

Test Report

| Report No | H0825-3 |
|--|---|
| Client | InterSense, Inc |
| Address | 36 Crosby Drive Bedford, MA 01730 |
| Phone | 781-541-7616 |
| Items tested FCC ID IC ID FRN | IS900 RS422 16 Channel Receiver TK5-IS9RX16 6414A-IS9RX16 0013917356 |
| Equipment Code Emission Designator | DTS 2M70G1D |
| FCC/IC Rule Parts | 47 CFR 15.247, RSS 210 issue 7 and RSS GEN issue 2 |
| Test Dates | July 19 th , 26 th , 27 th , 29 th , and August 2 nd and 30th 2007 |
| Results | As detailed within this report |
| Prepared by | David Harris – Test Engineer |
| Authorized by | Michael Buchholz – EMC Manager |
| Issue Date | 8/31/07 |
| Conditions of Issue | This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 31 of this report. |

Curtis-Straus LLC is accredited to ISO/IEC 17025 by A2LA for the specific scope of accreditation under Certificate Number 1627-01. This report may contain data which is not covered by the A2LA accreditation. See our scope of accreditation at the end of this test report. Any opinions or interpretations expressed in this report are outside the scope of our A2LA accreditation as A2LA only accredits testing.

Testing Cert. No. 1627-01



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| | |

Form Final Report REV 7-20-07 (DW)

Summary

This test report supports an application for certification of a transmitter operating pursuant to 47 CFR 15.247 and RSS-210. The product is the IS900 RS422 16 Channel Receiver MN100-IS9-RX16. It is a transmitter/receiver that operates in the range 2405-2480MHz.

We found that the product met the above requirements without modification. The test sample was received in good condition.

Test Methodology

Radiated emission and AC Line conducted testing was performed according to the procedures specified in ANSI C63.4 (2003) and RSS-GEN. Radiated Emissions were maximized by rotating the device around three orthogonal axes as well as varying the test antenna's height and polarity. The device antenna cannot be maximized separately.

The EUT does not have an antenna gain <6dBi. Therefore there is no limit reduction. [15.247 (b) (4)]

Conducted emission at the antenna port was performed as required by rule section.

The EUT operating voltage is 9Vdc powered by a DC Bus.

The environmental conditions are shown below.

| Date | Temperature | Humidity |
|---------|-------------|----------|
| 7/19/07 | 24.4°C | 49% |
| 7/26/07 | 25.1°C | 38% |
| 7/27/07 | 24.6°C | 38% |
| 7/29/07 | 25.1°C | 39% |
| 8/02/07 | 24.6°C | 38% |
| 8/30/07 | 25.1°C | 44% |

The following bandwidths were used during radiated spurious and line conducted emissions.

| Frequency | RBW | VBW |
|------------|--------|-------|
| 0.15-30MHz | 9kHz | 30kHz |
| 30-1000MHz | 120kHz | 1MHz |
| 1-25GHz | 1MHz | 3MHz |

Release Control Record

Issue No. Reason for change Date Issued

1 Original Release August 31, 2007



Product Tested - Configuration Documentation

EUT Configuration

Work Order: H0825

Company: InterSense, Inc Company Address: 36 Crosby Drive

Bedford, MA 01730

Contact: Bob Hommel

EUT MN SN

EUT Description: RS422 16 Channel Receiver

EUT Max Frequency: 2.48GHz

| Support Equipment: | MN | | SN | | |
|------------------------------|-----------|-----------|------------|----------|--|
| IS900 Micro-Transmitter | 100-91000 |)-EWTX | ETX-07072 | 54-A | |
| Head Tracker | 100-91003 | B-AWHT | UHT-07072 | 58-A | |
| Compaq Presario Laptop | 1670 | | 1V92CGX3I | P4TS | |
| Serial to RS232 Dongle | N/A | | NA | | |
| Dongle Supply (9Vdc) | KSAFE09 | 00275T1M2 | NA | | |
| Base Unit (for AC CEMI Only) | 100-IS900 | -PCU8 | I9B-060966 | 3-0 | |
| EUT Cables: | Qty | Shielded? | Length | Ferrites | |
| RS422 Receiver Cable | 1 | Braid | 1m | None | |
| Unpopulated EUT Ports: | Qty | Reason | | | |
| None | | · | | | |

Software / Operating Mode Description:

EUT uses DSS in the 2.4 to 2.48GHz range. 16 channels can be selected at 5MHz spacing. No frequency hopping is implemented. EUT uses three different programs. DeviceTool allows you to change channels, FCC_Wireless puts the EUT in normal pulse mode operation. FCC_Direct.exe allows you to put the EUT in continuous Tx mode, with or without modulation.

Statement of Conformity

The IS900 RS422 16 Channel Receiver has been found to conform to the following parts of 47 CFR, RSS-GEN and RSS 210 as detailed below:

| RSS-GEN | RSS 210 | Part 15 | Comments |
|---------|---------|------------------|---|
| 5.3 | | 15.15(b) | There are no controls accessible to the user that varies the output power. |
| 5.2 | | 15.19 | The label is shown in the label exhibit. |
| 7.1.5 | | 15.21 | Information to the user is shown in the instruction manual exhibit. |
| | | 15.27 | No special accessories are required for compliance. |
| | | 15.31 | The EUT was tested in accordance with the measurement standards in this section. |
| | | 15.33 | Frequency range was investigated according to this section, unless noted in specific rule section under which the equipment operates. |
| | | 15.35 | The EUT emissions were measured using the measurement detector and bandwidth specified in this section, unless noted in specific rule section under which the equipment operates. |
| 7.1.4 | | 15.203 | The antenna for this device is hardwired to the PCB. |
| | 2.6 | 15.205 15.209 | The fundamental is not in a Restricted band and the spurious and harmonic emissions in the Restricted bands comply with the general emission limits of 15.209. |
| 7.2.2 | | 15.207 | EUT meets the AC Line conducted emissions requirements of 15.207. |
| | Annex 8 | 15.247 | The unit complies with the requirements of 15.247 |
| 4.6.1 | | | Occupied Bandwidth measurements were made. |

Test Results

Bandwidth

LIMIT

The minimum 6 dB bandwidth shall be at least 500 kHz. [15.247(a) (2)]

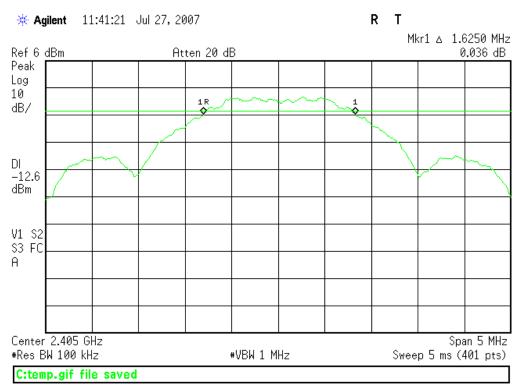
MEASUREMENTS / RESULTS

RBW = 100kHzVBW = 1MHz

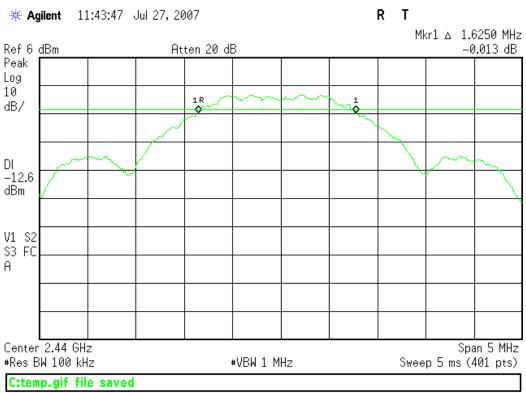
Measured 6dB bandwidth = Channel 0 – 1.6250MHz Channel 7 – 1.6250MHz Channel 15 – 1.6125MHz

All readings exceed the limit of 500kHz therefore the EUT passes the requirement.

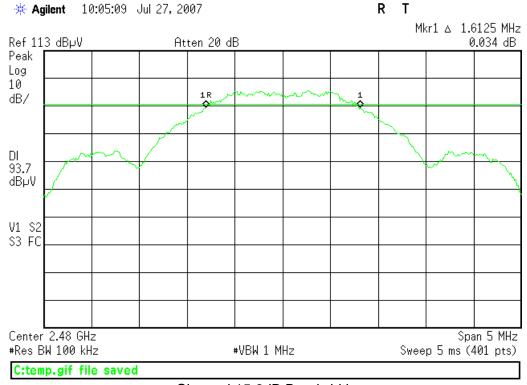
PLOTS



Channel 0 6dB Bandwidth







Channel 15 6dB Bandwidth

Peak Power

LIMIT

Conducted Output Power at the antenna port 1 Watt [15.247(b) (3)]

MEASUREMENTS / RESULTS

RBW = 3MHzVBW = 3MHz

Cable loss factored into Spectrum Analyzer Reading.

Measured conducted output power – Channel 0 = -3.32dBm = 0.00047W

Channel 7 = -2.919dBm = 0.00051W

Channel 15 = -2.84dBm = 0.00052W

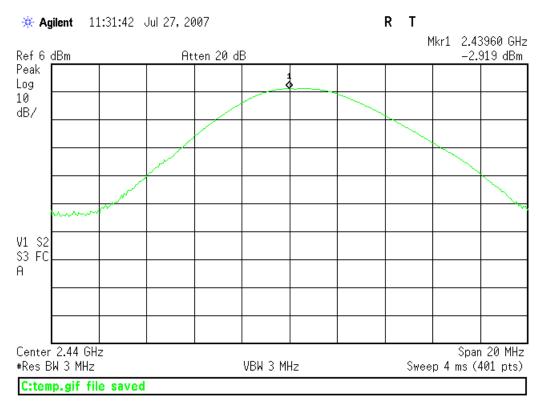
All power readings are below the limit 1 Watt therefore the EUT passes the requirement.

PLOTS

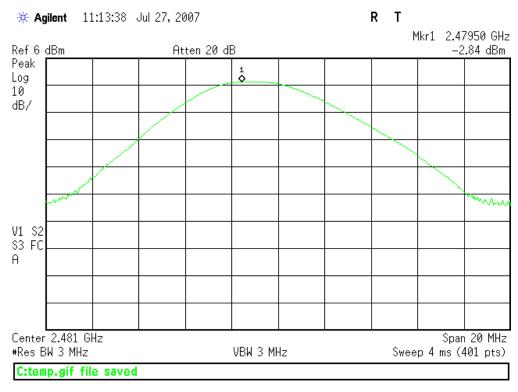


Channel 0 Peak Conducted Output Power Channel 0





Channel 0 Peak Conducted Output Power Channel 7



Channel 0 Peak Conducted Output Power Channel 15



Band Edge Measurements

LIMITS

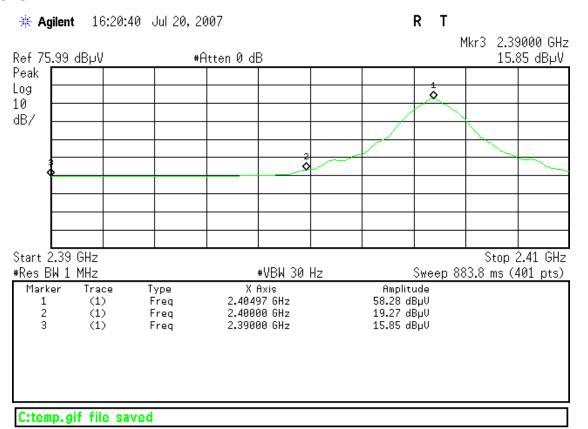
Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). [15.247(d)]

MEASUREMENTS / RESULTS

| Band Ed | ge | | | | | | | | | | Curtis-St | raus LLC |
|--------------|-------------------------------------|----------|--------|-----------|---------|---------|-----------|------------------|----|---------------------|-----------------|-------------|
| Date: | Date: 20-Jul-07 Company: Intersense | | | | | | | | | W | ork Order: | H0825 |
| Engineer: | David Harris | | | EUT Desc: | IS900 R | S422 16 | Channel R | eceiver | | | | |
| | Measurement Distance: 3 m | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Antenna | | | Preamp | Antenna | Cable | DCC | Adjusted | | | FC | FCC Part 15.209 | |
| Polarization | Frequency | Reading | Factor | Factor | Factor | Factor | Reading | | | Limit | Margin | Result |
| (H / V) | (MHz) | (dBµV) | (dB) | (dB/m) | (dB) | (dB) | (dBµV/m) | | | (dBµV/m) | (dB) | (Pass/Fail) |
| Hpk | 2390.0 | 15.9 | 0.0 | 28.9 | 1.4 | 0.0 | 46.2 | | | 74.0 | -27.9 | Pass |
| Hav | 2390.0 | 15.9 | 0.0 | 28.9 | 1.4 | 15.3 | 30.9 | | | 54.0 | -23.1 | Pass |
| Hpk | 2483.5 | 21.5 | 0.0 | 29.1 | 1.4 | 0.0 | 52.0 | | | 74.0 | -22.0 | Pass |
| Hav | 2483.5 | 21.5 | 0.0 | 29.1 | 1.4 | 15.3 | 36.8 | | | 54.0 | -17.3 | Pass |
| Table | e Result: | Pass | by | -14.9 | dB | | | | Wo | orst Freq: | 2483.5 | MHz |
| Test Site: | "T" | Pre-Amp: | none | Cable: | EMIR-H | IGH-14 | | Analyzer: Orange | | Antenna: Black Horn | | |

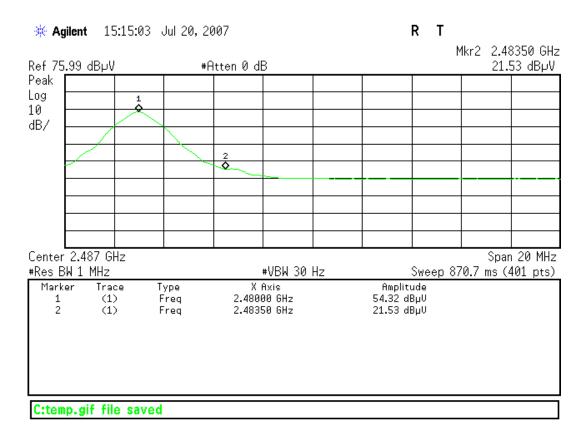
RBW = 1MHzVBW = 30Hz

PLOTS



Low Bandedge Channel 0





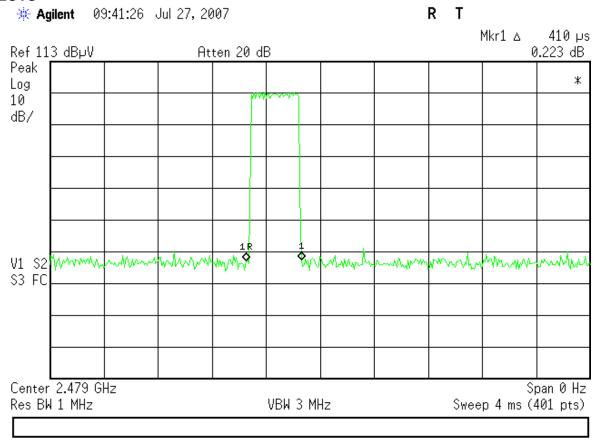
High Bandedge Channel 15

Duty Cycle Correction Calculation

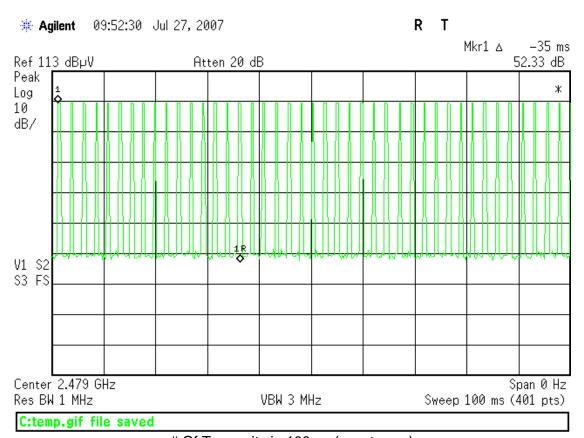
MEASUREMENTS / CALCULATIONS

EUT on time = .410mS # of transmits in 100mS = 42 Total on time = 0.410 x 42 = 17.22mS Duty Cycle = 17.22/100 = .1722 = 17.22% DCCF = 20log(17.22/100) = -15.28dB

PLOTS



EUT on Time of Single Pulse



Of Transmits in 100ms (worst case)

Radiated Spurious Emissions

LIMITS

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). [15.247(d)]

MEASUREMENTS / RESULTS

| | cs (puls | ea emis | | | | | | | Curtis-Stra | | |
|-------------------------|-----------------------------|-------------------|----------------|------------------|----------------|----------------|---------------------|------------------|-------------------|----------------|-----------------------|
| Date: | 26-Jul-07 | | | Company: | Intersen | se | | | Work Order: | H0825 | |
| Engineer: | David Harris | | ı | EUT Desc: | IS900 R | S422 16 | Channel Re | eceiver | | | |
| | Freque | ncy Range: | 1-18GHz | | | | | Measurement D | stance: 3 m | | |
| Notes: | Radiated Spu DCCF -15.28 | | ions Harmo | nics | | | | EUT Ma | ax Freq: 2.4GHz | | |
| Antenna | | | Preamp | Antenna | Cable | DCC | Adjusted | | FC | C Part 15.2 | 209 |
| Polarization (H / V) | Frequency (MHz) | Reading (dBµV) | Factor (dB) | Factor (dB/m) | Factor (dB) | Factor (dB) | Reading (dBµV/m) | | Limit (dBµV/m) | Margin (dB) | Result (Pass/Fail) |
| Channel 0 | | | | | | | | | | | |
| Vpk | 4810 | 58.33 | 39.5 | 33.0 | 1.8 | 0.0 | 53.6 | | 74.0 | -20.4 | Pass |
| Vav | 4810 | 58.33 | 39.5 | 33.0 | 1.8 | 15.3 | 38.4 | | 54.0 | -15.7 | Pass |
| Channel 7 | | | | | | | | | | | |
| Vpk | 4870 | 61.7 | 39.5 | 33.1 | 1.8 | 0.0 | 57.1 | | 74.0 | -16.9 | Pass |
| Vav | 4870 | 61.7 | 39.5 | 33.1 | 1.8 | 15.3 | 41.8 | | 54.0 | -12.2 | Pass |
| Channel 15 | 4050.0 | 00.4 | 00.7 | 00.0 | 4.0 | | 50.7 | | 740 | 45.0 | _ |
| Vpk Vav | 4958.9 4958.9 | 63.4 63.4 | 39.7 39.7 | 33.2 33.2 | 1.8 1.8 | 0.0 15.3 | 58.7 43.4 | | 74.0 54.0 | -15.3 -10.6 | Pass Pass |
| vav | 4936.9 | 03.4 | 39.7 | 33.2 | 1.0 | 13.3 | 43.4 | | 54.0 | -10.0 | F d 5 5 |
| Table | e Result: | Pass | by | -10.6 | dB | | | | Worst Freq: | 4958.9 | MHz |
| Test Site: | "T" | Pre-Amp: | none | Cable: | EMIR-H | IGH-14 | | Analyzer: Orange | Antenna: | Black Horn | |

No other radiated spurious emissions were found in the range 30MHz-25GHz.



Conducted Spurious Emissions

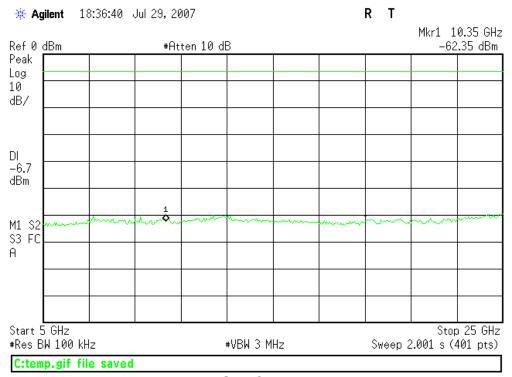
LIMITS

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth that contains the highest level of desired power...
[15.247(d)]

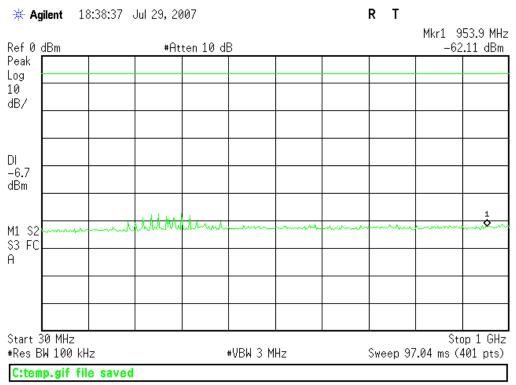
MEASUREMENTS / RESULTS

RBW = 100kHzVBW = 3MHz

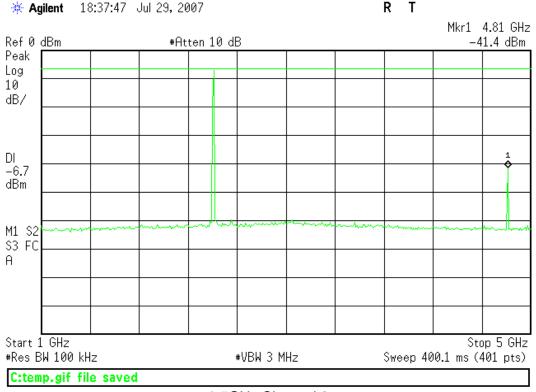
All Spurious and Harmonic emission are at least 20dB below that of the fundamental; therefore the EUT passes the requirement. See plots for data.



5-25GHz Channel 0

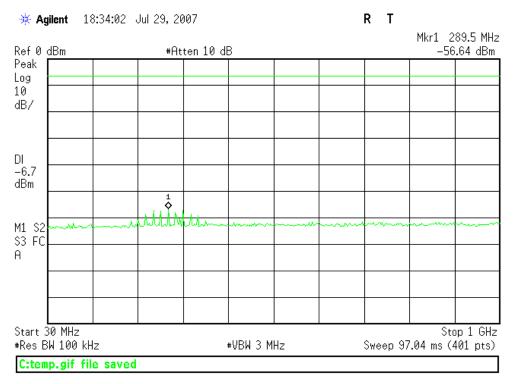


30-1000MHz Channel 0

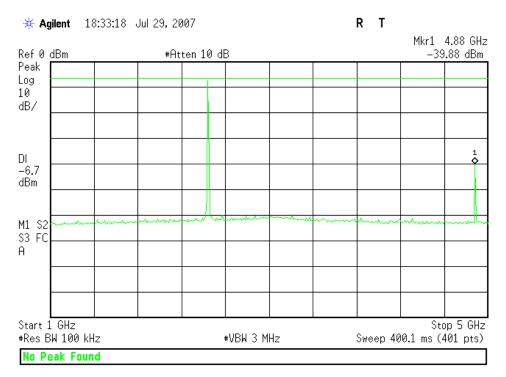


1-5GHz Channel 0



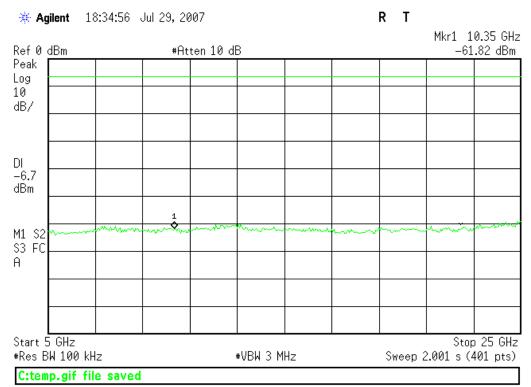


30-1000MHz Channel 7

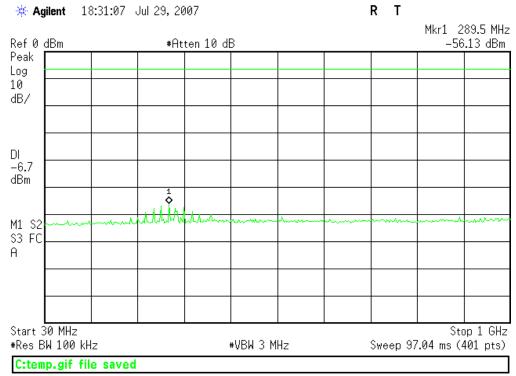


1-5GHz Channel 7

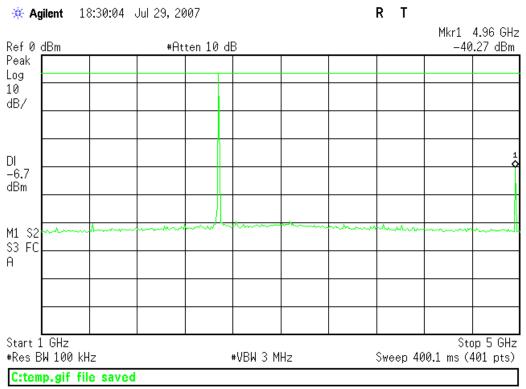




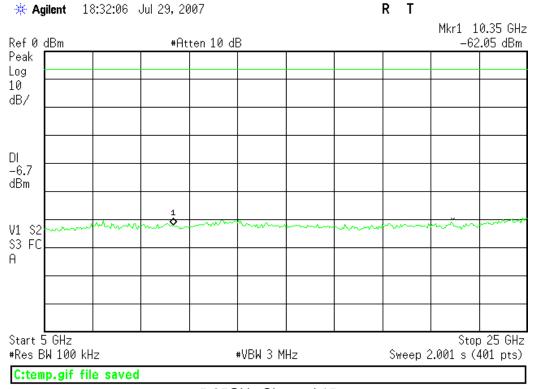
5-25GHz Channel 7



30-1000MHz Channel 15



1-5GHz Channel 15



5-25GHz Channel 15

Power Spectral Density

LIMIT

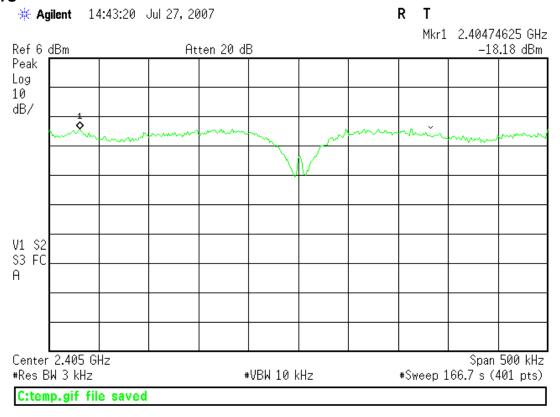
...the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission. [15.247(e)]

MEASUREMENTS / RESULTS

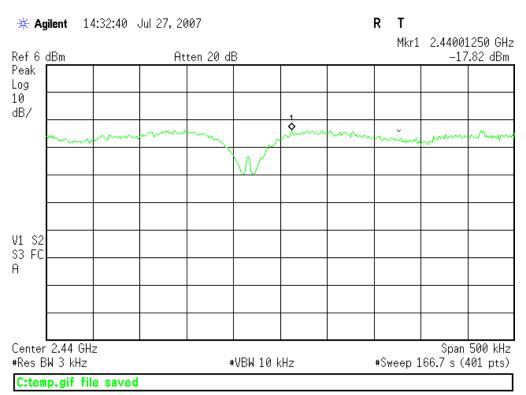
Highest Power Spectral Density – Channel 0 = -18.18dBm Channel 7 = -17.82dBmChannel 15 = -17.26 dBm

All measurements are below the 8dBm limit therefore the EUT meets the requirement.

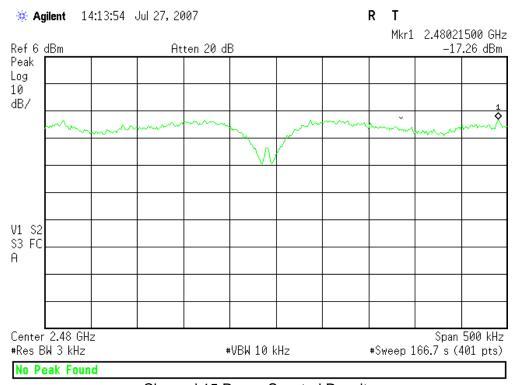
PLOTS



Channel 0 Power Spectral Density



Channel 7 Power Spectral Density



Channel 15 Power Spectral Density

AC Line Conducted Emissions LIMITS

| Frequency of | Quasi-peak limit | Average limit |
|----------------|------------------|---------------|
| emission (MHz) | (dBµV) | (dBµV) |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

^{*}Decreases with the logarithm of the frequency.

[47 CFR 15.207(a)]

MEASUREMENTS / RESULTS

AC line conducted emissions test was performed on the AC side of the InterSense Base unit.

| AC Mains | Conduct | ted Emi | ssions | 5 | | | | | | C | urtis-Stra | us LLC |
|--------------------------------------|---|----------|---------|----------------------------------|-----------|--------|--------|----------|------------|--------------|------------|-------------|
| Date: | Date: 30-Aug-07 Company: Intersense Work Order: h | | | | | | | | | | H0825 | |
| Engineer: | David Harris | | E | EUT Desc: Receiver Test Site: EM | | | | | | | | |
| Notes: Testing AC Side of base unit. | | | | | | | | | | | | |
| Measurement D | | Red LISN | | | | | | | | | | |
| Range: | 0.15-30MHz | | | | | | | | Spectr | um Analyzer: | White | |
| | | | | | Impedance | - | - | FCC P | art 15.207 | FCC P | art 15.207 | |
| | Q.P. Rea | adings | Ave. Re | eadings | Factor | | | | | | | Overall |
| Frequency | QP1 | QP2 | AV1 | AV2 | | Limit | Margin | qp Limit | qp Margin | AVE Limit | AVE Margin | Result |
| (MHz) | (dBµV) | (dBµV) | (dBµV) | (dBµV) | (dB) | (dBµV) | dB | (dBµV) | dB | (dBµV) | dB | (Pass/Fail) |
| 0.16 | 38.0 | 37.5 | 31.0 | 32.2 | 20.3 | | | 65.3 | -7.0 | 55.3 | -2.8 | Pass |
| 1.50 | 9.8 | 7.8 | 7.0 | 5.9 | 20.1 | | | 56.0 | -26.1 | 46.0 | -18.9 | Pass |
| 22.66 | 5.2 | 8.0 | 1.4 | 2.5 | 20.5 | | | 60.0 | -31.5 | 50.0 | -27.0 | Pass |
| 22.98 | 5.3 | 9.2 | 1.2 | 4.5 | 20.5 | | | 60.0 | -30.3 | 50.0 | -25.0 | Pass |
| 24.27 | 3.4 | 11.4 | 0.9 | 6.7 | 20.5 | | | 60.0 | -28.1 | 50.0 | -22.8 | Pass |
| 25.31 | 2.2 | 8.1 | 0.7 | 3.3 | 20.5 | | | 60.0 | -31.4 | 50.0 | -26.2 | Pass |
| Tab | le Result: | Pass | by | -2.84 | dB | | | | Wo | orst Freq: | 0.16 | MHz |

Voltage Variations

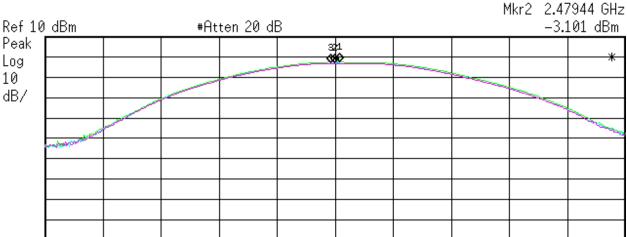
REQUIREMENT

Measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery powered equipment, the equipment tests shall be performed using a new battery. [15.31(e)]

MEASUREMENTS / RESULTS

| Trace | Vdc | Frequency (MHz) | Amplitude (dBm) |
|---------------------|-------|-----------------|-----------------|
| 1 (nominal) | 9 | 2479.59 | -2.588 |
| 2 (115% of nominal) | 11.25 | 2479.44 | -3.101 |
| 3 (85% of nominal) | 7.65 | 2479.29 | -3.160 |

★ Agilent 15:48:55 Aug 2, 2007 R T



 Center 2.479 GHz
 Span 20 MHz

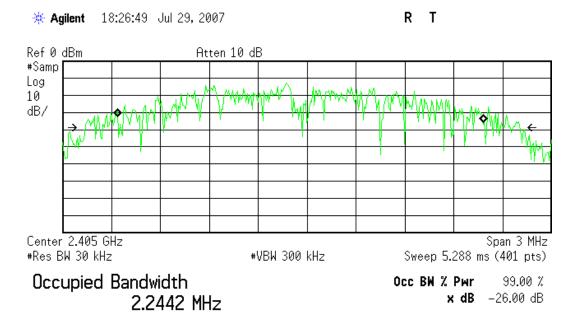
 #Res BW 5 MHz
 VBW 3 MHz
 Sweep 4 ms (401 pts)

| Marker | Trace | Type | X Axis | Amplitude | |
|--------|-------|------|-------------|------------|--|
| 1 | (1) | Freq | 2.47959 GHz | -2.588 dBm | |
| 2 | (2) | Freq | 2.47944 GHz | -3.101 dBm | |
| 3 | (3) | Freq | 2.47929 GHz | -3.16 dBm | |
| | | | | | |

Occupied Bandwidth

REQUIREMENT

When an occupied bandwidth is no specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured. [RSS-GEN 4.6.1]



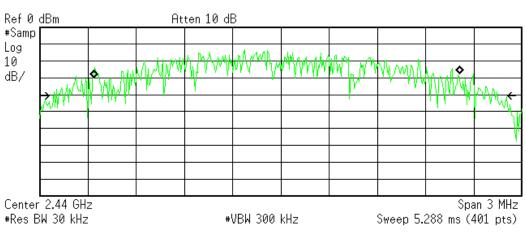
Transmit Freq Error -38.358 kHz x dB Bandwidth 2.669 MHz*

C:temp.gif file saved

99% Occupied Bandwidth Channel 0

* Agilent 18:27:58 Jul 29, 2007

R T

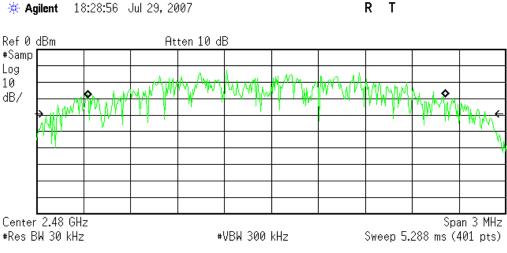


Occupied Bandwidth 2.2707 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -26.914 kHz x dB Bandwidth 2.748 MHz*

C:temp.gif file saved

99% Occupied Bandwidth Channel 7



Occupied Bandwidth 2.2795 MHz

Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error −29.227 kHz x dB Bandwidth −2.790 MHz*

C:temp.gif file saved

99% Occupied Bandwidth Channel 15

Test Equipment Used

MIXER / HORN

MIXER / HORN

DIPLEXER

90-140 GHz

140-220 GHz

40-220 GHz

| | | | | | | | R | EV. 30-JUL | -2007 | |
|--------------------------------|------------|----------------|----------|-------------|---------|-------------|-------------|-----------------|---------|-----------------------------|
| SPECTRUM ANALY RECEIVERS | | RANGE | MN | I MF | ₹ | SN | ASSET | CA ⁻ | Γ | CALIBRATION DUE |
| RED | | 9kHz-1.8GHz | 8591 | | | 141A03559 | | I | | 08-JAN-2008 |
| WHITE | | 9kHz-22GHz | 8593 | | | 547U01252 | 00022 | I | | 06-OCT-2007 |
| BLUE | | 9kHz-1.8GHz | 8591 | | | 223A00227 | | I | | 18-DEC-2007 |
| YELLOW | | 9kHz-2.9GHz | 8594 | | nt 3 | 523A01958 | 00100 | - 1 | | 08-JUN-2008 |
| GREEN | | 9kHz-26.5GHz | 8593 | BE Agile | nt 38 | 329A03618 | 00143 | - 1 | | Out of Cal |
| BLACK | | 9kHz-12.8GHz | 8596 | | | 710A00944 | 00337 | - 1 | | Out of Cal |
| TELECOM 358 | 5A | 20Hz-40.0MHz | 3585 | SA Agile | nt 2 | 504A05219 | 00030 | I | | 15-FEB-2008 |
| TELECOM 358 | 5A | 20Hz-40.0MHz | 3585 | | | 750A03418 | 00558 | - 1 | | Out of Service |
| TELECOM 358 | 5A | 20Hz-40.0MHz | | | | 750A02762 | | - 1 | | Out of Service |
| ORANGE | | 9kHz-26.5GHz | E440 | | | S39440975 | | ı | | Out of Service |
| GOLD | | 100Hz-26.5 GHz | E440 | | | Y45113816 | | i | | 25-JUL-2008 |
| REFERENCE EMI TEST | RECEIVER | 20-1000MHz | ESVS | | | 27957/001 | 01098 | i | | To be determined |
| RENTAL SA #1 (Br | | 9kHz-26.5GHz | E440 | | | 344210511 | | i | | 01-FEB-2008 |
| RENTAL SA # | , | 100Hz-26.5 GHz | E740 | | | Y44212795 | | i | | 28-DEC-2007 |
| RENTAL SA # | | 9kHz-1.8GHz | 8591E | | | | | | | 25-JUL-2008 |
| | | | | | | 536A00617 | | ! | | |
| RENTAL SA # | 4 | 100Hz-3 GHz | E740 | 2A Agile | nt ivi | Y45103221 | Rental | ı | | 23-JUL-2008 |
| LISNS/MEASUREM | ENT | | | | | | | | | |
| PROBES | | RANGE | | MN | MFF | ! | SN | ASSET | Сат | CALIBRATION DUE |
| RED | | 9kHz-50MHz | 8012-50- | -R-24-BNC | SOLA | R 95 | 56348 | 00753 | I | 06-JUN-2008 |
| BLUE (DC) | | 50kHz-50MHz | 8012-50- | -R-24-BNC | SOLA | R 95 | 6349 | 00752 | - 1 | 06-JUN-2008 |
| YELLOW-BLACK | | 9kHz-50MHz | | -R-24-BNC | SOLA | | 11657 | 00248 | - 1 | 24-MAY-2008 |
| ORANGE | | 9kHz-30MHz | | -R-24-BNC | SOLA | | 3707 | 00754 | - 1 | 07-MAY-2008 |
| GOLD (DC) | | 9kHz-50MHz | | -R-24-BNC | SOLA | | 34734 | 00247 | i | 13-JUN-2008 |
| Brown | | 50kHz-50MHz | | -R-24-BNC | SOLA | | 11656 | 00986 | i | 12-JUN-2008 |
| GREEN | | 9kHz-50MHz | | -R-24-BNC | SOLA | | 34735 | 00987 | - ; | 12-JUN-2008 |
| | | | | | | | | | | |
| YELLOW | | 9kHz-50MHz | | -R-24-BNC | SOLA | | 11658 | 1080 | ! | 06-JUN-2008 |
| WHITE-BLACK | | 10kHz-30MHz | | -TS-100-N | SOLA | | 72019 | 00678 | ! | 17-MAY-2008 |
| BLACK | | 10kHz-30MHz | | -TS-100-N | SOLA | | 72017 | 00675 | Į. | 18-MAY-2008 |
| RED-BLACK | | 10kHz-30MHz | | -TS-100-N | SOLA | | 72016 | 00677 | ı | 18-MAY-2008 |
| Blue-Black | | 10kHz-30MHz | 8610-50 | -TS-100-N | SOLA | | 72018 | 00676 | I | 17-MAY-2008 |
| Blue Monitoring Pi | ROBE | 0.01-150MHz | 915 | 550-2 | TEGA | м 1 | 2350 | 00807 | I | 31-MAY-2009 |
| YELLOW MONITORING | Probe | 0.01-150MHz | 915 | 550-2 | ETS | 5 5 | 0972 | 00493 | - 1 | 23-JAN-2008 |
| GREEN CURRENT TRANSF | ORMER | 40Hz-20MHz | 1 | 150 | PEARS | | 0226 | 00793 | 1 | 19-APR-2009 |
| BLUE CISPR LINE PR | ROBE | 10kHz-50MHz | | N/A | C-S | | N/A | 00805 | II | 08-JUN-2009 |
| BLACK CISPR LINE PI | | 10kHz-50MHz | | N/A | C-S | | N/A | 1254 | ii | 08-JUN-2009 |
| CISPR TELCO VOLTAGE | | 10kHz-30MHz | | √C-10 | C-S | | S01 | 00296 | ii | 17-NOV-2007 |
| CISPR 22 TELCO I | | 9kHz-30MHz | | LISN-T4 | FISCH | | 0115 | 00230 | ı" İ | 15-NOV-2007 |
| OIOI IV ZZ TELOOT | 011 | ON IZ COM IZ | 1001 | LIGIT 14 | 1 10011 | LIK Z | 0110 | 00140 | | 10 110 1 2007 |
| OPEN AREA TEST | T SITES (O | ATS) | FCC Cc | DDE | IC Co | DE \ | /CCI CODE | Сат | | CALIBRATION DUE |
| SITE | | | 9344 | 8 | IC 2762 | A-1 | R-1688 | II | | 23-JUN-2008 |
| SITE | | | 9344 | | IC 2762 | | R-905 | II | | 23-JUN-2008 |
| SITE | | | 9344 | | IC 276 | | R-903 | II | | 20-JUN-2008 |
| SITE | | | 9344 | | IC 276 | | R-904 | ii | | 19-JUN-2008 |
| SITE | | | 9344 | | IC 2762 | | R-2377 | ii | | 12-APR-2008 |
| | | | | | | | | | | |
| CONDUCTED TEST SI | | S/TELCO) | FCC Co | | IC Co | | VCCI COD | | Сат | CALIBRATION DUE |
| EM | | | 9344 | | N/A | | C-1801, T-2 | | Ш | NA |
| EM | II 2 | | 9344 | 8 | N/A | | C-1802, T-2 | 69 | Ш | NA |
| EM | 13 | | 9344 | 8 | N/A | | C-1803, T-2 | 70 | Ш | NA |
| MIXERS/DIPLEXERS | DANCE | MN | | MFR | | SN | , | ASSET | Сат | CALIBRATION DUE |
| MIXERS/DIPLEXERS MIXER / HORN | 26.5-40 GH | | -442-6 | HP/ATM | 23324 | .01695/A046 | | 1087 | I | CALIBRATION DUE 23-AUG-2007 |
| MIXER / HORN | 26.5-40 GH | | _ | HP/ATM | | .07825/A046 | | 1086 | i | 19-SEP-2007 |
| MIXER / HORN | 40-60 GHz | | _ | OML | 5000F | U30110-1 | | 0821 | i | 29-JUN-2009 |
| MIXER / HORN | 33-50 GHz | | | HP | | 3003A03155 | |)062 i)0104 | 1 | 08-NOV-2007 |
| | | | | | 050 | | | | | |
| MIXER / HORN | 50-75 GHz | | | HP/QuinStar | 252 | A01197/879 | | 1179 | ! | 15-NOV-2007 |
| MIXER | 75-110 GH | | | HP | | 2521A01334 | | 0105 | ! | 22-NOV-2007 |
| MIXER / HORN | 60-90 GHz | | | OML | | E30110-1 | | 00822 | ! | 29-JUN-2009 |
| MIVED / HODAI | On 1/0 CU | ~ N/CYOU\/ | 1111 | OM | | E21206 1 | | 1/10/1/1 | | 000 m/M 2000 |

00811

00812

00813

MO8HW/A

MO5HW/A

DPL.26

OML

OML

OML

F21206-1

G21206-1

N/A

29-JUN-2009

29-JUN-2009

29-JUN-2009

| Absorbing Clamps | RANGE | MN | | MFR | SN | Asse | T (| CAT | CALIBRATION DUI |
|--|---|---|---|---|---|---|--------------|---|---|
| FISCHER CLAMP | 30-1000MHz | F-201-23 | MM F | FISCHER | 10 | 0008 | 1 | I | 20-JAN-2008 |
| HARMONIC & FLICKER AI | VALYZER | MN | MFR | S | iN . | As | SSET | Сат | CALIBRATION DUI |
| HFTS | | P6842A | HP | | -00169 | | 738 | II | OUT OF CAL |
| 10001I/2 AC POWER SY | | | DRNIA INSTRUMENT | | | | 376 | ii | 09-JAN-2008 |
| PREAMPS / ATTENUATORS / FILTERS | RANGE | | MN | MFR | S | SN | ASSET | Сат | CALIBRATION D |
| RED | 0.009-2000M | IHz 7FI - | ·1000-LN | C-S | N | /A | 00798 | II | 20-APR-2008 |
| BLUE | 0.009-2000M | | -1000 LN | C-S | | /A | 00759 | ii | 17-APR-2008 |
| BLUE-BLACK | 0.009-2000M | | ·1000-LN | C-S | | /A | 00800 | ii | 18-JAN-2008 |
| GREEN | 0.009-2000M | | ·1000-LN | C-S | | /A | 00802 | ii | 02-MAY-200 |
| BLACK | 0.009-2000M | | ·1000-LN | C-S | | /A | 00799 | ii | 19-JUL-2008 |
| ORANGE | 0.009-2000M | | -1000-LN | C-S | | /A | 00765 | ii | 02-MAY-200 |
| RED-WHITE | 0.009-2000M | | -1000-LN | C-S | | /A | 1258 | ii | 08-MAY-200 |
| WHITE | 1-20GHz | | 1C-12A | C-S | | 643 | 00760 | ii | 09-JUL-2008 |
| BROWN | 1-20GHz | | 3-4R5-17-15-SFF | C-S | | 1655 | 1132 | ii | 02-APR-200 |
| YELLOW-BLACK | 1-20GHz | | 1C-12A | C-S | | 5055 | 00801 | ii | OUT OF SERVI |
| RED-GREEN | 1-20GHz | | 3-4R5-17-15-SFF | C-S | | /A | 1256 | '' | 14-AUG-200 |
| RED-GREEN RED-BLUE | 1-20GHz | | 8-4R5-17-15-SFF | C-S | | 7A 3177 | 1256 | " | 19-APR-200 |
| HF (YELLOW) | 18-26.5GH | | 02650-60-8P-4 | C-S | | 7559 | 1266 | " | 23-AUG-200 |
| HIGH PASS FILTER | 1-18 GHz | | -F-55204 | K&L | | 359 | 00817 | i | 05-JAN-200 |
| LOW PASS FILTER | 1-16 GHz 1-9 GHz | | -F-55204 100/X4400-O/O | K&L | | 4 | 00817 | !! !! | 05-JAN-2008 |
| HIGH PASS FILTER | 2.3-5.5 GH | | HP-19 | MINI-CIRCUITS | | 4 IA | 1287 | " | 05-JAN-2008 |
| HIGH PASS FILTER | 2.3-5.5 GH 1.9-2.7 GH | | HP-19 | MINI-CIRCUITS MINI-CIRCUITS | | IA IA | 1287 | II | 05-JAN-2008 |
| HF 20DB 50W ATTENUATOR | 0.03-20 GH | | 7019-20 | | | | 00791 | | 08-MAY-200 |
| | | | | PASTERNACK | |)1)2 | | II II | |
| HF 30dB 50W ATTENUATOR 40dB 100W ATTENUATOR | 0.03-20 GH 0.09-4000MI | | 7019-30 | PASTERNACK | | 1900638 | 1168 1231 | II. | 08-MAY-200 |
| RFI-Low 130 KHz LPF | 10-100kHz P | | 0N100W+ ĸHz LPF | MINI-CIRCUITS KIWA | | 1A | 1235 | | 08-NOV-200 12-MAR-200 |
| ANTENNAS | RANGE | MN | MFR | SN | ASSET | Сат | | CALIBR | ATION DUE |
| GREEN BILOG | 30-2000MHz | CBL6112B | CHASE | 2742 | 00620 | II | | | AN-2008 |
| GREEN-BLACK BILOG | 30-2000MHz | CBL6112B | CHASE | 2412 | 00020 | ii | | | AN-2008 |
| GREEN-RED BILOG | 30-2000MHz | CBL6112B | CHASE | 2435 | 00127 | ï | | | PR-2008 |
| BLUE BILOG | 30-1000MHz | 3143 | EMCO | 1271 | 00803 | ii | | | AY-2009 |
| GRAY BILOG | 20-2000MHz | 3141 | EMCO | 9703-1038 | 00066 | ii | 07 MAV | | A 1-2009) / 04-FEB-2008(RF |
| YELLOW-BLACK BILOG | 20-2000MHz | CBL6140A | CHASE | 1112 | 00000 | ii | | | II) /20-APR-2008(RI |
| RED-WHITE BILOG | 30-2000MHz | JB1 | SUNOL | A091604-1 | 01105 | - 11 | U7-IVIAT | ` | 0V-2008 |
| RED-WHITE BILOG | 30-2000MHz | JB1 | SUNOL | A091604-1 | 01105 | - | | | CT-2008 |
| RED-BROWN BILOG | 30-2000MHz | JB1 | SUNOL | A0032406 | 1218 | - | | | JG-2008 |
| NED-DROWN DILUG | 30-2000WII IZ | | SUNUL | | | | 04 1441/ | - | I) / 14-JUN-2008 (R |
| VELLOW HORN | 1.19047 | 2115 | EMCO | 0600 4000 | 00027 | | | | i)/ 14-3011-2006 (IN |
| YELLOW HORN | 1-18GHz | 3115 3115 | EMCO | 9608-4898 | 00037 | ! | | , |) / 16 MAV 2009 (P |
| BLACK HORN | 1-18GHz | 3115 | EMCO | 9703-5148 | 00056 | | 22-JUN-2 | 2009(EMI | |
| BLACK HORN ORANGE HORN | 1-18GHz 1-18GHz | 3115 3115 | EMCO EMCO | 9703-5148 0004-6123 | 00056 00390 | | 22-JUN-2 | 2009(EMI 2009 (EMI |) / 16-MAY-2008 (R |
| BLACK HORN ORANGE HORN HF (WHITE) HORN | 1-18GHz 1-18GHz 18-26.5GHz | 3115 3115 801-WLM | EMCO EMCO Waveline | 9703-5148 0004-6123 00758 | 00056 00390 00758 | | 22-JUN-2 | 2009(EMI 2009 (EMI 26-AI |) / 16-MAY-2008 (R JG-2007 |
| BLACK HORN ORANGE HORN HF (WHITE) HORN SMALL LOOP | 1-18GHz 1-18GHz 18-26.5GHz 10kHz-30MHz | 3115 3115 801-WLM PLA-130/A | EMCO EMCO WAVELINE ARA | 9703-5148 0004-6123 00758 1024 | 00056 00390 00758 00755 | 1 | 22-JUN-2 | 2009(EMI 2009 (EMI 26-AI 22-FI |) / 16-MAY-2008 (F JG-2007 EB-2008 |
| BLACK HORN ORANGE HORN HF (WHITE) HORN SMALL LOOP LARGE LOOP | 1-18GHz 1-18GHz 18-26.5GHz 10кHz-30MHz 20Hz-5MHz | 3115 3115 801-WLM PLA-130/A 6511 | EMCO EMCO WAVELINE ARA EMCO | 9703-5148 0004-6123 00758 1024 9704-1154 | 00056 00390 00758 00755 00067 | | 22-JUN-2 | 2009(EMI 2009 (EMI 26-AI 22-FI 23-J/ |) / 16-MAY-2008 (R JG-2007 EB-2008 AN-2008 |
| BLACK HORN ORANGE HORN HF (WHITE) HORN SMALL LOOP LARGE LOOP ACTIVE MONOPOLE | 1-18GHz 1-18GHz 18-26.5GHz 10KHZ-30MHZ 20HZ-5MHZ 30HZ-30MHZ | 3115 3115 801-WLM PLA-130/A 6511 3301B | EMCO EMCO WAVELINE ARA EMCO EMCO | 9703-5148 0004-6123 00758 1024 9704-1154 3824 | 00056 00390 00758 00755 00067 00068 | | 22-JUN-2 | 2009(EMI 2009 (EMI 26-AI 22-FI 23-J/ 14-JI |) / 16-MAY-2008 (R JG-2007 EB-2008 AN-2008 JN-2008 |
| BLACK HORN ORANGE HORN HF (WHITE) HORN SMALL LOOP LARGE LOOP ACTIVE MONOPOLE INDUCTION COIL | 1-18GHz 1-18GHz 18-26.5GHz 10KHZ-30MHZ 20HZ-5MHZ 30HZ-30MHZ 50-60HZ | 3115 3115 801-WLM PLA-130/A 6511 3301B 1000-4-8 | EMCO EMCO WAVELINE ARA EMCO EMCO C-S | 9703-5148 0004-6123 00758 1024 9704-1154 3824 N/A | 00056 00390 00758 00755 00067 00068 00778 | | 22-JUN-2 | 2009(EMI 2009 (EMI 26-AI 22-FI 23-J/ 14-JI 26-S |) / 16-MAY-2008 (R JG-2007 EB-2008 AN-2008 JN-2008 EP-2007 |
| BLACK HORN ORANGE HORN HF (WHITE) HORN SMALL LOOP LARGE LOOP ACTIVE MONOPOLE INDUCTION COIL ADJUSTABLE DIPOLE | 1-18GHz 1-18GHz 18-26.5GHz 10кHz-30MHz 20Hz-5MHz 30Hz-30MHz 50-60Hz 30-1000MHz | 3115 3115 801-WLM PLA-130/A 6511 3301B 1000-4-8 3121C | EMCO EMCO WAVELINE ARA EMCO EMCO C-S EMCO | 9703-5148 0004-6123 00758 1024 9704-1154 3824 N/A 1370 | 00056 00390 00758 00755 00067 00068 00778 00757 | | 22-JUN-2 | 2009(EMI 26-AI 22-FI 23-J/ 14-JI 26-S 26-O |) / 16-MAY-2008 (R JG-2007 EB-2008 AN-2008 JN-2008 EP-2007 CT-2008 |
| BLACK HORN ORANGE HORN HF (WHITE) HORN SMALL LOOP LARGE LOOP ACTIVE MONOPOLE INDUCTION COIL ADJUSTABLE DIPOLE ADJUSTABLE DIPOLE | 1-18GHz 1-18GHz 18-26.5GHz 10кHz-30MHz 20Hz-5MHz 30Hz-30MHz 50-60Hz 30-1000MHz 30-1000MHz | 3115 3115 801-WLM PLA-130/A 6511 3301B 1000-4-8 3121C 3121C | EMCO EMCO WAVELINE ARA EMCO EMCO C-S EMCO EMCO | 9703-5148 0004-6123 00758 1024 9704-1154 3824 N/A 1370 1371 | 00056 00390 00758 00755 00067 00068 00778 00757 | | 22-JUN-2 | 2009(EMI 26-AI 26-AI 22-FI 23-J/ 14-JI 26-S 26-O 09-N |) / 16-MAY-2008 (R JG-2007 EB-2008 AN-2008 JN-2008 EP-2007 CT-2008 OV-2008 |
| BLACK HORN ORANGE HORN HF (WHITE) HORN SMALL LOOP LARGE LOOP ACTIVE MONOPOLE INDUCTION COIL ADJUSTABLE DIPOLE ADJUSTABLE DIPOLE RE101 LOOP SENSOR | 1-18GHz 1-18GHz 18-26.5GHz 10кHz-30MHz 20Hz-5MHz 30Hz-30MHz 50-60Hz 30-1000MHz 30-1000MHz 30Hz-100кHz | 3115 3115 801-WLM PLA-130/A 6511 3301B 1000-4-8 3121C 3121C RE101-13.3cm | EMCO EMCO WAVELINE ARA EMCO EMCO C-S EMCO EMCO C-S | 9703-5148 0004-6123 00758 1024 9704-1154 3824 N/A 1370 1371 N/A | 00056 00390 00758 00755 00067 00068 00778 00757 00756 00818 | | 22-JUN-2 | 2009 (EMI 2009 (EMI 26-AI 22-FI 23-J/ 14-JI 26-S 26-O 09-Ni 22-M |) / 16-MAY-2008 (R JG-2007 EB-2008 AN-2008 JN-2008 EP-2007 CT-2008 OV-2008 AR-2009 |
| BLACK HORN ORANGE HORN HF (WHITE) HORN SMALL LOOP LARGE LOOP ACTIVE MONOPOLE INDUCTION COIL ADJUSTABLE DIPOLE ADJUSTABLE DIPOLE | 1-18GHz 1-18GHz 18-26.5GHz 10кHz-30MHz 20Hz-5MHz 30Hz-30MHz 50-60Hz 30-1000MHz 30-1000MHz | 3115 3115 801-WLM PLA-130/A 6511 3301B 1000-4-8 3121C 3121C | EMCO EMCO WAVELINE ARA EMCO EMCO C-S EMCO EMCO | 9703-5148 0004-6123 00758 1024 9704-1154 3824 N/A 1370 1371 | 00056 00390 00758 00755 00067 00068 00778 00757 | | 22-JUN-2 | 2009 (EMI 2009 (EMI 26-AI 22-FI 23-J/ 14-JI 26-S 26-O 09-Ni 22-M | EB-2008 AN-2008 JN-2008 EP-2007 CT-2008 OV-2008 |
| BLACK HORN ORANGE HORN HF (WHITE) HORN SMALL LOOP LARGE LOOP ACTIVE MONOPOLE INDUCTION COIL ADJUSTABLE DIPOLE ADJUSTABLE DIPOLE RE101 LOOP SENSOR RS101 RADIATING LOOP | 1-18GHz 1-18GHz 18-26.5GHz 10kHz-30MHz 20Hz-5MHz 30Hz-30MHz 50-60Hz 30-1000MHz 30-1000MHz 30Hz-100kHz 30Hz-100kHz | 3115 3115 801-WLM PLA-130/A 6511 3301B 1000-4-8 3121C 3121C RE101-13.3cm RS101-12cm | EMCO EMCO WAVELINE ARA EMCO EMCO C-S EMCO EMCO C-S C-S C-S | 9703-5148 0004-6123 00758 1024 9704-1154 3824 N/A 1370 1371 N/A N/A | 00056 00390 00758 00755 00067 00068 00778 00757 00756 00818 00819 | | 22-JUN-2 | 2009 (EMI 2009 (EMI 26-AI 22-FI 23-J/ 14-JI 26-S 26-O 09-Ni 22-M |) / 16-MAY-2008 (R JG-2007 EB-2008 AN-2008 JN-2008 EP-2007 CT-2008 OV-2008 AR-2009 AR-2009 |

C-S

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SCHAFFNER

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RENTAL

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N/A

MODULA6150

711-1100

EMCPRO Plus

VERIFICATION ATTENUATORS

EFT DIRECT COUPLING CAP

MODULA6150

RED BESTEMC-2

EMC PRO PLUS

19-JUL-2008

11-JUL-2008

13-APR-2008

17-MAY-2008

| ESD GENE | | | MN | | | MFR | | SN | | SSET | Сат | CALIBRATION DUE |
|-----------------|----------------------------|----------------------|--------------|---------------------|-----------------|------------------|----------------|-------------------|------|----------------|----------|--|
| GREE | | | NSG435 | | | HAFFNER | | 00839 | | 0763 | Į. | 25-OCT-2007 |
| RED | | | NSG435 | | | HAFFNER | C | 01625 | | 0762 | ! | 06-FEB-2008 |
| YELLO | VV | | 930D | | | ETS | | 201 | - 0 | 0673 | ı ı | 18-AUG-2007 |
| DIPS AND | D INTERRUPT | s | M | N | M | FR | | SN | | ASSET | Сат | CALIBRATION DUE |
| Mor | DULA6150 | | Modul | A6150 | TES | SEQ | | 34525 | | 1268 | I | 11-JUL-2008 |
| INA 6502 AUTOMA | ATIC STEPTRANS | FORMER | INA 6 | | TES | | | 105 | | 1269 | - 1 | 11-JUL-2008 |
| 10001I/2 AC | POWER SYST | EM | (2) 5 | 001 | CALIF INSTRU | | HK536 | 87/HK536 | 88 | 00376 | II | 21-JUN-2008 |
| RED B | BESTEMC-2 | | 711-1 | 100 | SCHAI | FFNER | 2001 | 22-074SC | | 00623 | II | 17-APR-2008 |
| CHAMBERS AND | STRIPLINE | | MN | | | MFR | | SN | Ass | SET CA | т С | ALIBRATION DUE |
| RFI 1 CHA | | 3 M | ETER COM | PACT | F | PANASHIEL | .D | N/A | 007 | | | 20-APR-2008 |
| RFI 2 CHA | MBER | 04' x 07 | 7' SHIELDING | SYSTEM | | LINDGREN | 1 | 13329 | 007 | 95 II | | 04-FEB-2008 |
| RFI 3 STR | | | N/A | | | C-S | | N/A | 007 | | | NA |
| ENVIRONMENT | | | ECL5 | _ | | B-M-A INC | | 2041 | 000 | | | 03-JAN-2008 |
| ENVIRONMENT | AL (SAFETY) | | SGTH-31 | S | l | B-M-A Inc |). | 2245 | 003 | 21 I | | 03-JAN-2008 |
| AMPLIFIERS | RANGE | | 1N | MFR | | SN | Asset | Сат | | | | ATION DUE |
| RED | 0.5-1000MHz | | 1000B | AR | | 18708 | 00032 | II | | | | 2008 (RFI1) |
| GREEN | 0.5-1000MHz | | 1000B | AR | | 23423 | 00123 | II | 00.1 | | | 2008 (RFI2) |
| BLUE BLACK | 0.01-250MHz 0.01-250MHz | | \250 \250 | AR AR | | 19165 23411 | 00039 00122 | II II | | , | , | / 19-JUN-2008 (NEBS CRFI) JN-08 (NEBS) / 20-APR-08 (RFI1) |
| ORANGE | 0.01-250MHz | | A250 A250 | AR | | 26827 | 00122 | II | 29-L | , | , | RFI)/ 29-JUN-2008 (EU) |
| BROWN 150W | 0.1-250MHz | | A250 | AR | | 13454 | 1255 | ii | | , | | 2008 (RFI2) |
| GTC 1-2.6 | 1.0-2.6 GHz | | 5016A | GTC | | 1221 | RENTAL | II | 14- | | | ANGE HORN) / 28-JUN-2008 (BLK) |
| HUGHES 10W | 2.0-4.0GHz | 117 | 7H01 | Hughes | | 055 | RENTAL | II | 14- | JUN-2008 (YELI | LOW HORN | i) /16-MAY-2008 (BLK & ORANGE) |
| HUGHES 10W | 4.0-8.0GHz | | H02F | Hughes | | 240 | RENTAL | II | | | | I) /16-MAY-2008 (BLK & ORANGE) |
| HUGHES 10W | 8-10.0GHz | | 108 | HUGHES | | 138 | RENTAL | II | 14- | , | | i) /17-MAY-2008 (BLK & ORANGE) |
| HP495A | 7.0-10.0GHz | | 495A | HP | | 4-00237 | 00086 | II | | Ou- | | RVICE (SPARE) |
| AUDIO AMP | AUDIO FREQ | | | RADIO SHAC | | 00438 | NONE | III | | | | NA |
| AUDIO AMP | AUDIO FREQ | MPA | A-200 | RADIO SHAC | K / | 08545 | 00862 | III | | | | NA |
| FIELD F | | | RANGE | | ΛN | MF | | SN | | ASSET | C/ | |
| Re | | | 1-1000MHz | | 4422 | HOLA | | 90369 | | 00031 | . ! | 23-MAR-2008 |
| GRE | | | 1-1000MHz | | 4422 | HOLA | | 97363 | | 00136 | . ! | 25-JUL-2007 |
| BL | | | 1-1000MHz | FI. | 4422 7006 | HOLA | | 95696 | | 01100 | | 18-APR-2008 |
| Reference Las | | - | 1-6000MHz | Star | Probe | Al | | 321700 | | 1252 | I | 23-FEB-2008 |
| MICROWAVE S | URVEY WEIER | . 4 | 2450MHz | | 1501 | HOLA | DAY | 0007546 | 4 | 1244 | | 09-JAN-2008 |
| SIGNAL GENE | RATORS | Rand | | MN | | MFR | | SN | | ASSET | С | AT CALIBRATION DUE |
| RED | | 0.09-200 | | HP8648E | | Agiler | | 3847U0 | | | | I 03-APR-2008 |
| BLUE | | 0.1-1000 | | HP8648/ | | Agiler | | 3426A00 | | | | I 23-AUG-2007 |
| GREEN | | 0.09-200 | | HP8648E | | Agiler | | 3623A0 | | | | I 16-OCT-2007 |
| Orang Browi | | 0.1-1000 0.01Hz-1 | | HP8648E HP33120. | | Agiler Agiler | | 3537A0° US3601 | | | | I 19-JUN-2008 I OUT OF SERVICE |
| WHITE | | 0.01Hz-1 | | HP33120 | | Agiler | | US3604 | | | | I 17-MAY-2008 |
| Brown-W | | 0.01Hz-1 | | HP33120 | | Agiler | | SG4001 | | | | I 10-NOV-2007 |
| BLUE-WH | | 0.1Hz-13 | | HP3312 | | Agiler | | 1432A0 | | | | I 21-MAR-2008 |
| SWEEPE | | 0.01-20.0 | | HP83752 | | Agiler | | 3610A0 | | | 1 | II 08-MAY-2008 |
| AM/FM STEREO | | 0.1-170 | | LG3236 | | LEADE | | 36873 | | 00959 | | I To be determined |
| IMPULSE GENE | ERATOR | 1-100 | Hz | CIG-25 | EL | ECTRO-M | ETRICS | 290 | | 00942 | | To be determined |
| BULK INJECTION | ON C LAMPS | RAN | NGE | MN | MFR | SN | ASSET | Сат | | | CALIBR | ATION DUE |
| GREEN (NE | | 0.01-3 | | 95236-1 | ETS | 50215 | 00118 | II | 19-J | UN-2008(BLUE) | | 2008(BLK) 29-JUN-2008(ORANGE) |
| GREEN (EL | | 0.15-8 | | 95236-1 | ETS | 50215 | 00118 | | | , , | | -2007(BLK) 28-JUN-2008(ORANGE) |
| RED (NÈB | | 0.01-3 | | 95236-1 | ETS | 34026 | 1020 | II | | | | 2008(BLK) 29-JUN-2008(ORANGE) |
| RED (EU | , | 0.15-8 | | 95236-1 | ETS | 34026 | 1020 | II | 04-N | | | 2008(BLK) 28-JUN-2008(ORANGE) |
| BLUE (RTCA/ | , | 2-450 | | 9142-1N | SOLAR | 063824 | 1237 | II | | С | | E BEFORE USE |
| RENTAL (RTC) | A/DO-160E) | 2–450 | JIVIHZ 9 | 9142-1N | SOLAR | 008508 | RENTAL | . II | | | 10-A | UG-2007 |
| ANSI | T1.315 | | | MFR | | A | SSET | CA | Т | | CALI | BRATION DUE |
| | ISE CART | | | C-S | | 1 | 285 | III | | CA | ALIBRATI | ION NOT REQUIRED |
| SBC TRAN | SIENT CART | | | C-S | | 1 | 286 | III | | Wave | SHAPE | VERIFIED BEFORE USE |
| | | | | | | | | | | | | |



| Oscillosco | OPES | MN | | MFR | ₹ | SN | ASSET | Сат | CALIBRATION DUE |
|--------------------------|----------------------------|------------------|------------|--------------|--------------|------------------|----------------|----------|--|
| EMC 100M | lHz | TDS 22 | 0 | TEKTRO | NIX | C036986 | 1166 | I | 25-APR-2008 |
| ESD REFERENC | E 1GHz | TDS 684 | В | TEKTRO | NIX | B011287 | RENTAL | I | 03-APR-2008 |
| 400MHz e*So | COPE | TDS 304 | 4B | TEKTRO | NIX | C010074 | 1275 | - 1 | 19-JUL-2008 |
| PRODUCT SAFETY | 100 MHz | TDS 34 | 0 | TEKTRO | XINC | B012357 | 00737 | I | 03-OCT-2007 |
| TELECOM 100 | | 54645 <i>A</i> | ١ | HP/AGII | LENT | US36320452 | 00103 | I | OUT OF SERVICE |
| REFERENCE 500MHz | z 10x Probe | P6139/ | ١ | TEKTRO | XINC | NA | 1280 | I | 19-JUL-2008 |
| REFERENCE 500MHz | z 10x Probe | P6139/ | ١ | TEKTRO | XINC | NA | 1281 | I | 19-JUL-2008 |
| 500MHz 10x F | | P6139/ | | TEKTRO | | NA | 1282 | I | 19-JUL-2008 |
| 500MHz 10x F | | P6139A | | TEKTRO | | NA | 1283 | I | 19-JUL-2008 |
| REFERENCE HV 10 | | P6015/ | | TEKTRO | | B056555 | 1277 | I | 20-JUL-2008 |
| REFERENCE HV 10 | 00x Probe | P6015/ | ١ | TEKTRO | ONIX | B056590 | 1278 | <u> </u> | 20-JUL-2008 |
| | | | | | | | | | |
| CDN NETWORKS | RANGE | MN | MFR | ASSE | | | CALIBRAT | | |
| BLUE | 0.10-100MHz | 20A M- | | 00800 | | | | | 28-JUN-2008 (ORANGE) |
| RED | 0.10-100MHz | 15A M-3 | | 00780 | | | | | 28-JUN-2008 (ORANGE) |
| YELLOW-BLACK | 0.10-100MHz | 15A M-3 | | 00784 | | | | | 28-JUN-2008 (ORANGE) |
| GREEN | 0.10-100MHz | 30A M-3 | | 00779 | | • | | | 28-JUN-2008 (ORANGE) |
| YELLOW | 0.10-100MHz | 30A M- | | 00804 | | | 007(BLUE AMP) | | ` , |
| BROWN | 0.10-100MHz | M-3 | C-S | 1169 | | | | | 28-JUN-2008 (ORANGE) |
| BROWN-WHITE | 0.10-100MHz | M-3 | C-S C-S | 1170 | | | | | 28-JUN-2008 (ORANGE) 28-JUN-2008 (ORANGE) |
| BROWN-BLACK | 0.10-100MHz | M-2 (DC | , | 1171 | | ` | , | ٠, | 28-JUN-2008 (ORANGE) |
| RED-BLACK GREEN-WHITE | 0.10-100MHz 0.10-100MHz | M-2 (DC | , | 1177 1259 | | , | , | ٠, | 28-JUN-2008 (ORANGE) |
| | | M-2 (DC 100Ω | , | | | , | , | , , | , , |
| YELLOW (RES) | 0.10-100MHz | RESISTOI 100Ω | | 00810 | | , | , | , , | 28-JUN-2008 (ORANGE) |
| GREEN (RES) | 0.10-100MHz | RESISTO | | 1172 | | 03-NOV-2007(BLUE | , | , , | 28-JUN-2008 (ORANGE) |
| ARTIFICIAL HAND | 510Ω / 220pF | CS-AH | C-S | 1262 | | | 04-JUN | | |
| ARTIFICIAL HAND | 510Ω / 220PF | CS-AH | C-S | 1263 | ll II | | 04-JUN | 1-2008 | |
| DMC Vol TMETER | o/Cuppent Cu | | MANI | N 4 | NED | SN | Acort | CAT | CALIDDATION DUE |
| RMS VOLTMETER | MULTIMETER | AMP | 79III | | NFR .UKE | 71700298 | ASSET 00769 | CAT I | CALIBRATION DUE 27-OCT-2007 |
| | MULTIMETER | | 179 | | .UKE .UKE | 89280616 | 1228 | iii | Not Cal'd to 17025 |
| TRUE-RMS MULTIN | | >E) | 179 | | .UKE .UKE | 83390024 | 00973 | iii | 22-MAR-2008 |
| | MULTIMETER | JE) | 177 | | .UKE | 83390024 | 00973 | i | 22-MAR-2008 |
| | TIMETER (TELECOM) | | 177 | | .UKE | 83430419 | 00975 | i | 22-MAR-2008 |
| | RENT PROBE | , | A622 | | RONIX | 08DD 6275Dv | 1246 | i | 31-JAN-2008 |
| 710720001 | | | 7.022 | | | 0022 02.02. | | | 0.0/2000 |
| Surge G | ENERATORS | | MN | | MFR | SN | ASSET | Сат | CALIBRATION DUE |
| | VEFORM MONITOR | ₹ | TWM- | 5 | CDI | 003982 | 00323 | II | 05-JUN-2008 |
| | RGE GENERATOR | | M5 | • | CDI | 003966 | 00324 | ii | CAL BEFORE USE |
| | COUPLING NWK | | 3CN | | CDI | 003455 | 00325 | ii | CAL BEFORE USE |
| | LUGIN MODULE | 1 | .2x50uS F | LUGIN | CDI | N/A | 00842 | ii | CAL BEFORE USE |
| | LUGIN MODULE | | 0x160uS F | | C-S | N/A | 00843 | ii | CAL BEFORE USE |
| 10x560uS P | LUGIN MODULE | | 0x560uS F | | C-S | N/A | 00841 | II | CAL BEFORE USE |
| | ROLLER MODULE | | PSURGE | | HAEFEL | | 00879 | Ш | 05-JUN-2008 |
| | OUPLING MODULE | | PCD 90 | | HAEFEL | | 00880 | II | 05-JUN-2008 |
| IMPULSI | E MODULE | | PIM 90 | 00 | HAEFEL | Y 149202 | 00881 | II | 05-JUN-2008 |
| HIGH VOLTAGE CA | P NWK 5KVDC, 18 | 8μF | CS-HV | CC | C-S | 01 | 00772 | II | 09-APR-2008 |
| | GENERATOR | , | N/A | | C-S | N/A | 88000 | II | 18-OCT-2007 |
| 2x10uS Sur | GE GENERATOR | | 2x10u | S | C-S | N/A | 00846 | II | CAL BEFORE USE |
| 10x700uS Su | RGE GENERATOR | | 10x700 | υS | C-S | N/A | 00847 | Ш | 06-JUN-2008 |
| 12 PAIR SURGE I | RESISTOR MODUL | | N/A | | C-S | N/A | 00768 | Ш | 18-OCT-2007 |
| | 500-M | Т | SS 500 M | 12 S2 | EMTES | T V0502100032 | 1155 | II | CAL BEFORE USE |
| | 500-M | | TSS500 I | | EMTES | T V0502100031 | 1156 | II | CAL BEFORE USE |
| | RGE GENERATOR | | NSG 20 | | TESEQ | | | I | 11-JUL-2008 |
| PNW 2050 1.2x50 | | | PNW 20 | | TESEQ | | | ļ | 11-JUL-2008 |
| CDN 133 3 PHASE | | ORK | CDN 1 | | TESEQ | | 1274 | I | 11-JUL-2008 |
| | JLA6150 | | MODULA6 | | TESEQ | | 1268 | <u> </u> | 11-JUL-2008 |
| | STEMC-2 | | 711-11 | | SCHAFFN | | | II. | 13-APR-2008 |
| SURGE CURI | RENT MONITOR | | CM-1- | L | ION PHYSIC | cs 896730 | 1276 | II | 26-Jul-2008 |
| 0,450,451,515 | | MANI | Mes | | | CNI | A co== | C+- | CALIDDATION DUT |
| 72kW Power Fault | | MN OV1 | MFR C-S | | | SN N/A | ASSET 00792 | CAT | CALIBRATION DUE N/A |
| POWER FAULT SIN | | OV1 OV2 | C-S C-S | | | N/A N/A | 00792 00116 | | N/A N/A |
| FUWER PAULI SI | WIULATUK | 0 7 2 | U-3 | | | IN/PA | 01100 | 111 | IN/A |



| Power/Noise Meters | MN | MFR | SN | ASSET | Сат | CALIBRATION DUE |
|-----------------------------------|----------------------|---------------|--------------|-------|-----|-----------------|
| Power Meter | 435B | HP | 2445A11012 | 00773 | | 03-APR-2008 |
| Power Meter | 437B | HP | 2912A01367 | 01099 | I | 03-APR-2008 |
| Power Sensor | 8481A | HP | 2702A61351 | 00774 | I | 04-APR-2008 |
| Power Meter | 4232A | BOONTON | 11000 | 1260 | I | 24-JUL-2008 |
| Power Sensor | 51013-4E | BOONTON | 34457 | 1261 | I | 24-JUL-2008 |
| PSOPHOMETER | 2429 | Bruel & Kjaer | 1237642 | 00585 | II | 23-FEB-2009 |
| TRANSMISSION LINE TESTER (DBRNC) | 185T | AMREL | 18507030010 | 1236 | II | 20-APR-2008 |
| TRANSMISSION LINE TESTER (DBRNC) | 185T | AMREL | 998658 | 00823 | Ш | 03-JUL-2008 |
| | | | | | | |
| DIPOLE TAPE MEASURES | MN | MFR | SN | ASSET | Сат | CALIBRATION DUE |
| 26FT TAPE #1 | 2338CME | LUFKIN | C3166-1 | 00776 | II | 22-MAR-2009 |
| 26FT TAPE #2 | 2338CME | LUFKIN | C3166-2 | 00777 | II | 22-MAR-2009 |
| | | | | | | |
| METEOROLOGICAL METERS | MN | MFR | SN | ASSET | Сат | CALIBRATION DUE |
| TEMP./HUMIDITY/ATM. PRESSURE GAUG | E 7400 PERCEPTION II | Davis | N/A | 00965 | II | 09-FEB-2009 |
| TEMPERATURE /HUMIDITY GAUGE | THG-912 | Huger | 4000562 | 00789 | I | 31-JAN-2009 |
| WEATHER CLOCK (PRESSURE ONLY) | BA928 | OREGON SCIENT | IFIC C3166-1 | 00831 | I | 08-FEB-2009 |
| | | | | | | |
| CONSUMABLES | SPEC. | MFR | STOCK/MN | ASSET | Сат | CALIBRATION DUE |
| NEBS CHEESECLOTH | 26-28M/KG | ED&D | ACC-01 | N/A | III | N/A |
| NEBS CARBON BLOCK 3- | MIL-GAP 1KV SURGE | RELIABLE | 3AB | N/A | Ш | N/A |

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.

Conditions Of Testing

[Bureau Veritas Consumer Products Services, Inc., a Massachusetts corporation], and/or its affiliates (collectively, the "Company") will conduct, at the request of the Submitter ("Client"), the tests specified on the submitted Test Request Form or equivalent in accordance with, and subject to, the following terms and conditions (collectively, "Conditions"):

- 1. All orders for tests are subject to acceptance by the Company, and no order will constitute a binding commitment of the Company unless and until such order is accepted by it, as evidenced by the issuance of a written report ("Test Report") by the Company. The Test Report is issued solely by the Company, is intended for the exclusive use of Client and shall not be published, used for advertising purposes, copied or replicated for distribution to any other person or entity or otherwise publicly disclosed without the prior written consent of the Company. By submitting a request for services to the Company, Client consents to the disclosure to accreditation bodies of those records of Client relevant to the accreditation body's assessment of the Company's competence and compliance with relevant accreditation criteria. The Company shall not be liable for any loss or damage whatsoever resulting from the failure of the Company to provide its services within any time period for completion estimated by the Company. If Client anticipates using the Test Report in any legal proceeding, arbitration, dispute resolution forum or other proceeding, it shall so notify the Company prior to submitting the Test Report in such proceeding. The Company has no obligation to provide a fact or expert witness at such proceeding unless the Company agrees in advance to do so for a separate and additional fee.
- 2. The Test Report will set forth the findings of the Company solely with respect to the test samples identified therein. Unless specifically and expressly indicated in the Test Report, the results set forth in such Test Report are not intended to be indicative or representative of the quality or characteristics of the lot from which a test sample is taken, and Client shall not rely upon the Test Report as being so indicative or representative of the lot or of the tested product in general. The Test Report will reflect the findings of the Company at the time of testing only, and the Company shall have no obligation to update the Test Report after its issuance. The Test Report will set forth the results of the tests performed by the Company based upon the written information provided to the Company. The Test Report will be based solely on the samples and written information submitted to the Company by Client, and the Company shall not be obligated to conduct any independent investigation or inquiry with respect thereto.
- 3. The Company may, in its sole discretion, destroy samples which have been furnished to the Company for testing and which have not been destroyed in the course of testing. The Company may delegate the performance of all or a portion of the services contemplated hereunder to an affiliate, agent or subcontractor of the Company, and Client consents to such delegation.
- 4. These Conditions and the Test Report represent the entire understanding of the parties hereto with respect to the subject matter hereof and of the Test Report, and no modification, variance or extrapolation with respect thereto shall be permitted without the prior written consent of the Company.
- 5. The names, service marks, trademarks and copyrights of the Company and its affiliates, including the names "BUREAU VERITAS," "BUREAU VERITAS CONSUMER PRODUCTS SERVICES," "BVCPS", "MTL", "ACTS", "MTL-ACTS" and CURTIS-STRAUS (collectively, the "Marks") are and shall remain the sole property of the Company or its affiliates and shall not be used by Client except solely to the extent that Client obtains the prior written approval of the Company and then only in the manner prescribed by the Company. Client shall not contest the validity of the Marks or take any action that might impair the value or goodwill associated with the Marks or the image or reputation of the Company or its affiliates.
- 6. Payment in full shall be due 30 days after the date of invoice. Interest shall be due on overdue amounts from the due date until paid at an interest rate of 1.5% per month or, if less, the maximum rate permitted by law. The Company reserves the right, at any time and from time to time, to revoke any credit extended to Client. Client shall reimburse the Company for any costs it incurs in collecting past due amounts, including court costs and fees and expenses of attorneys and collection agencies. The Test Report may not be used or relied upon by Client if and for so long as Client fails to pay when due any invoice issued by the Company or any affiliate of it to Client or any affiliate or subsidiary of Client together with interest and penalties, if any, accrued thereon.
- 7. The Company disclaims any and all responsibility or liability arising out of or in connection with e-mail transmissions of such information.
- 8. Client understands and agrees that the Company is neither an insurer nor a guarantor, that the Company does not take the place of Client or any designer, manufacturer, agent, buyer, distributor or transportation or shipping company, and that the Company disclaims all liability in such capacities. Client further understands that if it seeks assurance against loss or damage, it should obtain appropriate insurance.
- 9. Client agrees that the Company, by providing the services, does not take the place of Client nor any third party, nor does the Company release them from any of their obligations, nor does the Company otherwise assume, abridge, abrogate or undertake to discharge any duty of any third party to Client or any duty of Client or any third party to any other third party, and Client will not release any third party from its obligations and duties with respect to the tested goods.
- 10. Client shall, on a timely basis, (a) provide adequate instructions to the Company in order to enable the Company to perform properly its services, (b) provide, or cause Client's suppliers and contractors to provide, the Company with all documents necessary to enable the Company to perform its services, (c) furnish the Company with all relevant information regarding Client's intended use and purposes of the tested goods, (d) advise the Company of essential dates and deadlines relevant to the tested goods and (e) fully exercise all rights and remedies available to Client against third parties in respect of the tested goods.
- 11. The Company shall undertake due care and ordinary skill in the performance of its services to Client, and the Company shall accept responsibility only were such skill has not been exercised and, even in such event, only to the extent of the limitation of liability set forth herein.
- 12. If Client desires to assert a claim arising from or relating to (i) the performance, purported performance or non-performance of any services by the Company or (ii) the sale, resale, manufacture, distribution or use of any tested goods, it must submit that claim to the Company in a writing that sets forth with particularity the basis for such claim within 60 days from discovery of the potential claim and not more than six months after the date of issuance of the Test Report to Client. Client waives any and all such claims including, without limitation, claims that the Test Report is inaccurate, incomplete or misleading or that additional or different testing is required, unless and then only to the extent that Client submits a written claim to the Company within both such time periods.

 13. CLIENT SHALL, EXCEPT TO THE EXTENT OF COMPANY'S LIABILITY TO CLIENT HEREUNDER (WHICH IN NO EVENT SHALL EXCEED THE LIMITATION OF LIABILITY HEREIN), HOLD HARMLESS AND INDEMNIFY THE COMPANY, ITS

AFFILIATES AND THEIR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST ALL ACTUAL OR ALLEGED THIRD PARTY CLAIMS FOR LOSS, DAMAGE OR EXPENSE OF WHATSOEVER NATURE AND HOWSOEVER ARISING FROM OR RELATING TO (i) THE PERFORMANCE, PURPORTED PERFORMANCE OR NON-PERFORMANCE OF ANY SERVICES BY THE COMPANY OR (ii) THE SALE, RESALE, MANUFACTURE, DISTRIBUTION OR USE OF ANY TESTED GOODS.

- 14. EXCEPT AS MAY OTHERWISE BE EXPRESSLY AGREED TO IN WRITING BY THE COMPANY AND NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN OR IN ANY TEST REPORT, NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, IS MADE.
- 15. (A) IN NO EVENT WHATSOEVER SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, EXEMPLARY OR PUNITIVE DAMAGES IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE TEST REPORT OR THE SERVICES PROVIDED BY THE COMPANY HEREUNDER, INCLUDING WITHOUT LIMITATION LOSS OF OR DAMAGE TO PROPERTY; LOSS OF INCOME, PROFIT OR USE; OR ANY CLAIMS OR DEMANDS MADE AGAINST CLIENT OR ANY OTHER PERSON BY ANY THIRD PARTY IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE SERVICES PROVIDED BY THE COMPANY HEREUNDER.
- (B)NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN, AND IN RECOGNITION OF THE RELATIVE RISKS AND BENEFITS TO CLIENT AND THE COMPANY ASSOCIATED WITH THE TESTING SERVICES CONTEMPLATED HEREBY, THE RISKS HAVE BEEN ALLOCATED SUCH THAT UNDER NO CIRCUMSTANCES WHATSOEVER SHALL THE LIABILITY OF THE COMPANY TO CLIENT OR ANY THIRD PARTY IN RESPECT OF ANY CLAIM FOR LOSS, DAMAGE OR EXPENSE, OF WHATSOEVER NATURE OR MAGNITUDE, AND HOWSOEVER ARISING, EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF THE FEES PAID TO THE COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM OR U.S.\$10,000, WHICHEVER IS THE LESSER AMOUNT.
- 16. The Company shall not be liable for any loss or damage resulting from any delay or failure in performance of its obligations hereunder resulting directly or indirectly from any event of force majeure or any event outside the control of the Company. If any such event occurs, the Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client.
- 17. Company's services, including these Conditions, shall be governed by, and construed in accordance with, the local laws of the country where the Company performs the tests or, in the case of tests performed in the United States of America, the laws of Massachusetts without regard to conflicts of laws principles. If any aspect(s) of these Conditions is found to be illegal or unenforceable, the validity, legality and enforceability of all remaining aspects of these Conditions shall not in any way be affected or impaired thereby. Any proceeding related to the subject matter hereof shall be brought, if at all, in the courts of the country where the Company performs the tests or, in the case of tests performed in the United States of America, in the courts of Massachusetts. Client waives the right to interpose any counterclaim or setoffs of any nature in any litigation arising hereunder.

Rev.160009121(2)_#684340 v13CS

A2LA Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025-1999

CURTIS-STRAUS¹ 527 Great Road Littleton, MA 01460 Barry Quinlan Phone: 978-486-8880

Valid until: September 30, 2007

Certificate Number: 1627.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following Electromagnetic Compatibility (EMC), Telecommunications, and Product

Electromagnetic Compatibility (EMC)

Electromagnetic Compatibility (EMC)

Radiated emissions testing (electric and magnetic fields)*; Conducted emissions testing (voltage and current)*; Electrostatic Discharge testing*; Electrical Fast Transient testing*; Radiated Immunity testing*; Conducted Immunity testing*; Lightning Immunity testing*; Otlage Dips*, Interrupts and Voltage Variations testing*; Magnetic Immunity testing*; RF Power measurements*; Frequency Stability Measurements*; Longitudinal Induction measurements*; Harmonic emissions testing*; Light flicker testing*; Low frequency disturbance voltage testing*; Disturbance Power measurements*; Power Cross Overvoltage testing*;

| Test Type | Test Method(s) |
|----------------------------------|---|
| Emissions | |
| Radiated and Conducted Emissions | FCC 47 CFR Parts 15 & 18; C63.4; CISPR 22; EN55022; SABS CISPR 22; ASNZS CISPR 22; ASNZS 3548; Canada ICES- 003; CNS13438; KN 22 (RRL No. 2005-82; September 29, 2005); CISPR 11; EN 55011; SABS CISPR 11; ASNZS CISPR 11; ASNZS 2064; Canada ICES-001; CNS13803; CISPR 13; EN 55013; SABS CISPR 13; ASNZS CISPR 13; ASNZS 1053; CISPR 14-1; EN 55014-1; SABS CISPR 14; ASNZS CISPR 14; ASNZS 1044; CNS 13439; CISPR 15; EN 55015; GR-1089- CORE; CSA C108. 8-M1983; |
| Harmonics | EN 61000-3-2; AS/NZS 61000.3.2 |
| Flicker | EN 61000-3-3; AS/NZS 61000.3.3 |

1 Note: This accreditation covers testing performed at the laboratory listed above and the satellite facility located at 168 Ayer Rd, Littleton, MA 01460 and, for test types marked with an asterisk, at other sites as defined in "A2LA specific criteria for the accreditation of site testing and site calibration laboratories."

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| Immunity | RRL No. 2005-130 (December 27, 2005) |
|--|---|
| Electrostatic Discharge (ESD) | EN 61000-4-2; AS/NZS 61000.4.2; KN61000-4-2 |
| Radiated Immunity (RFI) | EN 61000-4-3, AS/NZS 61000.4.3; KN61000-4-3 |
| Electrical Fast Transient Bursts (EFT) | EN 61000-4-4; AS/NZS 61000.4.4; KN61000-4-4 |
| Surge | EN 61000-4-5, AS/NZS 61000.4.5; KN61000-4-5 |
| Conducted Immunity | EN 61000-4-6, AS/NZS 61000.4.6; KN61000-4-6 |
| Magnetic Immunity | EN 61000-4-8; AS/NZS 61000.4.8; KN61000-4-8 |
| Voltage Dips and Interrupts | EN 61000-4-11; KN61000-4-11 |
| Low Fraguency Conducted Dicturbances | EN 61000 2 2 |

Family Product or Industry Specific Specifications GR-1089-CORE; GR-78-CORE (ESD)

| including emissions and/or immunity | GRY059-C-UR. (2RV-36-CMC 1317) GRY050-C-1; EN 50081-2; EN 50082-2; EN 50082-1; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-4; EN 50091-2; EN 55024; CISPR 24 EN 55103-1; EN 55103-2; EN 61326; EN 61547; EN 50130-4; EN 50081-2; EN 60601-2-32; EN 60601-2-38; EN 60601-2-34; EN 60001-2-32; EN 60601-2-38; EN 60601-2-34; EN 5000-3; EN 61800-3; EN 55020; CISPR 20; EN 60555 Part 2; EN 60555 Part 3; ETS 300 386-1; EN 300 386-2; EN 300 386, ETS 300 132-1; ETS 300 132-2; EN 6069-2-1; AS/NZS 3200.1.2; CNS 13783-1; ETR 283; C62-1; AS/NZS 3200.1.2; CNS 13783-1; ETR |
|---------------------------------------|--|
| Radiocommunications | |
| EU R&TTE Radio Standards; | EN 300 220-1; EN 300 220-3; EN 300 330-1; EN 300 330-2; EN 300 440-1; EN 300 440-2; EN 300 328; EN 300 385; EN 301 893 |
| EU R&TTE EMC Standards | EN 300 339; EN 301 489-01; EN 301 489-03; EN 301 489-17 |
| Canada Radio Standards | RSS-102; RSS-117; RSS-118; RSS-119; RSS-123; RSS-125; RSS-128; RSS-129; RSS-130; RSS-131; RSS-132; RSS-133; RSS-134; RSS-135; RSS-136; RSS-137; RSS-138; RSS-141; RSS-142; RSS-170; RSS-181; RSS-187; RSS-187; RSS-188; RSS-191; RSS-181; RSS-193; RSS-195; RSS-210; RSS-212; RSS-213; RSS-215; RSS-243; RSS-GEN; RSS-310; GL-36; |
| Australia/New Zealand Radio Standards | AS/NZS 4268; AS/NZS 4771; RFS29; Radiocommunications (Data Transmission Equipment Using Spread Spectrum Modulation Techniques); Radiocommunications (Spread Spectrum Devices); Radiocommunications (Short Range Devices); Radiocommunications (Low Interference Potential Devices); |

(A2LA Cert. No. 1627.01) 3/27/06

| Other Ra | dio Standards | RTTE 01 (DGT-Taiwan); | |
|----------|---------------------------------------|-----------------------|--|
| ECC Stor | ndards and Test methods Support TO | D Status | |
| | pe A – Unlicensed Radio Frequency De | | |
| A1 | 1. 47 CFR Parts 11, 15 and 18 | | |
| | 2. FCC MP-5, | | |
| | 3. ANSI C63.4-2003, | | |
| A2 | 1. 47 CFR Part 15, | | |
| | ANSI C63.4-2003, | | |
| A3 | 1. 47 CFR Part 15, | | |
| | ANSI C63.17-1998, | | |
| | 3. ANSI C63.4-2003, | | |
| A4 | 1. 47 CFR Part 15, | | |
| | ANSI C63.4-2003, | | |
| FCC Scop | oe B – Licensed Radio Service Equipme | nt | |
| B1 | 1. 47 CFR Parts 2, 22, 24, 25, a | nd 27 | |
| | 2. ANSI/TIA-603-C (2004) | | |
| B2 | 1. 47 CFR Parts 2, 22, 74, 90, 9 | 5, and 97 | |
| | 2. ANSI/TIA-603-C (2004) | | |
| B3 | 1. 47 CFR Parts 2, 80, and 87 | | |
| | 2. ANSI/TIA-603-C (2004) | | |
| B4 | 1. 47 CFR Parts 2, 21, 74, and | 101 | |
| | 2. ANSI/TIA-603-C (2004) | | |

| Country Specific Standards and Other | |
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| ITU EMC Standards | K.20; K.21; K.41; K.44 |
| Swedish EMC Standards | BAKOM 3336.3 |
| South African EMC Standards other then CISPR equivalents | SABS 1718-1; SANS 21 I/SABS CISPR 11; SANS 224/SABS CISPR 24; SANS 213/SABS CISPR 13; SANS 2200; SANS214-I/SABS CISPR 14-1; SANS214-SZABS CISPR 14-2; SANS 215/SABS CISPR 15; SANS 215/SABS CISPR 22 |
| Hong Kong EMC Standards | HKTA 1006; HKTA 1007; HKTA 1008; HKTA 1010; HKTA 1015; HKTA 1026; HKTA 1035; HKTA 1039; HKTA 1041; HKTA 1042; HKTA 1045 |
| Singapore EMC Standards | IDA TS SRD; IDA TS EMC |
| Japanese VCCI Standards | VCCI V-3, VCCI V-4 |

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HKTA 2014

Telecommunications
Telecommunications Registration; General test methods; Lightning surge*; Drop testing*; Balance testing*; Signal power (metallic and longitudinal)*; Frequency measurements*; Pulse templates*; Leakage testing*; Impedance testing*; Hearing Aid Compatibility testing (excluding volume control)*; Protocol analysis* and Jitter

| om | Standards | Ti |
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North American standards FCC 47 CFR Part 68 Telephone Connection of terminal equipment to the telephone Connection of terminal equipment to the telephone network. Analog and Digital Equipment. TCB Scope C1. Specification for terminal equipment, terminal systems, Network protection devices, connection arrangements and hearing aids compatibility.

Bulletin Part 68 Rationale and Measurement Guidelines Terminal Equipment CS-03 Issue 9 TIA/EIA TSB31-B 1998 (Feb 1998) TIA-968-A, A1, A2, A3 Telecommunications Telephone Terminal

Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone Network Technical Requirements for SHDSL, HDSL2, HDSL4 Digital Subscriber Line Terminal Equipment T1.TRQ.6-2001 to Prevent Harm to the Telephone Network Industry AS/ACIF S002-2001

Analogue interworking and non-interference requirements for Customer Equipment for connection to the Public Switched Telephone Network Requirements for Customer Equipment for AS/ACIF S016-2001 Requirements for Customer Equipment for connection to hierarchical digital interfaces Requirements for ISDN Basic Access Interface Requirements for ISDN Primary Rate Access Interface Requirements for Customer Equipment for Connection to a Metallic Local Loop Interface of a AS/ACIE S031-2001 AS/ACIF S031-2001 AS/ACIF S038-2001 AS/ACIF S043-2001

Telecommunications Network -Part 1: General Part 2: Broadband

Part 3: DC, Low Frequency AC and Voice band International standards ITU-T G.703 Physical/electrical characteristics of hierarchical

Digital interfaces

Hong Kong standards HKTA 2011 Network Connection Specification for Connection of Customer Premises Equipment (CPE) to Direct Exchange Lines (DEL) of the Public Switched Telephone Network

(PSTN) in Hong Kong Network Connection Specification for Connection of Network Connection Specification for Connection of Customer Premises Equipment (CPE) to the Public Telecommunications Network (PTN) in Hong Kong using ISDN Basic Rate Access (BRA) based on ITU-T

Recommendations

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| Telecom Standards | | | |
|--|--|---|--|
| | <u>Title</u> | European standards (cont'd) | |
| HKTA 2028 | Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased | TBR 21: 1998 | Terminal Equipment (TE); Attachment requirements For pan-European approval for connection to the |
| | circuits at data rate of 1544 kbit/s | | Analogue Public Switched Telephone Networks |
| HKTA 2029 | Network connection specification for connection of | | (PSTNs) of TE (excluding TE supporting the voice |
| | CPE to the PTNs in Hong Kong using digital leased | | telephony service) in which network addressing, if |
| HKTA 2030 | circuits at data rate of 2048 kbit/s Network Connection Specification for Connection of | | provided, is by means of Dual Tone Multi Frequency (DTMF) signaling |
| HKTA 2030 | Network Connection Specification for Connection of Customer Premises Equipment (CPE) to the Public | TBR 24: 1997 | (DTMF) signaling Business TeleCommunications (BTC); 34 Mbit/s |
| | Telecommunications Network (PTN) in Hong Kong using | 121(2):1777 | Digital Unstructured and structured leased lines |
| | Digital Leased Circuits at nx64 kbit/s | | (D34U and D34S); Attachment requirements for |
| HKTA 2031 | Network Connection Specification for Connection of | | Terminal equipment interface |
| | Customer Premises Equipment (CPE) to the Public | Taiwan standards (DGT) | A |
| | Telecommunications Network (PTN) in Hong Kong using Digital Leased Circuits below 64 kbit/s | ADSL01 | Asymmetric Digital Subscriber Line Terminal Equipment : POTS Splitter Technical Specifications |
| HKTA 2032 | Network Connection Specification for Connection of | ID0002 | DS1 Equipment Type Approval Guidelines |
| | Customer Premises Equipment (CPE) to the Public | IS6100 | ISDN Terminal Equipment Technical Specifications |
| | Telecommunications Networks in Hong Kong using | PSTN01 (non-voice only) | Technical Specifications for Terminal Equipment for |
| | Asymmetric Digital Subscriber Lines (ADSL) based on ITU-T | N 7 1 1 1 1 1 | Connection to Public Switched Telephone Network |
| HKTA 2033 | Recommendation G.992.1 Network Connection Specification for Connection of | New Zealand standards PTC 200 (non-voice only) | Requirements for Connection of Customer Equipment to |
| | Customer Premises Equipment (CPE) to Fixed | 1 To 200 (non voice only) | Analogue Lines |
| | Telecommunications Networks in Hong Kong using | PTC 217 | Requirements for Bandwidth Management Devices |
| | Splitterless Asymmetric Digital Subscriber Lines (ADSL) | TNA 117 | Telecom 2048 kbit/s Standard Network Interface |
| | based on ITU-T Recommendation G.992.2 | PTC 270 | Interim arrangements for ADSL CPE |
| European standards FBR 1: 1995 | Attachment requirements for terminal equipment to | Singapore Standards | |
| IBK 1. 1995 | Be connected to circuit switched data networks and | IDA TS ADSL | Type Approval Specification for Asymmetric Digital |
| | Leased circuits using a CCITT Recommendation | IDA 13 ADSE | Subscriber Line (Full-rate ADSL) Modems |
| | X.21 interface, or at an interface physically, | IDA TS ADSL 2 | Type Approval Specification for Asymmetric Digital |
| | functionally and electrically compatible with CCITT | I TO A TOTAL COLOR | Subscriber Line Splitterless (G-Lite) Modems |
| | Recommendation X.21 but operating at any data | IDA TS DLCN 1 | Type Approval Specification for Digital Interfaces based of hierarchical bit rates of 2048 kbit/s, 34 368 kbit/s and 139 |
| ГВR 2: 1997 | signaling rate up to, and including, 1 984 kbit/s Attachment requirements for Data Terminal | | hierarchical bit rates of 2048 kbit/s, 34 368 kbit/s and 139 kbit/s |
| IDK 2. 199/ | Equipment (DTE) to connect to Packet Switched | IDA TS ISDN 1 | Type Approval Specification for connection of Terminal |
| | Public Data Networks (PSPDNs) for CCITT | | Equipment to Integrated Services Digital Network (ISDN) |
| | Recommendation X.25 interfaces at data signaling | | Basic Access |
| | rates up to 1 920 kbit/s utilizing interfaces derived | IDA TS ISDN 2 | Type Approval Specification for connection of Terminal |
| EDD 2 1005 - A 2: 1005 | from CCITT Recommendations X.21 and X.21 bit | | Equipment to Integrated Services Digital Network (ISDN) |
| ΓBR 3: 1995 + Amdt : 1997 | Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to | IDA TS PSTN (non-voice only) | Primary Rate Access (PRA) Type Approval Specification for connection of Terminal |
| | connect to an ISDN using ISDN basic access | IDA 13 P31N (non-voice only) | Equipment to Public Switched Telephone Network (PSTN |
| ΓBR 4: 1995 + Amdt : 1997 | Integrated Services Digital Network (ISDN); | South Africa standards | Equipment to Fubile Switched Telephone Telephone (1511) |
| | Attachment requirements for terminal equipment to | TE-001 (non-voice only) | Standard for Telecommunication Line Terminal Equipmen |
| | connect to an ISDN using ISDN primary rate access | | (TLTE) for Connection to the Public Switched Telephone |
| TBR 012: 1993 + Amdt : 1996 | Business Telecommunications (BT); Open Network Provision (ONP) technical requirements; 2 048 kbit/s | | Network (PSTN) |
| | digital unstructured leased line (D2048U) Attachment | | |
| | requirements for terminal equipment | | |
| TBR 013: 1996 | Business TeleCommunications (BTC); 2 048 kbit/s | | |
| | | | |
| | digital structured leased lines (D2048S); Attachment | | |
| (A2LA Cert. No. 1627.01) 3/27/06 | requirements for terminal equipment interface | (A2LA Cert No. 1627.01) 3/27/06 | Page 6 of 10 |
| Product Safety General test methods: Power input*, Permanence of marking*, Acce | requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard | (A2LA Cert. No. 1627.01) 3/27/06 Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 | Page 6 of 10 Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical |
| Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strengh*, Im- | requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, puble*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm | Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AMZ – 1997 & AM 12 – 1997) | Title Classification, requirements and user's guide. |
| Product Safety General test methods: Power input*, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im lame*, Needle flame*, Hot flaming oil*, Loc | requirements for terminal equipment interface Page 5 of 10 Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge /voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding BondEarthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, | Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 | Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances |
| Product Safety General test methods: Ower inputs, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition TIPs, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im lame*, Needle flame*, Hot flaming oil*, Loci Torque*, Insulation resistance*, Sound level*, Transformer short/Soverloads*, Rain test*, We | requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, | Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AMZ – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CANCSA E335-1 1994 | Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements |
| Product Safety General test methods: Ower inputs, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humdity condition Tlj*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*. Electric strength*, Im lame*, Needle flame*, Hot flaming oil*, Loci forque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, W; "unctionality*, Protectric impedance abnorm | requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge /voltage ing*, Creepage /Clearance /Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi- | Product Safety Standards IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AMZ – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 | Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General |
| Product Safety ieneral test methods: ower inputs, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humdity condition Tlf)*, Limited power measurement*, Ground Applied force*, Sueel sphere impact*, Mold st Component abnormal*, Electric strength*, Im lame*, Needle flame*, Hot flaming oil*, Loci Orque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, W; "unctionality*, Protective impedance abnorm | requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, | Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 41997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 | Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements |
| Product Safety inerral test methods: ower inputs, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition TIJ*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Int lame*, Needle flame*, Hot flaming oil*, Loc forque*, Insulation resistance*, Sound level*, transformer shorts/oevloads*, Rain test*, W; "unctionality*, Protective impedance abnorm upply abnormal*, Cooling abnormal*, Heatin | requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge /voltage ing*, Creepage /Clearance /Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi- | Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AMZ – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CANCSA E335-1 1994 | Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for |
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| Product Safety General test methods: Power inputs, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, imitation*, Rins gianal*, Humidity condition TIJ*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im lame*, Needle flame*, Hot flaming oil*, Loc Forques*, Insulation resistance*, Sound level* Fransformer shorts/overloads*, Rain test*, Wi "unctionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatin Product Safety Standards JL 60950 1090 EC 60950 1090 EC 60950 1090 EC 60950-1 2001 JL 60950-1 2001 JL 60950-1 2001 JL 60950-1 2003 SSA C22.2 No. 60950-00 SSA C22.2 No. 60950-00 SSA C22.2 No. 60950-103 EC 61010-1 1993 EN 61010-1 1993, 2001 | requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. | Product Safety Standards IEC 60825-1 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040-10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) IEC 60335-1 2001 UL 60335-1 1998 CANCSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010 -1: 2004 UL 60601-1: 2004 | Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety |
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| Product Safety ieneral test methods: Ower inputs, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition Tli*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im Jame*, Needle flame*, Hot flaming oil*, Loci Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa "unctionality*, Protective impedance abnorm upply abnormal*, Cooling abnormal*, Heatin Product Safety Standards JL 60950 2000 EC 60950 1200 EC 60950 1200 EC 60950 12001 JL 60950-1 2001 JL 60950-1 2001 SSA C22.2 No. 60950-103 EC 61010-1 1993 EN 61010-1 1993, 2001 EC 61010-1 1993, 2001 EC 61010-1 1903, 2001 EC 61010-1 1903, 2001 EC 61010-1 1909, Including AM 2) CAN/CSA 1010-1 1999 (Including AM 2) | ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge /voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pubse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11d mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 12d capacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements. | Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60355-1 1995 (Including AMZ – 1997 & AM 12 – 1997) EN 6035-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2004 UL 60601-1: 2003 | Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology Equipment – Safety – Part1: General requirements Information Technology Equipment – Safety – General requirements Information Technology Equipment – Safety – General requirements Information Technology Equipment, Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Equipment - Part 1: General Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems |
| Product Safety ieneral test methods: Ower inputs, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition Tli*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im Jame*, Needle flame*, Hot flaming oil*, Loci Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa "unctionality*, Protective impedance abnorm upply abnormal*, Cooling abnormal*, Heatin Product Safety Standards JL 60950 2000 EC 60950 1200 EC 60950 1200 EC 60950 12001 JL 60950-1 2001 JL 60950-1 2001 SSA C22.2 No. 60950-103 EC 61010-1 1993 EN 61010-1 1993, 2001 EC 61010-1 1993, 2001 EC 61010-1 1903, 2001 EC 61010-1 1903, 2001 EC 61010-1 1909, Including AM 2) CAN/CSA 1010-1 1999 (Including AM 2) | ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11th, Capacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. | Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60355-1 1995 (Including AMZ – 1997 & AM 12 – 1997) EN 6035-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2004 UL 60601-1: 2003 | Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems |
| Product Safety ieneral test methods: Ower input*, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, imitation*, Rins gianal*, Humidity condition TIJ*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, In lame*, Needle flame*, Hot flaming oil*, Loc Forque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, Wi unctionality*, Protective impedance abnorm upply abnormal*, Cooling abnormal*, Heatin Product Safety Standards. Specific Product Safety Standards II. 60950 2000 EC 60950 1999 EC 60950-1 2001 EC 60950-1 2001 EC 60950-1 2003 ESA C22.2 No. 60950-00 ESA C22.2 No. 60950-103 EC 61010-1 1993 EN 61010-1 1993, 2001 EC 61010-1 1993 EN 61010-1 1999 (Including AM 2) EC 60601-1 1995 EC 60601-1 1995 EN 60601-1 1995 (Including AM 2) | ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge/voltage ing*, Creepage/Clearance/Distance tru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, ill mount*, Laser radiation (excluding x-ray)*, Voltage surge*, il*, Capacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements. Medical electrical equipment. Part 1: General requirements for safety. Medical electrical equipment | Product Safety Standards IEC 60825-1 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040-10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) IEN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950-1: 2003 UL 61010 -1: 2004 UL 60601-1: 2000 EN 60601-1-1: 2000 EN 60601-1-1: 2000 | Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment – Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment – Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment – Part 1: General Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus – Safety Requirements |
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| vironmental Simulation | | | Note 1. For standards or methods listed on the scope of accreditation without a | a revision date, laboratories |
|-----------------------------------|--------------------------|----------------------------------|---|-------------------------------|
| Test Technology | Test Standard | Supporting Standards | expected to be competent in the use of the current version within one year of t | he date of publication of the |
| Accessibility* | IEC 60529 | IP-0x thru IP-6x | standard test method or upon the date specified by the standard test method or | iginator when the originator |
| Acoustic Noise* | GR-63-CORE Sec 4.6 | | implementation authority. When a superseded standard or method is required | |
| Airborne Contaminants | GR-63-CORE Sec 4.5 | MFG & Hygroscopic Dust | | |
| Altitude | GR-63-CORE Sec 4.1.3 | | will include the superseded date/version. For those that support the TCB/CB s | |
| Cold Start* | ETS 300 019 | IEC 60068-2-1 | as a certifier on behalf of the FCC or IC the expectation is currency within 30 | days of Federal Register |
| Drip | IEC 60529 | IP-x1 & IP-x2 | publication of changes for FCC and 30 days after IC website update. This not | e shall not be construed as |
| Drops* | ETS 300 019 | IEC 60068-2-32 | Accreditation Body implication to adopt a more current standard than is require | |
| • | GR-63-CORE Sec 4.3 | | | red in a regulation of code (|
| Dust | IEC 60529 | IP-5x & IP-6x | the legal requirement) which is adopted by the lab under their responsibility. | |
| Firearms Resistance Testing | GR-487 | n sawn sa | | |
| Fire Resistance | ANSI.T1.319 | | * On-site test service is available for this technology, test, or method. | |
| 1 IIC ICCONTUNCC | GR-63-CORE Sec 4.2 | Fire & Needle Flame | - | |
| Heat Dissipation* | GR-63-CORE Sec 4.1.4 | The & recule Finne | | |
| Illumination | GR-63-CORE Sec 4.7 | | | |
| Operational Temperature & | GK-03-COKE Sec 4.7 | | | |
| Humidity (OpTH)* | ETS 300 019 | IEC 60068-2-1 | | |
| Humany (Op111) | E13 300 019 | IEC 60068-2-1 IEC 60068-2-2 | | |
| | | IEC 60068-2-2 IEC 60068-2-14 | | |
| | | IEC 60068-2-14 IEC 60068-2-56 | | |
| | GR-63-CORE Sec 4.1.2 | IEC 00008-2-50 | | |
| S. b. F 8 S | | | | |
| Salt Fog & Spray | ASTM B117 | | | |
| Spatial* | GR-63-CORE Sec 2.0 & 3.0 | TD 20 TD 4 | | |
| Spraying-Splashing | IEC 60529 | IP-x3 & IP-x4 | | |
| Storage (Temperature & Humidity)* | ETS 300 019 | IEC 60068-2-1 | | |
| | | IEC 60068-2-2 | | |
| | | IEC 60068-2-14 | | |
| | | IEC 60068-2-30 | | |
| | | IEC 60068-2-56 | | |
| | GR-63-CORE Sec 4.1.1 | | | |
| Vibration | ETS 300 019 | IEC 60068-2-6 | | |
| | | IEC 60068-2-27 | | |
| | | IEC 60068-2-29 | | |
| | | IEC 60068-2-32 | | |
| | | IEC 60068-2-57 | | |
| | | IEC 60068-2-64 | | |
| | | Earthquake, Office & | | |
| | GR-63-CORE Sec 4.4 | Transportation | | |
| Water Immersion | IEC 60529 | IP-x7 & IP-x8 | | |
| Water Jet | IEC 60529 | IP-x5 & IP-x6 | | |
| | | | | |
| LA Cert. No. 1627.01) 3/27/06 | | Page 9 of 10 | (A2LA Cert. No. 1627.01) 3/27/06 | Page 10 |