

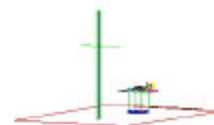


PCTEST Engineering Laboratory, Inc.

6660-B Dobbin Road · Columbia, MD 21045 · U.S.A.

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CERTIFICATE OF COMPLIANCE

UNIDEN AMERICA CORPORATION
Engineering Services Office
216 John Street
P.O. Box 580
Lake City, SC 29560-0580
Attn: Mr. Jim Haynes, Vice President ~
Engineering & Regulatory Affairs

Dates of Tests: Jan. 29-30 & Feb. 26, 2003
Test Report S/N: 15.230116099.A MW
Test Site: PCTEST Lab, Columbia MD

FCC ID

AMWUC797

APPLICANT

UNIDEN AMERICA CORP.

FCC Rule Part(s): § 15.247; ANSI C-63.4 (1992)
Classification: Digital Transmission System (DTS)
Max Output Power: 0.0255 W (14.071 dBm) EIRP (Handset)
0.0509 W (17.071 dBm) EIRP (Base Set)
Method/System: Direct Sequence Spread Spectrum Modulation
Equipment Type: 2.4 GHz Cordless Phone
Frequency Range: 2407.424 – 2477.056 MHz (DTS)
Model No(s): UNIDEN TRU446

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C-63-4.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Grant Notes: Power output is EIRP (0.0509W Base/ 0.0255W Handset). This device has been tested for SAR compliance for head and body-worn configurations. SAR compliance for body-worn operating configurations is limited to the specific belt-clip tested for this filing. End-users must be informed of the operating requirements for satisfying RF exposure compliance.

PCTEST certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.



Alfred Cirwithian
Vice President Engineering

2 2 0 4 0 1 1 4 0 . A 3 L

PCTEST PT. 15.247 REPORT	CERTIFICATION REPORT		Reviewed By: Quality Manager
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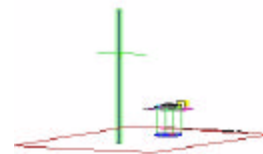
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MEASUREMENT REPORT



Scope - Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.



§2983(a) General Information

Applicant Name:	UNIDEN AMERICA CORPORATION
Address:	Engineering Services Office 216 John Street, P.O.Box 580 Lake City, SC 29560-0580
Attention:	Mr. Jim Hayes, Vice President - Engineering & Regulatory Affairs

- FCC ID: **AMWUC797**
- Class: Digital Transmission System (DTS)
- Type: 2.4 GHz Cordless Phone
- Freq. Range: 2407.424 – 2477.056 MHz (DTS)
- Method/System: TDD
- Model No(s): **UNIDEN TRU446**
- Max. RF Output Power: 0.0255 W (14.071 dBm) EIRP (Handset)
0.0509 W (17.071 dBm) EIRP (Base Set)
- Rule Part(s): § 15.247
- Dates of Tests: Jan. 29-30 & Feb. 26, 2003
- Place of Tests: PCTEST Lab, Columbia, MD U.S.A.
- Test Report S/N: 230116099.AMW

NOTE: The receiver portion was tested and complies with Part 15B under the verification procedure.

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INTRODUCTION

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-1992) and FCC Public Notice dated July 12, 1995 entitled "Guidance on Measurement for Direct Sequence Spread Spectrum Systems" were used in the measurement of **Uniden Digital Transmission System 2.4 GHz DTS Cordless Phone**.

These measurement tests were conducted at **PCTEST Engineering Laboratory, Inc.** facility in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N latitude and 76° 49'38" W longitude. The facility is 1.5 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4 on October 19, 1992.

PCTEST Location

The map at right shows the location of the PCTEST Lab, its proximity to the FCC Lab, the Columbia vicinity area, the Baltimore-Washington International (BWI) airport, and the city of Baltimore, and the Washington, D.C. area. (see Figure1).

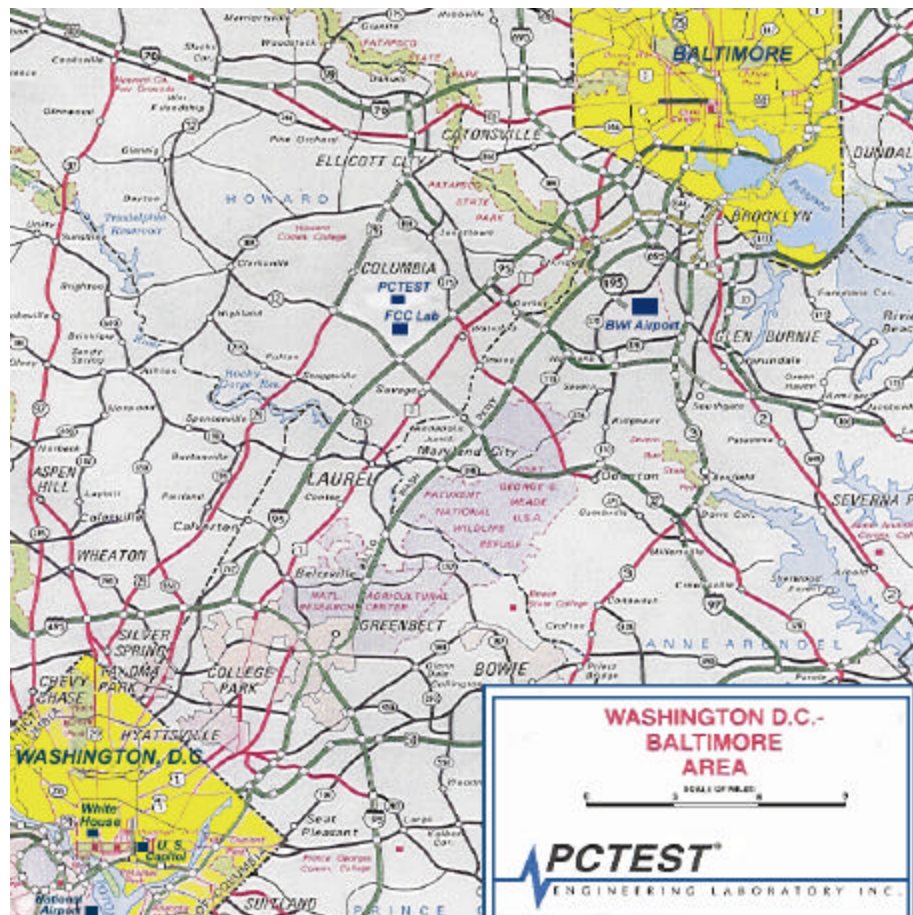


Figure 1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area.

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PRODUCT INFORMATION

Table # 1: Channel Frequency Table

CH	Frequency	CH	Frequency	CH	Frequency	CH	Frequency
1	2407.424 MHz	11	2427.904 MHz	21	2448.384 MHz	31	2468.864 MHz
2	2409.472 MHz	12	2429.952 MHz	22	2450.432 MHz	32	2470.912 MHz
3	2411.520 MHz	13	2432.000 MHz	23	2452.480 MHz	33	2472.960 MHz
4	2413.568 MHz	14	2434.096 MHz	24	2454.576 MHz	34	2475.008 MHz
5	2415.616 MHz	15	2436.096 MHz	25	2456.576 MHz	35	2477.056 MHz
6	2417.664 MHz	16	2438.144 MHz	26	2458.624 MHz		
7	2419.712 MHz	17	2440.192 MHz	27	2460.672 MHz		
8	2421.760 MHz	18	2442.240 MHz	28	2462.720 MHz		
9	2423.808 MHz	19	2444.288 MHz	29	2464.768 MHz		
10	2425.856 MHz	20	2446.336 MHz	30	2466.816 MHz		

Duplexing:

This Device can communicate by using Time Division Duplexing. It uses same Frequency in both transmission and reception. It has 2.25 msec time frame of one transmission and reception cycle. This frame signal is generated by SS Chip and is provided to all other circuits.

Control:

The Base Band ASIC (include CPU) controls the RF frequency channel, the antenna switch for diversity antenna (Base only), ADPCM CODEC, and audio signal switching also set up the spreading code. Beofre established the communication link. This DEVICE searches vacant RF channel and then transmits RF signal at the vacant channel. The ASIC generates a random security code out of 65510 codes, which can protect customer's privacy.

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PRODUCT INFORMATION

Security Codes and DTS Descriptions

Digital Security Codes:

65510 Digital Security Code: This cordless telephone system provides the random digital security code.

Equipment Description:

This device is a telephone terminal device that is designed for voice operation in a similar fashion to an ordinary residential or business telephone without the inconvenience and restraint of a handset cord. This device consists of a base unit and a handset. The base unit is intended to connect to standard telephone modular jacks and is supplied electric power from a standard AC power line by using with the AC Adapter. The handset is powered from an internal rechargeable battery pack.

This device operates by means of a full duplex radio frequency Tx/Rx system in 2407 – 2478 MHz band with Spread Spectrum Technology. These radio frequency systems operate in accordance with Part 15 of the FCC rules. This device has been specifically designed to comply with the requirements set forth in Part 68 of the FCC rules as well as the Part 15 requirements. The specifications are below:

General:

Modulation: Direct Sequence Spread Spectrum Modulation
Operating Temperature: 0 deg. C to +50 deg. C
Security Codes: 65510 Codes

Base Unit:
Frequency Band: 2407 MHz to 2478 MHz
Power Requirements: 9V DC 350mA (Use with AC Adapter)

Handset:
Frequency Bands: 2407 MHz to 2478 MHz
Power Requirements: 3.6V DC (Rechargeable NiMH Battery)

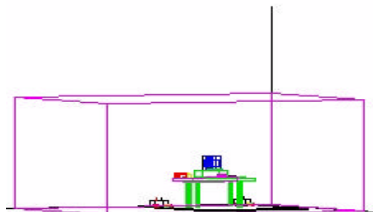
Specifications:

Item:	Specification:
Frequency	2407 –2478 MHz
Channel	35
Channel Separation	2.048 MHz
Spread Spectrum Method	Direct Sequence (FSK)
Chip Rate	1.365 Mbps
RF Output Power	+14 dBm (Peak)
Duplexing	Time Division Duplex
Burst Frame	2.25 msec
Voice Coding	ADPCM
Power Supply	3.6VDC (H/S)/ 120VAC (B/S)
Operating Temperature	0 to 50 deg. C

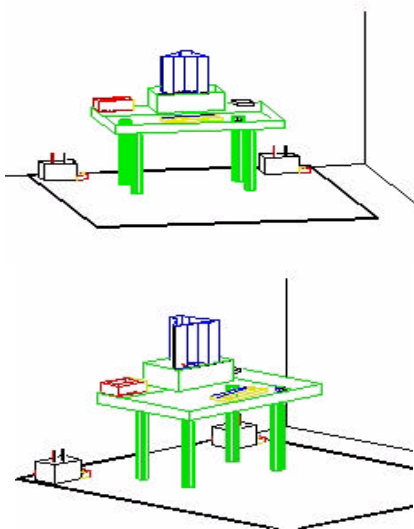
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Description of Tests

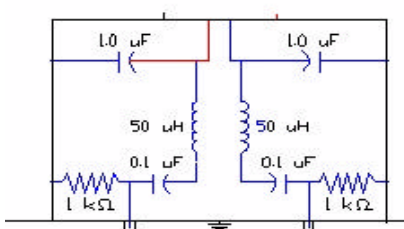
Conducted Emissions



**Figure 1. Shielded Enclosure
Line-Conducted Test Facility**



**Figure 3. Wooden Table &
Bonded LISNs**



**Figure 4. LISN Schematic
Diagram**

The line-conducted facility is located inside a 16'x20'x10' shielded enclosure. It is manufactured by Ray Proof Series 81 (see Figure 2).

The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-6. A 1m. x 1.5m. wooden table 80cm. high is placed 40cm. away from the vertical wall and 1.5m away from the side wall of the shielded room (see Figure 3). Solar Electronics and EMCO Model 3725/2 (10kHz-30MHz) 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room (see Figure 4). The EUT is powered from the Solar LISN and the support equipment is powered from the EMCO LISN. Power to the LISNs are filtered by a high-current high-insertion loss Ray Proof power line filters (100dB 14kHz-10GHz). The purpose of the filter is to attenuate ambient signal interference and this filter is also bonded to the shielded enclosure. All electrical cables are shielded by braided tinned copper zipper tubing with inner diameter of 1/2". If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply lines will be connected to the Solar LISN. LISN schematic diagram is shown in Figure 5. All interconnecting cables more than 1 meter were shortened by non-inductive bundling (serpentine fashion) to a 1-meter length. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT. The spectrum was scanned from 450kHz to 30MHz with 20 msec. sweep time. The frequency producing the maximum level was reexamined using EMI/ Field Intensity Meter and Quasi-Peak adapter. The detector function was set to CISPR quasi-peak mode. The bandwidth of the receiver was set to 10 kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission. Each emission was maximized by: switching power lines; varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in Appendix C. Each EME reported was calibrated using the HP8640B signal generator.

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Description of Tests (Continued)

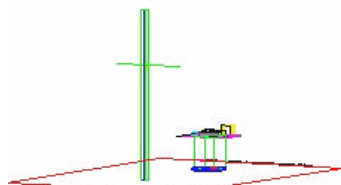


Figure 5. 3-Meter Test Site

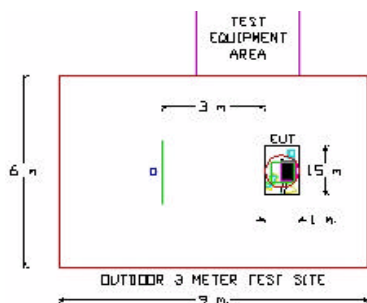


Figure 6. Dimensions of Outdoor Test Site

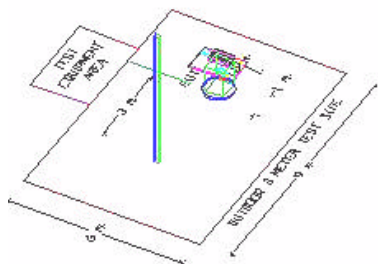


Figure 7. Turntable and System Setup

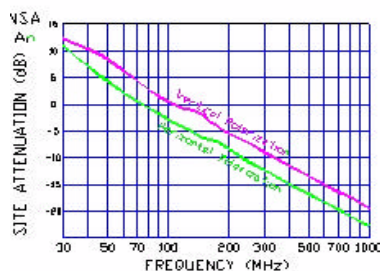


Figure 8. Normalized Site Attenuation Curves (H&V)

Radiated Emissions

Preliminary measurements were made indoors at 1 meter using broadband antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, turntable azimuth with respect to the antenna were noted for each frequency found. The spectrum was scanned from 30 to 200 MHz using biconical antenna and from 200 to 1000 MHz using log-spiral antenna. Above 1 GHz, linearly polarized double ridge horn antennas were used.

Final measurements were made outdoors at 3-meter test range using Roberts™ Dipole antennas or horn antenna (see Figure 6). The test equipment was placed on a wooden and plastic bench situated on a 1.5 x 2 meter area adjacent to the measurement area (see Figure 7). Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined and investigated using EMI/Field Intensity Meter and Quasi-Peak Adapter. The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 100kHz or 1 MHz depending on the frequency or type of signal.

The half-wave dipole antenna was tuned to the frequency found during preliminary radiated measurements. The EUT, support equipment and interconnecting cables were re-configured to the set-up producing the maximum emission for the frequency and were placed on top of a 0.8-meter high non-metallic 1 x 1.5 meter table (see Figure 8). The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each EME emission. The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Each emission was maximized by: varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in Appendix C. Each EME reported was calibrated using the HP8640B signal generator. The Theoretical Normalized Site Attenuation Curves for both horizontal and vertical polarization are shown in Figure 9.

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§ 15.205 Restricted Bands

Special attention is made for the EUT's harmonic and spurious radiated emission in the restricted bands of operation. The EUT was tested from 9kHz and up to the tenth harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average measurements was used using RBW 1 MHz – VBW 10Hz and linearly polarized horn antennas. In addition, peak measurements were taken to ensure that the peak levels are not more than 20dB above the average limit. All out of band emissions, other than those created by the spreading sequence, data sequence, and the carrier modulation must not exceed the limits show in Table 2 per 15.209.

Frequency (MHz)	F/S (UV/m)	Meas. Dist. (Meters)
0.009-0.490	2400/F (kHz)	300
0.490-1.705	24000/F (kHz)	30
1.705-30.00	30	30
30.0-88.0	100	3
88.0-216.0	150	3
216.0-960.0	200	3
Above 960	500	3

Tab. 2. Radiated Emission Limits Per 15.209

Test Equipment

HP 8566B	Spectrum Analyzer 100Hz-22GHz
HP83017A	Microwave Analyzer 40dB Gain (0.5 – 26.5 GHz)
HP 3784A	Digital Transmission Analyzer
EMCO 3115	Horn Antenna (1 – 18GHz)
HP 8495A	20dB Attenuator (DC-40GHz) 0-70dB
HP 8493B	10dB Attenuator
MicroCoax Cables	Low Loss Microwave Cables (1-26.5 GHz)
CDI Dipoles	Dipole Antennas (30 – 1000 MHz)

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§ 15.203 Antenna Requirement

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the applicant can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with this requirement.

The Uniden Base/ Handset **AMWUC797** unit complies with the requirement of §15.203. Both antennas are **permanently attached omni-directional antenna**.

CONCLUSION

There are no provisions for connection to an external antenna. The unit meets the Antenna Requirements of §15.203.

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Description of Tests (Continued)

§15.247(a)(2) – 6dB Bandwidth (Handset)

Res. Bandwidth = 100 kHz (7dB/div)
 Vid. BW = 100 kHz
 Span = 10 MHz
 Ref. Level 9 dBm
 Sweep 4.0ms
 (see attached spectrum plots)

FREQ (MHz)	Channel	6dB Bandwidth (MHz)
2407.424	1	1.90
2442.240	18	1.88
2477.056	35	1.88

Table 3. 6dB Bandwidth measurements

Minimum Standard – The transmitter shall have a minimum 6dB bandwidth of 500Hz (0.5 MHz).
 These are radiated measurements.

REMARKS:

PASS

Description of Tests (Continued)

§15.247(a)(2) – 6dB Bandwidth (Baseset)

Res. Bandwidth = 100 kHz (7dB/div)
 Vid. BW = 100 kHz
 Span = 10 MHz
 Ref. Level 9 dBm
 Sweep 4.0ms
 (see attached spectrum plots)

FREQ (MHz)	Channel	6dB Bandwidth (MHz)
2407.424	1	1.95
2442.240	18	1.93
2477.056	35	1.80

Table 3. 6dB Bandwidth measurements

Minimum Standard – The transmitter shall have a minimum 6dB bandwidth of 500Hz (0.5 MHz).
 These are radiated measurements.

REMARKS:

PASS

Description of Tests (Continued)

Maximum Peak Output Power (Handset)

Minimum Standard – The maximum peak output power of the transmitter shall not exceed 1 watt. Radiated power measurements were taken with a power meter.

Max. Power Peak + Atten = dBm $\Rightarrow$ Watts

FREQ (MHz)	Channel	Power Output (dBm)	Power Output (mW)
2407.424	1	14.07	25.53
2442.240	18	13.77	23.83
2477.056	35	12.37	17.26

Table 4. Output Power Measurements

Minimum Standard – The transmitter peak output power of the transmitter shall not exceed 1 watt. (+30 dBm)

REMARKS:

PASS

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Description of Tests (Continued)

Maximum Peak Output Power (Baset)(Ant. #1)

Minimum Standard – The maximum peak output power of the transmitter shall not exceed 1 watt. Radiated power measurements were taken with a power meter.

Max. Power Peak + Atten = dBm $\Rightarrow$ Watts

FREQ (MHz)	Channel	Power Output (dBm)	Power Output (mW)
2407.424	1	15.87	38.64
2442.240	18	16.97	49.79
2477.056	35	17.07	50.94

Table 4. Output Power Measurements

Minimum Standard – The transmitter peak output power of the transmitter shall not exceed 1 watt. (+30 dBm)

REMARKS:

PASS

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Description of Tests (Continued)

Maximum Peak Output Power (Basetest)(Ant. #2)

Minimum Standard – The maximum peak output power of the transmitter shall not exceed 1 watt. Radiated power measurements were taken with a power meter.

Max. Power Peak + Atten = dBm $\Rightarrow$ Watts

FREQ (MHz)	Channel	Power Output (dBm)	Power Output (mW)
2407.424	1	14.47	27.99
2442.240	18	14.97	31.41
2477.056	35	15.07	32.14

Table 4. Output Power Measurements

Minimum Standard – The transmitter peak output power of the transmitter shall not exceed 1 watt. (+30 dBm)

REMARKS:

PASS

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Description of Tests (Continued)

§15.247(b) Maximum Power Density (Handset)

Minimum Standard – The maximum peak output power of the transmitter shall not exceed +8dBm.

Res. Bandwidth = 3 kHz (7dB/div)
 Vid. BW = 3 kHz
 Span = 3.0 MHz
 Ref. Level 13.0 dBm
 Sweep 1000sec.

Max. Power Peak + Atten = dBm $\Rightarrow$ Watts

FREQ (MHz)	Channel	Power Output (dBm)
2407.424	1	- 0.247
2442.240	18	1.959
2477.056	35	- 0.152

Table 4. Output Power Measurements

Minimum Standard – The transmitter peak output power of the transmitter shall not exceed +8 dBm. These are conducted measurements.

REMARKS:

PASS

Description of Tests (Continued)

§15.247(b) Maximum Power Density (Basetest)

Minimum Standard – The maximum peak output power of the transmitter shall not exceed +8dBm.

Res. Bandwidth = 3 kHz (7dB/div)
 Vid. BW = 3 kHz
 Span = 3.0 MHz
 Ref. Level 13.0 dBm
 Sweep 1000sec.

Max. Power Peak + Atten = dBm $\Rightarrow$ Watts

FREQ (MHz)	Channel	Power Output (dBm)
2407.424	1	0.614
2442.240	18	2.440
2477.056	35	0.243

Table 4. Output Power Measurements

Minimum Standard – The transmitter peak output power of the transmitter shall not exceed +8 dBm. These are conducted measurements.

REMARKS:

PASS

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RADIATED Measurements (CONT.)

Fundamental & Harmonics (Handset)

A. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 1

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QP/AVG	F/S (μ V/m)	F/S (dB μ V/m)	Margin (dB)
2407.42	- 30.4	32.70	V	Peak	291743.00	109.30	n/a
4814.84	- 101.2	40.39	V	Peak	203.94	46.19	7.81
7222.26	- 120.0	47.42	V	Peak	25.60	34.42	19.58
9629.68	< - 135						
12037.10	< - 135						

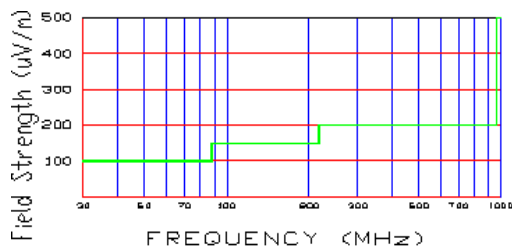


Figure 10. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < - 135 are below the analyzer floor level.

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RADIATED Measurements (CONT.)

Fundamental & Harmonics (Handset)

B. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 18

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QPI/AVG	F/S (μ V/m)	F/S (dB μ V/m)	Margin (dB)
2442.24	- 30.8	32.8	V	Peak	281838.00	109.0	n/a
4884.48	- 100.8	40.5	V	Peak	216.27	46.7	7.3
7326.72	- 119.5	48.0	V	Peak	59.57	35.5	18.5
9768.96	< - 135						
12211.20	< - 135						

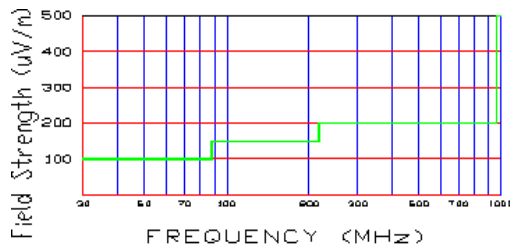


Figure 11. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < - 135 are below the analyzer floor level.

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RADIATED Measurements (CONT.)

Fundamental & Harmonics (Handset)

C. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 35

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QI/AVG	F/S (μ V/m)	F/S (dB μ V/m)	Margin (dB)
2477.06	- 32.3	32.9	V	Peak	239883.00	107.6	n/a
4954.12	- 101.0	40.7	V	Peak	215.77	46.7	7.3
7431.18	- 120.1	48.2	V	Peak	56.88	35.1	18.9
9908.24	< - 135						
12385.30	< - 135						

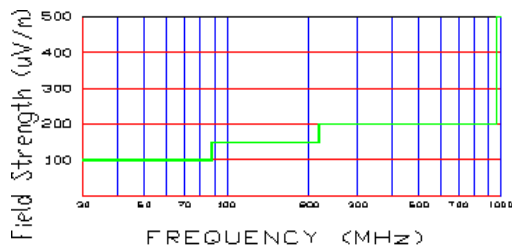


Figure 12. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 μ V/m (54dBu/m)

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < - 135 are below the analyzer floor level.

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RADIATED Measurements (CONT.)

Fundamental & Harmonics (Basetest) (Ant. #1)

A. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 1

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QP/AVG	F/S (μ V/m)	F/S (dB μ V/m)	Margin (dB)
2407.42	- 28.6	32.7	V	Peak	358922.00	111.1	n/a
4814.84	- 99.2	40.4	V	Peak	256.74	48.2	5.8
7222.26	- 117.4	47.4	V	Peak	70.96	37.0	17.0
9629.68	< - 135						
12037.10	< - 135						

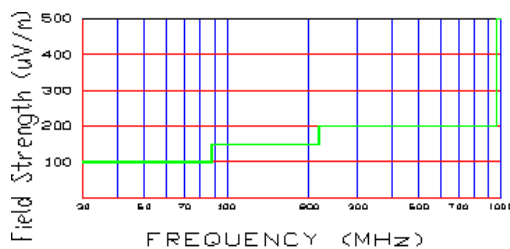


Figure 13. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < - 135 are below the analyzer floor level.

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RADIATED Measurements (CONT.)

Fundamental & Harmonics (Basetest) (Ant. #1)

B. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 18

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QPI/AVG	F/S (μ V/m)	F/S (dB μ V/m)	Margin (dB)
2442.24	- 27.6	32.8	V	Peak	407380.00	112.2	n/a
4884.48	- 99.8	40.5	V	Peak	242.66	47.7	6.3
7326.72	- 118.1	48.0	V	Peak	69.98	36.9	17.1
9768.96	< - 135						
12211.20	< - 135						

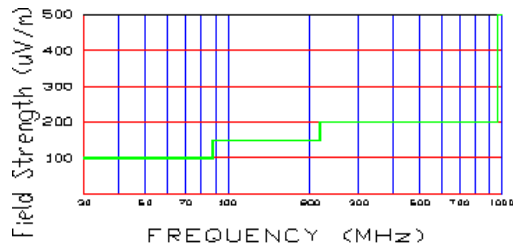


Figure 14. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < - 135 are below the analyzer floor level.

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RADIATED Measurements (CONT.)

Fundamental & Harmonics (Basetest) (Ant. #1)

C. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 35

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QP/AVG	F/S (μ V/m)	F/S (dB μ V/m)	Margin (dB)
2477.06	- 27.6	32.9	V	Peak	412098.00	112.3	n/a
4954.12	- 99.8	40.7	V	Peak	248.31	47.9	6.1
7431.18	- 118.7	48.2	V	Peak	66.83	36.5	17.5
9908.24	< - 135						
12385.30	< - 135						

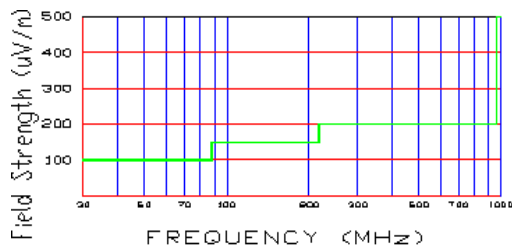


Figure 15. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 μ V/m (54dBu/m)

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < - 135 are below the analyzer floor level.

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RADIATED Measurements (CONT.)

Fundamental & Harmonics (Basetest) (Ant. #2)

A. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 1

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QP/AVG	F/S (μ V/m)	F/S (dB μ V/m)	Margin (dB)
2407.42	- 30.0	32.7	V	Peak	305492.00	109.7	n/a
4814.84	- 100.1	40.4	V	Peak	231.47	47.3	6.7
7222.26	- 119.4	47.4	V	Peak	56.36	35.0	19.0
9629.68	< - 135						
12037.10	< - 135						

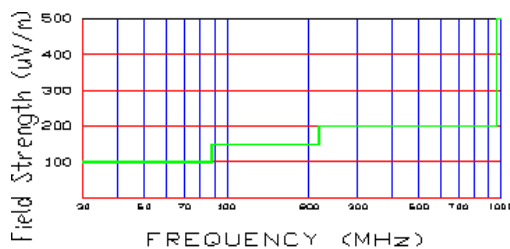


Figure 16. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < - 135 are below the analyzer floor level.

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RADIATED Measurements (CONT.)

Fundamental & Harmonics (Basetest) (Ant. #2)

B. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 18

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QPI/AVG	F/S (μ V/m)	F/S (dB μ V/m)	Margin (dB)
2442.24	- 29.6	32.8	V	Peak	323594.00	110.2	n/a
4884.48	- 100.5	40.5	V	Peak	223.87	47.0	7.0
7326.72	- 119.1	48.0	V	Peak	62.38	35.9	18.1
9768.96	< - 135						
12211.20	< - 135						

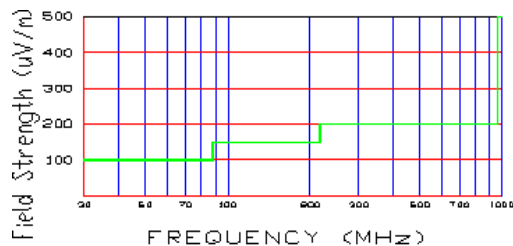


Figure 17. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < - 135 are below the analyzer floor level.

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RADIATED Measurements (CONT.)

Fundamental & Harmonics (Baset) (Ant. #2)

C. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 35

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QI/AVG	F/S (μ V/m)	F/S (dB μ V/m)	Margin (dB)
2477.06	- 29.6	32.9	V	Peak	327341.00	110.3	n/a
4954.12	- 101.3	40.7	V	Peak	208.93	46.4	7.6
7431.18	- 119.9	48.2	V	Peak	58.21	35.3	18.7
9908.24	< - 135						
12385.30	< - 135						

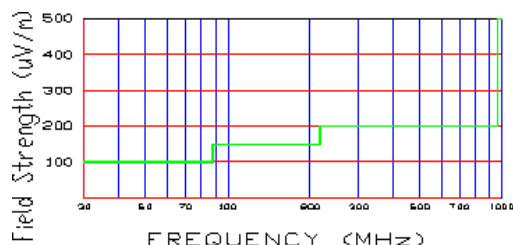


Figure 18. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 μ V/m (54dBu/m)

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < - 135 are below the analyzer floor level.

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RADIATED Measurements (CONT.)

Restricted Band (Uniden Handset)

Transmitter Portion

Operating Frequency: 2477 MHz
 Distance of Measurements: 3 meters
 Channel(s): 35

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QP/AVG	F/S (μ V/m)	F/S (dB μ V/m)	Margin (dB)
2483.7	- 107.5	33.0	V	Peak	42.17	32.5	21.5
2488.0	- 106.0	33.0	V	Peak	50.12	34.0	20.0
2489.4	- 108.6	33.1	V	Peak	37.58	31.5	20.0
2486.0	- 112.4	33.1	V	Peak	24.27	27.7	26.3
2493.7	- 118.0	33.2	V	Peak	12.88	22.2	31.8
2496.0	- 126.4	33.2	V	Peak	4.90	13.8	40.2

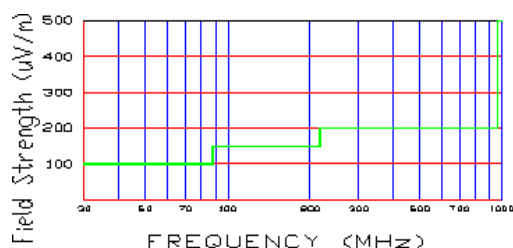


Figure 19. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < - 135 are below the analyzer floor level.

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RADIATED Measurements (CONT.)

Restricted Band (Uniden Baseset)

Transmitter Portion

Operating Frequency: 2477 MHz

Distance of Measurements: 3 meters

Channel(s): 35

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QI/AVG	F/S (μV/m)	F/S (dBμV/m)	Margin (dB)
2483.7	- 108.3	33.0	V	Peak	38.46	31.7	22.3
2488.2	- 108.2	33.0	V	Peak	38.90	31.8	22.2
2489.4	- 110.0	33.1	V	Peak	31.99	30.1	22.2
2486.0	- 113.5	33.1	V	Peak	21.38	26.6	27.4
2493.7	- 120.0	33.2	V	Peak	10.23	20.2	33.8
2496.0	- 127.3	33.2	V	Peak	4.42	12.9	41.1

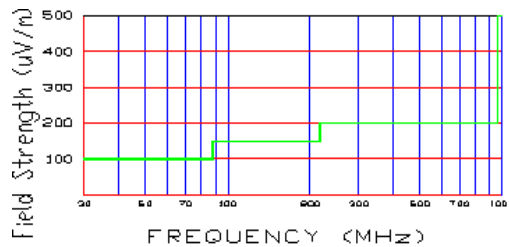


Figure 20. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < - 135 are below the analyzer floor level.

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RADIATED Measurements (CONT.)

Spurious Data (Handset)

Transmitter Portion

Distance of Measurements: 3 meters

Channels: 35

FREQ. (MHz)	Level* (dBm)	AFCL** (dB)	POL (H/V)	Height (m)	Azimuth (° angle)	F/S (μ V/m)	Margin*** (dB)
86.4	- 86.10	8.2	V	2.9	30	28.6	- 10.9
110.6	- 84.75	10.7	V	2.7	45	44.2	- 10.6
166.1	- 86.86	14.7	H	2.3	315	55.0	- 8.7
172.3	- 86.31	13.3	H	2.3	345	50.2	- 9.5
203.8	- 89.47	16.7	V	1.8	180	51.3	- 9.3
240.51	- 87.56	18.4	H	1.5	200	77.7	- 8.2

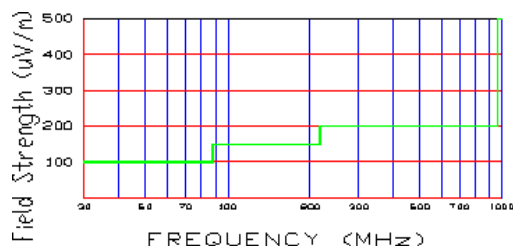


Figure 21. Restricted band harmonics and spurious limits.

NOTES:

1. All emissions were investigated and the worst case emissions are reported
2. For hand-held devices, the EUT is rotated through three orthogonal axis to determine which configuration produces the maximum emissions
3. The EUT is supplied with the minimal AC voltage or/and a new/fully recharged battery.
4. The EUT was tested up to the 10th harmonic (9.3 GHz) and no significant emission was found.

Above 1 GHz limit is 500 uV/m (54dBu/m)

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RADIATED Measurements (CONT.)

Spurious (Base Set)

Transmitter Portion

Distance of Measurements: 3 meters

Channels: 35

FREQ. (MHz)	Level* (dBm)	AFCL** (dB)	POL (H/V)	Height (m)	Azimuth (° angle)	F/S (μV/m)	Margin*** (dB)
110.7	- 85.4	10.7	V	2.7	45	41.3	- 11.2
147.7	- 86.8	13.5	V	2.7	60	48.5	- 9.8
153.6	- 86.1	13.9	V	2.4	315	55.0	- 8.7
197.0	- 90.5	16.4	H	2.2	90	44.2	- 10.6
246.5	- 89.2	18.6	V	1.5	200	66.1	- 9.6
259.3	- 89.4	19.1	H	1.4	190	68.4	- 9.3

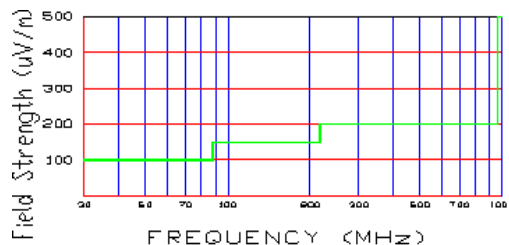


Figure 22. Restricted band harmonics and spurious limits.

NOTES:

1. All emissions were investigated and the worst case emissions are reported
2. For hand-held devices, the EUT is rotated through three orthogonal axis to determine which configuration produces the maximum emissions
3. The EUT is supplied with the minimal AC voltage or/and a new/fully recharged battery.
4. The EUT was tested up to the 10th harmonic (9.3 GHz) and no significant emission was found.

Above 1 GHz limit is 500 uV/m (54dBu/m)

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TEST EQUIPMENT

Type	Model	Cal. Due Date	S/N
Microwave Spectrum Analyzer	HP 8566B (100Hz-22GHz)	12/05/03	3638A08713
Microwave Spectrum Analyzer	HP 8566B (100Hz-22GHz)	04/17/03	2542A11898
Spectrum Analyzer/Tracking Gen.	HP 8591A (9kHz-1.8GHz)	06/02/03	3144A02458
Spectrum Analyzer	HP 8591A (9kHz-1.8GHz)	10/15/03	3108A02053
Spectrum Analyzer	HP 8594A (9kHz-2.9GHz)	11/02/03	3051A00187
Signal Generator*	HP 8640B (500Hz-1GHz)	06/02/03	2232A19558
Signal Generator*	HP 8640B (500Hz-1GHz)	06/02/03	1851A09816
Signal Generator*	Rohde & Schwarz (0.1-1000MHz)	09/11/03	894215/012
Ailtech/Eaton Receiver	NM 37/57A-SL (30-1000MHz)	04/12/03	0792-03271
Ailtech/Eaton Receiver	NM 37/57A (30-1000MHz)	03/11/03	0805-03334
Ailtech/Eaton Receiver	NM17/27A (0.1-32MHz)	09/17/03	0608-03241
Quasi-Peak Adapter	HP 85650A	08/09/03	2043A00301
Ailtech/Eaton Adapter	CCA-7 CISPR/ANSI QP Adapter	03/11/03	0194-04082
RG58 Coax Test Cable	No.167		n/a
Harmonic/Flicker Test System	HP 6841A (IEC 555-2/3)		3531A00115
Broadband Amplifier (2)	HP 8447D		1145A00470, 1937A03348
Broadband Amplifier	HP 8447F		2443A03784
Transient Limiter	HP 11947A (9kHz-200MHz)		2820A00300
Horn Antenna	EMCO Model 3115 (1-18GHz)		9704-5182
Horn Antenna	EMCO Model 3115 (1-18GHz)		9205-3874
Horn Antenna	EMCO Model 3116 (18-40GHz)		9203-2178
Biconical Antenna (4)	Eaton 94455/Eaton 94455-1/Singer 94455-1/Compliance Design	1295, 1332, 0355	
Log-Spiral Antenna (3)	Ailtech/Eaton 93490-1	0608, 1103, 1104	
Roberts Dipoles	Compliance Design (1 set) A100	5118	
Ailtech Dipoles	DM-105A (1 set)	33448-111	
EMCO LISN (2)	3816/2	1077, 1079	
EMCO LISN	3725/2	2009	
Microwave Preamplifier 40dB Gain	HP 83017A (0.5-26.5GHz)		3123A00181
Microwave Cables	MicroCoax (1.0-26.5GHz)		
Ailtech/Eaton Receiver	NM37/57A-SL		0792-03271
Spectrum Analyzer	HP 8591A		3034A01395
Modulation Analyzer	HP 8901A		2432A03467
NTSC Pattern Generator	Leader 408		0377433
Noise Figure Meter	HP 8970B		3106A02189
Noise Figure Meter	Ailtech 7510		TE31700
Noise Generator	Ailtech 7010		1473
Microwave Survey Meter	Holaday Model 1501 (2.450GHz)		80931
Digital Thermometer	Extech Instruments 421305		426966
Attenuator	HP 8495A (0-70dB) DC-4GHz		
Bi-Directional Coax Coupler	Narda 3020A (50-1000MHz)		
Shielded Screen Room	RF Lindgren Model 26-2/2-0		6710 (PCT270)
Shielded Semi-Anechoic Chamber	Ray Proof Model S81		R2437 (PCT278)
Environmental Chamber	Associated Systems Model 1025 (Temperature/Humidity)		PCT285

* Calibration traceable to the National Institute of Standards and Technology (NIST).

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Conclusion

The data collected shows that the **Uniden 2.4 GHz DTS Cordless Phone FCC ID: AWMUC797** complies with Part 15C of the FCC Rules.

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