**Headphone Measurements:**

**Grado RS1**

---

**Frequency Response**

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

---

**Isolation**

Attenuation of External Sound vs. Frequency

---

**Impulse Response**

---

**Electrical Impedance and Phase**

Measured with 600 Ohm output impedance.

---

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

---

**30 Hz Square Wave**

---

**300 Hz Square Wave**

---

**Impedance and Phase**

Measured with 600 Ohm output impedance.

---

**Amplitude (dB)**

**Impedance**

**Phase**

---

**Volts RMS required to reach 90dB SPL:** 0.161 Vrms

**Impedance @ 1kHz:** 33 Ohms

**Power Needed for 90dB SPL:** 0.78 mW

**Broadband Isolation in dB (100Hz to 10kHz):** 0 dB