

## Details regarding VLAC-001(Branch #3) Site

Accreditation No.	VLAC-001-3
Laboratory Name	Japan Quality Assurance Organization
Site Name	Shikatsu Branch
Address	53-1, Yamaura, Yakushizi, Kitanagoya-shi, Aichi-ken
Responsible Person	Yatsuhiko Onomatsu
TEL	0568-23-0023
FAX	0568-23-0116

### - SCOPE OF ACCREDITATION -

#### **【Measurement Method】**

##### **Emission Test**

Radiated disturbance: Enclosure Port

Radiated field strength measurement ( CISPR 16-2-3, ANSI C63.4:2003 )

{ Test Condition } \* On the ground reference plane, Measurement distance: 3m, 10m  
Frequency Range ( 30MHz ~ 40GHz )

{ Test Facilities } Shikatsu Branch Anechoic Chamber

{ Test Condition } Quasi Free Space, Frequency Range ( 1GHz ~ 6GHz )

{ Test Facilities } Shikatsu Branch Anechoic Chamber

Radiated magnetic field strength measurement ( CISPR16-2-3 )

{ Test Condition } Loop antenna (CISPR16-1-4)

{ Test Facilities } Shikatsu Branch Anechoic Chamber

Disturbance power measurement ( CISPR16-2-2 )

{ Test Condition } Clamp (CISPR16-1-3)

{ Test Facilities } Shikatsu Branch Anechoic Chamber

Conducted disturbance measurement: AC mains port

Disturbance voltage measurement ( CISPR 16-2-1, ANSI C63.4:2003 )

{ Test Condition } AMN, High-impedance Probe ( CISPR 16-1-2 )

{ Test Facilities } Shikatsu Branch Anechoic Chamber, Shielded Room 1, Shielded Room 2

Conducted disturbance measurement: Telecommunications port

Disturbance voltage measurement ( CISPR 22 Clause 9.6 and Annex C )

{ Test Condition } AAN ( CISPR 16-1-2 )

Disturbance current measurement ( CISPR 22 Clause 9.6 and Annex C )

{ Test Condition } Current probe ( CISPR 16-1-2 )

{ Test Facilities } Shikatsu Branch Anechoic Chamber, Shielded Room 1, Shielded Room 2

Conducted disturbance measurement: DC mains port

Disturbance voltage measurement ( CISPR 16-2-1, ANSI C63.4:2003 )

{ Test Condition } High-impedance Probe ( CISPR 16-1-2 )

{ Test Facilities } Shikatsu Branch Anechoic Chamber, Shielded Room 1, Shielded Room 2

##### **Immunity Test**

ESD (IEC61000-4-2), Radiated electromagnetic field strength (IEC61000-4-3),

EFT/B (IEC61000-4-4): AC mains port/Telecommunications port,

Surge (IEC61000-4-5): AC mains port/Telecommunications port,

RF conducted (IEC61000-4-6): AC mains port/Telecommunications port,

Power frequency magnetic field (IEC61000-4-8),

Interruptions and voltage variations/dip (IEC61000-4-11)

{ Test Facilities } Shikatsu Branch Anechoic Chamber, Small Anechoic Chamber (All Immunity tests above)  
Shielded Room 1 & Shielded Room 2 (Except Radiated field immunity test)

##### **Harmonic Test in Public Low Voltage Systems**

Harmonic current (IEC61000-3-2), Voltage fluctuations and flicker (IEC61000-3-3)

{ Test Facilities } Shikatsu Branch; Front space of Anechoic Chamber

##### **Telecommunications Equipment Performance Test 2**

Magnetic Field Measurement

{ Test Condition } Magnetic Field Probe

{ Test Facilities } Shikatsu Branch Anechoic Chamber, Small Anechoic Chamber  
Shielded Room 1, Shielded Room 2

## ***【Measurement Standards】***

### **Emission Test**

V-3 : VCCI Technical Requirement

FCC 47CFR/Part15 Subpart B & C/ANSI C63.4 (2003) , FCC 47CFR/Part18/MP-5

CISPR11, CISPR12, CISPR14-1, CISPR22, EN55011, EN55012, EN55014-1, EN55022

CISPR13/J55013/EN55013/AS/NZS CISPR13 (test for Auxiliary equipment only)

Technical requirement of Electrical Appliances and Material Safety Act for the disturbance noise level:

Clause 1 of Ministerial Ordinance (Chapter 2, 3, 4, 5, 7 and 8)

J55001, J55011, J55014-1, J55022,

AS/NZS CISPR11, AS/NZS CISPR12, AS/NZS CISPR14.1, AS/NZS CISPR22

AS/NZS 61000.6.3, AS/NZS 61000.6.4, GOST R51318.11, GOST R51318.14.1, GOST R51318.22

ICES-001, ICES-003, CNS13803, CNS13438, CNS13439, EN60947-5-2, K00022, GB9254

IEC61000-6-3, IEC61000-6-4, EN61000-6-3, EN61000-6-4

IEC60601-1-2(Particular requirement IEC60601-2 series), EN60601-1-2((Particular requirement EN60601-2 series)

JIS T0601-1-2(Particular requirement JIS T0601-2 series)

IEC61326-1(Particular requirement IEC61326-2 series), EN61326-1(Particular requirement EN61326-2 series),

JIS C1806-1

IEC60533, IEC60945, Nippon Kaiji Kyokai Technical rule of Materials and Equipment for Marine Use:

Article 7 Chapter 1 (Rules for the Automatic and Remote control)

### **Immunity Test**

CISPR14-2, CISPR24, EN55014-2, EN55024

IEC61000-6-1, IEC61000-6-2, EN61000-6-1, EN61000-6-2

JIS C61000-6-1, JIS C61000-6-2, JEITA IT-3001, EN60947-5-2, K00014-2

AS/NZS CISPR14.2, AS/NZS CISPR24, AS/NZS 61000.6.1, AS/NZS 61000.6.2

GOST R51318.14.2, GOST R51318.24

IEC60601-1-2(Particular requirement IEC60601-2 series), EN60601-1-2((Particular requirement EN60601-2 series)

JIS T0601-1-2(Particular requirement JIS T0601-2 series)

IEC61326-1(Particular requirement IEC61326-2 series), EN61326-1(Particular requirement EN61326-2 series),

JIS C1806-1

### **Harmonic Test in Public Low Voltage Systems**

IEC61000-3-2, JIS C61000-3-2, EN61000-3-2, IEC61000-3-3, EN61000-3-3

AS/NZS 61000.3.2, AS/NZS 61000.3.3, AS/NZS 61000.6.3, AS/NZS 61000.6.4

IEC61000-6-3, IEC61000-6-4, EN61000-6-3, EN61000-6-4

GB17625.1, GOST R51317.3.2, GOST R51317.3.3

IEC60601-1-2(Particular requirement IEC60601-2 series), EN60601-1-2((Particular requirement EN60601-2 series)

JIS T0601-1-2(Particular requirement JIS T0601-2 series)

IEC61326-1(Particular requirement IEC61326-2 series), EN61326-1(Particular requirement EN61326-2 series),

JIS C1806-1

### **Telecommunications Equipment Performance Test 2**

IEC62233, EN62311