

APPLICANT: SCIENTIFIC TOYS LTD.

FCC ID: BY3E887

NAME OF TEST: RADIATION INTERFERENCE

RULES PART NO.: 15.227

REQUIREMENTS: CARRIER FREQUENCY WILL NOT EXCEED 80 dBuV/m AT 3M.  
OUT-OF-BAND EMISSIONS SHALL NOT EXCEED:

30 - 88 MHz	40.0 dBuV/M MEASURED AT 3 METERS
88 - 216 MHz	43.5 dBuV/M
216 - 960 MHz	46.0 dBuV/M
ABOVE 960 MHz	54.0 dBuV/M

TEST DATA:

EMISSION FREQUENCY MHz	METER READING AT 3 METERS dBuV	COAX LOSS dB	ANTENNA CORRECTION FACTOR dB	FIELD STRENGTH dBuV/m@3m	MARGIN dB	ANT. POL.
27.15	44.00	0.20	11.75	55.95	24.05	V
108.58	5.30	0.80	8.38	14.48	29.02	H
190.02	5.50	0.90	13.67	20.07	23.43	V

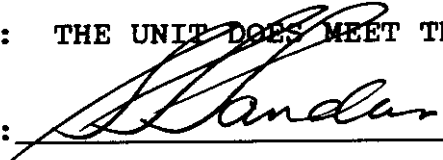
SAMPLE CALCULATION:

$FSD_{BuV/m} = MR(dBuV) + ACF_{dB}$ .

TEST PROCEDURE: The procedure used was ANSI STANDARD C63.4-1992. The spectrum was scanned from 30 MHz to 1000 MHz. 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 UUT was tested in 3 orthogonal planes.

TEST RESULTS: THE UNIT DOES MEET THE FCC REQUIREMENTS.

PERFORMED BY:



DATE: MARCH 30, 1998

APPLICANT: SCIENTIFIC TOYS LTD.

FCC ID: BY3E887

REPORT #: F:\CUS\S\SCIENTIF\SCI73H8.RPT

PAGE #: 11

APPLICANT: SCIENTIFIC TOYS LTD.  
FCC ID: BY3E887  
NAME OF TEST: Occupied Bandwidth  
RULES PART NO.: 15.227  
REQUIREMENTS: The field strength of any emissions appearing outside the 26.96-27.28 MHz band shall not exceed 100 uV/m (15.209).

THE GRAPH ON THE FOLLOWING PAGE REPRESENTS THE WORSE CASE OCCUPIED BANDWIDTH EMISSIONS FOR THIS DEVICE.

METHOD OF MEASUREMENT: A small sample of the transmitter output was fed into the spectrum analyzer and the attached plot was taken. The vertical scale is set to -10 dBm per division. The horizontal scale is set to 5 kHz per division.

TEST RESULTS: The unit DOES meet the FCC requirements.

PERFORMED BY:  MARCH 30, 1998

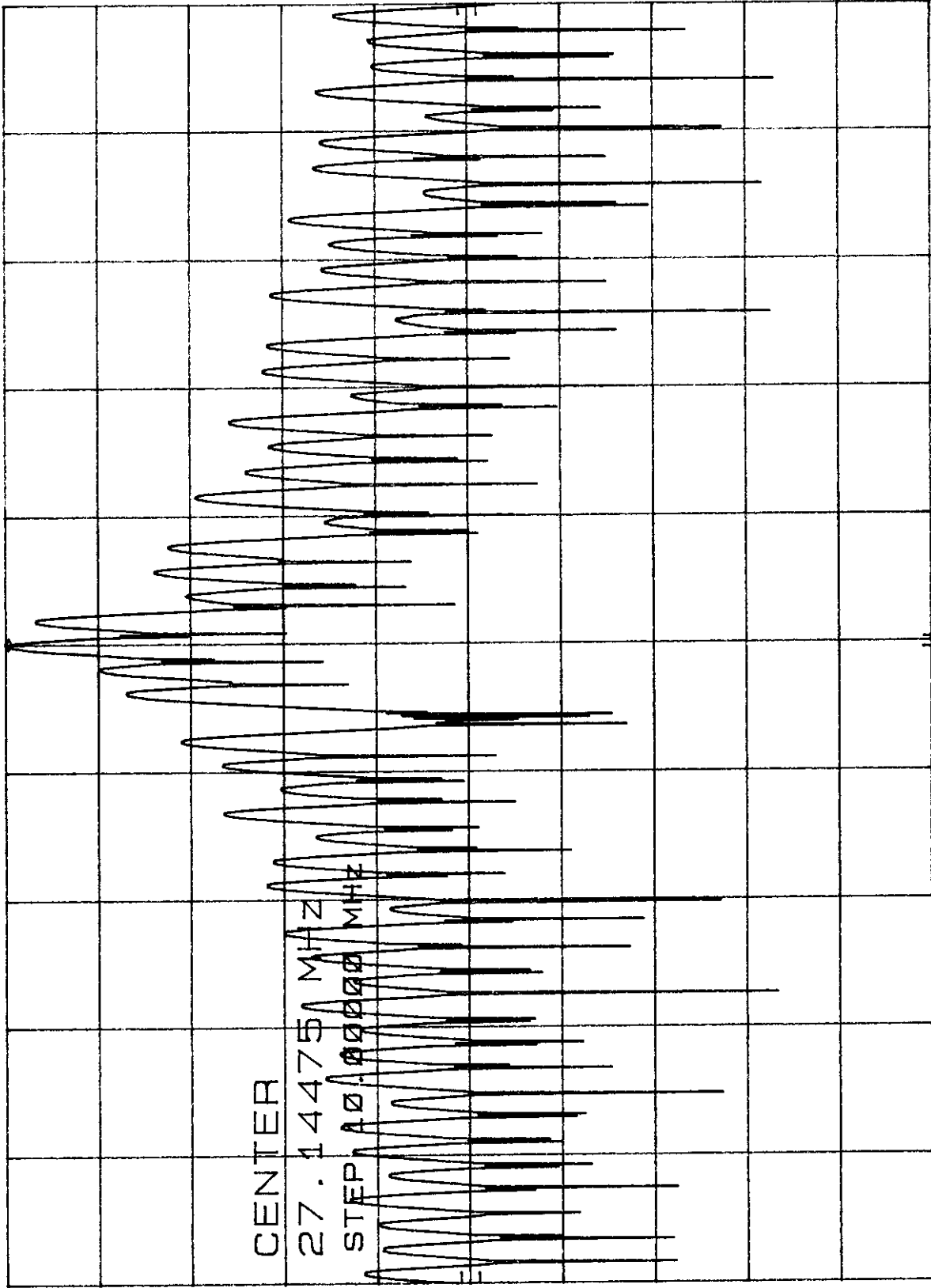
APPLICANT: SCIENTIFIC TOYS LTD.  
FCC ID: BY3E887  
REPORT #: F:\CUS\S\SCIENTIF\SCI73H8.RPT  
PAGE #: 12

MKR 27.14475 MHz  
-48.40 dBm

REF -48.1 dBm ATTEN 10 dB

hp  
10 dB/

OFFSET  
-20.0  
dB



SPAN 50.00 KHZ  
SWP 1.0 sec

VBW 100 KHZ

CENTER 27.14475 MHz  
RES BW 300 Hz