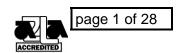
Curtis-Straus Test Report

Report No EG0814-1 Client Summit Data Communications, Inc. Address 526 South Main Street Suite 411 Akron, OH 44311 Phone 330-434-7929 Items tested SDC-CFG10G FCC ID TWG-SDCCF10G FRN 00144593390 IC 6616A-SDCF10G Standards CFR 47 FCC 15.247 & RSS 210 Issue 6 Class II permissive change **Test Dates** July 31st through August 3rd of 2006 Results As detailed within this report Prepared by Authorized by Michael Buchholz - EMC Manager Issue Date 8/16/06 This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' Conditions of Issue section on page 24 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.



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Form Final Report REV 6-16-06 (DW)

Summary

This report is an application in pursuit of a class II permissive change for the radio module MN: SDC-CF10G with FCC ID: TWG-SDCCF10G and IC ID: 6616A-SDCF10G operating in the frequency band of 2400MHz – 2483.5MHz under FCC part 15c section 15.247 and RSS-210 Issue 6.

A Class II permissive change is requested because Summit Data Communications wants to add two new antennas to this previously approved radio.

A brief description of antennas is given below. Detailed information regarding antennas is available in exhibits provided with the report.

| Antenna | Model Number | Frequency | Gain |
|----------------|---------------|-----------|-------|
| Manufacturer | | (GHz) | (dBi) |
| Radiall/Larsen | R.380.500.311 | 2.4 – 2.5 | 2 |
| Mobil Mark | p/n: 1000159 | 2.4 – 2.5 | 5 |

The EUT was tested on 80 cm non-conductive foam table according to the procedures specified in ANSI C63.4 (2003). The radio was tested with modulation on and peak and average readings were taken. If a peak reading met the average limit, then the average reading was not taken. Emissions from the EUT antennas were maximized around their axis. Spurious emissions in the restricted bands were checked for both antennas.

Furthermore band edges at the restricted bands were checked.

| Frequency range investigated: | 30MHz – 25GHz |
|-------------------------------|---------------|
| | |

| Measurement Distance: | | | | | | | | | | | |
|-----------------------|--------------|-------------------|--|--|--|--|--|--|--|--|--|
| Frequency (MHz) | Distance (m) | Comments | | | | | | | | | |
| 30MHz – 18GHz | 3m | Radiated Spurious | | | | | | | | | |
| | | Measurements | | | | | | | | | |
| 18GHz – 25GHz | 0.1m | Radiated Spurious | | | | | | | | | |

Release Control Record

Issue No. Reason for change

1 Original Release

Date Issued August 15, 2006



Summery of Respective Antenna Testing

| Frequency | | Antenna Type | | | | | | | | | |
|---------------|--------|--------------|--------|-----------|--|--|--|--|--|--|--|
| (MHz) | | 5dBi | 2dBi | | | | | | | | |
| 30 – 1000 | | X | | | | | | | | | |
| 1000 – 18000 | | Х | Х | | | | | | | | |
| 18000 – 25000 | | Х | | | | | | | | | |
| Band Edge | 2.4GHz | 2.4835GHz | 2.4GHz | 2.4835GHz | | | | | | | |
| 802.11b | Х | Х | Х | Х | | | | | | | |
| 802.11a | Х | Х | X X | | | | | | | | |

We found that two new antennas can be used with the radio modules given restrictions are met for power settings as detailed on page 6.

The test sample was received in good condition.

Product Tested - Configuration Documentation

| EUT | MN | SN | | | |
|-------------------|-------------------|--------------------|--|--|--|
| | SDC-CF10G | CF10G0604290001131 | | | |
| Cable | Туре | Length/Shielded | | | |
| | UFL to SMA | 3 m; shielded | | | |
| | UFL antenna cable | 0.1 m; shielded | | | |
| Support Equipment | HP iPAQ | None | | | |
| | CFextender | None | | | |

Restrictions Required for Compliance

| Antenna Type | 802.11b | 8021.g | | | | |
|--------------|-----------------------------|-----------------------------|--|--|--|--|
| 5dBi | None | CH1 power set at 60% level | | | | |
| | | CH11 power set at 60% level | | | | |
| 2dBi | CH1 power set at 75% level | CH1 power set at 50% level | | | | |
| | CH11 power set at 75% level | CH11 power set at 50% level | | | | |

Test Results

802.11b

| able 1 | | | | | | | | | | | | |
|--------------|-----------------------|-------------|------------|-----------|------------------|------------|---------|-----------------------|----------|-------------|-------------|---------|
| adiated | l Emissi | ons Tab | ole | | | | | | | | Curtis-Str | aus LL |
| Date: | 01-Aug-06 | | | Company: | Summit Da | ata Commun | ication | | | ٧ | Vork Order: | G0814 |
| Engineer: | Mairaj Hussa | in | 1 | EUT Desc: | SDC-CF1C |)G | | | | | | |
| | Freque | ency Range: | 30 - 1000N | ЛHz | | | | Me | asuremen | t Distance: | 3 m | |
| Notes: | 5dBi antenna 1mbps | 802.11b | | | 120KHz 300KHz | Detector: | QP | EUT Max Freq: 2460MHz | | | | |
| Antenna | | | Preamp | Antenna | Cable | Adjusted | | | | | FCC Class E | 3 |
| Polarization | Frequency | Reading | Factor | Factor | Factor | Reading | | | | Limit | Margin | Resu |
| (H / V) | (MHz) | (dBµV) | (dB) | (dB/m) | (dB) | (dBµV/m) | | | | (dBµV/m) | (dB) | (Pass/F |
| v | 37.58 | 29.0 | 26.2 | 16.5 | 8.0 | 20.1 | | | | 40.0 | -19.9 | Pass |
| V | 74.16 | 51.3 | 26.2 | 8.7 | 1.2 | 35.0 | | | | 40.0 | -5.0 | Pass |
| V | 116.8 | 35.0 | 26.2 | 13.4 | 1.5 | 23.7 | | | | 43.5 | -19.8 | Pass |
| V | 131.0 | 39.0 | 26.2 | 14.6 | 1.6 | 29.0 | | | | 43.5 | -14.5 | Pass |
| V | 149.95 | 33.0 | 26.1 | 13.0 | 1.7 | 21.6 | | | | 43.5 | -21.9 | Pass |
| V | 156.86 | 40.6 | 26.1 | 12.8 | 1.8 | 29.1 | | | | 43.5 | -14.4 | Pass |
| V | 163.96 | 44.8 | 26.1 | 12.6 | 1.7 | 33.0 | | | | 43.5 | -10.5 | Pass |
| V | 165.66 | 47.2 | 26.1 | 12.5 | 1.7 | 35.3 | | | | 43.5 | -8.2 | Pass |
| ٧ | 168.1 | 51.2 | 26.2 | 12.4 | 1.8 | 39.2 | | | | 43.5 | -4.3 | Pass |
| V | 171.22 | 50.6 | 26.2 | 12.1 | 1.8 | 38.3 | | | | 43.5 | -5.2 | Pas |
| h | 247.43 | 42.4 | 26.1 | 12.3 | 2.1 | 30.7 | | | | 46.0 | -15.3 | Pass |
| h | 328.9 | 42.5 | 26.1 | 14.6 | 2.5 | 33.5 | | | | 46.0 | -12.5 | Pass |
| h | 405.96 | 33.0 | 26.0 | 16.2 | 3.0 | 26.2 | | | | 46.0 | -19.8 | Pass |

Table 2

| Spurious | and Band | d Edge | | | | | | | | | Curtis-St | raus LLC | | |
|-----------------|----------------------------|----------|-------------|-----------|--------|----------|-------------|--------|---------------------------|-----------|-------------------|-------------|--|--|
| Date: | 31-Jul-06 | | | Company: | Summit | Data Com | munications | | | ٧ | Vork Order: | G0814 | | |
| Engineer: | Mairaj Hussain | | | EUT Desc: | SDC-CF | 7/10G | | | | | | | | |
| | Frequency Range: 1 - 18GHz | | | | | | | | Measurement Distance: 3 m | | | | | |
| Notes: | 802.11b | RBW: | 1MHz | | | | | | EU | Max Freq: | Max Freq: 2460MHz | | | |
| | 5dBi Antenna | VBW: | 1MHz & 30Hz | | | | | | | - | | | | |
| Antenna | | | Preamp | Antenna | Cable | Adjusted | | | | | FCC Class I | 3 | | |
| Polarization | Frequency | Reading | Factor | Factor | Factor | Reading | Limit | Margin | Result | Limit | Margin | Result | | |
| (H / V) | (MHz) | (dBµV) | (dB) | (dB/m) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | (Pass/Fail) | (dBµV/m) | (dB) | (Pass/Fail) | | |
| Vpk | 2409.0 | 116.8 | 39.3 | 29.8 | 2.5 | 109.8 | | | | | | | | |
| Vavg | 2409.0 | 114.1 | 39.3 | 29.8 | 2.5 | 107.1 | | | | | | | | |
| 300KHZ RBW | | | | | | | | | | | | | | |
| Vpk | 2409.0 | 114.0 | 39.3 | 29.8 | 2.5 | 107.0 | | | | | | | | |
| Vbe | 2390.0 | 60.6 | 39.4 | 29.7 | 2.5 | 53.4 | | | | | | | | |
| Delta: | | 53.4 | | | | | | | | | | | | |
| PK @ BE | 2390.0 | 63.4 | 39.4 | 29.7 | 2.5 | 56.2 | | | | 74.0 | -17.8 | Pass | | |
| Avg @ BE | 2390.0 | 60.7 | 39.4 | 29.7 | 2.5 | 53.5 | | | | 54.0 | -0.5 | Pass | | |
| Vpk | 4820.0 | 54.0 | 39.3 | 35.3 | 3.8 | 53.8 | | | | 74.0 | -20.2 | Pass | | |
| Vavg | 4820.0 | 51.6 | 39.3 | 35.3 | 3.8 | 51.4 | | | | 54.0 | -2.6 | Pass | | |
| Vpk | 7235.0 | 48.0 | 39.1 | 38.2 | 4.8 | 51.9 | | | | 54.0 | -2.1 | Pass | | |
| Ipper Band Edge | • | | | | | | | | | | | | | |
| Vpk | 2460.0 | 117.0 | 39.7 | 29.9 | 2.6 | 109.8 | | | | | | | | |
| Vavg | 2460.0 | 109.0 | 39.7 | 29.9 | 2.6 | 101.8 | | | | | | | | |
| 300KHZ RBW | | | | | | | | | | | | | | |
| Vpk | 2460.0 | 114.7 | 39.7 | 29.9 | 2.6 | 107.5 | | | | | | | | |
| Vbe | 2483.5 | 64.0 | 39.0 | 30.0 | 2.6 | 57.6 | | | | | | | | |
| Delta: | | 50.7 | | | | | | | | | | | | |
| PK @ BE | 2483.5 | 66.3 | 39.0 | 30.0 | 2.6 | 59.9 | | | | 74.0 | -14.1 | Pass | | |
| Avg @ BE | 2483.5 | 58.3 | 39.0 | 30.0 | 2.6 | 51.9 | | | | 54.0 | -2.1 | Pass | | |
| Test Site: | F | Pre-Amp: | Brown/HF | Cable: | EMIR-H | IGH 10 | Analyzer: | Brown | | Antenna: | Orange Hor | n/HF | | |

Note: No emissions found 18-25GHz range.

2dBi Antenna

Table 3

| Band Ed | ge | | | | | | | | | | Curtis-St | raus LLC | |
|---------------|--------------|------------|--------|-----------|---------------------------|-----------|-------------|--------------------|-------------|----------|-------------|-------------|--|
| Date: | 03-Aug-06 | | | Company: | Summit | Data Comn | nunications | | | V | Vork Order: | G0814 | |
| Engineer: | Mairaj Hussa | in | 1 | EUT Desc: | SDC-CC | 910G | | | | | | | |
| | Freque | ncy Range: | | | Measurement Distance: 3 m | | | | | | | | |
| Notes: | 802.11b; | | | RBW: | 1MHz | | | EUT Max Freq: 2460 | | | | | |
| | 2dBi antenna | | | VBW: | 1MHz & | 30Hz | | | | | | | |
| Antenna | | | Preamp | Antenna | Cable | Adjusted | | | | | FCC Class B | | |
| Polarization | Frequency | Reading | Factor | Factor | Factor | Reading | Limit | Margin | Result | Limit | Margin | Result | |
| (H / V) | (MHz) | (dBµV) | (dB) | (dB/m) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | (Pass/Fail) | (dBµV/m) | (dB) | (Pass/Fail) | |
| Set power 75% | | | | | | | | | | | | | |
| Hpk | 2409.0 | 115.2 | 39.3 | 29.8 | 2.5 | 108.2 | | | | | | | |
| Havg | 2409.0 | 113.5 | 39.3 | 29.8 | 2.5 | 106.5 | | | | | | | |
| 300KHz RBW | | | | | | | | | | | | | |
| Hpk | 2409.0 | 113.2 | 39.3 | 29.8 | 2.5 | 106.2 | | | | | | | |
| Hbe | 2389.1 | 58.0 | 39.4 | 29.7 | 2.5 | 50.8 | | | | | | | |
| Delta: | | 55.2 | | | | | | | | | | | |
| Pk @ BE | 2390.0 | 60.0 | 39.4 | 29.7 | 2.5 | 52.8 | | | | 74.0 | -21.2 | Pass | |
| Avg @ BE | 2390.0 | 58.3 | 39.4 | 29.7 | 2.5 | 51.1 | | | | 54.0 | -2.9 | Pass | |
| Test Site: | "F" | Pre-Amp: | Brown | Cable: | EMIR-H | IGH 10 | Analyzer: | Brown | | Antenna: | Orange Hor | n | |

Table 4

| T UDIC T | | | | | | | | | | | | |
|--------------|------------------------------|----------|--------|-----------|----------------|-----------|-------------|--------------------|-------------|--------------|-------------|-------------|
| Radiated | l Emissi | ons Tab | ole | | | | | | | | Curtis-St | raus LLC |
| Date: | 03-Aug-06 | | | Company: | Summit | Data Comn | nunications | | | V | Vork Order: | G0814 |
| Engineer: | Mairaj Hussa | in | I | EUT Desc: | SDC-CC | 910G | | | | | | |
| | | | | | | | | | Measuremer | nt Distance: | 3 m | |
| | 802.11b; Pov 2dBi antenna | | | | 1MHz 1MHz & | 30Hz | | EUT Max Freq: 2460 | | | | |
| Antenna | | | Preamp | Antenna | Cable | Adjusted | | | | | FCC Class E | 3 |
| Polarization | Frequency | Reading | Factor | Factor | Factor | Reading | Limit | Margin | Result | Limit | Margin | Result |
| (H / V) | (MHz) | (dBµV) | (dB) | (dB/m) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | (Pass/Fail) | (dBµV/m) | (dB) | (Pass/Fail) |
| 802.11b; CH1 | | | | | | | | | | | | |
| Hpk | 2464.0 | 116.0 | 39.7 | 29.9 | 2.6 | 108.8 | | | | | | |
| Havg | 2464.0 | 113.5 | 39.7 | 29.9 | 2.6 | 106.3 | | | | | | |
| 300KHz RBW | | | | | | | | | | | | |
| Hpk | 2464.0 | 113.2 | 39.7 | 29.9 | 2.6 | 106.0 | | | | | | |
| Hbe | 2487.9 | 58.2 | 39.0 | 30.0 | 2.6 | 51.8 | | | | | | |
| Delta: | | 55.0 | | | | | | | | | | |
| Pk @ BE | 2483.5 | 61.0 | 39.0 | 30.0 | 2.6 | 54.6 | | | | 74.0 | -19.4 | Pass |
| Avg @ BE | 2483.5 | 58.5 | 39.0 | 30.0 | 2.6 | 52.1 | | | | 54.0 | -1.9 | Pass |
| Test Site: | "F" | Pre-Amp: | Brown | Cable: | EMIR-H | IGH 10 | Analyzer: | Brown | | Antenna: | Orange Hor | n |

Restriction: Power set at 75% level for CH1 & CH11.

802.11g

5dBi Antenna

Table 5

| Band Ed | ge | | | | | | | | | | Curtis-Str | aus LLC |
|-------------------------|------------------------|-------------------|-------------------|------------------|----------------|---------------------|-------------------|----------------|-----------------------|-------------------|----------------|-----------------------|
| Date: | 03-Aug-06 | | | Company: | Summit | Data Comr | nunications | | | V | Vork Order: | G0814 |
| Engineer: | Mairaj Hussa | iin | | EUT Desc: | SDC-CC | 310G | | | | | | |
| | | | | | | | | ı | V leasuremer | nt Distance: | 3 m | |
| Notes: | 5dBi antenna | RWB: VBW: | 1MHz 1MHz & 30 | | | EUT Max Freq: 2460 | | | | | | |
| Antenna | | | Preamp | Antenna | Cable | Adjusted | | | | | FCC Class E | 3 |
| Polarization (H / V) | Frequency (MHz) | Reading (dBµV) | Factor (dB) | Factor (dB/m) | Factor (dB) | Reading (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Result (Pass/Fail) | Limit (dBµV/m) | Margin (dB) | Result (Pass/Fail) |
| Set power to | et power to 60% at CH1 | | | | | | | | | | | |
| Vpk | 2407.0 | 114.0 | 39.3 | 29.8 | 2.5 | 107.0 | | | | | | |
| Vavg | 2412.0 | 107.0 | 39.4 | 29.8 | 2.5 | 99.9 | | | | | | |
| 300KHZ RBW | | | | | | | | | | | | |
| Vpk | 2407.0 | 110.6 | 39.3 | 29.8 | 2.5 | 103.6 | | | | | | |
| Vbe | 2390.0 | 62.0 | 39.4 | 29.7 | 2.5 | 54.8 | | | | | | |
| Delta: | | 48.6 | | | | | | | | | | |
| PK @ BE | 2390.0 | 65.4 | 39.4 | 29.7 | 2.5 | 58.2 | | | | 74.0 | -15.8 | Pass |
| Avg @ BE | 2390.0 | 58.4 | 39.4 | 29.7 | 2.5 | 51.2 | | | | 54.0 | -2.8 | Pass |
| Test Site: | "F" | Pre-Amp: | Brown | Cable: | EMIR-H | IGH 10 | Analyzer: | Brown | | Antenna: | Orange Hor | n |

Restriction: CH1 power set at 60%

Table 6

| i able o | | | | | | | | | | | | |
|---------------|--------------|----------|--------|-----------|--------|-----------|-------------|--------|-------------|--------------|-------------|-------------|
| Upper Ba | and Edg | е | | | | | | | | | Curtis-Str | aus LLC |
| Date: | 03-Aug-06 | | | Company: | Summit | Data Comn | nunications | | | V | Vork Order: | G0814 |
| Engineer: | Mairaj Hussa | in | | EUT Desc: | SDC-CG | 910G | | | | | | |
| | | | | | | | | | Measuremer | nt Distance: | 3 m | |
| Notes: | | | RWB: | 1MHz | | | | | EU | Γ Max Freq: | 2460 | |
| | 5dBi antenna | ı | VBW: | 1MHz & 30 | Hz | | | | | | | |
| Antenna | | | Preamp | Antenna | Cable | Adjusted | | | | | FCC Class E | 3 |
| Polarization | Frequency | Reading | Factor | Factor | Factor | Reading | Limit | Margin | Result | Limit | Margin | Result |
| (H / V) | (MHz) | (dBµV) | (dB) | (dB/m) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | (Pass/Fail) | (dBµV/m) | (dB) | (Pass/Fail) |
| Power set 60% | | | | | | | | | | | | |
| Vpk | 2457.6 | 114.1 | 39.7 | 29.9 | 2.6 | 106.9 | | | | | | |
| Vavg | 2456.0 | 105.0 | 39.7 | 29.9 | 2.6 | 97.8 | | | | | | |
| 300KHz RBW | | | | | | | | | | | | |
| Vpk | 2466.1 | 110.0 | 39.6 | 29.9 | 2.6 | 102.9 | | | | | | |
| Vbe | 2483.5 | 60.0 | 39.0 | 30.0 | 2.6 | 53.6 | | | | | | |
| Delta: | | 50.0 | | | | | | | | | | |
| Pk @ BE | 2483.5 | 64.1 | 39.0 | 30.0 | 2.6 | 57.7 | | | | 74.0 | -16.3 | Pass |
| Avg @ BE | 2483.5 | 55.0 | 39.0 | 30.0 | 2.6 | 48.6 | | | | 54.0 | -5.4 | Pass |
| Test Site: | "F" | Pre-Amp: | Brown | Cable: | EMIR-H | IGH 10 | Analyzer: | Brown | | Antenna: | Orange Hor | n |

Restriction: CH11 power set at 60%

10.15.101.1

2dBi Antenna

Table 7

| Lower B | and Edg | je | | | | | | | | | Curtis-St | aus LLC |
|--------------|------------------------------|----------|--------|-----------|----------------|-----------|-------------|--------|-------------|--------------|-------------|-------------|
| Date: | 03-Aug-06 | | | Company: | Summit | Data Comn | nunications | | | V | Vork Order: | G0814 |
| Engineer: | Mairaj Hussa | iin | | EUT Desc: | SDC-CC | 910G | | | | | | |
| | | | | | | | | ı | Measuremer | nt Distance: | 3 m | |
| Notes: | Power set 50 2dBi antenna | | | RWB: | 1MHz 1MHz & | 30Hz | | | EU | Γ Max Freq: | 2460 | |
| Antenna | | | Preamp | Antenna | Cable | Adjusted | | | | | FCC Class I | 3 |
| Polarization | Frequency | Reading | Factor | Factor | Factor | Reading | Limit | Margin | Result | Limit | Margin | Result |
| (H / V) | (MHz) | (dBµV) | (dB) | (dB/m) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | (Pass/Fail) | (dBµV/m) | (dB) | (Pass/Fail) |
| 802.11g; CH1 | | | | | | | | | | | | |
| Hpk | 2407.0 | 114.8 | 39.3 | 29.8 | 2.5 | 107.8 | | | | | | |
| Havg | 2407.0 | 108.0 | 39.3 | 29.8 | 2.5 | 101.0 | | | | | | |
| 300KHz RBW | | | | | | | | | | | | |
| Hpk | 2407.0 | 110.7 | 39.3 | 29.8 | 2.5 | 103.7 | | | | | | |
| Hbe | 2390.0 | 63.2 | 39.4 | 29.7 | 2.5 | 56.0 | | | | | | |
| Delta: | | 47.5 | | | | | | | | | | |
| Pk @ BE | 2390.0 | 67.3 | 39.4 | 29.7 | 2.5 | 60.1 | | | | 74.0 | -13.9 | Pass |
| Avg @ BE | 2390.0 | 60.5 | 39.4 | 29.7 | 2.5 | 53.3 | | | | 54.0 | -0.7 | Pass |
| Test Site: | "F" | Pre-Amp: | Brown | Cable: | EMIR-H | IGH 10 | Analyzer: | Brown | | Antenna: | Orange Hor | n |

Table 8

| Date: | 03-Aug-06 | | | Company: | Summit | Data Comn | nunications | | | V | Vork Order: | G0814 |
|---------------|--------------|---------|---------------------------|--------------|----------------|-----------|-------------|--------|-------------|-------------|-------------|-------------|
| | Mairaj Hussa | in | | EUT Desc: | | | | | | - | | 000 |
| | <u> </u> | | Measurement Distance: 3 m | | | | | | | | | |
| Notes: | 2dBi antenna | l | | RWB: VBW: | 1MHz 1MHz & | 30Hz | | | EUT | Г Max Freq: | 2460 | |
| Antenna | | | Preamp | Antenna | Cable | Adjusted | | | | | FCC Class E | 3 |
| Polarization | Frequency | Reading | Factor | Factor | Factor | Reading | Limit | Margin | Result | Limit | Margin | Result |
| (H / V) | (MHz) | (dBµV) | (dB) | (dB/m) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | (Pass/Fail) | (dBµV/m) | (dB) | (Pass/Fail) |
| Power set 50% | | | | | | | | | | | | |
| Hpk | 2463.9 | 114.0 | 39.7 | 29.9 | 2.6 | 106.8 | | | | | | |
| Havg | 2464.0 | 106.0 | 39.7 | 29.9 | 2.6 | 98.8 | | | | | | |
| 300KHz RBW | | | | | | | | | | | | |
| Hpk | 2466.1 | 110.0 | 39.6 | 29.9 | 2.6 | 102.9 | | | | | | |
| Hbe | 2483.5 | 61.8 | 39.0 | 30.0 | 2.6 | 55.4 | | | | | | |
| Delta: | | 48.2 | | | | | | | | | | |
| Pk @ BE | 2483.5 | 65.8 | 39.0 | 30.0 | 2.6 | 59.4 | | | | 74.0 | -14.6 | Pass |
| | 2483.5 | 57.8 | 39.0 | 30.0 | 2.6 | 51.4 | 1 | | | 54.0 | -2.6 | Pass |

Restriction: Power set for CH1 & CH11 at 50% level

Table 9

| Spurious | s Emissi | ons | | | | | | | | Curtis-St | raus LLC |
|---|---|-------------------|--|------------------|----------------|---------------------|-------------|-----------|-------------------|----------------|-----------------------|
| Date: | 03-Aug-06 | | | Company | : Summit | Data Comn | nunications | | ٧ | Vork Order: | G0814 |
| Engineer: | Mairaj Hussai | in | EUT Desc: SDC-CG10G | | | | | | | | |
| | Freque | ncy Range: | 1 - 18GHz I | Restricted Band | | | | Measureme | nt Distance: | 3 m | |
| Notes: VBW: 1MHz EUT Max Freq: 2460 2dBi antenna RBW:1MHz | | | | | | | | | | | |
| Antenna | | | Preamp | Antenna | Cable | Adjusted | | | | FCC Class I | 3 |
| Polarization (H / V) | Frequency (MHz) | Reading (dBµV) | Factor (dB) | Factor (dB/m) | Factor (dB) | Reading (dBµV/m) | | | Limit (dBµV/m) | Margin (dB) | Result (Pass/Fail) |
| 802.11b & g Hpk | 4924.3 | 51.0 | 39.0 | 35.6 | 3.8 | 51.4 | | | 54.0 | -2.6 | Pass |
| Table | Table Result:Passby-2.6 dBWorst Freq:4924.3 MHz | | | | | | | MHz | | | |
| Test Site: | "F" | Pre-Amp: | mp: Brown Cable: EMIR-HIGH 10 Analyzer: Brown Antenna: Orange Horn | | | | | | 'n | | |

Test Descriptions

Radiated Emissions Testing Overview

REV 22-SEP-05

Digital and microprocessor based devices use radio frequency (RF) digital signals for timing purposes. An unintentional consequence of this signal usage is that a certain amount of RF energy is radiated from the device into the local environment. This radiated RF energy has the potential to interfere with constructive uses of the RF spectrum such as television broadcasting, police and fire radio, and the like. In order to reduce the likelihood that a device will interfere with these services, it is required that the amplitudes of radiated RF signals from the device are kept below an allowable level.

These RF signals decrease in strength as the distance from the source increases. Thus if the potential victim of interference, e.g. a TV receiver, is far enough from the radiator, e.g. a computer, then no interference will occur. For certain environments it is appropriate to expect that potential interference victims will be located at least a minimum distance from the radiator. For the residential environment this distance is generally accepted to be 10 meters while in the commercial environment the accepted distance is 30 meters. The allowable emissions levels are therefore specified to protect equipment which is located further than that distance from the radiator. In general, radiation from the Equipment Under Test (EUT) is measured at 3 or 10 meters to insure that it is at or below allowable levels.

Measurements of the radiated energy are made by recording the field strength indicated by an antenna placed at a specific distance from the device. Most devices do not radiate the RF energy in a predictable manner. The emitted energy may vary with changes in operating mode, physical configuration, or orientation. During the measurement process these parameters are varied to confirm that the emissions will remain below the allowable levels in the range of typical installations.

The extent of annoyance experienced by a person who is being affected by interference is related to the persistence of the interfering signal. For example, a low level steady whine from a receiver is considered to be more annoying than brief, loud, intermittent pops or clicks. This "human factor" is accounted for by the use of a "quasi-peak" detector in the receiver or spectrum analyzer which measures the signal from the measurement antenna. The detector is a weighted averaging filter with a fast charge time and a slow discharge time. Thus steady continuous signals will charge the quasi-peak detector fully while intermittent signals (those with pulse repetition rates less than 1kHz) are reported at a level which can be significantly below their peak level. It should be noted that most RF signals produced by digital devices are continuous in nature and thus the quasi-peak reading will be identical to the peak signal reading. To reduce the test time, the peak emission level is recorded for continuous wave signals as it is the same as the quasi-peak signal level.

Testing is performed according to test methods from ANSI C63.4 and CISPR 22.

The test site used for measuring radiated emissions follows the format developed internationally for a weather protected Open Area Test Site (OATS). An antenna mast is



installed at the specified distance from a rotating table and is used to raise and lower the measuring antenna. The reference site is clear of reflecting objects, such as metal fences and buildings for an ellipse of twice the measurement test distance. Measuring equipment and personnel are present within the ellipse to facilitate cable manipulation, but measures are taken to minimize the effects. Often preliminary radiated emissions measurements are made at alternate test sites which do not meet the clear space reference criteria. The data collected at alternate test sites is not considered conclusive unless the alternate site also complies with a volumetric site attenuation survey performed over the area that the EUT occupies. The EUT and measuring antenna mark the two foci of the ellipse. The ground plane is made of a combination of galvanized steel sheets and tight wire mesh electrically connected along the seams. This metal ground plane extends 1 meter beyond the furthest extent of the EUT and the measuring antenna. It also covers the area between the EUT and the measuring antenna. The hardware cloth is connected to the utility ground or to stakes driven into the earth for safety.

In order for accurate emissions measurements to be made the test site must possess propagation characteristics which fall within accepted norms. The site has been checked for suitability using techniques specified in American National Standards Institute (ANSI) document C63.4. This document details a procedure which measures the attenuation of the site which is the chief indicator of site acceptability. The theory behind site attenuation is quite simple. A transmitting antenna is set up at a fixed location at one end of the site with a receiving antenna at the other end. If a signal of some arbitrary amplitude is fed into the transmitting antenna, a lesser amount of signal ought to be measured at the receiving antenna. This difference in signal amplitude is known as the site attenuation, which should follow a predicted curve. Data that does not correspond to the predicted site attenuation curve points to a problem with either the equipment being used or the physical characteristics of the site.

Actual emissions measurements are taken with broadband biconical-log-periodic hybrid antennas calibrated in accordance with the standard site method detailed in ANSI C63.5. Emissions are measured with the receiving antenna oriented in horizontal and vertical polarization with respect to the ground plane. If measurements are made at other than the limit distance, then the readings obtained are scaled to the limit distance using an inverse relationship. The actual test distance used is noted in the report.

The antenna mast is capable of a varying the antenna height between 1 and 4 meters above the ground plane. The receiving antenna is moved over this range at each emission frequency in order to record the maximum observed signal. The mast is non-conductive and remotely controllable. The test distance is measured from the antenna center (marked during calibration) and the periphery of the EUT.

The Equipment Under Test (EUT) is rotated in order to maximize emissions during the test. For equipment intended to operate on a tabletop or desk radiated tests are conducted on a 0.8 meter high, non-conductive platform. Larger floor standing equipment is tested on a floor mounted rotatable platform. In some cases, large equipment on its own casters may be tested without a platform.

Since radiated emissions are a function of cable placement, the cable placement is varied to encompass typical configurations that an end user might encounter to determine the configuration resulting in maximum emissions. At least one cable for each I/O port type is

attached to the EUT. If peripherals or modules are available, at least one of each available type is installed and noted in the report. Excess cable length beyond one meter is bundled in the center into a 30 to 40 cm bundle. Cables requiring non-standard lead dress are recorded in the report.

Network connections are simulated if necessary. Any simulator used matches the expected real network connection in terms of both functionality and impedance. For distributed systems, the support equipment may be placed at such a distance that it does not influence the measured emissions. If this option is used, such placement is noted in the test report.

The possible operating modes of the EUT are explored to determine the configuration which maximizes emissions. Software is investigated as well as different methods of displaying data if available. Data is recorded in the worst case operating mode.

At least the six highest emissions with respect to the limit are recorded. If less than six emissions are visible above the noise floor of the instrumentation, then noise floor measurements at six representative frequencies are recorded. The test report will document if noise floor readings are reported.

| FCC ar | FCC and European Norms Radiated Emissions Limits at 10 meters | | | | | | | | | | | |
|-----------------|---|-------------|---------------|---------------|-----------------|--|--|--|--|--|--|--|
| Frequency (MHz) | FCC Class A | FCC Class B | CISPR Class A | CISPR Class B | Frequency (MHz) | | | | | | | |
| 30-88 | 39.1 | 29.5 | 40 | 30 | 30-88 | | | | | | | |
| 88-216 | 43.5 | 33.1 | 40 | 30 | 88-216 | | | | | | | |
| 216-230 | 46.4 | 35.6 | 40 | 30 | 216-230 | | | | | | | |
| 230-960 | 46.4 | 35.6 | 47 | 37 | 230-960 | | | | | | | |
| 960-1000 | 49.5 | 43.5 | 47 | 37 | 960-1000 | | | | | | | |
| 1000+ | 49.5 | 43.5 | N/A | N/A | 1000+ | | | | | | | |

At the transitions, the lower limit applies. Simple inverse scaling utilized to convert limits where appropriate.

| FCC a | FCC and European Norms Radiated Emissions Limits at 3 meters | | | | | | | | | | | |
|-----------------|--|-------------|---------------|---------------|-----------------|--|--|--|--|--|--|--|
| Frequency (MHz) | FCC Class A | FCC Class B | CISPR Class A | CISPR Class B | Frequency (MHz) | | | | | | | |
| 30-88 | 49.5 | 40 | 50.5 | 40.5 | 30-88 | | | | | | | |
| 88-216 | 54 | 43.5 | 50.5 | 40.5 | 88-216 | | | | | | | |
| 216-230 | 56.9 | 46 | 50.5 | 40.5 | 216-230 | | | | | | | |
| 230-960 | 56.9 | 46 | 57.5 | 47.5 | 230-960 | | | | | | | |
| 960-1000 | 60 | 54 | 57.5 | 47.5 | 960-1000 | | | | | | | |
| 1000+ | 60 | 54 | N/A | N/A | 1000+ | | | | | | | |

At the transitions, the lower limit applies.

Simple inverse scaling utilized to convert limits where appropriate.

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For CISPR and EU standards measurements are usually made over the frequency range of 30 MHz to 1GHz. Deviations are noted in the test report. For the FCC, the measurement range is based on the highest frequency signal present or used in the device. The following table details the frequency range of measurements performed.

| FCC frequency range of radiated emissions measurements | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| Highest frequency generated or used in the device or on which the device operates or tunes (MHz) | Upper frequency of measurement range (MHz) | | | | | | | |
| Below 1.705 | 30 (No radiated measurements) | | | | | | | |
| 1.705-108 | 1000 | | | | | | | |
| 108-500 | 2000 | | | | | | | |
| 500-1000 | 5000 | | | | | | | |
| Above 1000 | 5 th harmonic of the highest frequency or 40 GHz, whichever is lower. | | | | | | | |

The test data is derived from the voltage on the spectrum analyzer. First the reading is corrected for gain factors associated with the use of preamps and loss in the cable. A factor in dB is subtracted from the reading to account for preamp gain, while a factor in dB is added to the signal to account for cable loss. A conversion is performed from the resulting voltage to field strength by multiplying the voltage by the antenna factor. Since antenna factor is expressed as a logarithm (dB/m), this operation takes the form of an addition (to multiply logarithmic numbers, you add them together). Thus:

Field Strength (dBuV/m) = Voltage Reading (dBuV) - Preamp Gain (dB) + Cable Loss (dB) + Antenna Factor (dB/m)
When the levels of ambient radio signals such as local television stations are within 6 dB
of the appropriate limit, the following steps may be taken to assure compliance:

- The measurement bandwidth may be reduced. A check is made to see that peak readings are not affected. The use of a narrower bandwidth allows examination of emissions close to local ambient signals.
- 2. The antenna may be brought closer to the EUT to increase signal-to-ambient signal strength.
- 3. For horizontally polarized signals the axis of the test site may be rotated to discriminate against local ambients.

Standard Uncertainty per NIST Technical Note 1297 1994 for this test is estimated to be 2.8dB. This test method is covered by our A2LA accreditation.

Line Conducted Emissions Overview

REV 9-MAY-06

Digital and microprocessor based devices use radio frequency (RF) digital techniques for timing purposes and in applications such as switching power supplies. An unintentional consequence of this for AC powered devices is that a certain amount of the RF energy is impressed upon the AC power mains in the form of a conducted noise voltage. These



3 05001 100

conducted emissions have the potential to interfere with constructive uses of the RF spectrum such as AM radio and may also interfere with other devices attached to the same AC mains circuit. In order to reduce the likelihood that a device will interfere it is required that the conducted RF signals from the device are below an allowable level.

Testing is performed according to test methods from ANSI C63.4 and CISPR 22.

Line conducted emissions are measured from the device over the frequency range of 0.15 to 30 MHz. The EUT is powered from a Line Impedance Stabilization Network (LISN). The purpose of the LISN is to provide a calibrated impedance across which to measure the conducted emissions. The RF noise voltage produced by the EUT across the LISN is measured and compared to the limit. In order for the LISN to perform properly it is attached to a ground plane at least 2 meters by 2 meters in size. For tabletop equipment the measurement is performed with the equipment 40 cm from a vertical conducting surface bonded to a ground plane under the product. The ground plane extends 0.5 meters beyond the product and is 2.5mx3.7m in size. The vertical surface is 2.5mx2.5m.

As with radiated emissions, the "human factor" is accounted for by the use of a "quasi-peak" detector in the receiver or spectrum analyzer that measures the signal from the LISN. For certain tests (such as EN55022), both an average and a quasi-peak limit are specified. Emissions from a device must be below both limits when measured with the appropriate detector. If the emission level is below the average limit when measured with the quasi-peak detector, the EUT is presumed to pass both limits.

The possible operating modes of the EUT are explored to determine the configuration that maximizes emissions. Software is investigated as well as different methods of displaying data if available. Data is recorded in the worst case operating mode.

As of September 9, 2002, the FCC has harmonized it's conducted emission limits with CISPR. The following table displays the limits applicable to both FCC and CISPR.

| Line Conducted Emissions Limits: Class A (dBµV) | | | | | | | | | |
|---|------------------------|---------------------|--|--|--|--|--|--|--|
| Frequency (MHz) | Quasi-Peak | Average | | | | | | | |
| 0.15 - 0.5 79 66 | | | | | | | | | |
| 0.5 - 30 | 73 | 60 | | | | | | | |
| Line Conducted Emissions Limits: Class B (dBµV) | | | | | | | | | |
| | | | | | | | | | |
| Frequency (MHz) | Quasi-Peak | Average | | | | | | | |
| | | | | | | | | | |
| Frequency (MHz) | Quasi-Peak | Average | | | | | | | |
| Frequency (MHz) 0.15 - 0.5 | Quasi-Peak 66 - 56* | Average 56 - 46* | | | | | | | |

At least the six highest emissions with respect to the limit are recorded. If less than six emissions are visible above the noise floor of the instrumentation, then the noise floor at six representative frequencies is recorded. The test report will document if noise floor readings are reported.

Standard Uncertainty per NIST Technical Note 1297 1994 for this test is estimated to be 2dB.

All testing is performed within the framework of a laboratory quality system modeled on ISO/IEC 17025 *General requirements for the competence of calibration and testing laboratories* and is subject to our terms and conditions. This test method is covered by our A2LA accreditation.

Test Equipment Used

CISPR TELCO VOLTAGE PROBE

CISPR 22 TELCO ISN

10kHz-30MHz

9ĸHz-30MHz

| | | | | | | RE | v. 28-JUL-2 | 006 | |
|-----------------------------------|-----------------|--------------|----------|----------|-----|--------|-------------|------|-----------------|
| SPECTRUM ANALYZERS / RECEIVERS | RANGE | MN | MFR | SN | | ASSET | Сат | (| CALIBRATION DUE |
| RED | 9kHz-1.8GHz | 8591E | HP | 3441A03 | 559 | 00024 | I | | 30-DEC-2006 |
| WHITE | 9kHz-22GHz | 8593E | HP | 3547U01 | 252 | 00022 | - 1 | | 14-MAR-2007 |
| BLUE | 9kHz-1.8GHz | 8591E | HP | 3223A002 | 227 | 00070 | - 1 | | 14-DEC-2006 |
| YELLOW | 9kHz-2.9GHz | 8594E | HP | 3523A019 | 958 | 00100 | - 1 | | 05-JUN-2007 |
| GREEN | 9kHz-26.5GHz | 8593E | HP | 3829A030 | 618 | 00143 | - 1 | | 21-NOV-2006 |
| BLACK | 9kHz-12.8GHz | 8596E | HP | 3710A009 | 944 | 00337 | - 1 | | 02-NOV-2006 |
| Telecom 3585A | 20Hz-40.0MHz | 3585A | HP | 2504A052 | 219 | 00030 | - 1 | | 07-FEB-2007 |
| TELECOM 3585A | 20Hz-40.0MHz | 3585A | HP | 1750A03 | 418 | 00558 | 1 | | 23-MAY-2007 |
| Telecom 3585A | 20Hz-40.0MHz | 3585A | HP | 1750A02 | 762 | 01067 | - 1 | | 01-MAR-2007 |
| ORANGE | 9kHz-26.5GHz | E4407B | HP | US39440 | 975 | 00394 | I | | Out of Service |
| BROWN (RENTAL) | 9kHz-26.5GHz | E4407B | HP | SG44210 | 511 | Rental | 1 | | 05-JAN-2007 |
| EMI TEST RECEIVER | 20-1000MHz | ESVS30 | R&S | 827957/0 | 001 | 01098 | I | | 27-OCT-2006 |
| | | | | | | | | | |
| LISNS/MEASUREMENT PROBES | RANGE | MN | | MFR | S | N | ASSET | Сат | CALIBRATION DUE |
| RED | 10kHz-30MHz | 8012-50-R-24 | I-BNC | SOLAR | 956 | 348 | 00753 | II | 05-MAY-2007 |
| BLUE (DC) | 10kHz-30MHz | 8012-50-R-24 | I-BNC | SOLAR | 956 | 349 | 00752 | II | 05-MAY-2007 |
| YELLOW-BLACK | 10kHz-30MHz | 8012-50-R-24 | I-BNC | SOLAR | 984 | 735 | 00248 | Ш | 05-MAY-2007 |
| ORANGE | 10kHz-30MHz | 8012-50-R-24 | I-BNC | SOLAR | 903 | 707 | 00754 | Ш | 05-MAY-2007 |
| GOLD (DC) | 10kHz-30MHz | 8012-50-R-24 | I-BNC | SOLAR | 984 | 734 | 00247 | Ш | 05-MAY-2007 |
| Brown | 10kHz-30MHz | 8012-50-R-24 | I-BNC | SOLAR | 041 | 1656 | 00986 | II | 05-MAY-2007 |
| GREEN | 10kHz-30MHz | 8012-50-R-24 | I-BNC | SOLAR | 041 | 1657 | 00987 | Ш | 08-MAY-2007 |
| YELLOW | 10kHz-30MHz | 8012-50-R-24 | I-BNC | SOLAR | 041 | 1658 | 1080 | II | 05-MAY-2007 |
| WHITE-BLACK | 10kHz-30MHz | 8610-50-TS- | 100-N | SOLAR | 972 | 019 | 00678 | Ш | 05-MAY-2007 |
| BLACK | 10kHz-30MHz | 8610-50-TS-1 | 100-N | SOLAR | 972 | 017 | 00675 | II | 05-MAY-2007 |
| RED-BLACK | 10kHz-30MHz | 8610-50-TS- | 100-N | SOLAR | 972 | 016 | 00677 | Ш | 05-MAY-2007 |
| BLUE-BLACK | 10kHz-30MHz | 8610-50-TS- | 100-N | SOLAR | 972 | 018 | 00676 | Ш | 05-MAY-2007 |
| BLUE MONITORING PROBE | 0.01-150MHz | 91550-2 | 2 | TEGAM | 12 | 350 | 00807 | - 1 | 26-MAY-2007 |
| YELLOW MONITORING PROBE | 0.01-150MHz | 91550-2 | <u> </u> | ETS | 50 | 972 | 00493 | - 1 | 23-JAN-2008 |
| GREEN CURRENT TRANSFORMER | 40Hz-20MHz | 150 | | PEARSON | 10 | 226 | 00793 | - 1 | 07-APR-2007 |
| BLUE CISPR LINE PROBE | 150кHz-30MHz | N/A | | C-S | | /A | 00805 | Ш | 08-JUN-2007 |
| BLACK CISPR LINE PROBE | 150kHz-30MHz | N/A | | C-S | N | /A | NONE | Ш | 08-JUN-2007 |
| CIORD TELOG VOLTAGE PROPE | 40v4 la 20M1 la | CC A/C 1 | 0 | 0.0 | | 201 | 00206 | - 11 | 20 CED 2006 |

| _ | Ones: Anes Tene Cire (OATC) | F00 000F | 10.0005 | V/CCI Cops | C+= | CALIBRATION DUE |
|---|-----------------------------|----------|-------------|------------|-----|-----------------|
| | OPEN AREA TEST SITE (OATS) | FCC CODE | IC CODE | VCCI CODE | Сат | CALIBRATION DUE |
| | SITE F | 93448 | IC 2762-F | R-1688 | II | 04-APR-2007 |
| | SITE T | 93448 | IC 2762-T | R-905 | Ш | 14-AUG-2007 |
| | SITE A | 93448 | IC 2762-A | R-903 | II | 13-AUG-2007 |
| | SITE M | 93448 | IC 2762-M | R-904 | II | 19-MAR-2007 |
| _ | SITE J | 93448 | IC 2762A-10 | | II | 11-APR-2008 |

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20115

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00746

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30-SEP-2006

26-OCT-2006

CS A/C-10

FCC-TLISN-T4

| LINE CONDUCTED TEST SITES | FCC CODE | IC CODE | VCCI CODE | Сат | CALIBRATION DUE |
|---------------------------|----------|---------|-----------|-----|-----------------|
| EMI 1 | 93448 | N/A | C-1801 | III | NA |
| EMI 2 | 93448 | N/A | C-1802 | Ш | NA |
| EMI 3 | 93448 | N/A | C-1803 | Ш | NA |

| MIXERS/DIPLEXERS | RANGE | MN | MFR | SN | ASSET | Сат | CALIBRATION DUE |
|------------------|-------------|--------------------|-------------|-----------------------|-------|-----|-----------------|
| Mixer / Horn | 26.5-40 GHz | 11970A/28-442-6 | HP/ATM | 2332A01695/A046903-01 | 1087 | I | 23-AUG-2006 |
| Mixer / Horn | 26.5-40 GHz | 11970A/28-442-6 | HP/ATM | 3003A07825/A046903-01 | 1086 | I | 23-AUG-2006 |
| Mixer / Horn | 40-60 GHz | M19HW/A | OML | U30110-1 | 00821 | I | 02-MAR-2007 |
| MIXER | 33-50 GHz | 11970Q | HP | 3003A03155 | 00104 | 1 | 08-NOV-2007 |
| Mixer / Horn | 50-75 GHz | 11970V /QWH-VPRROO | HP/QuinStar | 2521A01197/8794001 | 1179 | I | 15-NOV-2007 |
| MIXER | 75-110 GHz | 11970W | HP | 2521A01334 | 00105 | I | 22-NOV-2007 |
| Mixer / Horn | 60-90 GHz | M12HW/A | OML | E30110-1 | 00822 | 1 | 03-MAR-2007 |
| MIXER / HORN | 90-140 GHz | MO8HW/A | OML | F21206-1 | 00811 | I | 03-MAR-2007 |
| MIXER / HORN | 140-220 GHz | MO5HW/A | OML | G21206-1 | 00812 | П | |
| DIPLEXER | 40-220 GHz | DPL.26 | OML | N/A | 00813 | I | 03-MAR-2007 |

| ABSORBING | Davies | * ** * | | Mee | 011 | A | ^ | | On the series by |
|--------------------------------------|--------------------------|----------------------|------------------------|-----------------------|----------------|------------|--|-------------|--|
| CLAMPS | RANGE | MN | | MFR | SN | Asse | | AT | CALIBRATION DUE |
| FISCHER CLAMP | 30-1000MHz | F-201-23 | BMM F | FISCHER | 10 | 3000 | 31 | <u> </u> | 20-JAN-2008 |
| HARMONIC & FLICKER AI | NALYZER | MN | MFR | (| SN | As | SSET | Сат | CALIBRATION DUE |
| HFTS | HF | P6842A | HP | 3531 | A-00169 | | 738 | П | 30-DEC-2007 |
| 10001I/2 AC POWER SY | STEM (2 | 2) 500I CALIF | ORNIA INSTRUMENT | rs HK53687 | 7/HK5368 | 8 00 |)376 | II | 09-JAN-2008 |
| PREAMPS / ATTENUATORS | s/ _ | | | | | | | | |
| FILTERS | KANGE | | MN | MFR | | SN | ASSET | Сат | CALIBRATION DUE |
| RED | 0.10-2000 | | L-1000-LN | C-S | | I/A | 00798 | II | 28-JUL-2007 |
| BLUE BLUE | 0.01-2000 | | L-1000-LN | C-S | | 1/A | 00759 | II | 20-JUL-2007 |
| Blue-Black Green | 0.01-2000l 0.01-2000l | | L-1000-LN L-1000-LN | C-S C-S | | I/A I/A | 00800 00802 | II II | 04-JAN-2007 20-JUL-2007 |
| BLACK | 0.01-2000 | | L-1000-LN L-1000-LN | C-S | | N/A N/A | 00799 | ii | 20-JUL-2007 20-JUL-2007 |
| ORANGE | 0.01-2000 | | L-1000-LN | C-S | | N/A | 00765 | ii | 28-DEC-2006 |
| WHITE | 1-20GH | | SMC-12A | C-S | | 6643 | 00760 | ii | 22-JUL-2007 |
| Brown | 1-20GH | | 18-4R5-17-15-SFF | | | 1655 | 1132 | ii | 14-APR-2007 |
| YELLOW-BLACK | 1-20GH | | SMC-12A | C-S | | 5055 | 00801 | ii | 22-JUL-2007 |
| RED-GREEN | 1-20GH | z PM2-38-2 | 18-4R5-17-15-SFF | C-S | | | | Ш | 30-MAY-2007 |
| HF (YELLOW) | 18-26.5G | Hz AFS4-18 | 3002650-60-8P-4 | C-S | 46 | 7559 | 00758 | II | 23-AUG-2007 |
| HIGH PASS FILTER | 1-18 GH | lz SP | A-F-55204 | K&L | | 36 | 00817 | II | 05-JAN-2008 |
| Low Pass Filter | 1-9 GH: | | 4100/X4400-O/O | K&L | | 4 | 00816 | II | 05-JAN-2008 |
| HF 20dB 50W ATTENUATOR | | | E 7019-20 | Pasternaci | | 01 | 00791 | II | 10-MAY-2007 |
| HF 30dB 50W ATTENUATOR | R 0.03-20 G | | E 7019-30 | PASTERNACI | | 02 | 1168 | II | 10-MAY-2007 |
| Low Freq LPF | 10-100kl | Hz Li | 200K1G1 | MICROWAVE CIRCUITS | 4460-0 | 1 DC0432 | 1019 | II | Out of Service |
| Low Freq LPF | 10-100kl | Hz Li | 200K1G1 | MICROWAVE CIRCUITS | 4777-0 | 1 DC0434 | 1088 | II | OUT OF SERVICE |
| ANTENNAO | DANIOE | MAN | MED | CNI | A 0.05T | 0 | | CALIBB | ATION DUE |
| ANTENNAS | RANGE | MN | MFR | SN | ASSET | Сат | | | ATION DUE |
| GREEN BILOG | 30-2000MHz | CBL6112B | CHASE | 2742 | 00620 | II | | | AN-2008 |
| GREEN-BLACK BILOG GREEN-RED BILOG | 30-2000MHz 30-2000MHz | CBL6112B CBL6112B | CHASE CHASE | 2412 2435 | 00127 00990 | II I | | | AN-2008 |
| BLUE BILOG | 30-2000MHz | 3143 | EMCO | 2435 1271 | 00803 | ii | | | PR-2008 AY-2007 |
| GRAY BILOG | 20-2000MHz | 3141 | EMCO | 9703-1038 | 00003 | ii | 06-MAY-2 | |) / 30-JUN-2007(RFI2) |
| YELLOW-BLACK BILOG | 20-2000MHz | CBL6140A | CHASE | 1112 | 00126 | ii | | | I) / 01-MAY-2007(RFI) |
| RED-WHITE BILOG | 30-2000MHz | JB1 | SUNOL | A091604-1 | 01105 | ii | 00 | | PR-2008 |
| RED-BLACK BILOG | 30-2000MHz | JB1 | SUNOL | A091604-2 | 01106 | ii | | | PR-2008 |
| RED-BROWN BILOG | 30-2000MHz | JB1 | SUNOL | A0032406 | 1218 | - 1 | | | AR-2008 |
| YELLOW HORN | 1-18GHz | 3115 | EMCO | 9608-4898 | 00037 | 1 | 27-MAY-2 | 2007(EMI |) / 18-MAY-2007 (RFI) |
| BLACK HORN | 1-18GHz | 3115 | EMCO | 9703-5148 | 00056 | ı | | 17-Jl | JN-2007 |
| ORANGE HORN | 1-18GHz | 3115 | EMCO | 0004-6123 | 00390 | ı | | | JN-2007 |
| HF (WHITE) HORN | 18-26.5GHz | 801-WLM | WAVELINE | 00758 | 00758 | I | | | JG-2007 |
| SMALL LOOP | 10kHz-30MHz | PLA-130/A | ARA | 1024 | 00755 | Į. | | | EB-2008 |
| LARGE LOOP | 20Hz-5MHz | 6511 | EMCO | 9704-1154 | 00067 | ! | | | AN-2008 |
| ACTIVE MONOPOLE | 30Hz-30MHz | 3301B | EMCO | 3824 | 00068 | II. | | | PR-2007 |
| INDUCTION COIL | 50-60Hz | 1000-4-8 3121C | C-S EMCO | N/A | 00778 | II II | | | EP-2007 |
| ADJUSTABLE DIPOLE ADJUSTABLE DIPOLE | 30-1000MHz 30-1000MHz | 3121C 3121C | EMCO | 1370 1371 | 00757 00756 | II II | | | AR-2007 AR-2007 |
| RE101 LOOP SENSOR | 30Hz-100kHz | RE101-13.3cm | C-S | N/A | 00730 | ii | | | AR-2007 AR-2007 |
| RS101 RADIATING LOOP | 30Hz-100KHz | RS101-12CM | C-S | N/A | 00819 | ii | | | AR-2007 AR-2007 |
| RS101 LOOP SENSOR | 30Hz-100kHz | RS101-4cm | C-S | N/A | 00820 | ii | | | AR-2007 |
| | | | | | | | | | |
| EFT | | MN | MFR | | SN | | ASSET | Сат | CALIBRATION DUE |
| EFT DIRECT COUPLING (| CAP | N/A | C-S | | 01 | | 00794 | II | 06-FEB-2008 |
| ESD GENERATORS | | MN | MFR | SI | N. | ASSET | Сат | | CALIBRATION DUE |
| GREEN | NIC | SG435 | SCHAFFNER | | | 00763 | I | | 02-MAR-2007 |
| RED | | SG435 | SCHAFFNER | | | 00763 | ı I | | 06-JAN-2007 |
| YELLOW | | 930D | ETS | 20 | | 00702 | <u> i </u> | | 18-AUG-2007 |
| | | | | | | | | | |
| BEST EMC-2 M | | | | | | | CALIBRATI | | |
| BLUE 711-1 RED 711-1 | | | | | | . , | | . , |) / 05-AUG-2006 (EFT) PR-2007 (EFT) |
| INED / I I - | I TOU SCHAF | 1 1 200 1 ZZ- | 01400 00023 | , 11 | J 1-1VI. | 111-2007 | (OUNGE / DT | 1) / UI -AF | 1 2001 (LI I) |

| CHAMBERS AND | STRIPLINE | MN | | MFR | | SN | ASSET | Сат | • | CALIBRATION DUE |
|-------------------|-------------|-----------------------------|---------------------|-----------------------------|----------|--------------------|--------------|---------------|---------------------------|--------------------------------|
| RFI 1 CHA | | 3 METER CO | MPACT | PANASHIELI | <u> </u> | N/A | 00797 | II | l . | CALIBRATION DUE 01-MAY-2007 |
| RFI 2 CHA | | 04' x 07' SHIELDIN | | LINDGREN | | 13329 | 00795 | ii | | 30-JUN-2007 |
| RFI 3 STR | | N/A | O O TO LIM | C-S | | N/A | 00796 | iii | | NA |
| ENVIRONMENT | | ECL5 | | B-M-A Inc. | | 2041 | 00029 | I | | 11-JAN-2007 |
| ENVIRONMENT | . , | SGTH-3 | IS | B-M-A Inc. | | 2245 | 00321 | Ĺ | | 11-JAN-2007 |
| | | | | | | | | | | |
| AMPLIFIERS | RANGE | MN | MFR | SN | ASSET | Сат | | | CALIBRAT | TION DUE |
| RED | 0.5-1000MHz | 10W1000B | AR | 18708 | 00032 | II | | | 26-APR-20 | 007 (RFI1) |
| GREEN | 0.5-1000MHz | | AR | 23423 | 00123 | | | | 13-APR-20 | , |
| BLUE | 0.01-250MHz | | AR | 19165 | 00039 | II | | , | , | 2-DEC-2006 (NEBS CRFI) |
| BLACK | 0.01-250MHz | 75A250 | AR | 23411 | 00122 | II | | | | 2-DEC-2006 (NEBS CRFI) |
| ORANGE | 0.01-250MHz | 75A250 | AR | 26827 | 00367 | II | 05-APR- | (| U CRFI) / 1: 01-MAY-20 | 2-DEC-2006 (NEBS CRFI)/ |
| BROWN 150W | 0.1-250MHz | 150A250 | AR | 313454 | RENTAL | Ш | | | 30-JUN-20 | |
| GTC 1-2.6 | 1.0-2.6 GHz | GRF5016A | GTC | 1221 | RENTAL | | | | 18-MA\ | , , |
| HUGHES 10W | 2.0-4.0GHz | 1177H01 | HUGHES | 055 | RENTAL | | | | 18-MA\ | |
| HUGHES 10W | 4.0-8.0GHz | 8010H02F | HUGHES | 240 | RENTAL | | | | 18-MA\ | |
| HUGHES 10W | 8-10.0GHz | 80108 | HUGHES | 138 | RENTAL | | | | 18-MA\ | |
| HP495A | 7.0-10.0GHz | HP495A | HP | 304-00237 | 00086 | Ш | | Ου | | /ICE (SPARE) |
| AUDIO AMP | AUDIO FREQ | MPA-200 | RADIO SHACK | 700438 | NONE | III | | | N/ | , |
| AUDIO AMP | Audio Freq | MPA-200 | RADIO SHACK | 708545 | 00862 | III | | | N/ | A |
| | | | | | | | | | | |
| FIELD | Range | М | N. | MFR | | SN | Ass | eet . | Сат | CALIBRATION DUE |
| PROBES | KANGE | IVI | IN | IVIFR | | SIN | ASS | DE I | CAI | CALIBRATION DUE |
| RED | 0.01-1000N | | | HOLADAY | | 90369 | 000 |)31 | 1 | 01-MAR-2007 |
| GREEN | 0.01-1000N | | | HOLADAY | | 97363 | 001 | | I | 25-JUL-2007 |
| BLUE | 0.01-1000N | 1Hz HI-4 | 422 | HOLADAY | | 95696 | 011 | 00 | ı | 25-MAR-2007 |
| | | | | | | | | | | |
| SIGNAL GENE | | RANGE | MN | MFR | | SN | | ASSET | Сат | |
| RED | | 0.09-2000MHz | HP8648B | HP | | 3847U02 | | 00366 | ! | 28-FEB-2007 |
| BLUE | | 0.1-1000MHz | HP8648A | HP | | 3426A00 | | 00034 | ! | 25-AUG-2006 |
| GREEN ORANG | | 0.09-2000MHz 0.1-1000MHz | HP8648B | HP HP | | 3623A02 | - | 00125 | - ! | 17-OCT-2006 |
| BROWI | | 0.1-1000MHz 0.01Hz-15MHz | HP8648B HP33120A | HP | | 3537A0° US36010 | | 00025 1211 | | 29-JUN-2007 23-NOV-2006 |
| WHITE (N | | 0.01Hz-15MHz | HP33120A | HP | | US3604 | | 1211 | 1 | 10-MAY-2007 |
| BLUE-WH | | 0.1Hz-13MHz | HP3312A | HP | | 1432A07 | | 00775 | i | 11-MAR-2007 |
| SWEEPE | | 0.01-20.0GHz | HP83752A | HP | | 3610A0 | | 00087 | ii | 02-MAY-2007 |
| AM/FM STEREO | | 0.1-170MHz | LG3236 | LEADER | 2 | 36873 | | 00959 | ï | 30-AUG-2006 |
| IMPULSE GENE | | 1-100Hz | CIG-25 | ELECTRO-ME | | 290 | | 00942 | 1 | 05-AUG-2006 |
| | | | | | | | | | | |
| BULK INJECT | ION CLAMPS | RANGE | MN | MFR | SN | ASSET | Сат | | CAL | IBRATION DUE |
| GRE | EN | 0.01-100MHz | 95236-1 | ETS | 50215 | 00118 | II | 05-A | PR-2007 (E | EU) /16-DEC-2006 (NEBS) |
| RE | D | 0.01-100MHz | 95236-1 | ETS | 34026 | 1020 | II | 05-A | PR-2007 (E | EU) /16-DEC-2006 (NEBS) |
| | | | | | | | | | | |
| CDN NET | WORKS | RANGE | | MN | M | FR | ASSET | | Сат | CALIBRATION DUE |
| BLAC | | 0.10-100MHz | 20 <i>A</i> | M-2 (DC) | С | -S | 00783 | | II | OUT OF SERVICE |
| BLUE | ≣ | 0.10-100MHz | 1 | 5A M-3 | С | -S | 00806 | | II | 10-JAN-2007 |
| ORANG | | 0.10-100MHz | 1 | 5A M-2 | С | -S | 00786 | | II | OUT OF SERVICE |
| Red |) | 0.10-100MHz | 1 | 5A M-3 | | -S | 00780 | | II | 10-JAN-2007 |
| WHIT | | 0.10-100MHz | | 5A M-3 | | -S | 00782 | | II | OUT OF SERVICE |
| YELLOW-E | | 0.10-100MHz | | 5A M-3 | | -S | 00784 | | II | 10-JAN-2007 |
| GREE | | 0.10-100MHz | | 80A M-3 | | -S | 00779 | | II | OUT OF SERVICE |
| YELLO | | 0.10-100MHz | | 80A M-5 | | -S | 00804 | | II | 05-APR-2007 |
| BLUE-W | | 0.10-100MHz | 1 | 5A M-5 | | -S | 00788 | | II II | OUT OF SERVICE |
| BROW | | 0.10-100MHz | | M-3 | | -S | 1169 | | II II | 10-JAN-2007 |
| BROWN-V | | 0.10-100MHz | Α. | M-3 | | -S | 1170 | | II II | 10-JAN-2007 |
| Brown-B Red-Bl | | 0.10-100MHz 0.10-100MHz | | 1-2 (DC) | | -S -S | 1171 1177 | | II II | 10-JAN-2007 |
| YELLOW (| | 0.10-100MHZ 0.10-100MHZ | | 1-2 (DC) SISTOR NWK (M-1 | | -S -S | 00810 | | II | 11-MAY-2007 05-OCT-2006 |
| GREEN (| ` ' | 0.10-100MHz | | SISTOR NWK (IVI-T | | -S -S | 1172 | | II | 30-JAN-2007 |
| - CIVILLIA (I | 0, | 3.10 100WHZ | 10022110 | SIGIT TANK (INI. I | , 0 | | 1112 | | | 55 0/ H 2007 |
| ANSI | T1.315 | MN | MFR SN | l As | SET | Ca | Т | | CALIBR | ATION DUE |
| | DISE CART | * | C-S | , 10 | | III | | C.A | | NOT REQUIRED |
| | ISIENT CART | | C-S | | | iii | | | | RIFIED BEFORE USE |
| 220 | | | | | | | | | | |

| OSCILLOSCOPES | MN | | Mfr | | SN | ASSET | Сат | CALIBRATION DU |
|---|--|--|-----------------------------|-------------------------|---|--|--|---|
| EMC 100MHz | TDS 2 | 20 TE | KTRONIX | CO | 036986 | 1166 | ı | 26-AUG-2006 |
| ESD REFERENCE 1GHz | TDS 68 | 34B TE | KTRONIX | BO |)11287 | RENTAL | 1 | 31-MAR-2007 |
| PRODUCT SAFETY 100 MHz | TDS 3 | 40 TE | KTRONIX | BC |)12357 | 00737 | 1 | 06-OCT-2006 |
| TELECOM 100 MHz | 54645 | SA HP | P/AGILENT | US3 | 6320452 | 00103 | ı | 30-JUN-2007 |
| | | | | | | | | |
| RMS VOLTMETERS/CURRENT CLA | AMP | MN | Mnfr | | SN | ASSET | Сат | CALIBRATION DU |
| TRUE-RMS MULTIMETER | | 79111 | FLUKE | 71 | 700298 | 00769 | | 25-OCT-2006 |
| TRUE-RMS MULTIMETER (REFERENCE | CE) | 177 | FLUKE | 83 | 390024 | 00973 | I | 21-MAR-2007 |
| TRUE-RMS MULTIMETER | , | 177 | FLUKE | 833 | 390025 | 00974 | ı | 10-MAR-2007 |
| TRUE-RMS MULTIMETER (TELECOM) |) | 177 | FLUKE | 834 | 430419 | 00975 | I | 21-MAR-2007 |
| | | | | | | | | |
| Surge Generators | | MN | | MFR | SN | ASSET | Сат | CALIBRATION DU |
| TRANSIENT WAVEFORM MONIT | OR | TWM- | -5 | CDI | 003982 | 00323 | II | 05-JUN-2007 |
| Universal Surge Generato | DR . | M5 | | CDI | 003966 | 00324 | II | OUT OF CAL |
| THREE PHASE COUPLING NW | K | 3CN | I | CDI | 003455 | 00325 | II | OUT OF CAL |
| 1.2x50uS Plugin Module | | 1.2x50uS I | PLUGIN | CDI | N/A | 00842 | II | OUT OF CAL |
| 10x160uS Plugin Module | | 10x160uS | PLUGIN | C-S | N/A | 00843 | П | 08-JUN-2007 |
| 10x560uS Plugin Module | | 10x560uS | PLUGIN | C-S | N/A | 00841 | П | 08-JUN-2007 |
| PSURGE CONTROLLER MODUL | I F | PSURGE | 8000 | HAEFELY | 150267 | 00879 | П | 06-JUN-2007 |
| Coupling/Decoupling Modu | | PCD 9 | | HAEFELY | 149213 | 00880 | ii | 06-JUN-2007 |
| IMPULSE MODULE | | PIM 9 | | HAEFELY | 149202 | 00881 | ii | 06-JUN-2007 |
| HIGH VOLTAGE CAP NWK 5KVDC, | 18uF | CS-HV | | C-S | 01 | 00772 | ii | 28-SEP-2006 |
| NEBS Surge Generator | | N/A | | C-S | N/A | 00088 | ii | 06-JUN-2007 |
| 2x10uS Surge Generator | | 2x10L | | C-S | N/A | 00846 | ii | 06-JUN-2007 |
| 10x700uS Surge Generator | | 10x700 | _ | C-S | | 00847 | II II | 08-JUN-2007 |
| 12 PAIR SURGE RESISTOR MOD | | N/A | | C-S | N/A N/A | 00847 | ii Ii | 30-SEP-2006 |
| 12 PAIR SURGE RESISTOR MOD | ULE | IN/A | | U-3 | IN/A | 00700 | II | 30-3EF-2000 |
| Power/Noise Meters | | MN | MFR | | SN | ASSET | Сат | CALIBRATION DUE |
| Power Meter | | 435B | HP | 24 | 45A11012 | 00773 | 1 | 12-APR-2007 |
| Power Meter | | 437B | HP | | 12A01367 | 01099 | i | 12-APR-2007 |
| Power Sensor | | 8481A | HP | | 02A61351 | 00774 | i | 12-APR-2007 |
| PSOPHOMETER | | 04017 | 1 11 | | | | | 12-71 11-2001 |
| TRANSMISSION LINE TESTER (DBRN) | | 2420 | DOUGL & KIAS | -D | | UUEOE | - 11 | 14 EED 2007 |
| TRANSMISSION LINE TESTER (DDRIN | C) | 2429 | BRUEL & KJAE | ER ' | 1237642 | 00585 | II II | 14-FEB-2007 |
| | C) | 2429 185T | BRUEL & KJAE AMREL | ER ' | 998658 | 00585 00823 | II II | 14-FEB-2007 16-MAR-2007 |
| OVERVOLTAGE CHAMBERS | | 185T | | | | 00823 | II | 16-MAR-2007 |
| OVERVOLTAGE CHAMBERS | MN | 185T MFR | | SN | | 00823 ASSET | II CAT | 16-MAR-2007 CALIBRATION DU |
| 72KW POWER FAULT SIMULATOR | MN OV1 | MFR C-S | | SN N/A | | 00823 ASSET 00792 | CAT II | 16-MAR-2007 CALIBRATION DU 31-MAR-2007 |
| | MN | 185T MFR | | SN | | 00823 ASSET | II CAT | 16-MAR-2007 CALIBRATION DU |
| 72KW POWER FAULT SIMULATOR | MN OV1 | MFR C-S C-S | | SN N/A | | 00823 ASSET 00792 | CAT II | 16-MAR-2007 CALIBRATION DU 31-MAR-2007 |
| 72KW POWER FAULT SIMULATOR POWER FAULT SIMULATOR | MN OV1 OV2 | MFR C-S C-S | AMREL | SN N/A | 998658 | 00823 ASSET 00792 00116 | CAT II II | 16-MAR-2007 CALIBRATION DU 31-MAR-2007 31-MAR-2007 |
| 72kW Power Fault Simulator Power Fault Simulator DIPOLE TAPE MEASURES | MN OV1 OV2 | MFR C-S C-S | AMREL | SN N/A | 998658 SN | 00823 ASSET 00792 00116 ASSET | CAT II II | 16-MAR-2007 CALIBRATION DU 31-MAR-2007 31-MAR-2007 CALIBRATION DU |
| 72kW Power Fault Simulator Power Fault Simulator DIPOLE TAPE MEASURES 26ft Tape #1 26ft Tape #2 | MN OV1 OV2 MN 2338C | MFR C-S C-S | MFR LUFKIN LUFKIN | SN N/A N/A | 998658 SN C3166-1 C3166-2 | ASSET 00792 00116 ASSET 00776 00777 | CAT II II CAT I | 16-MAR-2007 CALIBRATION DU 31-MAR-2007 31-MAR-2007 CALIBRATION DU 13-MAR-2007 13-MAR-2007 |
| 72kW Power Fault Simulator Power Fault Simulator DIPOLE TAPE MEASURES 26ft Tape #1 26ft Tape #2 | MN OV1 OV2 MN 2338C 2338C | MFR C-S C-S | MFR LUFKIN LUFKIN | SN N/A N/A | 998658 SN C3166-1 C3166-2 SN | 00823 ASSET 00792 00116 ASSET 00776 00777 | CAT II II CAT I CAT CAT | CALIBRATION DU 31-MAR-2007 31-MAR-2007 CALIBRATION DU 13-MAR-2007 13-MAR-2007 |
| POWER FAULT SIMULATOR POWER FAULT SIMULATOR POWER FAULT SIMULATOR DIPOLE TAPE MEASURES 26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METERS TEMP./HUMIDITY/ATM. PRESSURE GA | MN OV1 OV2 MN 2338C 2338C | MFR C-S C-S I ME MME MN MN 400 PERCEPTION I | MFR LUFKIN LUFKIN D | SN N/A N/A | 998658 SN C3166-1 C3166-2 SN N/A | 00823 ASSET 00792 00116 ASSET 00776 00777 ASSET 00965 | CAT II II CAT I I CAT I I II II | 16-MAR-2007 CALIBRATION DU 31-MAR-2007 31-MAR-2007 CALIBRATION DU 13-MAR-2007 13-MAR-2007 CALIBRATION DU 08-FEB-2007 |
| POWER FAULT SIMULATOR POWER FAULT SIMULATOR DIPOLE TAPE MEASURES 26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METERS | MN OV1 OV2 MN 2338C 2338C | MFR C-S C-S ME ME ME THG-912 | MFR LUFKIN LUFKIN D | SN N/A N/A | 998658 SN C3166-1 C3166-2 SN | 00823 ASSET 00792 00116 ASSET 00776 00777 ASSET 00965 00789 | CAT II II CAT I CAT CAT | 16-MAR-2007 CALIBRATION DU 31-MAR-2007 31-MAR-2007 CALIBRATION DU 13-MAR-2007 13-MAR-2007 CALIBRATION DU 08-FEB-2007 01-FEB-2007 |
| POWER FAULT SIMULATOR POWER FAULT SIMULATOR POWER FAULT SIMULATOR DIPOLE TAPE MEASURES 26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METERS TEMP./HUMIDITY/ATM. PRESSURE GA | MN OV1 OV2 MN 2338C 2338C | MFR C-S C-S I ME MME MN MN 400 PERCEPTION I | MFR LUFKIN LUFKIN HU HU | SN N/A N/A | 998658 SN C3166-1 C3166-2 SN N/A | 00823 ASSET 00792 00116 ASSET 00776 00777 ASSET 00965 | CAT II II CAT I I CAT I I II II | 16-MAR-2007 CALIBRATION DU 31-MAR-2007 31-MAR-2007 CALIBRATION DU 13-MAR-2007 13-MAR-2007 CALIBRATION DU 08-FEB-2007 |
| POWER FAULT SIMULATOR POWER FAULT SIMULATOR POWER FAULT SIMULATOR DIPOLE TAPE MEASURES 26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METERS TEMP./HUMIDITY/ATM. PRESSURE GA TEMPERATURE /HUMIDITY GAUGE WEATHER CLOCK (PRESSURE ONLY | MN OV1 OV2 MN 2338C 2338C | MFR C-S C-S I ME ME MN 400 PERCEPTION I THG-912 BA928 | MFR LUFKIN LUFKIN HU OREGON | SN N/A N/A | SN C3166-1 C3166-2 SN N/A 4000562 C3166-1 | ASSET 00792 00116 ASSET 00776 00777 ASSET 00965 00789 00831 | CAT II II CAT I I II I | 16-MAR-2007 CALIBRATION DU 31-MAR-2007 31-MAR-2007 CALIBRATION DU 13-MAR-2007 13-MAR-2007 CALIBRATION DU 08-FEB-2007 01-FEB-2007 02-FEB-2007 |
| 72kW Power Fault Simulator Power Fault Simulator Power Fault Simulator Dipole Tape Measures 26ft Tape #1 26ft Tape #2 METEOROLOGICAL METERS Temp./Humidity/Atm. Pressure Ga Temperature /Humidity Gauge Weather Clock (Pressure Only | MN OV1 OV2 MN 2338C 2338C 2338C Y) SPI | MFR C-S C-S I ME ME MB MN 400 PERCEPTION I THG-912 BA928 | MFR LUFKIN LUFKIN HU OREGON | SN N/A N/A N/A | SN C3166-1 C3166-2 SN N/A 4000562 C3166-1 | ASSET 00792 00116 ASSET 00776 00777 ASSET 00965 00789 00831 ASSET | CAT II II CAT I I CAT I I CAT I CAT I CAT | 16-MAR-2007 CALIBRATION DU 31-MAR-2007 31-MAR-2007 CALIBRATION DU 13-MAR-2007 13-MAR-2007 CALIBRATION DU 08-FEB-2007 01-FEB-2007 02-FEB-2007 CALIBRATION DU |
| ZEKW POWER FAULT SIMULATOR POWER FAULT SIMULATOR DIPOLE TAPE MEASURES 26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METERS TEMP./HUMIDITY/ATM. PRESSURE GA TEMPERATURE /HUMIDITY GAUGE WEATHER CLOCK (PRESSURE ONL) | MN OV1 OV2 MN 2338C 2338C | MFR C-S C-S ME ME ME MS 400 PERCEPTION I THG-912 BA928 EC. BM/KG | MFR LUFKIN LUFKIN HU OREGON | SN N/A N/A N/A | SN C3166-1 C3166-2 SN N/A 4000562 C3166-1 | ASSET 00792 00116 ASSET 00776 00777 ASSET 00965 00789 00831 | CAT II II CAT I I II I | 16-MAR-2007 CALIBRATION DU 31-MAR-2007 31-MAR-2007 CALIBRATION DU 13-MAR-2007 13-MAR-2007 CALIBRATION DU 08-FEB-2007 01-FEB-2007 02-FEB-2007 |

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



Jurisdictional Labeling and Required Instruction Manual Inserts

FCC Requirements

Required Equipment Authorization for Device Type

| Type of Device | Equipment Authorization Required |
|---|--|
| TV broadcast receiver | Verification |
| FM broadcast receiver | Verification |
| CB receiver | Declaration of Conformity or Certification |
| Superregenerative receiver | Declaration of Conformity or Certification |
| Scanning receiver | Certification |
| All other receivers subject to part 15 | Declaration of Conformity or Certification |
| TV interface device | Declaration of Conformity or Certification |
| Cable system terminal device | Declaration of Conformity |
| Stand-alone cable input selector switch | Verification |
| Class B personal computers and peripherals | Declaration of Conformity or Certification |
| CPU boards and internal power supplies used | |
| with Class B personal computers | Declaration of Conformity or Certification |
| Class B personal computers assembled using | |
| authorized CPU boards or power supplies | Declaration of Conformity |
| Class B external switching power supplies | Verification |
| Other Class B digital devices & peripherals | Verification |
| Class A digital devices, peripherals & external | |
| switching power supplies | Verification |
| All other devices | Verification |

FCC Required labeling for Verified Devices 47 CFR Part 15.19

Verified devices must have the following label permanently affixed in a location accessible to the user:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

No distinction is made between Class A or Class B devices on the label.

When the device is so small or for such use that it is not practicable to place label on it, the information may be shall be placed in a prominent location in the instruction manual supplied to the user or, alternatively, shall be placed on the container in which the device is marketed.

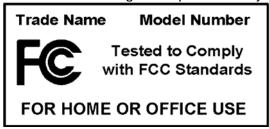
Where a device is constructed in two or more sections connected by wires and marketed together, the label is only required to be affixed to the main control unit.

ACCREDITED
Cert No. 1627-01

FCC Required labeling for Class B Personal Computers and Peripherals Devices 47 CFR Part 15.19 subject to Declaration of Conformity

Personal computers and peripherals subject to authorization under a Declaration of Conformity shall be labeled as follows:

- (1) The label shall be located in a conspicuous location on the device and shall contain the unique identification described in Section 2.1074 and the following logo:
- (i) If the product is authorized based on testing of the product or system:



(ii) If the product is authorized based on assembly using separately authorized components and the resulting product is not separately tested:

Trade Name Model Number

Assembled From
Tested Components
(Complete System Not Tested)

FOR HOME OR OFFICE USE

- (2) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (b)(1) of this section on it, such as for a CPU board or a plug-in circuit board peripheral device, the text associated with the logo may be placed in a prominent location in the instruction manual or pamphlet supplied to the user. However, the unique identification (trade name and model number) and the logo must be displayed on the device.
- (3) The label shall not be a stick-on, paper label. The label on these products shall be permanently affixed to the product and shall be readily visible to the purchaser at the time of purchase, as described in Section 2.925(d). "Permanently affixed" means that the label is etched, engraved, stamped, silk-screened, indelibly printed, or otherwise permanently marked on a permanently attached part of the equipment or on a nameplate of metal, plastic, or other material fastened to the equipment by welding, riveting, or a permanent adhesive. The label must be designed to last the expected lifetime of the equipment in the environment in which the equipment may be operated and must not be readily detachable.

FCC Required Instruction Manual Inserts CFR 47 Part 15.21 and 15.105

The user's manual must caution the user that changes or modifications not expressly approved by the manufacturer could void the user's FCC granted authority to operate the equipment. In addition the following information should be inserted:

(a) For a Class A digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: this equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

(b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- (c) The provisions of paragraphs (a) and (b) of this section do not apply to digital devices exempted from the technical standards under the provisions of § 15.103.
- (d) For systems incorporating several digital devices, the statement shown in paragraph (a) or (b) of this section needs to be contained only in the instruction manual for the main control unit.



August 15, 2006 FCC ID: TWG-SDCCF10G IC ID: 6616A-SDCF10G

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
- 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.
- 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

D. 1WG-GDGG110G

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: July 31, 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 Companionity (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*; Voltage Dips*: Interrupts and Voltage Variations testing*; Magnetic Immunity testing*: RF Power measurements*; Frequency Stability Measurements*: Longitudinal Induction measurements*: Armonic 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; ENS5022; SABS CISPR 22; AS/NZS CISPR 22; AS/NZS 3548; Canada ICES- 003; CNS13438; KN 22 (RRL No. 2005-82, September 29; 2005); CISPR 11; EN 55011; SABS CISPR 11; AS/NZS CISPR 11; AS/NZS 2064; Canada ICES-001: CNS13803; CISPR 13; EN 55013; SABS CISPR 13; AS/NZS CISPR 13; AS/NZS 1053; CISPR 14-1; EN 55014-1; SABS CISPR 14; AS/NZS CISPR 14; AS/NZS 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 |

I 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 "A2L4 Apecific 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 Frequency Conducted Disturbances | EN 61000-2-2 |

August 15, 2006

| Family Product or Industry Specific Specifications including emissions and/or immunity | GR-1089-CORE; GR-78-CORE (ESD) EN50081-1; EN50081-2; EN50082-2; EN50082-1; 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 501304-1; EN 50083-2; EN 606011-2-2; EN 60601-2-2; EN 60601-2-24; EN 60601-3-23; EN 60001-2-3; EN 60601-2-47; IEC 1800-3; EN 61800-3; EN 60601-2-20; EN 60001-2-20; EN 60001 |
|--|--|
| | EN 60555 Part 3; ETS 300 386-1; EN 300 386-2; EN 300 386, ETS 300 132-1; ETS 300 132-2; EN 60669-2-1; AS/NZS 3200.1.2; CNS 13783-1; ETR 283; C62.41 |
| 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-182; RSS-187; RSS-188; RSS-191; RSS-192; 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); |

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| Other Ra | dio Standards | RTTE 01 (DGT-Taiwan); | |
|----------|-------------------------------------|-----------------------|--|
| | ndards and Test methods Suppor | | |
| FCC Scop | pe A – Unlicensed Radio Frequency | Devices | |
| A1 | 1. 47 CFR Parts 11, 15 and | 18 | |
| | 2. FCC MP-5, | | |
| | 3. ANSI C63.4-2003, | | |
| A2 | 1. 47 CFR Part 15, | | |
| | 2. 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, | | |
| | 2. ANSI C63.4-2003, | | |
| FCC Scop | pe B – Licensed Radio Service Equi | pment | |
| B1 | 1. 47 CFR Parts 2, 22, 24, 2 | 25, and 27 | |
| | 2. ANSI/TIA-603-C (2004) | l . | |
| B2 | 1. 47 CFR Parts 2, 22, 74, 9 | 00, 95, and 97 | |
| | 2. ANSI/TIA-603-C (2004) | 1 | |
| B3 | 1. 47 CFR Parts 2, 80, and | 87 | |
| | 2. ANSI/TIA-603-C (2004) | 1 | |
| B4 | 1. 47 CFR Parts 2, 21, 74, a | and 101 | |
| | 2. ANSI/TIA-603-C (2004) | ı | |

| Country Specific Standards and Other | |
|--|--|
| 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/SABS CISPR 11; SANS 224/SABS CISPR 24; SANS 213/SABS CISPR 13; SANS 2200; SANS214-1/SABS CISPR 14-1; SANS214-SABS CISPR 14-2; SANS 215/SABS CISPR 15; 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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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 | <u>Ti</u> |
|--------------|-----------|
|--------------|-----------|

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 Analogue interworking and non-interference requirements for Customer Equipment for connection to the Public Switched Telephone Network Requirements for Customer Equipment for AS/ACIF S002-2001 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 HKTA 2014 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 | | | |
|---|--|--|--|
| | Title | European standards (cont'd) | m - 1 m |
| 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 |
| 11K1A 2030 | Customer Premises Equipment (CPE) to the Public | TBR 24: 1997 | Business TeleCommunications (BTC); 34 Mbit/s |
| | Telecommunications Network (PTN) in Hong Kong using | | 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 Customer Premises Equipment (CPE) to the Public | Taiwan standards (DGT) | Terminal equipment interface |
| | Telecommunications Network (PTN) in Hong Kong using | ADSL01 | Asymmetric Digital Subscriber Line Terminal Equipment and |
| | Digital Leased Circuits below 64 kbit/s | | 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 Telecommunications Networks in Hong Kong using | IS6100 PSTN01 (non-voice only) | ISDN Terminal Equipment Technical Specifications Technical Specifications for Terminal Equipment for |
| | Asymmetric Digital Subscriber Lines (ADSL) based on ITU-T | 131Not (non-voice only) | Connection to Public Switched Telephone Network |
| | Recommendation G.992.1 | New Zealand standards | • |
| HKTA 2033 | Network Connection Specification for Connection of | PTC 200 (non-voice only) | Requirements for Connection of Customer Equipment to |
| | Customer Premises Equipment (CPE) to Fixed Telecommunications Networks in Hong Kong using | PTC 217 | Analogue Lines 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 | And I was a street of the street of | g: g. 1 1 | |
| TBR 1: 1995 | Attachment requirements for terminal equipment to Be connected to circuit switched data networks and | Singapore Standards IDA TS ADSL | Type Approval Specification for Asymmetric Digital |
| | Leased circuits using a CCITT Recommendation | IDA 13 ADSL | 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 | IDA TO DI ON I | Subscriber Line Splitterless (G-Lite) Modems |
| | Recommendation X.21 but operating at any data signaling rate up to, and including, 1 984 kbit/s | IDA TS DLCN 1 | Type Approval Specification for Digital Interfaces based on hierarchical bit rates of 2048 kbit/s, 34 368 kbit/s and 139 264 |
| TBR 2: 1997 | Attachment requirements for Data Terminal | | kbit/s |
| | 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 rates up to 1 920 kbit/s utilizing interfaces derived | IDA TS ISDN 2 | Basic Access Type Approval Specification for connection of Terminal |
| | from CCITT Recommendations X.21 and X.21 bit | IDA 13 ISDN 2 | Equipment to Integrated Services Digital Network (ISDN) |
| TBR 3: 1995 + Amdt : 1997 | Integrated Services Digital Network (ISDN); | | Primary Rate Access (PRA) |
| | Attachment requirements for terminal equipment to | IDA TS PSTN (non-voice only) | Type Approval Specification for connection of Terminal |
| TBR 4: 1995 + Amdt : 1997 | connect to an ISDN using ISDN basic access Integrated Services Digital Network (ISDN); | South Africa standards | Equipment to Public Switched Telephone Network (PSTN) |
| 13K 1. 1993 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Attachment requirements for terminal equipment to | TE-001 (non-voice only) | Standard for Telecommunication Line Terminal Equipment |
| | 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 requirements for terminal equipment interface | | |
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| <u> </u> | | , , , | |
| Product Safety | | Product Safety Standards | Trid. |
| | | | |
| | | | Title Classification requirements and user's guide |
| General test methods: | sibility*, Permissibly limits*, Energy hazard | IEC 60825-1 2001 | Classification, requirements and user's guide. |
| General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L | .imited current*, Capacitor Discharge / voltage | IEC 60825-1 2001 IEC 60825-2 2000-5 | Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems |
| General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin | imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 | 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 |
| General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E | imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 | 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 |
| General test methods: Power input", Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impu | imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, slase*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1997 & AM 12 – 1997) | 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 |
| General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTD*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impu flame*, Needle flame*, Hot flaming oil*, Locke | imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding 3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 | 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 |
| General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTD*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Locke Torque*, Insulation resistance*, Sound level*, I | imited current*. Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ss*, Battery reverse current*, Ball pressure*, Leakage current*, alse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm drotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, landle loading*, Liquid overflow*, Spillage*, Liquid leakage*, | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 | 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 |
| General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Locke Torque*, Insulation resistance*, Sound level*, I Transformer shorts/overloads*, Rain test*, 1000. | imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, slase*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, łandle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Imount*, Laser radiation (excluding x-ray)*, Voltage surge*, | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1994 CAN/CSA E335-1 1994 | 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 |
| General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTD*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impu flame*, Needle flame*, Hot flaming oil*, Locke Torque*, Insulation resistance*, Sound level*, I Transformer shorts/overloads*, Rain test*, Wall Functionality*, Protective impedance abnormal* | imited current*. Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ss*, Battery reverse current*, Ball pressure*, Leakage current*, alse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm drotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, landle loading*, Liquid overflow*, Spillage*, Liquid leakage*, | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 CIncluding AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 | 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 |
| General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTIP*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impl flame*, Needle flame*, Hot flaming oil*, Locke Torque*, Insulation resistance*, Sound level*, I Transformer shorts/overloads*, Rain test*, Mal Functionality*, Protective impedance abnormal* supply abnormal*, Cooling abnormal*, Heating | imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, slse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, łandle loading*, Liquid overflow*, Spillage*, Liquid leakage*, lomount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1994 CAN/CSA E335-1 1994 | 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 |
| General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impu flame*, Needle flame*, Hot flaming oil*, Locke Torque*, Insulation resistance*, Sound level*, I Transformer shorts/overloads*, Rain test*, Wall Functionality*, Protective impedance abnormal* | imited current*. Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thur Insulation (excluding 3nd/Earthing*, Ground continuity*, Temperature*, Stability*, ses*, Battery reverse current*. Ball pressure*, Leakage current*, alse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm de rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, +andle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 CIncluding AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 | 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 |
| General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impuflame*, Needle flame*, Hot flaming oil*, Locke Torque*, Insulation resistance*, Sound level*, I, Transformer shorts/overloads*, Rain test*, Wall Functionality*, Protective impedance abnormal* supply abnormal*, Cooling abnormal*, Heating Product Safety Standards | imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, slse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, łandle loading*, Liquid overflow*, Spillage*, Liquid leakage*, lomount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 CIncluding AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 | 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 |
| General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Locke Torque*, Insulation resistance*, Sound level*, I Transformer shorts/overloads*, Rain test*, Walf Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 | imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thu Insulation (excluding bond/Earthing*, Ground continuity*, Temperature*, Stability*, sse*, Battery reverse current*, Ball pressure*, Leakage current*, slase*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm de rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, landle loading*, Liquid overflow*, Spillage*, Liquid leakage*, l mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 | 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 test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTD*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wall Functionality*, Protective impedance abnormal* supply abnormal*, Cooling abnormal*, Heating Product Safety Standards Specific Product Safety Standards UL 60950 2000 UEC 60950 1999 | imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding 3 ndd/Earthing*, Ground continuity*, Temperature*, Stability*, ss*, Battery reverse current*, Ball pressure*, Leakage current*, alse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm drotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, landle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Imount*, Laser radiation (excluding x-ray)*, Voltage surge*, **, Capacitor short circuit abnormal*, Output abnormal*, Multi- device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 | 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 |
| General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, I, Transformer shorts/overloads*, Rain test*, Walf Functionality*, Protective impedance abnormal* supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1999 IEC 60950 1999 IEN 60950 2000 | imited current*, Capacitor Discharge (voltage g*, Creepage, Clearance (Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, Isale*, Overvoltage*, Acoustic sound pressure*, 130mm/20mm de rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Ilmount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multidevice abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 | 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 |
| General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTD*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wall Functionality*, Protective impedance abnormal* supply abnormal*, Cooling abnormal*, Heating Product Safety Standards Specific Product Safety Standards UL 60950 2000 UEC 60950 1999 | imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding 3 ndd/Earthing*, Ground continuity*, Temperature*, Stability*, ss*, Battery reverse current*, Ball pressure*, Leakage current*, alse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm drotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, landle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Imount*, Laser radiation (excluding x-ray)*, Voltage surge*, **, Capacitor short circuit abnormal*, Output abnormal*, Multi- device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 | 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 |
| General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Locke Torque*, Insulation resistance*, Sound level*, I Transformer shorts/overloads*, Rain test*, Wall Functionality*, Protective impedance abnormal* supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 | imited current*, Capacitor Discharge (voltage g*, Creepage, Clearance (Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sss*, Battery reverse current*, Ball pressure*, Leakage current*, Isale*, Overvoltage*, Acoustic sound pressure*, 130mm/20mm de rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Ilmount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multidevice abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 CINCINION AMP - 1997 & AM 12 – 1997) EN 60335-1 1995 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 | 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 Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements |
| General test methods: Power input", Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground F Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, I Transformer shorts/overloads*, Rain test*, Walf Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 | imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ss*, Battery reverse current*, Ball pressure*, Leakage current*, slase*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm el rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, landle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, **, Capacitor short circuit abnormal*, Output abnormal*, Multi- 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. | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 | 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 |
| General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Locke Torque*, Insulation resistance*, Sound level*, I Transformer shorts/overloads*, Rain test*, Wall Functionality*, Protective impedance abnormal* supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 12000 IEC 60950 1909 EN 60950 12001 UL 60950-1 2001 UL 60950-1 2003 USA C22.2 No. 60950-00 | imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sse*, Battery reverse current*, Ball pressure*, Leakage current*, slase*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm de rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, landle loading*, Liquid overliow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- 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, | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 1997-11 21 CFR 1040.10 IEC 60335-1 1995 CINCLUMEN AM2 - 1997 & AM 12 - 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-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 | 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 |
| General test methods: Power input", Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impuflame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, I Transformer shorts/overloads*, Rain test*, Wall Functionality*, Protective impedance abnormal* supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEE 60950 2000 IEE 60950 1099 EN 60950 2000 IEE 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 | imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sse*, Battery reverse current*, Ball pressure*, Lakage current*, slse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm drotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, landle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment for measurement, control and laboratory use, Part 1: General requirements. | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 CINCINION AMP - 1997 & AM 12 – 1997) EN 60335-1 1995 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 | Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 2: 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 Medical Electrical Equipment - Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General |
| General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTJ*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, I Transformer shorts/overloads*, Rain test*, Wall Functionality*, Protective impedance abnormal* supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 EEC 60950 1099 EN 60950 2000 EEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 3 IEC 61010-1 1993 EN 61010-1 1993, 2001 EEC 61010-1 2001 | imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ss*, Battery reverse current*, Ball pressure*, Leakage current*, alse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm drotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, landle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, **. Capacitor short circuit abnormal*, Autitidevice 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. | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-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 | 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 Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety |
| General test methods: Power input", Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound levels*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal* supply abnormal*. Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1999 IEC 60950-1909 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001 | imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ss*, Battery reverse current*, Ball pressure*, Leakage current*, lase*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm el rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, landle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology 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. | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 1997-11 21 CFR 1040.10 IEC 60335-1 1995 CINCLUMEN AM2 - 1997 & AM 12 - 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-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 | 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 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 |
| General test methods: Power input", Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Locke, Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wall Functionality*, Protective impedance abnormal* supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 EEC 60950 1099 EN 60950 2000 EEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 3 EC 61010-1 1993 EN 61010-1 1993, 2001 EEC 61010-1 1901 | imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thur Insulation (excluding 3 ond/Earthing*, Ground continuity*, Temperature*, Stability*, ses*, Battery reverse current*, Ball pressure*, Leakage current*, alse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm de rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, landle loading*, 'Liquid overlow*, Spillage*, 'Liquid leakage*, Imount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, 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. Electrical equipment for laboratory use Part 1: General | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-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 | 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 Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Safety - Section 1-1. Collateral |
| General test methods: Power input", Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound levels*, Transformer shorts/overloads*, Rain test*, Wal Functionality*, Protective impedance abnormal* supply abnormal*. Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1999 IEC 60950-1909 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001 | imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ss*, Battery reverse current*, Ball pressure*, Leakage current*, lase*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm el rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, landle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology 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. | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-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 | 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 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 Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Standard: Safety Requirements For Medical Electrical Systems |
| General test methods: Power input", Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, I Transformer shorts/overloads*, Rain test*, Walf Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards L 60950 2000 IEC 60950 2000 IEC 60950 12003 UL 60950 12003 USA 622.2 No. 60950-00 CSA 622.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995 | imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ss*, Battery reverse current*, Ball pressure*, Leakage current*, slase*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm drotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, landle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, **, Capacitor short circuit abnormal*, Output abnormal*, Multi- 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. 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. | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-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 | 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 Linformation 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 I: Collateral Standard: Safety Requirements For Safety Bection 1-1. Collateral Standard: Safety Requirements For Medical Electrical Electrical Eguipment - Part 1: General Requirements For Safety — Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety |
| General test methods: Power input*, Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground F Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, If Transformer shorts/overloads*, Rain test*, Walf Functionality*, Protective impedance abnormal* supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1999 IEC 60950 1999 IEC 60950 1900 IEC 60950 1900 IEC 60950-1 2001 UL 60950 1 2001 UL 60950 1 2001 UL 60950 1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1903 IEC 61010-1 1903 IEC 61010-1 1903 IEC 61010-1 1909 IEC 60601-1 1995 (Including AM 2) | imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thur Insulation (excluding 3 fond/Earthing*, Ground continuity*, Temperature*, Stability*, sse*, Battery reverse current*, Ball pressure*, Leakage current*, alse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm d rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, 'Liquid overflow*, Spillage*, 'Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- 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. 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. Part 1: General requirements for Safety. Medical electrical equipment. | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1995 CINCULUID AM2 - 1997 & AM 12 – 1997) EN 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: 2003 IEC 60601-1-1: 2000 EN 60601-1-1: 2000 | Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 2: 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 – Section 1-1. General Requirements For Safety 1: Collateral Standard: Safety Reduirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Standard: Safety Requirements for Safety – Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Standard: Safety Requirements for Safety – Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Standard: Safety Requirements of Safety – Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus – Safety Requirements |
| General test methods: Power input", Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, I Transformer shorts/overloads*, Rain test*, Walf Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards L 60950 2000 IEC 60950 2000 IEC 60950 12003 UL 60950 12003 USA 622.2 No. 60950-00 CSA 622.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995 | imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thru Insulation (excluding 3nd/Earthing*, Ground continuity*, Temperature*, Stability*, ss*, Battery reverse current*, Ball pressure*, Leakage current*, alse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm drotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, -landle loading*, Liquid overflow*, Spillage*, Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, **. Capacitor short circuit abnormal*, Aulti- device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title 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. Electrical equipment for laboratory use Part 1: General requirements. Medical electrical equipment. Part 1: General requirements for safety. Medical electrical equipment Medical electrical equipment Medical electrical equipment Medical electrical equipment Part 1: General Requirements | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 1997-11 21 CFR 1040.10 IEC 60335-1 1995 CINCLUDIA MAZ - 1997 & AM 12 - 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-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: 2003 IEC 60601-1-1: 2000 EN 60601-1-1: 2000 | 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 Medical Electrical Equipment - Part 1: General Requirements For Safety Sequirements 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 Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements for Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus – Safety Requirements |
| General test methods: Power input", Permanence of marking*, Access measurement*, SELV circuits*, TNV limits*, L limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground E Applied force*, Steel sphere impact*, Mold stre Component abnormal*, Electric strength*, Impt flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, If Transformer shorts/overloads*, Rain test*, Walf Functionality*, Protective impedance abnormal* supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 1909 IEC 60950 1909 IEC 60950 1900 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-103 IEC 61010-1 1903 IEC 61010-1 1993, 2001 IEC 61010-1 1903 IEC 61010-1 2001 UL 61010-1 1993, 2001 IEC 6601-1 1995 IEC 60601-1 1995 (Including AM 2) | imited current*, Capacitor Discharge / voltage g*, Creepage / Clearance / Distance thur Insulation (excluding 3 fond/Earthing*, Ground continuity*, Temperature*, Stability*, sse*, Battery reverse current*, Ball pressure*, Leakage current*, alse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm d rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, 'Liquid overflow*, Spillage*, 'Liquid leakage*, I mount*, Laser radiation (excluding x-ray)*, Voltage surge*, *, Capacitor short circuit abnormal*, Output abnormal*, Multi- 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. 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. Part 1: General requirements for Safety. Medical electrical equipment. | IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1995 CINCULUID AM2 - 1997 & AM 12 – 1997) EN 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: 2003 IEC 60601-1-1: 2000 EN 60601-1-1: 2000 | Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 2: 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 – Section 1-1. General Requirements For Safety 1: Collateral Standard: Safety Reduirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Standard: Safety Requirements for Safety – Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Standard: Safety Requirements for Safety – Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Standard: Safety Requirements of Safety – Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus – Safety Requirements |
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| Test Technology Accessibility* Acoustic Noise* Airborne Contaminants Altitude Cold Start* Drip Drops* Dust Firearms Resistance Testing Fire Resistance Heat Dissipation* Illumination Operational Temperature & Humidity (OpTH)* | Test Standard IEC 60529 GR-63-CORE Sec 4.6 GR-63-CORE Sec 4.5 GR-63-CORE Sec 4.1.3 ETS 300 019 IEC 60529 GR-63-CORE Sec 4.3 IEC 60529 GR-487 ANSLT1.319 GR-63-CORE Sec 4.2 GR-63-CORE Sec 4.1.4 GR-63-CORE Sec 4.7 ETS 300 019 | Supporting Standards IP-0x thru IP-6x MFG & Hygroscopic Dust IEC 60068-2-1 IP-x1 & IP-x2 IEC 60068-2-32 IP-5x & IP-6x Fire & Needle Flame IEC 60068-2-1 | Note 1. For standards or methods listed on the scope of accreditation without a revision date, laboratories a expected to be competent in the use of the current version within one year of the date of publication of the standard test method originator when the originator implementation authority. When a superseded standard or method is required for an accredited test, the sco will include the superseded date/version. For those that support the TCB/CB status of the organization actin as a certifier on behalf of the FCC or IC the expectation is currency within 30 days of Federal Register publication of changes for FCC and 30 days after IC website update. This note shall not be construed as an Accreditation Body implication to adopt a more current standard than is required in a regulation or code (i.e. the legal requirement) which is adopted by the lab under their responsibility. * On-site test service is available for this technology, test, or method. |
|---|--|---|---|
| | GR-63-CORE Sec 4.1.2 | IEC 60068-2-2 IEC 60068-2-14 IEC 60068-2-56 | |
| Salt Fog & Spray | ASTM B117 | | |
| Spatial* | GR-63-CORE Sec 2.0 & 3.0 | | |
| Spraying-Splashing Storage (Temperature & Humidity)* | IEC 60529 ETS 300 019 | IP-x3 & IP-x4 IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-14 IEC 60068-2-30 IEC 60068-2-56 | |
| Vibration | GR-63-CORE Sec 4.1.1 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 & | |
| Water Immersion Water Jet | GR-63-CORE Sec 4.4 IEC 60529 IEC 60529 | Transportation IP-x7 & IP-x8 IP-x5 & IP-x6 | |
| 2LA Cert. No. 1627.01) 3/27/06 | | Page 9 of 10 | (A2LA Cert. No. 1627.01) 3/27/06 Page 10 of |