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ZACTA Technology Corporation Yonezawa Testing Center 4149-7 Hachimanpara 5-chome Yonezawa-shi Yamagata 992-1128 Japan

Phone: +81-238-28-2880 Fax: +81-238-28-2888

TEST REPORT

Report No.: Z071C-07532 Issue Date: March 27, 2008

The device, as described herewith, was tested pursuant to applicable test procedure indicated below and complies with the requirements of;

FCC Part15 Subpart C

The test results are traceable to the international or national standards.

Applicant : MIWA LOCK CO., LTD.

3-1-12, SHIBA, MINATO-KU, TOKYO 105-8510, JAPAN

Phone: +81-3-3452-1463 Fax.: +81-3-3452-3662

Equipment under test (EUT)

ALVH ENTRANCE READER

FCC ID

VBU-ALVHDCU

Model Number

ALVHDCU · DP

Serial Number

N/A

EUT Condition

Pre-production

Test procedure

ANSI C63.4-2003

Date of test

March 17,26 2008

Test place

: 3m Semi-anechoic chamber, Site 2

Test results

: Complied

Zacta Technology Corporation certifies that no party to the application is subject to a denial of federal benefits that include FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988,21U.S.C. 853(a).

The results in this report are applicable only to the samples tested.

This report shall not be re-produced except in full without the written approval of ZACTA Technology Corporation.

This test report must not be used by client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Tested by:

Authorized by:

Hiroaki Suzuki

Jun Shimanuki

General Manager of Technical Division

NVLAP LAB CODE 200306-0

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1. Summary of Test

1.1 Purpose of test

It is the original test in order to verify conformance to FCC Part 15 Subpart C rules listed in Table A.

1.2 Summary of test results

Table-A: List of the measurements

| Test Items | | Test Items | | | Condition | Result | |
|------------|----------------------|-------------|--------------|-------------|-----------|--------|--|
| Section | Transmit mode [Tx]: | | Limit | | Condition | Result | |
| | | MHz | Limits[uV] | Distance[m] | | | |
| | | 0.009-0.490 | 2400/F(kHz) | 300 | | | |
| | | 0.490-1.705 | 24000/F(kHz) | 30 | | Pass | |
| 15.209 | Transmitter radiated | 1.705-30.0 | 30 | 30 | Radiated | | |
| 13.209 | spurious emissions | 30-88 | 100 | 3 | | | |
| | | 88-216 | 150 | 3 | | | |
| | | 216-960 | 200 | 3 | | | |
| | | Above 960 | 500 | 3 | | | |
| | | MHz | QP[dBuV] | AV[dBuV] | | | |
| 15 207 | AC power line | 0.15-0.50 | 66-56 | 56-46 | C | D | |
| 15.207 | conducted emissions | 0.50-5 | 56 | 46 | Conducted | Pass | |
| | | 5-30 | 60 | 50 | | | |

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2. Equipment description

2.1 EUT information

| No. | EUT | Company | Model No. | Serial No. | FCC ID/DoC | Comment |
|-----|-------------------------|-----------|-------------|------------|-------------|---------|
| 1 | ALVH ENTRANCE READER | MIWA LOCK | ALVHDCU• DP | N/A | VBU-ALVHDCU | EUT |

Oscillator(s)/Crystal(s) : 14.7456MHz

Power ratings : DC 3.0V

Port(s) : DC in

I/O

Size : (W) 120 x (H) 162 x (D) 58.8 mm

Operating mode : Transmit mode

Variation of model(s) : Not applicable

[RF Specification]

Frequency Range : 14.7456MHz Antenna (Rx and Tx) : Integral antenna

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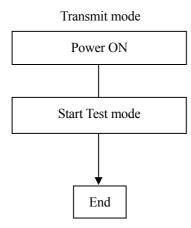
2.2 Operating flow

2.2.1 Operating condition

The test was carried out under the following conditions during the test.

2.2.2 Test mode

Following programs were performed continuously.



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3. Configuration information

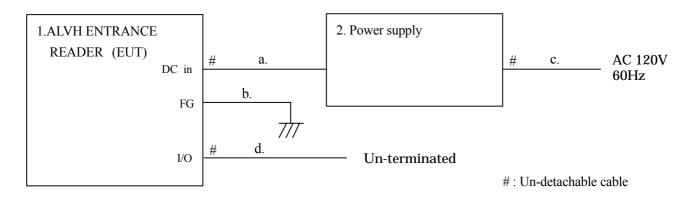
3.1 Peripheral(s) used

| | No. | Equipment | Company | Model No. | Serial No. | DoC / FCC ID | Comment |
|---|-----|--------------|-------------------------|-----------|------------|--------------|---------|
| - | 2 | Power supply | Agilent Technologies | 6236B | 02140320 | N/A | - |

3.2 Cable(s) information

| No. | Cable | Length [m] | Shield | Connector | From | То | Comment |
|-----|---------------|------------|------------|-----------|--------------|--------------|-----------|
| a | DC cable | 1.2 | Unshielded | Plastic | EUT | Power supply | - |
| b | FG cable | 3.5 | Unshielded | Plastic | EUT | Ground plane | Accessory |
| c | AC cable | 2.0 | Unshielded | Plastic | Power supply | AC outlet | - |
| d | Control cable | 0.06 | Unshielded | Plastic | EUT | - | - |

3.3 System configuration



Note 1: Numbers assigned to equipment or cables on this diagram are corresponded to the list in "2.1 EUT information", "3.1 Peripheral(s) used and "3.2 Cable(s) information".

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4. Test Instruments

List of Measuring Instruments

| Equipment | Company | Model No. | Serial No. | Cal. due | Cal. date |
|--------------------------------------|---------------------------|--------------------------|-------------|-----------|---------------|
| Spectrum Analyzer (9kHz – 3.0GHz) | Agilent Technologies | E4403B | MY44212805 | Oct. 2008 | Oct. 3, 2007 |
| Preamplifier (100kHz-1.2GHz) | ANRITSU | MH648A | M96057 | Jun. 2008 | Jun. 25, 2007 |
| Preamplifier (1GHz-26.5GHz) | Agilent Technologies | 8449B | 3008A01008 | Dec. 2009 | Dec. 11, 2007 |
| EMI Receiver | ROHDE&SCHWARZ | ESCI | 100451 | May. 2008 | May. 10, 2007 |
| Loop Antenna | ROHDE&SCHWARZ | HFH2-Z2 | 891847/17 | Feb. 2009 | Feb. 14,2008 |
| Biconical Antenna | Schwarzbeck | VHA9103/BBA9106 | 2323 | Jun. 2008 | Jun. 16, 2007 |
| Attenuator(6dB) | TDC | TAT-43B-06 | N/A | Jun. 2008 | Jun. 22, 2007 |
| Log Periodic Antenna | Schwarzbeck | UHALP9108A | 0589 | Jun. 2008 | Jun. 16, 2007 |
| Attenuator(3dB) | TDC | TAT-43B-03 | N/A | Aug. 2008 | Aug. 8, 2007 |
| | | 5D-2W/10m | #AEC3R-001 | Feb. 2009 | Feb. 14, 2008 |
| Coaxial cable | Fujikura | 5D-2W/1.5m | #AEC3RC-001 | Feb. 2009 | Feb. 14, 2008 |
| Coaxiai cable | гијікига | 5D-2W/1m | #AEC3RC-002 | Feb. 2009 | Feb. 14, 2008 |
| | | 5D-2W/1m | #AEC3RC-003 | Feb. 2009 | Feb. 14, 2008 |
| Coaxial cable | N/A | N/A | N/A | Apr. 2008 | Apr. 1, 2007 |
| Coaxial Switch | ANRITSU | MP59B | 6200611581 | Feb. 2009 | Feb. 14, 2008 |
| Site attenuation | ZACTA Technology Corp. | 3m Semi-anechoic chamber | N/A | May. 2008 | May. 12, 2007 |

^{*}The calibrations of the above equipment are traceable to NIST or equivalent standards of the reference organizations.

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5. Test Type and Results

5.1 Transmitter Radiated Spurious Emissions (9kHz-1000MHz)

5.1.1 Test Procedure [FCC 15.209]

Radiated emission measurements are performed at 3m distance with the broadband antenna (Loop antenna, Biconical antenna, log-periodic antenna.). The antenna is positioned both the horizontal and vertical planes of polarization and height is varied 1 to 4 meters and stopped at height producing the maximum emission. As for the Loop antenna, it is positioned with its plane vertical, and the center of the Loop is 1.0meter above the ground plane. Frequency Range: 9kHz –1GHz is scanned and investigated with the test receiver, and above 1GHz, with the spectrum analyzer. The detector function of the test receiver is set to CISPR Quasi-peak mode and the bandwidth is set to 9kHz (below 30MHz) and 120kHz (above 30MHz).

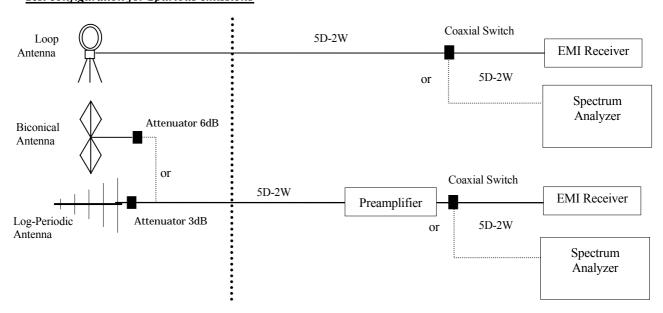
The EUT and support equipment are placed on a 1 meter x 2.0 meter surface, 0.8 meter height FRP table. The turntable and the loop antenna are rotated by 360 degrees and stopped at azimuth of producing the maximum emission.

Interconnecting cables, which hanging closer than 40cm to the horizontal metal ground plane are bundled its excess in center. The test results represent the worst-case emission for each emission with manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation.

Sufficient time for the EUT, support equipment, and test equipment are allowed in order for them to warm up to their normal operating condition.

5.1.2 Test Instruments and Measurement Setup

Test configuration for Spurious emissions



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5.1.3 Limit of Spurious Emission Measurement

| Frequency | Field Str | ength |
|---------------|-----------------|---------------|
| [MHz] | [uV/m] | [dBuV/m] |
| 0.009 - 0.490 | 2400 / F [kHz] | 20logE [uV/m] |
| 0.490 - 1.705 | 24000 / F [kHz] | 20logE [uV/m] |
| 1.705-30 | 30 | 29.5 |
| 30 – 88 | 100 | 40.0 |
| 88 – 216 | 150 | 43.5 |
| 216 – 960 | 200 | 46.0 |
| Above 960 | 500 | 54.0 |

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $[dBuV/m] = 20 \log Emission [uV/m]$

5.1.4 Sample of field strength calculation

Spurious Emission $dB\mu V/m = 20log_{10} (\mu V/m)$

Limit @147.6MHz = $150\mu V/m = 43.5dB\mu V/m$

Reading = $42.8 dB \mu V$

Ant. Factor + Cable Loss - Amp. Gain = 14.2 + 3.0 - 30.0 = -12.8dB

Total = $42.8 - 12.8 = 30.0 dB \mu V/m$

Margin = 43.5 - 30.0 = 13.5dB

5.1.5 Measurement Result

 Test Personnel:
 Date
 : Mar. 17, 2008

 Tested by:
 Hiroaki Suzuki
 Temperature Humidity
 : 22.3 [°C]

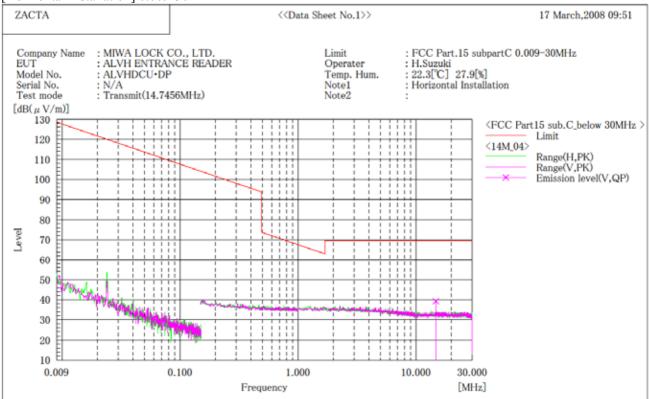
Test place : 3m Semi-anechoic chamber

1) 0.009-30MHz

| Frequency | Le | vel | Limit | Margin | Result | |
|-----------|----------------------------|-----------------------------|----------|----------|--------|--|
| [MHz] | Measured at 3m [dBuV/m] | Measured at 30m [dBuV/m] | [dBuV/m] | [dBuV/m] | Result | |
| 14.750 | 39.9 | -0.1 | 29.5 | 29.6 | PASS | |

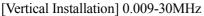
Note. Measurements were corrected to 30m using 40log(3/30) = -40.0dB

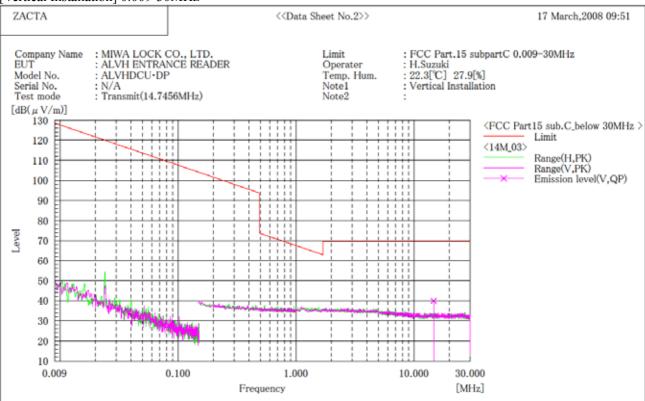




Final Result

| No. | Frequency | (P) | Reading | c. f | Result | Limit | Margin | Height | Angle |
|-----|-----------|-----|---------------|-----------|-----------------|-----------------|--------|--------|-------|
| | | | QP | | QP | | QP | | |
| | [MHz] | | $[dB(\mu V)]$ | [dB(1/m)] | $[dB(\mu V/m)]$ | $[dB(\mu V/m)]$ | [dB] | [cm] | [°] |
| 1 | 14.750 | V | 19.8 | 19.5 | 39. 3 | 69.5 | 30.2 | 100.0 | 242.0 |



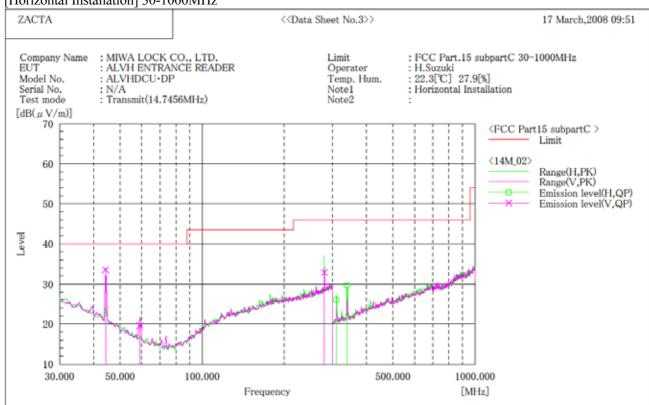


Final Result

| No. | Frequency | (P) | Reading | c. f | Result | Limit | Margin | Height | Angle |
|-----|-----------|-----|---------------|-----------|-----------------|-----------------|--------|--------|-------|
| | | | QP | | QP | | QP | | |
| | [MHz] | | $[dB(\mu V)]$ | [dB(1/m)] | $[dB(\mu V/m)]$ | $[dB(\mu V/m)]$ | [dB] | [cm] | [°] |
| 1 | 14.750 | V | 20.4 | 19. 5 | 39. 9 | 69. 5 | 29.6 | 100.0 | 148.0 |

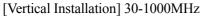
2) 30-1000MHz

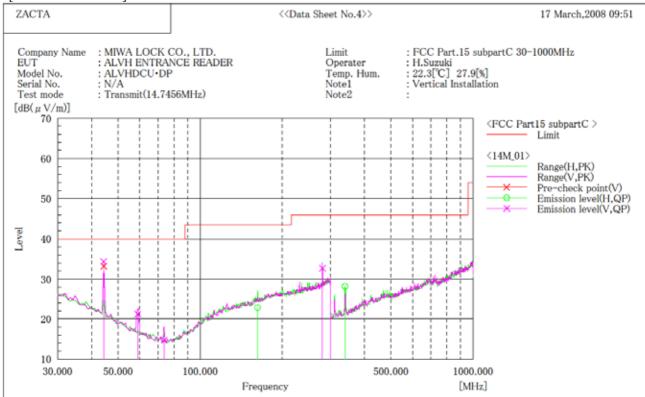
[Horizontal Installation] 30-1000MHz



Final Result

| No. | Frequency | (P) | Reading | c.f | Result | Limit | Margin | Height | Angle |
|-----|-----------|-----|----------------|-----------|------------------|------------|------------|---------------|-------|
| | [MHz] | | QP [dB(μV)] | [dB(1/m)] | QP [dB(μV/m)] | [dB(µV/m)] | QP [dB] | [am] | [°] |
| 1 | 44, 240 | V | 43. 3 | -9.8 | 33.5 | 40.0 | 6. 5 | [cm] 100.0 | 0,0 |
| 2 | 58.970 | V | 33. 9 | -14.3 | 19.6 | 40.0 | 20.4 | 100.0 | 2.0 |
| 3 | 280. 160 | V | 35. 4 | -2.5 | 32.9 | 46.0 | 13. 1 | 100.0 | 105.0 |
| 4 | 309. 650 | H | 36. 2 | -10. 2 | 26. 0 | 46.0 | 20.0 | 100.0 | 114.0 |
| 5 | 339, 130 | Н | 39. 2 | -9. 5 | 29. 7 | 46. 0 | 16. 3 | 100.0 | 122.0 |





Final Result

| No. | Frequency | (P) | Reading | c. f | Result | Limit | Margin | Height | Angle |
|-----|-----------|-----|----------|-----------|-----------------|-----------------|--------|--------|-------|
| | | | QP | | QP | | QP | | |
| | [MHz] | | [dB(μV)] | [dB(1/m)] | $[dB(\mu V/m)]$ | $[dB(\mu V/m)]$ | [dB] | [cm] | [°] |
| 1 | 44.240 | V | 44.2 | -9.8 | 34. 4 | 40.0 | 5.6 | 100.0 | 4.0 |
| 2 | 58.980 | V | 35. 5 | -14.3 | 21. 2 | 40.0 | 18.8 | 100.0 | 0.0 |
| 3 | 73. 730 | V | 31.0 | -16.3 | 14. 7 | 40.0 | 25. 3 | 100.0 | 135.0 |
| 4 | 162, 200 | Н | 29.4 | -6.6 | 22.8 | 43.5 | 20.7 | 108.0 | 88.0 |
| 5 | 280. 170 | V | 35. 2 | -2.5 | 32. 7 | 46.0 | 13.3 | 100.0 | 35.0 |
| 6 | 339, 150 | Н | 37. 7 | -9.5 | 28. 2 | 46.0 | 17.8 | 100.0 | 133.0 |

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5.2 AC Power Line Conducted Emissions

5.2.1 Test Procedure [FCC 15.207]

Conducted emission at AC mains port measurements are performed at open area test site according to ANSI C63.4 section 7.

EUT and support equipment are placed on wooden table of $2.3m(W) \times 1.0m(D) \times 0.8m(H)$ in size. EUT is connected to $50\Omega/50\mu H$ Line Impedance Stabilization Network (LISN) which is placed on reference ground plane, and was placed 80cm away from EUT. Excess of AC power cable is bundled in center. Vertical Metal Reference Plane 2.4m (W) \times 2.7m (H) in size is placed 0.4m away from EUT. LISN for peripheral is terminated in 50Ω .

EUT operating mode is selected to emit the maximum noise. Overall frequency range is investigated with spectrum analyzer using peak detector. Maximum emission configuration is determined by manipulating the EUT, support equipment, interconnecting cables. Then, emission measurements are performed with test receiver in above setting to each current-carrying conductor of the mains port. Sufficient time for EUT, support equipment and test equipment are provided in order for them to warm up to their normal operating condition. Frequency range:

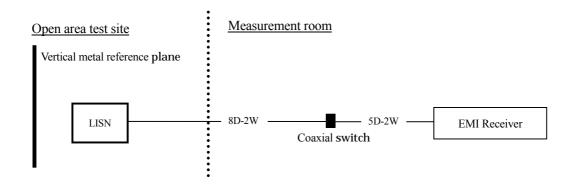
- 0.15MHz to 30MHz

The Test receiver is set to:

- Detector: Quasi-peak, Average Bandwidth: 9kHz

5.2.2 Test Instruments and Measurement Setup

Test configuration for AC power line Conducted Emissions



5.2.3 Test equipment for AC power line Conducted Emissions

| Equipment | Company | Model No. | Serial No. | Cal. due | Cal. Date |
|--|------------------------------------|----------------|------------------|-----------|---------------|
| EMI Receiver | ROHDE&SCHWARZ | ESCI | 100451 | May. 2008 | Mar. 10, 2007 |
| Line impedance stabilization network for EUT | Kyoritsu Electrical Works, Ltd. | KNW-407 | 8-693-20 | Mar. 2009 | Mar. 13, 2008 |
| Coaxial cable | FUJIKURA | 8D-2W/15m | YTCRFC#2C | Jun. 2008 | Jun. 23, 2007 |
| Coaxial cable | FUJIKURA | 5D-2W/1m | YTCRFC#2R,2C-001 | Jun. 2008 | Jun. 23, 2007 |
| Coaxial switch | ANRITSU | MP59B | 6200331882 | Jun. 2008 | Jun. 23, 2007 |
| PC | IBM | 6892-44J | 97-42089 | N/A | N/A |
| Software | ZACTA | EMI Data Sheet | Ver.2.81 | N/A | N/A |

5.2.4 Limit of AC power line Conducted Emission Measurement (Sample calculation)

| Fraguency | Limit | | Comple of field atwareth coloulation | | | |
|-------------------|-----------|-----------|---|--|--|--|
| Frequency | QP(dBµV) | AV(dBμV) | Sample of field strength calculation | | | |
| 0.15MHz to 0.5MHz | 66 to 56* | 56 to 46* | $\frac{dB\mu V = 20log_{10} (\mu V)}{Limit}$ 6.770MHz $0 : 60.0dB\mu V (Quasi-peak)$ $50.0dB\mu V (Average)$ | | | |
| 0.5MHz to 5MHz | 56 | 46 | (Quasi peak) Reading = $51.2 dB\mu V$ Cable loss + AMN factor = $0.3 dB$ Total = $51.2 + 0.3 = 51.5 dB\mu V$ Margin = $60.0 - 51.5 = 8.5 dB$ | | | |
| 5MHz to 30MHz | 60 | 50 | (Average) Reading = $45.0 dB\mu V$ Cable loss + AMN factor = $0.3 dB$ Total = $45.0 + 0.3 = 45.3 dB\mu V$ Margin = $50.0 - 45.3 = 4.7 dB$ | | | |

^{*:} The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

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5.2.5 Measurement Result

CONDUCTED EMISSION at MAINS PORT ****

Sheet number: 1

Standard : FCC Part 15 Subpart C Class : N/A Terminal : Mains Date of test : 2008/3/26

: 2 Test site Temperature []:16.5 Humidity [%] : 34.2 Operator : H.Suzuki

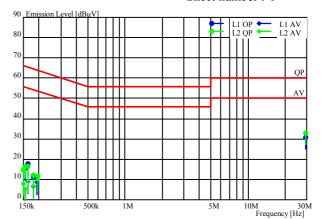
: MIWA LOCK CO., LTD. Company name EUT : ALVH ENTRANCE READER

Model number : ALVHDCU • DP

Serial number : N/A

Test mode : Transmit mode

Comment : 14M



| | Frequency | Rea | ding | Factor | Emissio | on level | Liı | nit | Ma | rgin | |
|-------|-----------|-------------|-------------|--------|---------|-------------|-------------|-------------|------|------|---------|
| Phase | | QP | AV | | QP | AV | QP | AV | QP | AV | Comment |
| | [MHz] | $[dB\mu V]$ | $[dB\mu V]$ | [dB] | [dBµV] | $[dB\mu V]$ | $[dB\mu V]$ | $[dB\mu V]$ | [dB] | [dB] | |
| L1 | 0.150 | 14.5 | 7.8 | 0.2 | 14.7 | 8.0 | 66.0 | 56.0 | 51.3 | 48.0 | |
| L1 | 0.155 | 15.3 | 5.0 | 0.2 | 15.5 | 5.2 | 65.7 | 55.7 | 50.2 | 50.5 | |
| L1 | 0.161 | 17.7 | 8.8 | 0.2 | 17.9 | 9.0 | 65.4 | 55.4 | 47.5 | 46.4 | |
| L1 | 0.180 | 11.1 | 6.3 | 0.2 | 11.3 | 6.5 | 64.5 | 54.5 | 53.2 | 48.0 | |
| L1 | 0.193 | 11.0 | 8.3 | 0.2 | 11.2 | 8.5 | 63.9 | 53.9 | 52.7 | 45.4 | |
| L1 | 29.490 | 28.8 | 29.0 | 1.9 | 30.7 | 30.9 | 60.0 | 50.0 | 29.3 | 19.1 | |
| L2 | 0.150 | 14.4 | 7.8 | 0.2 | 14.6 | 8.0 | 66.0 | 56.0 | 51.4 | 48.0 | |
| L2 | 0.155 | 16.4 | 5.1 | 0.2 | 16.6 | 5.3 | 65.7 | 55.7 | 49.1 | 50.4 | |
| L2 | 0.161 | 16.2 | 9.2 | 0.2 | 16.4 | 9.4 | 65.4 | 55.4 | 49.0 | 46.0 | |
| L2 | 0.180 | 11.9 | 6.6 | 0.2 | 12.1 | 6.8 | 64.5 | 54.5 | 52.4 | 47.7 | |
| L2 | 0.194 | 11.4 | 9.6 | 0.2 | 11.6 | 9.8 | 63.9 | 53.9 | 52.3 | 44.1 | |
| L2 | 29.491 | 30.9 | 31.0 | 1.9 | 32.8 | 32.9 | 60.0 | 50.0 | 27.2 | 17.1 | * |

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6. Uncertainty of measurement

Expanded uncertainties stated were calculated with a coverage Factor k=2.

Please note that these results are not taken into account when determining compliance or non-compliance with test result.

| Test item | Measurement uncertainty | | |
|---|-------------------------|--|--|
| Conducted emission at mains port (150kHz - 30MHz) | ±2.9dB | | |
| Radiated emission (9kHz - 30MHz) | ±4.4dB | | |
| Radiated emission (30MHz – 300MHz) | ±4.6dB | | |
| Radiated emission (300MHz – 1000MHz) | ±3.9dB | | |
| Radiated emission (1000MHz – 26GHz) | ±3.6dB | | |

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7. Laboratory description

7.1 Location: ZACTA Technology Corporation Yonezawa Testing Center

4149-7 Hachimanpara 5-chome Yonezawa-shi Yamagata 992-1128 Japan

Phone: +81-238-28-2880 Fax: +81-238-28-2888

7.2 Facility filing information:

1) NVLAP accreditation: NVLAP Lab. code: 200306-0

2) FCC filing: Pursuant to Section 2.948 of the FCC rules.

| Site name | Registration Number | Expiry Date |
|---|---------------------|-------------------|
| Site 1, Site 2, Site3 | 91065 | November 16, 2008 |
| 3m Semi-anechoic chamber 10m Semi-anechoic chamber | 540072 | March 12, 2010 |

3) Industry Canada Oats site filing: Pursuant to RSS 212, Issue 1(Provisional).

| Site name | Sites on file: Oats 3m/10m | Expiry Date | | |
|---------------------------|-------------------------------|------------------|--|--|
| Site 2 | 4224A-2 | January 24, 2010 | | |
| Site 3 | 4224A-3 | January 24, 2010 | | |
| 3m Semi-anechoic chamber | 4224A-4 | January 24, 2010 | | |
| 10m Semi-anechoic chamber | 4224A-5 | January 24, 2010 | | |

4) VCCI site filing: Pursuant to V-5/2006.04 VCCI regulations for registration of measurement facilities.

| Site name | Radiated emission registration No. | Conducted emission registration No. | Duration of registration |
|---------------------------|------------------------------------|-------------------------------------|---------------------------------|
| Site 1 | R-136 | C-132 | November 16, 2008 |
| Site 2 | R-137 | C-133 | November 16, 2008 |
| Site 3 | R-138 | C-134 | November 16, 2008 |
| 10m Semi-anechoic chamber | R-2480 | C-2722 | December 19, 2009 |
| 3m Semi-anechoic chamber | R-2481 | C-2723 | December 19, 2009 |
| Shielded room No.1 | - | C-2724 | December 19, 2009 |

5) ETL SEMKO authorization:

Authorized as an EMC test laboratory.

6) TUV Rheinland authorization:

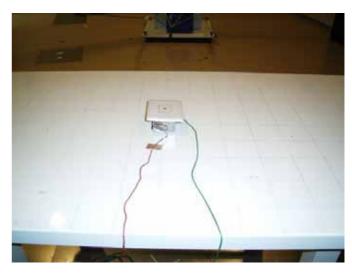
Authorized as an EMC test laboratory.

8. Test photographs

Transmitter Radiated Spurious Emissions

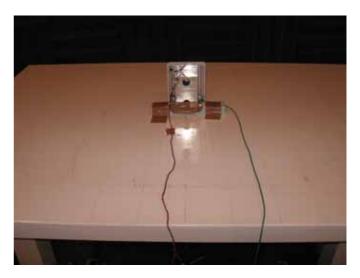
[Horizontal Installation]





[Vertical Installation]





AC Power Line Conducted Emissions



