APPENDIX A - INVESTIGATION OF ATTENUATION

os _%	90%	85%	80%	75%	70%	60%	
$\boldsymbol{F_0}$	N.S.	N.S.	N.S.	N.S.	N.S.	t=-3,33 p=0,023	
F_{th}	t=26,14 p<0,001	t=17,16 p<0,001	t=16,78 p<0,001	t=20,66 p<0,001	t=22,41 p<0,001	t=18,68 p<0,001	
os _%	50%	40%	200/	20%	10%	00/	
05%	30%	40%	30%	20%	10%	0%	Me
F_0	t=-4,29 p=0,001	N.S.	t=-7,24 p<0,001	t=-5,96 p<0,001	t=-13,83 p<0,001	t=-40,97 p<0,001	t=-4,

TABLE I

Summary of test statistics for the comparison of force data when focusing a 200Hz AM focal point through ATT plates with different percentages of open space $\mathrm{OS}_{\%}$ oriented parallel to the UMH device face. All tests were two-sampled t-tests comparing F_i to either F_0 or F_{th} (Normality and homoscedasticity of the data was verified by Shapiro-Wilk and Bartlett tests respectively). We considered twelve 0.6mm-thick ATT samples with a triangle grid pattern and percentages of open space $\mathrm{OS}_{\%} = [90\%, 85\%, 80\%, 75\%, 70\%, 60\%, 50\%, 40\%, 30\%, 20\%, 10\%, 0\%]$ as well as a square of generic speaker mesh taut across a 3D-printed square frame.

t	0.6mm	2mm	4mm	8mm
F_0	N.S.	N.S.	t = 3,39 p = 0,0065	t = 3,86 p = 0,002
F_{th}	t = -20,63 p < 0,001	t = -23,63 p < 0,001	t = -18,3 p < 0,001	t = -16,14 p < 0,001

TABLE II

Summary of test statistics for the comparison of force data when focusing a 200Hz AM focal point through ATT plates of different thicknesses t oriented parallel to the UMH device face. All tests were two-sampled t-tests comparing F_i to either F_0 or F_{th} (Normality and homoscedasticity of the data was verified by Shapiro-Wilk and Bartlett tests respectively). We considered four ATT samples with a triangle grid pattern and a percentages of open space OS $_{\%}$ = 25%, with thicknesses of 0.6 mm, 2 mm, 4 mm and 8 mm.

os _%	90%	75%	70%	50%	30%	10%	0%
F_0	N.S.	N.S.	N.S.	T=-4,47 P<0,001	T=-11,51 P<0,001	T=-15,84 P<0,001	T=-40,08 P<0,001
F_{th}	T=14,25 P<0,001	T=9,69 P<0,001	T=8,89 P<0,001	T=8,82 <0,001	N.S.	N.S.	T=-21,59 P<0,001

TABLE III

Summary of test statistics for the comparison of force data when focusing a 200Hz AM focal point through ATT plates with different percentages of open space $\mathrm{OS}_\%$ oriented at a 45° angle to the UMH device face. All tests were two-sampled t-tests comparing F_i to either F_0 or F_{th} (Normality and homoscedasticity of the data was verified by Shapiro-Wilk and Bartlett tests respectively). We considered seven 0.6mm-thick ATT samples with a triangle grid pattern and percentages of open space $\mathrm{OS}_\% = [90\%, 75\%, 70\%, 50\%, 30\%, 10\%, 0\%]$.

t	0.6mm	2mm	4mm	8mm
F_0	NS	NS	T=5,77 P<0,001	T=10,06 P<0,001
F_{th}	T=-9,69 P<0,001	T=-9,74 P<0,001	T=-8,15 P<0,001	T=-3,49 P=0,006

TABLE IV

Summary of test statistics for the comparison of force data when focusing a 200Hz AM focal point through ATT plates of different thicknesses t oriented at a 45° angle to the UMH device face. All tests were two-sampled t-tests comparing F_i to either F_0 or F_{th} (Normality and homoscedasticity of the data was verified by Shapiro-Wilk and Bartlett tests respectively). We considered four ATT samples with a triangle grid pattern and a percentages of open space OS $_{\%}$ = 25%, with thicknesses of 0.6 mm, 2 mm, 4 mm and 8 mm.