



Testing Laboratory
Accreditation
Certificate

Accreditation No. RTL03220



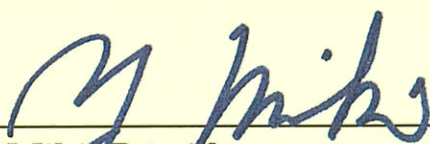
Labotech International Co., Ltd.

1-16 Fukazu-cho, Nishinomiya-shi, Hyogo, 663-8203, Japan

meets the following criteria. On the basis of this, Japan Accreditation Board (JAB) grants accreditation to the said testing laboratory.

Applicable accreditation criteria	: JIS Q 17025:2018 (ISO/IEC 17025:2017)
Scope of accreditation	: Electrical Testing (As described in the appendix)
Premises covered by accreditation	: As described in the appendix.
Expiry date of accreditation	: January 31, 2027

Revised	September 13, 2024
Renewed	February 1, 2025
Initial accreditation	January 14, 2011


Y. Miki / President
Japan Accreditation Board



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Type of Laboratory	Testing
Name of Laboratory	Labotech International Co., Ltd.
Address	1-16 Fukazu-cho, Nishinomiya-shi, Hyogo, 663-8203, Japan

1) Premises on which testing activities are performed

Name of Premises	Labotech EMC Center
Address	1-16 Fukazu-cho, Nishinomiya-shi, Hyogo, 663-8203, Japan
Testing service at permanent facilities or on site testing service	<input checked="" type="checkbox"/> Testing service at permanent facilities <input type="checkbox"/> On site testing service

Scope of Accreditation

FIELD	M21 Electrical Testing
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CODE OF CLASSIFICATION, NAME	TEST METHOD STANDARD
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.1 Continuous disturbance tests	CISPR 11 (except 10, Annex H), EN 55011 (except 10, Annex H) CISPR 22 (except 7), EN 55022 (except 7) CISPR 32 (except Table A.6, Table A.7, Table A.13) EN 55032 (except Table A.6, Table A.7, Table A.13) IEC 61000-6-3, EN 61000-6-3 IEC 61000-6-4, EN 61000-6-4 IEC 60945, EN 60945, JIS F 0812, EN 301 843-1 IEC 60601-1-2, EN 60601-1-2, JIS T 0601-1-2 IEC 61326-1, EN 61326-1, JIS C 1806-1 IEC 61326-2-6, EN 61326-2-6 IEC 62236-3-2 (except Table 1, 1.2), EN 50121-3-2 (except Table 1, 1.2) VCCI Technical requirements ANSI C63.4 : 2014 MP-5 (February 1986) FCC Part 15 Subpart B, FCC Part 18 EN 301 489-1, EN 301 489-17
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.4 Conducted emission tests at telecommunication ports	CISPR 22 (except 7), EN 55022 (except 7) CISPR 32 (except Table A.6, Table A.7, Table A.13) EN 55032 (except Table A.6, Table A.7, Table A.13) IEC 61000-6-3, EN 61000-6-3 IEC 61000-6-4, EN 61000-6-4 EN 301 489-1, EN 301 489-17 VCCI Technical requirements



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CODE OF CLASSIFICATION, NAME	TEST METHOD STANDARD
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.5 Magnetic/Electric field test(up to 30MHz)	CISPR 11 (except 10, Annex H) EN 55011 (except 10, Annex H) IEC 60945, EN 60945, JIS F 0812 IEC 60601-1-2, EN 60601-1-2, JIS T 0601-1-2 MP-5 (February 1986) FCC Part 18 EN 302 248
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.6 Electric field test(30MHz to 1GHz)	CISPR 11(except 10, Annex H), EN 55011 (except 10, Annex H), CISPR 22 (except 7), EN 55022 (except 7) CISPR 32 (except Table A.6, Table A.7, Table A.13) EN 55032 (except Table A.6, Table A.7, Table A.13) IEC 61000-6-3, EN 61000-6-3 IEC 61000-6-4, EN 61000-6-4 IEC 60945, EN 60945, JIS F 0812 EN 301 843-1 IEC 60601-1-2, EN 60601-1-2, JIS T 0601-1-2 IEC 61326-1, EN 61326-1, JIS C 1806-1 IEC 61326-2-6, EN 61326-2-6 IEC 62236-3-2 (except 1.2 of Table 1), EN 50121-3-2 (except 1.2 of Table 1) VCCI Technical requirements ANSI C63.4 : 2014 MP-5 (February 1986) FCC Part 15 Subpart B, FCC Part 18 EN 302 248 EN 301 489-1, EN 301 489-17
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.7 Electric field test(1GHz and over)	CISPR 11(except 10, Annex H), EN 55011 (except 10, Annex H), CISPR 22 (except 7), EN 55022 (except 7) CISPR 32 (except Table A.6, Table A.7, Table A.13) EN 55032 (except Table A.6, Table A.7, Table A.13) IEC 60945, EN 60945, JIS F 0812 EN 301 843-1 IEC 60601-1-2, EN 60601-1-2, JIS T 0601-1-2 IEC 62236-3-2 (except 1.2 of Table 1), EN 50121-3-2 (except 1.2 of Table 1) VCCI Technical requirements ANSI C63.4 : 2014 MP-5 (February 1986) FCC Part 15 Subpart B, FCC Part 18 IEC 61000-6-3, EN 61000-6-3 IEC 61000-6-4, EN 61000-6-4 EN 302 248 EN 301 489-1, EN 301 489-17



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CODE OF CLASSIFICATION, NAME	TEST METHOD STANDARD
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.10 Harmonic current emission tests	IEC 61000-3-2, EN 61000-3-2, JIS C 61000-3-2 IEC 61000-6-3, EN 61000-6-3 IEC 60601-1-2, EN 60601-1-2, JIS T 0601-1-2 IEC 61326-1, EN 61326-1, JIS C 1806-1 EN 301 489-1, EN 301 489-17
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.12 Voltage fluctuation and flicker tests	IEC 61000-3-3, EN 61000-3-3 IEC 61000-6-3, EN 61000-6-3 IEC 60601-1-2, EN 60601-1-2, JIS T 0601-1-2 IEC 61326-1, EN 61326-1 EN 301 489-1, EN 301 489-17
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.14 Electrostatic discharge immunity tests	IEC 61000-4-2, EN 61000-4-2 IEC 61000-6-1, EN 61000-6-1 IEC 61000-6-2, EN 61000-6-2 IEC 60945, EN 60945, JIS F 0812 EN 301 843-1 IEC 60601-1-2, EN 60601-1-2, JIS T 0601-1-2 IEC 61326-1, EN 61326-1, JIS C 1806-1 IEC 61326-2-6, EN 61326-2-6 IEC 62236-3-2, EN 50121-3-2 CISPR 14-2, EN 55014-2 CISPR 35, EN 55035 EN 301 489-1, EN 301 489-17
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.15 RF radiated electromagnetic field immunity tests	IEC 61000-4-3, EN 61000-4-3 IEC 61000-6-1, EN 61000-6-1 IEC 61000-6-2, EN 61000-6-2 IEC 60945, EN 60945, JIS F 0812 EN 301 843-1 IEC 60601-1-2, EN 60601-1-2, JIS T 0601-1-2 IEC 61326-1, EN 61326-1, JIS C 1806-1 IEC 61326-2-6, EN 61326-2-6 IEC 62236-3-2, EN 50121-3-2 CISPR 14-2, EN 55014-2 CISPR 35, EN 55035 EN 301 489-1, EN 301 489-17



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CODE OF CLASSIFICATION, NAME	TEST METHOD STANDARD
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.16 Electrical fast transient/burst immunity tests	IEC 61000-4-4, EN 61000-4-4 IEC 61000-6-1, EN 61000-6-1 IEC 61000-6-2, EN 61000-6-2 IEC 60945, EN 60945, JIS F 0812 EN 301 843-1 IEC 60601-1-2, EN 60601-1-2, JIS T 0601-1-2 IEC 61326-1, EN 61326-1, JIS C 1806-1 IEC 61326-2-6, EN 61326-2-6 IEC 62236-3-2, EN 50121-3-2 CISPR 14-2, EN 55014-2 CISPR 35, EN 55035 EN 301 489-1, EN 301 489-17
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.17 Surge immunity tests	IEC 61000-4-5, EN 61000-4-5 IEC 61000-6-1, EN 61000-6-1 IEC 61000-6-2, EN 61000-6-2 IEC 60945, EN 60945, JIS F 0812 EN 301 843-1 IEC 60601-1-2, EN 60601-1-2, JIS T 0601-1-2 IEC 61326-1, EN 61326-1, JIS C 1806-1 IEC 61326-2-6, EN 61326-2-6 IEC 62236-3-2, EN 50121-3-2 CISPR 14-2, EN 55014-2 CISPR 35, EN 55035 EN 301 489-1, EN 301 489-17
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.18 RF conducted immunity tests	IEC 61000-4-6, EN 61000-4-6 IEC 61000-6-1, EN 61000-6-1 IEC 61000-6-2, EN 61000-6-2 IEC 60945, EN 60945, JIS F 0812 EN 301 843-1 IEC 60601-1-2 (expect BCI method), EN 60601-1-2 (expect BCI method), JIS T 0601-1-2 (expect BCI method) IEC 61326-1, EN 61326-1, JIS C 1806-1 IEC 61326-2-6, EN 61326-2-6 IEC 62236-3-2, EN 50121-3-2 CISPR 14-2, EN 55014-2 CISPR 35, EN 55035 EN 301 489-1, EN 301 489-17



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CODE OF CLASSIFICATION, NAME	TEST METHOD STANDARD
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.19 Power frequency magnetic field immunity tests	IEC 61000-4-8, EN 61000-4-8 IEC 61000-6-1, EN 61000-6-1 IEC 61000-6-2, EN 61000-6-2 IEC 60601-1-2, EN 60601-1-2, JIS T 0601-1-2 IEC 61326-1, EN 61326-1, JIS C 1806-1 IEC 61326-2-6, EN 61326-2-6 CISPR 35, EN 55035
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.20 A.C. power supply fluctuation immunity tests	IEC 61000-4-11, EN 61000-4-11 IEC 61000-6-1 (up to 16 A), EN 61000-6-1 (up to 16 A) IEC 61000-6-2, EN 61000-6-2 IEC 60945, EN 60945, JIS F 0812 EN 301 843-1 IEC 60601-1-2, EN 60601-1-2, JIS T 0601-1-2 IEC 61326-1, EN 61326-1, JIS C 1806-1 IEC 61326-2-6, EN 61326-2-6 CISPR 14-2, EN 55014-2 CISPR 35, EN 55035 EN 301 489-1, EN 301 489-17
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.23 Test for immunity to conducted, disturbance in the frequency range 0Hz to 150kHz	IEC 60945:1996 10.2, EN 60945:1997 10.2
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.25 Voltage dips, short interruptions and voltage variations on DC input power port immunity tests	IEC 60945 10.8, EN 60945 10.8, JIS F 0812 10.8
M21 Electrical testing M21.27 Radio Transmitter tests M21.27.1 Frequency	FCC Part 2.1055, 25.202, 74.861, 80.209, 80.213, 87.133, 90.213, 90.215, 101.107 ANSI/TIA-603-E EN 302 248, EN 303 135 V2.1.1
M21 Electrical testing M21.27 Radio Transmitter tests M21.27.2 Occupied frequency bandwidth	FCC Part 2.1049, 74.861, 80.209, 80.211, 87.135, 87.137, 87.139, 90.209, 90.210, 101.109



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CODE OF CLASSIFICATION, NAME	TEST METHOD STANDARD
M21 Electrical testing M21.27 Radio Transmitter tests M21.27.3 Spurious emission intensity	FCC Part 2.1051, 2.1053, 2.1057, 25.204, 74.861, 80.211, 80.217, 80.273, 87.139, 90.210, 101.111 ANSI/TIA-603-E EN 302 248, EN 303 135 V2.1.1
M21 Electrical testing M21.27 Radio Transmitter tests M21.27.4 Antenna power	FCC Part 2.1046, 25.204, 25.216, 74.861, 80.215, 80.855, 80.873, 80.909, 80.911, 80.959, 87.131, 90.205, 90.215, 90.217, 101.113 ANSI/TIA-603-E EN 302 248, EN 303 135 V2.1.1
M21 Electrical testing M21.27 Radio Transmitter tests M21.27.8 Carrier-wave power	FCC Part 2.1046, 30.202, 80.215, 87.131, 95.3167 ANSI/TIA-603-E EN 302 248
M21 Electrical testing M21.27 Radio Transmitter tests M21.27.11 Transmission rise time and transmission fall time	FCC Part 2.1047, 80.213, 87.141, 90.207
M21 Electrical testing M21.27 Radio Transmitter tests M21.27.12 Adjacent channel leakage power or out-band leakage power	FCC Part 2.1051, 2.1053, 2.1057, 80.211, 80.273, 87.139, 90.210 ANSI/TIA-603-E EN 302 248, EN 303 135 V2.1.1
M21 Electrical testing M21.28 Radio Receiver tests M21.28.1 Limit of radio waves which are secondarily emitted	FCC Section 2.1051, 2.1053, 2.1057, 80.217, 90.210 ANSI/TIA-603-E
M21 Electrical testing M21.28 Radio Receiver tests M21.28.5 Spurious response	EN 303 135 V2.1.1
M21 Electrical testing M21.41 Accreditation Scope of EMC laboratory for FCC M21.41.1 Unintentional Radiators (FCC Part 15, Subpart B)	ANSI C63.4-2014 (Measurement frequency : up to 40 GHz)



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CODE OF CLASSIFICATION, NAME	TEST METHOD STANDARD
M21 Electrical testing M21.41 Accreditation Scope of EMC laboratory for FCC M21.41.2 Industrial, Scientific, and Medical Equipment (FCC Part 18) · Consumer ISM equipment	FCC MP-5 (February 1986) (Measurement frequency : up to 40 GHz)
M21 Electrical testing M21.41 Accreditation Scope of EMC laboratory for FCC M21.41.13 Maritime and Aviation Radio Services (FCC Licensed Radio Service Equipment) · Part 80 · Part 87	· ANSI/TIA-603-E-2016; [1] or · ANSI C63.26-2015 (Measurement frequency : up to 40 GHz)
M21 Electrical testing M21.41 Accreditation Scope of EMC laboratory for FCC M21.41.14 Microwave and Millimeter Bands Radio Services (FCC Licensed Radio Service Equipment) · Part 25 · Part 30 · Part 74 · Part 90 (above 3 GHz) · Part 95 (above 3 GHz) · Part 97 (above 3 GHz) · Part 101	· ANSI/TIA-603-E-2016; [1] or · ANSI/TIA-102.CAAA-E-2016; [1] or · ANSI C63.26-2015 (Measurement frequency : up to 40 GHz)