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APPLICANT: UNIDEN AMERICA CORPORATION
FCC ID: AMWUC723

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APPLICANT: UNIDEN AMERICA CORPORATION
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15.214(d) - THIS DEVICE COMPLIES WITH THE SECURITY CODE REQUIREMENTS
OF 15.214(d)(1)(2) AND (3) BY MEANS OF THE FOLLOWING:

This cordless telephone system provides random digital security codes. It
has 65000 Digital Security Codes.

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TEST EQUIPMENT LIST

1. X Spectrum Analyzer: HP 8566B-Opt 462, S/N 3138A07786, w/
preselector HP 85685A, S/N 3221A01400, Quasi-Peak Adapter
HP 85650A, S/N 3303A01690 & Preamplifier HP 8449B-OPT H02,
S/N 3008A00372 Cal. 10/17/99
2. X Biconnical Antenna: Eaton Model 94455-1, S/N 1057
3. Biconnical Antenna: Electro-Metrics Model BIA-25, S/N 1171
4. X Log-Periodic Antenna: Electro-Metrics Model EM-6950, S/N 632
5. Log-Periodic Antenna: Electro-Metrics Model LPA-30, S/N 409
6. X Double-Ridged Horn Antenna: Electro-Metrics Model RGA-180,
1-18 GHz, S/N 2319
7. 18-26.3GHz Systron Donner Standard Gain Horn #DBE-520-20
8. Horn 40-60GHz: ATM Part #19-443-6R
9. Line Impedance Stabilization Network: Electro-Metrics Model
ANS-25/2, S/N 2604 Cal. 2/9/00
10. Temperature Chamber: Tenney Engineering Model TTRC, S/N 11717-7
11. Frequency Counter: HP Model 5385A, S/N 3242A07460 Cal 10/6/99
12. Peak Power Meter: HP Model 8900C, S/N 2131A00545
13. X Open Area Test Site #1-3meters Cal. 12/22/99
14. Signal Generator: HP 8640B, S/N 2308A21464 Cal. 9/23/99
15. Signal Generator: HP 8614A, S/N 2015A07428
16. Passive Loop Antenna: EMC0 Model 6512, 9KHz to 30MHz, S/N
9706-1211 Cal. 6/10/00
17. X Dipole Antenna Kit: Electro-Metrics Model TDA-30/1-4, S/N 153
Cal. 11/24/99
18. AC Voltmeter: HP Model 400FL, S/N 2213A14499 Cal. 9/21/99
19. Digital Multimeter: Fluke Model 8012A, S/N 4810047 Cal 9/21/99
20. Digital Multimeter: Fluke Model 77, S/N 43850817 Cal 9/21/99
21. Oscilloscope: Tektronix Model 2230, S/N 300572 Cal 9/23/99

TEST PROCEDURE

GENERAL: This report shall NOT be reproduced except in full without the written approval of TIMCO ENGINEERING, INC. Shielded interface cables were used in all cases except for cables connecting to the telephone line and the power cords. A test program was run which simulated a normal data transmission on a network.

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-1992 using a 50uH LISN. Both lines were observed. The bandwidth of the spectrum analyzer was 10kHz with an appropriate sweep speed. The ambient temperature of the UUT was 74°F with a humidity of 44%.

BANDWIDTH 6.0dB: The measurements were made with the spectrum analyzer's resolution bandwidth(RBW)=100KHz and the video bandwidth(VBW)=300KHz and the span set as shown on plot.

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TEST PROCEDURES CONTINUED

POWER OUTPUT: The RF power output was measured at the antenna feed point by removing the permanent antenna and connecting the UUT to a peak power meter, HP Model No. 8900C.

ANTENNA CONDUCTED EMISSIONS: The RBW=100KHz, VBW > or = RBW and the spectrum was scanned from 30MHz to the 10th Harmonic of the fundamental.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-1992 using a HEWLETT PACKARD spectrum analyzer with a pre-selector. The bandwidth(RBW) of the spectrum analyzer was 100kHz up to 1GHz and 1.0MHz above 1GHz with an appropriate sweep speed. The VBW above 1.0GHz was = 1.0MHz. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The ambient temperature of the UUT was 74°F with a humidity of 44%.

15.247(d) POWER SPECTRAL DENSITY. The peak within the pass band was located with the RBW set to 30 kHz and a span slightly greater than the 6 dB bandwidth. The peak emission was centered on the display and the span and RBW reduced. With a 1.5 MHz span, 3 kHz RBW, and a sweep time set to 500 seconds the spectral line spacing could not be resolved, so the noise power density method was used. The response was then plotted. A correction factor of 35 dB and any attenuation used was added.

15.247(e): PROCESSING GAIN, This gain is supplied by the manufacturer of the UUT. See Pages 14A-14F.

2.1033(b)(4)

ANTENNA AND GROUND SYSTEM:

This unit uses a short, inductively loaded, antenna element for the base unit and the handset. The antenna is permanently attached to the unit and no provision is made for connection to an external antenna.

No ground connection is provided. The only ground in use is the ground plane on the printed circuit board.

APPLICANT: UNIDEN AMERICA CORPORATION

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DATE: FEBRUARY 20, 2001

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APPLICANT: UNIDEN AMERICA CORPORATION

FCC ID: AMWUC723

NAME OF TEST: POWER LINE CONDUCTED INTERFERENCE

RULES PART NUMBER: 15.207

MINIMUM REQUIREMENTS:	FREQUENCY MHz	LEVEL dBuV
	0.450-30	48 dBuV or 250 uV

TEST PROCEDURE: ANSI STANDARD C63.4-1992

THE HIGHEST EMISSION READ FOR LINE 1 WAS 10.20 uV @ 24.62 MHz.

THE HIGHEST EMISSION READ FOR LINE 2 WAS 21.40 uV @ 21.73 MHz.

THE GRAPHS IN THE NEXT PAGE REPRESENT THE EMISSIONS READ FOR
POWERLINE CONDUCTED FOR THIS DEVICE.

TEST RESULTS: Both lines were observed with the UUT transmitting.
The measurements indicate that the unit DOES appear to meet the FCC
requirements for this class of equipment.

PERFORMED BY: JOE SCOGLIO

DATE: FEBRUARY 20, 2001

APPLICANT: UNIDEN AMERICA CORPORATION

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APPLICANT: UNIDEN AMERICA CORPORATION

FCC ID: AMWUC723

NAME OF TEST: OCCUPIED BANDWIDTH

RULES PART NUMBER: 15.247

15.247(a)(2) 6dB bandwidth shall be at least 500 kHz.

The 6dB points for the base is 1.680 MHz and handset is 1.670 MHz as Shown n the accompanying plots. The bandwidth was measured at three places in the band and the narrowest is reported.

15.247(B) PEAK POWER OUTPUT

The maximum peak output power shall not exceed 1 watt (30 dBm). If directional transmitting antennas with a gain of more than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Both the base and handset have a maximum power output of less than +30 dBm. Power was measured by disconnecting the antennas and measuring across a 50 ohm load as recommended by the manufacturer using a HP peak power meter Model 8900C. The antennas are non directional and do not exceed 6 dBi gain. The power output was measured at three places in the band highest is reported below.

POWER OUTPUT - LIMIT +30 dBm

BASE PEAK POWER OUTPUT = +10.0 dBm or 0.010 Watts
HANDSET PEAK POWER OUTPUT = +8.0 dBm or 0.0065 Watts

APPLICANT: UNIDEN AMERICA CORPORATION

FCC ID: AMWUC723

NAME OF TEST: ANTENNA CONDUCTED SPURIOUS EMISSIONS

RULES PART NUMBER: 15.247(c) Spurious Emissions must be 20dBc.

HANDSET:

BASE:

FREQUENCY MHz	ATTENUATION dBc		FREQUENCY MHz	ATTENUATION dBc
2411.50	0.0		2413.50	0.0
4823.00	75.4		4827.10	69.6
7234.50	72.5		7240.70	75.1
9646.00	79.7		9654.20	92.1
12057.60	94.4		12067.80	88.3
14469.10	99.5		14481.40	93.2
2442.20	0.0		2442.20	0.0
4884.40	77.2		4884.40	71.0
7326.70	72.5		7326.70	78.4
9768.90	78.7		9768.90	102.5
12211.20	79.1		12211.20	98.1
17095.60	95.7		17095.60	95.7
2472.90	0.0		2472.90	0.0
4945.90	75.3		4945.90	72.2
7418.80	71.9		7418.80	83.3
9891.80	81.6		9891.80	103.7
12364.80	89.0		12364.80	103.6
17310.70	100.6			

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APPLICANT: UNIDEN AMERICA CORPORATION
 FCC ID: AMWUC723
 NAME OF TEST: RADIATED SPURIOUS EMISSIONS - HANDSET
 RULES PART NUMBER: 15.247(c)
 REQUIREMENTS: Emissions that fall in the restricted bands (15.205). These emissions must be less than or equal to 500 uV/m (54 dBuV/m). Spurious not in a restricted band must be 20dBc.

Manufacturer supplied a CW test mode for radiated and power output measurements and included a peak to duty cycle/DSSS mode correction factor of -6.02 dB which was applied to the following values.
 Even without the correction factor the unit complies with current rules.

EMISSION FREQUENCY MHz	METER READING 3m dBuV	COAX LOSS dB	ACF dB	Correction Factor dB	FIELD STRENGTH dBuV/m	FCC LIMIT dBuV/m	MARGIN dB	ANT POL
2407.4	78.2	2	29.02	-6.02	103.2	127.34	24.14	V
4814.8	8.6	3.4	33.92	-6.02	39.9	54	14.1	H
7222.2	4.7	5	36.62	-6.02	40.3	83.2	42.9	V
2442.2	77.1	2	29.11	-6.02	102.19	127.34	25.15	V
4884.4	12.7	3.4	33.99	-6.02	44.07	54	9.93	V
7326.7	2.2	5	36.74	-6.02	37.92	54	16.08	H
2477	76.6	2	29.19	-6.02	101.77	127.34	25.57	V
4954.1	16.4	3.4	34.07	-6.02	47.85	54	6.15	V
7431.1	9	5	36.86	-6.02	44.84	54	9.16	H

APPLICANT: UNIDEN AMERICA CORPORATION
 FCC ID: AMWUC723
 NAME OF TEST: RADIATED SPURIOUS EMISSIONS - BASE

EMISSION FREQUENCY <u>MHz</u>	METER READING <u>3m dBuV</u>	COAX LOSS <u>dB</u>	ACF <u>dB</u>	Correction Factor <u>dB</u>	FIELD STRENGTH <u>dBuV/m</u>	FCC LIMIT <u>dBuV/m</u>	MARGIN <u>dB</u>	ANT. <u>POL.</u>
2407.4	77	2	29.02	-6.02	102	127.34	25.34	V
4814.8	12.6	3.4	33.92	-6.02	43.9	54	10.1	V
7222.2	8.6	5	36.62	-6.02	44.2	82	37.8	V
9629.6	2.4	6.3	38.58	-6.02	41.26	82	40.74	V
2442.2	76.6	2	29.11	-6.02	101.69	127.34	25.65	H
4884.4	8.5	3.4	33.99	-6.02	39.87	54	14.13	V
7326.7	1.3	5	36.74	-6.02	37.02	54	16.98	V
2477	77.4	2	29.19	-6.02	102.57	127.34	24.77	V
4954.1	10.9	3.4	34.07	-6.02	42.35	54	11.65	V
7431.1	2.3	5	36.86	-6.02	38.14	54	15.86	V

SAMPLE CALCULATION: $FSdBuV/m = MR(dBuV) + ACFdB + COAX + C.F.$

METHOD OF MEASUREMENT: The procedure used was ANSI STANDARD C63.4-1992. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported. The spectrum was scanned from 30 MHz to 10 GHz using a Hewlett Packard Model 8566B Spectrum Analyzer, Hewlett Packard Model 85685A Preselector, Hewlett Packard Model 85650A Quasi-Peak Adaptor, and an appropriate antenna. Low loss coax was used above 1 GHz. Measurements were made at Timco Engineering, Inc. 849 NW State Road 45 Newberry, FL.

TEST RESULTS: The unit DOES meet the FCC requirements.

PERFORMED BY: Joseph Scoglio

DATE: FEBRUARY 20, 2001

APPLICANT: UNIDEN AMERICA CORPORATION
 FCC ID: AMWUC723
 NAME OF TEST: RADIATED SPURIOUS EMISSIONS INTO ADJACENT RESTRICTED BAND
 REQUIREMENTS: Emissions that fall in the restricted bands (15.205). These emissions must be less than or equal to 500 uV/m (54 dBuV/m).
 TEST PROCEDURE: An in band field strength measurement of the fundamental Emission using the RBW and detector function required by C63.4-2000 and FCC Rules. The procedure was repeated with an average detector and a plot made. The calculated field strength in the adjacent restricted band is presented below.

Handset		Base
-107.3 dBm	from plot	-111.4 dBm
+ 29.21 dB	ACF	+ 29.21 dB
+ 1.1 dB	Coax loss	+ 1.1 dB
- 76.99 dBm		- 81.09 dBm
+107.00		+107.00
30.01 dBuV		25.91 dBuV

APPLICANT: UNIDEN AMERICA CORPORATION

FCC ID: AMWUC723

NAME OF TEST: POWER SPECTRAL DENSITY

RULES PART NUMBER: 15.247(d)

REQUIREMENTS: The power spectral density averaged over any 1 second interval shall not be greater than 8 dBm in any 3 kHz bandwidth within these bands.

TEST DATA:

The spectrum line spacing could not be resolved so the noise power density was measured;

Measurement Method:

Starting from the settings that were used for the 6 dB bandwidth the peak signal was located and the span was reduced and the sweep time increased in a manner to maintain calibration and to keep the peak emission in the display, then once the sweep time reached 500seconds with a 1.5 MHz span the spectrum analyzer was put into the noise power mode and the plots made.

A value of -26.2 dBm was calculated for the handset.

A value of -24.2 dBm was calculated for the base.

Calculations:

BASE:

- 2.4 dBuV - Level from Plot
+ 60.0 dB - Attn.
+ 35.0 dB - Correction Factor
+ 92.6 dBuV
-107.0 dB
- 14.4 dBm

HANDSET:

- 6.2 dBuV - Level from Plot
+ 60.0 dB - Attn.
+ 35.0 dB - Correction Factor
+ 88.8 dBuV
-107.0 dB
- 18.2 dBm

See the following plots.

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