Headphone Measurements:  
Focal Utopia sn A1BEHF000812

- Volts RMS required to reach 90dB SPL: 0.095 Vrms
- Impedance @ 1kHz: 85 Ohms
- Power Needed for 90d BSPL: 0.11 mW
- Broadband Isolation in dB (100Hz to 10kHz): 4 dB

[Graphs and charts showing frequency response, isolation, electrical impedance and phase, impulse response, and THD+noise at 90dB and 100dB.]
Headphone Measurements:  Focal Utopia sn A1BEHF000310

Volts RMS required to reach 90dB SPL: 0.092 Vrms
Impedance @ 1kHz: 83 Ohms
Power Needed for 90dB SPL: 0.10 mW
Broadband Isolation in dB (100Hz to 10kHz): -3 dB

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Headphone Measurements:

Focal Utopia sn A1BEHF000125

Tyll Review

Volts RMS required to reach 90dB SPL: 0.073 Vrms
Impedance @ 1kHz: 85 Ohms
Power Needed for 90d BSPL 0.06 mW
Broadband Isolation in dB (100Hz to 10kHz): -5 dBr

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: Focal Utopia sn A1BEHF000065

Volts RMS required to reach 90dB SPL: 0.086 Vrms
Impedance @ 1kHz: 84 Ohms
Power Needed for 90dB SPL: 0.09 mW
Broadband Isolation in dB (100Hz to 10kHz): 4 dBr
Headphone Measurements: Focal Utopia sn A1BEHF000006

- **Volts RMS required to reach 90dB SPL**: 0.094 Vrms
- **Impedance @ 1kHz**: 82 Ohms
- **Power Needed for 90dB SPL**: 0.11 mW
- **Broadband Isolation in dB (100Hz to 10kHz)**: 4 dBr

### 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

**Volts RMS required to reach 90dB SPL**: 0.094 Vrms
**Impedance @ 1kHz**: 82 Ohms
**Power Needed for 90dB SPL**: 0.11 mW
**Broadband Isolation in dB (100Hz to 10kHz)**: 4 dBr
Headphone Measurements:
Focal Utopia Sample C
snA1BEHF000971 Shootout 2nd Measurement

- Volts RMS required to reach 90dB SPL: 0.105 Vrms
- Impedance @ 1kHz: 88 Ohms
- Power Needed for 90dB SPL: 0.12 mW
- Broadband Isolation in dB (100Hz to 10kHz): 4 dB

- %THD+noise @ 90dB and 100dB
- 30 Hz Square Wave
- 300 Hz Square Wave
- Impulse Response
- Isolation

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Headphone Measurements: Focal Utopia Sample C Shootout

Volts RMS required to reach 90dB SPL: 0.097 Vrms
Impedance @ 1kHz: 87 Ohms
Power Needed for 90d BSPL: 0.11 mW
Broadband Isolation in dB (100Hz to 10kHz): 3 dB
Headphone Measurements:

Focal Utopia Sample B
snA1BEHG003253 2nd Measurement

Volts RMS required to reach 90dB SPL: 0.119 Vrms
Impedance @ 1kHz: 86 Ohms
Power Needed for 90dB SPL: 0.16 mW
Broadband Isolation in dB (100Hz to 10kHz): 1 dBr

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**Headphone Measurements:**

**Focal Utopia Sample B**

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

**Impedance**
- @ 1kHz: 84 Ohms

**Power Needed for 90d BSPL**
- 0.13 mW

**Broadband Isolation in dB**
- (100Hz to 10kHz): 3 dBr

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

**30 Hz Square Wave**

**300 Hz Square Wave**

**Impulse Response**

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

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

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**Headphone Measurements:**

- **Headphone Measurements: Focal Utopia sn A1BEHF000384**

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

**Impedance @ 1kHz:** 85 Ohms

**Power Needed for 90dB SPL:** 0.07 mW

**Broadband Isolation in dB (100Hz to 10kHz):** -4 dB

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

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

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

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**Impulse Response**

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

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**30 Hz Square Wave**

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**300 Hz Square Wave**

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**Volts RMS required to reach 90dB SPL:** 0.077 Vrms

**Impedance @ 1kHz:** 85 Ohms

**Power Needed for 90dB SPL:** 0.07 mW

**Broadband Isolation in dB (100Hz to 10kHz):** -4 dB

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Headphone Measurements: Focal Utopia sn A1BEHF000384
Pad LR Swap

- **Volts RMS required to reach 90dB SPL**: 0.081 Vrms
- **Impedance @ 1kHz**: 85 Ohms
- **Power Needed for 90dB SPL**: 0.08 mW
- **Broadband Isolation in dB (100Hz to 10kHz)**: -4 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:**

Focal Utopia SN A1BEHF000971
Right Pad Not Fully Installed

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**Volts RMS required to reach 90dB SPL:** 0.102 Vrms
**Impedance @ 1kHz:** 86 Ohms
**Power Needed for 90dB SPL:** 0.12 mW
**Broadband Isolation in dB (100Hz to 10kHz):** -5 dBr
Headphone Measurements: Focal Utopia with Elear Pads

- **Volts RMS required to reach 90dB SPL**: 0.054 Vrms
- **Impedance @ 1kHz**: 86 Ohms
- **Power Needed for 90dBSPL**: 0.03 mW
- **Broadband Isolation in dB (100Hz to 10kHz)**: -5 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**

Volts RMS required to reach 90dB SPL: 0.054 Vrms
Impedance @ 1kHz: 86 Ohms
Power Needed for 90dB SPL: 0.03 mW
Broadband Isolation in dB (100Hz to 10kHz): -5 dB