



**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART C REQUIREMENT
FOR
EAS SYSTEM**

MODEL NAME: WGPRG58; WGUNG58

FCC ID: P9I-WG58PUG

Prepared For
**WG SECURITY PRODUCTS, INC
3031 TISCH WAY, STE 602
SAN JOSE, CA 95128
USA**

Prepared By
**COMPLIANCE CERTIFICATION SERVICES
561F MONTEREY ROAD
MORGAN HILL CA 95037
USA**

**Report No.: 03U2265-1
Revision A
Date: April 19, 2004**



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Verification Of Compliance

COMPANY NAME: WG SECURITY PRODUCTS, INC.
3031 TISCH WAY, STE 602
SAN JOSE, CA 95128, USA

CONTACT PERSON: Graham Handyside / Vice President

TELPHONE NO: (408) 241-8070

MODEL NAME: WGPRG58; WGUNG58

MODEL DIFFERENCE: WGPRG58 is a dual pedestal Electronic Article Surveillance system and WGUNG58 is a single pedestal Electronic Article Surveillance system. Electronically they are identical. Their RF sections are the same as well as their enclosures.

DATE TESTED: April 6-7, 2004

| LIMIT APPLY TO : FCC PART 15 SECTION 15.209 | |
|--|-------------------------|
| TECHNICAL LIMITS | TEST RESULT |
| Radiated Emission | No non-compliance noted |
| LIMIT APPLY TO : FCC PART 15 SECTION 15.207 | |
| AC Line Conducted Emission | No non-compliance noted |

The above equipment was tested by Compliance Engineering Services Inc. for compliance with the requirement set forth in the requirements of CFR 47 PART 15 SUBPART C. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

Tested By: 
FRANK IBRAHIM
EMC SUPERVISOR
COMPLIANCE CERTIFICATION SERVICES

Approved & Released For CCS By: 
THU CHAN
EMC SUPERVISOR
COMPLIANCE CERTIFICATION SERVICES

SECTION 1 LABORATORY INFORMATION

1.1 General Condition:

This report contains an assessment of an apparatus against Electromagnetic Interference Technical Requirements based upon tests carried out on the samples submitted.

With regard to this assessment, the following points should be noted:

- a) The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties. And reports conditions under which testing was conducted and results of tests performed. This document may not be altered or revised in any way unless done so by Compliance Certification Services and all revisions are duly noted in the revisions section.
- b) The apparatus was set up and exercised using the configurations, modes of operation and arrangements defined in this report only.
- c) Where relevant, the apparatus was only assessed using the susceptibility criteria defined in this report.
- d) All testing was performed under the following environmental conditions:

- Temperature 15°C to 35°C (54°F to 95°F)
- Atmospheric Pressure 860mbar to 1060mbar (25.4" to 31.3")
- Humidity 10% to 75%

1.2 Measurement Facilities

Compliance Certification Services
561F Monterey Road
Morgan Hill CA 95037
USA
Tel: (408)463-0885, Fax: (408)463-0888

1.3 Laboratory Accreditations and Listings

The open area test sites and conducted measurement facilities used to collect data are located at 561F Monterey Road, Morgan Hill, California, USA. The sites are constructed in conformance with the requirements of ANSI C63.4, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.



No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government.

1.4 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| Radiated Emission | |
|--------------------------------------|-------------|
| 30MHz – 200 MHz | +/- 3.3dB |
| 200MHz – 1000MHz | +4.5/-2.9dB |
| > 1000MHz | +3.5/-2.2dB |
| Power Line Conducted Emission | |
| 150kHz – 30MHz | +/-2.9 |

Any results falling within the above values are deemed to be marginal.

1.5 Deviation from measurement specification

Not Applicable

1.6 Measurement Instrument Calibration

The measuring equipment which were utilized in performing the tests documented herein has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment which is traceable to recognized national standards.

SECTION 2 PRODUCT INFORMATION

2.1 Product Description:

The label and tag checker is an Electronic Article Surveillance system that works with any 58kHz tags or labels. The system transmits 1.6mS wide modulated signal of 58kHz, then open a 1.6mS wide listening window to detect the rings from labels in the detection zones, two or more times validations will trigger system alarm. The whole cycle is 60mS.

2.2 Power Requirements

| | | |
|----------------------|------------------------------------|--------------------|
| AC | N/A | |
| DC | N/A | |
| Battery Power | N/A | |
| AC-DC Adaptor | Input: 110VAC, 60Hz / 220VAC, 50Hz | Output: 2 X 10 VDC |

2.3 Local Osc. Or Crystal:

| Board Name | Local Osc. / Crystal (MHz) |
|----------------------|------------------------------------|
| Main | 22.11 MHz, 3.712 MHz |
| Communication | N/A |

2.4 Serial Number

Not Applicable

SECTION 3 TEST SUMMARY

3.1 Applicable Electromagnetic Interference Requirements:

| Radiated Emission Technical Requirements 15.209 | | |
|--|--------------------------------------|----------------------------------|
| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
| 0.009-0.490 | 2400/F(KHz) | 300 |
| 0.490-1.705 | 24000/F(KHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

| Conducted Emission Technical Requirements 15.207 | | |
|---|---------------------------------|------------------------------|
| Frequency Range | FCC limits Quasi-Peak (dBuV) | FCC limits Average (dBuV) |
| 150kHz – 0.5 MHz | 66 to 56* | 56 to 46* |
| 0.5MHz – 5MHz | 56 | 46 |
| 5MHz – 30MHz | 60 | 50 |

* Decreases with logarithm of frequency

3.2 Sample received date and Test Period

| | |
|----------------------|-----------------|
| Sample received date | April 6, 2004 |
| Test Period | April 6-7, 2004 |

3.3 Modifications

N/A.

SECTION 4 ELECTROMAGNETIC INTERFERENCE TEST

Ambient Conditions:

| | Temperature | Humidity |
|--------------------|-------------|----------|
| Radiated Emission | 25 ° C | 60 % |
| Conducted Emission | 25 ° C | 60 % |

Test Configuration:

| Software Used During The Tests | | | |
|--------------------------------|--|----------------------------------|---------------------------------------|
| File Name | <input type="checkbox"/> EMCTEST | <input type="checkbox"/> Pinging | <input type="checkbox"/> Read & Write |
| | <input type="checkbox"/> Terminal | <input type="checkbox"/> Music | <input type="checkbox"/> Joy-Stick |
| | <input checked="" type="checkbox"/> Other: | | |
| Program Sequence | EUT transmitting a 58kHz signal and alarming with presence of a tag. | | |

Mode of Operational Investigated:

| | | Worse Case Emission Levels | |
|-------------------|---|-------------------------------------|-------------------------------------|
| | | Mode of Operation | Radiated Emission |
| Mode of Operation | Conducted Emission | | |
| 1 | EUT transmitting a 58kHz signal and alarming with presence of a tag | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2 | | <input type="checkbox"/> | <input type="checkbox"/> |

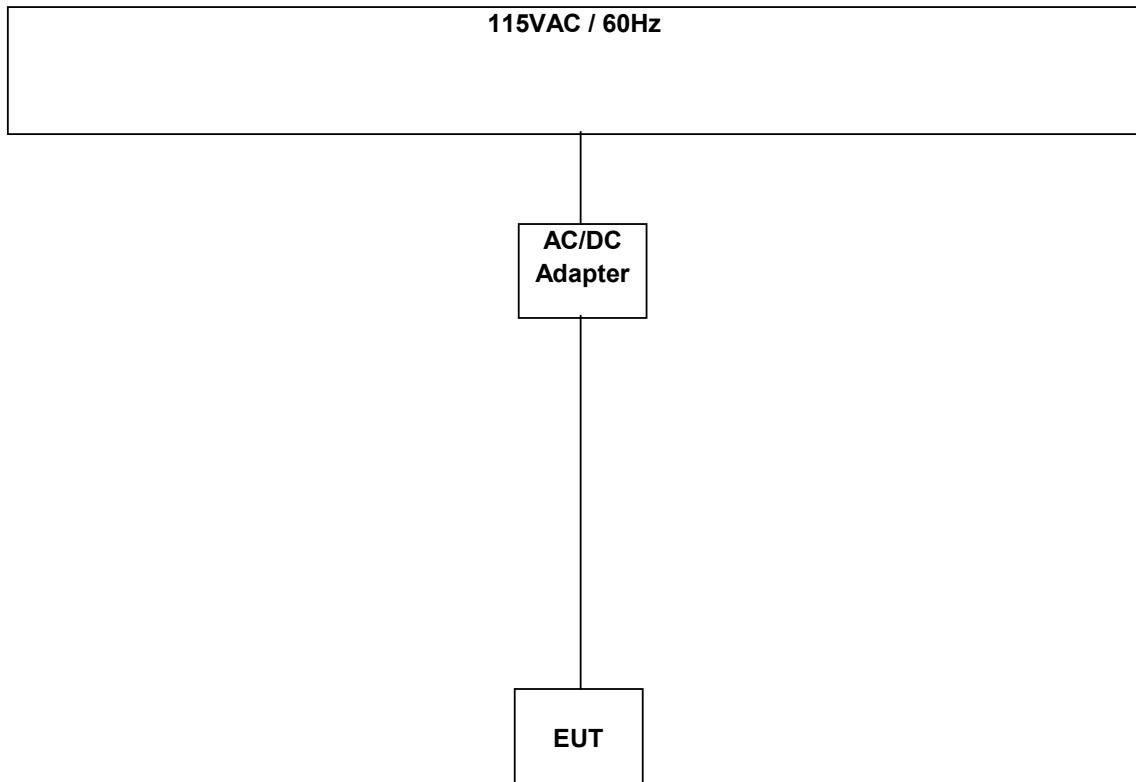
Frequency Range Investigated:

| | From | To |
|---------------------|---------|-------|
| Radiated Emissions | 9kHz | 1GHz |
| Conducted Emissions | 0.15MHz | 30MHz |

Test Peripherals

No support equipment was used.

Test Configuration Diagram



4.1 Radiated Emission Test Procedures

The EUT was placed on a wooden table 80 cm above the ground screen. The antenna to EUT distance was 10 meters for frequencies below 30MHz, and 3 meters for frequencies above 30MHz. During the test, the table was rotated 360 degrees to maximize emissions and the antenna was positioned from 1 to 4 meters above the ground screen to further maximize emissions. Measurements were made with the antenna polarized in both the vertical and the horizontal positions.

The EUT test configuration was according to Section 8 of ANSI C63.4/2001

The following procedure was used to make the measurements: The frequency range of interest was monitored at a fixed antenna height and EUT azimuth. The Frequency span was set small enough to easily differentiate between broadcast stations, intermittent ambient signals and EUT emissions. The EUT was rotated through 360 degrees to maximize emissions received. During the rotation if emission increased by more than 1 dB, or if another emission appeared that was greater by 1 dB, the EUT was returned to the azimuth where the maximum occurred, and additional cable manipulation was performed to further maximize received emissions.

The antenna was moved up and down to further maximize the suspected highest amplitude signal. If the emission increased by 1 dB or more, or if another emission appeared that was greater by 1dB or more, the antenna was returned to the height where maximum signal was observed, and, cables were manipulated to produce highest emissions, noting frequency and amplitude.

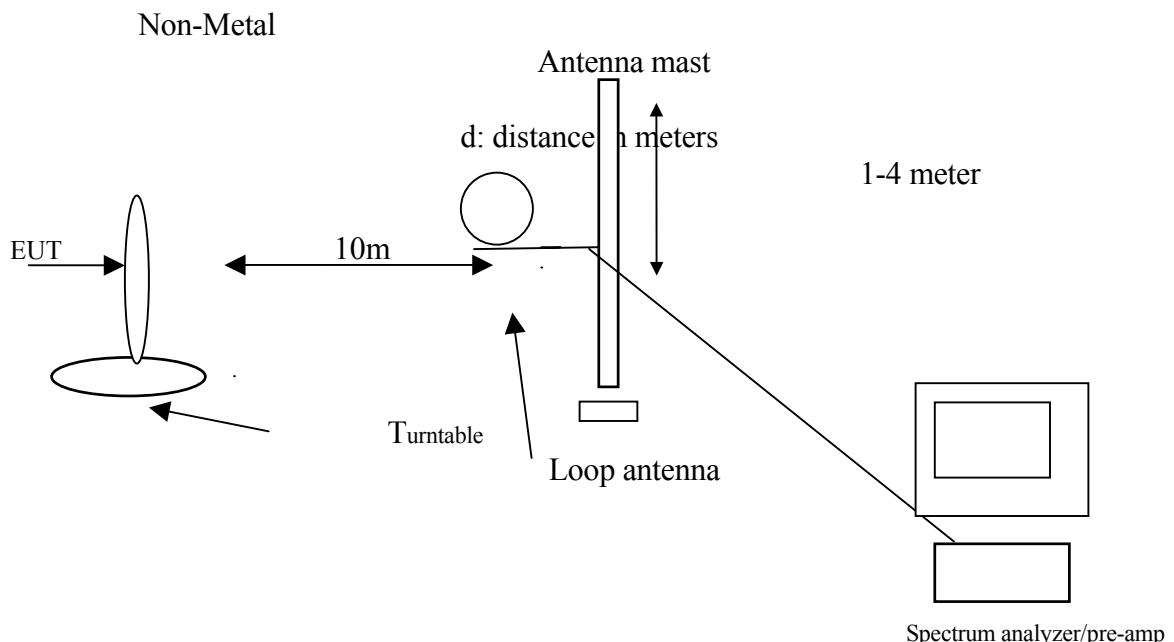
4.2 Radiated Emissions (below 30MHz)

4.2.1 Instrument Settings

| Frequency Range | Instrument | Detector Function | Resolution Bandwidth | Video Bandwidth |
|-----------------|-------------------|-------------------|----------------------|-----------------|
| 9kHz - 150 kHz | EMI Receiver | Quasi-Peak | 3kHz | 3kHz |
| 150kHz -30 MHz | EMI Receiver | Quasi-Peak | 100kHz | 100kHz |
| 9kHz - 150 kHz | Spectrum Analyzer | Peak | 100Hz | 100Hz |
| 150kHz- 30 MHz | Spectrum Analyzer | Peak | 9kHz | 9kHz |

4.2.2 Measurement Instrument Configuration

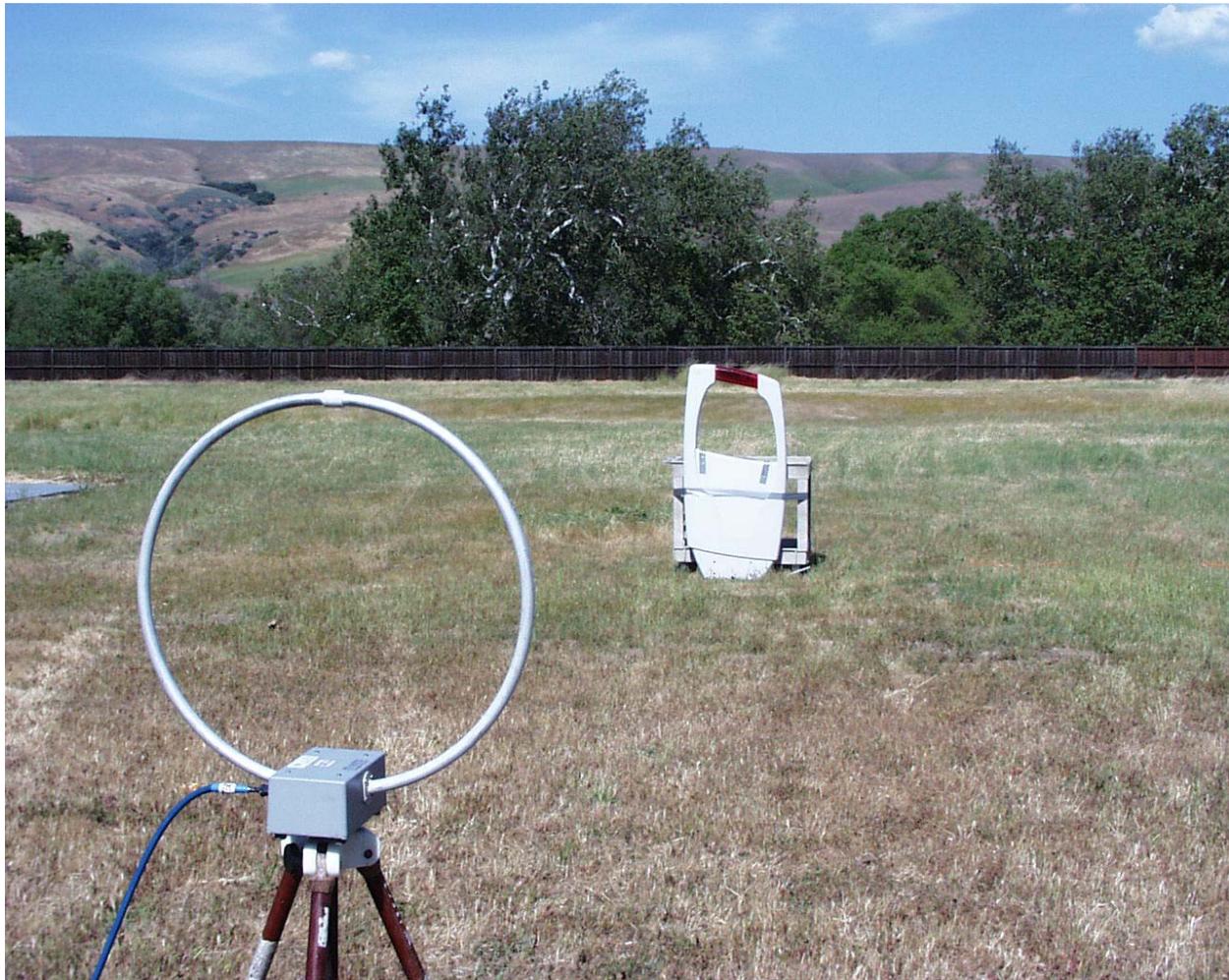
Radiated BELOW 30MHz



4.2.3 Measurement Equipment Used

| TEST EQUIPMENT LIST | | | | |
|-------------------------------|----------------|------------------|------------|----------|
| Name of Equipment | Manufacturer | Model No. | Serial No. | Due Date |
| RF Filter Section | HP | 85420E | 3705A00256 | 11/21/04 |
| EMI Receiver, 9 kHz ~ 2.9 GHz | HP | 8542E | 3942A00286 | 11/21/04 |
| 30MHz---- 2Ghz | Sunol Sciences | JB1 Antenna | A121003 | 12/22/04 |
| EMI Receiver | R&S | ESHS 20 | 827129/006 | 7/17/04 |
| LISN, 10 kHz ~ 30 MHz | FCC | LISN-50/250-25-2 | 2023 | 10/13/04 |
| LISN, 10 kHz ~ 30 MHz | Solar | 8012-50-R-24-BNC | 8379443 | 10/13/04 |
| Loop Antenna | EMCO | 6502 | 9202-2722 | 4/23/04 |

4.2.4 Below 30MHz Emission Test Setup photos



4.2.5 Below 30MHz Emission Test Results

| WG Security Products ,INC. 03U2265-1 FCC Part 15, Subpart C 10 meter measurement EAS System, model: WGUNG58 (Uniguard) (New Shipped) Tester: Ben Du Date: 04/06/2004 | | | | | | | | | | | | |
|--|--------------|--------------|--------------|------------|-----------------------------|----------------------------------|----------------------------------|----------------------|----------------------|-------------------|-------------------|---------------------------|
| Frequency (MHz) | PK (dBuV) | QP (dBuV) | AV (dBuV) | AF dB/m | Distance Correction (dB) | PK Corrected Reading (dBuV/m) | AV Corrected Reading (dBuV/m) | PK Limit (dBuV/m) | AV Limit (dBuV/m) | PK Margin (dB) | AV Margin (dB) | Notes |
| Loop Antenna Face On Worst Case: | | | | | | | | | | | | |
| 0.058 | 89.6 | | 68.3 | 12 | -59.08 | 42.52 | 21.22 | 52.34 | 32.34 | -9.8 | -11.1 | Fundamental, 10m distance |
| 0.116 | 49.2 | | 41.3 | 11.5 | -59.08 | 1.62 | -6.28 | 46.32 | 26.32 | -44.7 | -32.6 | 10m distance |
| 0.174 | 48.2 | | 40.2 | 11 | -59.08 | 0.12 | -7.88 | 42.79 | 22.79 | -42.7 | -30.7 | 10m distance |
| 0.232 | 49.6 | | 41.3 | 11 | -59.08 | 1.52 | -6.78 | 40.29 | 20.29 | -38.8 | -27.1 | 10m distance |
| 0.29 | 55.7 | | 44.1 | 11 | -59.08 | 7.62 | -3.98 | 38.36 | 18.36 | -30.7 | -22.3 | 10m distance |
| 0.348 | 53.6 | | 46.5 | 11 | -59.08 | 5.52 | -1.58 | 36.77 | 16.77 | -31.3 | -18.4 | 10m distance |
| 0.406 | 55.2 | | 44 | 11 | -59.08 | 7.12 | -4.08 | 35.43 | 15.43 | -28.3 | -19.5 | 10m distance |
| 0.464 | 49.7 | | 43.8 | 11 | -59.08 | 1.62 | -4.28 | 34.27 | 14.27 | -32.7 | -18.6 | 10m distance |
| Frequency (MHz) | PK (dBuV) | QP (dBuV) | | AF dB/m | Distance Correction (dB) | QP Corrected Reading (dBuV/m) | | QP Limit (dBuV/m) | | QP Margin (dB) | | Notes |
| 0.522 | 45.5 | 39.5 | | 10.9 | -19.08 | 31.32 | | 33.25 | | -1.9 | | 10m distance |
| 0.638 | 39.1 | 36.9 | | 10.8 | -19.08 | 28.62 | | 31.51 | | -2.9 | | 10m distance |
| 0.87 | 36.7 | 34.1 | | 10.8 | -19.08 | 25.82 | | 28.81 | | -3.0 | | 10m distance |
| 0.928 | 37.2 | 34.1 | | 10.8 | -19.08 | 25.82 | | 28.25 | | -2.4 | | 10m distance |
| 0.986 | 38.2 | 34.2 | | 10.8 | -19.08 | 25.92 | | 27.73 | | -1.8 | | 10m distance |
| 1.334 | 36.9 | 31.7 | | 10.8 | -19.08 | 23.42 | | 25.10 | | -1.7 | | 10m distance |

* No more emissions were found up to 30MHz

Q.P. = Quasi Peak Readings
A.F. = Antenna factor

4.3 Radiated Emissions (above 30MHz)

4.3.1 Instrument Setting

| Frequency Range | Instrument | Detector Function | Resolution Bandwidth | Video Bandwidth |
|-----------------|-------------------|-------------------|----------------------|-----------------|
| 30 - 1000 MHz | EMI Receiver | Quasi-Peak | 120kHz | N/A |
| 30 – 1000 MHz | Spectrum Analyzer | Peak | 100kHz | 100kHz |
| Above 1000 MHz | Spectrum Analyzer | Peak | 1 MHz | 1 MHz |

4.3.2 Measurement Instrument Configuration

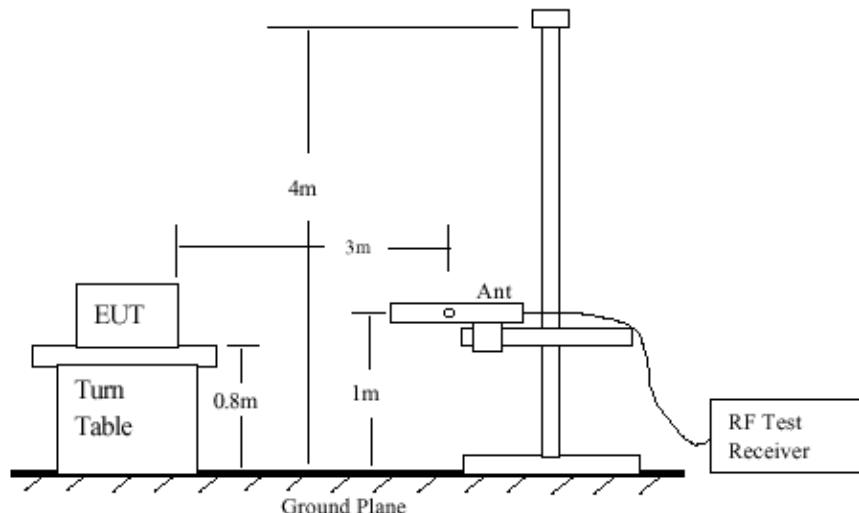


Fig 1: Radiated Emission Measurement 30 to 1000 MHz

4.3.3 Measurement Equipment Used

| TEST EQUIPMENT LIST | | | | |
|-------------------------------|----------------|------------------|------------|----------|
| Name of Equipment | Manufacturer | Model No. | Serial No. | Due Date |
| RF Filter Section | HP | 85420E | 3705A00256 | 11/21/04 |
| EMI Receiver, 9 kHz ~ 2.9 GHz | HP | 8542E | 3942A00286 | 11/21/04 |
| 30MHz---- 2Ghz | Sunol Sciences | JB1 Antenna | A121003 | 12/22/04 |
| EMI Receiver | R&S | ESHS 20 | 827129/006 | 7/17/04 |
| LISN, 10 kHz ~ 30 MHz | FCC | LISN-50/250-25-2 | 2023 | 10/13/04 |
| LISN, 10 kHz ~ 30 MHz | Solar | 8012-50-R-24-BNC | 8379443 | 10/13/04 |
| Loop Antenna | EMCO | 6502 | 9202-2722 | 4/23/04 |

4.3.4 Radiated Emission Test Setup Photos

FRONT VIEW



REAR VIEW

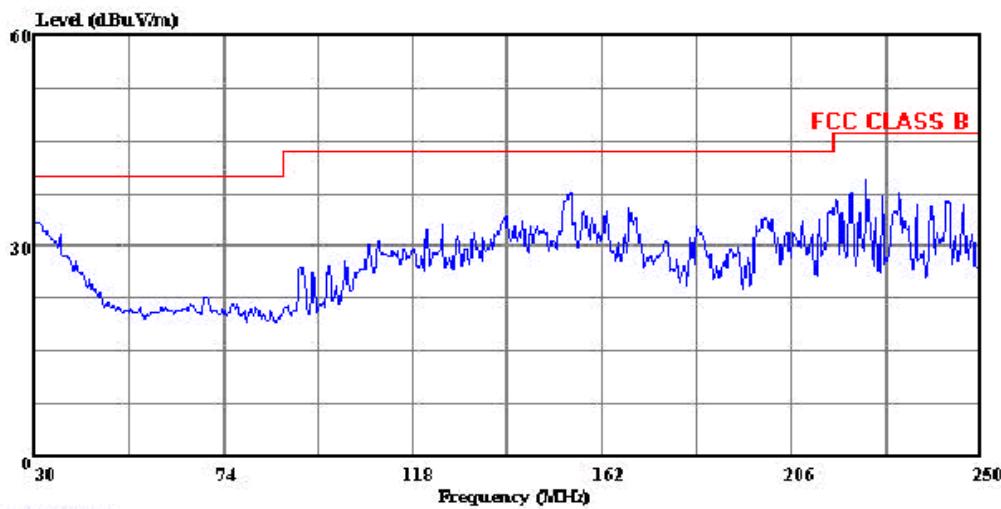


4.3.5 Radiated Emission Test Result



561F Monterey Road
San Jose, CA 95131
Tel: (408) 463-0888
Fax: (408) 463-0885

Data#: 34 File#: WG-Jan9.EMI Date: 04-07-2004 Time: 08:46:56



(Audit ATC)

Trace:

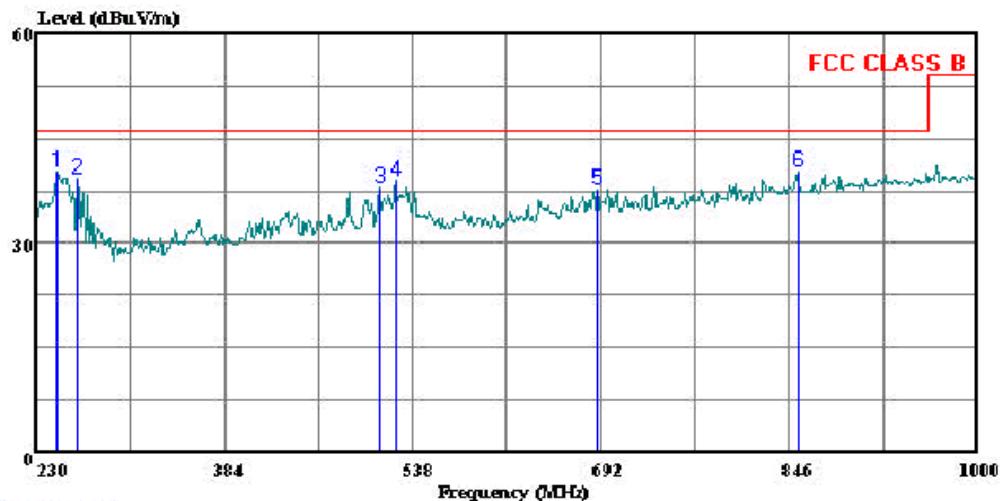
Ref Trace:

Condition: FCC CLASS B SUNOL BILOG 12/22/04 HORIZONTAL
Test Eng: : ben
Project #: : 03U2265
Company: : W G
EUT: : Pro Guard
: 4/5/04 new set
Model No: : UniGuard
Configuration: : EUT Only
Target of Test: : FCC CLASS B
Mode of Operation: Alarming Continously ON W/ TWO Antennas
: Connected and RJ45



561F Monterey Road
San Jose, CA 95131
Tel: (408) 463-0888
Fax: (408) 463-0885

Data#: 53 File#: WG-Jan9.EMI Date: 04-07-2004 Time: 20:47:54



(Audix ATC)
Trace: 52

Ref Trace:

Condition: FCC CLASS B SUNOL BILOG 12/22/04 HORIZONTAL
Test Eng: : Chin Pang
Project #: : 03U2265
Company: : WG
EUT: : Pro Guard
Model No: : UniGuard
Configuration: : EUT Only
Target of Test: : FCC Class B
Mode of Operation: Alarm on

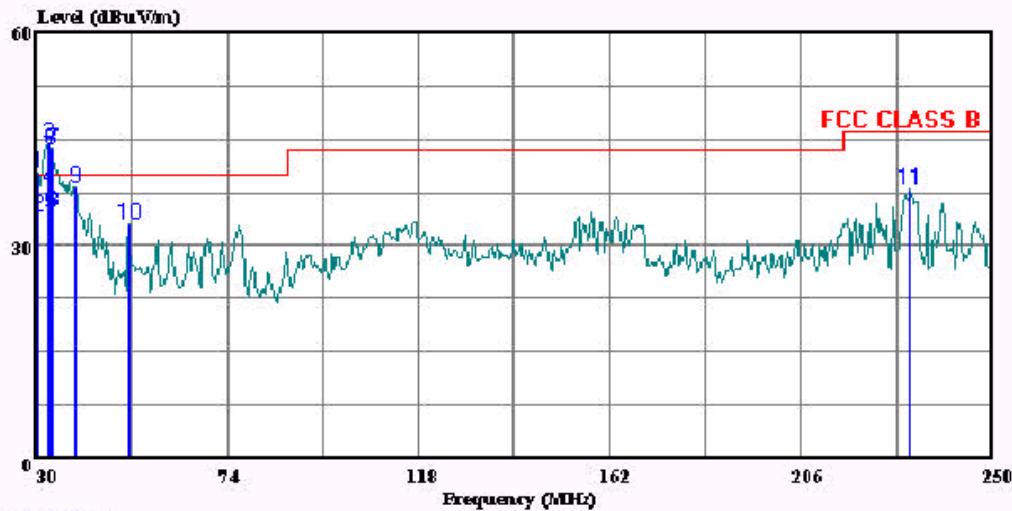
Page: 1

| Freq | Remark | Read | | Limit | | Over | | |
|------|---------|-------|--------|-------|-------|--------|--------|----|
| | | Level | Factor | Level | Line | | | |
| | | MHz | | dBuV | dB | dBuV/m | dBuV/m | dB |
| 1 | 246.940 | Peak | 26.22 | 13.96 | 40.18 | 46.00 | -5.82 | |
| 2 | 263.880 | Peak | 24.36 | 14.78 | 39.14 | 46.00 | -6.86 | |
| 3 | 510.280 | Peak | 17.07 | 20.75 | 37.82 | 46.00 | -8.19 | |
| 4 | 524.140 | Peak | 17.95 | 20.93 | 38.88 | 46.00 | -7.12 | |
| 5 | 689.690 | Peak | 14.15 | 23.46 | 37.61 | 46.00 | -8.39 | |
| 6 | 852.930 | Peak | 14.66 | 25.53 | 40.19 | 46.00 | -5.81 | |



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Fax: (408) 463-0885

Data#: 49 File#: WG-Jan9.EMI Date: 04-07-2004 Time: 17:46:12



(Audit ATC)

Trace: 32

Ref Trace:

Condition: FCC CLASS B SUNOL BILOG 12/22/04 VERTICAL
Test Eng: : ben
Project #: : 03U2265
Company: : W G
EUT: : Pro Guard
: 4/5/04 new set
Model No: : UniGuard
Configuration: : EUT Only
Target of Test: : FCC CLASS B
Mode of Operation: Alarming Continously ON W/ TWO Antennas
: Connected and RJ45

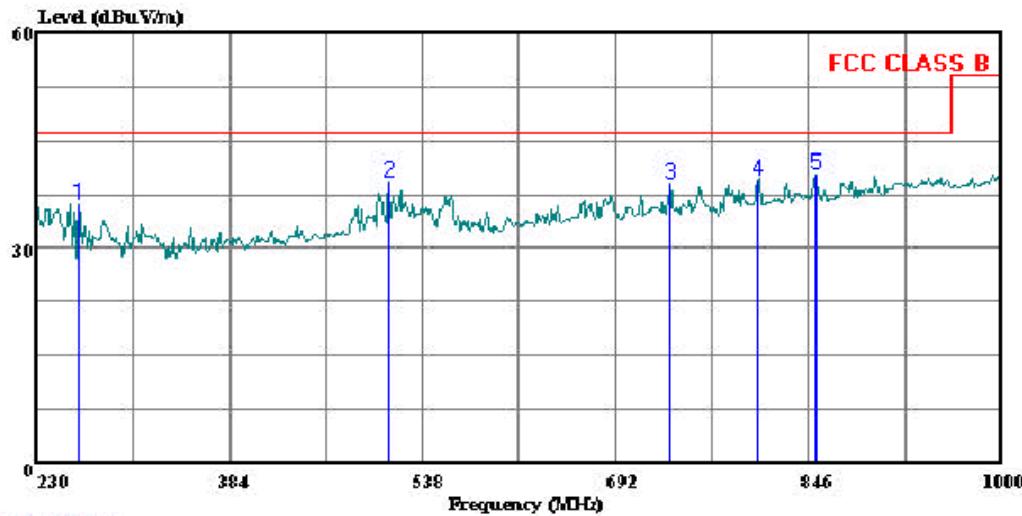
Page: 1

| Freq | Remark | Read | | Limit | | Over |
|------|-------------|-------|-------|--------|-------|-------|
| | | MHz | Level | Factor | Level | |
| | | | | | | dB |
| 1 * | 30.440 Peak | 17.68 | 22.65 | 40.33 | 40.00 | 0.33 |
| 2 | 30.440 QP | 11.63 | 22.65 | 34.28 | 40.00 | -5.72 |
| 3 * | 32.640 Peak | 23.19 | 21.18 | 44.37 | 40.00 | 4.37 |
| 4 | 32.640 QP | 17.06 | 21.18 | 38.23 | 40.00 | -1.77 |
| 5 | 33.300 QP | 13.81 | 20.69 | 34.50 | 40.00 | -5.51 |
| 6 * | 33.300 Peak | 22.88 | 20.69 | 43.57 | 40.00 | 3.57 |



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San Jose, CA 95131
Tel: (408) 463-0888
Fax: (408) 463-0885

Data#: 51 File#: WG-Jan9.EMI Date: 04-07-2004 Time: 20:41:05



(Audit ATC)

Trace: 50

Ref Trace:

Condition: FCC CLASS B SUNOL BILOG 12/22/04 VERTICAL

Test Eng: : Chin Pang

Project #: : 03U2265

Company: : WG

EUT: : ProGuard

Model No: : UniGuard

Configuration: : EUT Only

Target of Test: : FCC Class B

Mode of Operation: Alarm on

Page: 1

| Freq | Remark | Read | | Limit | Over | Over | |
|------|---------|------|-------|-------|-------|--------|-------|
| | | MHz | Level | | | | |
| | | | | dBuV | dB | dBuV/m | |
| 1 | 263.880 | Peak | 21.36 | 14.78 | 36.14 | 46.00 | -9.86 |
| 2 | 510.280 | Peak | 18.48 | 20.75 | 39.23 | 46.00 | -6.78 |
| 3 | 735.890 | Peak | 14.60 | 24.30 | 38.90 | 46.00 | -7.10 |
| 4 | 805.960 | Peak | 14.52 | 25.06 | 39.58 | 46.00 | -6.42 |
| 5 | 851.390 | Peak | 14.77 | 25.52 | 40.29 | 46.00 | -5.71 |

4.4 Conducted Emission Test Procedures

The EUT was setup and located so that the distance between the boundary of the EUT and the closest surface to the LISN was 0.8m or more.

EUT test configuration was according to Section 7 of ANSI C63.4/2001.

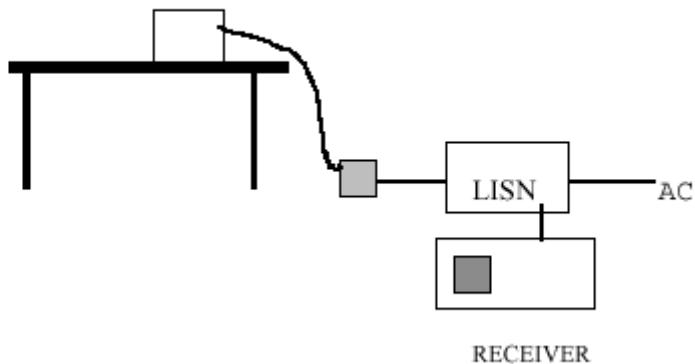
Conducted disturbance was measured between the phase lead and the ground, and between the neutral lead and the ground. The frequency range of (0.150 – 30) MHz was investigated.

The EMI receiver was set to PEAK detector setting, and swept continuously over the frequency range to be investigated. The resolution bandwidth was set to 9kHz minimum. The EMI receiver input cable was connected to LINE 1 RF measurement connection on the LISN. A 50ohm terminator was connected to the unused RF port on the LISN. For each mode of EUT operation, emissions readings were maximized by manipulating cable and wire positions. The configuration for each EUT power cord which produced emissions closest to the limit was recorded. The same procedure was repeated for LINE 2 of each EUT power cord.

4.4.1 Instrument Settings

| Frequency Range | Peak | Quasi-Peak | Average |
|-----------------|--------|------------|---------|
| 0.150 – 30 MHz | 10 kHz | 9 kHz | 10 kHz |

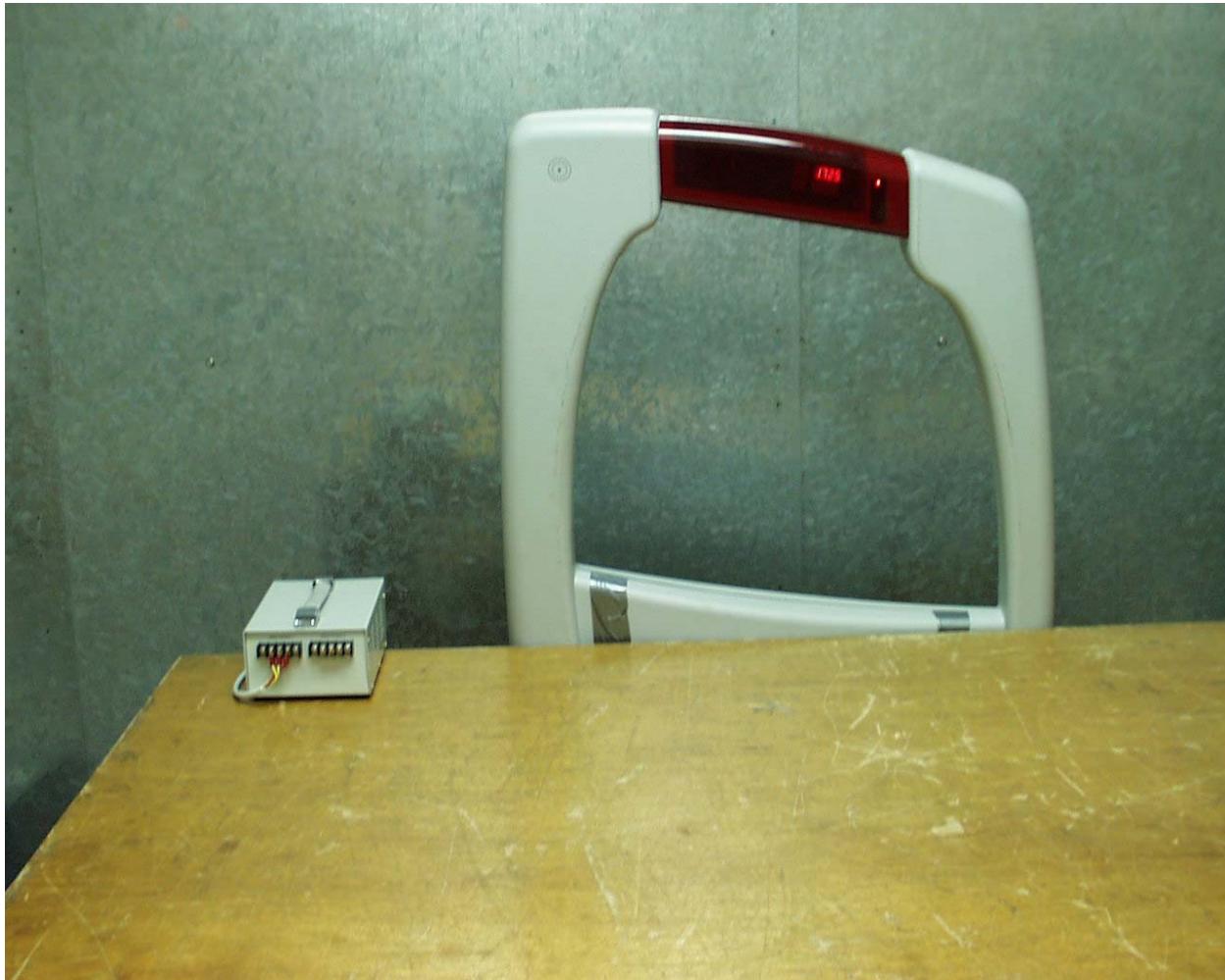
4.4.2 Measurement Instrument Configuration



4.4.3 Measurement Equipment Used

Refer to Radiated Emissions section for test equipment.

4.4.4 Conducted Emission Test Setup Photos



Front View



Rear View

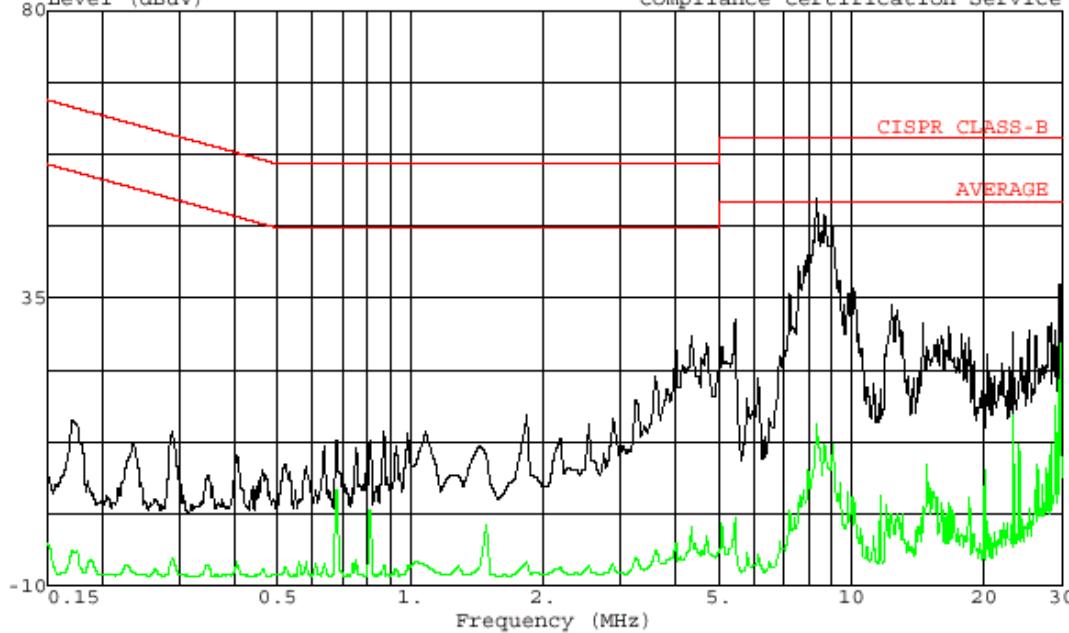
4.4.5 Conducted Emission Test Result

| CONDUCTED EMISSIONS DATA (115VAC 60Hz) | | | | | | | | | |
|--|-----------|-----------|-----------|---------------|-------------|------------|---------|---------|-------------------|
| Freq. (MHz) | Reading | | | Closs (dB) | Limit QP | EN B AV | Margin | | Remark L1 / L2 |
| | PK (dBuV) | QP (dBuV) | AV (dBuV) | | | | QP (dB) | AV (dB) | |
| 0.17 | 15.86 | -- | 4.98 | 0.00 | 65.37 | 55.37 | -49.51 | -50.39 | L1 |
| 5.49 | 31.84 | -- | 15.42 | 0.00 | 60.00 | 50.00 | -28.16 | -34.58 | L1 |
| 8.32 | 50.50 | -- | 27.35 | 0.00 | 60.00 | 50.00 | -9.50 | -22.65 | L1 |
| 0.17 | 16.62 | -- | 2.89 | 0.00 | 65.31 | 55.31 | -48.69 | -52.42 | L2 |
| 5.45 | 30.88 | -- | 17.39 | 0.00 | 60.00 | 50.00 | -29.12 | -32.61 | L2 |
| 8.32 | 53.02 | -- | 27.17 | 0.00 | 60.00 | 50.00 | -6.98 | -22.83 | L2 |
| 6 Worst Data | | | | | | | | | |



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Fax: (408) 463-0888

Data#: 14 File#: 03U2265.EMI Date: 04-06-2004 Time: 11:44:37
Level (dBuV) Compliance Certification Service

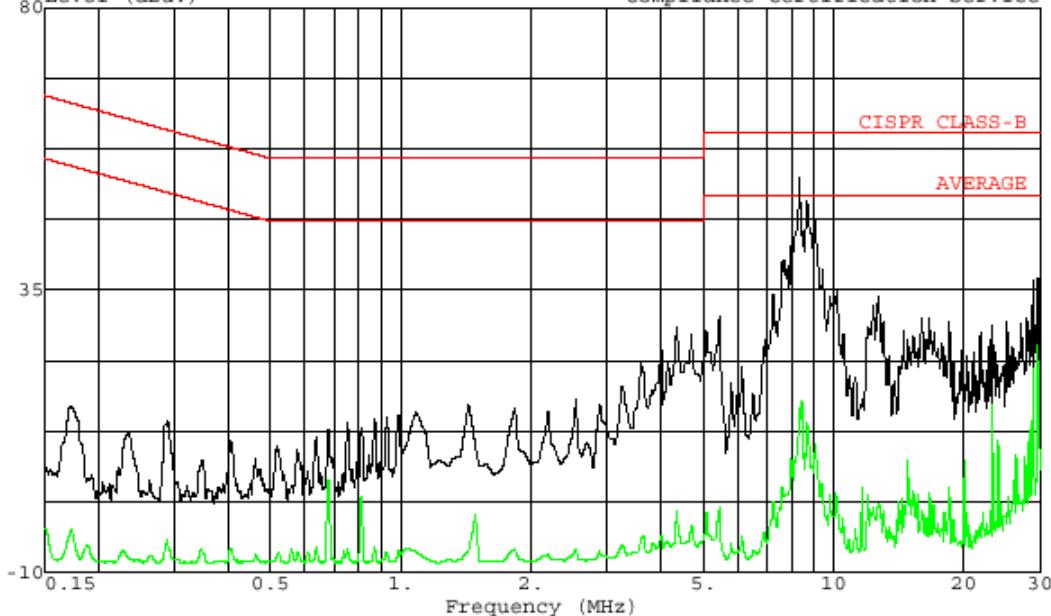


Trace: 12 Ref Trace:
Project # : 03U2265
Test Operator : Ben Du
Company : W G
EUT : Pro Guard
Model : WGPRG58
Configuration : EUT
Mode of Operation: W/ ALARMING
Target of Test : FCC Class B, use EN22 limit
Voltage : 115Vac, 60Hz.
: Line1: Peak (Black); Average (Green)



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Data#: 21 File#: 03U2265.EMI Date: 04-06-2004 Time: 11:56:44
Level (dBuV) Compliance Certification Service



Trace: 19 Ref Trace:
Project # : 03U2265
Test Operator : Ben Du
Company : W G
EUT : Pro Guard
Model : WGPRG58
Configuration : EUT
Mode of Operation: W/ ALARMING
Target of Test : FCC Class B, use EN22 limit
Voltage : 115Vac, 60Hz.
: Line 2: Peak (Black); Average (Green)

END OF REPORT