

FCC Part 15 Subpart C

EMI Test Report

of

E.U.T.: Motorized Total GYM Exerciser

FCC ID: Q4CMTG12650-1

Trade Name: Fitness Quest, Motorized Total Gym

Model Number: 12650-1

Prepared for

Fitness Quest Inc

1400 Raff Road SW Canton, Ohio 44750-0001 U.S.A

TEL: 330 478 0755

FAX: 330 478 3862

Prepared by

Interocean EMC Technology Corp.

No.5-2, Lin 1, Tin-Fu Tsun, Lin-Kou Hsiang,

Taipei County, Taiwan, R.O.C.

TEL.: +886 2 2600 6861

FAX.: +886 2 2600 6859

NVLAP LAB. Code: 200458-0

Remark:

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2. The client shall not use it to claim product endorsement by NVLAP or and any U.S. government agencies.

Table of Contents

| | |
|--|-----------|
| 1 General Information | 4 |
| 1.1 Description of Equipment Under Test | 4 |
| 1.2 Tested Supporting System Detail | 5 |
| 1.3 Test Facility | 5 |
| 2 Provisions Applicable | 6 |
| 2.1 Definition | 6 |
| 3 Power Line Conducted Emission Measurement | 7 |
| 4 Radiated Emission Measurement | 8 |
| 4.1 Radiated Emission Measurement | 8 |
| 4.2 Instrument | 8 |
| 4.3 Block Diagram of Test Configuration | 8 |
| 4.4 Radiated Limit | 9 |
| 4.5 Measuring Instrument Setup | 9 |
| 4.6 Restricted Bands of Operation | 10 |
| 4.7 Configuration of Measurement | 10 |
| 4.8 Configuration of EUT | 11 |
| 4.9 Test Result | 11 |
| Appendix 1 – Duty factor Test Waveform | 14 |
| 5 Bandwidth of Emission Measurement | 16 |
| 5.1 Instrument | 16 |
| 5.2 Standard Applicable | 16 |
| 5.3 Plot Graphic of Bandwidth | 16 |
| 5.4 Test Result | 16 |
| Appendix 2 –Bandwidth of Emission Test Waveform | 17 |
| 6 Photographs of Measurement | 18 |
| 6.1 Radiated Emission Measurement | 18 |
| 7 Photographs of EUT | 19 |

Certification of Compliance

Applicant: Fitness Quest Inc
Manufacturer: Tung Keng Enterprise Co., Ltd.
EUT Description: Motorized Total GYM Exerciser
Trade Name: Fitness Quest, Motorized Total Gym
Model No.: 12650-1
FCC ID: Q4CMTG12650-1
Working Frequency: 433.762MHz
Tested Power Supply: 3.0 Vdc
Date of Final Test: 2003/7/18

Measurement Procedures and Standards Used:

- 47 CFR, Part 15, Subpart C
- ANSI C63.4: 1992

The device described above was tested by Interocean EMC Technology Corporation to determine the maximum emission levels emanated from the device and severity levels of the device endure and its performance criterion. The measurement results are contained in this test report and Interocean EMC Technology Corp assumes full responsibility for the accuracy and completeness of these measurements. This report shows the EUT is technically compliant with the Part 15 Subpart C and ANSI C63.4 official requirements. This report applies to the above sample only and shall not be reproduced in part without written approval of Interocean EMC Technology Corporation.

Report Issued: 2003/8/8

Test Engineer: Jeff Chuang Checked: Joseph Li
Jeff Chuang
2003/8/8
Joseph Lu

Approved: Tim Hong
Tim Hong
Aug. 12, 2003

1 General Information

1.1 Description of Equipment Under Test

Equipment Under Test : Motorized Total GYM Exerciser 12650-1

Model Number : 12650-1

Serial Number : N/A

Type of Sample Tested : Proto-type Pre-Production Mass Production

Applicant : **Fitness Quest Inc**
1400 Raff Road SW Canton, Ohio 44750-0001 U.S.A

Manufacturer : **Tung Keng Enterprise Co., Ltd.**
No. 1. Lane 160. Sec. 2, Tanfu Road, Tan Tzu Hsiang,
Taichung, Taiwan

Power Supply : 3.0 Vdc

Date of Receipt of Sample : Jul. 10, 2003

Date of Test : Jul. 10 ~ 18, 2003

Fundamental Frequency : 433.762 MHz

Description of E.U.T. : This is a remote controller for Motorized Total Gym Exerciser. The transmitter is installed on the Total Gym Exerciser Handle; it uses a RF signal of 433.762 MHz to control the Total Gym Exerciser up and down.

Note: The receiver portion of the EUT has been tested in Interocean EMC Technology Corp. The test result has been verified to comply with FCC Part 15, Subpart B, Class B – Computing Devices (FCC DoC). The engineering test report can be provided upon FCC request.

1.2 Tested Supporting System Detail

Nothing tested supporting system detail.

1.3 Test Facility

Site Description : OATS 1 OATS 2 OATS 3 OATS 4

Name of Firm : Intercean EMC Technology Corp.

Site 1, 2 Location : No.5-2, Lin 1, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei County, Taiwan, R.O.C.

Site 3, 4 Location : No. 12, Ruei-Shu Valley, Ruei-Ping Tsuen, Lin-Kou Shiang, Taipei County, Taiwan, R.O.C.

Site Filing :

- Federal Communication Commissions – USA
Registration No.: 96399 (Site 1& 2)
- Registration No.: 518958 (Site 3 & 4)
- Voluntary Control Council for Interference by Information Technology Equipment (VCCI) – Japan
Registration No. (Conducted Room): C-1094
- Registration No. (OATS 1): R-1040
- Registration No. (OATS 2): R-1041
- Industry Canada
Submission: 44631

Site Accreditation :

- Bureau of Standards and Metrology and Inspection (BSMI) – Taiwan, R.O.C.
Accreditation No.:
SL2-IN-E-0026 for CNS13438 / CISPR22
SL2-R1-E-0026 for CNS13439 / CISPR13
SL2-R2-E-0026 for CNS13439 / CISPR13
SL2-A1-E-0026 for CNS13783-1 / CISPR14
SL2-L1-E-0026 for CNS14115 / CISPR15
- National Voluntary Laboratory Accreditation Program (NVLAP) - USA
Lab Code: 200458-0
- Nemko AS
Authorization No.: ELA 181-a
Authorization No.: ELA 181-b

1.3.1 Test Methodology

Both conducted and Radiated Emission Measurement was performed according to the procedures in ANSI C63.4-1992 and Part 15 subpart C. Radiated Emission Measurement was performed at 3 meters distance from antenna to EUT.

1.3.2 Measurement Uncertainty

The uncertainty is calculated in accordance with NAMAS document NIS 81.

Conducted Uncertainty $U_c = \pm 2.96\text{dB}$.

Radiated Uncertainty $U_c = \pm 3.67\text{dB}$

2 Provisions Applicable

2.1 Definition

Unintentional radiator:

A device that intentionally generates and radio frequency energy for use within the device, or that sends radio frequency signals by conduction to associated equipment via connecting wiring, but which is not intended to emit RF energy by radiation or induction.

Class A Digital Device:

A digital device which is marketed for use in commercial or business environment; exclusive of a device which is market for use by the general public, or which is intended to be used in the home.

Class B Digital Device:

A digital device which is marketed for use in a residential environment notwithstanding use in a commercial, business or industrial environment. Example of such devices that are marketed for the general public.

Note : A manufacturer may also qualify a device intended to be marketed in a commercial, business, or industrial environment as a Class B digital device, and in fact is encouraged to do so, provided the device complies with the technical specifications for a Class B Digital Device. In the event that a particular type of device has been found to repeatedly cause harmful interference to radio communications, the Commission may classify such a digital device as a Class B Digital Device, Regardless of its intended use.

Intentional radiator:

A device that intentionally generates and emits radio frequency energy by radiation or induction.

3 Power Line Conducted Emission Measurement

The EUT is powered by battery only.

4 Radiated Emission Measurement

4.1 Radiated Emission Measurement

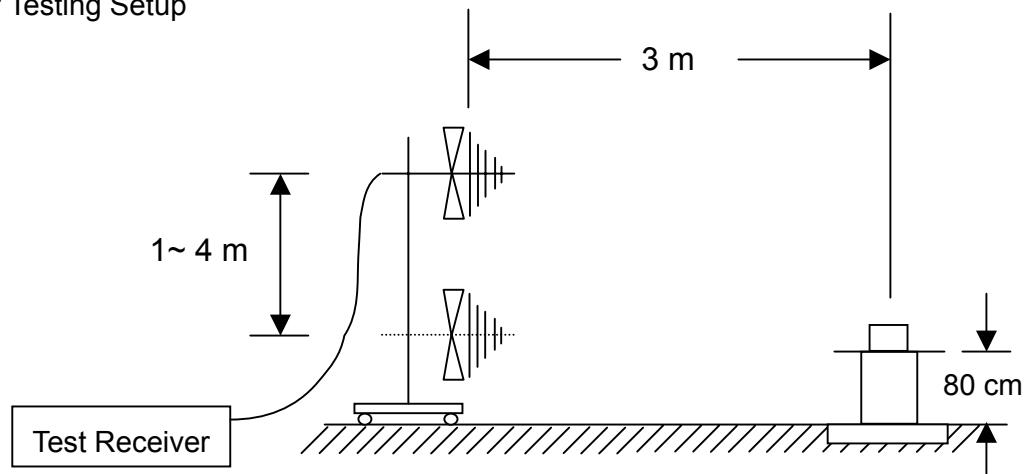
4.2 Instrument

| Instrument | Manufacturer | Model | Serial No. | Last Calibration |
|-------------------|-----------------|------------|------------|------------------|
| EMI Test Receiver | Rohde & Schwarz | ESVS 10 | 826148/011 | 2003/07/29 |
| Antenna | Schaffner | CBL6112B | 2610 | 2003/02/25 |
| Horn Antenna | Com-power | AH-118 | 10081 | 2003/04/28 |
| Spectrum Analyzer | Rohde & Schwarz | FSP 30 | 100002 | 2003/03/10 |
| Pre-Amplifier | Schaffner | CPA9231A/4 | 3350 | 2003/09/30 |
| Pre-Amplifier | Agilent | 8449B | 3008A01434 | 2003/04/24 |
| RF Cable | IETC | CBL02 | N/A | 2003/04/15 |
| RF Cable | IETC | CBL09 | N/A | 2003/04/15 |

Note: All instrument upon which need to be calibrated are within calibration period of 1 year.

4.3 Block Diagram of Test Configuration

Configuration of Testing Setup



4.4 Radiated Limit

Section 15.209 (FCC Part 15) (30 ~ 1000 MHz)

| Frequency (MHz) | <input type="checkbox"/> Class A (10m) | | <input checked="" type="checkbox"/> Class B (3m) | |
|--------------------|--|----------------------|--|----------------------|
| | Field Strength (uV) | Quasi-Peak (dBuV) | Field Strength (uV) | Quasi-Peak (dBuV) |
| 30 ~ 88 | 90 | 39.08 | 100 | 40.00 |
| 88 ~ 216 | 150 | 43.52 | 150 | 43.52 |
| 216 ~ 960 | 210 | 46.44 | 200 | 46.02 |
| 960 above | 300 | 49.54 | 500 | 53.98 |

According to 15.231, Periodic operation in the band 40.66-40.70 MHz and above 70 MHz ,the field strength of emission from intentional radiators operated under this section shall not exceed the following:

| Frequency MHz | Distance Meters | Field strength of Fundamental (μ V/m) | Field strength of Spurious (μ V/m) |
|------------------|--------------------|--|---|
| 40.66 ~ 40.70 | 3 | 2250 | 225 |
| 70 ~ 130 | 3 | 1250 | 125 |
| 130 ~ 174 | 3 | *1,250 to 3,750 | *125 to 375 |
| 174 ~ 260 | 3 | 3750 | 375 |
| 260 ~ 470 | 3 | *3,750 to 12,500 | *375 to 1,250 |
| Above 470 | 3 | 12,500 | 1,250 |

*Linear interpolations

Limit of transmission time

- 1.) A manually operated Transmitter of Remote Control shall employ a switch that will automatically deactivate the Transmitter of Remote Control within not more than 5 seconds of being released.
- 2.) A Transmitter of Remote Control activated automatically shall cease transmission within 5 Seconds after activation.

4.5 Measuring Instrument Setup

Explanation of measuring instrument setup in frequency band measured is as following:

| Frequency Band (MHz) | Instrument | Function | Resolution bandwidth | Video Bandwidth |
|-------------------------|-------------------|------------|-------------------------|--------------------|
| 30 to 1000 | RF Test Receiver | Quasi-Peak | 120 kHz | N/A |
| | Spectrum Analyzer | Peak | 100 kHz | 100 kHz |
| Above 1000 | Spectrum Analyzer | Peak | 1 MHz | 1 MHz |

4.6 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below :

| MHz | MHz | MHz | GHz |
|---------------------|-----------------------|-----------------|---------------|
| 0.090 ~ 0.110 | 16.42 ~ 16.423 | 399.9 ~ 410 | 4.5 ~ 5.25 |
| 0.495 ~ 0.505 ** | 16.69475 ~ 16.69525 | 608 ~ 614 | 5.35 ~ 5.46 |
| 2.1735 ~ 2.1905 | 16.80425 ~ 16.80475 | 960 ~ 1240 | 7.25 ~ 7.75 |
| 4.125 ~ 4.128 | 25.5 ~ 25.67 | 1300 ~ 1427 | 8.025 ~ 8.5 |
| 4.17725 ~ 4.17775 | 37.5 ~ 38.25 | 1435 ~ 1626.5 | 9.0 ~ 9.2 |
| 4.20725 ~ 4.20775 | 73 ~ 74.6 | 1645.5 ~ 1646.5 | 9.3 ~ 9.5 |
| 6.215 ~ 6.218 | 74.8 ~ 75.2 | 1660 ~ 1710 | 10.6 ~ 12.7 |
| 6.26775 ~ 6.26825 | 108 ~ 121.94 | 1718.8 ~ 1722.2 | 13.25 ~ 13.4 |
| 6.31175 ~ 6.31225 | 123 ~ 138 | 2200 ~ 2300 | 14.47 ~ 14.5 |
| 8.291 ~ 8.294 | 149.9 ~ 150.05 | 2310 ~ 2390 | 15.35 ~ 16.2 |
| 8.362 ~ 8.366 | 156.52475 ~ 156.52525 | 2483.5 ~ 2500 | 17.7 ~ 21.4 |
| 8.37625 ~ 8.38675 | 156.7 ~ 156.9 | 2655 ~ 2900 | 22.01 ~ 23.12 |
| 8.41425 ~ 8.41475 | 162.0125 ~ 167.17 | 3260 ~ 3267 | 23.6 ~ 24.0 |
| 12.29 ~ 12.293 | 167.72 ~ 173.2 | 3332 ~ 3339 | 31.2 ~ 31.8 |
| 12.51975 ~ 12.52025 | 240 ~ 285 | 3345.8 ~ 3358 | 36.43 ~ 36.5 |
| 12.57675 ~ 12.57725 | 322 ~ 335.4 | 3360 ~ 4400 | Above 38.6 |
| 13.36 ~ 13.41 | | | |

**: Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

4.7 Configuration of Measurement

- 4.7.1 The EUT was place on a non-conductive table whose total height equaled 80cm. The turntable can rotate 360 degree to determine the position of the maximum emission level.
- 4.7.2 The EUT was set 3 meters away from the receiving antenna that was mounted on a non-conductive mast. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level.
- 4.7.3 The initial testing identified the frequency that has the highest disturbance relative to the limit while operating the EUT in typical modes of operation and cable positions in a test setup representative of typical system configuration.
- 4.7.4 The identification of the frequency of highest emission with respect to the limit was found by investigating emissions at a number of significant frequencies. The probable frequency of maximum emission had been found and that the associated cable and EUT configuration and mode of operation had been identified.

4.8 Configuration of EUT

- 4.8.1 Setup the EUT and simulators as shown section 4.3
- 4.8.2 Turn on the power and make sure that it is in normal function.
- 4.8.3 Contrast to the maximum position to get the worst-case reading.
- 4.8.4 Measured the horizontal polarization and record the value.
- 4.8.5 Changed into vertical polarization and record the value.

4.9 Test Result

PASS.

The final tests data are shown on following page.

Radiated Emission Measurement Data

| | | | | | |
|--------------------------|---|------------|--------------|---|------------|
| Date of Tested | : | 2003/07/18 | Polarization | : | Horizontal |
| Temperature | : | 25°C | Humidity | : | 50% |
| Fundamental Frequency | : | 433.762MHz | Distance | : | 3m |
| Tested Mode | : | TX | | | |

Remark:

1. Result = Reading + C. factor.
Ave. = Peak Value + D factor.
2. Factor C means “**Corrected**”, and that includes antenna factor, cable loss, amplifier gain (if any).
3. Factor D means “**Duty**”, the total period of pulse train is **48 ms**, and the total duty is **16.6ms**, and the duty factor is calculated with following formula:

$$20 \log \frac{\text{TotalDuty}}{\text{PeriodofPulseTrain}} = 20 \log \frac{4.9ms + 3.3ms + (21 * 0.4ms)}{48ms} = -9.2(\text{dB})$$

4. Detail please see following to appendix 2.

Radiated Emission Measurement Data

| | | | | | |
|--------------------------|---|-------------|--------------|---|----------|
| Date of Tested | : | 2003/07/18 | Polarization | : | Vertical |
| Temperature | : | 28°C | Humidity | : | 50% |
| Fundamental Frequency | : | 433.762 MHz | Distance | : | 3m |
| Tested Mode | : | TX | | | |

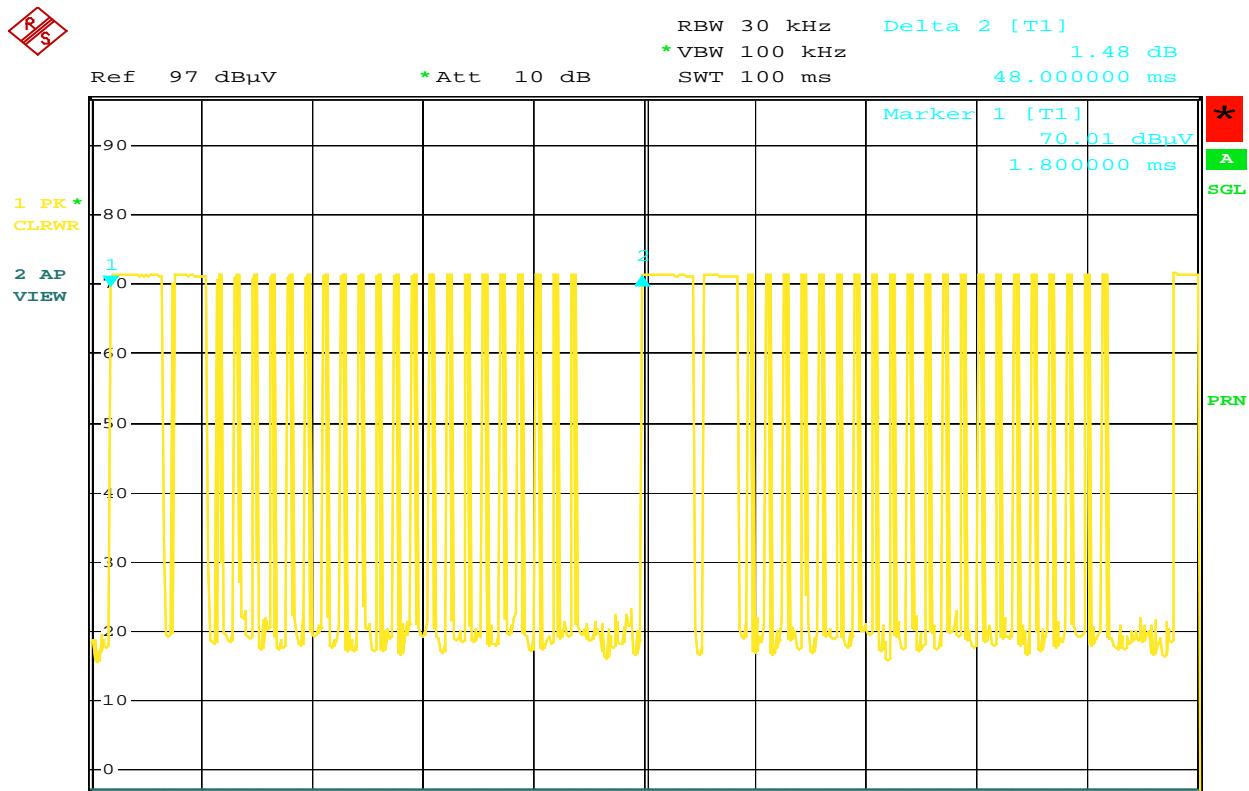
Remark:

1. Result = Reading + C. factor.
Ave. = Peak Value + D factor.
2. Factor C means “**Corrected**”, and that includes antenna factor, cable loss, amplifier gain (if any).
3. Factor D means “**Duty**”, the total period of pulse train is **48 ms**, and the total duty is **16.6ms**, and the duty factor is calculated with following formula:

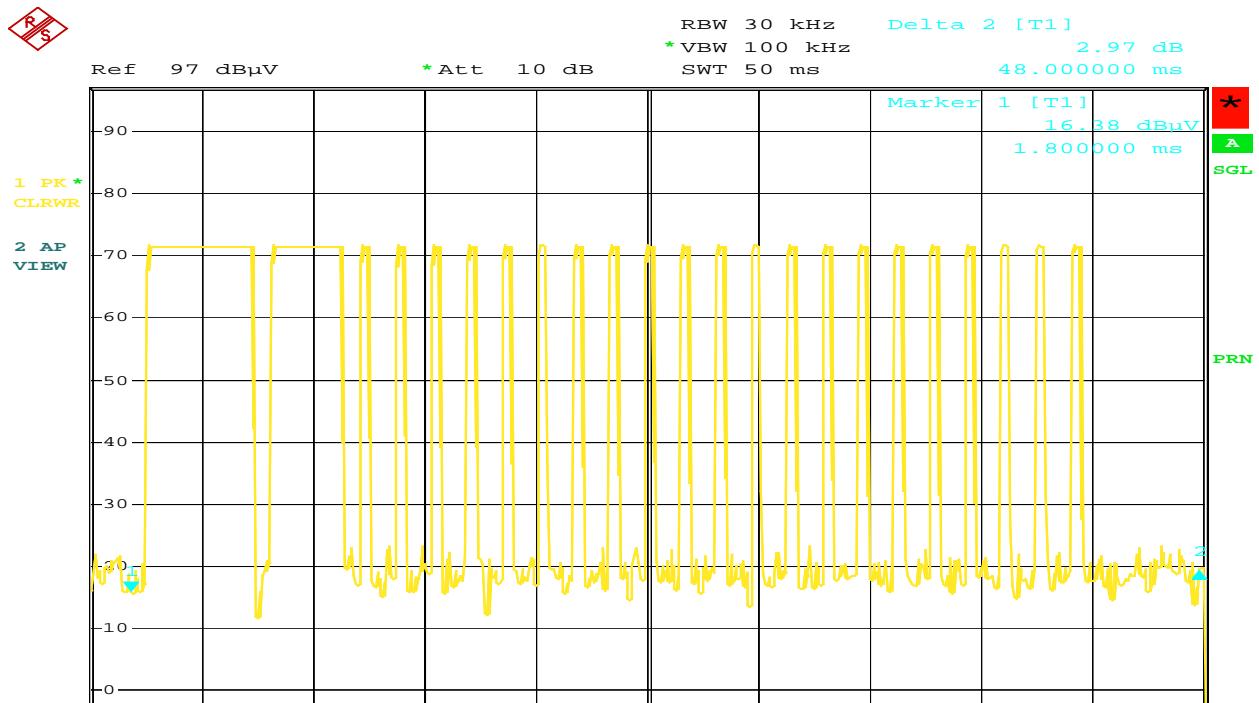
$$20 \log \frac{\text{TotalDuty}}{\text{PeriodofPulseTrain}} = 20 \log \frac{4.9ms + 3.3ms + (21 * 0.4ms)}{48ms} = -9.2(\text{dB})$$

4. Detail please see following to appendix 1.

Appendix 1 – Duty factor Test Waveform

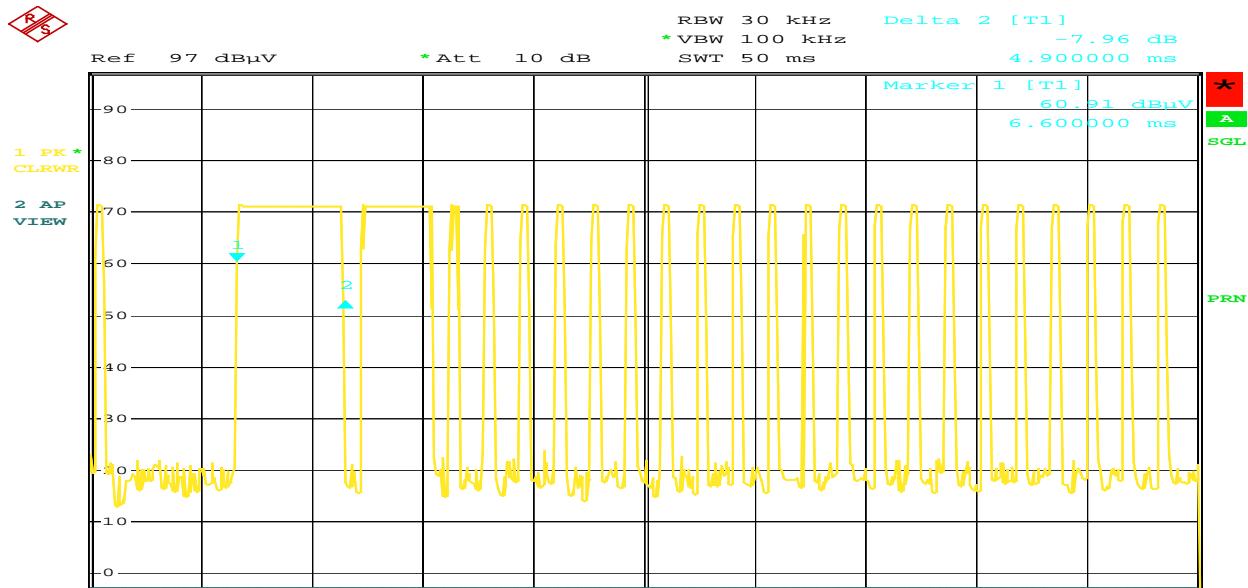


Date: 18.JUL.2003 10:51:05

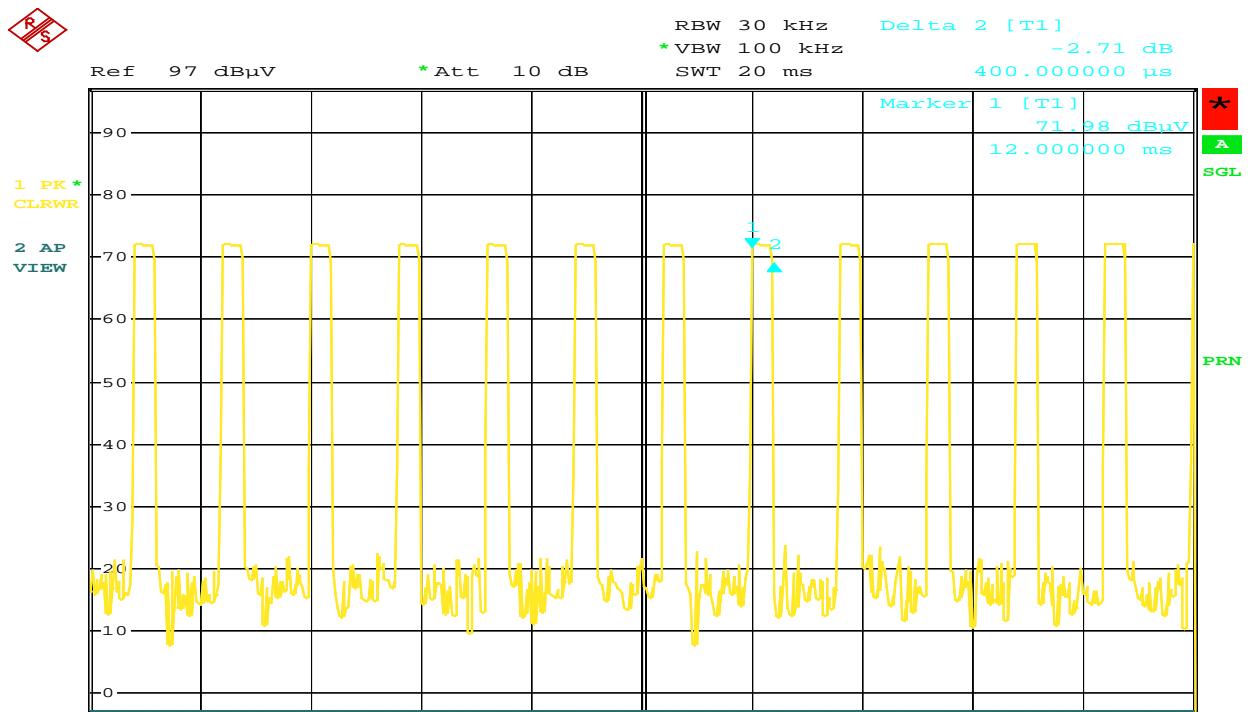


Date: 18.JUL.2003 10:51:44

Full Cycle of The Pulse Train



Date: 18.JUL.2003 10:53:11



Date: 18.JUL.2003 10:54:25

Detail of The Pulse Train

5 Bandwidth of Emission Measurement

5.1 Instrument

| Instrument | Manufacturer | Model | Serial No. | Last Calibration |
|-------------------|-----------------|----------|------------|------------------|
| Spectrum Analyzer | Rohde & Schwarz | FSP 30 | 100002 | 2003/03/10 |
| Antenna | Schaffner | CBL6112B | 2610 | 2003/02/25 |

Note: All instrument upon which need to be calibrated are within calibration period of 1 year.

5.2 Standard Applicable

Per FCC rule §15.231(c), the permitted emission bandwidth is no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz.

5.3 Plot Graphic of Bandwidth

The emission bandwidth for this transmitter is

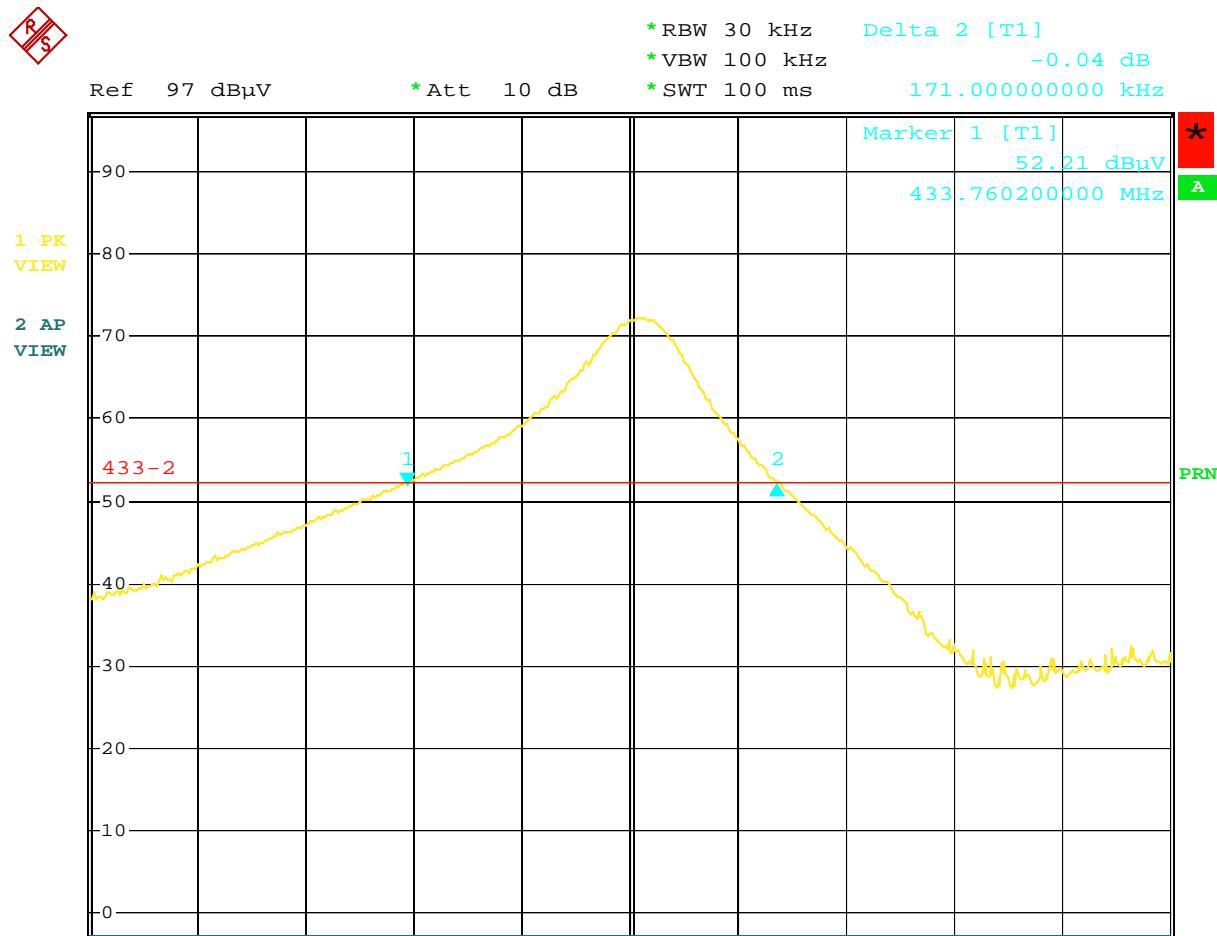
$$433.762 \times 0.25\% = 1.084 \text{ MHz}$$

5.4 Test Result

PASS.

Plotted graphics please see following to appendix 2.

Appendix 2 –Bandwidth of Emission Test Waveform



Date: 18.JUL.2003 10:49:40

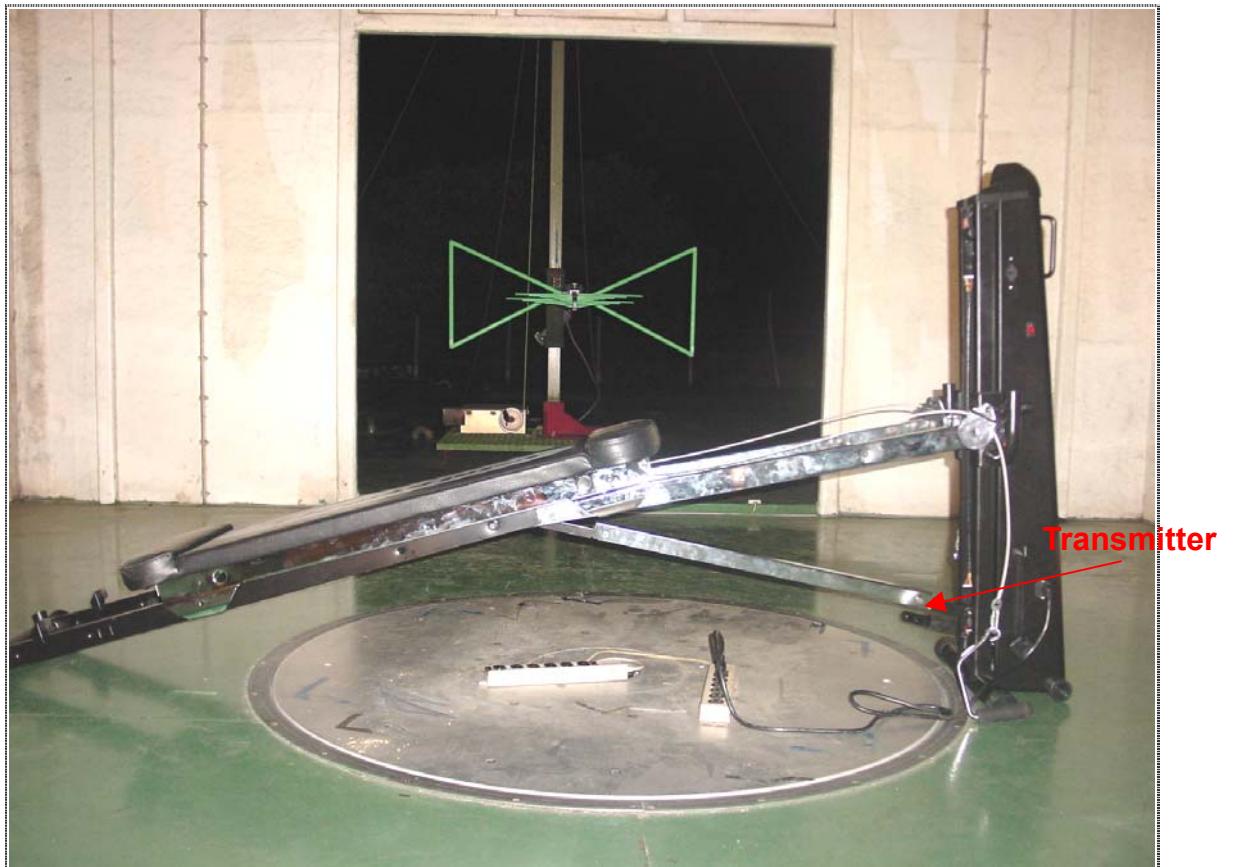
Emission Bandwidth

6 Photographs of Measurement

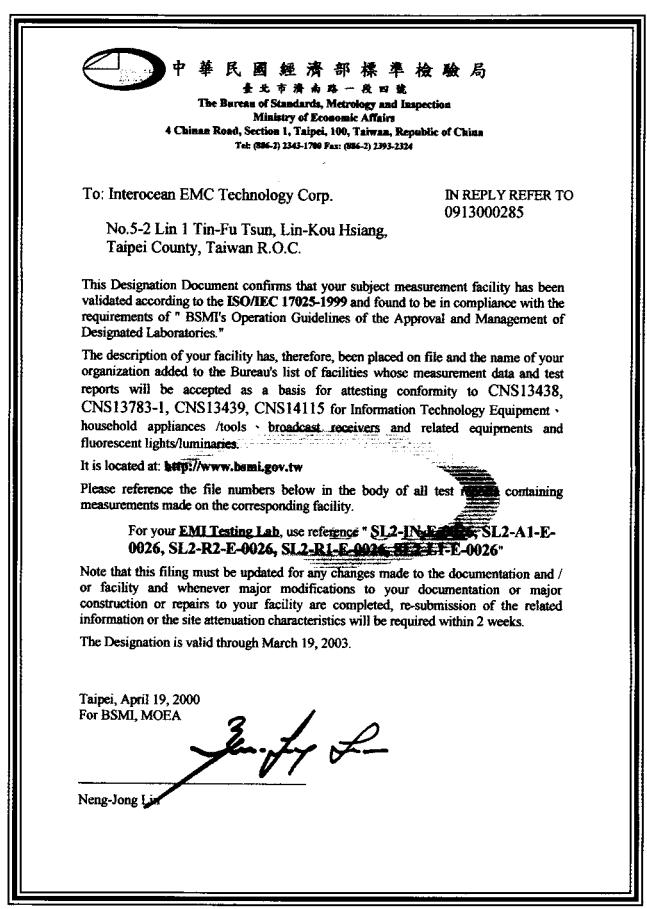
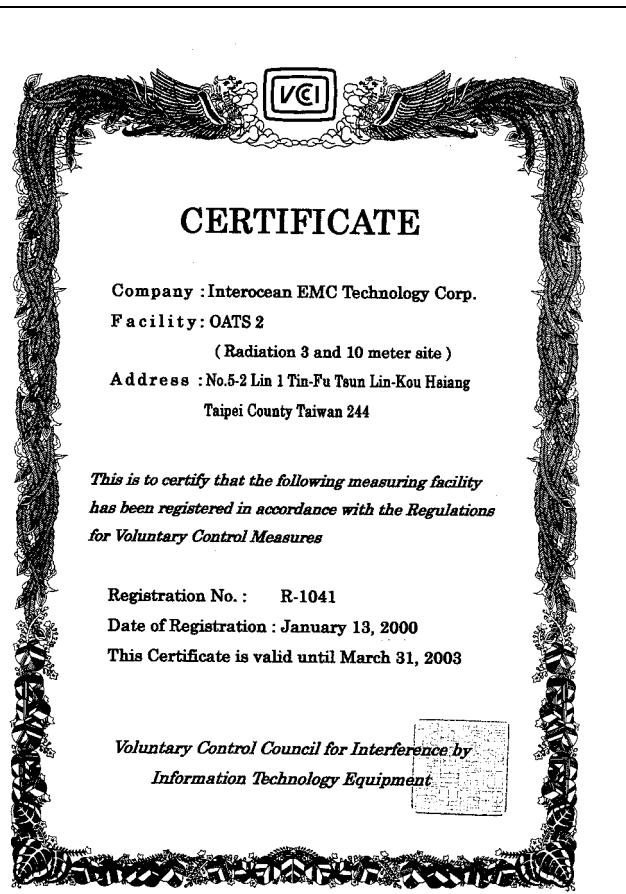
6.1 Radiated Emission Measurement



Front View



Rear View



| | |
|---|---|
| <p>NVLAP National Institute of Standards and Technology</p> <p>ISO/IEC GUIDE 25:1990 ISO 9002:1987</p> <p>INTEROCEAN EMC TECHNOLOGY CORP. TAIPEI COUNTY 24443 TAIWAN</p> <p>Certificate of Accreditation</p> <p>is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987). Accreditation is awarded for specific services, listed on the Scope of Accreditation for:</p> <p>ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS</p> <p>March 31, 2003 Effective through NVLAP-Q-01C-11(95)</p> | <p>NVLAP National Institute of Standards and Technology</p> <p>ISO/IEC 17025:1999 ISO 9002:1994</p> <p>Scope of Accreditation</p> <p>Revised Scope 07/30/2002 ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS</p> <p>INTEROCEAN EMC TECHNOLOGY CORP. No. 5-2, Lin 1, Tin-Fu Tsun, Lin-Kou Hsiang Taipei County 24443 TAIWAN Mr. Mike Haung Phone: 886-2-26006861 Fax: 886-2-946775361 E-Mail: Mike_h@ietc.com.tw URL: http://www.ietc.com.tw</p> <p>NVLAP Code Designation / Description</p> <p>Emissions Test Methods:</p> <p>12/CIS14 CISPR 14-1 (March 30, 2000): Limits and methods of measurement of radio interference characteristics of household electrical appliances, portable tools and similar electrical apparatus - Part 1: Emissions</p> <p>12/CIS14a EN 55014-1 (1993) with Amendments A1 (1997) & A2 (1999)</p> <p>12/CIS14b AS/NZS 1044 (1995)</p> <p>12/CIS14c CNS 13783-1</p> <p>12/CIS22 IEC/CISPR 22 (1997) and EN 55022 (1998): Limits and methods of measurement of radio disturbance characteristics of information technology equipment</p> <p>12/CIS22a IEC/CISPR 22 (1993): Limits and methods of measurement of radio disturbance characteristics of information technology equipment, Amendment 1:1995, and Amendment 2:1996.</p> <p>March 31, 2003 Effective through NVLAP-Q-01S (06-01)</p> <p><i>David F. Alderman</i> For the National Institute of Standards and Technology</p> |
| <p>NVLAP National Institute of Standards and Technology</p> <p>ISO/IEC 17025:1999 ISO 9002:1994</p> <p>Scope of Accreditation</p> <p>Revised Scope 07/30/2002 ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS</p> <p>INTEROCEAN EMC TECHNOLOGY CORP.</p> <p>NVLAP Code Designation / Description</p> <p>12/CIS22b CNS 13438 (1997): Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment</p> <p>12/F01 ANSI C63.4 (2000) - cited in FCC Method - 47 CFR Part 15 - Digital Devices</p> <p>12/F01a Conducted Emissions, Power Lines, 150 kHz to 30 MHz</p> <p>12/F01b Radiated Emissions</p> <p>12/T51 AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment</p> <p>Immunity Test Methods:</p> <p>12/I01 IEC 61000-4-2 (1995) and Amendment 1 (1998): Electrostatic Discharge Immunity Test</p> <p>12/I02 IEC 61000-4-3 (1995) and Amendment 1 (1998): Radiated, Radio-Frequency Electromagnetic Field Immunity Test</p> <p>12/I03 IEC 61000-4-4 (1995): Electrical Fast Transient/Burst Immunity Test</p> <p>12/I04 IEC 61000-4-5 (1995): Surge Immunity Test</p> <p>12/I05 IEC 61000-4-6 (1996): Immunity to Conducted Disturbances, Induced Radio-Frequency Fields</p> <p>March 31, 2003 Effective through NVLAP-Q-01S (06-01)</p> <p><i>David F. Alderman</i> For the National Institute of Standards and Technology</p> | <p>NVLAP National Institute of Standards and Technology</p> <p>ISO/IEC 17025:1999 ISO 9002:1994</p> <p>Scope of Accreditation</p> <p>Revised Scope 07/30/2002 ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS</p> <p>INTEROCEAN EMC TECHNOLOGY CORP.</p> <p>NVLAP Code Designation / Description</p> <p>12/I06 IEC 61000-4-8 (1993): Power Frequency Magnetic Field Immunity Test</p> <p>12/I07 IEC 61000-4-11 (1994): Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests</p> <p>March 31, 2003 Effective through NVLAP-Q-01S (06-01)</p> <p><i>David F. Alderman</i> For the National Institute of Standards and Technology</p> |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|---|--|---|---|--|-----------------------------|--|--|---|--|--|--------------------------------|---|---|-------------------------------|-----------------|-------------------------|--|--|---|---|---|---|---|---|--|
| <p>EMC Laboratory Authorisation Aut. No.: ELA 181</p> <p>EMC Laboratory: Interocean EMC Technology Corp. No. 5-2, Lin 1, Tim-Fu Tsun, Lin-Kou Hsiang, Taipei County TAIWAN R.O.C.</p> <p>Scope of Authorization: All CENELEC standards [ENs] for EMC that are listed on the accompanying page, and, all of the corresponding CISPR, IEC, and ISO EMC standards that are listed on the accompanying page.</p> <p>Nemko has assessed the testing facilities, qualifications and testing practices and the relevant part of the organization. The above-mentioned EMC Laboratory has been validated against EN 45001 and ISO 17025 and found to be compliant. The laboratory also fulfills the conditions described in Nemko Document ELA-INFO-10. During Nemko's visit it was found that the EMC Laboratory is capable of performing tests within the Scope of Authorisation given on the accompanying page(s).</p> <p>Accordingly, Nemko will accept test reports from the laboratory as a basis for attesting conformity to these EMC Standards under either the European Union EMC Directive (89/336/EEC) or, when applicable, the national standards of countries Nemko has been authorised to attest conformity with.</p> <p>In order to maintain the Authorisation, the information given in the pertinent ELA-INFO-10 must be carefully followed. Nemko is to be promptly notified about any changes in the situation at the EMC Laboratory, which may affect the basis for this Authorisation. The Authorisation may be withdrawn at any time if the conditions are no longer considered to be fulfilled.</p> <p>The Authorisation is valid through 31 December 2004.</p> <p>Oslo, 30 May 2002 For Nemko AS: <i>Kjell Bergh</i> Kjell Bergh, Nemko Group EMC Co-ordinator</p> <p>ELA 4-EMC ED1-2002 Nemko AS Gaukstadollen 30 P.O.Box 73 Bindern N-0314 Oslo Norway T +47 22 96 03 30 F +47 22 96 05 50 Enterprise number NO974404532</p> | <p>EMC Laboratory Authorisation Aut. No.: ELA 181</p> <p>SCOPE OF AUTHORIZATION</p> <p>GENERIC & PRODUCT-FAMILY STANDARDS</p> <table border="1"><tr><td>EN 50081-1:1992 EN 61000-6-3:2001 IEC 61000-6-3:1996 (mod)</td><td>EN 50082-1:1992 + 1997 EN 50082-1:1997</td><td>EN 61000-6-2:1999 IEC 61000-6-2:1999 EN 61000-6-2:2001 IEC 61000-6-2:1999 (mod)</td></tr><tr><td>EN 5008-2:1993 EN 61000-6-4:2001 IEC 61000-6-4:1997 (mod)</td><td>EN 61000-6-1:2001 IEC 61000-6-1:1997 (mod)</td><td></td></tr><tr><td>EN 55011:1998 + CISPR 11:97</td><td>EN 55013:90 + A12:94 + A13:96 CISPR 13:75 + A1:83</td><td>EN 55014-1:1993 + A1:97 CISPR 14:1993 + A1:96</td></tr><tr><td>EN 55014-2:1997 CISPR 14-2:1997 EN 55104:1995</td><td>EN 55015:1993, CISPR 15:1992 EN 55015:1998 + A1:97 CISPR 15:96 + A1:97</td><td>EN 55022:1994 + A1:95 + A2:97 CISPR 22:1993 + A1:95 + A2:96 EN 55022:1998, CISPR 22:1997</td></tr><tr><td>EN 55024:1998 CISPR 24:1997</td><td>EN 61000-3-2:1995 + A1:1996 + A2:1998 + A14:2000 IEC 61000-3-2:1995 + A1:1997 + A2:1998 EN 61000-3-2:2000 IEC 61000-3-2:2000 (mod) + A1:2001</td><td>EN 61000-3-3:1995 + A1:2001 IEC 61000-3-3:1994 + A1:2001</td></tr><tr><td>EN 61547:1995, IEC 61547:1995</td><td>EN 50091-2:1995</td><td>EN 50130-4:1995 + A1:98</td></tr></table> <p>BASIC STANDARDS</p> <table border="1"><tr><td>EN 61000-4-2:1995 + A1:98 IEC 61000-4-2:1995 + A1:98 EN 60801-1:1993 IEC 801.2:1991 IEC 801.2:1984</td><td>EN 61000-4-3:1995 + A1:98 IEC 61000-4-3:1995 + A1:98 HD 481.3, IEC 801.3:1984 ENV 50140:1993 + ENV 50204:1995</td><td>EN 61000-4-4:1995 IEC 61000-4-4:1995 IEC 801.4:1990</td></tr><tr><td>EN 61000-4-5:1995 IEC 61000-4-5:1995 ENV 50142:1994</td><td>EN 61000-4-6:1996 IEC 61000-4-6:1996 ENV 50141:1993</td><td>EN 61000-4-8:1993 IEC 61000-4-8:1993</td></tr><tr><td>EN 61000-4-11:1994 IEC 61000-4-11:1994</td><td>EN 61000-4-12:1995 IEC 61000-4-12:1995</td><td></td></tr></table> <p>Oslo, 30 May 2002 Kjell Bergh, Nemko Group EMC Co-ordinator</p> <p style="text-align: center;">(2)</p> <p>Nemko AS Gaukstadollen 30 P.O.Box 73 Bindern N-0314 Oslo Norway T +47 22 96 03 30 F +47 22 96 05 50 Enterprise number NO974404532</p> | EN 50081-1:1992 EN 61000-6-3:2001 IEC 61000-6-3:1996 (mod) | EN 50082-1:1992 + 1997 EN 50082-1:1997 | EN 61000-6-2:1999 IEC 61000-6-2:1999 EN 61000-6-2:2001 IEC 61000-6-2:1999 (mod) | EN 5008-2:1993 EN 61000-6-4:2001 IEC 61000-6-4:1997 (mod) | EN 61000-6-1:2001 IEC 61000-6-1:1997 (mod) | | EN 55011:1998 + CISPR 11:97 | EN 55013:90 + A12:94 + A13:96 CISPR 13:75 + A1:83 | EN 55014-1:1993 + A1:97 CISPR 14:1993 + A1:96 | EN 55014-2:1997 CISPR 14-2:1997 EN 55104:1995 | EN 55015:1993, CISPR 15:1992 EN 55015:1998 + A1:97 CISPR 15:96 + A1:97 | EN 55022:1994 + A1:95 + A2:97 CISPR 22:1993 + A1:95 + A2:96 EN 55022:1998, CISPR 22:1997 | EN 55024:1998 CISPR 24:1997 | EN 61000-3-2:1995 + A1:1996 + A2:1998 + A14:2000 IEC 61000-3-2:1995 + A1:1997 + A2:1998 EN 61000-3-2:2000 IEC 61000-3-2:2000 (mod) + A1:2001 | EN 61000-3-3:1995 + A1:2001 IEC 61000-3-3:1994 + A1:2001 | EN 61547:1995, IEC 61547:1995 | EN 50091-2:1995 | EN 50130-4:1995 + A1:98 | EN 61000-4-2:1995 + A1:98 IEC 61000-4-2:1995 + A1:98 EN 60801-1:1993 IEC 801.2:1991 IEC 801.2:1984 | EN 61000-4-3:1995 + A1:98 IEC 61000-4-3:1995 + A1:98 HD 481.3, IEC 801.3:1984 ENV 50140:1993 + ENV 50204:1995 | EN 61000-4-4:1995 IEC 61000-4-4:1995 IEC 801.4:1990 | EN 61000-4-5:1995 IEC 61000-4-5:1995 ENV 50142:1994 | EN 61000-4-6:1996 IEC 61000-4-6:1996 ENV 50141:1993 | EN 61000-4-8:1993 IEC 61000-4-8:1993 | EN 61000-4-11:1994 IEC 61000-4-11:1994 | EN 61000-4-12:1995 IEC 61000-4-12:1995 | |
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| EN 61000-4-11:1994 IEC 61000-4-11:1994 | EN 61000-4-12:1995 IEC 61000-4-12:1995 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>FEDERAL COMMUNICATIONS COMMISSION Laboratory Division 7435 Oakland Mills Road Columbia, MD. 21046</p> <p>December 29, 1999</p> <p>Registration Number: 96399</p> <p>Intercean EMC Technology Corp. No. 5-2, Lin 1, Tim-Fu Tsun Lin-Kou Hsiang, Taipei County 244 Taiwan, R.O.C. Attention: Kent Hsu</p> <p>Re: Measurement facility located at Lin-Kou, OATS 1 & 2 3 & 10 meter sites Date of Listing: December 29, 1999</p> <p>Gentlemen:</p> <p>Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that this filing must be updated for any changes made to the facility, and at least every three years from the date of listing the data on file must be certified as current.</p> <p>If requested, the above mentioned facility has been added to our list of those who perform these measurement services for the public on a fee basis. An up-to-date list of such public test facilities is available on the Internet on the FCC Website at WWW.FCC.GOV, E-Filing, OET Equipment Authorization Electronic Filing.</p> <p>Sincerely, <i>Thomas W Phillips</i> Thomas W Phillips Electronics Engineer</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |