



ANYDATA.NET, INCORPORATED TEST REPORT

FOR THE

CDMA WIRELESS DATA MODEM, EMIII-DUAL

FCC PART 22, PART 24 & PART 15 SUBPART B SECTIONS 15.107 AND 15.109 CLASS B

COMPLIANCE

DATE OF ISSUE: APRIL 23, 2002

PREPARED FOR:

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

P.O. No.: ANY-0011 W.O. No.: 78691

PREPARED BY:

Mary Ellen Clayton CKC Laboratories, Inc. 5473A Clouds Rest Mariposa, CA 95338

Date of test: April 4 – May 7, 2002

Report No.: FC02-038

This report contains a total of 81 pages and may be reproduced in full only. Partial reproduction may only be done with the written consent of CKC Laboratories, Inc. The results in this report apply only to the items tested, as identified herein.



TABLE OF CONTENTS

Administrative Information	3
Summary of Results	4
Conditions for Compliance	4
Approvals	
Equipment Under Test (EUT) Description	5
Equipment Under Test	5
Peripheral Devices	5
Temperature and Humidity During Testing	5
2.1033(c)(3) User's Manual	
2.1033(c)(4) Type of Emissions	6
2.1033(c)(5) Frequency Range	6
2.1033(c)(6) Operating Power	
2.1033(c)(7) Maximum Power Rating	6
2.1033(c)(8) DC Voltages	
2.1033(c)(9) Tune-Up Procedure	
2.1033(c)(10) Schematics and Circuitry Description	6
2.1033(c)(11) Label and Placement	6
2.1033(c)(12) Submittal Photos	6
2.1033(c)(13) Modulation Information	
2.1033(c)(14)/2.1046/22.913/24.232(b) - RF Power Output	7
2.1033(c)(14)/2.1047(b) - Modulation - Audio Frequency Response	12
2.1033(c)(14)/2.1047(b) - Modulation - Modulation Limiting Response	12
2.1033(c)(14)/2.1049(i) - Occupied Bandwidth	12
2.1033(c)(14)/2.1051/22.917(e)/24.238 - Spurious Emissions at Antenna Terminal	
2.1033(c)(14)/2.1053/22.917(e)/24.238 - Field Strength of Spurious Radiation	30
2.1033(c)(14)/2.1055/22.355/24.235 - Frequency Stability	42
2.1091 - Maximum Permissible Exposure Calculations	
15.107 - AC Conducted Emissions - Receiver/Digital	45
15.109 - Radiated Emissions - Receiver/Digital	71



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:	April 4 – May 7, 2002
DATE OF RECEIPT:	April 4, 2002
PURPOSE OF TEST:	To demonstrate the compliance of the CDMA Wireless Data Modem, EMIII-Dual with the requirements for FCC Part 22, Part 24 & Part 15 Subpart B Sections 15.107 and 15.109 Class B devices.
TEST METHOD:	FCC Part 22, Part 24 & ANSI C63.4 (1992)
FREQUENCY RANGE TESTED:	9 kHz - 20 GHz
MANUFACTURER:	AnyDATA.NET, Incorporated 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, Incorporated CDMA Wireless Data Modem, EMIII-Dual was found to be fully compliant with the following standards and specifications:

United States

- FCC Part 22, Part 24 & Part 15 Subpart B Sections 15.107 and 15.109 Class B
- FCC Part 22, Part 24 & ANSI C63.4 (1992) method

CONDITIONS FOR COMPLIANCE

Note: Enhanced grounding integrity by bonding the CDMA modem to the ground plane of the PCB with copper tape.

APPROVALS

QUALITY ASSURANCE:

Steve Behm, Manager of Engineering Services

Joyce Walker, Quality Assurance Administrative Manager

 $\infty \mathcal{A}$

Septimiu Apahidean, EMC/Lab Manager

web Kendall

Chuck Kendall, EMC/Lab Manager

TEST PERSONNEL:

Eddie Wong, EMC Engineer

Dustin Oaks, EMC Engineer/ Evaluation Engineer

Randy Clark, EMC Engineer



EQUIPMENT UNDER TEST (EUT) DESCRIPTION

The EUT tested by CKC Laboratories was representative of a production unit. CDMA Data Modem with DT2000-Dual.

EQUIPMENT UNDER TEST

CDMA Wireless Data Modem

Manuf:AnyData.net IncorporatedModel:EMIII-DualSerial:NAFCC ID:PM4 (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 $+15^{\circ}$ C and $+35^{\circ}$ C. The relative humidity was between 20% and 75%.



2.1033(c)(3) USER'S MANUAL

The necessary information is contained in a separate document.

2.1033 (c)(4) TYPE OF EMISSIONS

1M25F9W

2.1033(c)(5) FREQUENCY RANGE

Part 22: CDMA: TX 824-04 – 848.97 MHz, RX 869.04 – 893.97 MHz Part 24: PSC: TX 1851.25 – 1908.75 MHz, RX 1931.25 – 1988.75 MHz

2.1033(c)(6) OPERATING POWER

Part 22: 0.490 Watts Part 24: 0.4324 Watts

2.1033(c)(7) MAXIMUM POWER RATING

Part 22: 7 Watts ERP Part 24: 2 Watts EIRP

2.1033(c)(8) DC VOLTAGES

6-12V DC, 1A

2.1033(c)(9) TUNE-UP PROCEDURE

Output power is controlled by base station automatically.

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)/2.1046/22.913/24.232(b) - RF POWER OUTPUT

FCC 22.913 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 power level at the dipole antenna feed point is then measured with a spectrum analyzer, recorded and corrected for preamp and cable insertion losses.

RWB=VBW=100kHz

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

The EUT satisfies the above requirement by demonstrating the measured EIRP peak power is below the 7 Watts ERP peak power limit.

Result

Frequency (MHz)	Sig Gen Setting (dBm)	Inserstion Losses	Power delivered to substitution antenna	-
824.04	-14.7	41.6	26.9	0.490
836.52	-15.5	41.6	26.1	0.407
848.97	-15.3	41.6	26.3	0.427

EIRP = 1.64 x ERP.



FCC 22.913 Carrier Output Power to Antenna

Conducted measurement performed in accordance with 2.1046(a).

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

Freq in MHz	Power	Power
	dBm	Watts
824.07	25.5	0.355
836.54	25.5	0.355
848.97	25.5	0.355

FCC 24.232 (b) Effective Isotropic Radiated Power

"Mobile/portable stations are limited to 2 Watts EIRP peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications".

The EUT satisfies the above requirement by demonstrating the measured EIRP peak power is below the 2 Watts EIRP peak power limit.

Test performed with antenna substitution method in accordance with TIA/EIA 603 par 2.2.17.

Peak field strength at transmitting frequency of the EUT was measured with a spectrum analyzer. The EUT is then replaced by a substituting antenna. A signal generator feed transmits power to the substituting antenna. The power level is adjusted to produce the same field strength level generated by the EUT.

The power level at the antenna feed point is measured with a spectrum analyzer and recorded as ERP after applicable conversion. RWB=VBW= 3MHz

Freq in MHz	Sig Gen Level	Sig Gen Level	ERP	EIRP
	dBµV/M	V/m	Watts	Watts
1,851.25	130.1	2.1989	0.2047	0.3356
1,880.00	130.8	3.4674	0.2405	0.3943
1,908.75	131.2	3.6308	0.2637	0.4324

Calculation: Data Conversion: dBuV to V

 $V = 1 \times 10^{-6} \times 10^{-\frac{dBuV}{20}}$ Power = V² / R = V² / 50 EIRP = 1.64 x ERP.



Test Equipment 22/16 Entective Auduleu Fower Emile. 01115						
Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Spectrum Analyzer	01865	HP	8566B	2532A02509	092801	092802
Signal Generator	02351	Marconi	2022D	119158/054	050901	050902
¹ / ₄ " Heliax Coaxial	NA	Andrew	LDF1-50	Cable#18 (70 ft)	091101	091102
Cable						
Dipole Antenna X 2	NA	CKC	CKC	Set 4	110901	110902
Antenna cable (from	NA	Andrew	FSJ1-50A	Cable#13	07/17/01	07/17/02
bulkhead to antenna,						
high frequency						
hardline) (25ft)						
RF Amplifier	2160	AR	10S1G4A	24375	092701	092702

Test Equipment 22.913 Effective Radiated Power Limit: OATS

Test Equipment 22.913 Carrier Power to Antenna

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Power Meter	02082	HP	435B	2445A1881	082101	082102

Test Equipment 24.232 Effective Isotropic Radiated Power: OATS

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Spectrum Analyzer	01865	HP	8566B	2532A02509	092801	092802
Signal Doubler	02090	Miteq	MX2J0060	626883	NA	NA
RF Amplifier	2160	AR	10S1G4A	24375	092701	092702
Signal Generator	02351	Marconi	2022D	119158/054	050901	050902
Horn Antenna	0849	EMCO	3115	6246	091201	091202
Horn Antenna	01646	Emco	3115	9603-4683	031902	031903
¹ /4" Heliax Coaxial	NA	Andrew	LDF1-50	Cable#18 (70	091101	091102
Cable				ft)		
Antenna cable (from	NA	Andrew	FSJ1-50A	Cable#13	07/17/01	07/17/02
bulkhead to antenna,						
high frequency						
hardline) (25ft)						

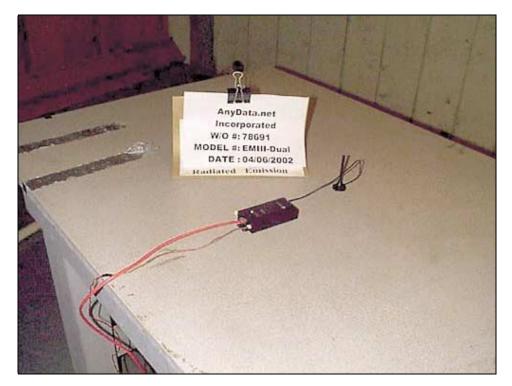


Carrier Output Power Test Setup



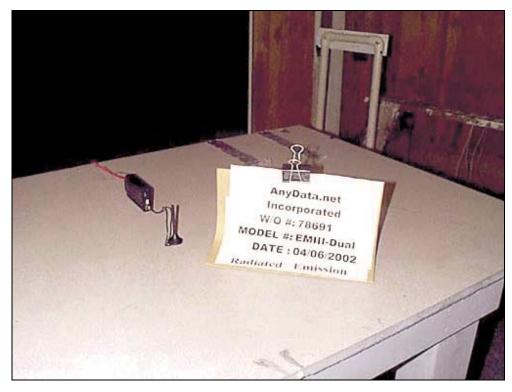


OATS Test Setup - Front View

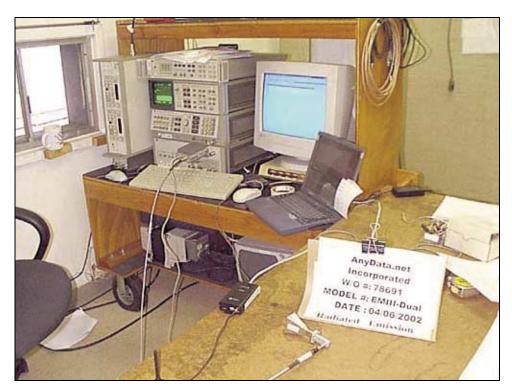


OATS Test Setup - Back View





OATS Test Setup - Side View



Horn Antenna Test Setup



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

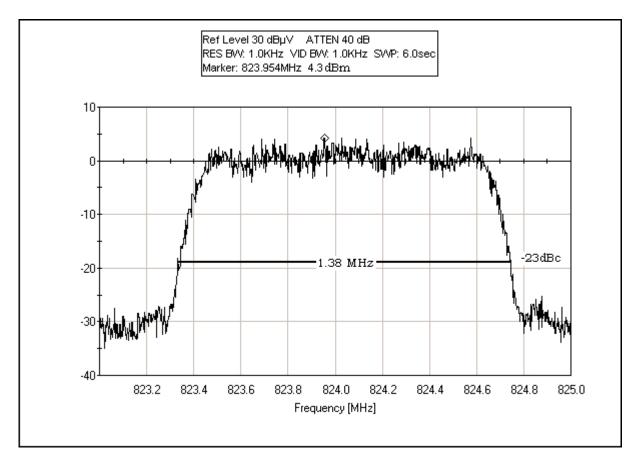
Not applicable to this unit.

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

Not applicable to this unit.

2.1033(c)(14)/2.1049(i)- OCCUPIED BANDWIDTH

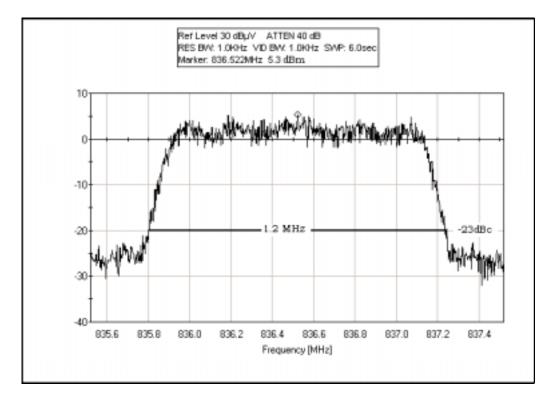
OCCUPIED BANDWIDTH - 824 MHz



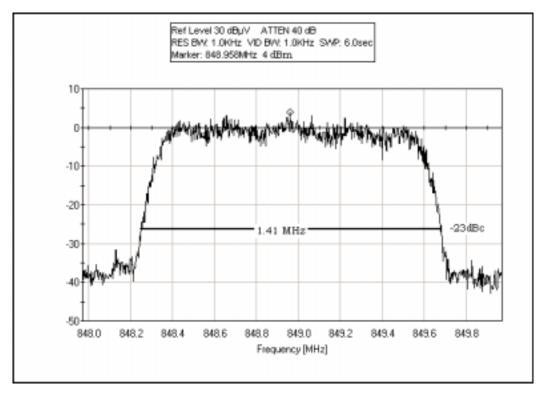
Page 12 of 81 Report No.: FC02-038



OCCUPIED BANDWIDTH - 836 MHz

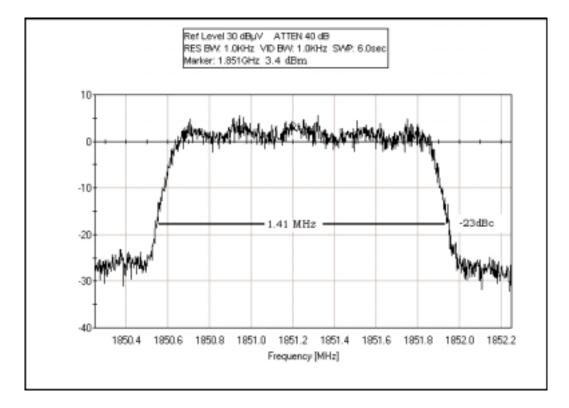




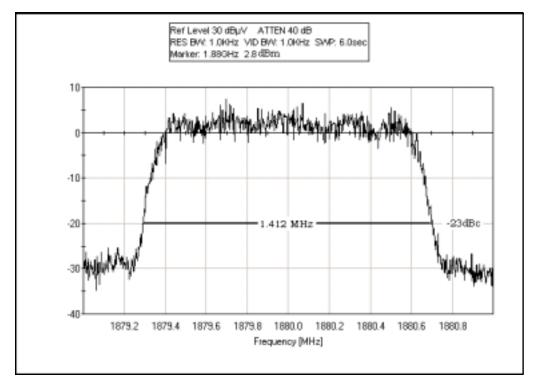




OCCUPIED BANDWIDTH - 1851 MHz

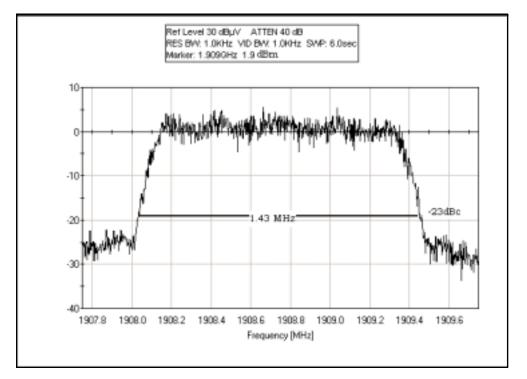


OCCUPIED BANDWIDTH - 1880 MHz

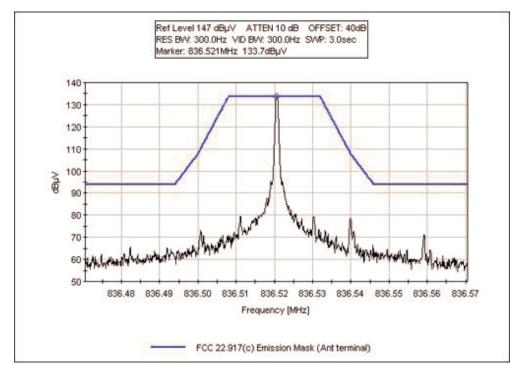




OCCUPIED BANDWIDTH - 1908 MHz



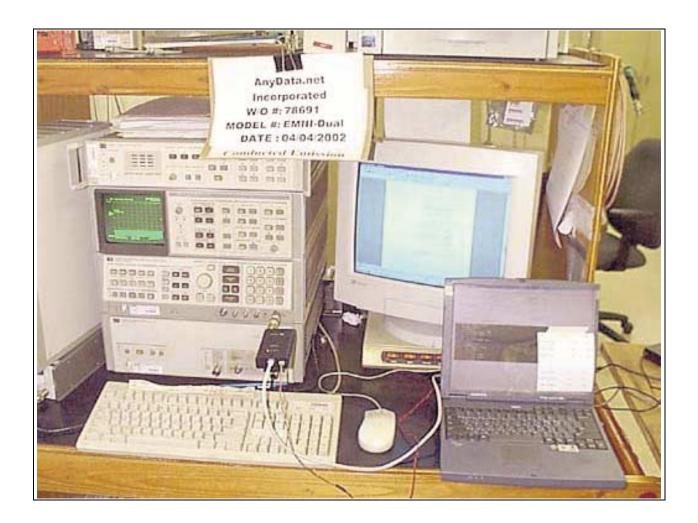
22.917(c) EMISSIONS MASK



Emissions Mask



Test Equipment 2.1049 Occupied bandwidth:		Antenna terr	ninal			
Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Spectrum Analyzer	01865	HP	8566B	2532A02509	092801	092802



Direct Connect Test Setup

Page 16 of 81 Report No.: FC02-038



2.1033(c)(14)/2.1051/22.917(e)/24.238 - SPURIOUS EMISSIONS AT ANTENNA TERMINAL

Limit line for Spurious Emission

Required Attenuation	=	43+10 Log P
Limit line (dBuV)	=	V_{dBuv} - Attenuation
V_{dBuV}	=	$20 \text{ Log } \frac{\text{V}}{1 \text{ x } 10^{-6}}$
	=	$20 \left(\text{Log V} - \text{Log 1 x } 10^{-6} \right)$
	=	$20 \text{ Log V} - 20 \text{ Log1 x } 10^{-6}$
	=	20 Log V - 20 (-6)
	=	20 Log V + 120
Attenuation	= = = =	43 + 10 Log P $43 + 10 \text{ Log } \frac{\text{V}^2}{\text{R}}$ $43 + 10 (\text{Log } \text{V}^2 - \text{Log } \text{R})$ 43 + 10 (2 Log V - Log R) 43 + 20 Log V - 10 Log R
Limit line		$\begin{array}{l} V_{dBuv} \ \ - \ Attenuation \\ 20 \ Log \ V + 120 - (43 + 20 \ Log \ V - 10 \ Log \ R) \\ 20 \ Log \ V + 120 - 43 - 20 \ Log \ V + 10 \ Log \ R \\ 20 \ Log \ V + 120 - 43 - 20 \ Log \ V + 10 \ Log \ R \\ 120 - 43 + 10 \ Log \ 50 \qquad Note : R = 50 \ \Omega \\ 120 - 43 + 16.897 \\ 94 \ dBuV \qquad at any power level \end{array}$



Test Location:	CKC Laboratories, Inc. •110 N. Olinda Place	• Brea, CA 92823 • (714) 993-6112	
Customer: Specification:	AnyData.net Incorporated. FCC 22.917(e) Out of Band (Antenna ter	m)	
Work Order #:	78691	Date: 04/04/2002	
Test Type:	Conducted Emissions	Time: 12:23:02	
Equipment:	Dual Data Modem	Sequence#: 1	
Manufacturer:	AnyData.net Incorporated	Tested By: Eddie Wong	
Model:	EMIII-Dual	12VDC	
S/N:	NA		

Dual Data Modem* AnyData.net Incorporated EMIII-Dual NA	Function	Manufacturer	Model #	S/N	
	Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA	

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 on antenna terminal Limit = Required attenuation = 43+10 Log P = 94 dBuV. TX Frequency = 824.04 MHz. Range of measurement: 9 kHz - 9 GHz. RBW=VBW= 300 Hz for emissions not more than 60 kHz removed from the carrier frequency, RBW=VBW= 30 kHz for emissions more than 60 kHz removed from the carrier frequency. 12 Vdc, 19°C, 66% relative humidity.

T1=1.5GHz High Pass Filter, A/N 01415	T1=1.5GHz	High Pass Filter.	A/N 01415
---------------------------------------	-----------	-------------------	-----------

Measu	rement Data:	Re	eading lis	ted by n	nargin.			Test Lead	d: Antenna	a terminal	
#	Freq MHz	Rdng dBµV	T1 dB	dB	dB	dB	Dist Table	Corr dBµV	Spec dBµV	Margin dB	Polar Ant
1	3296.250M	70.5	+0.6				+0.0	71.1	94.0	-22.9	Anten
2	2472.450M	66.5	+0.6				+0.0	67.1	94.0	-26.9	Anten
3	843.182M	63.3					+0.0	63.3	94.0	-30.7	Anten
4	844.276M	61.4					+0.0	61.4	94.0	-32.6	Anten
5	1647.500M	52.5	+0.6				+0.0	53.1	94.0	-40.9	Anten
6	7416.400M	49.2	+1.0				+0.0	50.2	94.0	-43.8	Anten
7	5768.350M	47.8	+0.6				+0.0	48.4	94.0	-45.6	Anten
8	4120.100M	46.9	+1.1				+0.0	48.0	94.0	-46.0	Anten
9	6592.300M	45.4	+0.2				+0.0	45.6	94.0	-48.4	Anten
10	4944.900M	44.7	+0.9				+0.0	45.6	94.0	-48.4	Anten



11 3817.800M	35.0	+0.8	+0.0	35.8	94.0	-58.2	Anten
12 5726.900M	34.7	+0.6	+0.0	35.3	94.0	-58.7	Anten
13 2863.350M	31.0	+0.7	+0.0	31.7	94.0	-62.3	Anten
14 7114.000M	27.4	+0.6	+0.0	28.0	94.0	-66.0	Anten
15 8239.900M	25.3	+1.0	+0.0	26.3	94.0	-67.7	Anten
16 6681.100M	25.6	+0.2	+0.0	25.8	94.0	-68.2	Anten
17 3162.800M	25.0	+0.7	+0.0	25.7	94.0	-68.3	Anten
18 1909.000M	24.0	+0.8	+0.0	24.8	94.0	-69.2	Anten
19 2994.200M	21.2	+1.0	+0.0	22.2	94.0	-71.8	Anten
20 7635.500M	20.9	+0.9	+0.0	21.8	94.0	-72.2	Anten
21 4772.200M	17.3	+0.8	+0.0	18.1	94.0	-75.9	Anten
22 2602.300M	16.5	+0.6	+0.0	17.1	94.0	-76.9	Anten
23 5464.700M	15.0	+0.8	+0.0	15.8	94.0	-78.2	Anten
24 4641.700M	13.8	+0.9	+0.0	14.7	94.0	-79.3	Anten



Test Location:	CKC Laboratories, Inc. •110 N. Olinda Pla	ce • Brea, CA 928	23 • (714) 993-6112
Customer: Specification:	AnyData.net Incorporated. FCC 22.917(e) Out of Band (Antenna te	erm)	
Work Order #:	78691	Date:	04/04/2002
Test Type:	Conducted Emissions	Time:	12:59:13
Equipment:	Dual Data Modem	Sequence#:	2
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		12VDC
S/N:	NA		

runcuon IVI	lanufacturer	Model #	S/N
Dual Data Modem* Ar	nyData.net Incorporated	EMIII-Dual	NA

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 on antenna terminal Limit = Required attenuation = 43+10 Log P = 94 dBuV. TX Frequency = 836.52 MHz Range of measurement: 9 kHz - 9 GHz RBW=VBW= 300 Hz for emission not more than 60 kHz removed from the carrier frequency, RBW=VBW= 30 kHz for emission more than 60 kHz removed from the carrier frequency. 12 Vdc, 19°C, 66% relative humidity

T1=1.5GHz High Pass Filter, A/N 01415

Measu	rement Data:	R	eading lis	ted by 1	margin.			Test Lead	d: Antenna	a terminal	
#	Freq	Rdng	T1				Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV	dBµV	dB	Ant
1	1673.000M	66.4	+0.0				+0.0	66.4	94.0	-27.6	Anten
2	2504.000M	57.0	+0.6				+0.0	57.6	94.0	-36.4	Anten
3	3330.000M	53.4	+0.7				+0.0	54.1	94.0	-39.9	Anten
4	280.000M	45.8	+0.0				+0.0	45.8	94.0	-48.2	Anten
5	5766.000M	37.2	+0.6				+0.0	37.8	94.0	-56.2	Anten
6	3862.000M	35.9	+0.8				+0.0	36.7	94.0	-57.3	Anten
7	5850.000M	35.9	+0.5				+0.0	36.4	94.0	-57.6	Anten
8	4996.000M	30.8	+0.9				+0.0	31.7	94.0	-62.3	Anten
9	2896.000M	30.8	+0.8				+0.0	31.6	94.0	-62.4	Anten



10 4170.000M	29.9	+1.3		+0.0	31.2	94.0	-62.8	Anten
11 7516.000M	29.9	+1.1		+0.0	31.0	94.0	-63.0	Anten
12 7712.000M	27.7	+0.8		+0.0	28.5	94.0	-65.5	Anten
13 8678.000M	25.3	+1.6		+0.0	26.9	94.0	-67.1	Anten
14 6676.000M	23.0	+0.2		+0.0	23.2	94.0	-70.8	Anten
15 2770.000M	20.5	+0.5		+0.0	21.0	94.0	-73.0	Anten
16 3078.000M	20.1	+0.8		+0.0	20.9	94.0	-73.1	Anten
17 2518.000M	20.2	+0.6		+0.0	20.8	94.0	-73.2	Anten



Test Location:	CKC Laboratories, Inc. •110 N. Olinda Place	• Brea, CA 928	23 • (714) 993-6112
Customer: Specification:	AnyData.net Incorporated. FCC 22.917(e) Out of Band (Antenna terr	n)	
Work Order #:	78691	Date:	04/04/2002
Test Type:	Conducted Emissions	Time:	13:15:58
Equipment:	Dual Data Modem	Sequence#:	3
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		12VDC
S/N:	NA		

runcuon IVI	lanufacturer	Model #	S/N
Dual Data Modem* Ar	nyData.net Incorporated	EMIII-Dual	NA

S/N

558791ANB00124

Support Devices:			
Function	Manufacturer	Model #	
Laptop	Samsung	Academy 680	

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 on antenna terminal Limit = Required attenuation = 43+10 Log P = 94 dBuV. TX Frequency = 848.97 MHz Range of measurement: 9 kHz - 9 GHz RBW=VBW= 300 Hz for emission not more than 60 kHz removed from the carrier frequency RBW=VBW= 30 kHz for emission more than 60 kHz removed from the carrier frequency. 12 Vdc, 19°C, 66% relative humidity

T1=1.5GHz High Pass Filter, A/N 01415

Measu	rement Data:	Re	eading lis	ted by n	nargin.			Test Lead	l: Antenna	a terminal	
#	Freq	Rdng	T1				Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV	dBµV	dB	Ant
1	1699.000M	68.1	+0.0				+0.0	68.1	94.0	-25.9	Anten
2	2539.000M	58.8	+0.6				+0.0	59.4	94.0	-34.6	Anten
3	3386.000M	56.6	+0.9				+0.0	57.5	94.0	-36.5	Anten
4	7628.000M	42.2	+0.9				+0.0	43.1	94.0	-50.9	Anten
5	3904.000M	36.0	+0.8				+0.0	36.8	94.0	-57.2	Anten
6	5871.000M	35.3	+0.5				+0.0	35.8	94.0	-58.2	Anten
7	5066.000M	34.2	+0.9				+0.0	35.1	94.0	-58.9	Anten
8	5927.000M	31.2	+0.5				+0.0	31.7	94.0	-62.3	Anten
9	8790.000M	26.5	+1.6				+0.0	28.1	94.0	-65.9	Anten
10	2924.000M	27.0	+0.9				+0.0	27.9	94.0	-66.1	Anten



11 6774.000M	25.9	+0.3	+0.0	26.2	94.0	-67.8	Anten
12 3064.000M	25.0	+0.9	+0.0	25.9	94.0	-68.1	Anten
13 7810.000M	23.0	+0.7	+0.0	23.7	94.0	-70.3	Anten
14 8468.000M	21.0	+1.4	+0.0	22.4	94.0	-71.6	Anten



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

Customer: Specification:	AnyData.net Incorporated. FCC 24.238 Spur Ant term		
Work Order #:	78691	Date:	04/04/2002
Test Type:	Conducted Emissions	Time:	14:07:45
Equipment:	Dual Data Modem	Sequence#:	4
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		12VDC
S/N:	NA		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA

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 on antenna terminal Limit = Required attenuation = 43+10 Log P = 94 dBuV. TX Frequency = 1851.25 MHz. Range of measurement: 9 kHz - 20 GHz RBW=VBW= 1 MHz. 12 Vdc, 19°C, 66% relative humidity.

Transducer Legend:

T1=3.5GHz High Pass Filter A/N 01416

Measu	rement Data:	Re	eading lis	ted by r	nargin.			Test Lead	d: Antenna	terminal	
#	Freq	Rdng	T1				Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV	dBµV	dB	Ant
1	3670.000M	87.2	+1.9				+0.0	89.1	94.0	-4.9	Anten
2	968.000M	78.8	+0.0				+0.0	78.8	94.0	-15.2	Anten
3	7360.000M	73.2	+2.9				+0.0	76.1	94.0	-17.9	Anten
4	40.000M	71.2	+0.0				+0.0	71.2	94.0	-22.8	Anten
5	672.000M	68.9	+0.0				+0.0	68.9	94.0	-25.1	Anten
6	9240.001M	65.1	+3.1				+0.0	68.2	94.0	-25.8	Anten
7	5530.000M	63.2	+4.1				+0.0	67.3	94.0	-26.7	Anten
8	3150.000M	51.4	+12.2				+0.0	63.6	94.0	-30.4	Anten
9	3190.000M	51.0	+9.9				+0.0	60.9	94.0	-33.1	Anten
10	14780.000M	56.0	+2.8				+0.0	58.8	94.0	-35.2	Anten



11 16620.000M	56.8	+1.5		+0.0	58.3	94.0	-35.7	Anten
12 12940.000M	54.1	+3.3		+0.0	57.4	94.0	-36.6	Anten
13 4200.000M	46.8	+3.5		+0.0	50.3	94.0	-43.7	Anten
14 18450.000M	48.2	+0.8		+0.0	49.0	94.0	-45.0	Anten
15 3550.000M	45.0	+2.0		+0.0	47.0	94.0	-47.0	Anten
16 11070.000M	43.3	+1.4		+0.0	44.7	94.0	-49.3	Anten



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

Customer: Specification:	AnyData.net Incorporated. FCC 24.238 Spur Ant term		
Work Order #:	78691	Date:	04/04/2002
Test Type:	Conducted Emissions	Time:	14:32:24
Equipment:	Dual Data Modem	Sequence#:	5
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		12VDC
S/N:	NA		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA

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 on antenna terminal Limit = Required attenuation = 43+10 Log P = 94 dBuV. TX Frequency = 1880.00 MHz. Range of measurement: 9 kHz - 20 GHz RBW=VBW= 1 MHz. 12 Vdc, 19° C, 66% relative humidity.

Transducer Legend:

T1=3.5GHz High Pass Filter A/N 01416

Measu	rement Data:	R	eading lis	ted by 1	margin.			Test Lead	d: Antenna	a terminal	
#	Freq	Rdng	T1				Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV	dBµV	dB	Ant
1	3760.000M	88.3	+2.1				+0.0	90.4	94.0	-3.6	Anten
2	7510.000M	73.7	+2.7				+0.0	76.4	94.0	-17.6	Anten
3	68.000M	74.3	+0.0				+0.0	74.3	94.0	-19.7	Anten
4	15000.000M	69.5	+2.7				+0.0	72.2	94.0	-21.8	Anten
5	5600.000M	60.7	+4.0				+0.0	64.7	94.0	-29.3	Anten
6	5640.000M	60.6	+3.9				+0.0	64.5	94.0	-29.5	Anten
7	9340.000M	59.5	+2.7				+0.0	62.2	94.0	-31.8	Anten
8	11220.000M	60.2	+1.6				+0.0	61.8	94.0	-32.2	Anten
9	16870.000M	58.6	+1.4				+0.0	60.0	94.0	-34.0	Anten



10 13120.000M	54.7	+3.4	+	-0.0	58.1	94.0	-35.9	Anten
11 9380.000M	55.6	+2.5	+	-0.0	58.1	94.0	-35.9	Anten
12 3220.000M	47.4	+8.5	+	-0.0	55.9	94.0	-38.1	Anten
13 13160.000M	51.9	+3.4	+	-0.0	55.3	94.0	-38.7	Anten
14 18780.000M	52.3	+1.0	+	-0.0	53.3	94.0	-40.7	Anten
15 15030.000M	45.2	+2.7	+	-0.0	47.9	94.0	-46.1	Anten
16 4270.000M	44.0	+3.1	+	-0.0	47.1	94.0	-46.9	Anten



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

Customer: Specification:	AnyData.net Incorporated. FCC 24.238 Spur Ant term		
Work Order #:	78691	Date:	04/04/2002
Test Type:	Conducted Emissions	Time:	14:46:29
Equipment:	Dual Data Modem	Sequence#:	6
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		12VDC
S/N:	NA		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA

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 on antenna terminal Limit = Required attenuation = 43+10 Log P = 94 dBuV. TX Frequency = 1908.75 MHz. Range of measurement: 9 kHz - 20 GHz RBW=VBW= 1 MHz. 12 Vdc, 19° C, 66% relative humidity.

Transducer Legend:

T1=3.5GHz High Pass Filter A/N 01416

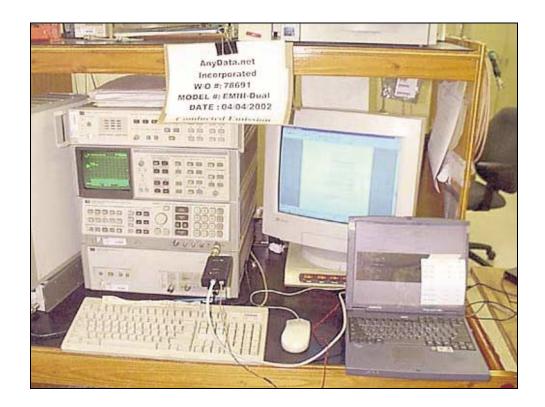
Measu	rement Data:	R	eading lis	ted by 1	margin.			Test Lea	d: Antenna	a terminal	
#	Freq	Rdng	T1				Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV	dBµV	dB	Ant
1	3817.340M	88.7	+2.2				+0.0	90.9	94.0	-3.1	Anten
2	7620.000M QP	73.3	+2.2				+0.0	75.5	94.0	-18.5	Anten
3	96.000M	73.5	+0.0				+0.0	73.5	94.0	-20.5	Anten
4	5710.000M QP	64.4	+3.8				+0.0	68.2	94.0	-25.8	Anten
5	11400.000M QP	61.2	+1.8				+0.0	63.0	94.0	-31.0	Anten
6	9490.000M QP	60.7	+2.0				+0.0	62.7	94.0	-31.3	Anten
7	15250.000M QP	59.5	+2.4				+0.0	61.9	94.0	-32.1	Anten
8	17120.000M QP	56.9	+1.3				+0.0	58.2	94.0	-35.8	Anten
9	3300.000M QP	51.6	+5.2				+0.0	56.8	94.0	-37.2	Anten



10 9520.000M OP	52.7	+2.0	+	0.0	54.7	94.0	-39.3	Anten
11 19060.000M OP	52.3	+1.2	 +	0.0	53.5	94.0	-40.5	Anten
12 4300.000M OP	49.6	+3.0	+	0.0	52.6	94.0	-41.4	Anten
13 8839.999M QP	44.5	+3.7	+	0.0	48.2	94.0	-45.8	Anten
14 13340.000M QP	43.0	+3.4	+	0.0	46.4	94.0	-47.6	Anten
15 18630.000M QP	42.5	+0.9	+	0.0	43.4	94.0	-50.6	Anten

Test Equipment 22.917(e)/24.238(a)	Emission Limits:	Antenna terminal
------------------------------------	-------------------------	------------------

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
9 kHz- 20GHz						
Spectrum Analyzer	01865	HP	8566B	2532A02509	092801	092802
1.5 GHz HPF	01415	HP	8400-80037	3643A00026	030502	030503



Direct Connect Test Setup



2.1033(c)(14)/2.1053/22.917(e)/24.238 - FIELD STRENGTH OF SPURIOUS RADIATION

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

Customer: Specification:	AnyData.net Incorporated. FCC 22.917(e) Out of Band (RF)		
Work Order #:	78691	Date:	04/06/2002
Test Type:	Radiated Scan	Time:	09:10:03
Equipment:	Dual Data Modem	Sequence#:	2
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		
S/N:	NA		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA
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 on antenna terminal Limit = Required attenuation = 43+10 Log P = 94 dBuV. TX Frequency = 824.04 MHz. Range of measurement: 9 kHz - 9 GHz RBW=VBW= 300 Hz for emission not more than 60 kHz removed from the carrier frequency. RBW=VBW= 30 kHz for emission more than 60 kHz removed from the carrier frequency. 12 Vdc, 19°C , 66% relative humidity. Note: Enhanced grounding integrity by bonding the CDMA modem to the ground plane of the PCB with copper tape.

Transducer Legend:	
T1=Log 331 092401	T2=Cable #10 071601
T3=Cable #15 120602	T4=Preamp 8447D 090501
T5=Horn Antenna sn6246	T6=Heliax #18 70' 11Sept2001
T7=HP3017A sn3123A00281 11-Sept-01	T8=1.5GHz High Pass Filter, A/N 01415

Measu	rement Data:	Re	eading lis	ted by ma	argin.		Те	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7	T8					
	MHz	dBµV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	824.048M	110.7	+21.9	+0.6	+5.7	-27.6	+0.0	111.3	111.3	+0.0	Vert
			+0.0	+0.0	+0.0	+0.0			Fundament	tal	
2	824.040M	109.4	+21.9	+0.6	+5.7	-27.6	+0.0	110.0	111.3	-1.3	Horiz
			+0.0	+0.0	+0.0	+0.0			Fundament	tal	
3	1650.000M	59.5	+0.0	+0.0	+0.0	+0.0	+0.0	50.2	94.0	-43.8	Vert
			+25.1	+3.6	-38.6	+0.6					
4	1648.000M	58.3	+0.0	+0.0	+0.0	+0.0	+0.0	48.9	94.0	-45.1	Horiz
			+25.1	+3.5	-38.6	+0.6					
5	954.421M	45.2	+23.7	+0.6	+6.3	-27.7	+0.0	48.1	94.0	-45.9	Vert
			+0.0	+0.0	+0.0	+0.0					



(042 1 (0) 1	47.0	. 22.2	.0.0	. 5 0	27.7	.0.0	47.0	04.0	4 < 1	X <i>T</i> 4
6	843.160M	47.0	+22.2	+0.6	+5.8	-27.7	+0.0	47.9	94.0	-46.1	Vert
			+0.0	+0.0	+0.0	+0.0					
7	843.260M	46.0	+22.2	+0.6	+5.8	-27.7	+0.0	46.9	94.0	-47.1	Horiz
			+0.0	+0.0	+0.0	+0.0					
8	954.427M	43.4	+23.7	+0.6	+6.3	-27.7	+0.0	46.3	94.0	-47.7	Horiz
			+0.0	+0.0	+0.0	+0.0					
9	3297.000M	45.1	+0.0	+0.0	+0.0	+0.0	+0.0	44.5	94.0	-49.5	Vert
			+30.6	+5.7	-37.5	+0.6					
10	2472.000M	49.0	+0.0	+0.0	+0.0	+0.0	+0.0	42.8	94.0	-51.2	Vert
			+27.7	+4.2	-38.7	+0.6					
11	3297.000M	35.5	+0.0	+0.0	+0.0	+0.0	+0.0	34.9	94.0	-59.1	Horiz
			+30.6	+5.7	-37.5	+0.6					



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

Customer: Specification:	AnyData.net Incorporated. FCC 22.917(e) Out of Band (RF)		
Work Order #:	78691	Date:	04/06/2002
Test Type:	Maximized Emissions	Time:	09:03:24
Equipment:	Dual Data Modem	Sequence#:	3
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		
S/N:	NA		

Function	Manufacturer	Model #	S/N
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA

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 on antenna terminal Limit = Required attenuation = 43+10 Log P = 94 dBuV. TX Frequency = 836.52 MHz. Range of measurement: 9 kHz - 9 GHz RBW=VBW= 300 Hz for emission not more than 60 kHz removed from the carrier frequency. RBW=VBW= 30 kHz for emission more than 60 kHz removed from the carrier frequency. 12 Vdc, 19°C , 66% relative humidity. Note: Enhanced grounding integrity by bonding the CDMA modem to the ground plane of the PCB with copper tape.

T1=Log 331 092401	T2=Cable #10 071601
T3=Cable #15 120602	T4=Preamp 8447D 090501
T5=Horn Antenna sn6246	T6=Heliax #18 70' 11Sept2001
T7=HP3017A sn3123A00281 11-Sept-01	T8=1.5GHz High Pass Filter, A/N 01415

Measu	rement Data:	Re	eading lis	ted by ma	argin.		Те	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7	T8					
	MHz	dBµV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	836.520M	111.6	+22.1	+0.6	+5.8	-27.7	+0.0	112.4	112.4	+0.0	Vert
			+0.0	+0.0	+0.0	+0.0			Fundament	tal	
2	836.520M	107.1	+22.1	+0.6	+5.8	-27.7	+0.0	107.9	112.4	-4.5	Vert
			+0.0	+0.0	+0.0	+0.0			Fundament	tal	
3	817.360M	52.1	+21.8	+0.6	+5.7	-27.6	+0.0	52.6	94.0	-41.4	Vert
			+0.0	+0.0	+0.0	+0.0					
4	3347.000M	48.8	+0.0	+0.0	+0.0	+0.0	+0.0	48.7	94.0	-45.3	Vert
			+30.8	+5.8	-37.5	+0.8					
5	1673.060M	55.3	+0.0	+0.0	+0.0	+0.0	+0.0	46.1	94.0	-47.9	Vert
			+25.2	+3.6	-38.6	+0.6					
6	966.905M	42.7	+23.9	+0.6	+6.5	-27.8	+0.0	45.9	94.0	-48.1	Horiz
			+0.0	+0.0	+0.0	+0.0					
7	1674.000M	54.3	+0.0	+0.0	+0.0	+0.0	+0.0	45.1	94.0	-48.9	Horiz
			+25.2	+3.6	-38.6	+0.6					



8	817.390M	42.6	+21.8	+0.6	+5.7	-27.6	+0.0	43.1	94.0	-50.9	Horiz
			+0.0	+0.0	+0.0	+0.0					
9	966.907M	39.4	+23.9	+0.6	+6.5	-27.8	+0.0	42.6	94.0	-51.4	Vert
			+0.0	+0.0	+0.0	+0.0					
10	2508.500M	48.9	+0.0	+0.0	+0.0	+0.0	+0.0	42.5	94.0	-51.5	Vert
			+27.8	+4.1	-38.9	+0.6					
11	3347.000M	38.3	+0.0	+0.0	+0.0	+0.0	+0.0	38.2	94.0	-55.8	Horiz
			+30.8	+5.8	-37.5	+0.8					
12	2510.000M	43.5	+0.0	+0.0	+0.0	+0.0	+0.0	37.1	94.0	-56.9	Horiz
			+27.8	+4.1	-38.9	+0.6					
13	1531.000M	35.7	+0.0	+0.0	+0.0	+0.0	+0.0	25.8	94.0	-68.2	Horiz
			+24.6	+3.4	-38.8	+0.9					



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

Customer: Specification:	AnyData.net Incorporated. FCC 22.917(e) Out of Band (RF)		
Work Order #:	78691	Date:	04/06/2002
Test Type:	Maximized Emissions	Time:	08:59:28
Equipment:	Dual Data Modem	Sequence#:	4
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		
S/N:	NA		

Function	Manufacturer	Model #	S/N
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA

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 on antenna terminal Limit = Required attenuation = 43+10 Log P = 94 dBuV. TX Frequency = 848.97 MHz. Range of measurement: 9 kHz - 9 GHz RBW=VBW= 300 Hz for emission not more than 60 kHz removed from the carrier frequency. RBW=VBW= 30 kHz for emission more than 60 kHz removed from the carrier frequency. 12 Vdc, 19°C , 66% relative humidity. Note: Enhanced grounding integrity by bonding the CDMA modem to the ground plane of the PCB with copper tape.

T1=Log 331 092401	T2=Cable #10 071601
T3=Cable #15 120602	T4=Preamp 8447D 090501
T5=Horn Antenna sn6246	T6=Heliax #18 70' 11Sept2001
T7=HP3017A sn3123A00281 11-Sept-01	T8=1.5GHz High Pass Filter, A/N 01415

<i>Measurement Data:</i> Reading listed by margin.					argin.	Test Distance: 3 Meters					
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7	T8					
	MHz	dBµV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	848.960M	108.6	+22.3	+0.6	+5.8	-27.7	+0.0	109.6	109.6	+0.0	Horiz
			+0.0	+0.0	+0.0	+0.0			Fundament	tal	
2	848.962M	108.6	+22.3	+0.6	+5.8	-27.7	+0.0	109.6	109.6	+0.0	Vert
			+0.0	+0.0	+0.0	+0.0			Fundament	tal	
3	1698.000M	61.6	+0.0	+0.0	+0.0	+0.0	+0.0	52.4	94.0	-41.6	Vert
			+25.3	+3.6	-38.6	+0.5					
4	829.807M	50.7	+22.0	+0.6	+5.8	-27.7	+0.0	51.4	94.0	-42.6	Horiz
			+0.0	+0.0	+0.0	+0.0					
5	979.344M	46.8	+24.0	+0.6	+6.7	-27.8	+0.0	50.3	94.0	-43.7	Horiz
			+0.0	+0.0	+0.0	+0.0					
6	829.950M	48.5	+22.0	+0.6	+5.8	-27.7	+0.0	49.2	94.0	-44.8	Vert
			+0.0	+0.0	+0.0	+0.0					
7	979.380M	40.7	+24.0	+0.6	+6.7	-27.8	+0.0	44.2	94.0	-49.8	Vert
			+0.0	+0.0	+0.0	+0.0					



8 1697.500M	53.3	+0.0	+0.0	+0.0	+0.0	+0.0	44.1	94.0	-49.9	Horiz
		+25.3	+3.6	-38.6	+0.5					
9 2547.000M	44.2	+0.0	+0.0	+0.0	+0.0	+0.0	38.2	94.0	-55.8	Vert
		+28.0	+4.2	-38.8	+0.6					
10 3397.000M	36.7	+0.0	+0.0	+0.0	+0.0	+0.0	37.0	94.0	-57.0	Vert
		+30.9	+5.9	-37.4	+0.9					
11 2547.000M	40.7	+0.0	+0.0	+0.0	+0.0	+0.0	34.7	94.0	-59.3	Horiz
		+28.0	+4.2	-38.8	+0.6					
12 3397.000M	31.0	+0.0	+0.0	+0.0	+0.0	+0.0	31.3	94.0	-62.7	Horiz
		+30.9	+5.9	-37.4	+0.9					



Test Location:	CKC Laboratories, Inc. •110 N. Olind	a Place • Brea, CA 928	23 • (714) 993-6112
Customer:	AnyData.net Incorporated.		
Specification:	FCC 24.238 RF Spur		
Work Order #:	78691	Date:	04/06/2002
Test Type:	Maximized Emissions	Time:	09:28:50
Equipment:	Dual Data Modem	Sequence#:	5
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		C
S/N:	NA		
Equipment Und	<i>ler Test</i> (* = EUT):		
Function	Manufacturer	Model #	S/N
Dual Data Moder	m* AnyData.net Incorporated	EMIII-Dual	NA
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 on antenna terminal Limit = Required attenuation = 43+10 Log P = 94 dBuV. TX Frequency = 1851.25 MHz. Range of measurement: 9 kHz - 20 GHz RBW=VBW=1 MHz. 12 Vdc, 19° C, 66% relative humidity.

Transducer Legend:	
T1=Horn Antenna sn6246	T2=Heliax #18 70' 11Sept2001
T3=HP3017A sn3123A00281 11-Sept-01	T4=3.5GHz High Pass Filter A/N 01416

Meas	urement Data:	Re	eading lis	ted by ma	argin.		Те	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	1851.530M	126.5	+25.9	+3.6	-38.4	+0.0	+0.0	117.6	117.6	+0.0	Vert
									Fundament	tal	
2	2 1851.280M	121.1	+25.9	+3.6	-38.4	+0.0	+0.0	112.2	117.6	-5.4	Horiz
									Fundament	tal	
3	3703.000M	63.7	+31.4	+6.2	-37.5	+2.0	+0.0	65.8	94.0	-28.2	Horiz
4	7405.000M	42.9	+36.1	+8.1	-37.9	+2.8	+0.0	52.0	94.0	-42.0	Horiz
5	5554.000M	43.1	+33.7	+7.1	-36.7	+4.0	+0.0	51.2	94.0	-42.8	Horiz



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

Customer: Specification:	AnyData.net Incorporated. FCC 24.238 RF Spur		
Work Order #:	78691	Date:	04/06/2002
Test Type:	Radiated Scan	Time:	09:38:24
Equipment:	Dual Data Modem	Sequence#:	6
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		
S/N:	NA		

Function	Manufacturer	Model #	S/N
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA

Support Devices:

Support Derices.			
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 on antenna terminal Limit = Required attenuation = 43+10 Log P = 94 dBuV. TX Frequency = 1880.00 MHz. Range of measurement: 9 kHz - 20 GHz RBW=VBW= 1 MHz. 12 Vdc, 19° C, 66% relative humidity. Note: Enhanced grounding integrity by bonding the CDMA modem to the ground plane of the PCB with copper tape.

T1=Horn Antenna sn6246	T2=Heliax #18 70' 11Sept2001
T3=HP3017A sn3123A00281 11-Sept-01	T4=3.5GHz High Pass Filter A/N 01416

Me	asu	rement Data:	Re	eading lis	ted by ma	argin.		Те	est Distance	e: 3 Meters		
#		Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
		MHz	dBµV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
	1	1880.280M	127.4	+26.0	+3.6	-38.3	+0.0	+0.0	118.7	118.7	+0.0	Vert
										Fundament	tal	
	2	1880.280M	124.0	+26.0	+3.6	-38.3	+0.0	+0.0	115.3	118.7	-3.4	Horiz
										Fundament	tal	
	3	3759.440M	61.1	+31.5	+6.1	-37.5	+2.1	+0.0	63.3	94.0	-30.7	Horiz



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

Customer: Specification:	AnyData.net Incorporated. FCC 24.238 RF Spur		
Work Order #:	78691	Date:	04/06/2002
Test Type:	Maximized Emissions	Time:	09:49:52
Equipment:	Dual Data Modem	Sequence#:	6
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		
S/N:	NA		

Function	Manufacturer	Model #	S/N
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA

Support Devices:

Support Dericesi			
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 on antenna terminal Limit = Required attenuation = 43+10 Log P = 94 dBuV. TX Frequency = 1908.75 MHz. Range of measurement: 9 kHz - 20 GHz RBW=VBW= 1 MHz. 12 Vdc, 19°C, 66% relative humidity. Note: Enhanced grounding integrity by bonding the CDMA modem to the ground plane of the PCB with copper tape.

T1=Horn Antenna sn6246	T2=Heliax #18 70' 11Sept2001
T3=HP3017A sn3123A00281 11-Sept-01	T4=3.5GHz High Pass Filter A/N 01416

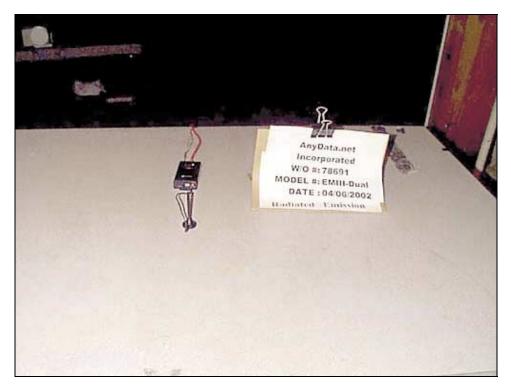
Meas	urement Data:	Re	eading lis	ted by ma	argin.		Те	est Distance	e: 3 Meters	6	
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	1908.550M	125.9	+26.1	+3.6	-38.3	+0.0	+0.0	117.3	117.3	+0.0	Vert
									Fundament	tal	
2	2 1908.550M	122.6	+26.1	+3.6	-38.3	+0.0	+0.0	114.0	117.3	-3.3	Horiz
									Fundament	tal	
3	3818.000M	66.7	+31.6	+6.1	-37.5	+2.2	+0.0	69.1	94.0	-24.9	Vert
4	3818.000M	60.7	+31.6	+6.1	-37.5	+2.2	+0.0	63.1	94.0	-30.9	Horiz
5	5 5725.000M	43.6	+33.7	+7.2	-36.9	+3.8	+0.0	51.4	94.0	-42.6	Vert
6	5 7634.000M	42.9	+36.1	+8.2	-38.0	+2.2	+0.0	51.4	94.0	-42.6	Vert



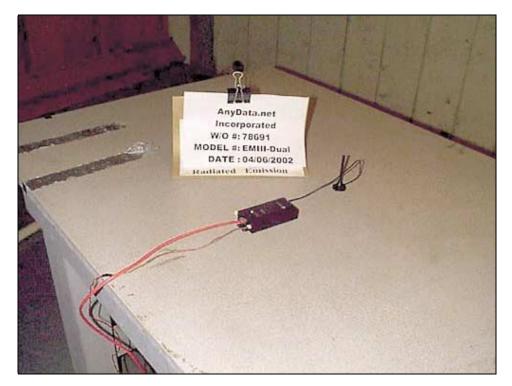
Test Equipment 22.9	17(e)/24.23	8(a) Emission Li	imit: OAT	rs	1	1
Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Active loop antenna	2014	Emco	6502	2014	073101	073102
Spectrum Analyzer	01865	HP	8566B	2532A02509	092801	092802
30MHz-1000MHz						
Spectrum Analyzer	01865	HP	8566B	2532A02509	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
1 GHz- 18 GHz						
Horn Antenna	0849	EMCO	3115	6246	091201	091202
Microwave Pre-amp	00786	HP	83017A	3123A00281	091201	091202
¹ /4" Heliax Coaxial Cable	NA	Andrew	LDF1-50	Cable#18 (70 ft)	091101	091102
Spectrum Analyzer	01865	HP	8566B	2532A02509	092801	092802
3.5 GHz HPF	01416	HP	84300- 800038	3643A00026	032502	032503
24.238 Testing Only:						
18GHz-20 GHz						
18-26 GHz Horn antenna	1413	BP	RA42-K-F- 4B-C	942126-003	070901	070902
Spectrum Analyzer	01865	HP	8566B	2532A02509	092801	092802
Pre amp	NA	HP	83051A	3331A00238	030502	030503
High Freq cable	NA	WL Gore	purple 65474	purple 65474	011402	011403

Test Faui nt 22 017(a)/24 238(a) Emission Limit. OATS



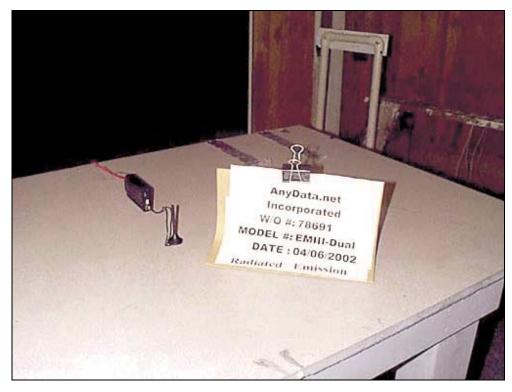


OATS Test Setup - Front View

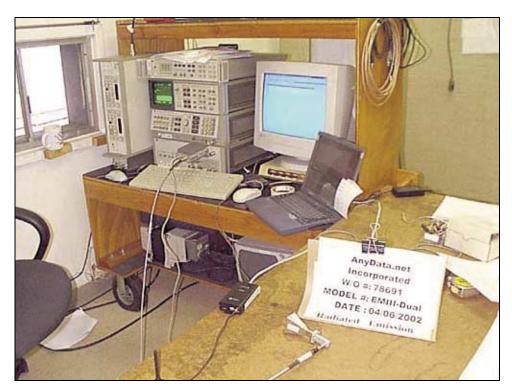


OATS Test Setup - Back View





OATS Test Setup - Side View



Horn Antenna Test Setup



2.1033(c)(14)/2.1055/22.355/24.235- FREQUENCY STABILITY

Frequency Stability

Customer:	Anydata
Date:	16-Apr-02
WO#:	78691

Test Engineer: Dustin Oaks

800 MHz Banc	k						
		Channel 1 (MHz)	Dev. (MHz)	Channel 2 (MHz)	Dev. (MHz)	Channel 3 (MHz)	Dev. (MHz)
Channel Frequ	ency:	824.04		836.52		848.97	
Temp (C) Vol	tage						
-30	12	824.04098	0.00098	836.52102	0.00102	848.97106	0.00106
-20	12	824.04100	0.00100	836.52100	0.00100	848.97091	0.00091
-10	12	824.04093	0.00093	836.52090	0.00090	848.97096	0.00096
0	12	824.04102	0.00102	836.52095	0.00095	848.97091	0.00091
10	12	824.04106	0.00106	836.52096	0.00096	848.97100	0.00100
20	10.2	824.04059	0.00059	836.52032	0.00032	848.97024	0.00024
20	12	824.04065	0.00065	836.52030	0.00030	848.97032	0.00032
20	13.8	824.04052	0.00052	836.52045	0.00045	848.97025	0.00025
30	12	824.04070	0.00070	836.52070	0.00070	848.97063	0.00063
40	12	824.04042	0.00042	836.52021	0.00021	848.97010	0.00010
50	12	824.04004	0.00004	836.51991	0.00009	848.97008	0.00008
Max Deviation	(MH7)		0.00106		0.00102		0.00106

Max Deviation (MHz)	0.00106	0.00102	0.00106
Max Deviation (PPM)	1.28635	1.21934	1.24857
LIMIT = 2.5PPM	PASS	PASS	PASS

		Channel 1 (MHz)	Dev. (MHz)	Channel 2 (MHz)	Dev. (MHz)	Channel 3 (MHz)	Dev. (MHz)
Channel Frequ	uency:	1851.25	. ,	1880	、 <i>,</i>	1908.75	. ,
Temp (C) Vo							
-30	12	1851.21	0.04	1879.93	0.07	1908.79	0.04
-20	12	1851.25	0	1879.98	0.02	1908.73	0.02
-10	12	1851.27	0.02	1879.97	0.03	1908.74	0.01
0	12	1851.26	0.01	1880.01	0.01	1908.79	0.04
10	12	1851.28	0.03	1879.99	0.01	1908.76	0.01
20	10.2	1851.24	0.01	1879.96	0.04	1908.77	0.02
20	12	1851.25	0	1880.03	0.03	1908.74	0.01
20	13.8	1851.30	0.05	1879.98	0.02	1908.73	0.02
30	12	1851.22	0.03	1880.02	0.02	1908.76	0.01
40	12	1851.22	0.03	1880.05	0.05	1908.77	0.02
50	12	1851.23	0.02	1880.01	0.01	1908.72	0.03
Max Deviatio	n (MHz)		0.05		0.07		0.04
	-		PASS		PASS		PASS



Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
QP Adapter	00478	HP	85650A	2811A01267	1/30/02	1/30/03
SA Display Section	00489	HP	8566B	2403A08241	1/30/02	1/30/03
Spectrum Analyzer, RF Section	00490	HP	8566B	2209A01404	1/30/02	1/30/03
Temperature	01879	Thermotron	S-1.2 MINI	11899	8/28/01	8/28/02
Chamber		Corp.	MAX			

Test Equipment 2.1033(c)(14)/2.1055/22.355/24.235- Frequency Stability



Temperature Testing



2.1091 - MAXIMUM PERMISSIBLE EXPOSURE CALCULATIONS

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:EMIII-DualFCC Identification:PM4 (pending)

Fundamental Operating Frequency:

824.04-848.97MHz, 1851.25 MHz-1908.75 MHz

Maximum Rated Output Power: Measured Maximum Output Power: 0.28Watts 0.48 watts (Antenna terminal, 836.52 MHz) 0.55 Watts (Antenna terminal, 1880.00 MHz)

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 $f / 1500 (mW/cm^2)$ For frequency range of 1500-100,000 MHz, the MPE is 1 (mW/cm^2)

Power Output	Distance	Power Density	Power Density	Limit	Result
Watts	Meter	W/M2	MW/cm2	MW/Cm2	
0.28	0.2	0.9135	0.0914	0.5573	PASS
0.48	0.2	1.5660	0.1566	0.5573	PASS
0.55	0.2	1.7944	0.1794	1	PASS

Power Density $(W/M^2) = (30 * P_t * G) / (d^2 * Z_0)$

 P_t = Power Delivered to the Antenna G = Antenna Gain d = Distance in meters Zo = Impedance of Free Space = 377 Ω

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 0.28 Watts

At measured output power at antenna terminal of 0.48 Watts and 0.55 watts, the EUT satisfies the requirement in both frequency ranges.



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 #:	78691	Date:	04/06/2002
Test Type:	Conducted Emissions	Time:	1:36:46 PM
Equipment:	Dual Data Modem	Sequence#:	8
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		120V 60Hz
S/N:	NA		
Equipment Und	<i>ler Test</i> (* = EUT):		
Function	Manufacturer	Model #	S/N

Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA	
Support Devices:				
Function	Manufacturer	Model #	S/N	
Laptop	Samsung	Academy 680	558791ANB00124	

Test Conditions / Notes:

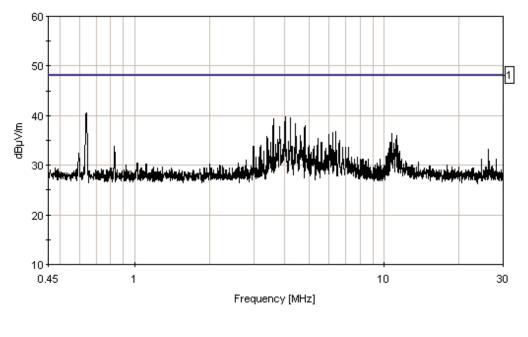
EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. Antenna port is connected to antenna Receiver mode. TX Frequency set to: 824.04 MHz. Range of measurement: 450 kHz-30 MHz RBW=VBW=9kHz. 12 Vdc, 19°C, 66% relative humidity. Note: Grounding integrity improved by bonding the CDMA modem to the ground plane of the PCB with copper tape.

Measur	ement Data:	: Re	ading li	sted by n	nargin.			Test Lead	d: Black		
#	Freq	Rdng					Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	638.891k	40.6					+0.0	40.6	48.0	-7.4	Black
2	4.015M	39.7					+0.0	39.7	48.0	-8.3	Black
3	4.206M	39.6					+0.0	39.6	48.0	-8.4	Black
4	3.595M	39.3					+0.0	39.3	48.0	-8.7	Black
5	4.418M	38.3					+0.0	38.3	48.0	-9.7	Black
6	4.807M	38.0					+0.0	38.0	48.0	-10.0	Black
7	3.810M	37.8					+0.0	37.8	48.0	-10.2	Black
8	6.404M	36.8					+0.0	36.8	48.0	-11.2	Black



9	6.206M	36.5	+0.0	36.5	48.0	-11.5	Black
10	10.744M	36.4	+0.0	36.4	48.0	-11.6	Black
11	6.015M	36.1	+0.0	36.1	48.0	-11.9	Black
12	4.609M	36.0	+0.0	36.0	48.0	-12.0	Black
13	11.192M	35.9	+0.0	35.9	48.0	-12.1	Black
14	3.395M	35.7	+0.0	35.7	48.0	-12.3	Black
15	5.407M	35.4	+0.0	35.4	48.0	-12.6	Black

CKC Laboratories, Inc. Date: 04/06/2002 Time: 1:36:46 PM_AnyData.net Incorporated. WO#: 78691 FCC 15.107 Class B_Test Lead: Black 120V 60Hz Sequence#: 8





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

Customer: Specification:	AnyData.net Incorporated. FCC 15.107 Class B		
Work Order #:	78691	Date:	04/06/2002
Test Type:	Conducted Emissions	Time:	1:44:18 PM
Equipment:	Dual Data Modem	Sequence#:	9
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		120V 60Hz
S/N:	NA		

Function	Manufacturer	Model #	S/N	
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA	

Support Devices:

Support Dericesi			
Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

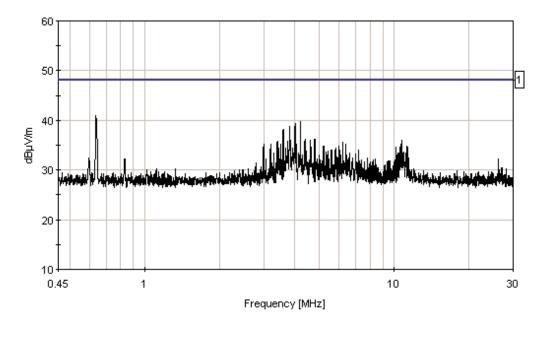
EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. Antenna port is connected to antenna Receiver mode. TX Frequency set to: 824.04 MHz Range of measurement: 450 kHz-30 MHz RBW=VBW=9kHz. 12 Vdc, 19°C, 66% relative humidity. Note: Grounding integrity improved by bonding the CDMA modem to the ground plane of the PCB with copper tape.

Measu	rement Data.	: Re	eading 1	isted by n	nargin.			Test Lead	1: White		
#	Freq	Rdng					Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	636.383k	40.9					+0.0	40.9	48.0	-7.1	White
2	4.206M	39.8					+0.0	39.8	48.0	-8.2	White
3	4.008M	39.4					+0.0	39.4	48.0	-8.6	White
4	3.810M	38.8					+0.0	38.8	48.0	-9.2	White
5	3.598M	38.2					+0.0	38.2	48.0	-9.8	White
6	4.411M	36.1					+0.0	36.1	48.0	-11.9	White
7	4.800M	36.1					+0.0	36.1	48.0	-11.9	White
8	10.744M	36.0					+0.0	36.0	48.0	-12.0	White
9	4.609M	35.9					+0.0	35.9	48.0	-12.1	White
10	3.756M	35.8					+0.0	35.8	48.0	-12.2	White



11	4.356M	35.8		+0.0	35.8	48.0	-12.2	White
12	3.402M	35.7		+0.0	35.7	48.0	-12.3	White
13	6.213M	35.6		+0.0	35.6	48.0	-12.4	White
14	3.521M	35.2		+0.0	35.2	48.0	-12.8	White
15	10.607M	35.2		+0.0	35.2	48.0	-12.8	White

CKC Laboratories, Inc. Date: 04/06/2002 Time: 1:44:18 PM AnyData.net Incorporated. WO#: 78691 FCC 15.107 Class B Test Lead: White 120V 60Hz Sequence#: 9





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

Customer: Specification:	AnyData.net Incorporated. FCC 15.107 Class B		
Work Order #:	78691	Date:	04/06/2002
Test Type:	Conducted Emissions	Time:	1:54:13 PM
Equipment:	Dual Data Modem	Sequence#:	11
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		120V 60Hz
S/N:	NA		

Function	Manufacturer	Model #	S/N	
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA	

Support Devices:

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

Test Conditions / Notes:

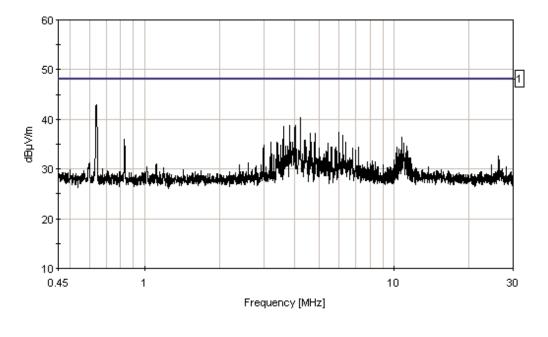
EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. Antenna port is connected to antenna Receiver mode. TX Frequency set to: 836.52 MHz Range of measurement: 450 kHz-30 MHz RBW=VBW=9kHz. 12 Vdc, 19°C, 66% relative humidity. Note: Grounding integrity improved by bonding the CDMA modem to the ground plane of the PCB with copper tape.

Measur	ement Data.	Re Re	eading l	isted by n	nargin.			Test Lead	l: Black		
#	Freq	Rdng					Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	$dB\mu V/m$	dB	Ant
1	640.562k	43.0					+0.0	43.0	48.0	-5.0	Black
2	4.206M	40.4					+0.0	40.4	48.0	-7.6	Black
3	3.810M	38.8					+0.0	38.8	48.0	-9.2	Black
4	4.008M	38.7					+0.0	38.7	48.0	-9.3	Black
5	3.595M	38.5					+0.0	38.5	48.0	-9.5	Black
6	6.015M	37.3					+0.0	37.3	48.0	-10.7	Black
7	4.807M	37.2					+0.0	37.2	48.0	-10.8	Black
8	4.609M	37.1					+0.0	37.1	48.0	-10.9	Black
9	6.213M	36.7					+0.0	36.7	48.0	-11.3	Black
10	10.744M	36.3					+0.0	36.3	48.0	-11.7	Black



11	3.981M	36.0	+0.0	36.0	48.0	-12.0	Black
12	829.453k	35.9	+0.0	35.9	48.0	-12.1	Black
13	4.363M	35.7	+0.0	35.7	48.0	-12.3	Black
14	4.411M	35.7	+0.0	35.7	48.0	-12.3	Black
15	6.410M	35.4	+0.0	35.4	48.0	-12.6	Black

CKC Laboratories, Inc. Date: 04/06/2002 Time: 1:54:13 PM_AnyData.net Incorporated. VVO#: 78691 FCC 15.107 Class B_Test Lead: Black 120V 60Hz Sequence#: 11





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

Customer: Specification:	AnyData.net Incorporated. FCC 15.107 Class B		
Work Order #:	78691	Date:	04/06/2002
Test Type:	Conducted Emissions	Time:	1:50:32 PM
Equipment:	Dual Data Modem	Sequence#:	10
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		120V 60Hz
S/N:	NA		

Function	Manufacturer	Model #	S/N
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA

Support Devices:

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

Test Conditions / Notes:

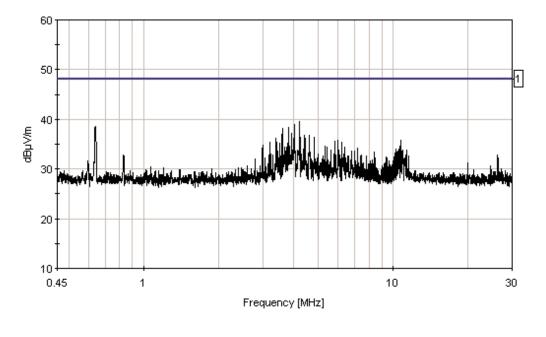
EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. Antenna port is connected to antenna Receiver mode. TX Frequency set to: 836.52 MHz Range of measurement: 450 kHz-30 MHz RBW=VBW=9kHz. 12 Vdc, 19°C, 66% relative humidity. Note: Grounding integrity improved by bonding the CDMA modem to the ground plane of the PCB with copper tape.

Measur	ement Data.	: Re	eading l	isted by n	nargin.			Test Lead	1: White		
#	Freq MHz	Rdng dBµV	dB	dB	dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	4.213M	39.6					+0.0	39.6	48.0	-8.4	White
2	4.015M	38.9					+0.0	38.9	48.0	-9.1	White
3	639.727k	38.6					+0.0	38.6	48.0	-9.4	White
4	3.824M	38.3					+0.0	38.3	48.0	-9.7	White
5	3.595M	38.1					+0.0	38.1	48.0	-9.9	White
6	3.913M	37.1					+0.0	37.1	48.0	-10.9	White
7	4.425M	36.8					+0.0	36.8	48.0	-11.2	White
8	4.623M	36.7					+0.0	36.7	48.0	-11.3	White
9	4.814M	36.3					+0.0	36.3	48.0	-11.7	White
10	3.392M	36.1					+0.0	36.1	48.0	-11.9	White



11	6.021M	35.8	+(0.0	35.8	48.0	-12.2	White
12	10.744M	35.8	+(0.0	35.8	48.0	-12.2	White
13	5.824M	35.6	+(0.0	35.6	48.0	-12.4	White
14	3.196M	35.4	+(0.0	35.4	48.0	-12.6	White
15	6.219M	35.4	+(0.0	35.4	48.0	-12.6	White

CKC Laboratories, Inc. Date: 04/06/2002 Time: 1:50:32 PM_AnyData.net Incorporated. VVO#: 78691 FCC 15.107 Class B_Test Lead: White 120V 60Hz Sequence#: 10





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

Customer: Specification:	AnyData.net Incorporated. FCC 15.107 Class B		
Work Order #:	78691	Date:	04/06/2002
Test Type:	Conducted Emissions	Time:	2:01:14 PM
Equipment:	Dual Data Modem	Sequence#:	12
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		120V 60Hz
S/N:	NA		

Function	Manufacturer	Model #	S/N
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA

Support Devices:

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

Test Conditions / Notes:

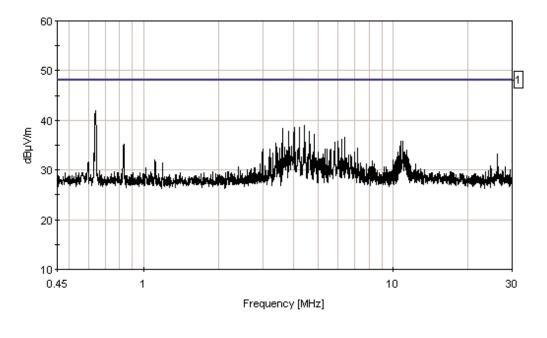
EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. Antenna port is connected to antenna Receiver mode. TX Frequency set to: 848.97 MHz Range of measurement: 450 kHz-30 MHz RBW=VBW=9kHz. 12 Vdc, 19°C, 66% relative humidity. Note: Grounding integrity improved by bonding the CDMA modem to the ground plane of the PCB with copper tape.

Measur	rement Data	: Re	eading 1	isted by n	nargin.			Test Lead	d: Black		
#	Freq	Rdng					Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	641.398k	41.9					+0.0	41.9	48.0	-6.1	Black
2	4.418M	38.9					+0.0	38.9	48.0	-9.1	Black
3	4.008M	38.5					+0.0	38.5	48.0	-9.5	Black
4	4.206M	38.5					+0.0	38.5	48.0	-9.5	Black
5	3.598M	38.3					+0.0	38.3	48.0	-9.7	Black
6	4.616M	37.8					+0.0	37.8	48.0	-10.2	Black
7	3.817M	37.7					+0.0	37.7	48.0	-10.3	Black
8	4.814M	37.2					+0.0	37.2	48.0	-10.8	Black
9	6.410M	36.5					+0.0	36.5	48.0	-11.5	Black
10	6.206M	36.1					+0.0	36.1	48.0	-11.9	Black



11	6.008M	35.8		+0.0	35.8	48.0	-12.2	Black
12	10.763M	35.8		+0.0	35.8	48.0	-12.2	Black
13	10.958M	35.8		+0.0	35.8	48.0	-12.2	Black
14	5.824M	35.6		+0.0	35.6	48.0	-12.4	Black
15	3.395M	35.4		+0.0	35.4	48.0	-12.6	Black

CKC Laboratories, Inc. Date: 04/06/2002 Time: 2:01:14 PM_AnyData.net Incorporated. VVO#: 78691 FCC 15.107 Class B_Test Lead: Black 120V 60Hz Sequence#: 12





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

Customer: Specification:	AnyData.net Incorporated. FCC 15.107 Class B		
Work Order #:	78691	Date:	04/06/2002
Test Type:	Conducted Emissions	Time:	2:41:32 PM
Equipment:	Dual Data Modem	Sequence#:	14
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		120V 60Hz
S/N:	NA		

Function	Manufacturer	Model #	S/N	
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA	

Support Devices:

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

Test Conditions / Notes:

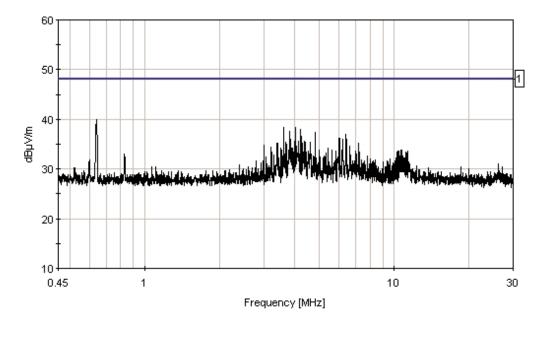
EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. Antenna port is connected to antenna Receiver mode. TX Frequency set to: 848.97 MHz Range of measurement: 450 kHz-30 MHz RBW=VBW=9kHz. 12 Vdc, 19°C, 66% relative humidity. Note: Grounding integrity improved by bonding the CDMA modem to the ground plane of the PCB with copper tape.

Measu	rement Data	: Re	eading l	isted by n	nargin.			Test Lead	d: White		
#	Freq	Rdng					Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	639.727k	39.9					+0.0	39.9	48.0	-8.1	White
2	3.602M	38.4					+0.0	38.4	48.0	-9.6	White
3	4.015M	38.4					+0.0	38.4	48.0	-9.6	White
4	4.213M	38.0					+0.0	38.0	48.0	-10.0	White
5	3.817M	37.6					+0.0	37.6	48.0	-10.4	White
6	4.814M	37.3					+0.0	37.3	48.0	-10.7	White
7	6.417M	36.9					+0.0	36.9	48.0	-11.1	White
8	6.028M	36.2					+0.0	36.2	48.0	-11.8	White
9	3.845M	36.0					+0.0	36.0	48.0	-12.0	White
10	6.219M	36.0					+0.0	36.0	48.0	-12.0	White



11	4.145M	35.5	+0.0	35.5	48.0	-12.5	White
12	4.370M	35.5	+0.0	35.5	48.0	-12.5	White
13	4.616M	35.4	+0.0	35.4	48.0	-12.6	White
14	3.688M	35.3	+0.0	35.3	48.0	-12.7	White
15	4.425M	35.3	+0.0	35.3	48.0	-12.7	White

CKC Laboratories, Inc. Date: 04/06/2002 Time: 2:41:32 PM_AnyData.net Incorporated. VVO#: 78691 FCC 15.107 Class B_Test Lead: White 120V 60Hz Sequence#: 14





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

Customer: Specification:	AnyData.net Incorporated. FCC 15.107 Class B		
Work Order #:	78691	Date:	04/06/2002
Test Type:	Conducted Emissions	Time:	2:13:57 PM
Equipment:	Dual Data Modem	Sequence#:	15
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		120V 60Hz
S/N:	NA		

Function	Manufacturer	Model #	S/N
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA

Support Devices:

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

Test Conditions / Notes:

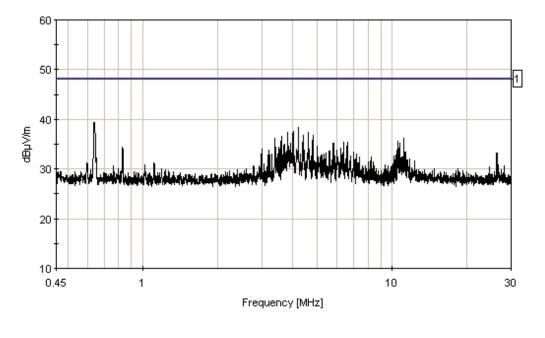
EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. Antenna port is connected to antenna Receiver mode. TX Frequency set to: 1851.25 MHz Range of measurement: 450 kHz-30 MHz RBW=VBW=9kHz. 12 Vdc, 19°C, 66% relative humidity. Note: Grounding integrity improved by bonding the CDMA modem to the ground plane of the PCB with copper tape.

Measur	rement Data.	Re Re	eading 1	isted by n	nargin.			Test Lead	l: Black		
#	Freq	Rdng					Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	637.219k	39.4					+0.0	39.4	48.0	-8.6	Black
2	4.206M	38.4					+0.0	38.4	48.0	-9.6	Black
3	4.008M	37.6					+0.0	37.6	48.0	-10.4	Black
4	3.810M	37.4					+0.0	37.4	48.0	-10.6	Black
5	4.616M	37.3					+0.0	37.3	48.0	-10.7	Black
6	4.404M	36.8					+0.0	36.8	48.0	-11.2	Black
7	4.807M	36.7					+0.0	36.7	48.0	-11.3	Black
8	3.602M	36.6					+0.0	36.6	48.0	-11.4	Black
9	3.392M	36.2					+0.0	36.2	48.0	-11.8	Black
10	11.134M	36.1					+0.0	36.1	48.0	-11.9	Black



11	10.529M	35.6		+0.0	35.6	48.0	-12.4	Black
12	6.410M	35.4		+0.0	35.4	48.0	-12.6	Black
13	4.363M	35.3		+0.0	35.3	48.0	-12.7	Black
14	6.608M	35.3		+0.0	35.3	48.0	-12.7	Black
15	10.763M	35.1		+0.0	35.1	48.0	-12.9	Black

CKC Laboratories, Inc. Date: 04/06/2002 Time: 2:13:57 PM_AnyData.net Incorporated. WO#: 78691 FCC 15:107 Class B_Test Lead: Black 120V 60Hz Sequence#: 15





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

Customer: Specification:	AnyData.net Incorporated. FCC 15.107 Class B		
Work Order #:	78691	Date:	04/06/2002
Test Type:	Conducted Emissions	Time:	2:10:55 PM
Equipment:	Dual Data Modem	Sequence#:	14
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		120V 60Hz
S/N:	NA		

Function	Manufacturer	Model #	S/N
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA

Support Devices:

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

Test Conditions / Notes:

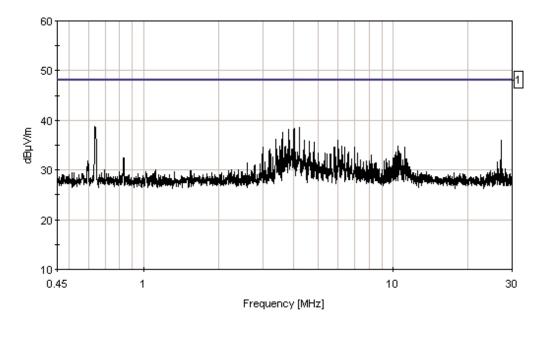
EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. Antenna port is connected to antenna Receiver mode. TX Frequency set to: 1851.25 MHz Range of measurement: 450 kHz-30 MHz RBW=VBW=9kHz. 12 Vdc, 19°C, 66% relative humidity. Note: Grounding integrity improved by bonding the CDMA modem to the ground plane of the PCB with copper tape.

Measur	rement Data	: Re	eading 1	isted by n	nargin.	. Test Lead: White					
#	Freq	Rdng					Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	637.219k	38.7					+0.0	38.7	48.0	-9.3	White
2	4.213M	38.6					+0.0	38.6	48.0	-9.4	White
3	4.008M	38.4					+0.0	38.4	48.0	-9.6	White
4	3.817M	38.2					+0.0	38.2	48.0	-9.8	White
5	3.600M	37.5					+0.0	37.5	48.0	-10.5	White
6	3.390M	36.1					+0.0	36.1	48.0	-11.9	White
7	3.845M	35.9					+0.0	35.9	48.0	-12.1	White
8	4.418M	35.9					+0.0	35.9	48.0	-12.1	White
9	6.021M	35.9					+0.0	35.9	48.0	-12.1	White
10	27.034M	35.9					+0.0	35.9	48.0	-12.1	White



11	4.609M	35.7		+0.0	35.7	48.0	-12.3	White
12	4.807M	35.6		+0.0	35.6	48.0	-12.4	White
13	3.524M	34.9		+0.0	34.9	48.0	-13.1	White
14	10.457M	34.9		+0.0	34.9	48.0	-13.1	White
15	6.219M	34.8		+0.0	34.8	48.0	-13.2	White

CKC Laboratories, Inc. Date: 04/06/2002 Time: 2:10:55 PM_AnyData.net Incorporated. WO#: 78691 FCC 15.107 Class B_Test Lead: White 120V 60Hz Sequence#: 14





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

Customer: Specification: Work Order #:	AnyData.net Incorporated. FCC 15.107 Class B 78691		04/06/2002
Test Type:	Conducted Emissions	I ime:	2:17:58 PM
Equipment:	Dual Data Modem	Sequence#:	16
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		120V 60Hz
S/N:	NA		

Function	Manufacturer	Model #	S/N
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA

Support Devices:

Support Dericesi			
Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

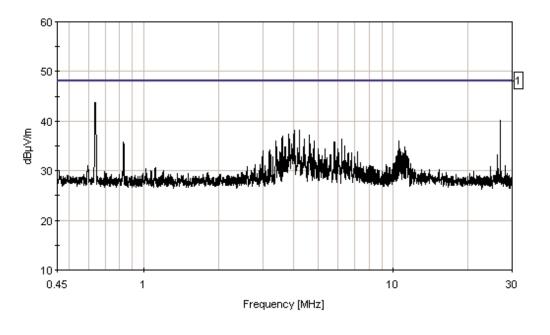
EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. Antenna port is connected to antenna Receiver mode. TX Frequency set to: 1880.00 MHz Range of measurement: 450 kHz-30 MHz RBW=VBW=9kHz. 12 Vdc, 19°C, 66% relative humidity. Note: Grounding integrity improved by bonding the CDMA modem to the ground plane of the PCB with copper tape.

Measur	Measurement Data: Reading listed by margin.							Test Lead	l: Black		
#	Freq	Rdng					Dist	Corr	Spec	Margin	Polar
	MHz	dBµŬ	dB	dB	dB	dB	Table	$dB\mu V/m$	-	dB	Ant
1	638.055k	43.7					+0.0	43.7	48.0	-4.3	Black
2	26.937M	40.2					+0.0	40.2	48.0	-7.8	Black
3	4.008M	38.1					+0.0	38.1	48.0	-9.9	Black
4	4.213M	38.1					+0.0	38.1	48.0	-9.9	Black
5	3.817M	37.4					+0.0	37.4	48.0	-10.6	Black
6	4.609M	37.1					+0.0	37.1	48.0	-10.9	Black
7	3.598M	37.0					+0.0	37.0	48.0	-11.0	Black
8	4.411M	36.4					+0.0	36.4	48.0	-11.6	Black
9	3.838M	36.3					+0.0	36.3	48.0	-11.7	Black



10	6.219M	36.3	+0.0	36.3	48.0	-11.7	Black
11	3.395M	36.0	+0.0	36.0	48.0	-12.0	Black
	100516	24.0			10.0	10.0	D1 1
12	4.807M	36.0	+0.0	36.0	48.0	-12.0	Black
13	10.529M	35.9	+0.0	35.9	48.0	-12.1	Black
14	830.289k	35.8	+0.0	35.8	48.0	-12.2	Black
15	5.810M	35.8	+0.0	35.8	48.0	-12.2	Black

CKC Laboratories, Inc. Date: 04/06/2002 Time: 2:17:58 PM_AnyData.net Incorporated. WO#: 78691 FCC 15.107 Class B_Test Lead: Black 120V 60Hz Sequence#: 16





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

Customer: Specification:	AnyData.net Incorporated. FCC 15.107 Class B		
Work Order #:	78691	Date:	04/06/2002
Test Type:	Conducted Emissions	Time:	2:21:01 PM
Equipment:	Dual Data Modem	Sequence#:	17
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		120V 60Hz
S/N:	NA		

Function	Manufacturer	Model #	S/N
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA

Support Devices:

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

Test Conditions / Notes:

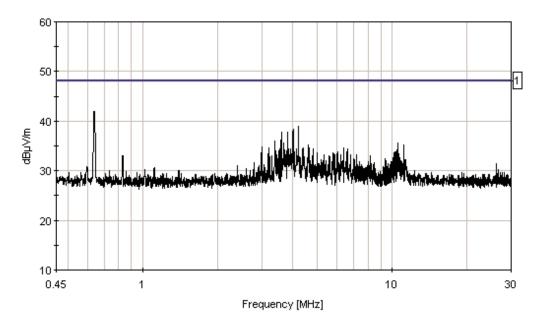
EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. Antenna port is connected to antenna Receiver mode. TX Frequency set to: 1880.00 MHz Range of measurement: 450 kHz-30 MHz RBW=VBW=9kHz. 12 Vdc, 19°C, 66% relative humidity. Note: Grounding integrity improved by bonding the CDMA modem to the ground plane of the PCB with copper tape.

Measur	ement Data.	: Re	eading l	isted by n	nargin.			Test Lead	1: White		
#	Freq	Rdng					Dist	Corr	Spec	Margin	Polar
	MHz	dBµŬ	dB	dB	dB	dB	Table	dBµV/m	-	dB	Ant
1	637.219k	42.0					+0.0	42.0	48.0	-6.0	White
2	4.213M	38.9					+0.0	38.9	48.0	-9.1	White
3	4.008M	38.4					+0.0	38.4	48.0	-9.6	White
4	3.810M	37.8					+0.0	37.8	48.0	-10.2	White
5	3.600M	37.7					+0.0	37.7	48.0	-10.3	White
6	3.390M	35.9					+0.0	35.9	48.0	-12.1	White
7	3.688M	35.5					+0.0	35.5	48.0	-12.5	White
8	10.529M	35.5					+0.0	35.5	48.0	-12.5	White
9	4.609M	35.2					+0.0	35.2	48.0	-12.8	White



10	11.134M	35.2	-	+0.0	35.2	48.0	-12.8	White
11	2.996M	34.8	-	+0.0	34.8	48.0	-13.2	White
12	4.411M	34.7	 -	+0.0	34.7	48.0	-13.3	White
13	6.410M	34.7	-	+0.0	34.7	48.0	-13.3	White
14	3.194M	34.6	-	+0.0	34.6	48.0	-13.4	White
15	6.608M	34.5	-	+0.0	34.5	48.0	-13.5	White

CKC Laboratories, Inc. Date: 04/06/2002 Time: 2:21:01 PM_AnyData.net Incorporated.WO#: 78691 FCC 15.107 Class B_Test Lead: White 120V 60Hz Sequence#: 17



------ 1 - FCC 15.107 Class B



Test Location: CKC La	aboratories, Inc.	•110 N.	Olinda Place	 Brea, CA 928 	23 • (714) 993-6112
-----------------------	-------------------	---------	--------------	----------------------------------	---------------------

Customer: Specification:	AnyData.net Incorporated. FCC 15.107 Class B		
Work Order #:	78691	Date:	04/06/2002
Test Type:	Conducted Emissions	Time:	2:31:38 PM
Equipment:	Dual Data Modem	Sequence#:	20
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		120V 60Hz
S/N:	NA		

Function	Manufacturer	Model #	S/N
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA

Support Devices:

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

Test Conditions / Notes:

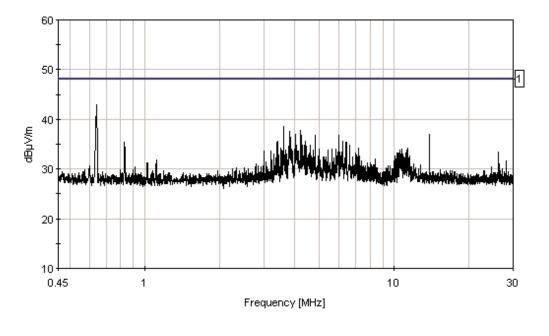
EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. Antenna port is connected to antenna Receiver mode. TX Frequency set to: 1908.75 MHz Range of measurement: 450 kHz-30 MHz RBW=VBW=9kHz. 12 Vdc, 19°C, 66% relative humidity. Note: Grounding integrity improved by bonding the CDMA modem to the ground plane of the PCB with copper tape.

Measur	rement Data.	Re Re	eading l	isted by n	nargin.			Test Lead	d: Black		
#	Freq	Rdng					Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	640.562k	42.9					+0.0	42.9	48.0	-5.1	Black
2	3.600M	38.5					+0.0	38.5	48.0	-9.5	Black
3	4.220M	37.7					+0.0	37.7	48.0	-10.3	Black
4	3.824M	37.5					+0.0	37.5	48.0	-10.5	Black
5	4.015M	37.0					+0.0	37.0	48.0	-11.0	Black
6	13.885M	36.9					+0.0	36.9	48.0	-11.1	Black
7	6.021M	36.8					+0.0	36.8	48.0	-11.2	Black
8	4.820M	36.7					+0.0	36.7	48.0	-11.3	Black
9	3.402M	35.6					+0.0	35.6	48.0	-12.4	Black
10	4.425M	35.6					+0.0	35.6	48.0	-12.4	Black



11	6.219M	35.6	+0.0	35.6	48.0	-12.4	Black
12	830.289k	35.3	+0.0	35.3	48.0	-12.7	Black
13	6.424M	35.3	+0.0	35.3	48.0	-12.7	Black
14	4.370M	34.9	+0.0	34.9	48.0	-13.1	Black
15	6.622M	34.9	+0.0	34.9	48.0	-13.1	Black

CKC Laboratories, Inc. Date: 04/06/2002 Time: 2:31:38 PM_AnyData.net Incorporated. VVO#: 78691 FCC 15.107 Class B_Test Lead: Black 120V 60Hz Sequence#: 20





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

Customer: Specification: Work Order #:	AnyData.net Incorporated. FCC 15.107 Class B 78691		04/06/2002
Test Type:	Conducted Emissions	Time:	2:29:10 PM
Equipment:	Dual Data Modem	Sequence#:	19
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		120V 60Hz
S/N:	NA		

Function	Manufacturer	Model #	S/N
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA

Support Devices:

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

Test Conditions / Notes:

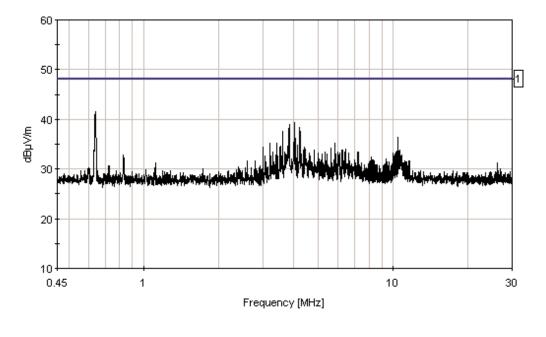
EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. Antenna port is connected to antenna Receiver mode. TX Frequency set to: 1908.75 MHz Range of measurement: 450 kHz-30 MHz RBW=VBW=9kHz. 12 Vdc, 19°C, 66% relative humidity. Note: Grounding integrity improved by bonding the CDMA modem to the ground plane of the PCB with copper tape.

Measur	rement Data.	e Re	Reading listed by margin.					Test Lead: White			
#	Freq	Rdng					Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	640.562k	41.5					+0.0	41.5	48.0	-6.5	White
2	4.029M	39.4					+0.0	39.4	48.0	-8.6	White
3	3.831M	39.0					+0.0	39.0	48.0	-9.0	White
4	4.220M	38.4					+0.0	38.4	48.0	-9.6	White
5	3.602M	37.5					+0.0	37.5	48.0	-10.5	White
6	10.464M	36.4					+0.0	36.4	48.0	-11.6	White
7	3.995M	35.4					+0.0	35.4	48.0	-12.6	White
8	3.409M	35.2					+0.0	35.2	48.0	-12.8	White
9	5.830M	35.2					+0.0	35.2	48.0	-12.8	White
10	3.211M	35.1					+0.0	35.1	48.0	-12.9	White



11	4.070M	34.9	+0.0	34.9	48.0	-13.1	White
12	4.138M	34.8	+0.0	34.8	48.0	-13.2	White
13	3.001M	34.4	+0.0	34.4	48.0	-13.6	White
14	4.425M	34.4	+0.0	34.4	48.0	-13.6	White
15	5.632M	34.3	+0.0	34.3	48.0	-13.7	White

CKC Laboratories, Inc. Date: 04/06/2002 Time: 2:29:10 PM_AnyData.net Incorporated. VVO#: 78691 FCC 15.107 Class B_Test Lead: White 120V 60Hz Sequence#: 19





Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
450 kHz- 30 MHz						
Spectrum Analyzer	01865	HP	8566B	2532A02509	092801	092802
QP Adapter	01437	HP	85650A	3303A01884	092801	092802
LISN	00847	EMCO	3816/2NM	1104	101501	101502

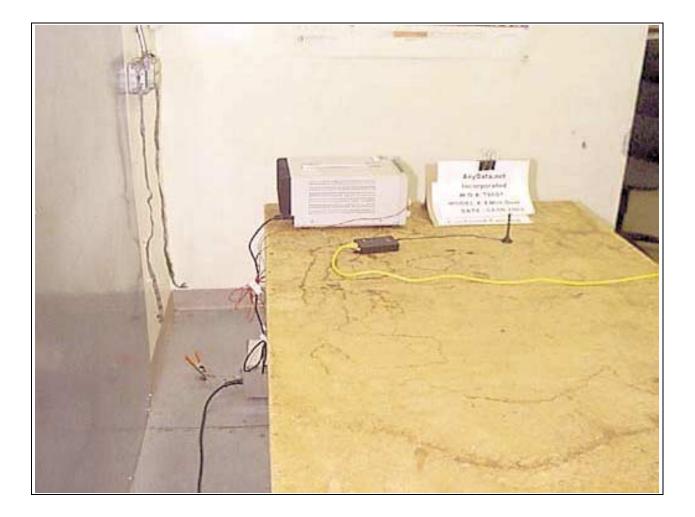
Test Equipment 15.107: AC Conducted



Mains Conducted Emissions - Front View

Page 69 of 81 Report No.: FC02-038





Mains Conducted Emissions - Side View



15.109 - RADIATED EMISSIONS - RECEIVER/DIGITAL

Test Location:	CKC Laboratories, Inc. •110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112							
Customer: Specification: Work Order #: Test Type: Equipment: Manufacturer: Model: S/N:	AnyData.net Incorporated. FCC 15.109 Class B 78691 Maximized Emissions Dual Data Modem AnyData.net Incorporated EMIII-Dual NA	Time: Sequence#:	04/06/2002 04:02:01 7 Eddie Wong					
Equipment Und	<i>ler Test</i> (* = EUT):							
Function	Manufacturer	Model #	S/N					

Support Devices:			
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA
Function	Manufacturer	Model #	S/IN

<u>surr</u> surr				
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. Antenna port is connected to antenna Receiver mode. TX Frequency set to: 824.04 MHz. Range of measurement: 30 MHz- 9 GHz RBW=VBW=120 kHz: 30 - 1000MHz RBW=VBW= 1 MHz: 1GHz - 9 GHz. 12 Vdc, 19°C, 66% relative humidity. Note: Grounding integrity improved by bonding the CDMA modem to the ground plane of the PCB with copper tape.

Transducer Legend:	
T1=Bicon 092401	T2=Log 331 092401
T3=Cable #10 071601	T4=Cable #15 120602
T5=Preamp 8447D 090501	T6=Horn Antenna sn6246
T7=Heliax #18 70' 11Sept2001	T8=HP3017A sn3123A00281 11-Sept-01
T9=Dipole#4 110902	

Measur	rement Data:	Re	eading lis	ted by ma	argin.		Те	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7	T8					
			T9								
	MHz	dBµV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	954.408M	39.5	+0.0	+23.7	+0.6	+6.3	+0.0	42.4	46.0	-3.6	Horiz
			-27.7	+0.0	+0.0	+0.0					
			+0.0								
2	954.408M	35.5	+0.0	+23.7	+0.6	+6.3	+0.0	38.4	46.0	-7.6	Vert
			-27.7	+0.0	+0.0	+0.0					
			+0.0								
3	952.633M	30.7	+0.0	+23.7	+0.6	+6.2	+0.0	33.5	46.0	-12.5	Horiz
			-27.7	+0.0	+0.0	+0.0					
			+0.0								
4	119.985M	33.1	+15.3	+0.0	+0.2	+2.0	+0.0	22.2	43.5	-21.3	Horiz
			-28.4	+0.0	+0.0	+0.0					



5 261.329M	26.5	+18.9 -28.2	$^{+0.0}_{+0.0}$	+0.3 +0.0	+3.0 +0.0	+0.0	20.5	46.0	-25.5	Vert
6 1594.000M	38.1	+0.0 +0.0 +0.0 +0.0	+0.0 +24.9	+0.0 +3.5	+0.0 -38.6	+0.0	27.9	54.0	-26.1	Horiz
7 1187.899M	34.8	+0.0 +0.0 +0.0	+0.0 +24.2	+0.0 +2.9	+0.0 -39.7	+0.0	22.2	54.0	-31.8	Vert



Test Location:	CKC Laboratories, Inc. •110 N. C	Dlinda Place • Brea, CA 9282	23 • (714) 993-6112
Customer:	AnyData.net Incorporated.		
Specification:	FCC 15.109 Class B		
Work Order #:	78691	Date:	04/06/2002
Test Type:	Maximized Emissions	Time:	03:55:36
Equipment:	Dual Data Modem	Sequence#:	8
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		
S/N:	NA		
	der Test (* = EUT):		
T		3.6. 1.1.11	CAT

Function	Manufacturer	Model #	S/N	
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA	
Sunnart Devices				

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. Antenna port is connected to antenna Receiver mode. TX Frequency set to: 836.52 MHz. Range of measurement: 30 MHz- 9 GHz RBW=VBW=120 kHz: 30 - 1000MHz RBW=VBW= 1 MHz: 1GHz - 9 GHz. 12 Vdc, 19°C, 66% relative humidity. Note: Enhanced grounding integrity by bonding the CDMA modem to the ground plane of the PCB with copper tape.

T1=Bicon 092401	T2=Log 331 092401
T3=Cable #10 071601	T4=Cable #15 120602
T5=Preamp 8447D 090501	T6=Horn Antenna sn6246
T7=Heliax #18 70' 11Sept2001	T8=HP3017A sn3123A00281 11-Sept-01

Measu	rement Data:	Re	eading lis	ted by ma	argin.		Τe	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7	T8					
	MHz	dBµV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	966.884M	41.4	+0.0	+23.9	+0.6	+6.5	+0.0	44.6	54.0	-9.4	Horiz
			-27.8	+0.0	+0.0	+0.0					
2	966.914M	37.4	+0.0	+23.9	+0.6	+6.5	+0.0	40.6	54.0	-13.4	Vert
			-27.8	+0.0	+0.0	+0.0					
3	4920.000M	36.2	+0.0	+0.0	+0.0	+0.0	+0.0	38.3	54.0	-15.7	Horiz
			+0.0	+33.0	+6.3	-37.2					
4	5000.000M	35.6	+0.0	+0.0	+0.0	+0.0	+0.0	37.8	54.0	-16.2	Vert
			+0.0	+33.1	+6.3	-37.2					
5	298.838M	29.8	+22.1	+0.0	+0.3	+3.3	+0.0	27.2	46.0	-18.8	Vert
			-28.3	+0.0	+0.0	+0.0					
6	228.225M	29.7	+17.4	+0.0	+0.3	+2.7	+0.0	21.8	46.0	-24.2	Horiz
			-28.3	+0.0	+0.0	+0.0					



Test Location:	CKC Laboratories, Inc. •110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112			
Customer: Specification: Work Order #: Test Type: Equipment: Manufacturer: Model:	AnyData.net Incorporated. FCC 15.109 Class B 78691 Maximized Emissions Dual Data Modem AnyData.net Incorporated EMIII-Dual	Time: Sequence#:	04/06/2002 01:55:12 9 Eddie Wong	
S/N:	NA			
Function	er Test (* = EUT): Manufacturer	Model #	S/N	
Dual Data Moden		EMIII-Dual	NA	
Support Davias				

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. Antenna port is connected to antenna Receiver mode. TX Frequency set to: 848.97 MHz. Range of measurement: 30 MHz- 9 GHz RBW=VBW=120 kHz: 30 - 1000MHz RBW=VBW= 1 MHz: 1GHz - 9 GHz. 12 Vdc, 19°C, 66% relative humidity. Note: Enhanced grounding integrity by bonding the CDMA modem to the ground plane of the PCB with copper tape.

T1=Bicon 092401	T2=Log 331 092401
T3=Cable #10 071601	T4=Cable #15 120602
T5=Preamp 8447D 090501	T6=Horn Antenna sn6246
T7=Heliax #18 70' 11Sept2001	T8=HP3017A sn3123A00281 11-Sept-01

Measu	rement Data:	Re	eading lis	ted by ma	argin.		Т	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7	T8					
	MHz	dBµV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	979.358M	43.1	+0.0	+24.0	+0.6	+6.7	+0.0	46.6	54.0	-7.4	Horiz
			-27.8	+0.0	+0.0	+0.0					
2	2938.048M	43.5	+0.0	+0.0	+0.0	+0.0	+0.0	40.2	54.0	-13.8	Vert
			+0.0	+29.7	+4.7	-37.7					
3	979.364M	36.2	+0.0	+24.0	+0.6	+6.7	+0.0	39.7	54.0	-14.3	Vert
			-27.8	+0.0	+0.0	+0.0					
4	1958.677M	47.4	+0.0	+0.0	+0.0	+0.0	+0.0	39.1	54.0	-14.9	Vert
			+0.0	+26.3	+3.8	-38.4					
5	299.158M	28.1	+22.1	+0.0	+0.3	+3.3	+0.0	25.5	46.0	-20.5	Vert
			-28.3	+0.0	+0.0	+0.0					
6	126.586M	32.9	+15.9	+0.0	+0.2	+2.0	+0.0	22.6	43.5	-20.9	Horiz
			-28.4	+0.0	+0.0	+0.0					
7	122.282M	33.1	+15.5	+0.0	+0.2	+2.0	+0.0	22.4	43.5	-21.1	Horiz
			-28.4	+0.0	+0.0	+0.0					



Test Location:	CKC Laboratories, Inc. •110 N. Olinda	a Place • Brea, CA 9282	23 • (714) 993-6112
Customer:	AnyData.net Incorporated.		
Specification:	FCC 15.109 Class B		
Work Order #:	78691	Date:	04/06/2002
Test Type:	Maximized Emissions	Time:	03:42:05
Equipment:	Dual Data Modem	Sequence#:	9
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		-
S/N:	NA		
Equipment Und	der Test (* = EUT):		
Function	Manufacturer	Model #	S/N
Dual Data Mode	m* AnyData.net Incorporated	EMIII-Dual	NA
Support Device	s:		
T		37 111	CAT

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. Antenna port is connected to antenna Receiver mode. TX Frequency set to: 1851.25 MHz. Range of measurement: 30 MHz- 20 GHz RBW=VBW=120 kHz: 30 - 1000MHz RBW=VBW= 1 MHz: 1 - 20 GHz. 12 Vdc, 19°C, 66% relative humidity. Note: Enhanced grounding integrity by bonding the CDMA modem to the ground plane of the PCB with copper tape.

T1=Bicon 092401	T2=Log 331 092401
T3=Cable #10 071601	T4=Cable #15 120602
T5=Preamp 8447D 090501	T6=Horn Antenna sn6246
T7=Heliax #18 70' 11Sept2001	T8=HP3017A sn3123A00281 11-Sept-01

Measu	rement Data:	R	eading lis	ted by ma	argin.		Те	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7	T8					
	MHz	dBµV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	1720.856M	59.8	+0.0	+0.0	+0.0	+0.0	+0.0	50.2	54.0	-3.8	Vert
	Ave		+0.0	+25.4	+3.6	-38.6					
^	1720.854M	60.9	+0.0	+0.0	+0.0	+0.0	+0.0	51.3	54.0	-2.7	Vert
			+0.0	+25.4	+3.6	-38.6					
3	1720.848M	58.3	+0.0	+0.0	+0.0	+0.0	+0.0	48.7	54.0	-5.3	Horiz
			+0.0	+25.4	+3.6	-38.6					
4	298.075M	29.7	+22.0	+0.0	+0.3	+3.3	+0.0	27.0	46.0	-19.0	Horiz
			-28.3	+0.0	+0.0	+0.0					
5	1534.495M	45.2	+0.0	+0.0	+0.0	+0.0	+0.0	34.5	54.0	-19.5	Vert
			+0.0	+24.7	+3.4	-38.8					
6	989.930M	26.4	+0.0	+24.2	+0.6	+6.9	+0.0	30.2	54.0	-23.8	Horiz
			-27.9	+0.0	+0.0	+0.0					
7	253.825M	28.0	+18.2	+0.0	+0.3	+2.9	+0.0	21.2	46.0	-24.8	Vert
			-28.2	+0.0	+0.0	+0.0					
8	974.700M	24.5	+0.0	+24.0	+0.6	+6.7	+0.0	28.0	54.0	-26.0	Horiz
			-27.8	+0.0	+0.0	+0.0					



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 #:	78691	Date:	04/06/2002
Test Type:	Maximized Emissions	Time:	03:39:06
Equipment:	Dual Data Modem	Sequence#:	10
Manufacturer:	AnyData.net Incorporated	Tested By:	Eddie Wong
Model:	EMIII-Dual		
S/N:	NA		

Samsung

Equipment Under Test (* = EUT):

11				
Function	Manufacturer	Model #	S/N	
Dual Data Modem*	AnyData.net Incorporated	EMIII-Dual	NA	
Support Devices:				
Function	Manufacturer	Model #	S/N	

Academy 680

Test Conditions / Notes:

Laptop

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. Antenna port is connected to antenna Receiver mode. TX Frequency set to: 1880.00 MHz. Range of measurement: 30 MHz- 20 GHz RBW=VBW=120 kHz: 30 - 1000MHz RBW=VBW= 1 MHz: 1 - 20 GHz. 12 Vdc, 19°C, 66% relative humidity. Note: Enhanced grounding integrity by bonding the CDMA modem to the ground plane of the PCB with copper tape.

Transducer Legend:

T1=Bicon 092401 T3=Cable #10 071601 T5=Preamp 8447D 090501 T7=Heliax #18 70' 11Sept2001 T9=45MHz- 27GHz,Preampl,HP-83051A T11=HOL_HF_010_purple 65474 T2=Log 331 092401 T4=Cable #15 120602 T6=Horn Antenna sn6246 T8=HP3017A sn3123A00281 11-Sept-01 T10=18-26 HP Horn Antenna #1413

558791ANB00124

Me	asu	rement Data:	Re	eading lis	ted by m	argin.		Τe	est Distance	e: 3 Meters		
#	ŧ	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
				T5	T6	T7	T8					
				T9	T10	T11						
		MHz	dBµV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
	1	1749.606M	61.2	+0.0	+0.0	+0.0	+0.0	+0.0	51.8	54.0	-2.2	Horiz
				+0.0	+25.5	+3.6	-38.5					
				+0.0	+0.0	+0.0						
	2	1749.602M	59.4	+0.0	+0.0	+0.0	+0.0	+0.0	50.0	54.0	-4.0	Vert
				+0.0	+25.5	+3.6	-38.5					
				+0.0	+0.0	+0.0						
	3	841.767M	28.6	+0.0	+22.1	+0.6	+5.8	+0.0	29.4	46.0	-16.6	Vert
				-27.7								
	4	922.147M	26.1	+0.0	+23.3	+0.6	+6.1	+0.0	28.5	46.0	-17.5	Horiz
				-27.6								



5 168.210M	26.9	+17.5 -28.3	+0.0	+0.3	+2.3	+0.0	18.7	43.5	-24.8	Horiz
6 266.917M	26.1	+19.4 -28.3	+0.0	+0.3	+3.0	+0.0	20.5	46.0	-25.5	Vert
7 14439.900M	5.6	+0.0 +0.0 +0.0	+0.0 +39.8 +0.0	+0.0 +14.6 +0.0	+0.0 -37.4	+0.0	22.6	54.0	-31.4	Horiz



Test Location:	CKC Labor	C Laboratories, Inc. •110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112											
Customer: Specification: Work Order #: Test Type: Equipment: Manufacturer: Model: S/N:	AnyData.r FCC 15.10 78691 Maximized Dual Data AnyData.n EMIII-Dua NA	9 Class E l Emissio Modem et Incorpo	ns			Date: 04/06/2002 Time: 04:11:45 Sequence#: 11 Tested By: Eddie Wong							
Equipment Und	<i>er Test</i> (* = 1	EUT):											
Function		Model #			S/N								
Dual Data Modem* AnyData.net Incorporated				orated	EMIII-D	Jual		NA					
Support Devices	:												
Function	Ν	lanufactu	rer		Model #			S/N					
Laptop	S	amsung			Academ	y 680		558791A	NB00124				
<i>Test Conditions</i> EUT placed on the)22 nort a	opposted	to romo	ta lantan	10Vda	is obtained	l from a qui	nort nouv	r cupply			
Laptop running													
				urement	Frequency set to: 1908.75 MHz. Range of measurement: 30 MHz- 20 GHz RBW=VBW=120 kHz: 30 - 1000M								
	RBW=VBW= 1 MHz: 1 - 20 GHz. 12 Vdc, 19C, 66% relative humidity. Note: Enhanced grounding integrity by												
				C, 66% :	relative h	umidity.		hanced gro	ounding int				
	IA modem to			C, 66% :	relative h	umidity.		hanced gro	ounding int				
Transducer Leg	IA modem to end:			C, 66% :	relative h CB with c	umidity. opper tap	pe.	hanced gro	ounding int				
<i>Transducer Leg</i> T1=Bicon 09240	1A modem to <i>end:</i> 1			C, 66% :	T2=Log	umidity. opper tap 331 092	pe. 2401	hanced gro	ounding int				
<i>Transducer Leg</i> T1=Bicon 09240 T3=Cable #10 07	1A modem to end: 1 1601			C, 66% :	relative ht CB with co T2=Log T4=Cab	amidity. opper tap 331 092 le #15 12	2401 20602	hanced gro	ounding int				
<i>Transducer Leg</i> T1=Bicon 09240 T3=Cable #10 07 T5=Preamp 8447	1A modem to end: 1 1601 D 090501	the ground		C, 66% :	relative ht CB with co T2=Log T4=Cab T6=Hor	amidity. opper tap 331 092 le #15 12 n Antenr	2401 20602 na sn6246						
<i>Transducer Leg</i> T1=Bicon 09240 T3=Cable #10 07	1A modem to end: 1 1601 D 090501	the ground		C, 66% :	relative ht CB with co T2=Log T4=Cab T6=Hor	amidity. opper tap 331 092 le #15 12 n Antenr	2401 20602 na sn6246	hanced gro					
<i>Transducer Leg</i> T1=Bicon 09240 T3=Cable #10 07 T5=Preamp 8447	<u>A modem to</u> end: 1 1601 D 090501 0' 11Sept200	the ground	nd plane of	C, 66% :	relative ht CB with co T2=Log T4=Cab T6=Hor	331 092 331 092 le #15 12 n Antenr 017A sn	2401 20602 na sn6246 13123A00		t-01				
<i>Transducer Leg</i> T1=Bicon 09240 T3=Cable #10 07 T5=Preamp 8447 T7=Heliax #18 7	<u>A modem to</u> end: 1 1601 D 090501 0' 11Sept200	the groun	nd plane of	C, 66% :	relative ht CB with co T2=Log T4=Cab T6=Hor	331 092 331 092 le #15 12 n Antenr 017A sn	2401 20602 na sn6246 13123A00	281 11-Sep	t-01				
<i>Transducer Leg</i> T1=Bicon 09240 T3=Cable #10 07 T5=Preamp 8447 T7=Heliax #18 7 <i>Measurement De</i>	<u>A modem to</u> end: 1 1601 D 090501 0' 11Sept200 tta: R	the groun	nd plane of the second se	C, 66% : of the PC	relative hu CB with co T2=Log T4=Cab T6=Hor T8=HP3	331 092 331 092 le #15 12 n Antenr 017A sn Te	pe. 2401 20602 na sn6246 13123A00 st Distanc	281 11-Sep e: 3 Meters	t-01	egrity by			
<i>Transducer Leg</i> T1=Bicon 09240 T3=Cable #10 07 T5=Preamp 8447 T7=Heliax #18 7 <i>Measurement De</i>	<u>A modem to</u> end: 1 1601 D 090501 0' 11Sept200 tta: R	the groun 1 eading lis T1	ted by ma T2	C, 66% and the PC	T2=Log T4=Cab T6=Hor T8=HP3	331 092 331 092 le #15 12 n Antenr 017A sn Te Dist	2401 20602 na sn6246 13123A00 st Distanc Corr	281 11-Sep e: 3 Meters	t-01	egrity by			
Transducer Leg T1=Bicon 09240 T3=Cable #10 07 T5=Preamp 8447 T7=Heliax #18 7 Measurement Da # Freq	<u>4A modem to</u> end: 1 1601 D 090501 0' 11Sept200 tta: R Rdng dBμV	the groun l eading lis T1 T5	ted by ma T2 T6	C, 66% and the PC	T2=Log T4=Cab T6=Hor T8=HP3 T4 T4	331 092 331 092 le #15 12 n Antenr 017A sn Te Dist	2401 20602 na sn6246 13123A00 st Distanc Corr	281 11-Sep e: 3 Meters Spec	t-01 Margin	egrity by			

1	1778.308M	61.3	+0.0	+0.0	+0.0	+0.0	+0.0	52.0	54.0	-2.0	Vert
	Ave		+0.0	+25.6	+3.6	-38.5			Third ortho	ogonal	
									side		
^	1778.308M	62.4	+0.0	+0.0	+0.0	+0.0	+0.0	53.1	54.0	-0.9	Vert
			+0.0	+25.6	+3.6	-38.5			Third ortho	ogonal	
									side		
^	1778.380M	61.5	+0.0	+0.0	+0.0	+0.0	+0.0	52.2	54.0	-1.8	Vert
			+0.0	+25.6	+3.6	-38.5					
4	1778.380M	60.9	+0.0	+0.0	+0.0	+0.0	+0.0	51.6	54.0	-2.4	Vert
	Ave		+0.0	+25.6	+3.6	-38.5					
5	1778.374M	58.9	+0.0	+0.0	+0.0	+0.0	+0.0	49.6	54.0	-4.4	Horiz
			+0.0	+25.6	+3.6	-38.5					
6	5 3556.708M	39.9	+0.0	+0.0	+0.0	+0.0	+0.0	39.9	54.0	-14.1	Vert
			+0.0	+31.2	+6.2	-37.4					
7	800.017M	29.9	+0.0	+21.5	+0.6	+5.7	+0.0	30.1	46.0	-15.9	Horiz
			-27.6	+0.0	+0.0	+0.0					

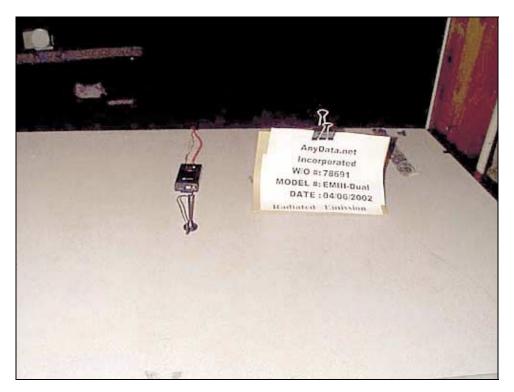


8	131.765M	32.5	+16.4	+0.0	+0.2	+2.1	+0.0	22.8	43.5	-20.7	Horiz
			-28.4	+0.0	+0.0	+0.0					
9	299.505M	26.5	+22.2	+0.0	+0.3	+3.3	+0.0	24.0	46.0	-22.0	Vert
			-28.3	+0.0	+0.0	+0.0					
10	10216.850M	34.5	+0.0	+0.0	+0.0	+0.0	-10.0	31.5	54.0	-22.5	Horiz
			+0.0	+37.5	+9.9	-40.4					
11	972.440M	24.3	+0.0	+24.0	+0.6	+6.6	+0.0	27.7	54.0	-26.3	Vert
			-27.8	+0.0	+0.0	+0.0					

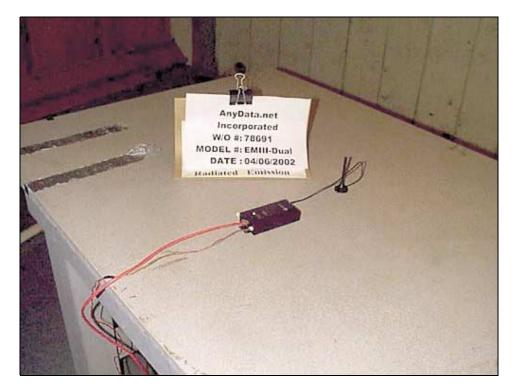
Test Equipment 15.109 (b): OATS

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
30MHz-1000MHz						
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
1 GHz- 18 GHz						
Horn Antenna	0849	EMCO	3115	6246	091201	091202
Microwave Pre-amp	00786	HP	83017A	3123A00281	091201	091202
¹ ⁄4" Heliax Coaxial Cable	NA	Andrew	LDF1-50	Cable#18 (70 ft)	091101	091102
Spectrum Analyzer	01865	HP	8566B	2532A02509	092801	092802
18GHz-20 GHz						
18-26 GHz Horn antenna	1413	BP	RA42-K-F- 4B-C	942126-003	070901	070902
Spectrum Analyzer	01865	HP	8566B	2532A02509	092801	092802
Pre amp	NA	HP	83051A	3331A00238	030502	030503
High Freq cable	NA	WL Gore	purple 65474	purple 65474	011402	011403



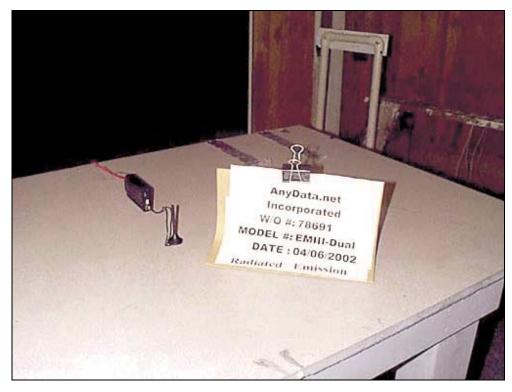


OATS Test Setup - Front View

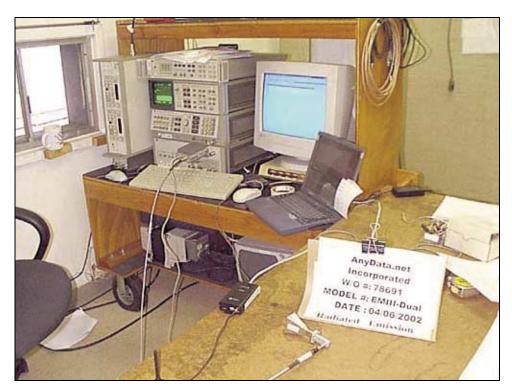


OATS Test Setup - Back View





OATS Test Setup - Side View



Horn Antenna Test Setup