

**QUESTION 6: Theoretical Process Gain**

The theoretical process gain is 10.4dB (minimum).

Data rate is 1Mbps.

Sequence length is 11 – 15 chips (software configurable).

The spread spectrum chip manufacturer is Intersil (formerly Harris).

Question 7: Internal photos' of both sides of all circuit boards without shielding.

**QUESTION 8: Radiated E Field Emissions Measurements Restricted Band**

**RADIATED E FIELD EMISSION MEASUREMENTS RESTRICTED BAND**  
**2483.5 – 2500 MHz**

**CUSTOMER: M/A-COM**

**EQUIPMENT: OPENSKY ISM RADIO WITH**  
 Pacific Wireless PMANT25-HD-PF1

**TESTED BY: ROBERT FOSTER**

**OPERATING MODE: RECEIVE MODE**

**BANDWIDTH: 100 kHz (PEAK)/120 kHz (QP) AND**  
**1MHz PEAK**

**FREQUENCY RANGE: 2483.5 – 2500 MHz**

**DATE: JUNE 5, 2001**

**TEST NUMBER: 1**

**TEST SPEC: FCC PART 15 SUBPART B CLASS B**

**PROCEDURE: ANSI C63.4**

**ANTENNA DISTANCE: 3 METERS**

FREQUENCY MHz	PEAK MEASURED LEVEL -dBm	QUASI- PEAK MEASURED LEVEL dBuV	ANTENNA HEIGHT (METERS)	TURNTABLE AZIMUTH (DEGREES)	ANTENNA H/V	ANTENNA FAC/CABLE LOSS dB	FIELD LEVEL dBuV/m $\star$	LIMIT dBuV/m (QP)
No Signals Detected in restricted band.								

★All signals greater than 3dB from the limit are calculate to the nearest whole number.

★Field Level (dBuV/m) = [107 – Measured level (dBm)] + Antenna Factor/Cable Loss (dB)

Ambient Temperature: 68°F

Humidity: 25 %

Atmospheric Pressure: 29.8 "

**NOTES: \* =**

**RADIATED E FIELD EMISSION MEASUREMENTS RESTRICTED BAND**  
**2483.5 – 2500 MHz**

**CUSTOMER: M/A-COM**

**EQUIPMENT: OPENSKY ISM RADIO WITH**  
 M/A-Com, M/N ANAD-159W-A-10-SM

**TESTED BY: ROBERT FOSTER**

**OPERATING MODE: RECEIVE MODE**

**BANDWIDTH: 100 kHz (PEAK)/120 kHz (QP) AND**  
**1MHz PEAK**

**FREQUENCY RANGE: 2483.5 – 2500 MHz**

**DATE: JUNE 5, 2001**

**TEST NUMBER: 1**

**TEST SPEC: FCC PART 15 SUBPART B CLASS B**

**PROCEDURE: ANSI C63.4**

**ANTENNA DISTANCE: 3 METERS**

FREQUENCY MHz	PEAK MEASURED LEVEL -dBm	QUASI- PEAK MEASURED LEVEL dBuV	ANTENNA HEIGHT (METERS)	TURNTABLE AZIMUTH (DEGREES)	ANTENNA H/V	ANTENNA FAC/CABLE LOSS dB	FIELD LEVEL dBuV/m $\star$	LIMIT dBuV/m (QP)
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Ambient Temperature: 68°F

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NOTES: \* =

**RADIATED E FIELD EMISSION MEASUREMENTS RESTRICTED BAND  
2483.5 – 2500 MHz**

**CUSTOMER: M/A-COM**

**DATE: JUNE 5, 2001**

**EQUIPMENT: OPENSKY ISM RADIO WITH**

**TEST NUMBER: 1**

M/A-Com ANCC-156A-S-12-NM

**TESTED BY: ROBERT FOSTER**

**TEST SPEC: FCC PART 15 SUBPART B CLASS B**

**OPERATING MODE: RECEIVE MODE**

**PROCEDURE: ANSI C63.4**

**BANDWIDTH: 100 kHz (PEAK)/120 kHz (QP) AND**

**1MHz PEAK**

**FREQUENCY RANGE: 2483.5 – 2500 MHz**

**ANTENNA DISTANCE: 3 METERS**

FREQUENCY MHz	PEAK MEASURED LEVEL -dBm	QUASI- PEAK MEASURED LEVEL dBuV	ANTENNA HEIGHT (METERS)	TURNTABLE AZIMUTH (DEGREES)	ANTENNA H/V	ANTENNA FAC/CABLE LOSS dB	FIELD LEVEL dBuV/m ☆	LIMIT dBuV/m (QP)
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Ambient Temperature: 68°F

Humidity: 25 %

Atmospheric Pressure: 29.8 "

NOTES: \* =

**FORM CTS-DS-001R**  
**RADIATED E FIELD EMISSION MEASUREMENTS RESTRICTED BAND  
2483.5 – 2500 MHz**

**CUSTOMER: M/A-COM**

**DATE: JUNE 5, 2001**

**EQUIPMENT: OPENSKY ISM RADIO WITH**

**TEST NUMBER: 1**

MAXRAD MFB24006

**TESTED BY: ROBERT FOSTER**

**TEST SPEC: FCC PART 15 SUBPART B CLASS B**

**OPERATING MODE: RECEIVE MODE**

**PROCEDURE: ANSI C63.4**

**BANDWIDTH: 100 kHz (PEAK)/120 kHz (QP) AND**

**1MHz PEAK**

**FREQUENCY RANGE: 2483.5 – 2500 MHz**

**ANTENNA DISTANCE: 3 METERS**

FREQUENCY MHz	PEAK MEASURED LEVEL -dBm	QUASI- PEAK MEASURED LEVEL dBuV	ANTENNA HEIGHT (METERS)	TURNTABLE AZIMUTH (DEGREES)	ANTENNA H/V	ANTENNA FAC/CABLE LOSS dB	FIELD LEVEL dBuV/m ☆	LIMIT dBuV/m (QP)
No Signals Detected in restricted band.								

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★Field Level (dBuV/m) = [107 – Measured level (dBm)] + Antenna Factor/Cable Loss (dB)

Ambient Temperature: 68°F

Humidity: 25 %

Atmospheric Pressure: 29.8 "

NOTES: \* =

**FORM CTS-DS-001R**  
**RADIATED E FIELD EMISSION MEASUREMENTS RESTRICTED BAND**  
**2483.5 – 2500 MHz**

**CUSTOMER: M/A-COM**

**EQUIPMENT: OPENSKY ISM RADIO WITH  
MAXRAD MFB24008**

**TESTED BY: ROBERT FOSTER**

**OPERATING MODE: RECEIVE MODE**

**BANDWIDTH: 100 kHz (PEAK)/120 kHz (QP) AND  
1MHz PEAK**

**FREQUENCY RANGE: 2483.5 – 2500 MHz**

**DATE: JUNE 5, 2001**

**TEST NUMBER: 1**

**TEST SPEC: FCC PART 15 SUBPART B CLASS B**

**PROCEDURE: ANSI C63.4**

**ANTENNA DISTANCE: 3 METERS**

FREQUENCY MHz	PEAK MEASURED LEVEL -dBm	QUASI- PEAK MEASURED LEVEL dBuV	ANTENNA HEIGHT (METERS)	TURNTABLE AZIMUTH (DEGREES)	ANTENNA H/V	ANTENNA FAC/CABLE LOSS dB	FIELD LEVEL dBuV/m $\star$	LIMIT dBuV/m (QP)
No Signals Detected in restricted band.								

★All signals greater than 3dB from the limit are calculate to the nearest whole number.

★Field Level (dBuV/m) = [107 – Measured level (dBm)] + Antenna Factor/Cable Loss (dB)

Ambient Temperature: 68°F

Humidity: 25 %

Atmospheric Pressure: 29.8 "

**NOTES: \* =**

**RADIATED E FIELD EMISSION MEASUREMENTS RESTRICTED BAND**  
**2483.5 – 2500 MHz**

**CUSTOMER: M/A-COM**

**EQUIPMENT: OPENSKY ISM RADIO WITH  
MAXRAD MFB24010**

**DATE: JUNE 5, 2001**

**TEST NUMBER: 1**

**TESTED BY: ROBERT FOSTER**

**OPERATING MODE: RECEIVE MODE**

**BANDWIDTH: 100 kHz (PEAK)/120 kHz (QP) AND  
1MHz PEAK**

**FREQUENCY RANGE: 2483.5 – 2500 MHz**

**TEST SPEC: FCC PART 15 SUBPART B CLASS B**

**PROCEDURE: ANSI C63.4**

**ANTENNA DISTANCE: 3 METERS**

FREQUENCY MHz	PEAK MEASURED LEVEL -dBm	QUASI- PEAK MEASURED LEVEL dBuV	ANTENNA HEIGHT (METERS)	TURNTABLE AZIMUTH (DEGREES)	ANTENNA H/V	ANTENNA FAC/CABLE LOSS dB	FIELD LEVEL dBuV/m $\star$	LIMIT dBuV/m (QP)
No Signals Detected in restricted band.								

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Ambient Temperature: 68°F

Humidity: 25 %

Atmospheric Pressure: 29.8 "

**NOTES: \* =**

**FORM CTS-DS-001R**

### 3.1.6 Photographic Documentation

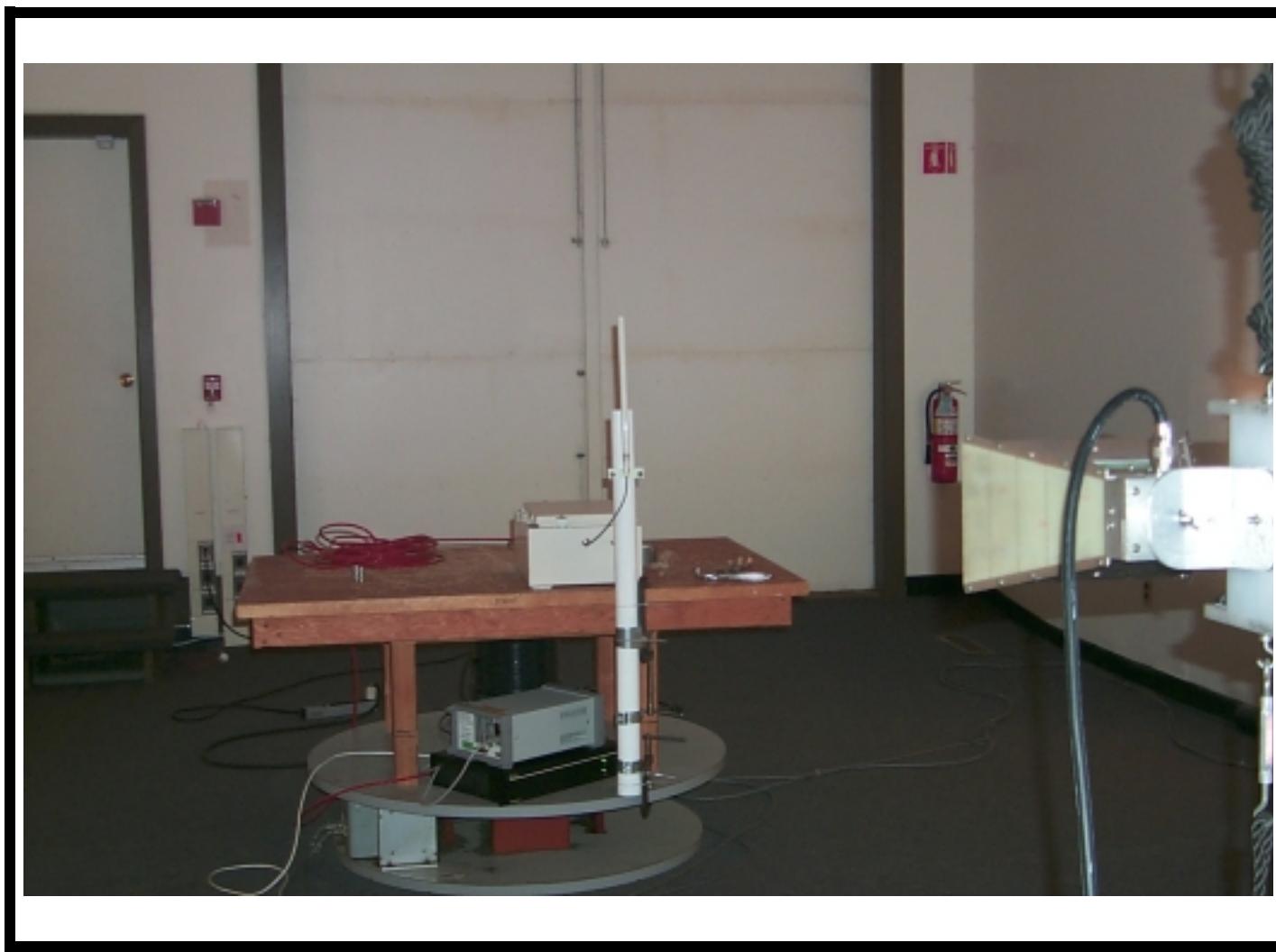
CUSTOMER: M/A-COM

EQUIPMENT: OPENSKY ISM RADIO

TESTED BY: ROBERT FOSTER

DATE: 06/05/01

TEST NUMBER: 1



Photograph Description: Radiated set-up

FORM CTS-PHOTO

**QUESTION 9: Information on Repeater**

Signals from valid sources are encoded. Only properly encoded incoming signals are retransmitted.

FCC Identifiers for the transmitters that the device is used with when in the repeater mode are: BV8MCS800A025 and BV8MTT800A025.,