

TEST NUMBER - 279-04

TEST REPORT TO

INDUSTRY CANADA RSS 210 SECTION 6.2.2(m2)  
FEDERAL COMMUNICATIONS COMMISSION CFR47 PART15.249

Low Power License-Exempt Radio communication Device  
Intentional Radiator

for

T.J.Wisemen, Inc.  
6600 W.Rogers Circle, Suite 1  
Boca Raton, FL 33487  
(561) 241-3131

of

Fart Machine 900 MHz

RCFM2222

FCC ID: Q8L-TJW900T  
IC:5223A-TJ900T

on

7/6/2004

Tested by

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Andrew Mertinooke

Reviewed by

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Clifton P. Brick

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TEST DESCRIPTION

1. TEST OBJECTIVE

To test the Fart Machine 900 MHz, Model RCFM2222 to RSS  
210 / Part 15 Subpart C Rules and write a report.

2. E.U.T. DESCRIPTION

GENERAL

The Fart Machine 900 MHz, Model RCFM2222 is a gag  
product which allows the user to remotely create a fart  
sound.

SERIAL NUMBERS:

Pre-Production Prototype

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### TEST RESULTS AND CONCLUSIONS

PRODUCT TESTED - Fart Machine 900 MHz

MODEL NUMBER - RCFM2222

#### RADIATED TEST RESULTS

The test results show that the emissions radiated from this equipment are in compliance with IC Rules RSS 210 / FCC Rules Part 15 Subpart C.

#### OCCUPIED BANDWIDTH & OUTPUT POWER

The test results show that the occupied bandwidth and output power of this equipment are in compliance with IC Rules RSS 210 / FCC Rules Part 15 Subpart C .

#### CONDUCTED TEST RESULTS

The test results show that the emissions conducted through the power line from this equipment are in compliance with IC Rules RSS 210 / FCC Rules Part 15 Subpart C.

#### ANALYSIS AND CONCLUSIONS

Based upon the radiated and conducted measurements we find that this equipment is within the limits of the IC Rules RSS 210 / FCC Rules Part 15 Subpart C. All results are based on a test of one sample, and represent other production units, only in as much as a sample represents other production units. If any significant changes are made to the unit, the changes shall be evaluated and a retest may be required.

**NOTES** (Special conditions unique to this test)

None.

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## TEST PROCEDURES

### 1. TEST EQUIPMENT

- A. HP 8546A (9 kHz - 6.5 GHz) EMI Receiver w/ RF Filter Section, S/N 3704A00323 / 3650A00360. Calibration Date 1-16-2004, calibrated annually.
- B. HP 8593E (9 kHz - 26.5 GHz) Spectrum Analyzer, S/N 3829A03887. Calibration Date 11-21-2003, calibrated annually.
- B. Com-Power Biconilog Antenna, Model AC220, S/N 25509. Calibration Date 7-17-2003, calibrated annually.
- C. Electro-Metrics Double Ridged Guide Antenna, Model EM-6961, S/N 6337. Calibration Date: 7-30-2004, calibrated annually.
- D. HP 1 - 26.5 GHz Preamplifier, Model 08449B, S/N 3008A01323. Calibration Date: 6-30-2004, calibrated annually.
- E. EMCO LISN, Model EM 3825/2, S/N 9109-1860. Calibration Date: 3-10-2004, calibrated annually.

### 2. FREQUENCY RANGE TO BE SCANNED.

- A. Radiated Test from 30 MHz to 40 GHz (or the 10<sup>th</sup> harmonic of the highest frequency whichever is lower).
- B. Conducted Test from 150 kHz to 30 MHz.

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### 3. TEST PROCEDURES.

#### **Radiated test procedure:**

The EUT, associated cables and peripheral devices are placed on the supporting table and any support equipment is placed off the site. The EUT is turned on and any necessary operating or test software installed and allowed to warm up. The EUT is pre-scanned in our ferrite tile lined chamber where it is rotated 360 degrees and examined in both horizontal and vertical polarization, all emission frequencies are identified and recorded. The EUT is then moved to the OATS and the frequency band from 30 MHz to 40 GHz is scanned, all frequencies identified in the chamber are investigated, as well as harmonic frequencies of the EUT. When an emission is found the emission is maximized by varying the bundle position of the connecting cables, the antenna height, the antenna polarization (vertical and horizontal) and the table orientation (360 degrees). The maximum reading is recorded and the next signal is searched for.

#### **Conducted test procedure:**

The power line of the EUT is connected to the LISN (Line Impedance Stabilization Network). A measurement of the emissions are made from the power line for both phase and neutral on the analyzer in the frequency range from 150 kHz to 30 MHz. The maximum readings are recorded for each phase.

All measurements are made according to the procedures defined in: "ANSI C63.4-1992 Standard Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronics Equipment in the Range of 9 kHz to 40 GHz, American National Standard for (ISBN 1-55937-215-5).

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### RSS 210 TEST LIMITS

1. RSS 210 Section 6.2.2, Table 3 Radiation Limits (Quasi-Peak):  
FCC Part 15.209, 15.235, 15.249 Radiation Limits (Quasi-Peak):

Frequency MHz	Distance meters	Limit dBμV/m	Limit μV/m
1.705 - 30	30	29.5*	30*
30 - 88	3	40.0	100
49.82 - 49.90	3	80.0*	10,000*
88 - 216	3	43.5	150
216 - 960	3	46.0	200
902 - 928	3	94.0*	50,000*
960 - 1000	3	54.0	500
1000 - 40000	3	54.0*	500*

\*NOTE: Average Limits

2. RSS 210 Section 6.6a Conduction Limits (Quasi-Peak):  
FCC Part 15.207 Conduction Limits (Quasi-Peak)

Frequency MHz	Quasi-Peak Limit dBμV	Average Limit dBμV
0.150 - 0.500	66 to 56	56 to 46
0.500 - 5.0	56	46
5.0 - 30.0	60	50

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### TEST FACILITY DESCRIPTION

Compliance Worldwide is located on 357 Main Street in Sandown, New Hampshire. The conducted and radiated test sites, located at C.W. are used for Federal Communications Commission (FCC) testing and Industry Canada Testing. A site description is on file with the FCC in Columbia, MD USA. Site information is also on file with Industry Canada, anyone wishing to review this Test Facility Description is referred to file number **IC 3023**. This is currently on file at Industry Canada, 1241 Clyde Avenue, Ottawa, ON K2C 1Y3.

The radiated site is a 3/10 meter indoor site with an enclosure for the product and a basement for the personnel, support equipment and test equipment.

The conducted site is part of a 16' x 20' x 12' ferrite tile chamber and uses one of the walls for the vertical metal wall required by EN 55022.

Both sites are designed to test products or systems 1.5 meter x 1.0 meter, floor standing or table top.



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**TEST SET UP  
AND  
PERIPHERAL CONNECTION INFORMATION**

A large rectangular box containing a smaller rectangular box in the center. The smaller box is labeled 'EUT'.

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PLEASE NOTE - EUT (equipment under test) is Fart Machine 900 MHz.

The cables directly connected to this equipment are listed below.  
Please see below for a complete list of FCC ID's etc. on the  
supporting equipment.

### Connection Descriptions

1. No Cables were associated with this test.  
(description)

(from device)

(to device)

CABLE LENGTH \_\_\_\_\_ (S) SHIELDED or (U) UNSHIELDED \_\_\_\_\_

2. N/A  
(description)

(from device)

(to device)

CABLE LENGTH \_\_\_\_\_ (S) SHIELDED or (U) UNSHIELDED \_\_\_\_\_

3. N/A  
(description)

(from device)

(to device)

CABLE LENGTH \_\_\_\_\_ (S) SHIELDED or (U) UNSHIELDED \_\_\_\_\_

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### **RADIATED TEST RESULTS**

Frequency Range: 30 - 9280 MHz.

Measurement Distance: 3.0 Meters.

Bandwidth: 120 kHz, Per ANSI C63.4-1992.\*

Detector Functions: Peak, Quasi Peak, Average

Video Filter: 300 kHz

Table Height: 0.8 meters

Antenna Height Variation: 1 - 4 Meters.

Horizontal and Vertical Polarization Measurements Taken.

\*Measurement Bandwidth is 1 MHz above 1 GHz

**PLEASE SEE NEXT PAGE FOR RADIATED TEST DATA**

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**Worst Case Radiated Tabular Data**

Frequency (MHz)	Polarization (H/V)	Pk Amp (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)
1833.0	v	51.3	54.0	-2.7
2750.2	v	50.8	54.0	-3.2
3667.0	v	51.2	54.0	-2.8
4580.0	v	45.5	54.0	-8.5
5501.5	v	49.3	54.0	-4.7
6482.0	v	44.1	54.0	-9.9

Note: no other signals found within 20 dB of the limit.

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**RADIATED OUTPUT POWER & OCCUPIED BANDWIDTH TEST RESULTS**

Frequency Range: 902 - 928 MHz.

Measurement Distance: 3.0 Meters.

Bandwidth: As Noted, Per ANSI C63.4-1992.

Detector Functions: Peak, Quasi Peak, Average.

Video Filter: 300 kHz

Table Height: 0.8 meters

Antenna Height Variation: 1 - 4 Meters.

Horizontal and Vertical Polarization Measurements Taken, Worst Case Reported.

**PLEASE SEE NEXT PAGE(S) FOR OCCUPIED BANDWIDTH RADIATED TEST DATA**

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### Output Power Plot



FEILD STRENGTH  
279-04 TJ WIESMAN FART MACHINE TX

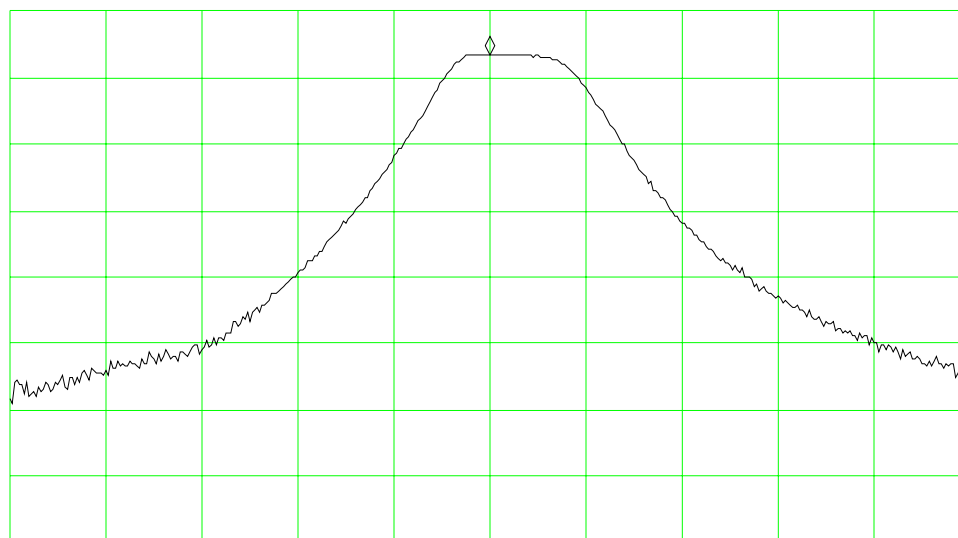
ACTV DET: PEAK  
MEAS DET: PEAK QP  
MKR 912.945 MHz  
71.67 dB $\mu$ V

LOG REF 75.0 dB $\mu$ V

PREAMP ON

5  
dB/  
#ATN  
10 dB

VA SB  
SC FC  
ACORR



CENTER 912.945 MHz

SPAN 1.000 MHz

L #IF BW 120 kHz

AVG BW 300 kHz

SWP 20.0 msec

Frequency (MHz)	Peak Amplitude (dBuV/m)	QP Limit (dBuV/m)	Peak Margin (dBuV/m)
912.945	71.67	94.0	-22.33

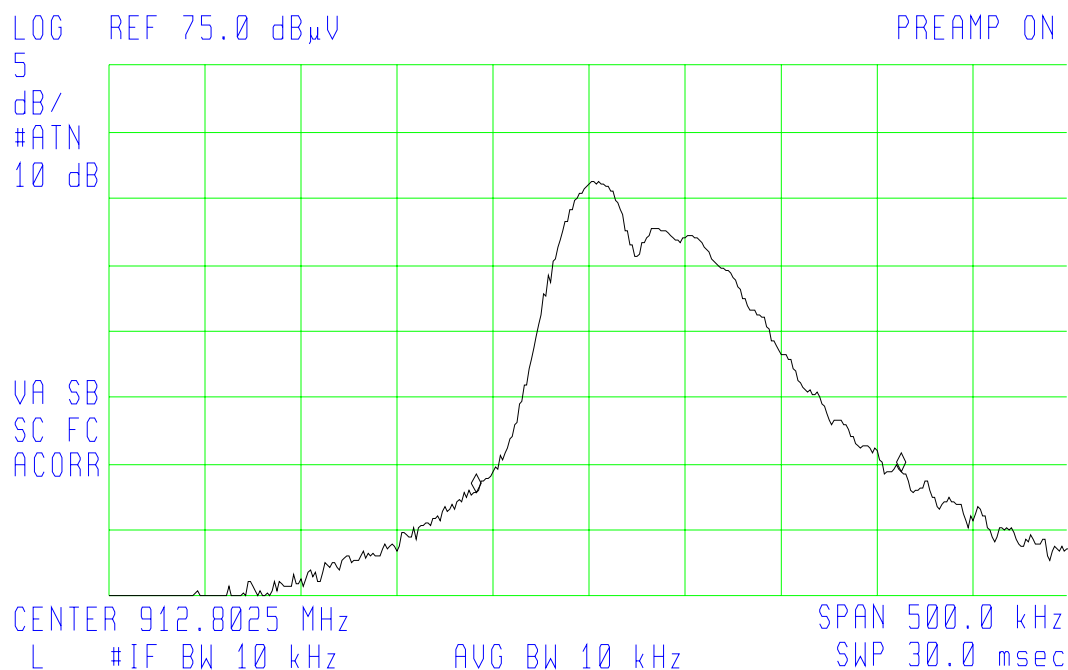
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**Channel A Occupied Bandwidth Plot**



99% POWER BW  
279-04 TJ WIESMAN FART MACHINE TX

ACTV DET: PEAK  
MEAS DET: PEAK QP  
MKR $\Delta$  221.3 kHz  
1.42 dB



Bandwidth 99% power = 221.3 kHz. EUT emission is contained wholly in the band 902-928 MHz.

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#### CONDUCTED TEST RESULTS

Frequency Range:	150 kHz to 30.0 MHz.
Bandwidth:	9 kHz per ANSI C63.4-1992.
Detector Functions:	Peak, Quasi-Peak, Average
Table Height:	0.8 meters
Video Bandwidth:	30 kHz.

Phase and Neutral Measurements Taken.

Conducted Limits do not apply to this EUT, it is battery powered via a standard 9V battery.



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#### **NOTES AND COMMENTS**

(Special conditions unique to this test)

EUT was tested using new Duracell battery