Headphone Measurements:

Audio Technica ATH-ANC7b

- **Volts RMS required to reach 90dB SPL:** 0.025 Vrms
- **Impedance @ 1kHz:** 295 Ohms
- **Power Needed for 90dB SPL:** 0.00 mW
- **Broadband Isolation in dB (100Hz to 10kHz):** -24 dB
Headphone Measurements: Audio Technica ATH-ANC9

- Headphone Measurements:
  - Voltage RMS required to reach 90dB SPL: 0.072 Vrms
  - Impedance @ 1kHz: 99 Ohms
  - Power Needed for 90dB SPL: 0.05 mW
  - Broadband Isolation in dB (100Hz to 10kHz): -20 dB

- Electrical Impedance and Phase:
  Measured with 600 Ohm output impedance.

- Frequency Response:
  Top - Compensated and Averaged
  Bottom - Raw Data for Five Headphone Positions

- Isolation:
  Attenuation of External Sound vs. Frequency

- %THD+noise @ 90dB and 100dB

- Impulse Response

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Headphone Measurements: Bose Quiet Comfort 15

**Headphone Measurements**

- **Volts RMS required to reach 90dB SPL:** 0.074 Vrms
- **Impedance @ 1kHz:** 2001 Ohms
- **Power Needed for 90dB SPL:** 0.00 mW
- **Broadband Isolation in dB (100Hz to 10kHz):** -26 dBr

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**Frequency Response**
- Compensated and Averaged
- Raw Data for Five Headphone Positions

**Electrical Impedance and Phase**
- Measured with 600 Ohm output impedance.

**Isolation**
- Attenuation of External Sound vs. Frequency

**%THD+noise @ 90dB and 100dB**

**30 Hz Square Wave**

**300 Hz Square Wave**

**Impulse Response**

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Headphone Measurements: Fanny Wang Custom 3000 Noise Canceling On

**Frequency Response**
Top - Compensated and Averaged
Bottom - Raw Data for Five Headphone Positions

**Isolation**
Attenuation of External Sound vs. Frequency

**Electrical Impedance and Phase**
Measured with 600 Ohm output impedance.

**30 Hz Square Wave**

**%THD+noise @ 90dB and 100dB**

**300 Hz Square Wave**

**Impulse Response**

Volts RMS required to reach 90dB SPL: 0.049 Vrms
Impedance @ 1kHz: 2175 Ohms
Power Needed for 90dBSPL: 0.05 mW
Broadband Isolation in dB (100Hz to 10kHz): -14 dB

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**Klipsch Mode M40**

**Headphone Measurements:**

- **Volts RMS required to reach 90dB SPL:** 0.018 Vrms
- **Impedance @ 1kHz:** 149 Ohms
- **Power Needed for 90dB SPL:** 0.00 mW
- **Broadband Isolation in dB (100Hz to 10kHz):** -22 dB

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**Frequency Response**

Top - Compensated and Averaged

Bottom - Raw Data for Five Headphone Positions

**Isolation**

Attenuation of External Sound vs. Frequency

**Impulse Response**

**30 Hz Square Wave**

**300 Hz Square Wave**

**%THD+noise @ 90dB and 100dB**

- Left 90dB
- Right 90dB
- Left 100dB
- Right 100dB

**Electrical Impedance and Phase**

Measured with 600 Ohm output impedance.

**Amplitude (dB)**

**Impedance in Ohms**

**Phase in Degrees**

**Frequency Response**

Top - Compensated and Averaged

Bottom - Raw Data for Five Headphone Positions

**Isolation**

Attenuation of External Sound vs. Frequency

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Headphone Measurements: Monster Beats Studio

**Headphone Measurements:**

- **Volts RMS required to reach 90dB SPL:** 0.047 Vrms
- **Impedance @ 1kHz:** 220 Ohms
- **Power Needed for 90dB SPL:** 0.01 mW
- **Broadband Isolation in dB (100Hz to 10kHz):** -15 dB

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**Frequency Response**

Top - Compensated and Averaged
Bottom - Raw Data for Five Headphone Positions

**Isolation**

Attenuation of External Sound vs. Frequency

**Electrical Impedance and Phase**

Measured with 600 Ohm output impedance.

**%THD+noise @ 90dB and 100dB**

**30 Hz Square Wave**

**300 Hz Square Wave**

**Impulse Response**

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**Headphone Measurements:**

**Polk Ultrafocus 8000**

- **Volts RMS required to reach 90dB SPL:** 0.041 Vrms
- **Impedance @ 1kHz:** 102 Ohms
- **Power Needed for 90dB SPL:** 0.02 mW
- **Broadband Isolation in dB (100Hz to 10kHz):** -14 dB
Headphone Measurements: PSB M4U 2

- **Impedance @ 1kHz:** 11061 Ohms
- **Power Needed for 90dB SPL:** 0.00 mW
- **Broadband Isolation in dB (100Hz to 10kHz):** -17 dB

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**Frequency Response**
- Top - Compensated and Averaged
- Bottom - Raw Data for Five Headphone Positions

**Isolation**
- Attenuation of External Sound vs. Frequency

**Electrical Impedance and Phase**
- Measured with 600 Ohm output impedance.

**30 Hz Square Wave**

**300 Hz Square Wave**

**%THD+noise @ 90dB and 100dB**

**Impulse Response**

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Volts RMS required to reach 90dB SPL: 0.021 Vrms
Impedance @ 1kHz: 11061 Ohms
Power Needed for 90dB SPL: 0.00 mW
Broadband Isolation in dB (100Hz to 10kHz): -17 dB

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