



Accreditation No.	RTL03220
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Accreditation Certificate

Appendix

(Page 11/25)

Type of Laboratory	Testing Laboratory
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	Nishinomiya-Hama Lab.		
Address of Premises	Postal code	662-0934	
	Address	2-20 Nishinomiya-Hama, Nishinomiya-shi, Hyogo, 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 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
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 EN 302 248



Accreditation No.	RTL03220
-------------------	----------

Accreditation Certificate

Appendix

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

CODE OF CLASSIFICATION, NAME	TEST METHOD STANDARD
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 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 VCCI Technical requirements 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
M21 Electrical testing M21.5 Environmental testing M21.5.18 Vibration tests(sinusoidal)	IEC 60068-2-6 (7, 9, and 11 are limited to visual check by viewing and operation check by electricity. Horizontal: Frequency range 2Hz to 400Hz, Acceleration range $\leq 100\text{m/s}^2$ Displacement range $\leq 45\text{mm}$ p-p, Vertical: Frequency range 2Hz to 400Hz, Acceleration range $\leq 100\text{m/s}^2$ Displacement range $\leq 45\text{mm}$ p-p), EN 60068-2-6 (7, 9 and 11 are limited to visual check by viewing and operation check by electricity. Horizontal: Frequency range 2Hz to 400Hz, Acceleration range $\leq 100\text{m/s}^2$ Displacement range $\leq 45\text{mm}$ p-p, Vertical: Frequency range 2Hz to 400Hz, Acceleration range $\leq 100\text{m/s}^2$ Displacement range $\leq 45\text{mm}$ p-p), JIS C 60068-2-6 (7, 9, and 11 are limited to visual check by viewing and operation check by electricity. Horizontal: Frequency range 2Hz to 400Hz, Acceleration range $\leq 100\text{m/s}^2$ Displacement range $\leq 45\text{mm}$



Accreditation No.	RTL03220
-------------------	----------

Accreditation Certificate

Appendix

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CODE OF CLASSIFICATION, NAME	TEST METHOD STANDARD
	P-p, Vertical: Frequency range 2Hz to 400Hz, Acceleration range $\leq 100\text{m/s}^2$ Displacement range $\leq 45\text{mm p-p}$), IEC 60945, EN 60945, JIS F 0812
M21 Electrical testing M21.5 Environmental testing M21.5.1 Cold tests	IEC 60068-2-1 (6.8, 6.10, and 6.13 are limited to visual check by viewing and operation check by electricity. Test Ab Temperature range $-40\text{ }^\circ\text{C}$ to $+5\text{ }^\circ\text{C}$), EN 60068-2-1 (6.8, 6.10, and 6.13 are limited to visual check by viewing and operation check by electricity. Test Ab Temperature range $-40\text{ }^\circ\text{C}$ to $+5\text{ }^\circ\text{C}$), JIS C 60068-2-1 (6.8, 6.10, and 6.13 are limited to visual check by viewing and operation check by electricity. Test Ab Temperature range $-40\text{ }^\circ\text{C}$ to $+5\text{ }^\circ\text{C}$), IEC 60945, EN 60945, JIS F 0812
M21 Electrical testing M21.5 Environmental testing M21.5.2 Dry heat tests	IEC 60068-2-2 (6.7, 6.9, and 6.13 are limited to visual check by viewing and operation check by electricity. Test Bb Temperature range $\leq 100\text{ }^\circ\text{C}$), EN 60068-2-2 (6.7, 6.9, and 6.13 are limited to visual check by viewing and operation check by electricity. Test Bb Temperature range $\leq 100\text{ }^\circ\text{C}$), JIS C 60068-2-2 (6.7, 6.9, and 6.13 are limited to visual check by viewing and operation check by electricity. Test Bb Temperature range $\leq 100\text{ }^\circ\text{C}$), IEC 60945, EN 60945, JIS F 0812
M21 Electrical testing M21.5 Environmental testing M21.5.6 Damp Heat tests, cyclic (12+12-Hour cycle)	IEC 60068-2-30 (6, 8, 10 are limited to visual check by viewing and operation check by electricity.), EN 60068-2-30 (6, 8, 10 are limited to visual check by viewing and operation check by electricity.), JIS C 60068-2-30 (6, 8, 10 are limited to visual check by viewing and operation check by electricity.), IEC 60945, EN 60945, JIS F 0812
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 RSS-Gen, RSS-170, RSS-181, RSS-182, RSS-238 EN 302 248, EN 303 135
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 RSS-Gen, RSS-182



Accreditation No.

RTL03220

Accreditation Certificate
Appendix

(Page 14/25)

Type of Laboratory	Testing Laboratory
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Address	1-16, Fukazu-cho, Nishinomiya-shi, Hyogo, 663-8203 Japan

CODE OF CLASSIFICATION, NAME	TEST METHOD STANDARD
M21 Electrical testing M21.27 Radio Transmitter tests	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
M21.27.3 Spurious emission intensity	RSS-Gen, RSS-170, RSS-181, RSS-182, RSS-238 EN 302 248, EN 303 135
M21 Electrical testing M21.27 Radio Transmitter tests	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
M21.27.4 Antenna power	RSS-Gen, RSS-170, RSS-181, RSS-182, RSS-238 EN 302 248, EN 303 135
M21 Electrical testing M21.27 Radio Transmitter tests	FCC Part 2.1046, 30.202, 80.215, 87.131, 95.3167 ANSI/TIA-603-E
M21.27.8 Carrier-wave power	RSS-Gen, RSS-170, RSS-181, RSS-182, RSS-238 EN 302 248
M21 Electrical testing M21.27 Radio Transmitter tests	FCC Part 2.1047, 80.213, 87.141, 90.207 RSS-238
M21.27.11 Transmission rise time and transmission fall time	
M21 Electrical testing M21.27 Radio Transmitter tests	FCC Part 2.1051, 2.1053, 2.1057, 80.211, 80.273, 87.139, 90.210 ANSI/TIA-603-E
M21.27.12 Adjacent channel leakage power or out-band leakage power	RSS-Gen, RSS-181, RSS-182, RSS-238 EN 302 248, EN 303 135
M21 Electrical testing M21.28 Radio Receiver tests	FCC Section 2.1051, 2.1053, 2.1057, 80.217, 90.210 ANSI/TIA-603-E
M21.28.1 Limit of radio waves which are secondarily emitted	RSS-Gen, RSS-170, RSS-181, RSS-182
M21 Electrical testing M21.28 Radio Receiver tests	EN 303 135
M21.28.5 Spurious response	



Accreditation No.	RTL03220
-------------------	----------

Accreditation Certificate

Appendix

(Page 15/25)

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

CODE OF CLASSIFICATION, NAME	TEST METHOD STANDARD
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) <ul style="list-style-type: none">• Part 80• Part 87	<ul style="list-style-type: none">• ANSI/TIA-603-E-2016; [1] or• ANSI C63.26-2015 <p>(Measurement frequency : up to 40 GHz)</p>
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) <ul style="list-style-type: none">• Part 25• Part 30• Part 74• Part 90 (above 3 GHz)• Part 95 (above 3 GHz)• Part 97 (above 3 GHz)• Part 101	<ul style="list-style-type: none">• ANSI/TIA-603-E-2016; [1] or• ANSI/TIA-102.CAAA-E-2016; [1] or• ANSI C63.26-2015 <p>(Measurement frequency : up to 40 GHz)</p>