

# TEST REPORT



Certification # 1367-01

Laboratory ID

PRODUCT SAFETY ENGINEERING, INC.  
12955 Bellamy Brothers Boulevard  
Dade City, Florida 33525 USA  
PH (352) 588-2209 FX (352) 588-2544

Submitter ID

Dealer Security Solutions Inc.  
11379 Trade Center Dr.  
Rancho Cordova, CA 95742

Report Issue Date: 03/27/2003

Sample S/N: NA

Sample Receipt Date: 03/17/2003

Sample Test Date: see data sheets

Test Report Number: 03F178B

Model Designation: 921300

Product Description: Handheld Transmitter

Marketing Approval \_\_\_\_\_

Description of non-standard test method or test practice: *None*

Estimated Measurement Uncertainty: *Not Applicable*

Special limitations of use: *None*

Traceability: *reference standards of measurement have been calibrated by a competent body using standards traceable to the NIST.*

According to testing performed at Product Safety Engineering, Inc., the above-mentioned unit is in compliance with the electromagnetic compatibility requirements defined in regulations indicated on page (3) of the test report. The test results contained herein relate only to the model(s) identified above. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical characteristics.

As the responsible EMC Project Engineer, I hereby declare that the equipment tested as specified above conforms to the requirements indicated on page (3) of the test report.

Signature *David Foerstner* Name David Foerstner

Title Engineering Group Leader Date 27 MAR 03

Reviewed by: *Jim E. Hahn*  
Approved Signatory *Jim E. Hahn* Date 27 MAR 03

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Test Report Number 03F178B

Product Safety Engineering, Inc 12955 Bellamy Brothers Blvd. Dade City, FL 33525  
Tel (352) 588-2209 Fax (352) 588-2544

## DIRECTORY - EMISSIONS

|    |  | Page(s)             |
|----|--|---------------------|
| A) | Documentation                          |                     |
|    | Test report                            | 1 - 10              |
|    | Directory                              | 2                   |
|    | Test Regulations                       | 3                   |
|    | General Remarks                        | 10                  |
|    | Test-setups (Photos)                   | 11 - 12             |
| B) | Test data                              |                     |
|    | Conducted emissions                    | 10/150 kHz - 30 MHz |
|    |  | 5, 9                |
|    | Radiated emissions                     | 10 kHz - 30 MHz     |
|    |  | 5, 9                |
|    | Radiated emissions                     | 30 MHz - 1000 MHz   |
|    |  | 6, 9                |
|    | Interference power                     | 30 MHz - 300 MHz    |
|    |  | 6, 9                |
|    | Equivalent Radiated emissions          | 1 GHz - 18 GHz      |
|    |  | 7, 9                |
|    | Antenna Disturbance Voltage            | 30 MHz - 1,000 MHz  |
|    |  | 7,9                 |
| C) | Appendix A                             |                     |
|    | Test Equipment Calibration Information | A2                  |
|    | Test Data Sheets                       | A3 - A5             |
| D) | Appendix B                             |                     |
|    | System Under Test Description          | B2 - B2             |

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## EMISSIONS TEST REGULATIONS :

The emissions tests were performed according to following regulations:

- ☐ - EN 50081-1 : 1992
- ☐ - EN 50081-2 : 1995
  
- ☐ - EN 55011 : 1998 / A1:1999
  - ☐ - Group 1
  - ☐ - Class A
- ☐ - EN 55013 : 1990 / A12:1994 / A13:1996 / A14:1999
  - ☐ - Group 2
  - ☐ - Class B
  
- ☐ - EN 55014 : 1993 / A1:1997
  - ☐ - Household appliances and similar
  - ☐ - Portable tools
  - ☐ - Semiconductor devices
  
- ☐ - EN 55022 : 1998
  - ☐ - Class A
  - ☐ - Class B
- ☐ - AS/NZS 3540: 1995
  - ☐ - Class A
  - ☐ - Class B
- ☐ - ICES-003
  - ☐ - Class A
  - ☐ - Class B
- ☐ - CNS 13438
  - ☐ - Class A
  - ☐ - Class B
- ☐ - VCCI : 1999
  - ☐ - Class A
  - ☐ - Class B
- ☒ - FCC Part 15
  - ☐ - Class A
  - ☐ - Class B
  - ☒ - Certification
  - ☐ - Verification
  - ☐ - Declaration of Conformity
  
- ☐ - FCC Part 18

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## Environmental conditions during testing:

|                       | LAB   | OATS    |
|-----------------------|-------|---------|
| Temperature: *        | _____ | : _____ |
| Relative Humidity: ** | _____ | : _____ |

\* The ambient temperature during the testing was within the range of (50° - 104° F) unless indicted above.

\*\* The humidity levels during the testing was within the range of (10% - 90%) relative humidity unless indicated above.

Power supply system : \_\_\_\_\_ Volts \_\_\_\_\_ Hz SINGLE phase

## Sign Explanations:

- ☐ - not applicable
- ☒ - applicable

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## Emissions Test Conditions: CONDUCTED EMISSIONS (Interference Voltage)

The *CONDUCTED EMISSIONS (INTERFERENCE VOLTAGE)* measurements were performed at the following test location:

■ - Test not applicable

- ☐ - Darby Test Site (Open Area Test Site)
- ☐ - Darby Laboratory

### Test equipment used :

|                            | Model Number | Manufacturer       | Description        | Serial Number  |
|----------------------------|--------------|--------------------|--------------------|----------------|
| <input type="checkbox"/> - | 8028-50      | Solar              | 50 $\Omega$ LISN   | 829012, 829022 |
| <input type="checkbox"/> - | 3825/2       | Solar              | 50 $\Omega$ LISN   | 924840         |
| <input type="checkbox"/> - | EMC-30       | Electro-Metrics    | EMI Receiver       | 191            |
| <input type="checkbox"/> - | 8566B        | Hewlett-Packard    | Spectrum Analyzer  | 2421A00526     |
| <input type="checkbox"/> - | 85650A       | Hewlett-Packard    | Quasi-Peak Adapter | 2043A00209     |
| <input type="checkbox"/> - | 85662A       | Hewlett Packard    | Analyzer Display   | 2403A07352     |
| <input type="checkbox"/> - | 8028-50      | Solar              | 50 $\Omega$ LISN   | 903725, 903726 |
| <input type="checkbox"/> - | FCC-TLISN-T4 | Fisher Custom Com. | Telecom ISN        | 20072          |

## Emissions Test Conditions: RADIATED EMISSIONS (Magnetic Field)

The *RADIATED EMISSIONS (MAGNETIC FIELD)* measurements were performed at the following test location:

- ☐ - Darby Test Site (Open Area Test Site)
- ☐ -
- ☐ -

### at a test distance of :

- ☐ - 3 meters
- ☐ - 30 meters

■ - Test not applicable

### Test equipment used :

|                            | Model Number | Manufacturer    | Description          | Serial Number |
|----------------------------|--------------|-----------------|----------------------|---------------|
| <input type="checkbox"/> - | 96005        | Eaton           | Log Periodic Antenna | 1099          |
| <input type="checkbox"/> - | BIA-25       | Electro-Metrics | Biconical Antenna    | 4283          |
| <input type="checkbox"/> - | 8566B        | Hewlett-Packard | Spectrum Analyzer    | 2421A00526    |
| <input type="checkbox"/> - | 85662A       | Hewlett-Packard | Analyzer Display     | 2403A07352    |
| <input type="checkbox"/> - | 85650A       | Hewlett-Packard | Quasi-Peak Adapter   | 2043A00209    |
| <input type="checkbox"/> - | ALR-30M      | Electro-Metrics | Loop Antenna         | 824           |
| <input type="checkbox"/> - | 8447D        | Hewlett Packard | Preamplifier         | 2944A06832    |
| <input type="checkbox"/> - | EMC-30       | Electro-Metrics | EMI Receiver         | 191           |

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## Emissions Test Conditions: RADIATED EMISSIONS (Electric Field)

The **RADIATED EMISSIONS (ELECTRIC FIELD)** measurements, in the frequency range of 30 MHz-1000 MHz, were tested in a horizontal and vertical polarization at the following test location :

☐ - Test not applicable

- ☒ - Darby Site (Open Area Test Site)
- ☐ - Darby Lab
- ☐ -

at a test distance of :

- ☒ - 3 meters
- ☐ - 10 meters
- ☐ - 30 meters

### Test equipment used :

| Model Number                                 | Manufacturer    | Description          | Serial Number |
|--|-----------------|----------------------|---------------|
| <input checked="" type="checkbox"/> - 96005  | Eaton           | Log Periodic Antenna | 1099          |
| <input checked="" type="checkbox"/> - BIA-25 | Electro-Metrics | Biconical Antenna    | 4283          |
| <input checked="" type="checkbox"/> - 8566B  | Hewlett-Packard | Spectrum Analyzer    | 2421A00526    |
| <input checked="" type="checkbox"/> - 85662A | Hewlett-Packard | Analyzer Display     | 2403A07352    |
| <input checked="" type="checkbox"/> - 85650A | Hewlett-Packard | Quasi-Peak Adapter   | 2043A00209    |
| <input checked="" type="checkbox"/> - 8447D  | Hewlett-Packard | Preamplifier (26dB)  | 2944A06832    |
| <input type="checkbox"/> - EMC-30            | Electro-Metrics | EMI Receiver         | 191           |
| <input type="checkbox"/> - 8568B             | Hewlett Packard | Spectrum Analyzer    | 2407A03213    |
| <input type="checkbox"/> - 85650A            | Hewlett Packard | Quasi-Peak Adapter   | 2043A00358    |
| <input type="checkbox"/> - 85662A            | Hewlett Packard | Analyzer Display     | 2340A05806    |
| <input type="checkbox"/> - LPA30             | Electro-Metrics | Log Periodic         | 2280          |
| <input type="checkbox"/> - BIA 30            | Electro-Metrics | Biconical Antenna    | 3852          |

## Emissions Test Conditions): INTERFERENCE POWER

The **INTERFERENCE POWER** measurements were performed by using the absorbing clamp on the mains and interface cables in the frequency range 30 MHz - 300 MHz at the following test location :

☒ - Test not applicable

- ☐ - Darby Lab
- ☐ -

### Test equipment used :

| Model Number                      | Manufacturer    | Description        | Serial Number |
|-----------------------------------|-----------------|--------------------|---------------|
| <input type="checkbox"/> - MDS-21 | Rhode&Schwarz   | Absorbing Clamp    | 8608447020    |
| <input type="checkbox"/> - 8566B  | Hewlett-Packard | Spectrum Analyzer  | 2421A00526    |
| <input type="checkbox"/> - 85662A | Hewlett-Packard | Analyzer Display   | 2403A07352    |
| <input type="checkbox"/> - 85650A | Hewlett-Packard | Quasi-Peak Adapter | 2043A00209    |
| <input type="checkbox"/> - 8447D  | Hewlett-Packard | Amplifier (26 dB)  | 2944A06832    |
| <input type="checkbox"/> - EMC-30 | Electro-Metrics | EMI Receiver       | 191           |

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The **EQUIVALENT RADIATED EMISSIONS** measurements in the frequency range **1 GHz - 4.5 GHz** were performed in a horizontal and vertical polarization at the following test location :

☒ - Darby Test Site (Open Area Test Site)

☐ -

☐ -

☐ -

at a test distance of:

☐ - 1 meters

☒ - 3 meters

☐ - 10 meters

☐ - Test not applicable

Test equipment used :

| Model Number                                 | Manufacturer      | Description             | Serial Number |
|--|-------------------|-------------------------|---------------|
| <input checked="" type="checkbox"/> - 8566B  | Hewlett-Packard   | Spectrum Analyzer       | 2421A00526    |
| <input checked="" type="checkbox"/> - 85662A | Hewlett-Packard   | Analyzer Display        | 2403A07352    |
| <input checked="" type="checkbox"/> - 85650A | Hewlett-Packard   | Quasi-Peak Adapter      | 2043A00209    |
| <input checked="" type="checkbox"/> - 8449B  | Hewlett-Packard   | Preamplifier            | 3008A00320    |
| <input checked="" type="checkbox"/> - 3115   | Electro-Mechanics | Double Ridge Guide Horn | 3810          |

The **ANTENNA TERMINAL DISTURBANCE VOLTAGE** in the frequency range **30 MHz - 1,000 MHz** were performed.

☐ - Darby Test Site (Open Area Test Site)

☐ - Laboratory

☐ -

☐ -

☒ - Test not applicable

| Model Number                           | Manufacturer    | Description                 | Serial Number |
|--|-----------------|-----------------------------|---------------|
| <input type="checkbox"/> - 2F9-3C4-3C5 | Wavecom         | UHF PAL TV Modulator        | 185879        |
| <input type="checkbox"/> - 2F1-3C4-3C5 | Wavecom         | VHF PAL TV Modulator        | 157728        |
| <input type="checkbox"/> - A-8000      | IFR             | Spectrum Analyzer           | 1306          |
| <input type="checkbox"/> - 8648B       | Hewlett-Packard | Signal Generator            | 3623A01433    |
| <input type="checkbox"/> - 8648B       | Hewlett-Packard | Signal Generator            | 3623A01477    |
| <input type="checkbox"/> - LMV-182A    | Leader          | RMS Milli-Voltmeter         | 8010091       |
| <input type="checkbox"/> - 3202        | Krhon-Hite      | Active filter               | 5899          |
| <input type="checkbox"/> - FMT115      | Leaming         | FM Modulator                | NONE          |
| <input type="checkbox"/> - 371         | UDT             | Optical power meter         | 06657         |
| <input type="checkbox"/> - TSG95       | Tektronix       | PAL video / Audio generator | B028883       |
| <input type="checkbox"/> -             |                 |                             |               |

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## Equipment Under Test (EUT) Test Operation Mode - Emission tests :

The device under test was operated under the following conditions during emissions testing:

- ☐ - Standby
- ☐ - Test program (H - Pattern)
- ☐ - Test program (color bar)
- ☐ - Test program (customer specific)
- ☐ - Practice operation
- ☒ - Normal Operating Mode
- ☐ -

## Configuration of the device under test:

- ☒ - See System Under Test Information in Appendix B

## Rationale for EUT setup / configuration:

Per ANSI

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## Emission Test Results:

### Conducted emissions 10/150/450 kHz - 30 MHz

The requirements are ☐ - MET ☐ - NOT MET  
Minimum limit margin dB at MHz  
Remarks:

### Radiated emissions (magnetic field) 10 kHz - 30 MHz

The requirements are ☐ - MET ☐ - NOT MET  
Minimum limit margin dB at MHz  
Remarks:

### Radiated emissions (electric field) 30 MHz - 1000 MHz

The requirements are ☒ - MET ☐ - NOT MET  
Minimum limit margin 2.6 dB at 867.9 MHz  
Remarks:

### Interference Power at the mains and interface cables 30 MHz - 300 MHz

The requirements are ☐ - MET ☐ - NOT MET  
Minimum limit margin dB at MHz  
Remarks:

### Radiated emissions 1 GHz - 4.5 GHz

The requirements are ☒ - MET ☐ - NOT MET  
Minimum limit margin 2.4 dB at 2.169 GHz  
Remarks:

### Antenna Terminal Disturbance Voltage 30 MHz - 1,000 MHz

The requirements are ☐ - MET ☐ - NOT MET  
Minimum limit margin dB at MHz  
Remarks:

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## GENERAL REMARKS:

The test sample was tested in (3) orthogonal planes and the data included within the report reflects the position which produced the highest emission levels.

The bandwidth plot on page (A5) clearly shows that the EUT meets the requirement of  $< (0.25\%)$  of the center frequency. The center frequency is (433.9) MHz and the maximum allowable bandwidth would be (433,900,000) multiplied by (0.0025) or (1,085,000) Hz. The (20) dB down points on the plot show the bandwidth to be approximately (300) kHz.

## SUMMARY:

The requirements according to the technical regulations are

■ - met

□ - not met.

The device under test does

■ - fulfill the general approval requirements mentioned on page 3.

□ - not fulfill the general approval requirements mentioned on page 3.

Testing Start Date 02/26/2003

Testing End Date: 03/27/2003

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Test-setup photo(s):

Conducted emission 450/150 kHz - 30 MHz

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Test-setup photo(s):  
Radiated emission 30 MHz - 1000 MHz



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# **APPENDIX**

## **A**

### **Test Equipment Calibration Information & Test Data Sheets**

## TEST EQUIPMENT CALIBRATION INFORMATION

| Manufacturer      | Model   | Description             | Serial Number | Cal Due  |
|-------------------|---------|-------------------------|---------------|----------|
| Hewlett Packard   | 8566B   | Spectrum Analyzer       | 2421A00526    | 08/22/03 |
| Hewlett Packard   | 85662A  | Display                 | 2403A07352    | 08/22/03 |
| Hewlett Packard   | 85650A  | Quasi-Peak Adapter      | 2043A00209    | 08/22/03 |
| Hewlett Packard   | 8447D   | Preamp 0.1 - 1,000 MHz  | 2944A06832    | 11/13/03 |
| Hewlett Packard   | 8568B   | Spectrum Analyzer       | 2407A03213    | 08/22/03 |
| Hewlett Packard   | 85662A  | Display                 | 2340A05806    | 08/22/03 |
| Hewlett Packard   | 85650A  | Quasi-Peak Adapter      | 2043A00358    | 08/22/03 |
| Hewlett Packard   | 8447D   | Preamp 0.1 - 1,000 MHz  | 2944A06901    | 08/02/03 |
| Hewlett Packard   | 8447D   | Preamp 0.1 - 1,000 MHz  | 1937A03247    | 07/19/03 |
| Hewlett Packard   | 8449B   | Preamp 1 - 26.5 GHz     | 3008A00320    | 11/08/03 |
| Hewlett Packard   | 8648B   | Signal Generator        | 3443U00312    | 04/25/03 |
| Hewlett Packard   | 8672A   | Signal Generator        | 2211A02426    | 11/14/03 |
| Eaton             | 96005   | Log Periodic Antenna    | 1099          | 01/24/04 |
| Electro-Metrics   | LPA 30  | Log Periodic Antenna    | 2280          | 12/06/03 |
| Electro-Metrics   | BIA 30  | Biconical Antenna       | 3852          | 12/05/03 |
| Electro-Metrics   | BIA 25  | Biconical Antenna       | 4283          | 01/22/04 |
| Electro-Mechanics | 3115    | Double Ridge Guide Ant. | 3810          | 11/07/03 |
| Electro-Metrics   | ALR30M  | Magnetic Loop Antenna   | 824           | 12/12/03 |
| Solar             | 8012    | LISN                    | 924840        | 12/29/03 |
| Solar             | 8028    | LISN                    | 829012/809022 | 12/19/03 |
| Solar             | 8028    | LISN                    | 903725/903726 | 11/18/03 |
| Schwartzbeck      | MDS-21  | Absorbing Clamp         | 02581         | 09/13/03 |
| Leader            | LFG1310 | Function Generator      | 8060233       | 04/23/03 |
| Holaday Ind.      | HI 4422 | Isotropic Probe         | 90310         | 05/22/03 |
| IFR Systems       | A-8000  | Spectrum Analyzer       | 1306          | 11/13/03 |
| Fischer Custom    | F-33-1  | RF Current Probe        | 360           | 11/20/03 |
| Electro-Metrics   | EMC-30  | EMI Receiver            | 191           | 04/23/03 |
| Boonton           | 4220A   | RF Power Meter          | 204103AA      | 11/08/03 |
| Boonton           | 51011   | RF Power Meter          | 28823         | 11/08/03 |

# Radiated Emissions Test Data

FCC ID:QY7ADM625

| Freq<br>MHz | Level<br>RAW<br>dBuV | Preamp<br>Gain &<br>Cable<br>Losses | ACF  | dBuV/<br>m | Avg<br>Adj. | Adj<br>dBuV/<br>m | Limit | Delta<br>Limit<br>(DB) |
|-------------|----------------------|-------------------------------------|------|------------|-------------|-------------------|-------|------------------------|
| 433.9       | 69.0                 | -24.5                               | 16.5 | 61.0       | -3.0        | 58.0              | 72.8  | -14.8                  |
| 867.9       | 52.7                 | -22.3                               | 22.8 | 53.2       | -3.0        | 50.2              | 52.8  | -2.6                   |
| 1,301       | 50.8                 | -28.3                               | 26.9 | 49.4       | -3.0        | 46.4              | 52.8  | -6.4                   |
| 1,735       | 46.5                 | -26.9                               | 28.0 | 47.6       | -3.0        | 44.6              | 52.8  | -8.2                   |
| 2,169       | 50.1                 | -26.1                               | 29.4 | 53.4       | -3.0        | 50.4              | 52.8  | -2.4                   |
| 2,602       | 33.2                 | -24.1                               | 31.0 | 40.1       | -3.0        | 37.1              | 52.8  | -15.7                  |
| 3,036       | 35.0                 | -23.9                               | 31.7 | 42.8       | -3.0        | 39.8              | 52.8  | -13.0                  |
| 3,470       | 37.0                 | -20.7                               | 32.8 | 49.1       | -3.0        | 46.1              | 52.8  | -6.7                   |
| 3,904       | 35.0                 | -21.6                               | 34.4 | 47.8       | -3.0        | 44.8              | 52.8  | -8.0                   |
| 4,338       | 35.5                 | -20.4                               | 33.7 | 48.8       | -3.0        | 45.8              | 52.8  | -7.0                   |

## Method of calculating the average field strength

The FCC rules state the following in Part 15.35(C):

“(c) Unless otherwise specified, e.g. §15.255(b), when the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subject to Declaration of Conformity or verification.”

The formula for calculating the average field strength level when compared to a peak field strength level is:  $(20 \log (\text{peak on time} / \text{total pulse train}))$

The calculations we used were based on the following (5) pulse train plots.

The length of the entire pulse train is (61.6) ms as shown in plot # 1.

Plot # 1 also shows a large “on” pulse which is approximately (10) ms followed by a short “off” pulse approximately (2) ms in duration.

The largest “off” portion of the pulse train is (7.8) ms as shown in plot # 2.

The portion of the pulse train with approximately (67) pulses is shown in plot # 3.

The largest “on” pulse of the (67) pulses is shown in plot # 4 at (440) us.

The smallest “off” pulse of the (67) pulses is shown in plot # 5 at (180) us.

To calculate the total on time within the (61.6) ms pulse train, we start by multiplying the (67) “on” pulses of (440) us and get (29.5) ms. We then add the (10) ms large “on” pulse and get a total of (39.5) ms of “on” time.

$$(20 \log(39.5 / 61.6)) = (-3.859) \text{ dB}$$

The average field strength levels were adjusted by subtracting (3.9) dB from the peak field strength level.



PRODUCT SAFETY ENGINEERING

MKR  $\Delta$  297.0 KHZ

REF 72.7 dB $\mu$ V ATTN 0 dB

0.00 dB

5 dB/

POS PK

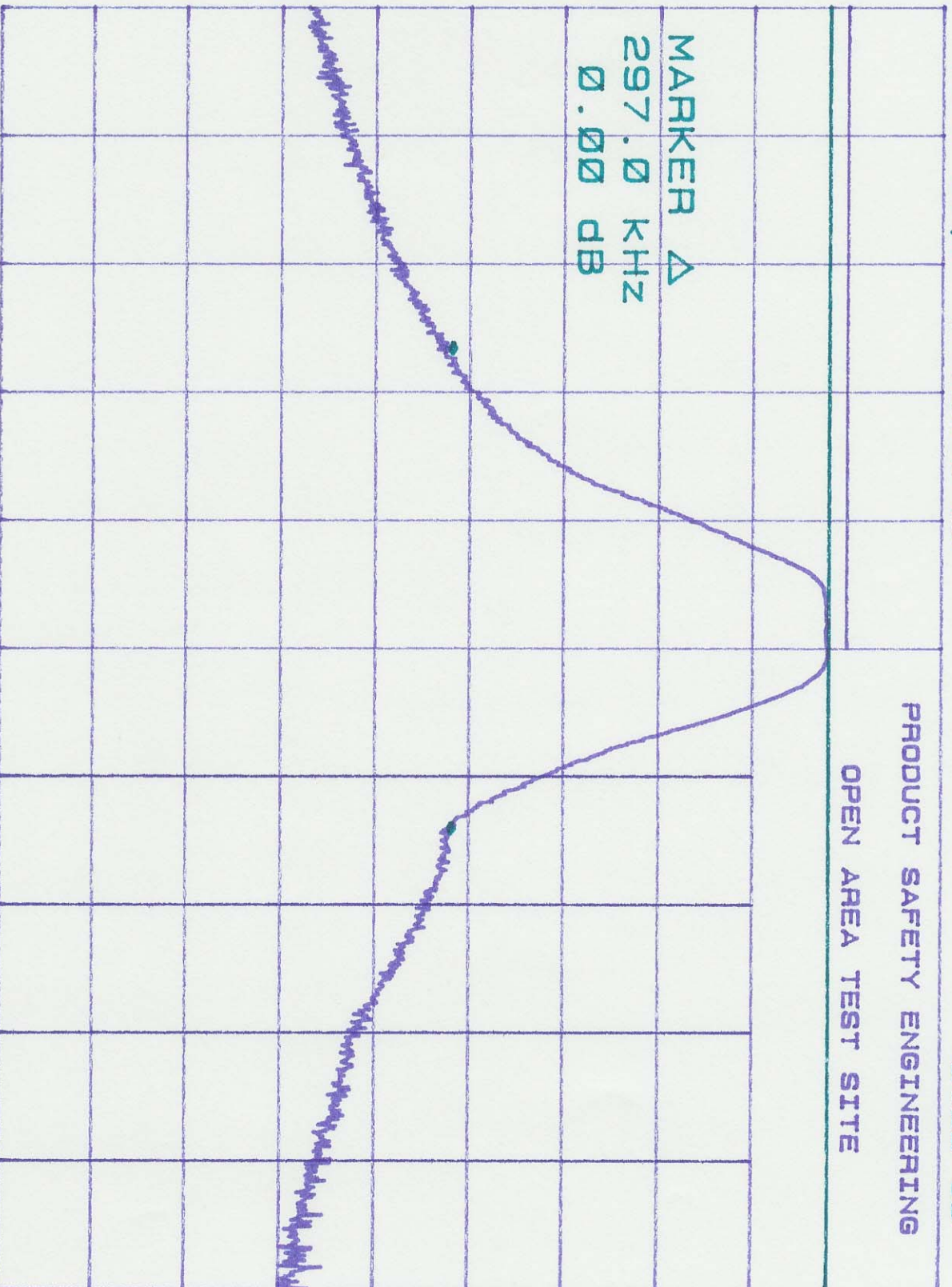
PRODUCT SAFETY ENGINEERING

OPEN AREA TEST SITE

MARKER  $\Delta$

297.0 KHZ

DL  
66.7  
dB $\mu$ V



CENTER 433.966 MHz

RES BW 1 MHz

VBW 1 MHz

SPAN 792 KHZ

SMP 100 msec

A5

# **APPENDIX**

## **B**

### **System Under Test Description**

**SYSTEM COMPONENTS**  
\*\*\*\*\*

DEVICE TYPE: EUT, model 921300

\*\*\*\*\*

DEVICE TYPE:

\*\*\*\*\*

DEVICE TYPE:

\*\*\*\*\*

DEVICE TYPE:

FCC ID#:

\*\*\*\*\*

DEVICE TYPE:

\*\*\*\*\*

DEVICE TYPE:

FCC ID#:

\*\*\*\*\*

DEVICE TYPE:

\*\*\*\*\*