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Test Report

Product Name: RECEIVER

FCC ID: JFZR250

Applicant:

AUDIO TECHNICA CORPORATION 2206 NARUSE, MACHIDA TOKYO 194 JAPAN

Date Receipt: 5/30/2006

Date Tested: 7/4/2006

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FCC ID: JFZR250

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EXHIBITS CONTAINING:

BLOCK DIAGRAM SCHEMATIC INSTRUCTION MANUAL LABEL SAMPLE LABEL LOCATION EXTERNAL PHOTOGRAPHS INTERNAL PHOTOGRAPHS

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EMC Equipment List

| Device | Manufacturer | Model | Serial Number | Cal/Char Date | Due Date |
|---|---------------------|----------|--------------------------|-------------------|----------|
| 3/10-Meter OATS | TEI | N/A | N/A | Listed 3/27/04 | 3/26/07 |
| 3-Meter OATS | TEI | N/A | N/A | Listed 1/11/06 | 1/10/09 |
| Antenna: Biconnical | Eaton | 94455-1 | 1057 | CAL 12/12/05 | 12/12/07 |
| Antenna: Biconnical | Eaton | 94455-1 | 1096 | CAL 8/17/04 | 8/17/06 |
| Antenna: Biconnical | Electro- Metrics | BIA-25 | 1171 | CAL 4/29/05 | 4/29/07 |
| Analyzer Blue Tower Quasi-Peak Adapter | HP | 85650A | 2811A01279 | CAL 4/13/05 | 4/13/07 |
| Analyzer Blue Tower RF Preselector | НР | 85685A | 2926A00983 | CAL 9/5/05 | 9/5/07 |
| Analyzer Blue Tower Spectrum Analyzer | НР | 8568B | 2928A04729 2848A18049 | CAL 4/13/05 | 4/13/07 |
| LISN | Electro- Metrics | ANS-25/2 | 2604 | CAL 8/27/04 | 8/27/06 |
| LISN | Electro- Metrics | EM-7820 | 2682 | CAL 4/28/05 | 4/28/07 |
| Antenna: Log- Periodic | Eaton | 96005 | 1243 | CAL 12/14/05 | 12/14/07 |

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TEST PROCEDURE

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RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-2003 using a HEWLETT PACKARD spectrum analyzer with a preselector. 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 80°F with a humidity of 70%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied 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

ANSI STANDARD C63.4-2003 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 ANSIC63.4-2003 with the EUT 40 cm from the vertical ground wall.

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| APPLICANT: | AUDIO TECHNICA CORPORATION | | | |
|-----------------|--|--|--|--|
| FCC ID: | JFZR250 | | | |
| NAME OF TEST: | RADIATION INTERFERENCE | | | |
| RULES PART NO.: | 15.109 | | | |
| REQUIREMENTS: | 30 to 88 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 1000MHz and the measurements indicate that the unit DOES meet the FCC requirements.

| TEST DATA: Tuned Frequency MHz | Emission Frequency MHz | Meter Reading dBuV | Ant. Polarity | Coax Loss dB | Correction Factor dB | Field Strength dBuV/m | Margin dB |
|---|------------------------------|--------------------------|------------------|--------------------|----------------------------|-----------------------------|--------------|
| 169.5 | 180.20 | 21.9 | v | 0.82 | 17.30 | 40.02 | 3.48 |
| | | | - | | | | |
| 169.5 | 180.20 | 25.8 | H | 0.82 | 16.62 | 43.24 | 0.26 |
| 169.5 | 360.40 | 6.7 | v | 1.16 | 14.81 | 22.67 | 23.33 |
| 170.2 | 180.90 | 13.1 | v | 0.82 | 17.30 | 31.22 | 12.28 |
| 170.2 | 180.90 | 18.3 | н | 0.82 | 16.69 | 35.81 | 7.69 |
| 170.2 | 361.80 | 8.2 | v | 1.16 | 14.85 | 24.21 | 21.79 |
| 171.9 | 182.60 | 13.2 | v | 0.83 | 17.30 | 31.33 | 12.17 |
| 171.9 | 182.60 | 17.3 | н | 0.83 | 16.86 | 34.99 | 8.51 |
| 171.9 | 365.20 | 7.3 | v | 1.17 | 14.96 | 23.43 | 22.57 |

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

TEST PROCEDURE: ANSI STANDARD C63.4-2003. 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.

PERFORMED BY: RICHARD BLOCK DATE: 7/4/06

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| APPLICANT: | AUDIO TECHNICA CORPORATION | | | |
|-----------------|---|---|--|--|
| FCC ID: | JFZR250 | | | |
| NAME OF TEST: | POWER LINE CONDUCTED INTERFERENCE | | | |
| RULES PART NO.: | 15.107 | | | |
| REQUIREMENTS: | .15 - 0.5 MHz 0.5 - 5.0 5.0 - 30. | QUASI-PEAK 66-56 dBuV 56 60 | AVERAGE 56-46 dBuV 46 50 | |
| TEST PROCEDURE: | ANSI STANDARD C63 from .15 to 30 MH | - | ectrum was scanned | |

TEST DATA:

THE GRAPHS ON THE FOLLOWING PAGE REPRESENT THE EMISSIONS TAKEN FOR THIS DEVICE.

PERFORMED BY: RICHARD BLOCK

DATE: 7/04/06

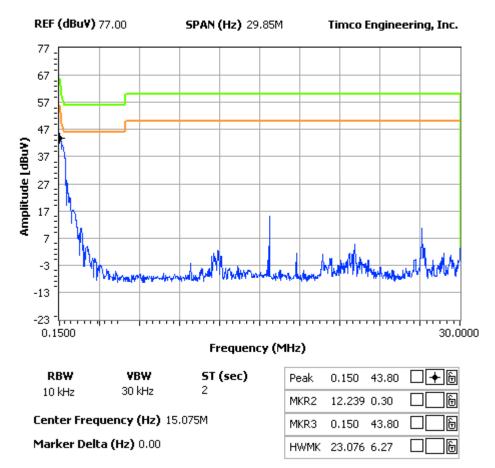
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POWERLINE CONDUCTED EMISSIONS – LINE 1

NOTES:

POWERLINE CONDUCTED -- LINE 1 AUDIO TECHNICA CORP FCC ID: JFZ R250

FCC 15.107 Mask Class B

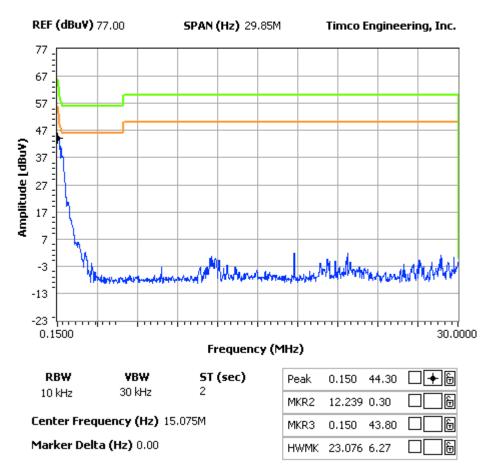


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POWERLINE CONDUCTED EMISSIONS – LINE 2

NOTES: POWERLINE CONDUCTED -- LINE 2 AUDIO TECHNICA CORP FCC ID: JFZ R250

FCC 15.107 Mask Class B



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RADIATED EMISSIONS TEST SET UP PHOTO



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POWERLINE CONDUCTED EMISSIONS TEST SET UP PHOTO

