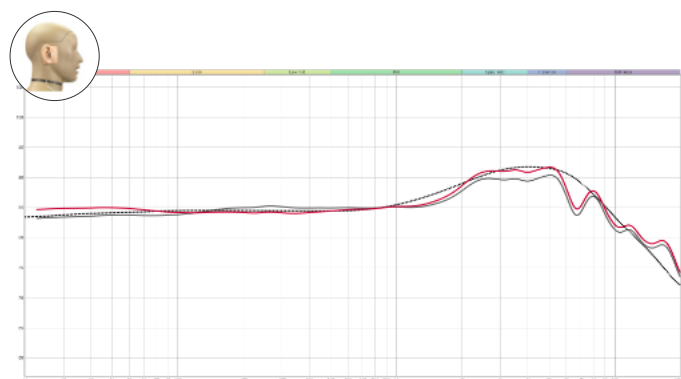
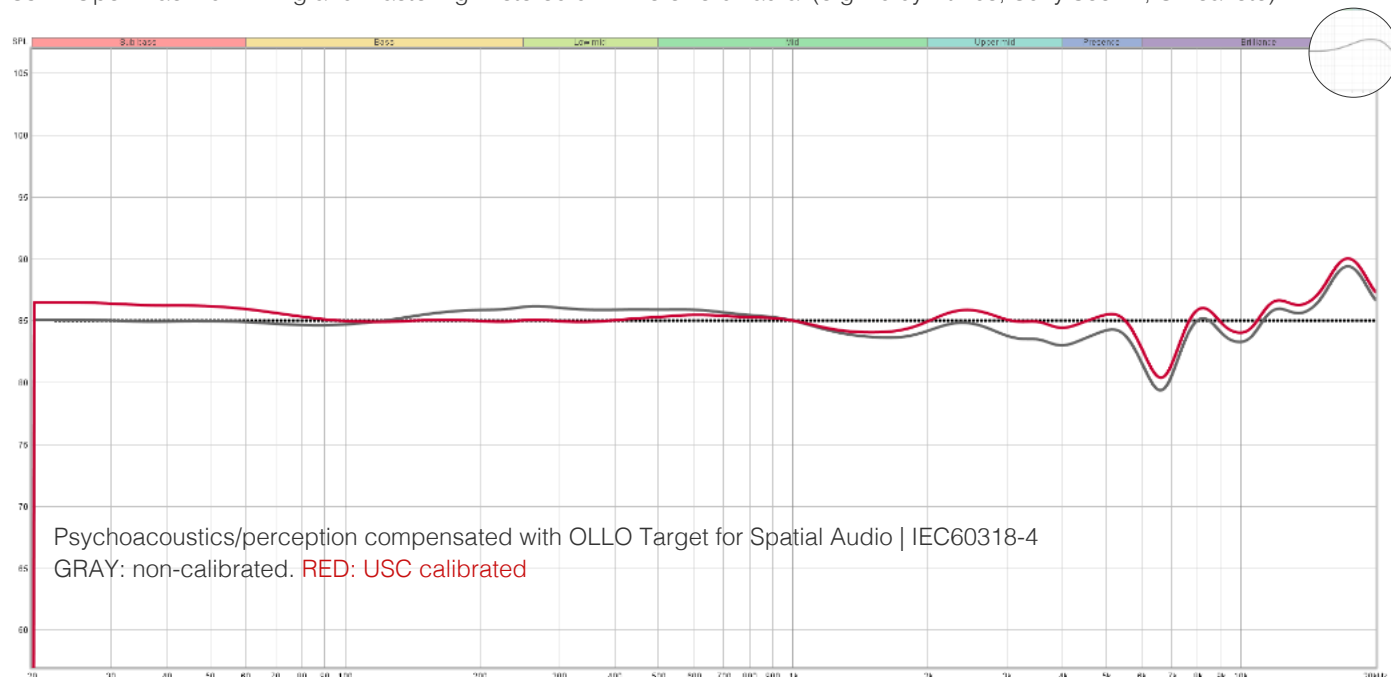
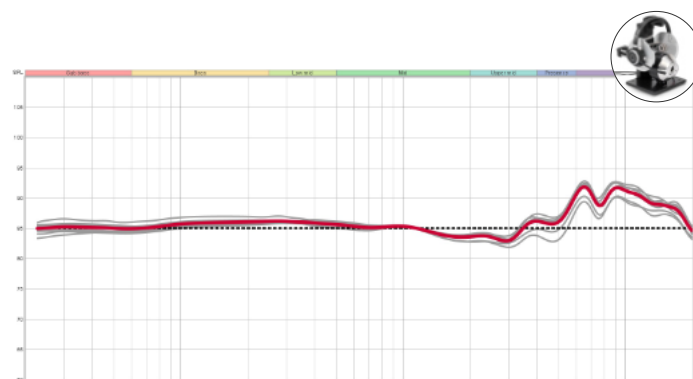


# S5X 1.1 USC

S5X - Open Back for mixing and mastering in stereo or immersive binaural (e.g. Dolby Atmos, Sony 360RA, Unreal etc)



RAW | 1/3 oct | target adherence | IEC60318-4



RAW | 1/3 oct | sweep distribution | IEC60318-1

**Sensitivity\***

@ 0 dBu RMS 1 kHz produces (+/-1) 108 dB SPL

@ -23 dBu RMS 0.5-2kHz pink produces (+/-1) 85 dB SPL

**Frequency range\***

15 Hz - 22 kHz sweep 1/3 oct p-p range (+/-1) 14.5 dB SPL

20 Hz - 20 kHz sweep 1/3 oct p-p range (+/-1) 12 dB SPL

**Earpads in/out diameter / depth**

+/- 2.5mm 57.5mm / 95mm / 20mm

**Impedance**

+/- 5% 50 Ohm

**Weight**

414g

**Clamping pressure N/cm<sup>2</sup>**

@14.3cm breadth ~0.127 N/cm<sup>2</sup>

## 85 dB SPL @ -23 dBu RMS

Maximum volume setting for safe listening and also the K-metering 0dB for K12, K14 or K20 scale with headphones monitoring. As headphones speakers do not sum in SPL as speakers in a room do, we recommend using 85 dB for K-metering. Tidal, Spotify, Youtube, etc. require on average 3-5dB increase in comparison to DAW levels (apps and OS leave 3-5 dB headroom in FS). For casual listening or long sessions set a dim level with additional reduction of 5 dBu.

\*IEC60318-1 compliant, \*\*OLLO Target 2022: 1. Capturing Dolby Atmos certified studio FR with GRAS 45BC "711". 2. Analyzing and extrapolating datasets. 3. Human A/B psychoacoustics testing of proto headphones and Dolby Atmos certified room; results added to datasets as weight. 4. Measuring other headphones for stereo and immersive mixing that were verified by the community and adding them to the datasets as weight. 5. Official G.R.A.S KEMAR free and diffuse field tolerances for the same coupler used in extrapolating from datasets mentioned. 6. Deriving final OLLO target 2022 for IEC60318-4; used in this report for compensated measurements.