



ANYDATA.NET INC. TEST REPORT
FOR THE
CDMA DATA MODEM W/ DTSS-800
FCC PART 15 SUBPART B SECTIONS 15.107 AND 15.109 CLASS B
AND
FCC PART 22
COMPLIANCE

DATE OF ISSUE: FEBRUARY 28, 2002

PREPARED FOR:

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Hanvit Bank Bldg. 7th Fl., 1-12 Byulyang-dong
Kwachon City, Kyunggi-do, Korea, 427-040

P.O. No.: ANY-0008
W.O. No.: 78420

PREPARED BY:

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Date of test: February 19 –
March 22, 2002

Report No.: FC02-023

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CKC Laboratories, Inc. has received Certificates of Accreditation from the following agencies:

A2LA (USA); BSMI (Taiwan); Nemko (Norway); and GOST (Russia).

CKC Laboratories, Inc has received test site Registration Acceptance from the following agencies:

FCC (USA); VCCI (Japan); and Industry Canada.

CKC Laboratories, Inc. has received Letters of Acceptance through an MRA for the following agencies:

ACA/NATA (Australia); SABS (South Africa); SWEDAC (Sweden); Radio Communications Agency (RA); HOKLAS (Hong Kong); Bakom (Swiss); BIPT (Belgium); Denmark Telestyrelsen; RvA (Netherlands); SEE (Luxembourg) SITTEL (Bolivia); and UKAS (UK).

ADMINISTRATIVE INFORMATION

DATE OF TEST: February 19 – March 22, 2002

DATE OF RECEIPT: February 19, 2002

PURPOSE OF TEST: To demonstrate the compliance of the CDMA Data Modem w/ DTSS-800 with the requirements for Part 15 Subpart B Sections 15.107 and 15.109 Class B and FCC Part 22 devices.

TEST METHOD: ANSI C63.4 (1992), FCC Part 22, TIA/EIA 603, TIA/EIA 95A

FREQUENCY RANGE TESTED: 9 kHz - 9 GHz

MANUFACTURER: AnyDATA.NET Inc.
Hanvit Bank Bldg. 7th Fl., 1-12 Byulyang-dong
Kwachon City, Kyunggi-do, Korea, 427-040

REPRESENTATIVE: John Kim

TEST LOCATION: CKC Laboratories, Inc.
110 Olinda Place, Brea, CA 92621
5473A Clouds Rest, Mariposa, CA 95338

SUMMARY OF RESULTS

As received, the AnyDATA.NET Inc. CDMA Data Modem w/ DTSS-800 was found to be fully compliant with the following standards and specifications:

United States

- FCC Part 15 Subpart B Sections 15.107 and 15.109 Class B using:
 - ANSI C63.4 (1992) method
- FCC Part 22 also using TIA/EIA 603, TIA/EIA 95A

CONDITIONS FOR COMPLIANCE

No modifications to the EUT were necessary to comply.

APPROVALS

QUALITY ASSURANCE:



Dennis Ward, Quality Manager



Septimiu Apahidean, EMC/Lab Manager



Chuck Kendall, EMC/Lab Manager

TEST PERSONNEL:



Randy Clark, EMC Engineer



Eddie Wong, EMC Engineer

EQUIPMENT UNDER TEST (EUT) DESCRIPTION

The EUT tested by CKC Laboratories was representative of a production unit. External CDMA Data Modem Transceiver.

EQUIPMENT UNDER TEST

CDMA Data Modem w/ DTSS-800

Manuf: AnyDATA.NET Inc.
Model: EMII-800
Serial: 0201K10210
FCC ID: P4M (pending)

PERIPHERAL DEVICES

The EUT was tested with the following peripheral device(s):

Laptop

Manuf: Samsung
Model: Academy 680
Serial: 558791ANB00124
FCC ID: DoC

TEMPERATURE AND HUMIDITY DURING TESTING

The temperature during testing was within +15°C and + 35°C.
The relative humidity was between 20% and 75%.

MEASUREMENT UNCERTAINTY

Associated with data in this report is a ± 2.94 dB measurement uncertainty for radiated emissions and ± 1.56 dB measurement uncertainty for conducted emissions.

2.1033(c)(3) USER'S MANUAL

The necessary information is contained in a separate document.

2.1033 (c)(4) TYPE OF EMISSIONS

The necessary information is contained in a separate document.

2.1033(c)(5) FREQUENCY RANGE

Transmits on 824 – 849 MHz.

Receives on 869 – 894 MHz.

2.1033(c)(6) OPERATING POWER

The maximum ERP power allowed is .4467 Watts.

2.1033(c)(7) MAXIMUM POWER RATING

The ERP of mobile transmitter and auxiliary test transmitter must not exceed 7 Watts.

2.1033(c)(8) DC VOLTAGES

The dc voltages are 6-12V DC.

2.1033(c)(9) TUNE-UP PROCEDURE

The necessary information is contained in a separate document.

2.1033(c)(10) SCHEMATICS AND CIRCUITRY DESCRIPTION

The necessary information is contained in a separate document.

2.1033(c)(11) LABEL AND PLACEMENT

The necessary information is contained in a separate document.

2.1033(c)(12) SUBMITTAL PHOTOS

The necessary information is contained in a separate document.

2.1033(c)(13) MODULATION INFORMATION

The necessary information is contained in a separate document.

2.1033(c)(14)/2.1046(a)/22.913 - RF POWER OUTPUT

Effective Radiated Power Limit (Effective Radiated Power)

Antenna Substitution method (TIA/EIA 603 Par 2.2.17) was used. The peak RF field strength of the EUT was first measured with a tune dipole antenna. The EUT is then replaced with a transmitting tuned Dipole antenna. A signal generator fed RF signal to the transmitting antenna via a RF power amplifier. The signal level of the signal generator was adjusted to produce RF field strength equal to the transmitted field strength of the EUT.

The signal level is recorded as ERP after applicable RF power amplifier gain (+54.4 dB) and Cable Loss (-2.4 dB).

RWB=VBW= 3MHz

Spec limit : *The ERP of mobile transmitter and auxiliary test transmitter must not exceed 7 Watts.*

| Freq in MHz | Sig Gen Level dBuV (with correction) | ERP (Watts) |
|-------------|---|----------------|
| 824.038 | 136.5 | 0.4467 |
| 836.516 | 136.2 | 0.4169 |
| 848.974 | 135.6 | 0.3631 |

Data Conversion:

dBuV to V

$$V = 1 \times 10^{-6} \times \text{Anti Log } 10 (\text{dBuV} / 20)$$

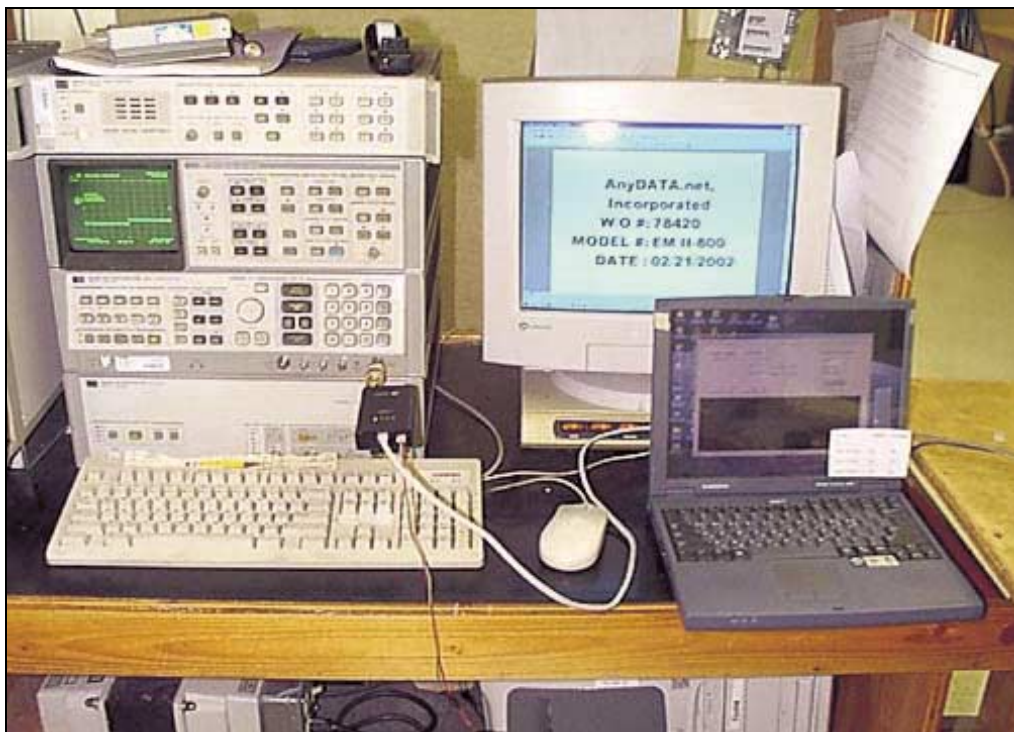
$$\begin{aligned} \text{Power} &= V^2 / R \\ &= V^2 / 50 \end{aligned}$$

Carrier Output Power to Antenna

RF power to antenna was measured at the antenna terminal using a power meter.

| Freq in MHz | Power |
|-------------|-------|
| | Watts |
| 824.07 | 0.44 |
| 836.54 | 0.33 |
| 848.97 | 0.38 |

| Equipment | Asset # | Manufacturer | Model # | Serial # | Cal Date | Cal Due |
|-------------------|---------|--------------|----------|------------|----------|---------|
| Spectrum Analyzer | 01865 | HP | 8566B | 2532A02509 | 092801 | 092802 |
| Signal Generator | 00089 | HP | 8656A | 2245A04166 | 090201 | 090602 |
| Power Meter | 02082 | HP | 435B | 2445A11881 | 082101 | 032102 |
| Amplifier | 00627 | AR | 50W1000A | 14335 | 010402 | 010403 |



Direct Connect Test Setup



Direct Connect Test Setup

**2.1033(c)(14)/2.1047(a)/22.915(a) - MODULATION CHARACTERISTICS - AUDIO
FREQUENCY RESPONSE**

The necessary information is contained in a separate document.

**2.1033(c)(14)/2.1047(b)/22.915(a) MODULATION CHARACTERISTICS – Modulation
Limiting Response**

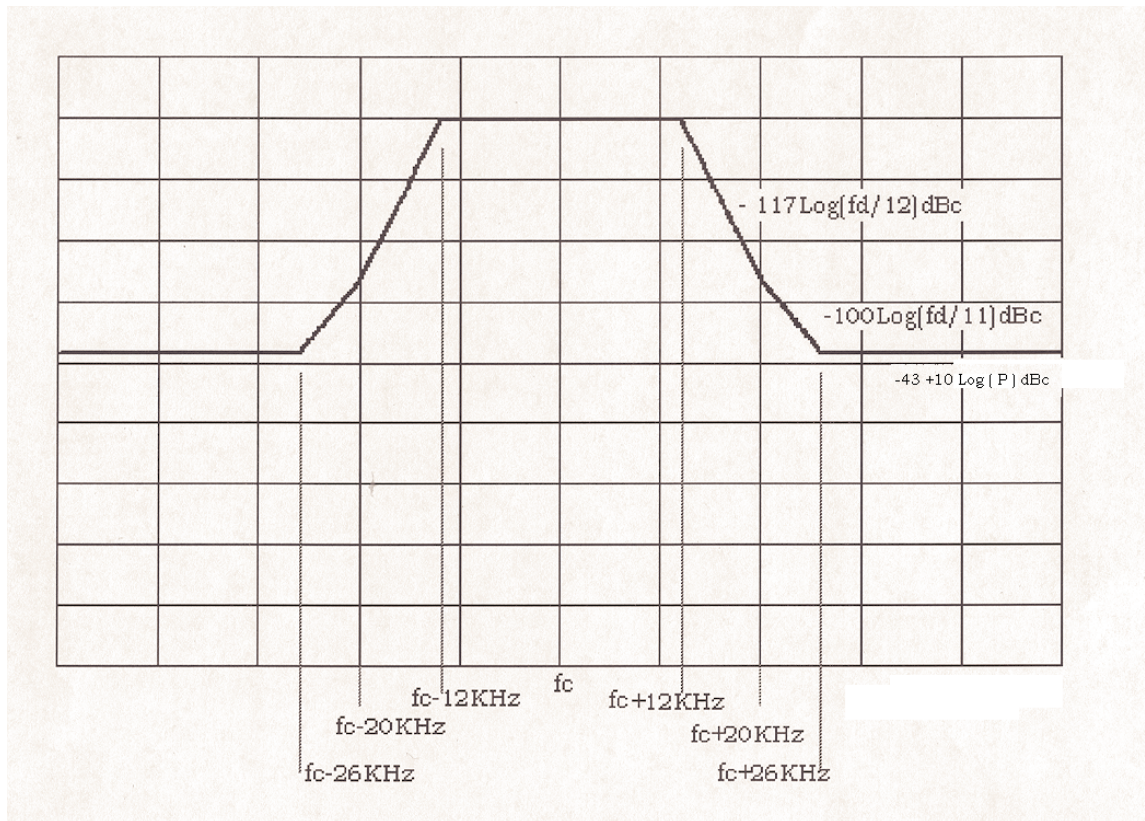
The necessary information is contained in a separate document.

2.1033(c)(14)/2.1049(i)/22.917(c)- EMISSIONS MASK & OCCUPIED BANDWIDTH

Alternative F3E/F3D emission mask Calculation

- 1 The mean power of any emission removed from the carrier frequency by a displacement frequency (F_d in kHz) must be attenuated below the mean power of un-modulated carrier (P) as follows
 - (i) On any frequency removed from the carrier frequency by more than 12 kHz but not more than 20 kHz: at least $117 \text{ Log} (F_d / 12)$ dB;
 - (ii) On any frequency removed from the carrier frequency by more than 20 kHz, up to the first multiple of the carrier frequency: at least $100 \text{ Log}(f_d/11)$ dB or 60 dB or $43+10 \text{ Log } P$ which ever is the lesser attenuation.

- 2 For mobile stations, modulating signal other than the supervisory audio tone in the frequency range of 5.9 to 6.1 kHz must be attenuated, relative to the level at 1 kHz , at least 35 dB.



Calculation:

(i) For $12 \text{ KHz} < F_d < 20 \text{ KHz}$,
 Attenuation = $117 \text{ Log} (F_d/12) \text{ dB}$.

(ii) For $20 \text{ KHz} < F_d < F_c \times 2$,

Attenuation = 100 Log (Fd/11) dB

or

Attenuation = 60 dB

or

Attenuation = 43 + 10 Log P

Whichever is the lesser attenuation.

Applying customer supplied rated EUT power of 0.316 Watts,

$$\begin{aligned} \text{Attenuation} &= 43 + 10 \text{ Log } P \\ &= 43 + 10 \text{ Log } 0.326 \\ &= 38 \text{ dB} \end{aligned}$$

Therefore : attenuation of 60 dB is not used.

To determine F_d , where the attenuation of $43+10\text{Log } P$ occurs,

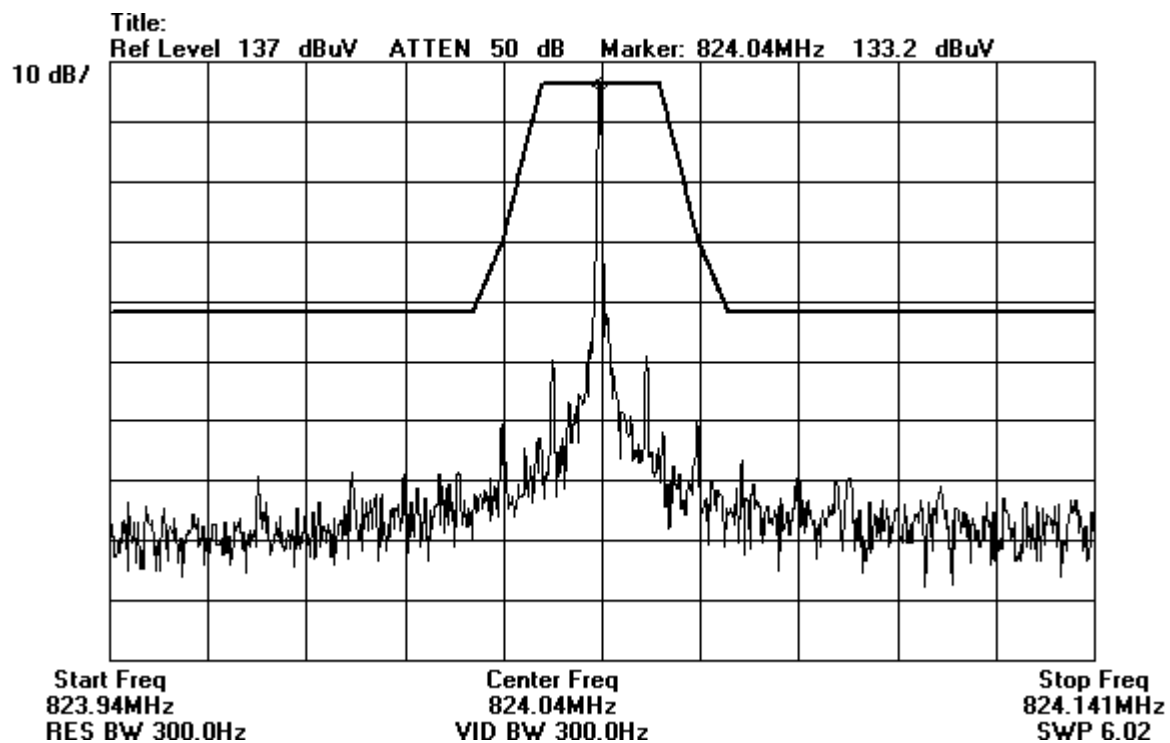
$$\begin{aligned} 43 + 10 \text{ Log } P &= 100 \text{ Log} (F_d/11) \\ F_d &= 11 \times \text{AntiLog} (10) \frac{43 + 10 \text{ Log } P}{100} \\ F_d &= 26 \text{ KHz.} \end{aligned}$$

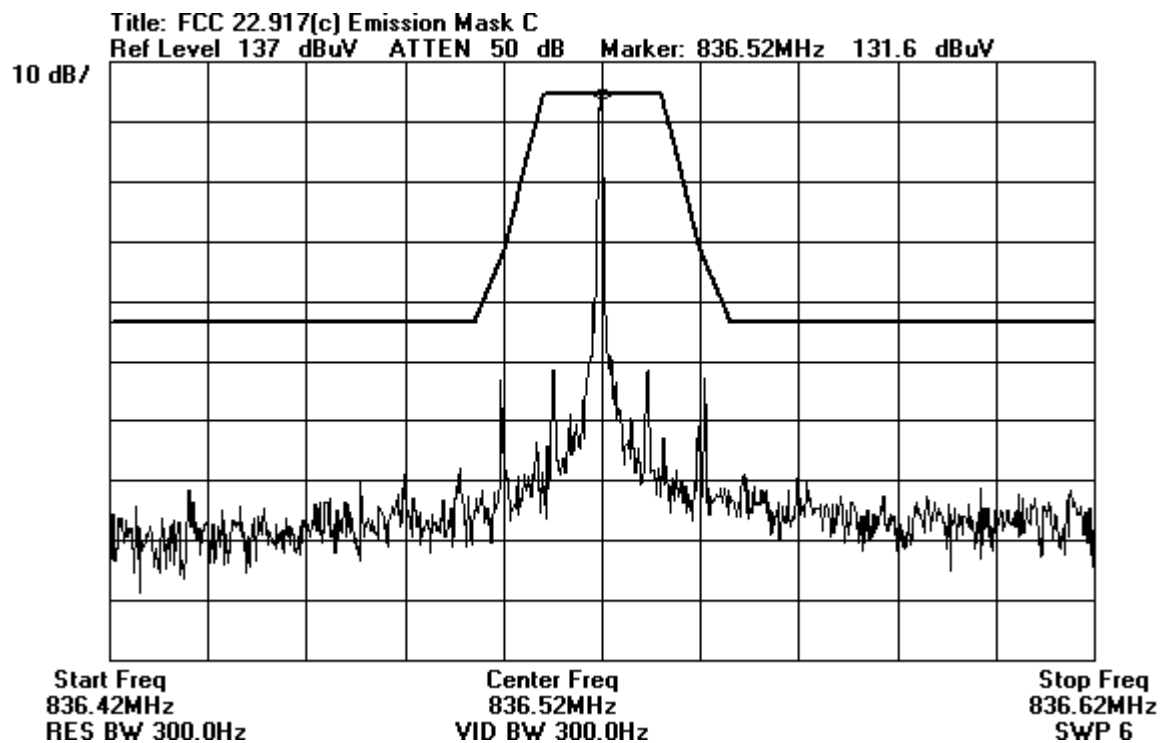
Therefore the breakpoint from a attenuation slope of $-100\text{Log}(F_d/11) \text{ dBc}$ to $43+10 \text{ Log } P$ occurs at $(F_c + 26 \text{ KHz})\text{MHz}$ and $(F_c - 26 \text{ KHz})\text{MHz}$

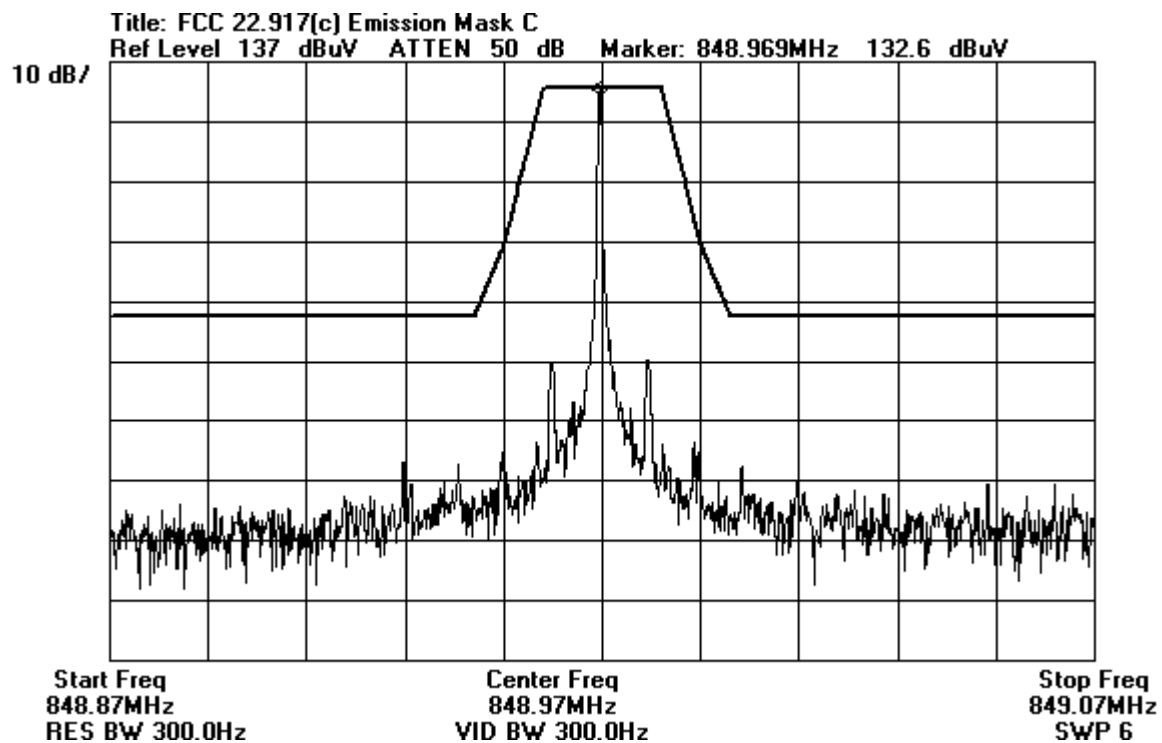
Sample calculation table:

| Freq (MHz) | Required attenuation | EMItest limit line |
|------------|----------------------|--------------------|
| 0.009 | 38.00 | 91.4 |
| 824.014 | 38.00 | 91.4 |
| 824.014 | 38.00003068 | 91.4 |
| 824.020 | 25.964 | 103.4 |
| 824.020 | 25.95630371 | 103.4 |
| 824.028 | 0.00 | 129.4 |
| 824.052 | 0.00 | 129.4 |
| 824.060 | 25.95630371 | 103.4 |
| 824.060 | 25.96373105 | 103.4 |
| 824.066 | 38.00003068 | 91.4 |
| 824.066 | 38.00 | 91.4 |
| 10000 | 38.00 | 91.4 |

Title: FCC 22.917(c) Emission Mask C







Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(c) Emission Mask OATS**
 Work Order #: **78420** Date: 2/22/02
 Test Type: **Maximized Emissions** Time: 11:57:33
 Equipment: **External CDMA Data Modem** Sequence#: 8
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=30kHz. Tx = 824.01MHz. Range of measurement 9 kHz - 30MHz. Required attenuation = $43+10\text{Log}(P) = 43+10\text{Log}(0.01262) = -24\text{dBc}$. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

| | |
|------------------------|---------------------|
| T1=Active Loop Antenna | T2=Cable #15 120602 |
|------------------------|---------------------|

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

| # | Freq MHz | Rdng dBµV | Reading listed by margin. | | | | Test Distance: 3 Meters | | | | |
|---|-------------|--------------|---------------------------|----------|--|--|-------------------------|----------------|----------------|--------------|--------------|
| | | | T1 dB | T2 dB | | | Dist Table | Corr dBµV/m | Spec dBµV/m | Margin dB | Polar Ant |
| 1 | 21.970M | 35.3 | +9.9 | +0.8 | | | +0.0 | 46.0 | 94.0 | -48.0 | None |
| | | | | | | | 42 | | | | 99 |

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(c) Emission Mask OATS**
 Work Order #: **78420** Date: 2/22/02
 Test Type: **Maximized Emissions** Time: 12:01:35
 Equipment: **External CDMA Data Modem** Sequence#: 9
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=30kHz. Tx = 836.52MHz Range of measurement 9 kHz - 30MHz. Required attenuation = $43+10\text{Log}(P) = 43+10\text{Log}(0.01384) = -24\text{dBc}$. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

| | |
|------------------------|---------------------|
| T1=Active Loop Antenna | T2=Cable #15 120602 |
|------------------------|---------------------|

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

| # | Freq MHz | Rdng dB μ V | T1 dB | T2 dB | Margin dB | Dist Table | Corr dB μ V/m | Spec dB μ V/m | Margin dB | Polar Ant |
|---|-------------|--------------------|----------|----------|--------------|---------------|----------------------|----------------------|--------------|--------------|
| 1 | 23.610M | 35.5 | +9.6 | +0.8 | | +0.0 296 | 45.9 | 94.0 | -48.1 | None 99 |

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(c) Emission Mask OATS**
 Work Order #: **78420** Date: 2/22/02
 Test Type: **Maximized Emissions** Time: 12:04:15
 Equipment: **External CDMA Data Modem** Sequence#: 10
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=30kHz. Tx = 849.97MHz. Range of measurement 9 kHz - 30MHz. Required attenuation = $43+10\text{Log}(P) = 43+10\text{Log}(0.01384) = -24\text{dBc}$. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

| | |
|------------------------|---------------------|
| T1=Active Loop Antenna | T2=Cable #15 120602 |
|------------------------|---------------------|

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

| # | Freq MHz | Rdng dB μ V | T1 dB | T2 dB | dB | Dist Table | Corr dB μ V/m | Spec dB μ V/m | Margin dB | Polar Ant |
|---|-------------|--------------------|----------|----------|----|---------------|----------------------|----------------------|--------------|--------------|
| 1 | 5.880M | 35.3 | +11.3 | +0.4 | | +0.0 274 | 47.0 | 94.0 | -47.0 | None 99 |

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(c) Emission Mask OATS**
 Work Order #: **78420** Date: 2/22/02
 Test Type: **Maximized Emissions** Time: 11:41:03
 Equipment: **External CDMA Data Modem** Sequence#: 5
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=30kHz. Tx = 824.04 MHz. Range of measurement 30 - 1000MHz. Required attenuation = 43+10Log (P) = 43+10 Log (0.01262) = -24dBc. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

| | |
|------------------------|---------------------|
| T1=Bicon 092401 | T2=Log 331 092401 |
| T3=Cable #10 071601 | T4=Cable #15 120602 |
| T5=Preamp 8447D 090501 | |

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

| # | Freq MHz | Rdng dBμV | T1 T5 dB | T2 dB | T3 dB | T4 dB | Dist Table | Corr dBμV/m | Spec dBμV/m | Margin dB | Polar Ant |
|---|-------------|--------------|----------------|----------|----------|----------|---------------|----------------|-----------------------|--------------|--------------|
| 1 | 824.040M | 117.4 | +0.0 -27.6 | +21.9 | +0.6 | +5.7 | +0.0 110 | 118.0 | 118.0 Un modulated | +0.0 | Horiz 127 |
| 2 | 824.040M | 117.4 | +0.0 -27.6 | +21.9 | +0.6 | +5.7 | +0.0 360 | 118.0 | 118.0 Un modulated | +0.0 | Vert 127 |
| 3 | 824.320M | 81.3 | +0.0 -27.6 | +21.9 | +0.6 | +5.7 | +0.0 360 | 81.9 | 94.0 Un modulated | -12.1 | Horiz 127 |
| 4 | 823.840M | 72.9 | +0.0 -27.6 | +21.9 | +0.6 | +5.7 | +0.0 247 | 73.5 | 94.0 Un modulated | -20.5 | Horiz 127 |
| 5 | 825.270M | 70.6 | +0.0 -27.7 | +21.9 | +0.6 | +5.8 | +0.0 360 | 71.2 | 94.0 Un modulated | -22.8 | Vert 127 |
| 6 | 822.820M | 70.1 | +0.0 -27.6 | +21.9 | +0.6 | +5.7 | +0.0 360 | 70.7 | 94.0 Un modulated | -23.3 | Vert 127 |
| 7 | 825.290M | 68.3 | +0.0 -27.7 | +21.9 | +0.6 | +5.8 | +0.0 204 | 68.9 | 94.0 Un modulated | -25.1 | Horiz 127 |
| 8 | 822.830M | 68.2 | +0.0 -27.6 | +21.9 | +0.6 | +5.7 | +0.0 359 | 68.8 | 94.0 Un modulated | -25.2 | Horiz 127 |
| 9 | 244.000M | 34.0 | +17.7 -28.2 | +0.0 | +0.3 | +2.9 | +0.0 292 | 26.7 | 94.0 Noise floor | -67.3 | Horiz 99 |

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(c) Emission Mask OATs**
 Work Order #: **78420** Date: 2/22/02
 Test Type: **Maximized Emissions** Time: 11:42:16
 Equipment: **External CDMA Data Modem** Sequence#: 6
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=30kHz. Tx = 836.52 MHz. Range of measurement 30 - 1000MHz. Required attenuation = 43+10Log (P) = 43+10 Log (0.01384) = -24dBc. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

| | |
|------------------------|---------------------|
| T1=Bicon 092401 | T2=Log 331 092401 |
| T3=Cable #10 071601 | T4=Cable #15 120602 |
| T5=Preamp 8447D 090501 | |

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

| # | Freq MHz | Rdng dBμV | T1 T5 dB | T2 dB | T3 dB | T4 dB | Dist Table | Corr dBμV/m | Spec dBμV/m | Margin dB | Polar Ant |
|---|-------------|--------------|----------------|----------|----------|----------|---------------|----------------|-----------------------|--------------|--------------|
| 1 | 836.521M | 117.6 | +0.0 -27.7 | +22.1 | +0.6 | +5.8 | +0.0 | 118.4 | 118.4 Un modulated | +0.0 | Horiz 136 |
| 2 | 836.523M | 116.2 | +0.0 -27.7 | +22.1 | +0.6 | +5.8 | +0.0 240 | 117.0 | 118.4 Un modulated | -1.4 | Vert 149 |
| 3 | 836.725M | 78.3 | +0.0 -27.7 | +22.1 | +0.6 | +5.8 | +0.0 240 | 79.1 | 94.0 Un modulated | -14.9 | Vert 149 |
| 4 | 836.733M | 75.4 | +0.0 -27.7 | +22.1 | +0.6 | +5.8 | +0.0 301 | 76.2 | 94.0 Un modulated | -17.8 | Horiz 136 |
| 5 | 837.105M | 74.0 | +0.0 -27.7 | +22.1 | +0.6 | +5.8 | +0.0 138 | 74.8 | 94.0 Un modulated | -19.2 | Vert 149 |
| 6 | 836.243M | 73.9 | +0.0 -27.7 | +22.1 | +0.6 | +5.8 | +0.0 240 | 74.7 | 94.0 Un modulated | -19.3 | Vert 149 |
| 7 | 836.310M | 71.5 | +0.0 -27.7 | +22.1 | +0.6 | +5.8 | +0.0 171 | 72.3 | 94.0 Un modulated | -21.7 | Horiz 136 |
| 8 | 836.085M | 69.8 | +0.0 -27.7 | +22.1 | +0.6 | +5.8 | +0.0 279 | 70.6 | 94.0 Un modulated | -23.4 | Vert 149 |
| 9 | 835.300M | 67.9 | +0.0 -27.7 | +22.0 | +0.6 | +5.8 | +0.0 265 | 68.6 | 94.0 Un modulated | -25.4 | Horiz 136 |

| | | | | | | | | | | | |
|----|----------|------|----------------|-------|------|------|-------------|------|----------------------|-------|--------------|
| 10 | 837.730M | 64.4 | +0.0 -27.7 | +22.1 | +0.6 | +5.8 | +0.0 327 | 65.2 | 94.0 Un modulated | -28.8 | Horiz 136 |
| 11 | 837.730M | 60.0 | +0.0 -27.7 | +22.1 | +0.6 | +5.8 | +0.0 56 | 60.8 | 94.0 Un modulated | -33.2 | Vert 149 |
| 12 | 831.620M | 50.0 | +0.0 -27.7 | +22.0 | +0.6 | +5.8 | +0.0 90 | 50.7 | 94.0 Un modulated | -43.3 | Horiz 136 |
| 13 | 184.000M | 33.0 | +17.2 -28.3 | +0.0 | +0.3 | +2.5 | +0.0 20 | 24.7 | 94.0 Noise floor | -69.3 | Vert 99 |

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(c) Emission Mask OATs**
 Work Order #: **78420** Date: 2/22/02
 Test Type: **Maximized Emissions** Time: 11:43:24
 Equipment: **External CDMA Data Modem** Sequence#: 7
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=30kHz. Tx = 848.97 MHz. Range of measurement 30 - 1000MHz. Required attenuation = 43+10Log (P) = 43+10 Log (0.01384) = -24dBc. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

| | |
|------------------------|---------------------|
| T1=Bicon 092401 | T2=Log 331 092401 |
| T3=Cable #10 071601 | T4=Cable #15 120602 |
| T5=Preamp 8447D 090501 | |

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

| # | Freq MHz | Rdng dBμV | T1 T5 dB | T2 dB | T3 dB | T4 dB | Dist Table | Corr dBμV/m | Spec dBμV/m | Margin dB | Polar Ant |
|---|-------------|--------------|----------------|----------|----------|----------|---------------|----------------|-----------------------|--------------|--------------|
| 1 | 848.971M | 116.9 | +0.0 -27.7 | +22.3 | +0.6 | +5.8 | +0.0 33 | 117.9 | 117.9 Un modulated | +0.0 | Vert 158 |
| 2 | 848.973M | 116.6 | +0.0 -27.7 | +22.3 | +0.6 | +5.8 | +0.0 68 | 117.6 | 117.9 Un modulated | -0.3 | Horiz 99 |
| 3 | 849.185M | 76.4 | +0.0 -27.7 | +22.3 | +0.6 | +5.8 | +0.0 323 | 77.4 | 94.0 Un modulated | -16.6 | Vert 158 |
| 4 | 848.405M | 71.3 | +0.0 -27.7 | +22.2 | +0.6 | +5.8 | +0.0 234 | 72.2 | 94.0 Un modulated | -21.8 | Vert 158 |
| 5 | 849.545M | 69.0 | +0.0 -27.7 | +22.3 | +0.6 | +5.8 | +0.0 338 | 70.0 | 94.0 Un modulated | -24.0 | Vert 158 |
| 6 | 847.750M | 67.0 | +0.0 -27.7 | +22.2 | +0.6 | +5.8 | +0.0 332 | 67.9 | 94.0 Un modulated | -26.1 | Horiz 99 |
| 7 | 847.760M | 67.0 | +0.0 -27.7 | +22.2 | +0.6 | +5.8 | +0.0 39 | 67.9 | 94.0 Un modulated | -26.1 | Vert 158 |
| 8 | 847.760M | 67.0 | +0.0 -27.7 | +22.2 | +0.6 | +5.8 | +0.0 43 | 67.9 | 94.0 Un modulated | -26.1 | Vert 158 |

| | | | | | | | | | | | |
|----|----------|------|----------------|-------|------|------|-------------|------|----------------------|-------|-------------|
| 9 | 850.210M | 66.7 | +0.0 -27.7 | +22.3 | +0.6 | +5.8 | +0.0 178 | 67.7 | 94.0 Un modulated | -26.3 | Horiz 99 |
| 10 | 850.200M | 65.7 | +0.0 -27.7 | +22.3 | +0.6 | +5.8 | +0.0 32 | 66.7 | 94.0 Un modulated | -27.3 | Vert 158 |
| 11 | 274.000M | 34.7 | +20.0 -28.3 | +0.0 | +0.3 | +3.1 | +0.0 147 | 29.8 | 94.0 Noise floor | -64.2 | Horiz 99 |

Test Location: CKC Laboratories, Inc. •110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(c) Emission Mask OATS**
 Work Order #: **78420** Date: 2/22/02
 Test Type: **Maximized Emissions** Time: 14:04:15
 Equipment: **External CDMA Data Modem** Sequence#: 8
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=30kHz. Tx = 824.04 MHz. Range of measurement 1 - 9 GHz. Required attenuation = 43+10Log (P) = 43+10 Log (0.01262) = -24dBc. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

| | |
|-----------------------------|------------------------------------|
| T1=Horn Antenna sn6246 | T2=HP3017A sn3123A00281 11-Sept-01 |
| T3=Helix #18 70' 11Sept2001 | T4=1.5 GHz HPF |

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

| # | Freq MHz | Rdng dBμV | T1 dB | T2 dB | T3 dB | T4 dB | Dist Table | Corr dBμV/m | Spec dBμV/m | Margin dB | Polar Ant |
|---|-----------|-----------|-------|-------|-------|-------|-------------|-------------|-------------|-----------|--------------|
| 1 | 1648.110M | 66.3 | +25.1 | -38.6 | +3.5 | +0.8 | +0.0 360 | 57.1 | 94.0 | -36.9 | Vert 113 |
| 2 | 1648.000M | 59.9 | +25.1 | -38.6 | +3.5 | +0.8 | +0.0 123 | 50.7 | 94.0 | -43.3 | Horiz 100 |
| 3 | 1081.000M | 60.8 | +24.0 | -40.2 | +2.8 | +0.0 | +0.0 4 | 47.4 | 94.0 | -46.6 | Vert 99 |
| 4 | 2472.130M | 53.0 | +27.7 | -38.7 | +4.2 | +0.3 | +0.0 360 | 46.5 | 94.0 | -47.5 | Vert 113 |

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(c) Emission Mask OATs**
 Work Order #: **78420** Date: 2/22/02
 Test Type: **Maximized Emissions** Time: 14:09:28
 Equipment: **External CDMA Data Modem** Sequence#: 9
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=30kHz. Tx = 836.52 MHz. Range of measurement 1 - 9GHz. Required attenuation = 43+10Log (P) = 43+10 Log (0.01384) = -24dBc. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

| | |
|-----------------------------|------------------------------------|
| T1=Horn Antenna sn6246 | T2=HP3017A sn3123A00281 11-Sept-01 |
| T3=Helix #18 70' 11Sept2001 | T4=1.5 GHz HPF |

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

| # | Freq MHz | Rdng dB μ V | T1 dB | T2 dB | T3 dB | T4 dB | Dist Table | Corr dB μ V/m | Spec dB μ V/m | Margin dB | Polar Ant |
|---|-----------|-----------------|-------|-------|-------|-------|-------------|-------------------|-------------------|-----------|-----------|
| 1 | 1673.000M | 62.5 | +25.2 | -38.6 | +3.6 | +0.9 | +0.0 | 53.6 | 94.0 | -40.4 | Vert 113 |
| 2 | 1081.000M | 66.7 | +24.0 | -40.2 | +2.8 | +0.0 | +0.0 42 | 53.3 | 94.0 | -40.7 | Vert 107 |
| 3 | 1673.000M | 59.5 | +25.2 | -38.6 | +3.6 | +0.9 | +0.0 127 | 50.6 | 94.0 | -43.4 | Horiz 100 |
| 4 | 2510.000M | 46.4 | +27.8 | -38.9 | +4.1 | +0.2 | +0.0 198 | 39.6 | 94.0 | -54.4 | Vert 113 |

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(c) Emission Mask OATs**
 Work Order #: **78420** Date: 2/22/02
 Test Type: **Maximized Emissions** Time: 14:16:59
 Equipment: **External CDMA Data Modem** Sequence#: 10
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

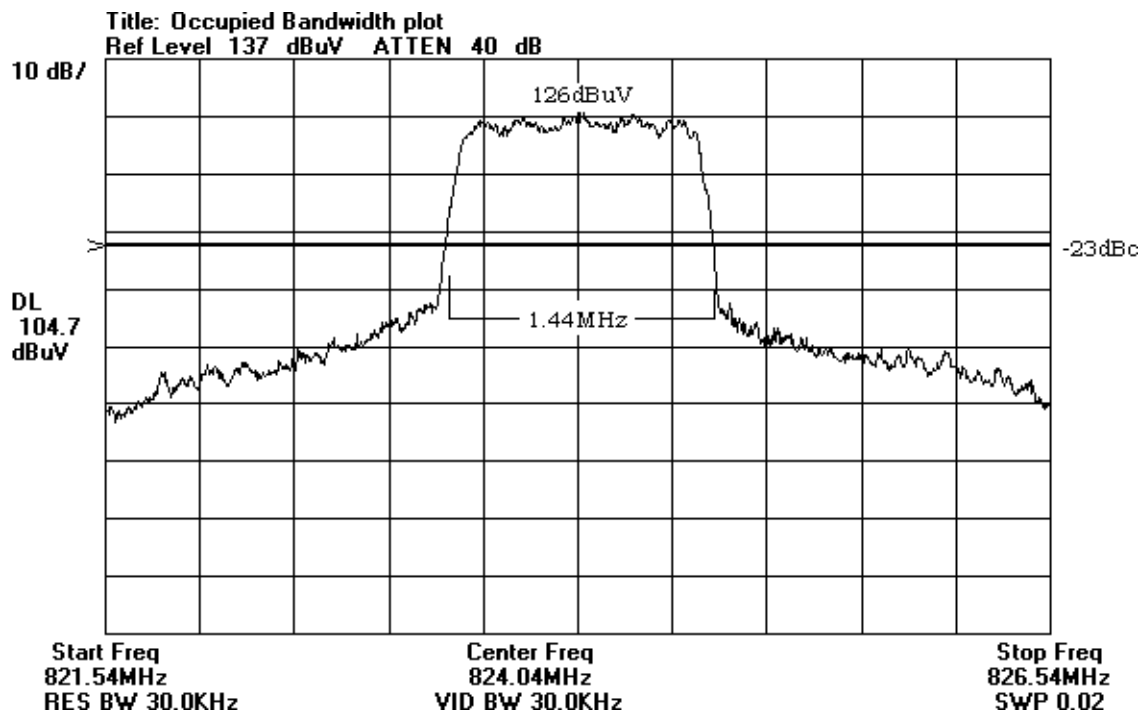
EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=30kHz. Tx = 848.97 MHz. Range of measurement 1-9 GHz Required attenuation = 43+10Log (P) = 43+10 Log (0.01384) = -24dBc. 12Vdc, 23°C, 45% relative humidity.

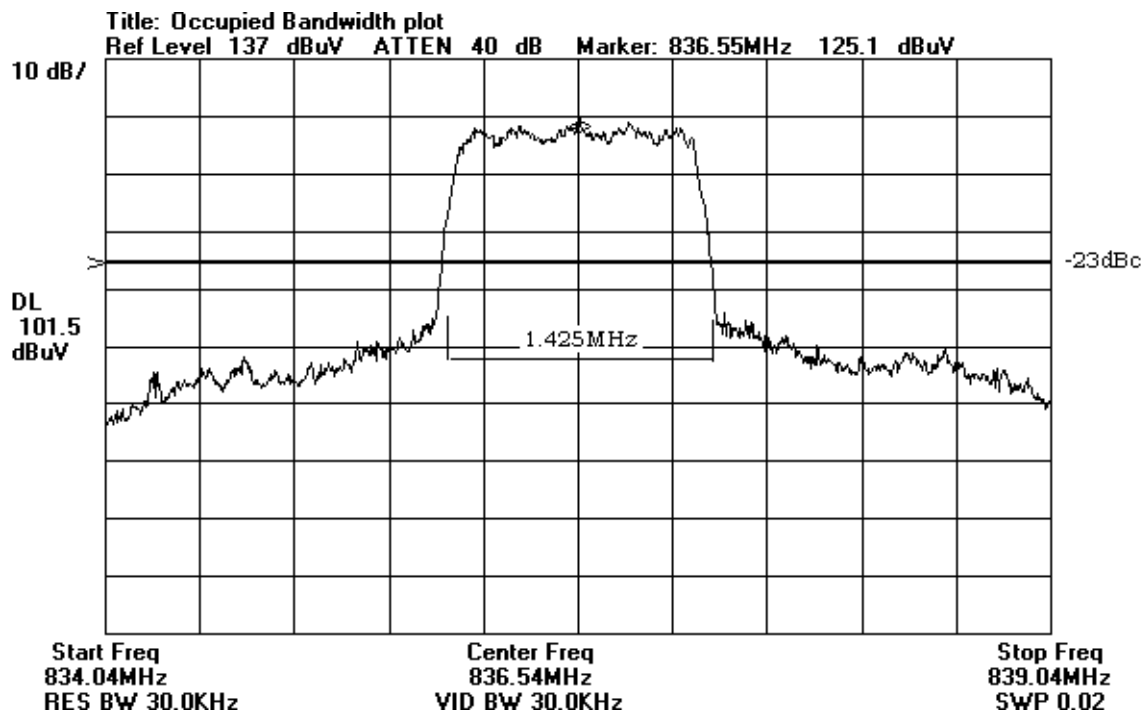
Transducer Legend:

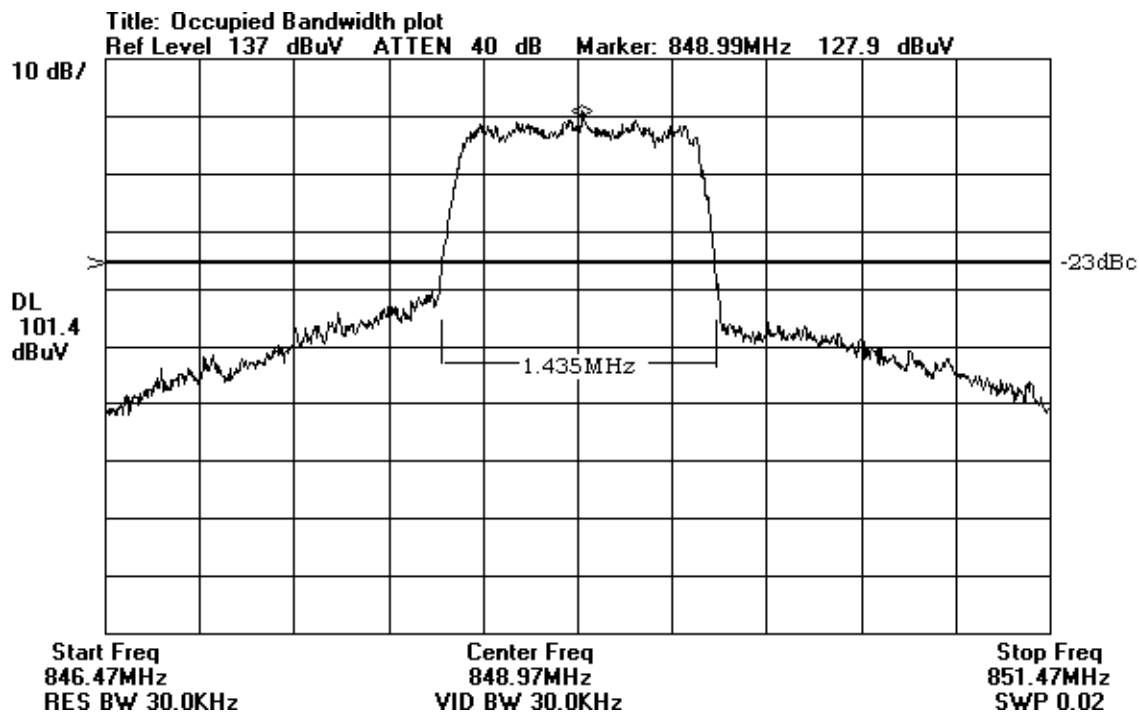
| | |
|-----------------------------|------------------------------------|
| T1=Horn Antenna sn6246 | T2=HP3017A sn3123A00281 11-Sept-01 |
| T3=Helix #18 70' 11Sept2001 | T4=1.5 GHz HPF |

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

| # | Freq MHz | Rdng dBμV | T1 dB | T2 dB | T3 dB | T4 dB | Dist Table | Corr dBμV/m | Spec dBμV/m | Margin dB | Polar Ant |
|---|-----------|-----------|-------|-------|-------|-------|-------------|-------------|-------------|-----------|--------------|
| 1 | 2423.000M | 68.6 | +27.6 | -38.4 | +4.3 | +0.3 | +0.0 167 | 62.4 | 94.0 | -31.6 | Horiz 100 |
| 2 | 1951.000M | 69.1 | +26.2 | -38.4 | +3.8 | +0.6 | +0.0 247 | 61.3 | 94.0 | -32.7 | Horiz 107 |
| 3 | 1698.000M | 69.7 | +25.3 | -38.6 | +3.6 | +0.7 | +0.0 57 | 60.7 | 94.0 | -33.3 | Horiz 107 |
| 4 | 1699.000M | 60.6 | +25.3 | -38.6 | +3.6 | +0.7 | +0.0 88 | 51.6 | 94.0 | -42.4 | Vert 113 |
| 5 | 1035.000M | 63.4 | +24.0 | -40.5 | +2.7 | +0.0 | +0.0 1 | 49.6 | 94.0 | -44.4 | Vert 107 |
| 6 | 2546.600M | 52.9 | +28.0 | -38.8 | +4.2 | +0.2 | +0.0 225 | 46.5 | 94.0 | -47.5 | Vert 100 |
| 7 | 2416.000M | 47.5 | +27.6 | -38.4 | +4.3 | +0.3 | +0.0 277 | 41.3 | 94.0 | -52.7 | Vert 113 |







Antenna terminal

| Equipment | Asset # | Manufacturer | Model # | Serial # | Cal Date | Cal Due |
|-------------------|---------|--------------|---------|------------|----------|---------|
| Spectrum Analyzer | 01865 | HP | 8566B | 2532A02509 | 092801 | 092802 |
| Signal Generator | 00089 | HP | 8656A | 2245A04166 | 090201 | 090602 |

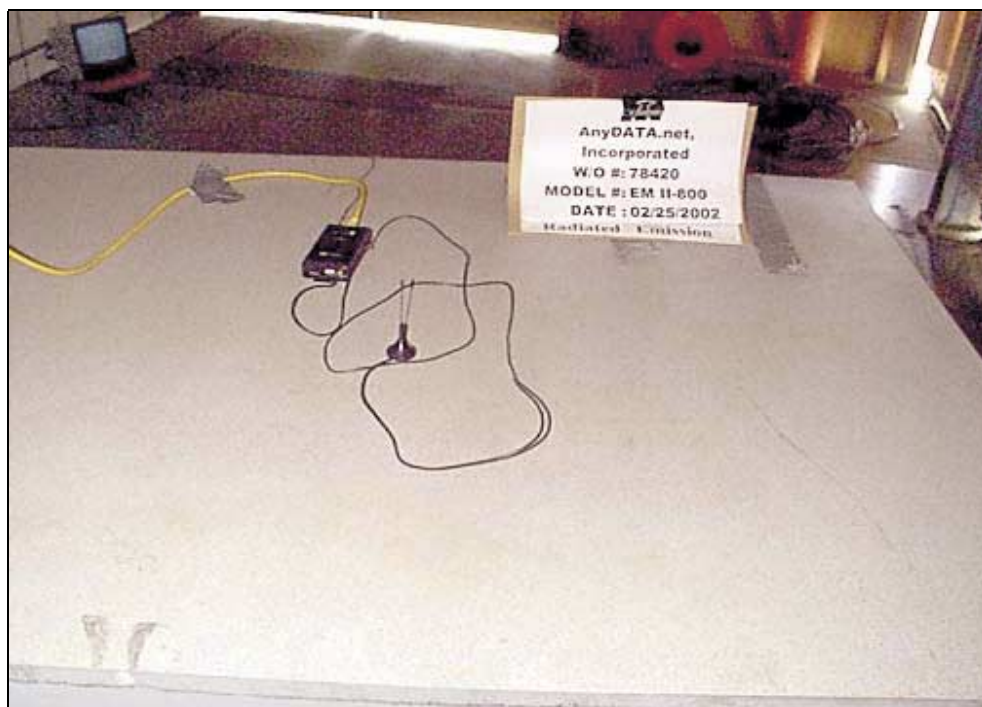
(Open Area Test Site)

30- 1000 MHz

| Equipment | Asset # | Manufacturer | Model # | Serial # | Cal Date | Cal Due |
|------------------------|---------|--------------|-------------|------------------|----------|---------|
| 9 kHz- 30 MHz | | | | | | |
| Spectrum Analyzer | 02467 | Agilent | E7405A | US40240225 | 041001 | 041002 |
| Antenna cable | NA | NA | RG214 | Cable#15 | 122001 | 122002 |
| Active loop antenna | 2014 | Emco | 6502 | 2014 | 073101 | 073102 |
| 30- 1000 MHz | | | | | | |
| Spectrum Analyzer | 02467 | Agilent | E7405A | US40240225 | 041001 | 041002 |
| Bicon Antenna | 306 | AH | SAS200/540 | 220 | 092401 | 092402 |
| Log Periodic Antenna | 331 | AH | SAS 00/516 | 330 | 092401 | 092402 |
| Pre-amp | 00309 | HP | 8447D | 1937A02548 | 090501 | 090502 |
| Antenna cable | NA | NA | RG214 | Cable#15 | 122001 | 122002 |
| Pre-amp to SA cable | NA | Harbour | RG223/U | Cable#10 | 071601 | 071602 |
| 1000-90,000 MHz | | | | | | |
| Spectrum Analyzer | 02467 | Agilent | E7405A | US40240225 | 041001 | 041002 |
| Horn Antenna | 0646 | EMCO | 3115 | 4683 | 022801 | 022802 |
| Microwave Pre-amp | 00786 | HP | 83017A | 3123A00281 | 091201 | 091202 |
| ¼" Helix Coaxial Cable | NA | Andrew | LDF1-50 | Cable#18 (70 ft) | 091101 | 091102 |
| High Pas Filter | 01415 | HP | 84300-80037 | 3643A00026 | 021901 | 021902 |

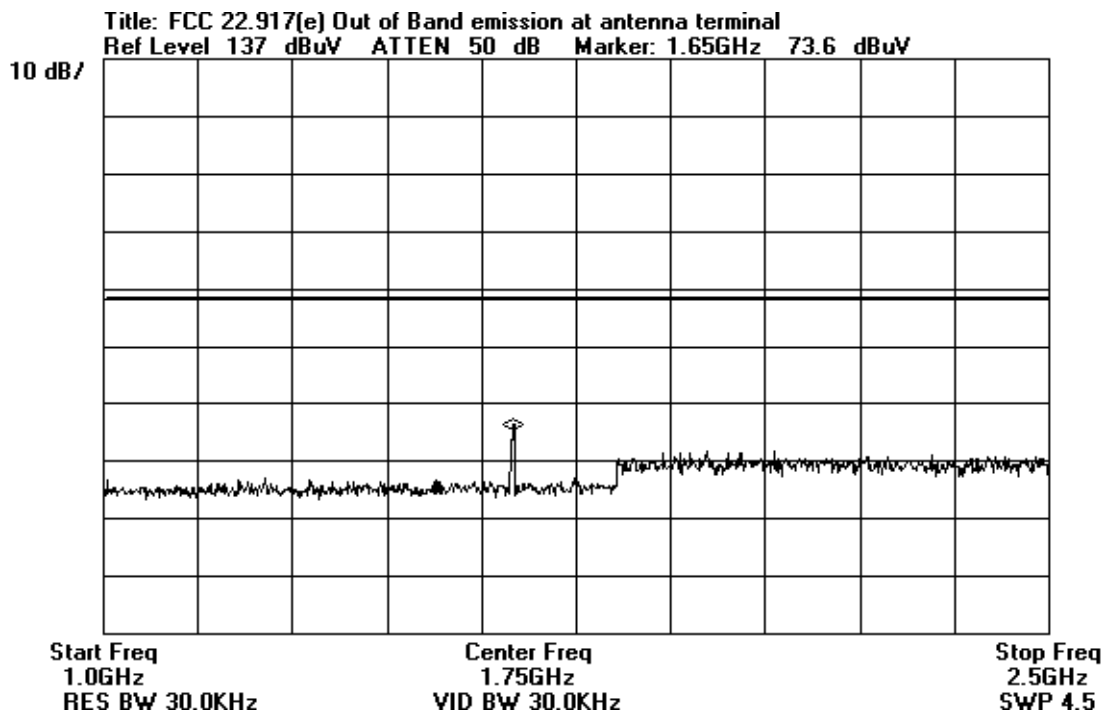


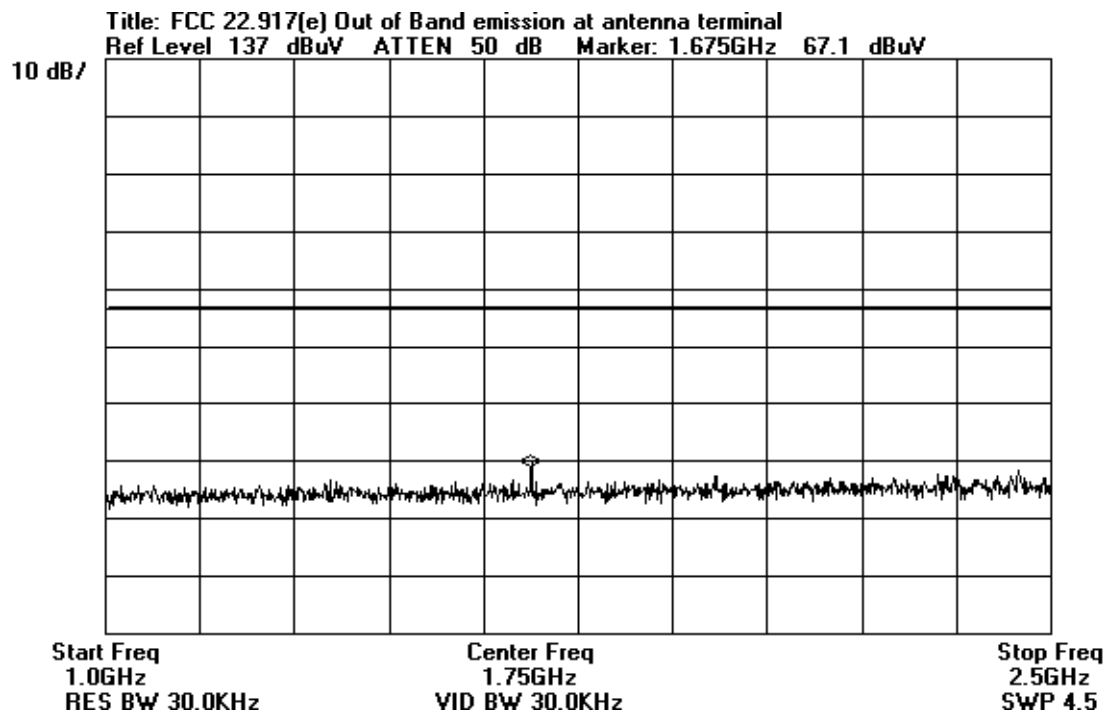
OATS Test Setup - Front View

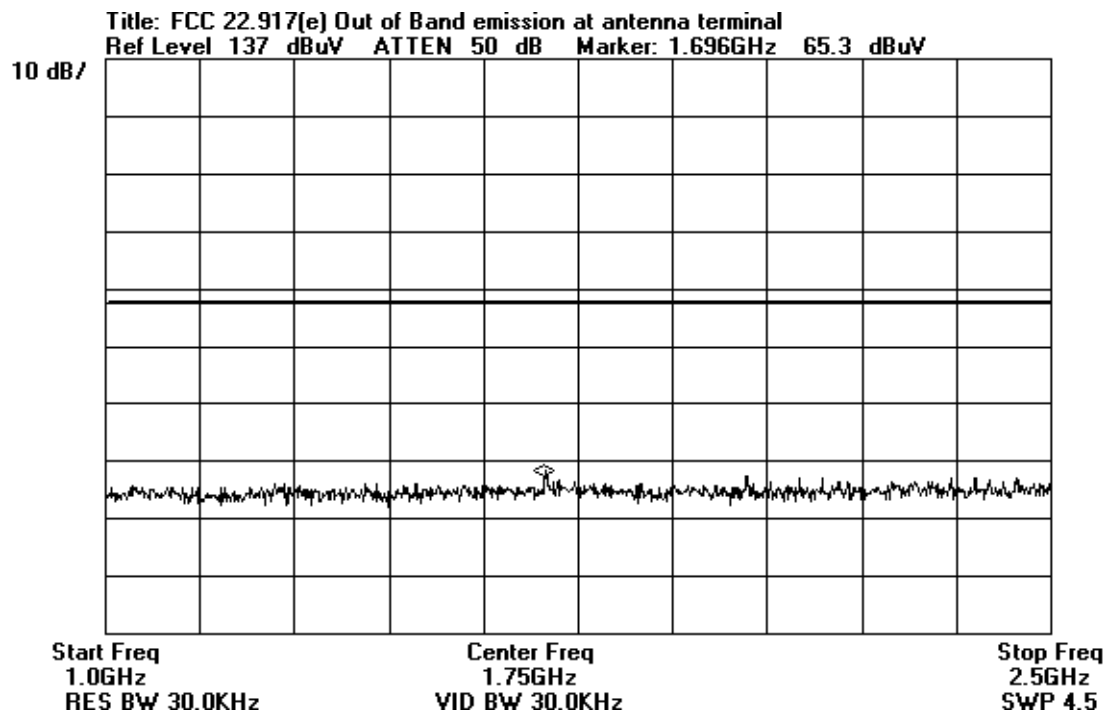


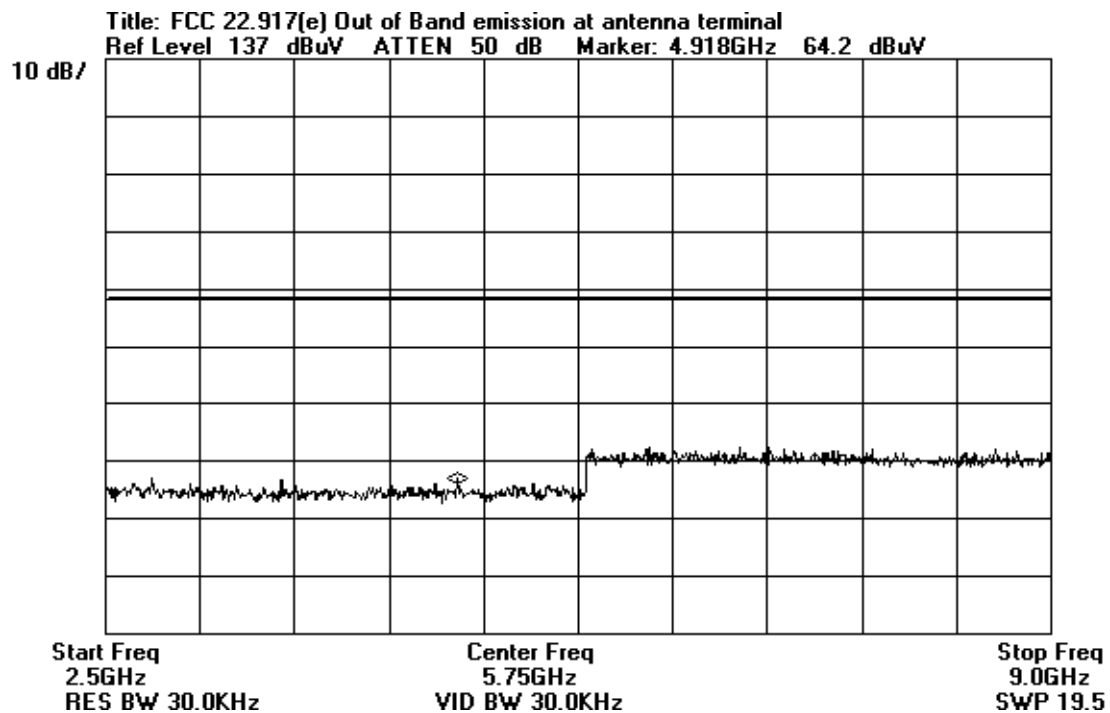
OATS Test Setup - Back View

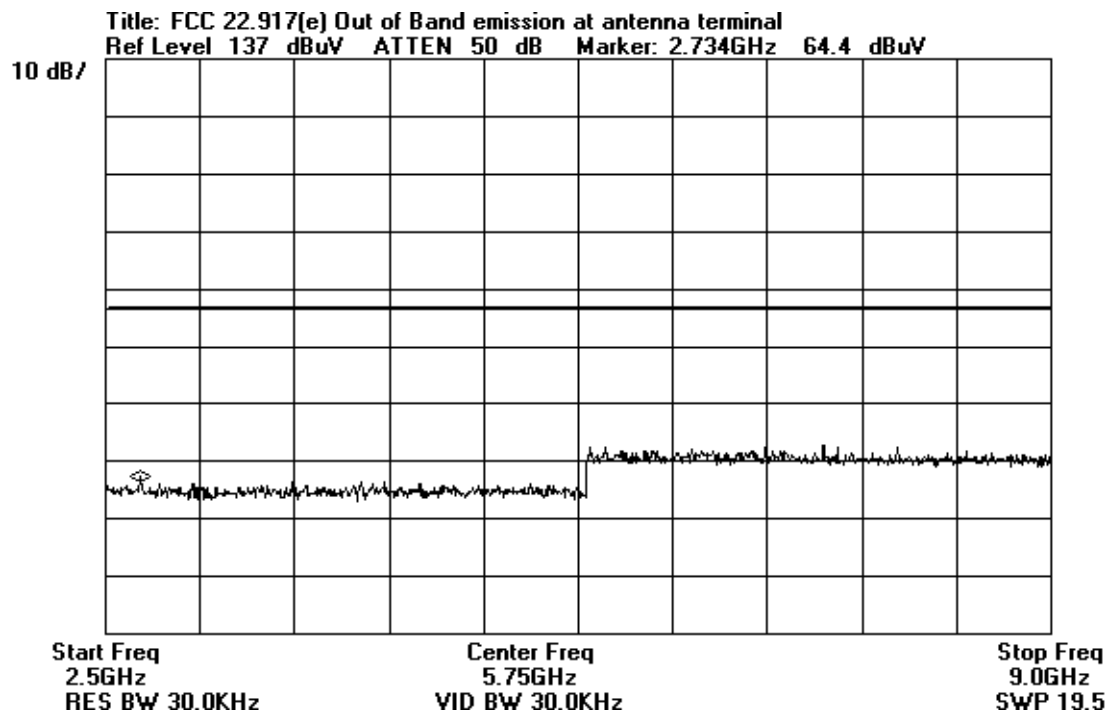
2.1033(c)(14)/2.1051/22.917(e)- OUT OF BANDEMISSIONS AT ANTENNA TERMINAL

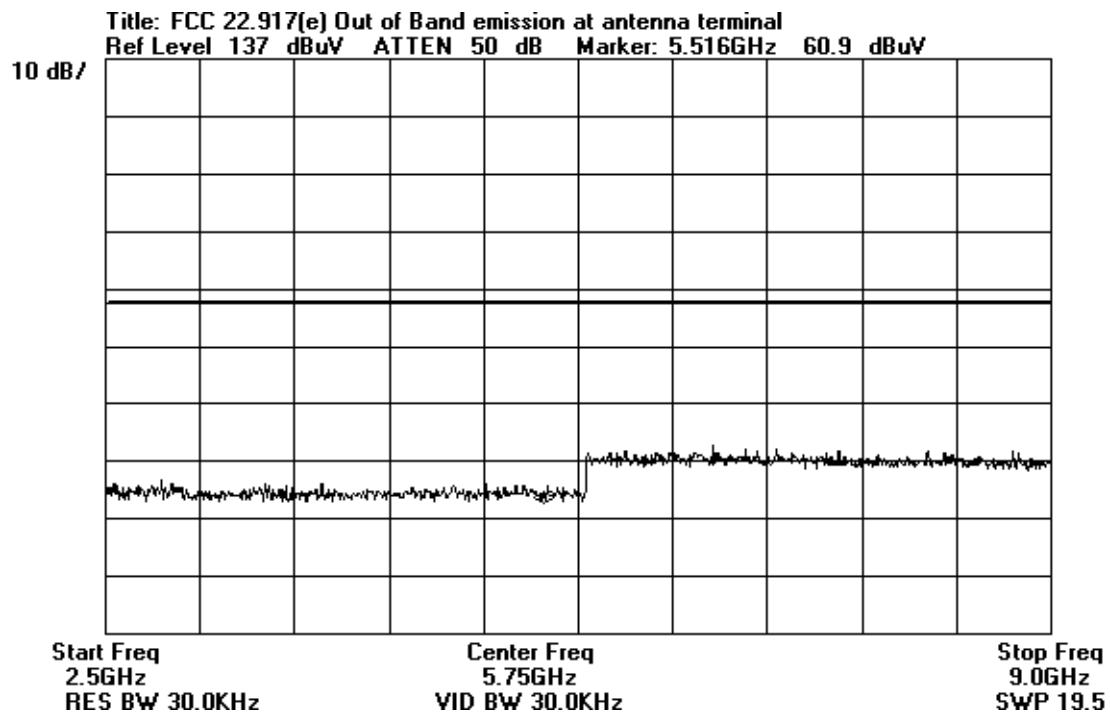


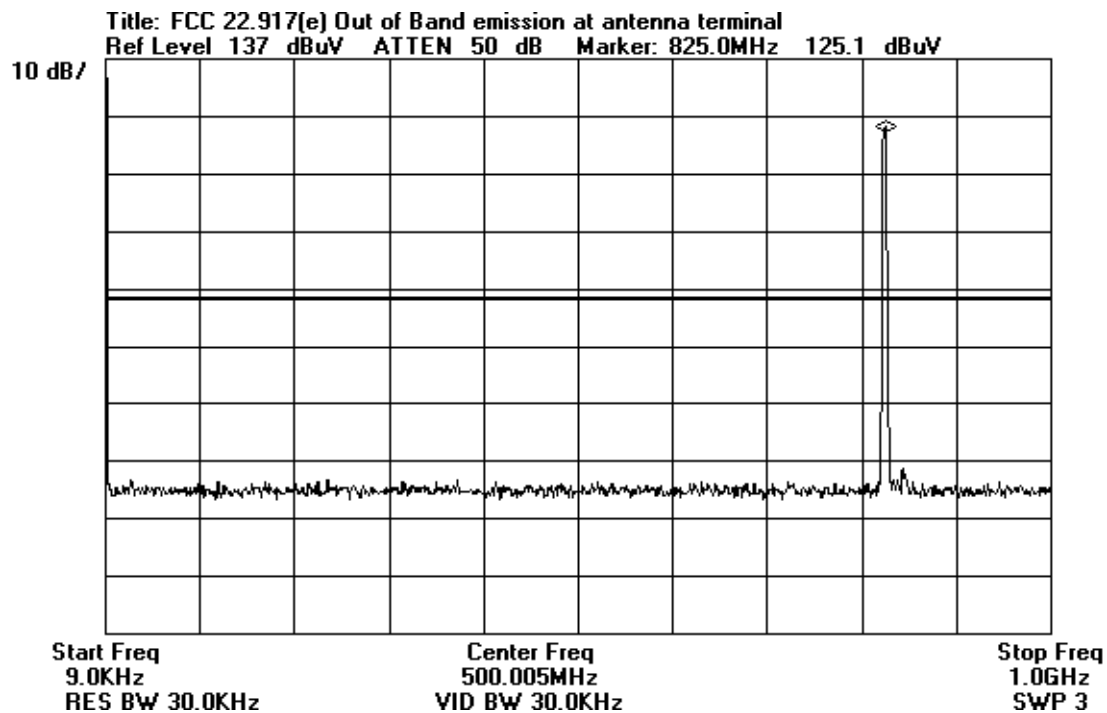


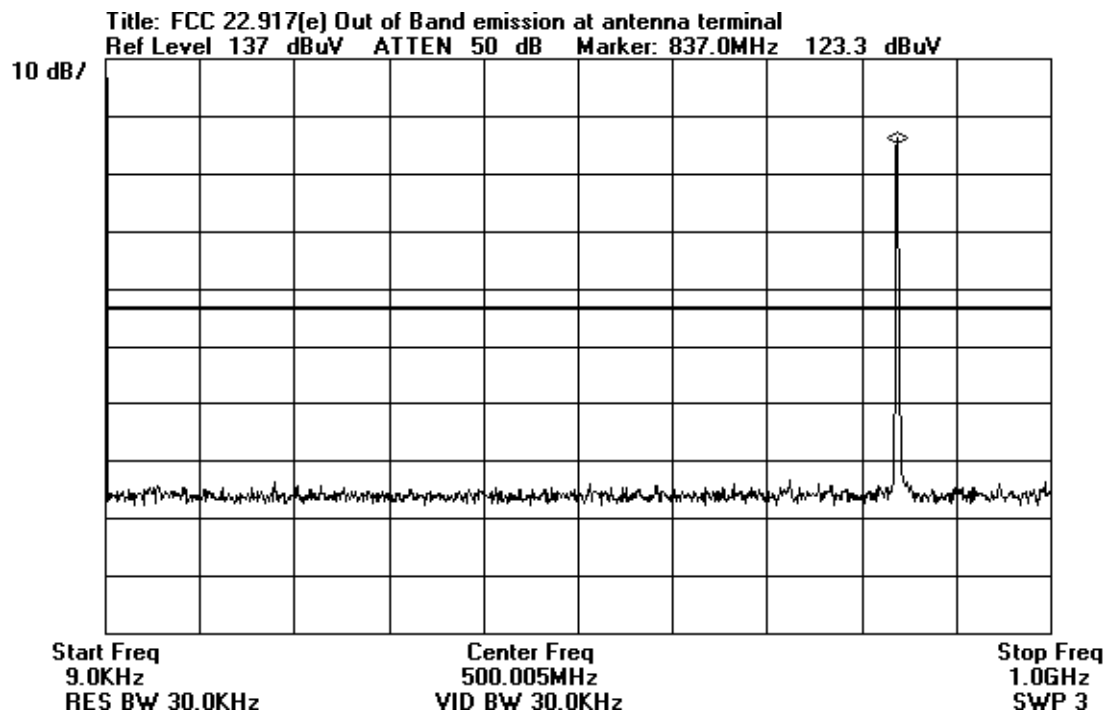


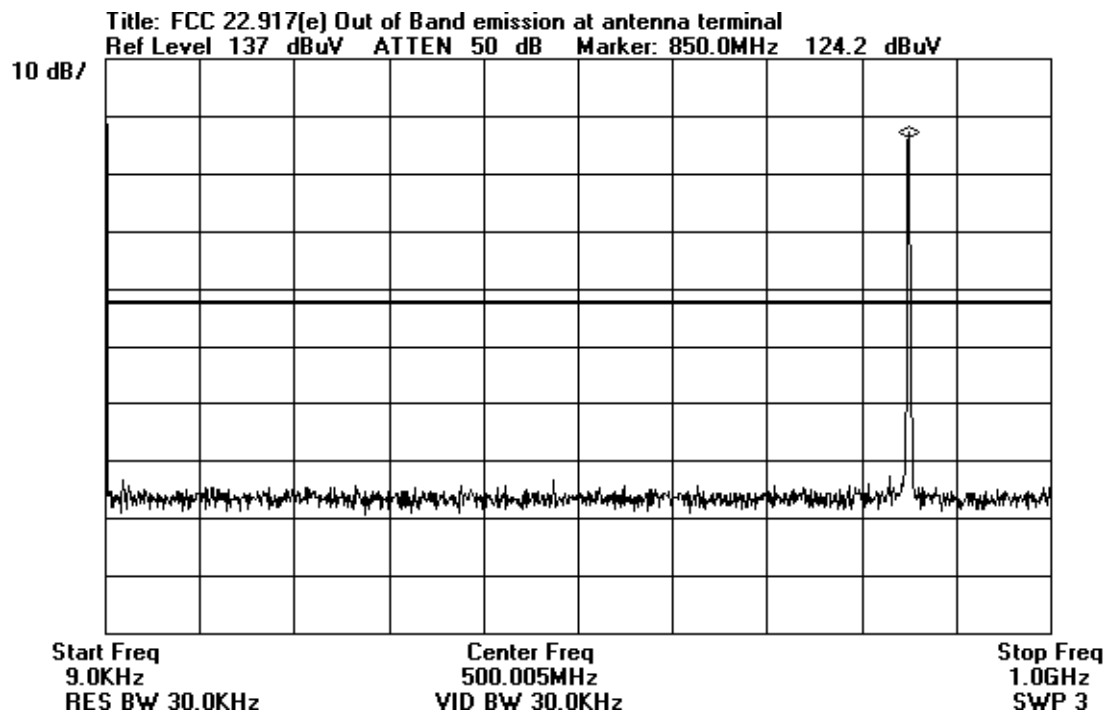












Test Location: CKC Laboratories, Inc. •110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(e) Out of band emissions Ant term**
 Work Order #: **78420** Date: 2/21/02
 Test Type: **Conducted Emissions** Time: 10:16:54
 Equipment: **External CDMA Data Modem** Sequence#: 2
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Test Equipment:

| Function | S/N | Calibration Date | Cal Due Date | Asset # |
|-------------------|-----|------------------|--------------|---------|
| spectrum analyzer | hp | 12/28/2001 | 12/28/2001 | 5566 |

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. Out of Band emission. EUT operate in wide band data mode. Tx = 824.04MHz. Required attenuation = 43+10 Log P dB= -39.2 dBc RBW=VBW=30KHz. Range of measurement = 9 KHz-9 GHz. 12Vdc, 20°C, 57% relative humidity.

Transducer Legend:

| |
|--|
| |
|--|

Measurement Data: Reading listed by margin. Test Lead: Antenna terminal

| # | Freq MHz | Rdng dB μ V | dB | | | | Dist Table | Corr dB μ V/m | Spec dB μ V/m | Margin dB | Polar Ant |
|---|-----------|-----------------|----|--|--|--|------------|-------------------|-------------------|-----------|-----------|
| 1 | 825.974M | 83.3 | | | | | +0.0 | 83.3 | 95.3 | -12.0 | Anten |
| 2 | 822.305M | 80.3 | | | | | +0.0 | 80.3 | 95.3 | -15.0 | Anten |
| 3 | 1648.470M | 73.1 | | | | | +0.0 | 73.1 | 95.3 | -22.2 | Anten |

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(e) Out of Band emission Ant term**
 Work Order #: **78420** Date: 2/21/02
 Test Type: **Conducted Emissions** Time: 10:42:55
 Equipment: **External CDMA Data Modem** Sequence#: 3
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. Out of Band emission. EUT operate in wide band data mode. Tx = 836.52MHz. Required attenuation = 43+10 Log P dB= -37.6 dBc RBW=VBW=30KHz. Range of measurement = 9 KHz-9 GHz. 12Vdc, 20°C, 57% relative humidity.

Transducer Legend:

| |
|--|
| |
|--|

Measurement Data: Reading listed by margin. Test Lead: Antenna terminal

| # | Freq MHz | Rdng dB μ V | Reading listed by margin | | | | Dist Table | Corr dB μ V/m | Spec dB μ V/m | Margin dB | Polar Ant |
|---|-------------|--------------------|--------------------------|--|--|--|---------------|----------------------|----------------------|--------------|--------------|
| 1 | 834.605M | 79.7 | | | | | +0.0 | 79.7 | 93.6 | -13.9 | Anten |
| 2 | 1672.680M | 68.5 | | | | | +0.0 | 68.5 | 93.6 | -25.1 | Anten |

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(e) Out of Band emission Ant term**
 Work Order #: **78420** Date: 2/21/02
 Test Type: **Conducted Emissions** Time: 10:57:24
 Equipment: **External CDMA Data Modem** Sequence#: 4
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. Out of Band emission. EUT operate in wide band data mode. Tx = 848.97MHz. Required attenuation = 43+10 Log P dB= -38.6 dBc RBW=VBW=30KHz. Range of measurement = 9 KHz-9 GHz. 12Vdc, 20°C, 57% relative humidity.

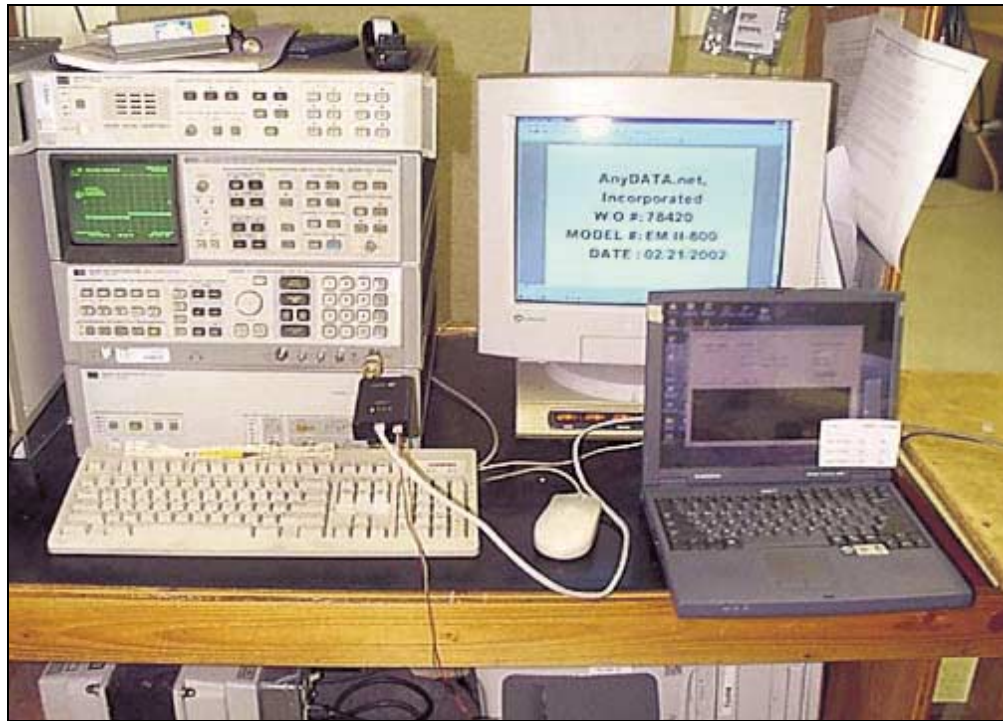
Transducer Legend:

| |
|--|
| |
|--|

Measurement Data: Reading listed by margin. Test Lead: Antenna terminal

| # | Freq MHz | Rdng dBμV | dB | dB | dB | dB | Dist Table | Corr dBμV/m | Spec dBμV/m | Margin dB | Polar Ant |
|---|-----------|-----------|----|----|----|----|------------|-------------|-------------|-----------|-----------|
| 1 | 846.780M | 75.4 | | | | | +0.0 | 75.4 | 94.6 | -19.2 | Anten |
| 2 | 1699.500M | 65.7 | | | | | +0.0 | 65.7 | 94.6 | -28.9 | Anten |

| Equipment | Asset # | Manufacturer | Model # | Serial # | Cal Date | Cal Due |
|-------------------|---------|--------------|---------|------------|----------|---------|
| Spectrum Analyzer | 01865 | HP | 8566B | 2532A02509 | 092801 | 092802 |
| Signal Generator | 00089 | HP | 8656A | 2245A04166 | 090201 | 090602 |



Direct Connect Test Setup



Direct Connect Test Setup

2.1033(c)(14)/2.1053/22.917(e) OUT OF BAND EMISSIONS - OATS

Not Applicable

2.1033(c)(14)/2.1055/22.355 FREQUENCY STABILITY

Frequency Stability

| | |
|----------------|-----------------|
| Customer: | AnyData.net |
| WO: | 78420 |
| Model: | EMII - 800 |
| FCC Part: | 2.1055 / 22.355 |
| Test Engineer: | Randal Clark |

| | | |
|---------------------------------|---------------|------------------|
| Ambient Temperature: | 72.00 | 22.2 °C |
| Relative Humidity: | 41 | % |
| Authorized Band: | 824.04-848.97 | MHz |
| CH1 Operating Frequency in MHz: | 824.04 | MHz |
| CH2 Operating Frequency in MHz: | 836.52 | MHz |
| CH3 Operating Frequency in MHz: | 848.97 | MHz |
| CH1 Frequency Limit: | 1236 | (1.5 PPM) |
| CH2 Frequency Limit: | 1255 | (1.5 PPM) |
| CH3 Frequency Limit: | 1273 | (1.5 PPM) |
| Nominal Operating Voltage: | 12.00 | VDC |
| 85% of Nominal (V-) | 10.20 | VDC |
| 115% of Nominal (V+) | 13.80 | VDC |

Maximum Deviation: 680.00 PPM

Temperature Stability

| Channel 1 | | |
|---------------|---------------------|-----------|
| Frequency MHz | Frequency Error PPM | Pass/Fail |
| -30° | 824.039900 | -100 PASS |
| -20°C | 824.039870 | -130 PASS |
| -10°C | 824.039860 | -140 PASS |
| 0°C | 824.040340 | 340 PASS |
| +10°C | 824.040000 | 0 PASS |
| +20°C | 824.040010 | 10 PASS |
| +30°C | 824.040190 | 190 PASS |
| +40°C | 824.040380 | 380 PASS |
| +50°C | 824.040580 | 580 PASS |

| Channel 2 | | |
|------------------|---------------------|-----------|
| Frequency MHz | Frequency Error PPM | Pass/Fail |
| -30° | 836.519870 | -130 PASS |
| -20°C | 836.520010 | 10 PASS |
| -10°C | 836.520040 | 40 PASS |
| 0°C | 836.520230 | 230 PASS |
| +10°C | 836.520020 | 20 PASS |
| +20°C | 836.520070 | 70 PASS |
| +30°C | 836.520310 | 310 PASS |
| +40°C | 836.520500 | 500 PASS |
| +50°C | 836.520570 | 570 PASS |

| Channel 3 | | |
|------------------|---------------------|-----------|
| Frequency MHz | Frequency Error PPM | Pass/Fail |
| -30° | 848.969950 | -50 PASS |
| -20°C | 848.970010 | 10 PASS |
| -10°C | 848.970060 | 60 PASS |
| 0°C | 848.970150 | 150 PASS |
| +10°C | 848.970070 | 70 PASS |
| +20°C | 848.970150 | 150 PASS |
| +30°C | 848.970390 | 390 PASS |
| +40°C | 848.970620 | 620 PASS |
| +50°C | 848.970540 | 540 PASS |

Voltage Variations

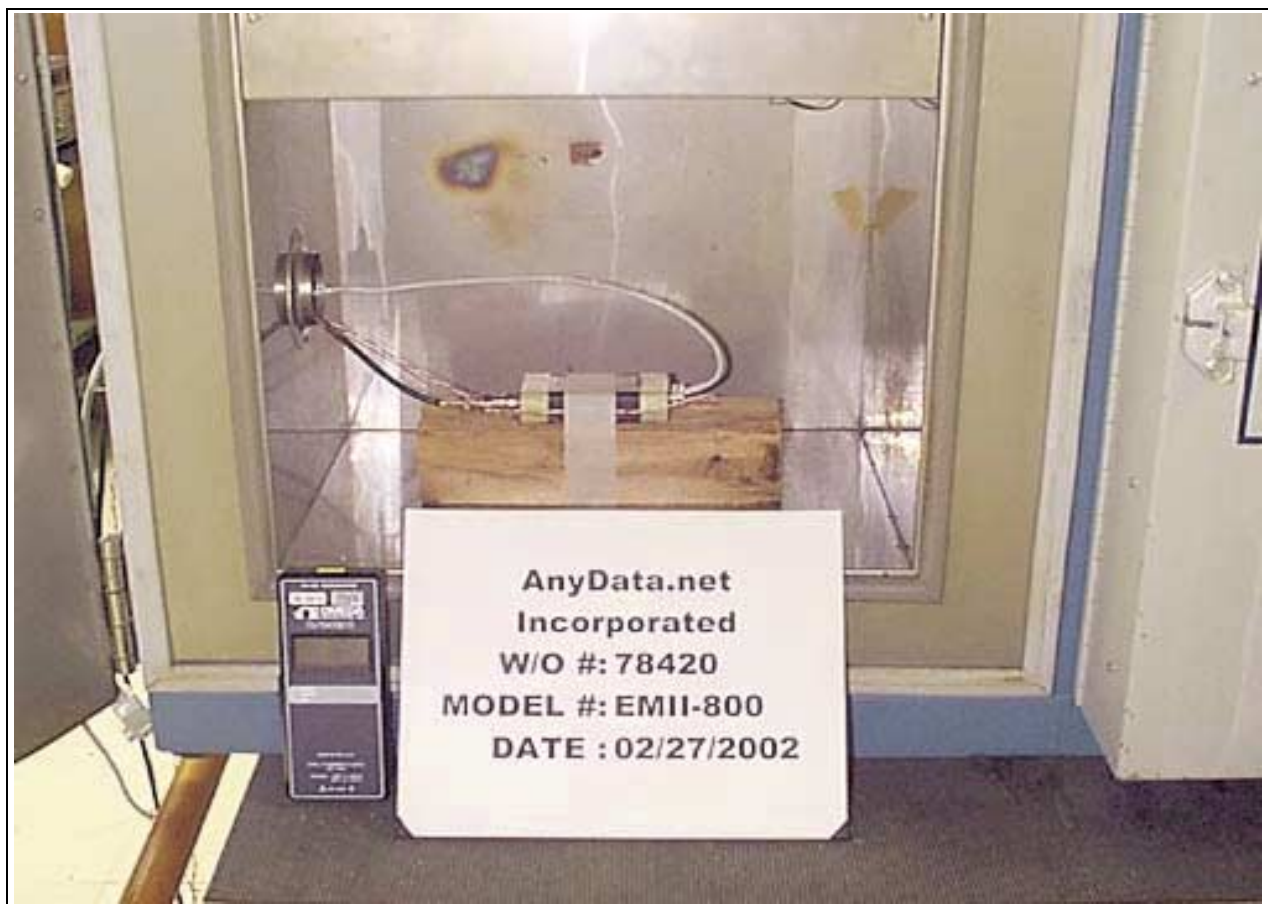
Ambient Temperature is 22.0 °C

| Channel 1 | | | |
|------------------|---------------|---------------------|-----------|
| Voltage | Frequency MHz | Frequency Error PPM | Pass/Fail |
| 10.2 | 824.040670 | 670 | PASS |
| 12.0 | 824.040640 | 640 | PASS |
| 13.8 | 824.040630 | 630 | PASS |

| Channel 2 | | | |
|------------------|---------------|---------------------|-----------|
| Voltage | Frequency MHz | Frequency Error PPM | Pass/Fail |
| 10.2 | 836.520650 | 650 | PASS |
| 12.0 | 836.520660 | 660 | PASS |
| 13.8 | 836.520650 | 650 | PASS |

| Channel 3 | | | |
|------------------|---------------|---------------------|-----------|
| Voltage | Frequency MHz | Frequency Error PPM | Pass/Fail |
| 10.2 | 848.970670 | 670 | PASS |
| 12.0 | 848.970680 | 680 | PASS |
| 13.8 | 848.970670 | 670 | PASS |

| <i>Equipment</i> | <i>Manufacturer</i> | <i>Model #</i> | <i>Serial #</i> | <i>Asset #</i> | <i>Cal Date</i> | <i>Cal Due</i> |
|-------------------|---------------------|----------------|-----------------|----------------|-----------------|----------------|
| Frequency Counter | HP | 5340A | 1532A03198 | 01253 | 9/5/01 | 9/5/02 |
| Power Supply, DC | HP | 6205C | 2228A01775 | 00762 | 5/31/2001 | 5/31/02 |
| QP Adapter | HP | 85650A | 2811A01267 | 00478 | 1/30/02 | 1/30/03 |
| S/A Display | HP | 8566B | 2403A08241 | 00489 | 1/30/02 | 1/30/03 |
| Spectrum Analyzer | HP | 8566B | 2209A01404 | 00490 | 1/30/02 | 1/30/03 |
| Temp Chamber | Thermotron | S-1.2 MiniMax | 11899 | 01879 | 3/29/2001 | 3/29/02 |
| Thermometer | Omega | HH-26K | T-202884 | 02242 | 7/26/01 | 7/26/02 |



Temperature Testing Setup

2.1091 – MPE CALCULATIONS

Maximum Permissible Exposure Calculations

Date of Report: February 26th, 2002

Calculations prepared for:
AnyDATA.net Incorporated
18902 Bardeen Ave.
Irvine, CA 92612

Calculations prepared by:
Eddie Wong
110 N. Olinda Place
Brea, CA 9283

Model Number: EMII-800
FCC Identification:

Fundamental Operating Frequency: 824.04-848.97MHz

Maximum Rated Output Power: 0.3162Watts
Measured Maximum Output Power: 0.16 watts ERP

MPE limit in accordance with FCC part 1.1311, table 1

Limit for Maximum permissible exposure: (B) Limit for General population/uncontrolled Exposure.

For frequency range of 300-1500 MHz, the MPE is $f / 1500$ (mW/cm²)

| Power Output (Watts) | Distance (Meters) | Power Density (mW/cm ²) | Limit (mW/cm ²) | Result |
|----------------------|-------------------|-------------------------------------|-----------------------------|-------------|
| 0.3162 | 0.2 | 0.1031 | 0.5573 | PASS |
| 0.1600 | 0.2 | 0.0522 | 0.5573 | PASS |

$$\text{Power Density (W/M}^2\text{)} = (30 * P_t * G) / (d^2 * Z_o)$$

- P_t = Power Delivered to the Antenna
- G = Antenna Gain
- d = Distance in meters
- Z_o = Impedance of Free Space

Under normal operating conditions, the antenna is designed to maintain a separation distance of 20 cm from all persons. As can be seen from the MPE results, this device passes the limits specified in 1.1311 at a distance of 20 cm and at the rated output power of 0.3162 Watts

15.107 – AC CONDUCTED EMISSIONS – RECEIVER/DIGITAL

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 15.107 Class B**
 Work Order #: **78420** Date: 2/25/02
 Test Type: **Conducted Emissions** Time: 13:49:11
 Equipment: **External CDMA Data Modem** Sequence#: 17
 Manufacturer: **AnyDATA.net Incorporated** Tested By: **Eddie Wong**
 Model: **EMII-800**
 S/N: **0201K10210**

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=9KHz. Receiver mode with Tx freq = 824.04 MHz. Range of measurement 450KHz-30MHz . 12Vdc (DC power supply at 110 Vac, 60Hz), 17°C, 57% relative humidity.

Transducer Legend:

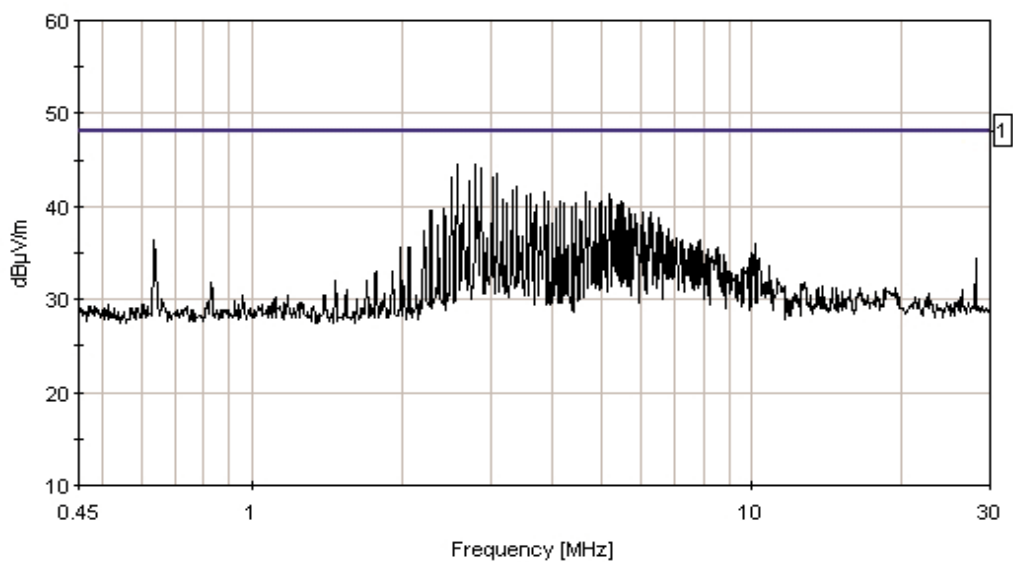
| |
|--|
| |
|--|

Measurement Data: Reading listed by margin. Test Lead: Black

| # | Freq MHz | Rdng dB μ V | dB | dB | dB | dB | Dist Table | Corr dB μ V/m | Spec dB μ V/m | Margin dB | Polar Ant |
|---|-------------|--------------------|----|----|----|----|---------------|----------------------|----------------------|--------------|--------------|
| 1 | 2.795M | 43.6 | | | | | +0.0 | 43.6 | 48.0 | -4.4 | Black |
| | QP | | | | | | | | | | |
| ^ | 2.795M | 44.6 | | | | | +0.0 | 44.6 | 48.0 | -3.4 | Black |
| 3 | 3.091M | 43.6 | | | | | +0.0 | 43.6 | 48.0 | -4.4 | Black |
| 4 | 2.504M | 43.2 | | | | | +0.0 | 43.2 | 48.0 | -4.8 | Black |
| 5 | 3.022M | 43.1 | | | | | +0.0 | 43.1 | 48.0 | -4.9 | Black |
| 6 | 2.728M | 42.7 | | | | | +0.0 | 42.7 | 48.0 | -5.3 | Black |

| | | | | | | | |
|----|--------|------|------|------|------|------|-------|
| 7 | 2.580M | 42.4 | +0.0 | 42.4 | 48.0 | -5.6 | Black |
| QP | | | | | | | |
| ^ | 2.580M | 44.6 | +0.0 | 44.6 | 48.0 | -3.4 | Black |
| 9 | 2.872M | 42.1 | +0.0 | 42.1 | 48.0 | -5.9 | Black |
| QP | | | | | | | |
| ^ | 2.872M | 44.1 | +0.0 | 44.1 | 48.0 | -3.9 | Black |
| 11 | 3.385M | 42.1 | +0.0 | 42.1 | 48.0 | -5.9 | Black |
| 12 | 3.313M | 41.7 | +0.0 | 41.7 | 48.0 | -6.3 | Black |
| 13 | 4.670M | 41.5 | +0.0 | 41.5 | 48.0 | -6.5 | Black |
| 14 | 3.851M | 41.5 | +0.0 | 41.5 | 48.0 | -6.5 | Black |
| 15 | 5.175M | 41.3 | +0.0 | 41.3 | 48.0 | -6.7 | Black |
| 16 | 3.607M | 41.3 | +0.0 | 41.3 | 48.0 | -6.7 | Black |
| 17 | 3.535M | 41.2 | +0.0 | 41.2 | 48.0 | -6.8 | Black |
| 18 | 3.168M | 40.7 | +0.0 | 40.7 | 48.0 | -7.3 | Black |

CKC Laboratories, Inc. Date: 02/25/2002 Time: 1:42:43 PM WO#: 78420
 FCC 15.107 Class B Test Lead: Black Sequence#: 17



— Sweep Data — 1-FCC 15.107 Class B

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 15.107 Class B**
 Work Order #: **78420** Date: 2/25/02
 Test Type: **Conducted Emissions** Time: 1:49:48 PM
 Equipment: **External CDMA Data Modem** Sequence#: 18
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=9KHz. Receiver mode with Tx freq = 824.04 MHz. Range of measurement 450KHz-30MHz 12Vdc (DC power supply at 110 Vac, 60Hz), 17°C, 57% relative humidity.

Transducer Legend:

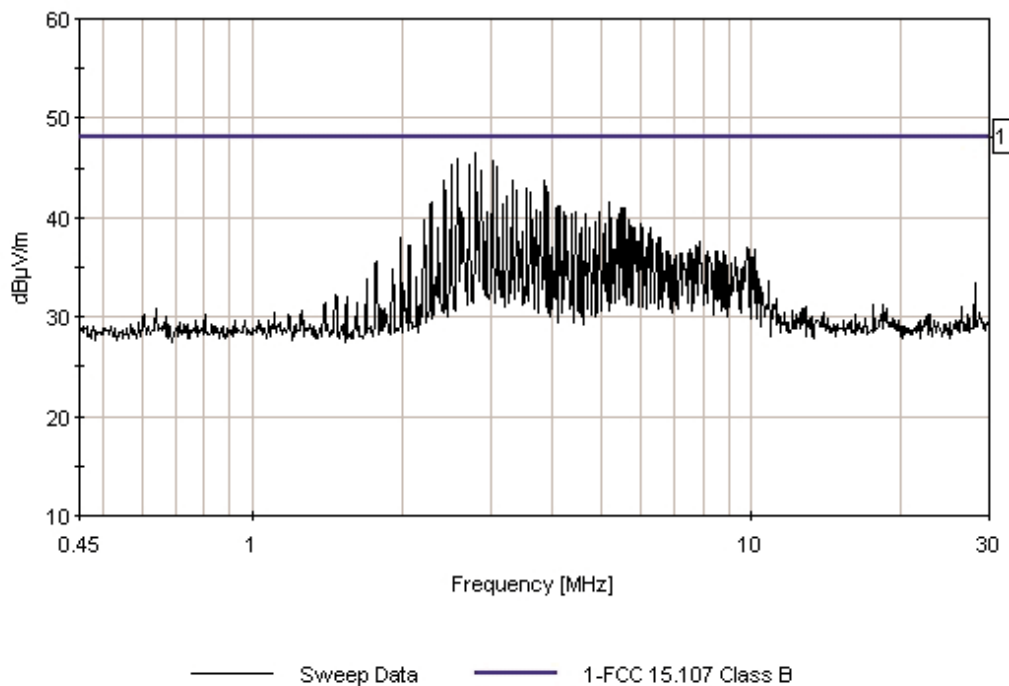
| |
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| |
|--|

Measurement Data: Reading listed by margin. Test Lead: White

| # | Freq MHz | Rdng dBµV | dB | dB | dB | dB | Dist Table | Corr dBµV/m | Spec dBµV/m | Margin dB | Polar Ant |
|---|----------|-----------|----|----|----|----|------------|-------------|-------------|-----------|-----------|
| 1 | 2.798M | 45.4 | | | | | +0.0 | 45.4 | 48.0 | -2.6 | White |
| | QP | | | | | | | | | | |
| ^ | 2.800M | 46.5 | | | | | +0.0 | 46.5 | 48.0 | -1.5 | White |
| 3 | 2.577M | 45.1 | | | | | +0.0 | 45.1 | 48.0 | -2.9 | White |
| | QP | | | | | | | | | | |
| ^ | 2.580M | 46.0 | | | | | +0.0 | 46.0 | 48.0 | -2.0 | White |
| 5 | 3.022M | 44.7 | | | | | +0.0 | 44.7 | 48.0 | -3.3 | White |
| | QP | | | | | | | | | | |
| ^ | 3.022M | 45.8 | | | | | +0.0 | 45.8 | 48.0 | -2.2 | White |
| 7 | 2.503M | 44.4 | | | | | +0.0 | 44.4 | 48.0 | -3.6 | White |
| | QP | | | | | | | | | | |
| ^ | 2.509M | 45.3 | | | | | +0.0 | 45.3 | 48.0 | -2.7 | White |
| 9 | 2.724M | 44.0 | | | | | +0.0 | 44.0 | 48.0 | -4.0 | White |
| | QP | | | | | | | | | | |
| ^ | 2.728M | 45.3 | | | | | +0.0 | 45.3 | 48.0 | -2.7 | White |

| | | | | | | | |
|----|--------|------|------|------|------|------|-------|
| 11 | 3.092M | 43.9 | +0.0 | 43.9 | 48.0 | -4.1 | White |
| | QP | | | | | | |
| ^ | 3.096M | 45.1 | +0.0 | 45.1 | 48.0 | -2.9 | White |
| 13 | 3.851M | 43.8 | +0.0 | 43.8 | 48.0 | -4.2 | White |
| 14 | 3.313M | 43.7 | +0.0 | 43.7 | 48.0 | -4.3 | White |
| 15 | 2.427M | 43.7 | +0.0 | 43.7 | 48.0 | -4.3 | White |
| 16 | 2.871M | 43.5 | +0.0 | 43.5 | 48.0 | -4.5 | White |
| | QP | | | | | | |
| ^ | 2.876M | 44.8 | +0.0 | 44.8 | 48.0 | -3.2 | White |
| 18 | 3.535M | 42.9 | +0.0 | 42.9 | 48.0 | -5.1 | White |
| 19 | 3.392M | 42.7 | +0.0 | 42.7 | 48.0 | -5.3 | White |
| 20 | 3.933M | 42.6 | +0.0 | 42.6 | 48.0 | -5.4 | White |
| 21 | 3.612M | 42.5 | +0.0 | 42.5 | 48.0 | -5.5 | White |
| 22 | 3.239M | 42.1 | +0.0 | 42.1 | 48.0 | -5.9 | White |

CKC Laboratories, Inc. Date: 02/25/2002 Time: 1:49:48 PM WFO#: 78420
FCC 15.107 Class B Test Lead: White Sequence#: 18



Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 15.107 Class B**
 Work Order #: **78420** Date: 2/25/02
 Test Type: **Conducted Emissions** Time: 2:05:16 PM
 Equipment: **External CDMA Data Modem** Sequence#: 20
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=9KHz. Receiver mode with Tx freq = 836.52 MHz. Range of measurement 450KHz-30MHz 12Vdc (DC power supply at 110 Vac, 60Hz), 17°C, 57% relative humidity.

Transducer Legend:

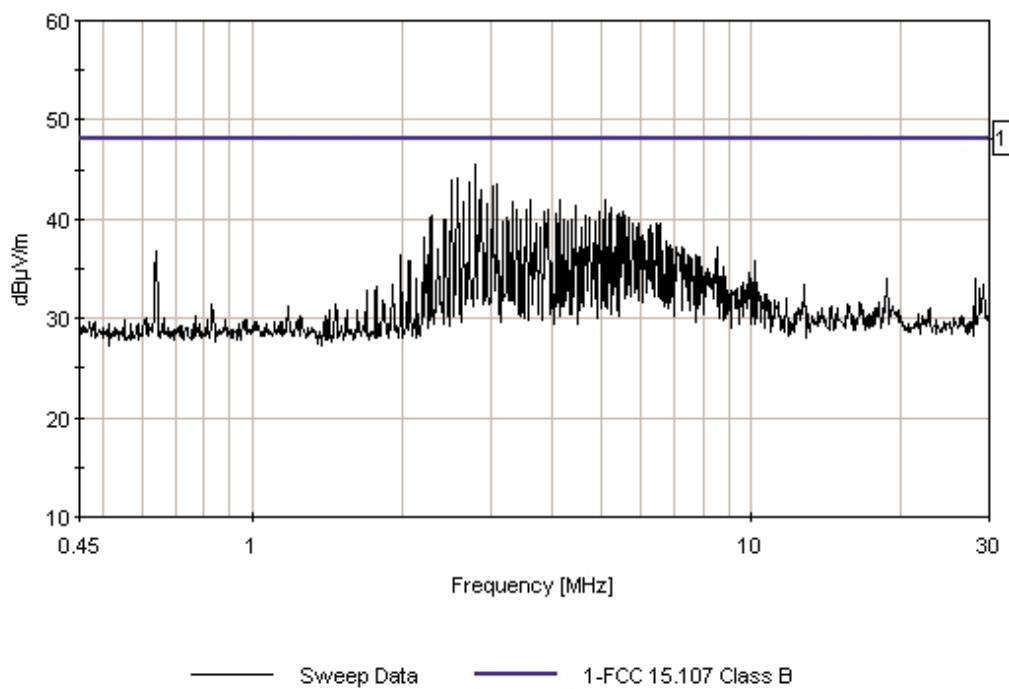
| |
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| |
|--|

Measurement Data: Reading listed by margin. Test Lead: Black

| # | Freq MHz | Rdng dBµV | dB | dB | dB | dB | Dist Table | Corr dBµV/m | Spec dBµV/m | Margin dB | Polar Ant |
|----|----------|-----------|----|----|----|----|------------|-------------|-------------|-----------|-----------|
| 1 | 2.796M | 44.5 | | | | | +0.0 | 44.5 | 48.0 | -3.5 | Black |
| | QP | | | | | | | | | | |
| ^ | 2.800M | 45.6 | | | | | +0.0 | 45.6 | 48.0 | -2.4 | Black |
| 3 | 2.504M | 43.9 | | | | | +0.0 | 43.9 | 48.0 | -4.1 | Black |
| 4 | 2.728M | 43.8 | | | | | +0.0 | 43.8 | 48.0 | -4.2 | Black |
| 5 | 3.091M | 43.5 | | | | | +0.0 | 43.5 | 48.0 | -4.5 | Black |
| 6 | 2.575M | 43.3 | | | | | +0.0 | 43.3 | 48.0 | -4.7 | Black |
| | QP | | | | | | | | | | |
| ^ | 2.580M | 44.1 | | | | | +0.0 | 44.1 | 48.0 | -3.9 | Black |
| 8 | 3.022M | 43.3 | | | | | +0.0 | 43.3 | 48.0 | -4.7 | Black |
| 9 | 2.872M | 43.0 | | | | | +0.0 | 43.0 | 48.0 | -5.0 | Black |
| 10 | 5.107M | 42.0 | | | | | +0.0 | 42.0 | 48.0 | -6.0 | Black |

| | | | | | | | |
|----|--------|------|------|------|------|------|-------|
| 11 | 4.152M | 42.0 | +0.0 | 42.0 | 48.0 | -6.0 | Black |
| 12 | 3.612M | 41.9 | +0.0 | 41.9 | 48.0 | -6.1 | Black |
| 13 | 3.316M | 41.8 | +0.0 | 41.8 | 48.0 | -6.2 | Black |
| 14 | 2.647M | 41.8 | +0.0 | 41.8 | 48.0 | -6.2 | Black |
| 15 | 2.943M | 41.5 | +0.0 | 41.5 | 48.0 | -6.5 | Black |
| 16 | 4.445M | 41.4 | +0.0 | 41.4 | 48.0 | -6.6 | Black |
| 17 | 5.257M | 41.1 | +0.0 | 41.1 | 48.0 | -6.9 | Black |

CKC Laboratories, Inc. Date: 02/25/2002 Time: 2:05:16 P WO#: 78420
 FCC 15.107 Class B Test Lead: Black Sequence#: 20



Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 15.107 Class B**
 Work Order #: **78420** Date: 2/25/02
 Test Type: **Conducted Emissions** Time: 1:58:17 PM
 Equipment: **External CDMA Data Modem** Sequence#: 19
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=9KHz. Receiver mode with Tx freq = 836.52 MHz. Range of measurement 450KHz-30MHz 12Vdc (DC power supply at 110 Vac, 60Hz), 17°C, 57% relative humidity.

Transducer Legend:

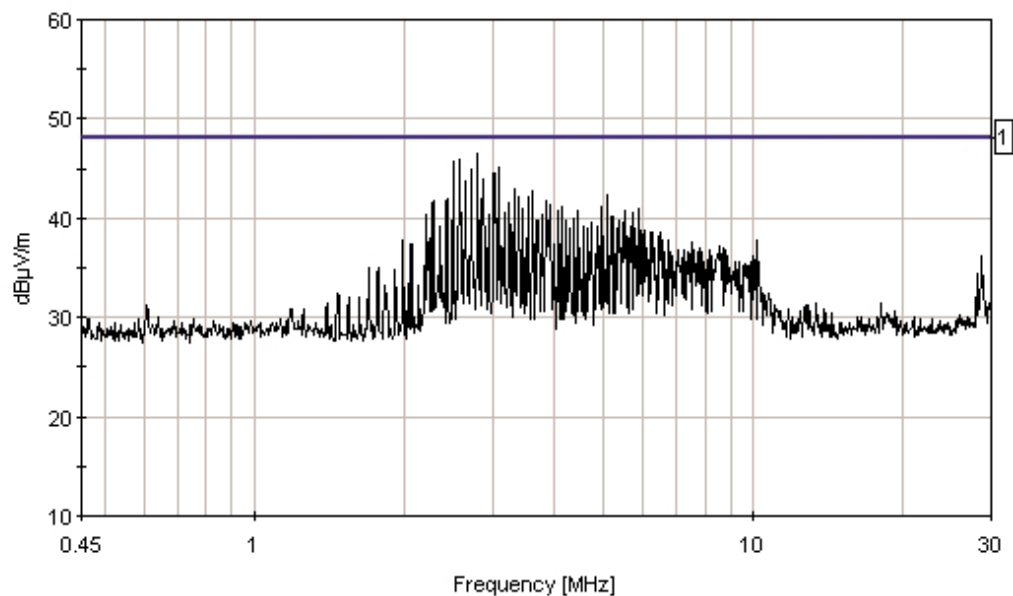
| |
|--|
| |
|--|

Measurement Data: Reading listed by margin. Test Lead: White

| # | Freq MHz | Rdng dBμV | dB | dB | dB | dB | Dist Table | Corr dBμV/m | Spec dBμV/m | Margin dB | Polar Ant |
|----|----------|-----------|----|----|----|----|------------|-------------|-------------|-----------|-----------|
| 1 | 2.796M | 45.7 | | | | | +0.0 | 45.7 | 48.0 | -2.3 | White |
| | QP | | | | | | | | | | |
| ^ | 2.800M | 46.5 | | | | | +0.0 | 46.5 | 48.0 | -1.5 | White |
| 3 | 2.574M | 44.7 | | | | | +0.0 | 44.7 | 48.0 | -3.3 | White |
| | QP | | | | | | | | | | |
| ^ | 2.576M | 45.9 | | | | | +0.0 | 45.9 | 48.0 | -2.1 | White |
| 5 | 2.502M | 44.5 | | | | | +0.0 | 44.5 | 48.0 | -3.5 | White |
| | QP | | | | | | | | | | |
| ^ | 2.504M | 45.7 | | | | | +0.0 | 45.7 | 48.0 | -2.3 | White |
| 7 | 2.722M | 44.0 | | | | | +0.0 | 44.0 | 48.0 | -4.0 | White |
| | QP | | | | | | | | | | |
| ^ | 2.728M | 45.0 | | | | | +0.0 | 45.0 | 48.0 | -3.0 | White |
| 9 | 2.872M | 44.0 | | | | | +0.0 | 44.0 | 48.0 | -4.0 | White |
| 10 | 2.647M | 43.7 | | | | | +0.0 | 43.7 | 48.0 | -4.3 | White |

| | | | | | | | |
|----|--------|------|------|------|------|------|-------|
| 11 | 3.017M | 43.5 | +0.0 | 43.5 | 48.0 | -4.5 | White |
| | QP | | | | | | |
| ^ | 3.020M | 44.6 | +0.0 | 44.6 | 48.0 | -3.4 | White |
| 13 | 3.090M | 43.4 | +0.0 | 43.4 | 48.0 | -4.6 | White |
| | QP | | | | | | |
| ^ | 3.096M | 45.1 | +0.0 | 45.1 | 48.0 | -2.9 | White |
| 15 | 3.316M | 42.9 | +0.0 | 42.9 | 48.0 | -5.1 | White |
| 16 | 3.607M | 42.7 | +0.0 | 42.7 | 48.0 | -5.3 | White |
| 17 | 5.107M | 42.3 | +0.0 | 42.3 | 48.0 | -5.7 | White |
| 18 | 3.392M | 42.2 | +0.0 | 42.2 | 48.0 | -5.8 | White |
| 19 | 3.540M | 42.1 | +0.0 | 42.1 | 48.0 | -5.9 | White |
| 20 | 2.432M | 41.9 | +0.0 | 41.9 | 48.0 | -6.1 | White |
| 21 | 2.284M | 41.8 | +0.0 | 41.8 | 48.0 | -6.2 | White |

CKC Laboratories, Inc. Date: 02/25/2002 Time: 1:58:17 PM WFO#: 78420
FCC 15.107 Class B Test Lead: White Sequence#: 19



— Sweep Data — 1-FCC 15.107 Class B

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 15.107 Class B**
 Work Order #: **78420** Date: 2/25/02
 Test Type: **Conducted Emissions** Time: 2:10:34 PM
 Equipment: **External CDMA Data Modem** Sequence#: 21
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=9KHz. Receiver mode with Tx freq = 849.97 MHz. Range of measurement 450KHz-30MHz 12Vdc (DC power supply at 110 Vac, 60Hz), 17°C, 57% relative humidity.

Transducer Legend:

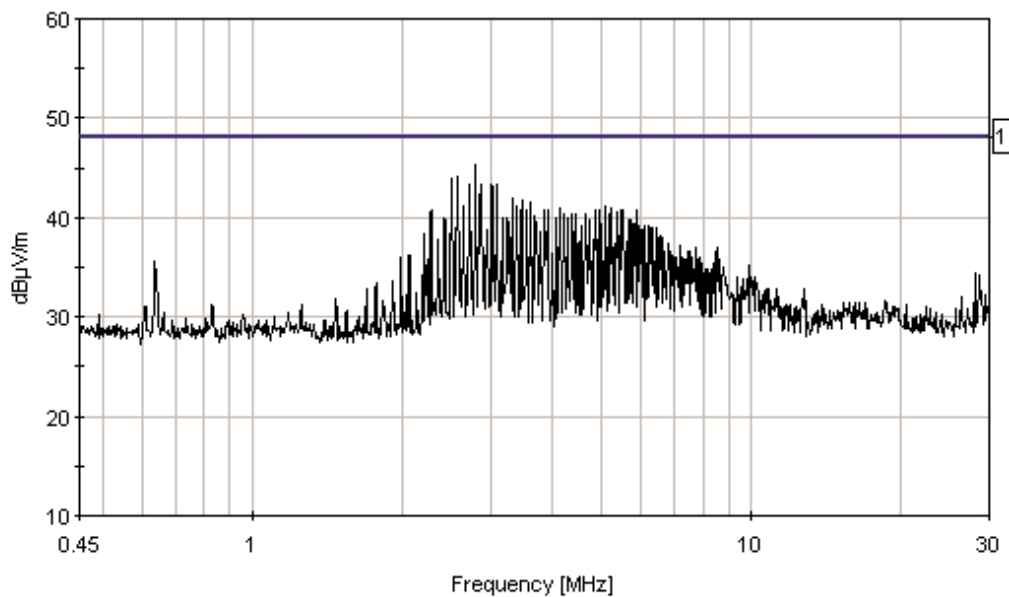
| |
|--|
| |
|--|

Measurement Data: Reading listed by margin. Test Lead: Black

| # | Freq MHz | Rdng dBµV | dB | | | | Dist Table | Corr dBµV/m | Spec dBµV/m | Margin dB | Polar Ant |
|----|----------|-----------|----|--|--|--|------------|-------------|-------------|-----------|-----------|
| 1 | 2.795M | 44.5 | | | | | +0.0 | 44.5 | 48.0 | -3.5 | Black |
| | QP | | | | | | | | | | |
| ^ | 2.800M | 45.4 | | | | | +0.0 | 45.4 | 48.0 | -2.6 | Black |
| 3 | 2.501M | 44.0 | | | | | +0.0 | 44.0 | 48.0 | -4.0 | Black |
| 4 | 3.091M | 43.4 | | | | | +0.0 | 43.4 | 48.0 | -4.6 | Black |
| 5 | 2.872M | 43.4 | | | | | +0.0 | 43.4 | 48.0 | -4.6 | Black |
| 6 | 2.728M | 43.4 | | | | | +0.0 | 43.4 | 48.0 | -4.6 | Black |
| 7 | 3.020M | 43.3 | | | | | +0.0 | 43.3 | 48.0 | -4.7 | Black |
| 8 | 2.575M | 43.2 | | | | | +0.0 | 43.2 | 48.0 | -4.8 | Black |
| | QP | | | | | | | | | | |
| ^ | 2.576M | 44.2 | | | | | +0.0 | 44.2 | 48.0 | -3.8 | Black |
| 10 | 3.313M | 42.0 | | | | | +0.0 | 42.0 | 48.0 | -6.0 | Black |

| | | | | | | | |
|----|--------|------|------|------|------|------|-------|
| 11 | 3.464M | 41.8 | +0.0 | 41.8 | 48.0 | -6.2 | Black |
| 12 | 3.612M | 41.6 | +0.0 | 41.6 | 48.0 | -6.4 | Black |
| 13 | 3.387M | 41.2 | +0.0 | 41.2 | 48.0 | -6.8 | Black |
| 14 | 2.652M | 41.2 | +0.0 | 41.2 | 48.0 | -6.8 | Black |
| 15 | 5.107M | 41.1 | +0.0 | 41.1 | 48.0 | -6.9 | Black |
| 16 | 5.244M | 41.0 | +0.0 | 41.0 | 48.0 | -7.0 | Black |
| 17 | 4.152M | 40.9 | +0.0 | 40.9 | 48.0 | -7.1 | Black |

CKC Laboratories, Inc. Date: 02/25/2002 Time: 2:10:34 PM W/O#: 78420
 FCC 15.107 Class B Test Lead: Black Sequence#: 21



Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**

Specification: **FCC 15.107 Class B**

Work Order #: **78420**

Date: 2/25/02

Test Type: **Conducted Emissions**

Time: 2:19:32 PM

Equipment: **External CDMA Data Modem**

Sequence#: 22

Manufacturer: AnyDATA.net Incorporated

Tested By: Eddie Wong

Model: EMII-800

S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=9KHz. Receiver mode with Tx freq = 849.97 MHz. Range of measurement 450KHz-30MHz 12Vdc (DC power supply at 110 Vac, 60Hz), 17°C, 57% relative humidity.

Transducer Legend:

| |
|--|
| |
|--|

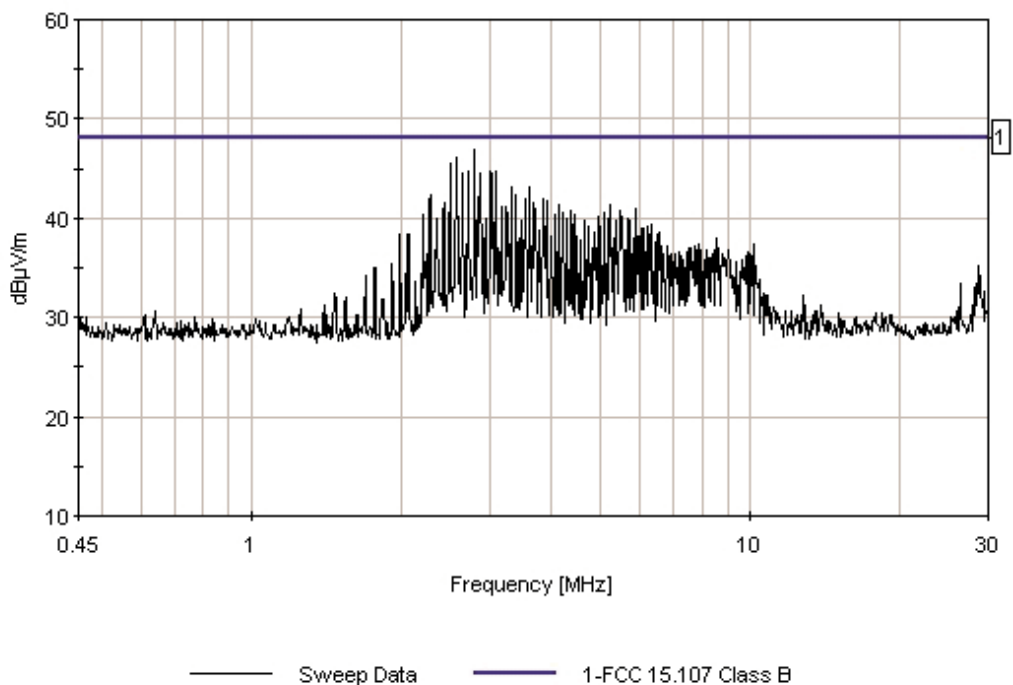
Measurement Data: Reading listed by margin.

Test Lead: White

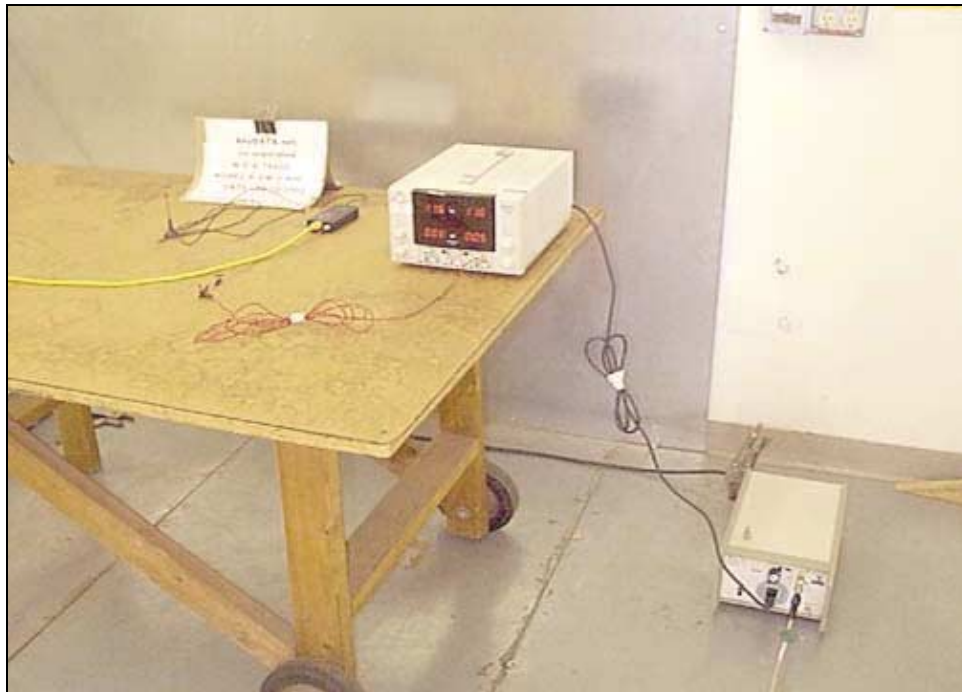
| # | Freq MHz | Rdng dBµV | dB | dB | dB | dB | Dist Table | Corr dBµV/m | Spec dBµV/m | Margin dB | Polar Ant |
|---|----------|-----------|----|----|----|----|------------|-------------|-------------|-----------|-----------|
| 1 | 2.797M | 45.7 | | | | | +0.0 | 45.7 | 48.0 | -2.3 | White |
| | QP | | | | | | | | | | |
| ^ | 2.800M | 46.9 | | | | | +0.0 | 46.9 | 48.0 | -1.1 | White |
| 3 | 2.576M | 45.2 | | | | | +0.0 | 45.2 | 48.0 | -2.8 | White |
| | QP | | | | | | | | | | |
| ^ | 2.576M | 46.1 | | | | | +0.0 | 46.1 | 48.0 | -1.9 | White |
| 5 | 2.503M | 44.6 | | | | | +0.0 | 44.6 | 48.0 | -3.4 | White |
| | QP | | | | | | | | | | |
| ^ | 2.501M | 45.6 | | | | | +0.0 | 45.6 | 48.0 | -2.4 | White |
| 7 | 2.872M | 43.5 | | | | | +0.0 | 43.5 | 48.0 | -4.5 | White |
| | QP | | | | | | | | | | |
| ^ | 2.872M | 44.6 | | | | | +0.0 | 44.6 | 48.0 | -3.4 | White |
| 9 | 3.092M | 43.5 | | | | | +0.0 | 43.5 | 48.0 | -4.5 | White |
| | QP | | | | | | | | | | |
| ^ | 3.096M | 44.7 | | | | | +0.0 | 44.7 | 48.0 | -3.3 | White |

| | | | | | | | |
|----|--------|------|------|------|------|------|-------|
| 11 | 2.725M | 43.4 | +0.0 | 43.4 | 48.0 | -4.6 | White |
| | QP | | | | | | |
| ^ | 2.728M | 44.7 | +0.0 | 44.7 | 48.0 | -3.3 | White |
| 13 | 3.018M | 43.3 | +0.0 | 43.3 | 48.0 | -4.7 | White |
| | QP | | | | | | |
| ^ | 3.020M | 44.7 | +0.0 | 44.7 | 48.0 | -3.3 | White |
| 15 | 3.612M | 43.2 | +0.0 | 43.2 | 48.0 | -4.8 | White |
| 16 | 3.313M | 43.2 | +0.0 | 43.2 | 48.0 | -4.8 | White |
| 17 | 3.387M | 42.4 | +0.0 | 42.4 | 48.0 | -5.6 | White |
| 18 | 2.284M | 42.4 | +0.0 | 42.4 | 48.0 | -5.6 | White |
| 19 | 3.838M | 42.0 | +0.0 | 42.0 | 48.0 | -6.0 | White |
| 20 | 3.535M | 41.9 | +0.0 | 41.9 | 48.0 | -6.1 | White |
| 21 | 3.920M | 41.8 | +0.0 | 41.8 | 48.0 | -6.2 | White |
| 22 | 2.651M | 38.9 | +0.0 | 38.9 | 48.0 | -9.1 | White |
| | QP | | | | | | |
| ^ | 2.647M | 44.5 | +0.0 | 44.5 | 48.0 | -3.5 | White |

| | | | |
|------------------------|------------------|------------------|------------|
| CKC Laboratories, Inc. | Date: 02/25/2002 | Time: 2:19:32 PM | WO#: 78420 |
| FCC 15.107 Class B | Test Lead: White | Sequence#: 22 | |



| Equipment | Asset # | Manufacturer | Model # | Serial # | Cal Date | Cal Due |
|-------------------|---------|--------------|----------|------------|----------|---------|
| Spectrum Analyzer | 01865 | HP | 8566B | 2532A02509 | 092801 | 092802 |
| QP Adapter | 01437 | HP | 85650A | 3303A01884 | 092801 | 092802 |
| LISN | 02128 | EMCO | 3816/2NM | 9809-1090 | 030701 | 030702 |
| LISN | 00847 | EMCO | 3816/2NM | 1104 | 101501 | 101502 |



AC Conducted Emissions Test Setup - Front View



AC Conducted Emissions Test Setup - Back View

15.109 – RADIATED EMISSIONS – RECEIVER/DIGITAL

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 15.109 Class B**
 Work Order #: **78420** Date: 2/25/02
 Test Type: **Maximized Emissions** Time: 12:07:01
 Equipment: **External CDMA Data Modem** Sequence#: 14
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=120KHz. Receiver mode with Tx freq = 824.04 MHz. Range of measurement 30-1000MHz. 12Vdc, 17°C, 57% relative humidity.

Transducer Legend:

| | |
|------------------------|---------------------|
| T1=Log 331 092401 | T2=Bicon 092401 |
| T3=Cable #10 071601 | T4=Cable #15 120602 |
| T5=Preamp 8447D 090501 | |

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

| # | Freq | Rdng | T1 T5 | T2 | T3 | T4 | Dist | Corr | Spec | Margin | Polar |
|---|----------------|------|----------------|------|------|------|-------------|--------|--------|--------|--------------|
| | MHz | dBμV | dB | dB | dB | dB | Table | dBμV/m | dBμV/m | dB | Ant |
| 1 | 954.411M QP | 37.4 | +23.7 -27.7 | +0.0 | +0.6 | +6.3 | +0.0 325 | 40.3 | 46.0 | -5.7 | Horiz 99 |
| 2 | 954.408M QP | 37.2 | +23.7 -27.7 | +0.0 | +0.6 | +6.3 | +0.0 176 | 40.1 | 46.0 | -5.9 | Horiz 99 |
| ^ | 954.442M | 38.5 | +23.7 -27.7 | +0.0 | +0.6 | +6.3 | +0.0 325 | 41.4 | 46.0 | -4.6 | Horiz 99 |
| ^ | 954.408M | 38.3 | +23.7 -27.7 | +0.0 | +0.6 | +6.3 | +0.0 176 | 41.2 | 46.0 | -4.8 | Horiz 99 |
| ^ | 954.408M | 34.1 | +23.7 -27.7 | +0.0 | +0.6 | +6.3 | +0.0 237 | 37.0 | 46.0 | -9.0 | Horiz 169 |

| | | | | | | | | | | | |
|----|----------------|------|----------------|-------|------|------|-------------|------|------|-------|--------------|
| 6 | 782.305M QP | 39.6 | +21.7 -27.7 | +0.0 | +0.6 | +5.6 | +0.0 212 | 39.8 | 46.0 | -6.2 | Vert 100 |
| ^ | 782.310M | 42.3 | +21.7 -27.7 | +0.0 | +0.6 | +5.6 | +0.0 212 | 42.5 | 46.0 | -3.5 | Vert 100 |
| 8 | 954.410M | 35.8 | +23.7 -27.7 | +0.0 | +0.6 | +6.3 | +0.0 151 | 38.7 | 46.0 | -7.3 | Vert 194 |
| 9 | 782.327M QP | 37.6 | +21.7 -27.7 | +0.0 | +0.6 | +5.6 | +0.0 1 | 37.8 | 46.0 | -8.2 | Horiz 99 |
| ^ | 782.309M | 40.1 | +21.7 -27.7 | +0.0 | +0.6 | +5.6 | +0.0 1 | 40.3 | 46.0 | -5.7 | Horiz 99 |
| 11 | 151.217M | 38.3 | +0.0 -28.4 | +17.4 | +0.2 | +2.2 | +0.0 283 | 29.7 | 43.5 | -13.8 | Horiz 156 |
| 12 | 521.499M | 30.5 | +17.4 -28.5 | +0.0 | +0.4 | +4.5 | +0.0 84 | 24.3 | 46.0 | -21.7 | Horiz 99 |
| 13 | 159.856M | 28.4 | +0.0 -28.3 | +17.6 | +0.2 | +2.3 | +0.0 349 | 20.2 | 43.5 | -23.3 | Vert 101 |
| 14 | 452.700M | 23.0 | +16.3 -28.7 | +0.0 | +0.4 | +4.0 | +0.0 311 | 15.0 | 46.0 | -31.0 | Horiz 99 |

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112
 Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 15.109 Class B**
 Work Order #: **78420** Date: 2/25/02
 Test Type: **Maximized Emissions** Time: 11:19:05
 Equipment: **External CDMA Data Modem** Sequence#: 15
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800 S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=120KHz. Receiver mode with Tx freq = 836.52 MHz. Range of measurement 30-1000MHz. 12Vdc, 17°C, 57% relative humidity.

Transducer Legend:

| | |
|------------------------|---------------------|
| T1=Log 331 092401 | T2=Bicon 092401 |
| T3=Cable #10 071601 | T4=Cable #15 120602 |
| T5=Preamp 8447D 090501 | |

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

| # | Freq MHz | Rdng dBμV | T1 dB | T2 dB | T3 dB | T4 dB | Dist Table | Corr dBμV/m | Spec dBμV/m | Margin dB | Polar Ant |
|----|-------------|--------------|----------|----------|----------|----------|---------------|----------------|--------------------|--------------|--------------|
| 1 | 782.322M | 39.0 | +21.7 | +0.0 | +0.6 | +5.6 | +0.0 | 39.2 | 46.0 | -6.8 | Vert |
| | QP | | -27.7 | | | | 95 | | | | 100 |
| ^ | 782.290M | 40.1 | +21.7 | +0.0 | +0.6 | +5.6 | +0.0 | 40.3 | 46.0 | -5.7 | Vert |
| | | | -27.7 | | | | 95 | | | | 100 |
| 3 | 782.338M | 38.3 | +21.7 | +0.0 | +0.6 | +5.6 | +0.0 | 38.5 | 46.0 | -7.5 | Horiz |
| | QP | | -27.7 | | | | 360 | | | | 106 |
| ^ | 782.306M | 41.5 | +21.7 | +0.0 | +0.6 | +5.6 | +0.0 | 41.7 | 46.0 | -4.3 | Horiz |
| | | | -27.7 | | | | 360 | | | | 106 |
| 5 | 966.872M | 38.5 | +23.9 | +0.0 | +0.6 | +6.5 | +0.0 | 41.7 | 54.0 | -12.3 | Horiz |
| | | | -27.8 | | | | 68 | | Receiver L.O. Freq | | 99 |
| 6 | 966.881M | 38.1 | +23.9 | +0.0 | +0.6 | +6.5 | +0.0 | 41.3 | 54.0 | -12.7 | Vert |
| | | | -27.8 | | | | 112 | | Receiver L.O. Freq | | 111 |
| 7 | 569.240M | 26.2 | +18.3 | +0.0 | +0.4 | +4.7 | +0.0 | 21.2 | 46.0 | -24.8 | Horiz |
| | | | -28.4 | | | | 71 | | | | 132 |
| 8 | 214.670M | 26.9 | +0.0 | +17.1 | +0.3 | +2.7 | +0.0 | 18.7 | 43.5 | -24.8 | Vert |
| | | | -28.3 | | | | 155 | | | | 101 |
| 9 | 430.860M | 28.3 | +16.0 | +0.0 | +0.4 | +3.9 | +0.0 | 20.0 | 46.0 | -26.0 | Horiz |
| | | | -28.6 | | | | 71 | | | | 132 |
| 10 | 68.717M | 33.4 | +0.0 | +7.0 | +0.1 | +1.5 | +0.0 | 13.4 | 40.0 | -26.6 | Horiz |
| | | | -28.6 | | | | 132 | | | | 156 |

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112
 Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 15.109 Class B**
 Work Order #: **78420** Date: 2/25/02
 Test Type: **Maximized Emissions** Time: 11:02:45
 Equipment: **External CDMA Data Modem** Sequence#: 16
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=120KHz. Receiver mode with Tx freq = 848.97 MHz. Range of measurement 30-1000MHz. 12Vdc, 17°C, 57% relative humidity.

Transducer Legend:

| | |
|------------------------|---------------------|
| T1=Log 331 092401 | T2=Bicon 092401 |
| T3=Cable #10 071601 | T4=Cable #15 120602 |
| T5=Preamp 8447D 090501 | |

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

| # | Freq MHz | Rdng dBµV | T1 T5 dB | T2 dB | T3 dB | T4 dB | Dist Table | Corr dBµV/m | Spec dBµV/m | Margin dB | Polar Ant |
|----|----------------|--------------|----------------|----------|----------|----------|---------------|----------------|----------------------------|--------------|--------------|
| 1 | 782.303M QP | 39.8 | +21.7 -27.7 | +0.0 | +0.6 | +5.6 | +0.0 253 | 40.0 | 46.0 | -6.0 | Vert 100 |
| ^ | 782.304M | 40.9 | +21.7 -27.7 | +0.0 | +0.6 | +5.6 | +0.0 253 | 41.1 | 46.0 | -4.9 | Vert 100 |
| 3 | 782.305M QP | 38.7 | +21.7 -27.7 | +0.0 | +0.6 | +5.6 | +0.0 360 | 38.9 | 46.0 | -7.1 | Horiz 100 |
| ^ | 782.309M | 41.2 | +21.7 -27.7 | +0.0 | +0.6 | +5.6 | +0.0 360 | 41.4 | 46.0 | -4.6 | Horiz 111 |
| 5 | 979.366M | 40.3 | +24.0 -27.8 | +0.0 | +0.6 | +6.7 | +0.0 67 | 43.8 | 54.0 Receiver L.O. Freq | -10.2 | Horiz 100 |
| 6 | 979.366M | 37.4 | +24.0 -27.8 | +0.0 | +0.6 | +6.7 | +0.0 108 | 40.9 | 54.0 Receiver L.O. Freq | -13.1 | Vert 110 |
| 7 | 844.780M | 25.7 | +22.2 -27.7 | +0.0 | +0.6 | +5.8 | +0.0 116 | 26.6 | 46.0 | -19.4 | Horiz 124 |
| 8 | 154.035M | 29.7 | +0.0 -28.4 | +17.5 | +0.2 | +2.2 | +0.0 53 | 21.2 | 43.5 | -22.3 | Vert 101 |
| 9 | 237.704M | 27.2 | +0.0 -28.2 | +17.6 | +0.3 | +2.8 | +0.0 330 | 19.7 | 46.0 | -26.3 | Horiz 156 |
| 10 | 365.100M | 22.6 | +17.7 -28.2 | +0.0 | +0.3 | +3.6 | +0.0 116 | 16.0 | 46.0 | -30.0 | Horiz 124 |

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 15.109 Class B**
 Work Order #: **78420** Date: 2/22/02
 Test Type: **Maximized Emissions** Time: 15:36:26
 Equipment: **External CDMA Data Modem** Sequence#: 11
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=1 MHz. Receiver mode with Tx freq = 824.04 MHz. Range of measurement 1-9 GHz. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

| | |
|------------------------------|------------------------------------|
| T1=Horn Antenna sn6246 | T2=HP3017A sn3123A00281 11-Sept-01 |
| T3=Heliac #18 70' 11Sept2001 | |

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

| # | Freq MHz | Rdng dBµV | T1 dB | T2 dB | T3 dB | Dist dB | Table | Corr dBµV/m | Spec dBµV/m | Margin dB | Polar Ant |
|---|-------------|--------------|----------|----------|----------|------------|-------|----------------|----------------|--------------|--------------|
| 1 | 1908.820M | 40.2 | +26.1 | -38.3 | +3.6 | +0.0 | 358 | 31.6 | 54.0 | -22.4 | Horiz 100 |
| 2 | 2589.700M | 30.1 | +28.2 | -38.6 | +4.2 | +0.0 | 141 | 23.9 | 54.0 | -30.1 | Vert 100 |
| 3 | 1048.800M | 29.6 | +24.0 | -40.4 | +2.7 | +0.0 | 50 | 15.9 | 54.0 | -38.1 | Vert 100 |

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 15.109 Class B**
 Work Order #: **78420** Date: 2/22/02
 Test Type: **Maximized Emissions** Time: 15:17:53
 Equipment: **External CDMA Data Modem** Sequence#: 12
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. Tx/RX antenna is connected to the antenna port. RBW=VBW=1 MHz. Receiver mode with Tx freq = 836.52 MHz. Range of measurement 1-9 GHz. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

| | |
|------------------------------|------------------------------------|
| T1=Horn Antenna sn6246 | T2=HP3017A sn3123A00281 11-Sept-01 |
| T3=Heliac #18 70' 11Sept2001 | |

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

| # | Freq MHz | Rdng dBµV | T1 dB | T2 dB | T3 dB | Dist Table | Corr dBµV/m | Spec dBµV/m | Margin dB | Polar Ant |
|---|-----------|-----------|-------|-------|-------|-------------|-------------|-------------|-----------|--------------|
| 1 | 1933.780M | 43.5 | +26.2 | -38.3 | +3.7 | +0.0 248 | 35.1 | 54.0 | -18.9 | Horiz 100 |
| 2 | 3292.000M | 28.8 | +30.6 | -37.5 | +5.6 | +0.0 330 | 27.5 | 54.0 | -26.5 | Vert 100 |
| 3 | 1327.000M | 33.2 | +24.3 | -39.1 | +3.1 | +0.0 320 | 21.5 | 54.0 | -32.5 | Vert 100 |

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 15.109 Class B**
 Work Order #: **78420** Date: 2/22/02
 Test Type: **Maximized Emissions** Time: 15:15:16
 Equipment: **External CDMA Data Modem** Sequence#: 13
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model # | S/N |
|---------------------------|--------------------------|----------|------------|
| External CDMA Data Modem* | AnyDATA.net Incorporated | EMII-800 | 0201K10210 |

Support Devices:

| Function | Manufacturer | Model # | S/N |
|----------|--------------|-------------|----------------|
| Laptop | Samsung | Academy 680 | 558791ANB00124 |

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=1 MHz. Receiver mode with Tx freq = 848.97 MHz. Range of measurement 1-9 GHz. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

| | |
|------------------------------|------------------------------------|
| T1=Horn Antenna sn6246 | T2=HP3017A sn3123A00281 11-Sept-01 |
| T3=Heliac #18 70' 11Sept2001 | |

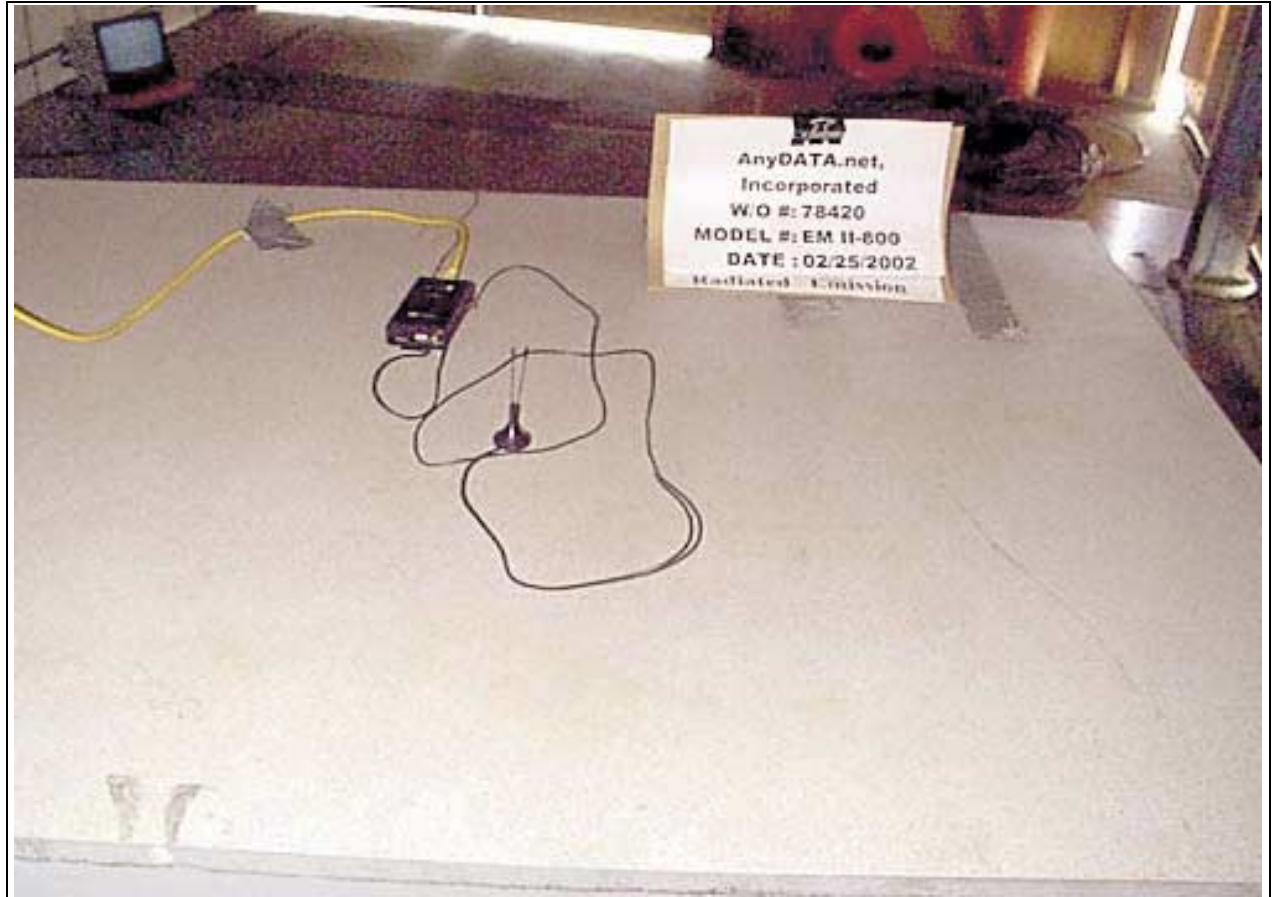
Measurement Data: Reading listed by margin. Test Distance: 3 Meters

| # | Freq MHz | Rdng dBµV | T1 dB | T2 dB | T3 dB | Dist Table | Corr dBµV/m | Spec dBµV/m | Margin dB | Polar Ant |
|---|-----------|-----------|-------|-------|-------|-------------|-------------|-------------|-----------|--------------|
| 1 | 3917.300M | 37.1 | +31.8 | -37.6 | +6.1 | +0.0 179 | 37.4 | 54.0 | -16.6 | Horiz 100 |
| 2 | 1958.600M | 42.5 | +26.3 | -38.4 | +3.8 | +0.0 | 34.2 | 54.0 | -19.8 | Horiz 100 |
| 3 | 6983.800M | 23.4 | +35.5 | -37.4 | +8.0 | +0.0 71 | 29.5 | 54.0 | -24.5 | Vert 100 |

| Equipment | Asset # | Manufacturer | Model # | Serial # | Cal Date | Cal Due |
|------------------------|---------|--------------|------------|------------------|----------|---------|
| Spectrum Analyzer | 01865 | HP | 8566B | 2532A02509 | 092801 | 092802 |
| QP Adapter | 01437 | HP | 85650A | 3303A01884 | 092801 | 092802 |
| Bicon Antenna | 306 | AH | SAS200/540 | 220 | 092401 | 092402 |
| Log Periodic Antenna | 331 | AH | SAS 00/516 | 330 | 092401 | 092402 |
| Pre-amp | 00309 | HP | 8447D | 1937A02548 | 090501 | 090502 |
| Antenna cable | NA | NA | RG214 | Cable#15 | 122001 | 122002 |
| Pre-amp to SA cable | NA | Harbour | RG223/U | Cable#10 | 071601 | 071602 |
| 1000-90,000 MHz | | | | | | |
| Spectrum Analyzer | 01865 | HP | 8566B | 2532A02509 | 092801 | 092802 |
| QP Adapter | 01437 | HP | 85650A | 3303A01884 | 092801 | 092802 |
| Horn Antenna | 0646 | EMCO | 3115 | 4683 | 022801 | 022802 |
| Microwave Pre-amp | 00786 | HP | 83017A | 3123A00281 | 091201 | 091202 |
| ¼" Helix Coaxial Cable | NA | Andrew | LDF1-50 | Cable#18 (70 ft) | 091101 | 091102 |



OATS Test Setup - Front View



OATS Test Setup - Back View