TABLE OF CONTENTS LIST

APPLICANT: Radioshack A Division Of Tandy Corp.

FCC ID: AAO1901127

TEST REPORT CONTAINING:

EXHIBITS CONTAINING:

APPLICANT: Radioshack A Division Of Tandy Corp.
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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 8565OA, S/N 3303A01690 & Preamplifier HP 8449B-OPT H02,
      S/N 3008A00372 Cal. 10/17/99
 2._X_Signal Generator: HP 8640B, S/N 2308A21464 Cal. 9/23/99
 3.___Signal Generator: HP 8614A, S/N 2015A07428 Cal. 5/29/99
 4.___Passive Loop Antenna: EMCO Model 6512, 9KHz to 30MHz, S/N
      9706-1211 Cal. 6/23/97
 5._X_Biconnical Antenna: Eaton Model 94455-1, S/N 1057
 6._X_Log-Periodic Antenna: Electro-Metrics Model EM-6950, S/N 632
 7.___Dipole Antenna Kit: Electro-Metrics Model TDA-30/1-4, S/N 153
      Cal. 11/24/99
 8.___Double-Ridged Horn Antenna: Electro-Metrics Model RGA-180,
      1-18 GHz, S/N 2319 Cal. 4/27/99
 9.___Horn 40-60GHz: ATM Part #19-443-6R
10.___Line Impedance Stabilization Network: Electro-Metrics Model
      ANS-25/2, S/N 2604 Cal. 2/9/00
11.___Temperature Chamber: Tenney Engineering Model TTRC, S/N 11717-7
12.___AC Voltmeter: HP Model 400FL, S/N 2213A14499 Cal. 9/21/99
13.___Digital Multimeter: Fluke Model 8012A, S/N 4810047 Cal 9/21/99
14.___Digital Multimeter: Fluke Model 77, S/N 43850817 Cal 9/21/99
15.___Oscilloscope: Tektronix Model 2230, S/N 300572 Cal 9/23/99
16.___Frequency Counter: HP Model 5385A, S/N 3242A07460 Cal 10/6/99

                    TEST PROCEDURE

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the written approval of TIMCO ENGINEERING, INC.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD
C63.4-1992   using a HEWLETT PACKARD spectrum analyzer with a prese-
lector. The bandwidth of the spectrum analyzer was 100 kHz with an
appropriate sweep speed. The analyzer was calibrated in dB above a
microvolt at the output of the antenna. The resolution bandwidth was
100KHz and the video bandwidth was 300KHz. The ambient temperature of
the UUT was 80oC with a humidity of 76%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was estab-
lished by adding the meter reading of the spectrum analyzer (which is
set to read in units of dBuV) to the antenna correction factor sup-
plied by the antenna manufacturer. The antenna correction factors are
stated in terms of dB. The gain of the Preselector was accounted for
in the Spectrum Analyzer Meter Reading.

     Example:
     Freq (MHz) METER READING + ACF = FS
       33   20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

 REPORT #: T:\CUS\R\RADSHACK\RAD63K0\RAD63K0.RPT
   PAGE #: 1

APPLICANT: Radioshack A Division Of Tandy Corp.
   FCC ID: AAO1901127

ANSI STANDARD C63.4-1992 10.1.7 MEASUREMENT PROCEDURES: The unit
under test was placed on a table 80 cm high and with dimensions
of 1m by 1.5m. The table used for radiated measurements is
capable of continuous rotation.

When an emission was found, the table was rotated to produce the
maximum signal strength. At this point, the antenna was raised
and lowered from 1m to 4m. The antenna was placed in both the
horizontal and vertical planes.

The situation was similar for the conducted measurement except
that the table did not rotate. The EUT was setup as described in
ANSIC63.4-1992 with the EUT 40 cm from the vertical ground wall.

CIRCUIT DESCRIPTION:

In the receive mode the signal comes in on the receive antenna to
the double tuned circuit to the super-regenerative detector Q-3,
where the audio is detected. From Q-3 the audio goes to the
volume resistor R15 to the input to the three(3) stage audio
amplification, Q1, Q4 & Q5. Q5 drives the audio output transform-
er T3 which is connected to the speaker.

ANTENNA AND GROUND CIRCUITRY

This unit makes use of a external 5 inch antenna. The antenna is
inductively coupled. This unit is powered from a 9.0V battery.

No ground connection is provided.   The unit relies on the ground
tract of the printed circuit board.

APPLICANT: Radioshack A Division Of Tandy Corp.

FCC ID: AAO1901127

NAME OF TEST: RADIATION INTERFERENCE

RULES PART NUMBER: 15.109

REQUIREMENTS: 30 to   80 MHz: 40.0 dBuV/M @ 3 METERS
                       88 to 216 MHz: 43.5 dBuV/M
                      216 to 960 MHz: 46.0 dBuV/M
                       ABOVE 960 MHz: 54.0 dBuV/M

TEST RESULTS: A search was made of the spectrum from 30 to 1000
                MHz and the measurements indicate that the unit
                DOES meet the FCC requirements.

TEST DATA:

TUNED FREQ. MHz	EMISSION FREQUENCY MHz	METER READING @ 3m dBuV	COAX LOSS dB	A.C.F. dB	FIELD STRENGTH dBuV/m@3m	MARGIN dB	ANT.
137.00	115.60	12.10	0.80	9.02	21.92	21.58	H
154.00	132.60	8.70	0.80	14.16	23.66	19.84	H
154.00	663.00	9.50	2.00	21.49	32.99	13.01	V
172.00	150.60	16.70	0.90	16.88	34.48	9.02	H
172.00	301.20	7.90	1.40	15.66	24.96	21.04	V
172.00	753.00	6.10	2.00	21.92	30.02	15.98	H
172.00	903.60	9.10	2.90	24.19	36.19	9.81	H

SAMPLE CALCULATION: FSdBuV/m = MR(dBuV) + ACFdB.

TEST PROCEDURE: ANSI STANDARD C63.4-1992 using a Hewlett Packard
Model 8566B spectrum analyzer, a Hewlett Packard Model 85685A
Preselector, a Hewlett Packard Model 85650A Quasi-Peak adapter,
an Electro-Metric Dipole Kit, and an Eaton Model 94455-1
Biconical Antenna. The bandwidth of spectrum analyzer was 100
kHz with an appropriate sweep speed. 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 receiver was put
into the coherant mode by placing an antenna driven by a signal
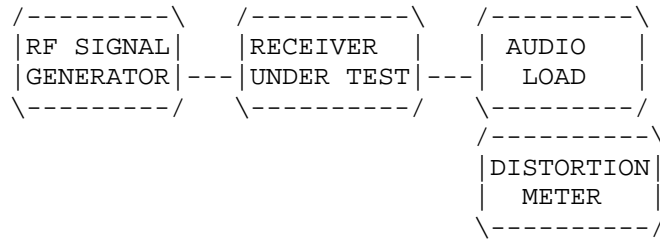generator off site. The UUT was tested in 3 orthogonal planes.

PERFORMED BY: S. S. SANDERS   DATE: March 29, 2000

APPLICANT: Radioshack A Division Of Tandy Corp.

FCC ID: AAO1901127

NAME OF TEST: 38dB REJECTION RATIO

RULES PART NUMBER: 15.121(b)

REQUIREMENTS: 38dB REJECTION RATIO TO SENSITIVITY OF
                          OF THE RECEIVER.
TEST SET-UP
```
        /---------\   /----------\   /---------\
        |RF SIGNAL|   |RECEIVER  |   | AUDIO   |
        |GENERATOR|---|UNDER TEST|---|  LOAD   |
        \---------/   \----------/   \---------/
                                     /----------\
                                     |DISTORTION|
                                     |  METER   |
                                     \----------/
```
TEST PROCEDURE: The reference sensitivity was measured in accor-
dance with TIA/EIA-603;
     a. Equipment connected as illustrated
     b. A standard signal was applied to the receiver input
terminals.
     c. Receiver output audio output was adjusted for rated
output.
     d. The RF Signal generator was adjusted to the lowest level
to produce a 12dB SINAD without the audio output dropping more
than 3dB. Make note of sensitivity level.
     e. This was done across the different bands to establish a
reference level. The reference taken was the worse case sensitiv-
ity.
     f. The output of the signal generator was then adjusted to a
level of 60dB above the reference level at a frequency of
824.5MHz.
     g.   With   the level set 60dB above the level measured in
step e,
     h. Set squelch on receiver to threshold, The signal level
required to open the squelch must be lower than the level measured
in step d.
     i. Cause the receiver to scan or step-it through its
complete
range of frequencies.
     j. If receiver stops or unsquelches on any frequency, record
the frequency and then adjust the level until a 12dB SINAD is
produced. This level must be greater than 38dB above the level in
step e.
     k. Repeat steps f thorugh j for frequencies 836.0, 848.5,
869.1, 881.0, & 893.5MHz.

TEST RESULTS: The UUT meet the 38dB REJECTION RATIO.

PERFORMED BY: S. S. SANDERS   DATE: March 29, 2000

 REPORT #: T:\CUS\R\RADSHACK\RAD63K0\RAD63K0.RPT
   PAGE #: 4