



## EMC Test Data

|                 |                            |               |            |
|-----------------|----------------------------|---------------|------------|
| Client:         | Standard Communications    | Job Number:   | J41061     |
| Model:          | CMM7700 & 8700             | T-Log Number: | T41217     |
|                 |                            | Proj Eng:     | David Bare |
| Contact:        | Micheal Malin              |               |            |
| Emissions Spec: | 2.1091 MPE: mobile devices | Class:        | N/A        |
| Immunity Spec:  |                            | Environment:  |            |

## EMC Test Data

For The

**Standard Communications**

Model

**CMM7700 & 8700**



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| Spec:    | 2.1091 MPE: mobile devices | Class:        | N/A        |

### RF Hazard (Section 2.1091): Mobile Devices

#### Test Specifics

Objective: This test is required per FCC rule part 2 certification procedure. The objective of this test session is to perform final qualification testing the EUT relative to the specification(s) defined above.

Date of Test: 4/11/01  
Test Engineer: jmartinez  
Test Location: Chamber #1

Config. Used: 1  
Config Change: None  
EUT Voltage: 12 and 5 Vdc

#### General Test Configuration

The EUT was located on the turntable for MPE evaluation testing. The transmit antenna was placed in the middle of the table. The Probe was placed 20 cm from the antenna. Tests were performed inside a Chamber.

#### Ambient Conditions:

Temperature: 25°C  
Rel. Humidity: 45%

#### Summary of Results

| Run # | Test Performed         | Limit                   | Result | Margin                   |
|-------|------------------------|-------------------------|--------|--------------------------|
| 1     | MPE Routing Evaluation | .549 mW/cm <sup>2</sup> | Pass   | Refer to individual runs |
| 2     | MPE Routing Evaluation | .549 mW/cm <sup>2</sup> | Pass   | Refer to individual runs |

**Modifications Made During Testing:** None



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Job Number: J41061

Model: CMM7700 & 8700

T-Log Number: T41217

Proj Eng: David Bare

Contact: Micheal Malin

Spec: 2.1091 MPE: mobile devices

Class: N/A

### Section 1.1310 RF Hazard MPE limits

Uncontrolled/polupoaded

**Frequency (MHz)**      **Limit (mW/cm<sup>2</sup>)**  
300 - 1500 MHz      Freq. / 1500

824 MHz / 1500 = .549 mw/cm<sup>2</sup>

### Run #1: RF Hazard Evaluation Test

Fundamental frequency: 831.99 MHz

| Measured           | Position | 1.1310                         |        | Comment |
|--------------------|----------|--------------------------------|--------|---------|
| mW/cm <sup>2</sup> | Degrees  | Limit<br>(mW/cm <sup>2</sup> ) | Margin | Note    |
| 0.485              | 0        | 0.549                          | -0.064 | 1 and 2 |
| 0.385              | 90       | 0.549                          | -0.164 | 1 and 2 |
| 0.365              | 180      | 0.549                          | -0.184 | 1 and 2 |
| 0.525              | 270      | 0.549                          | -0.024 | 1 and 2 |

Note 1: Measured at 20 cm distance as required by OET 65 C, procedure for RF Hazard evaluation for mobile devices

Note 2: Modulation applied and set to maximum output power.

### Run #2: RF Hazard Evaluation Test

Fundamental frequency: 831.99 MHz

| Measured           | Position | 1.1310                         |        | Comment |
|--------------------|----------|--------------------------------|--------|---------|
| mW/cm <sup>2</sup> | Degrees  | Limit<br>(mW/cm <sup>2</sup> ) | Margin | Note    |
| 0.520              | 0        | 0.549                          | -0.029 | 1 and 2 |
| 0.410              | 90       | 0.549                          | -0.139 | 1 and 2 |
| 0.470              | 180      | 0.549                          | -0.079 | 1 and 2 |
| 0.518              | 270      | 0.549                          | -0.031 | 1 and 2 |

Note 1: Measured at 20 cm distance as required by OET 65 C, procedure for RF Hazard evaluation for mobile devices

Note 2: CW only and set to maximum output power.

MPE measuremetns, 12-Apr-01 09:26 AM

Engineer: jmartinez

| <u>Manufacturer</u> | <u>Description</u>                             | <u>Model #</u> | <u>Assett #</u> | <u>Cal interval</u> | <u>Last Calibrated</u> | <u>Cal Due</u> |
|---------------------|------------------------------------------------|----------------|-----------------|---------------------|------------------------|----------------|
| Holaday Industries  | Field Probe 200KHz - 40GHz                     | HI-4455        | 910             | 12                  | 4/28/00                | 4/28/01        |
| Hewlett Packard     | Microwave EMI test system (SA40, 30Hz - 40GHz) | 84125C         | 1149            | 12                  | 2/5/01                 | 2/5/02         |
| Hewlett Packard     | Frequency Generator, 10 Hz-10MHz               | 651B           | 164, (F132      | N/A                 |                        |                |