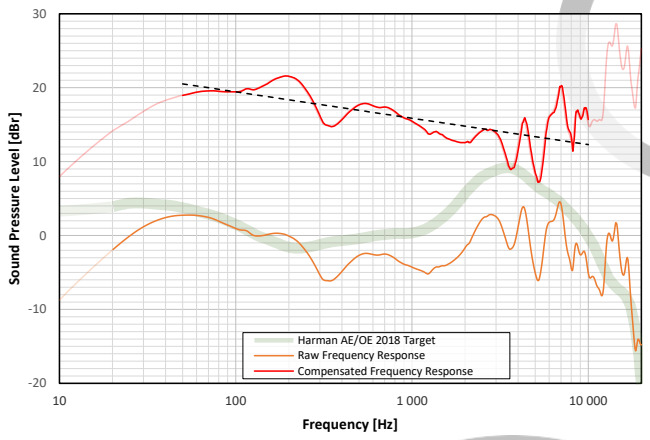
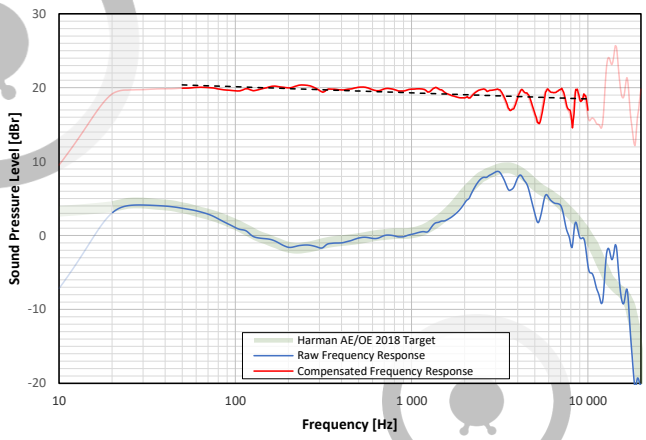
ORATORY1990

EQ setting for Audio Technica ATH-M50x (Dekoni Sheepskin Earpads)

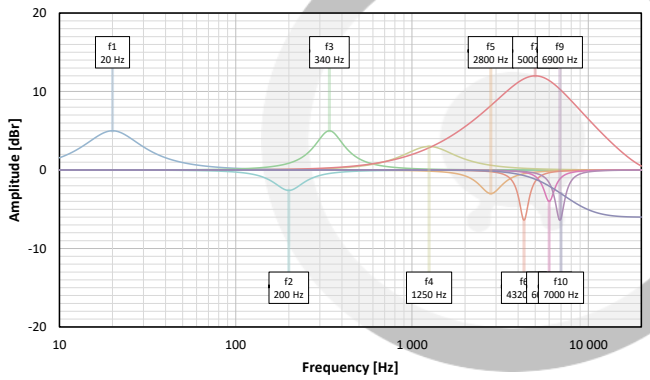
SPL Frequency Response
without EQ



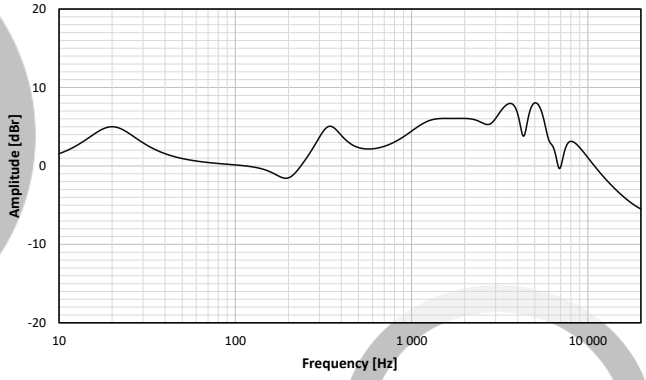
SPL Frequency Response
with EQ



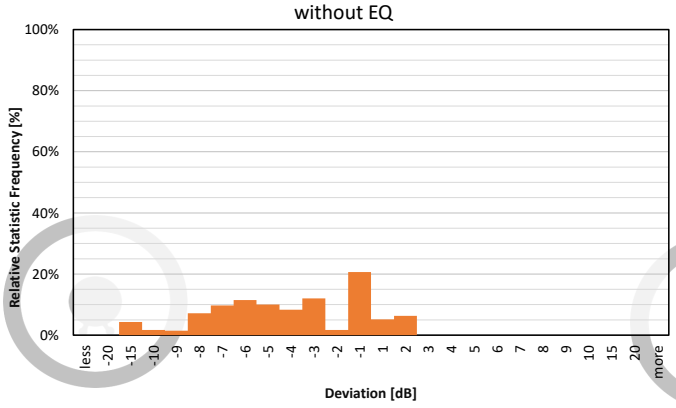
EQ Curve
Individual Filters



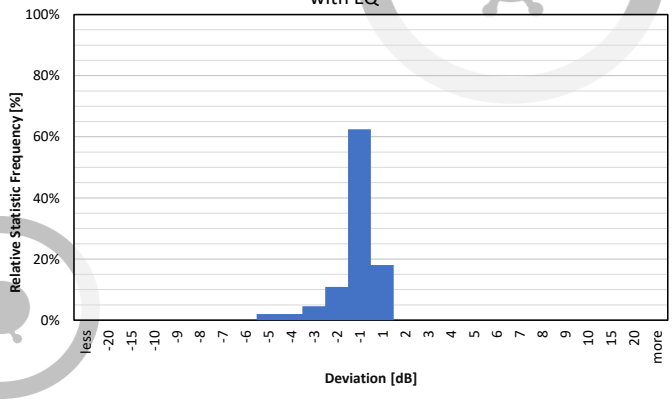
EQ Curve
total



Error Curve Histogram
without EQ



Error Curve Histogram
with EQ



Filter Settings					
	Filter Type	Frequency	Gain	Q-Factor	BW / S
Band 1	PEAK	20 Hz	5,0 dB	1,0	1,39
Band 2	PEAK	200 Hz	-2,6 dB	2,0	0,71
Band 3	PEAK	340 Hz	5,0 dB	2,0	0,71
Band 4	PEAK	1250 Hz	3,0 dB	1,1	1,27
Band 5	PEAK	2800 Hz	-3,0 dB	2,5	0,57
Band 6	PEAK	4320 Hz	-6,4 dB	6,0	0,24
Band 7	PEAK	5000 Hz	12,0 dB	0,5	2,54
Band 8	PEAK	6000 Hz	-4,0 dB	5,0	0,29
Band 9	PEAK	6900 Hz	-6,4 dB	5,5	0,26
Band 10	HIGH_SHELF	7000 Hz	-6,0 dB	0,7	0,31

Preamp gain:
-8,1 dB

Deviation from Target	
Before EQ	After EQ
3,66 dB	0,57 dB

Preference Rating*	
Before EQ	After EQ
50/100	97/100

*preference rating prediction based on:
[1] S. Olive et al: "A Statistical Model That Predicts Listeners' Preference Ratings of In-Ear Headphones: Part 1" (2017)
[2] S. Olive et al: "A Statistical Model That Predicts Listeners' Preference Ratings of In-Ear Headphones: Part 2" (2017)
[3] S. Olive et al: "A Statistical Model That Predicts Listeners' Preference Ratings of Around-Ear and On-Ear Headphones" (2018)
The normalized preference ratings are used, where zero deviation from target equals a preference rating of 100

measured on GRAS43AC/43AG coupler with anthropometric pinna
BruelKjaer Nexus Type 2960 Low-Noise Signal Conditioner
APx515 or APx526 Signal Generator/Analyzer
APx1701 or GRAS 12AU amplifier

v2.8
by oratory1990
01.03.2019