CFR, FCC Part 15B
(using ANSI C63.4:2014);
RSS-GEN

Radio

Maritime Radio Systems
STATIONS IN THE MARITIME SERVICES
(Occupied Bandwidth, Frequency Stability,
Transmitter Output Power, Transmitter
Unwanted Emissions, Receiver Spurious
Emissions as applicable)

47 CFR, FCC Part 80
(using ANSI/TIA-603-E-2016);
RSS-170;
RSS-182;
RSS-238

PRIVATE LAND MOBILE RADIO SERVICE
(Power and Antenna Height Limits,
Types of Emissions, Bandwidth Limitations,
Emission Masks, Frequency Stability,
Transmitter Measurement, Exemption from
Technical Standards)

47 CFR, FCC Part 90-I
(using ANSI/TIA-603-E-2016)

Radio / Intentional Radiators

47 CFR, FCC Parts 25, 30, 74, 87, 95, 97, and
101 (using ANSI/TIA-603-E-2016)

RF Exposure

(MPE only)

RSS-102 (RF Exposure); IEEE Std C95.3

Test Technology:

Test Method(s)²:

Automotive EMC

Conducted and Radiated Emissions

CISPR 12; EN 55012;
CISPR 25; JASO D 008; ECE R10 05;
ISO 14982; EN ISO 14982

Absorber-Lined Shielded Enclosure (ALSE)

ISO 11452-2

Bulk Current Injection (BCI)

ISO 11452-4

Electrostatic Discharge (ESD)

ISO 10605

Product Specific Automotive EMC

Earth-Moving and Building
Construction Machinery

ISO 13766-1; ISO 13766-2

¹ This accreditation covers testing performed at the main laboratory listed above, and the two satellite laboratories listed below:

NISHINOMIYA LABORATORY
9-52, Ashihara-Cho
Nishinomiya-shi, Hyogo, 662-8580, Japan

Test Technology:

Test Method(s)²:

Radio

Maritime Radio Systems
STATIONS IN THE MARITIME SERVICES
(Conducted Measurements only)
(Occupied Bandwidth, Frequency Stability,
Transmitter Output Power,
Transmitter Unwanted Emissions)

47 CFR, FCC Part 80
(using ANSI/TIA-603-E-2016);
RSS-GEN;
RSS-170;
RSS-182;
RSS-238

PRIVATE LAND MOBILE RADIO SERVICE
(Conducted Measurements only)
(Power and Antenna Height Limits,
Types of Emissions, Bandwidth Limitations,
Emission Masks, Frequency Stability,
Transmitter Measurement, Exemption from
Technical Standards)

47 CFR, FCC Part 90-I
(using ANSI/TIA-603-E-2016)

Radio / Intentional Radiators
(Conducted measurements only)

47 CFR, FCC Parts 25, 30, 74, 87, 95, 97, and
101 (using ANSI/TIA-603-E-2016)



NISHINOMIYA-HAMA LABORATORY
2-20, Nishinomiya-Hama
Nishinomiya-shi, Hyogo, 662-0934, Japan

Test Technology:

Test Method(s)²:

Radio

*(3m semi-anechoic chamber,
up to 40 GHz)*

Maritime Radio Systems
STATIONS IN THE MARITIME SERVICES
*(Occupied Bandwidth, Frequency Stability,
Transmitter Output Power, Transmitter
Unwanted Emissions, Receiver Spurious
Emissions as Applicable)*

47 CFR, FCC Part 80
(using ANSI/TIA-603-E-2016);
RSS-GEN;
RSS-170;
RSS-182;
RSS-238

PRIVATE LAND MOBILE
RADIO SERVICE
*(Power and Antenna Height Limits,
Types of Emissions, Bandwidth Limitations,
Emission Masks, Frequency Stability,
Transmitter Measurement, Exemption from
Technical Standards)*

47 CFR, FCC Part 90-I
(using ANSI/TIA-603-E-2016)

Radio / Intentional Radiators

47 CFR, FCC Parts 25, 30, 74, 87, 95, 97, and
101 (using ANSI/TIA-603-E-2016)

RF Exposure

(MPE only)

RSS-102 (RF Exposure); IEEE Std C95.3

On the following products or types of products:

Maritime Radio Transmitters and Receivers; Radar in the 2900-3100 MHz and 9225-9500 MHz Bands (Shipborne, River, Coastal Surveillance, Vessel Traffic Services, Harbor, Weather, etc.); Mobile Earth Stations (MESs) and Ancillary Terrestrial Component (ATC) Equipment Operating in the Mobile-Satellite Service (MSS) Bands; Automotive Electronic Devices, Machines and Vehicles

² When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA R101 - *General Requirements- Accreditation of ISO-IEC 17025 Laboratories.*

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1 ³:

| Rule Subpart/Technology | Test Method | Maximum Frequency (MHz) |
|--|---------------------|--------------------------------|
| <u>Unintentional Radiators</u> Part 15B | ANSI C63.4:2014 | 40000 |
| <u>Maritime and Aviation Radio Services</u> Parts 80 and 87 | ANSI/TIA-603-E-2016 | 40000 |
| <u>Microwave and Millimeter Wave Bands</u> <u>Radio Services</u> Parts 25, 30, 74, 90 (above 3 GHz), 95 (above 3 GHz), 97 (above 3 GHz), and 101 | ANSI/TIA-603-E-2016 | 40000 |

³ Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (<https://apps.fcc.gov/oetcf/eas/>) for a listing of FCC approved laboratories.



Accredited Laboratory

A2LA has accredited

LABOTECH INTERNATIONAL CO., LTD.

Nishinomiya-shi, Hyogo, Japan

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *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 April 2017).



Presented this 23rd day of August 2021.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5241.01
Valid to August 31, 2023

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