

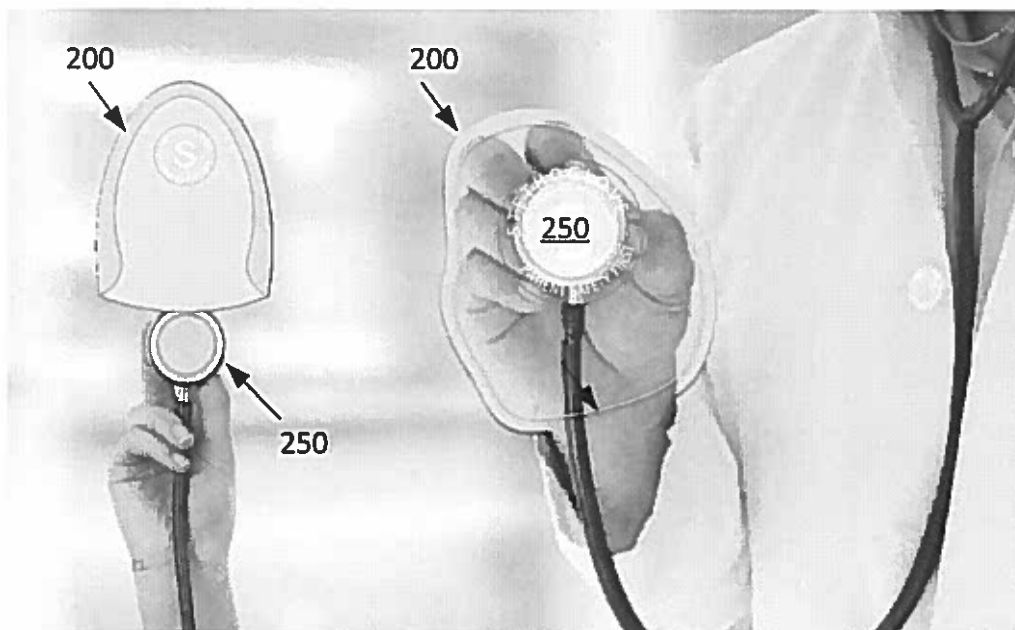
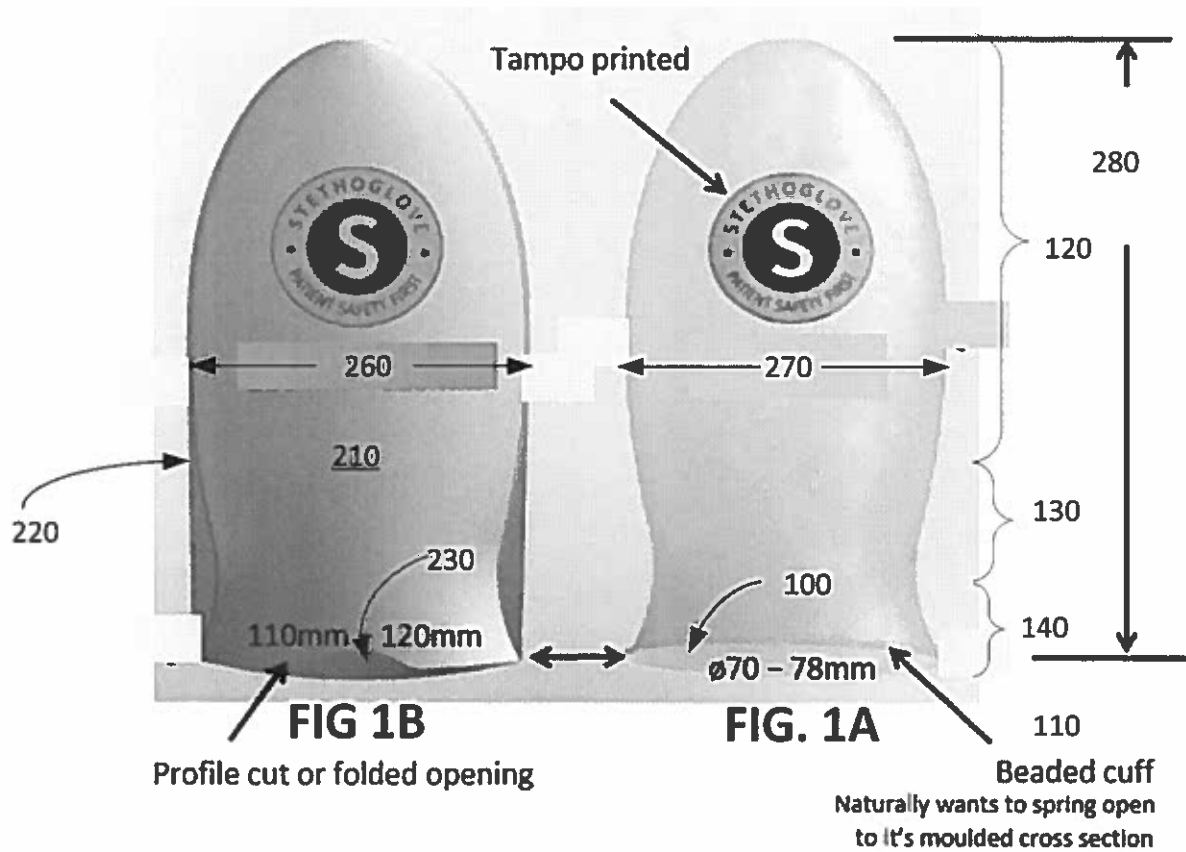


FIG. 2

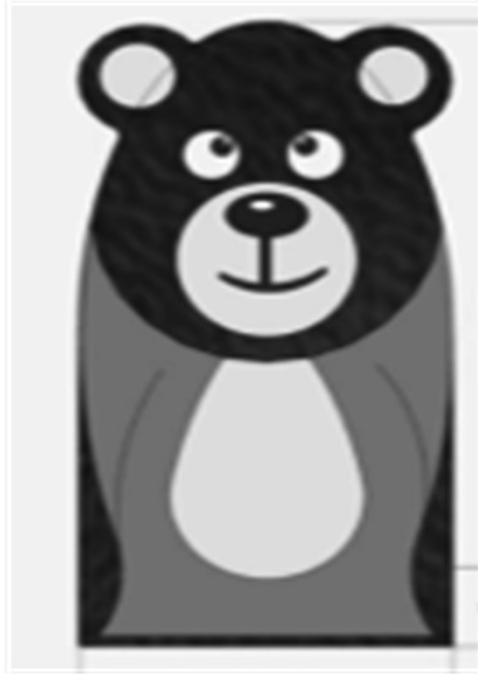


FIG. 3

Ceramic or Aluminum
moulds are
dipped into liquid rubber

The rubber coats the
mould and is then heat
cured. The moulds are
rotated and then inverted

When cured the rubber
can be tampo (pad)
printed with graphics. The
extra material around the
cuff is then rolled into a
bead

The final product is removed
from the mould by air or by
hand and collated into boxes.
The elliptical cross section will
allow covering to be stacked

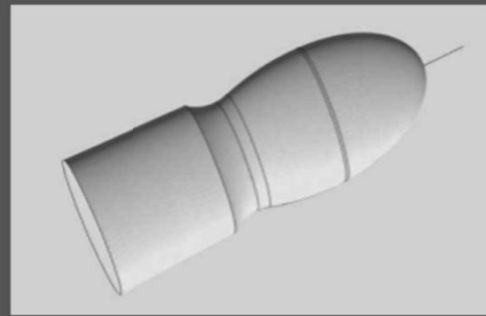


FIG. 4A

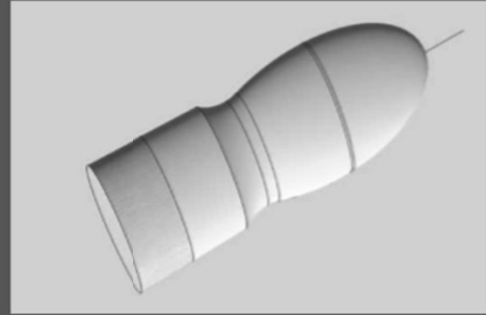


FIG. 4B

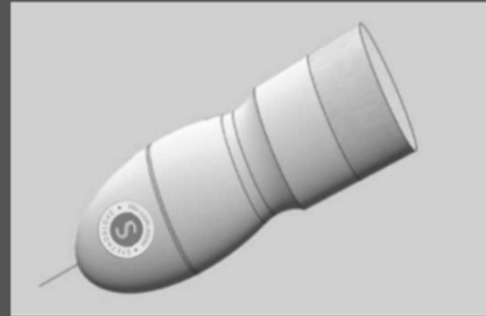


FIG. 4C

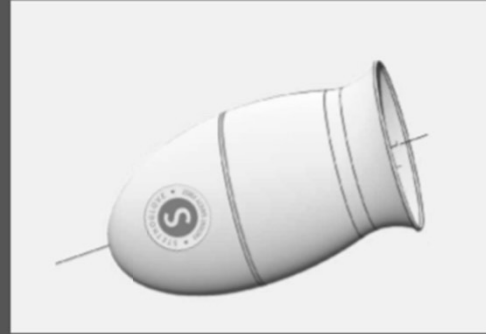


FIG. 4D

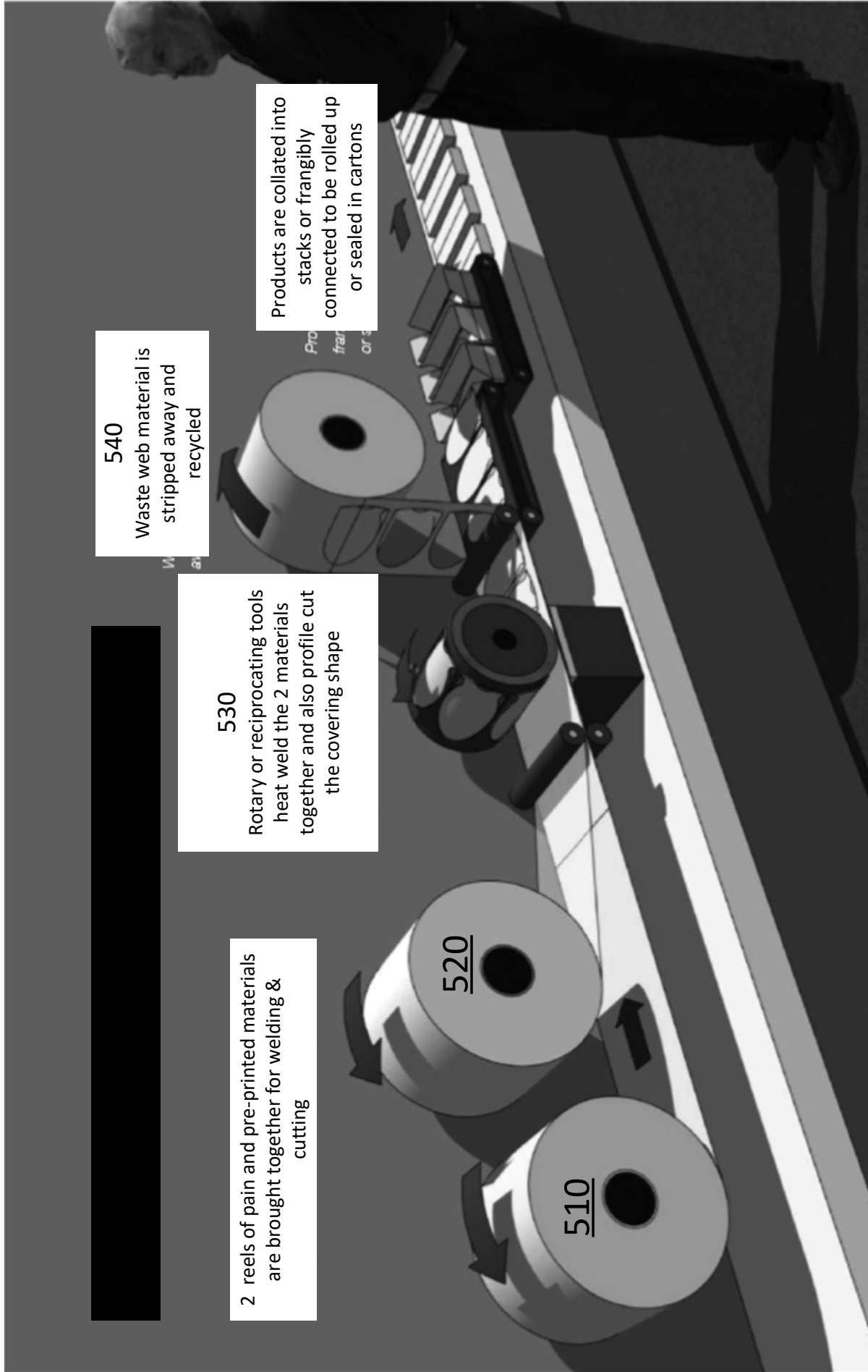


FIG. 5

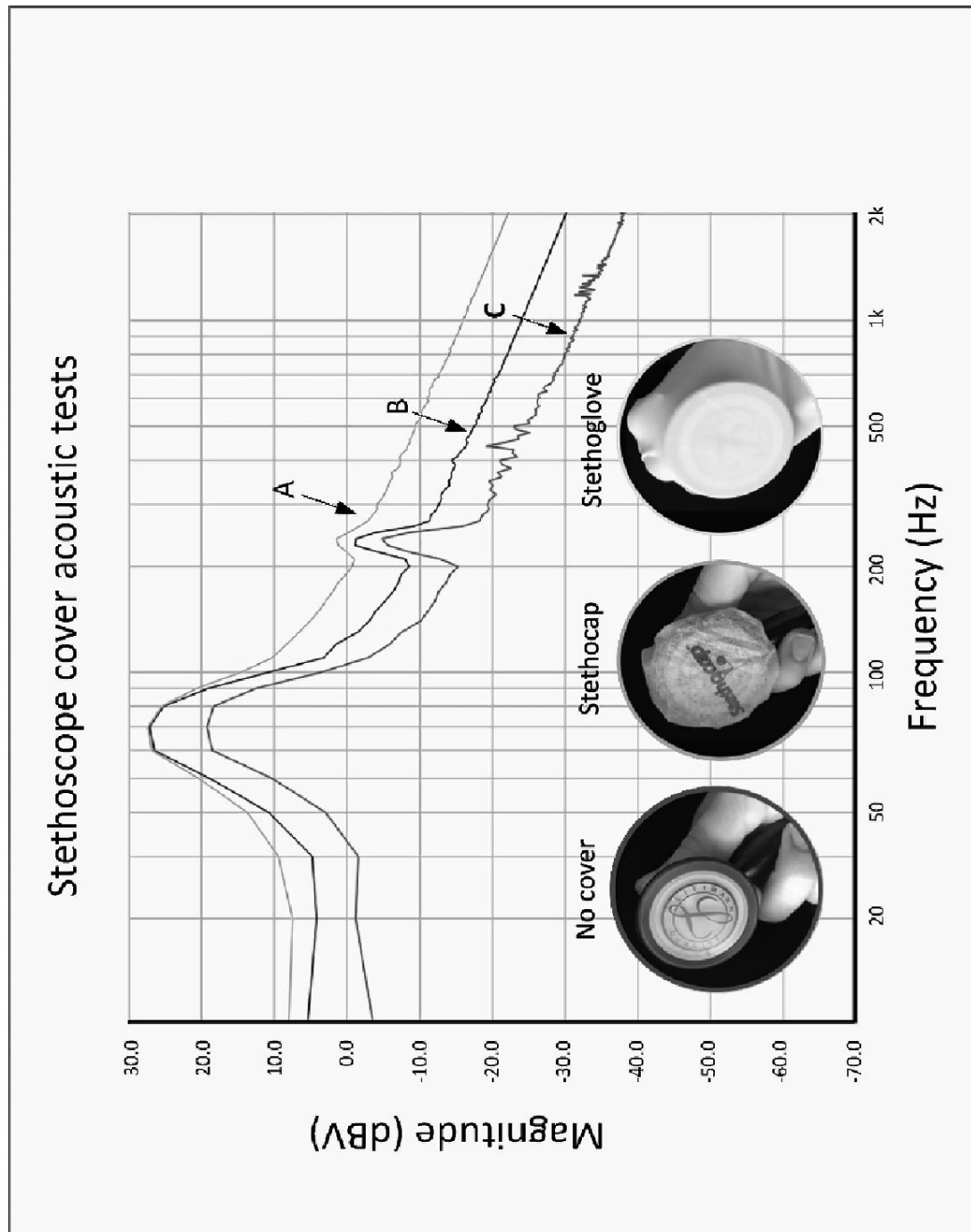


FIG. 6

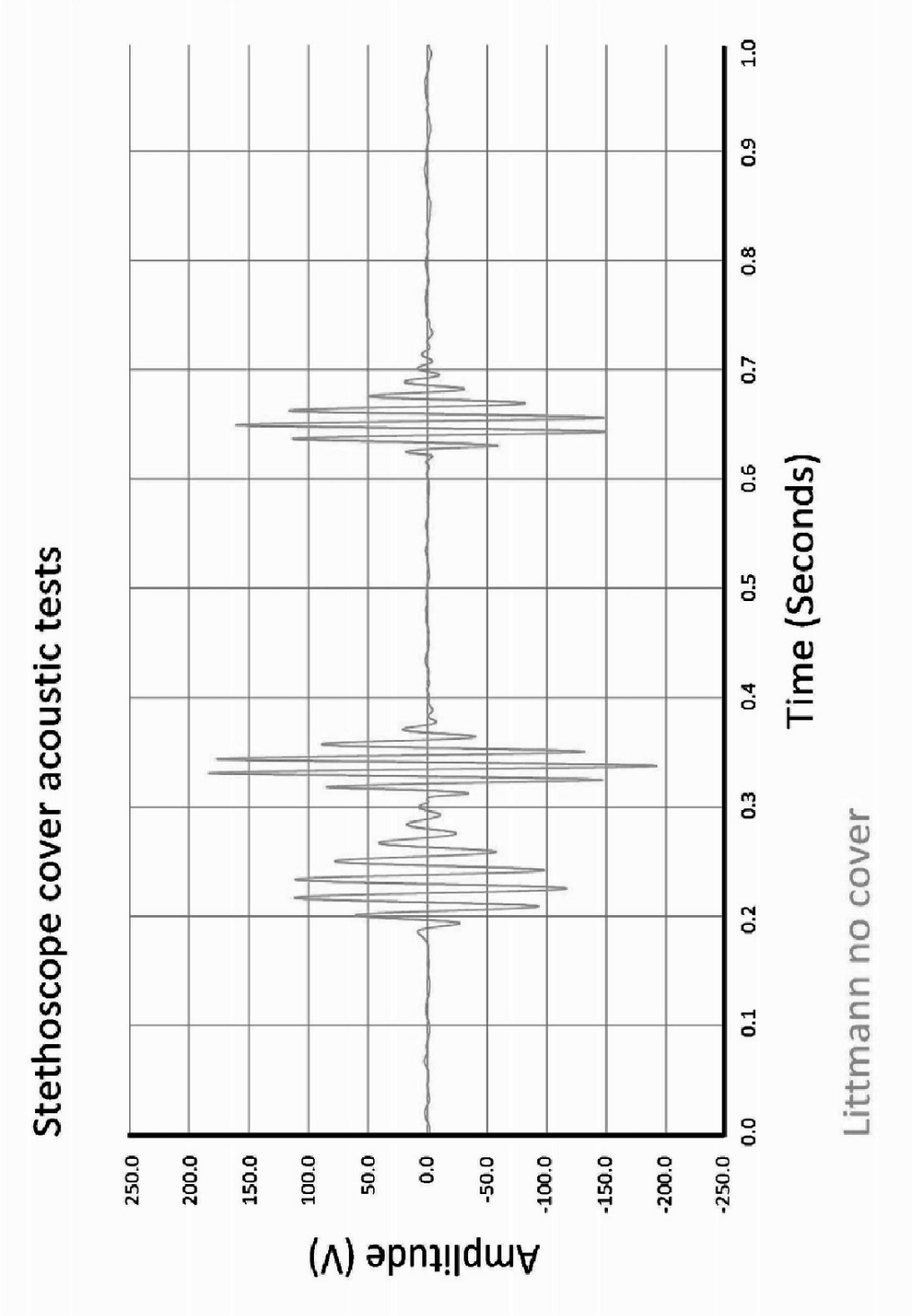


Fig. 7a

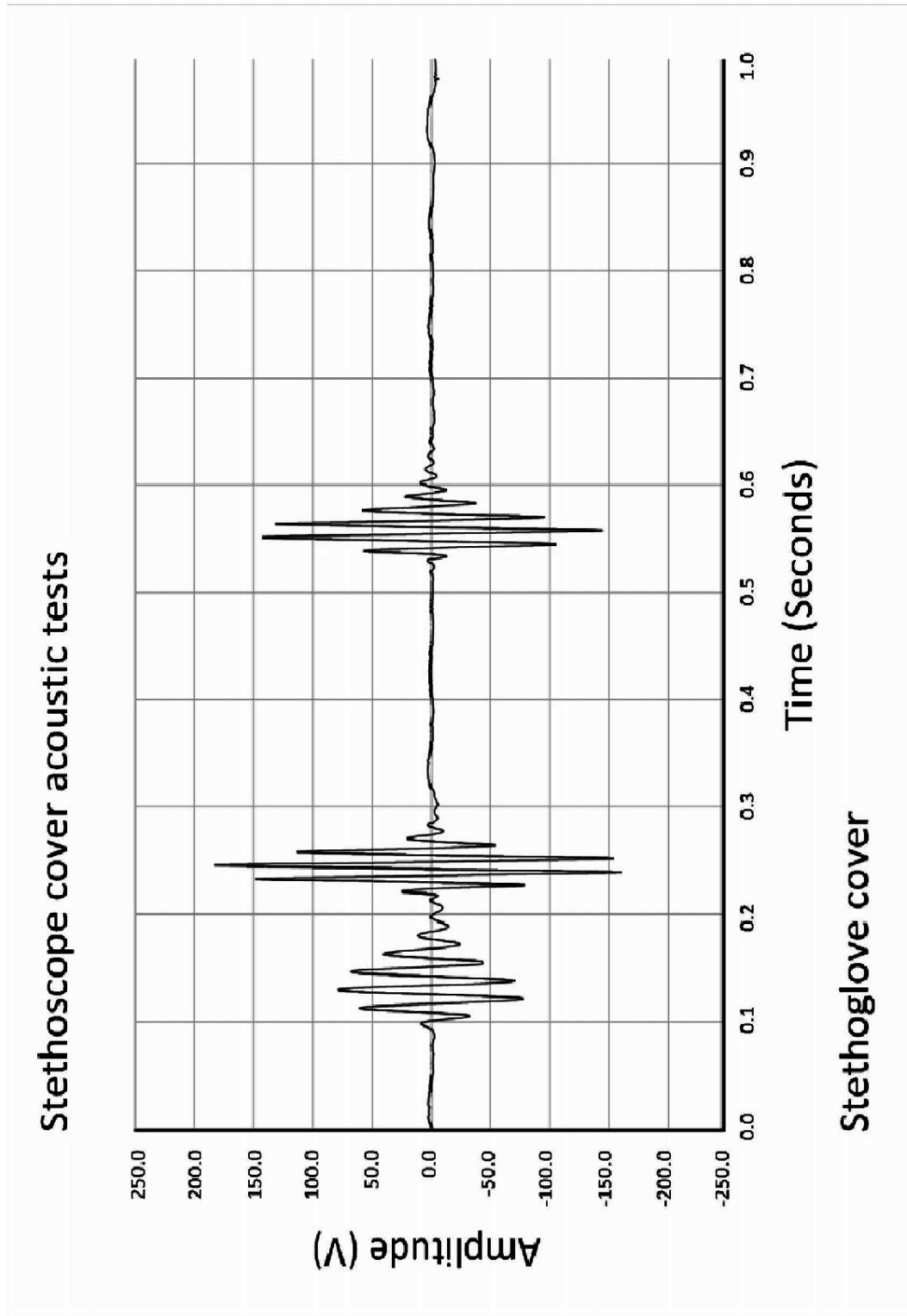
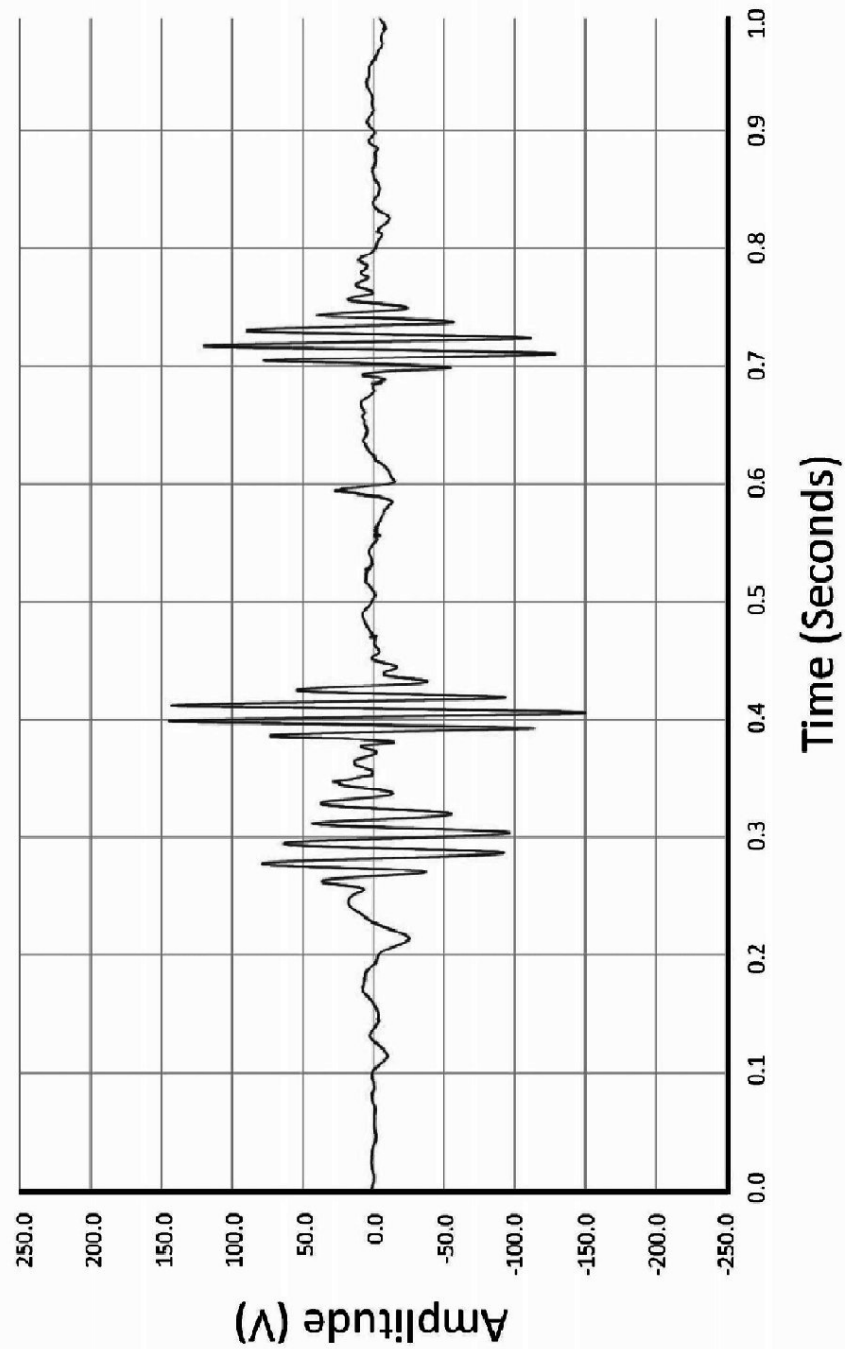


FIG. 7B

Stethoscope cover acoustic tests



Stethocap cover

FIG. 7C

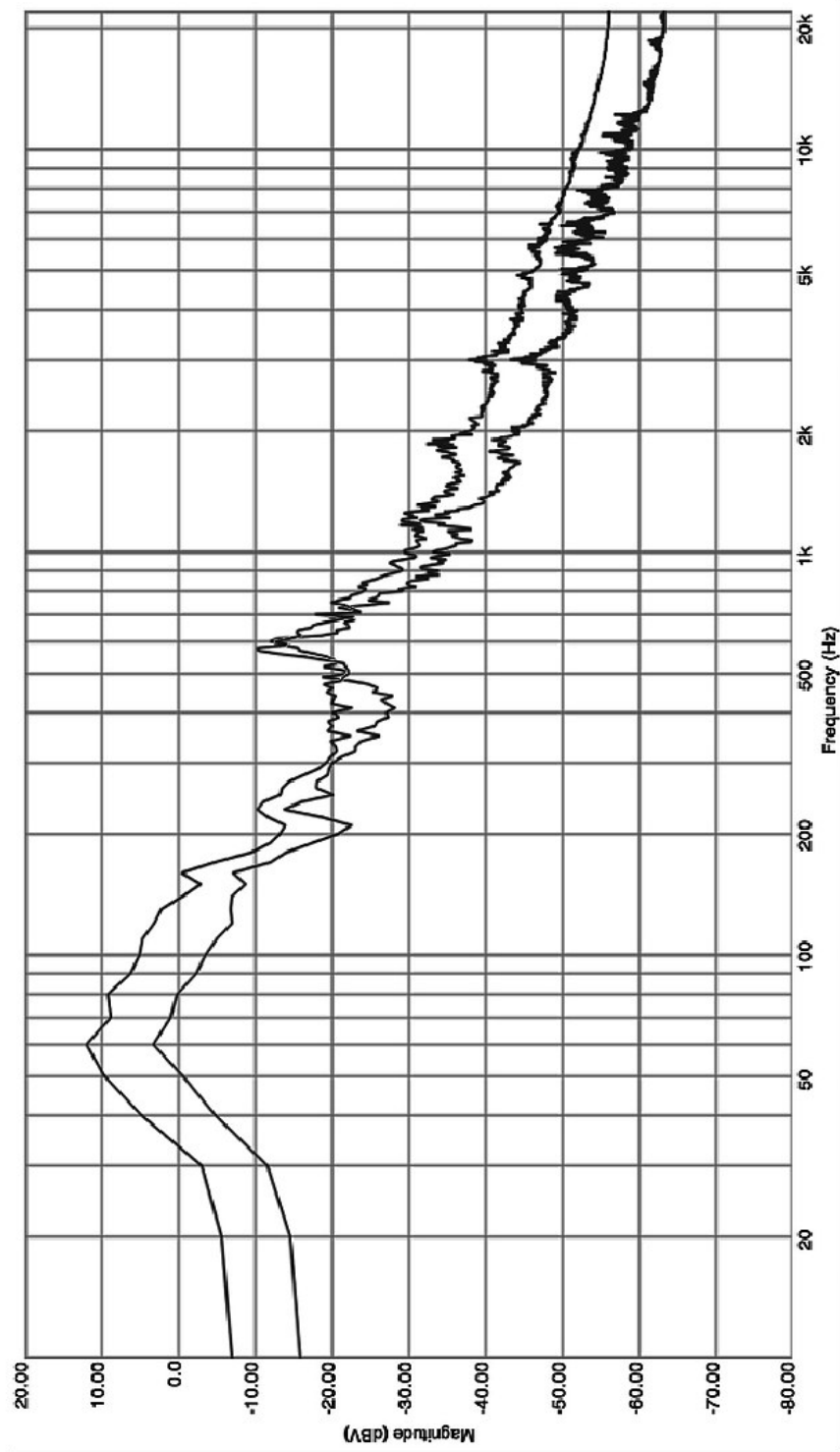


FIG. 8A

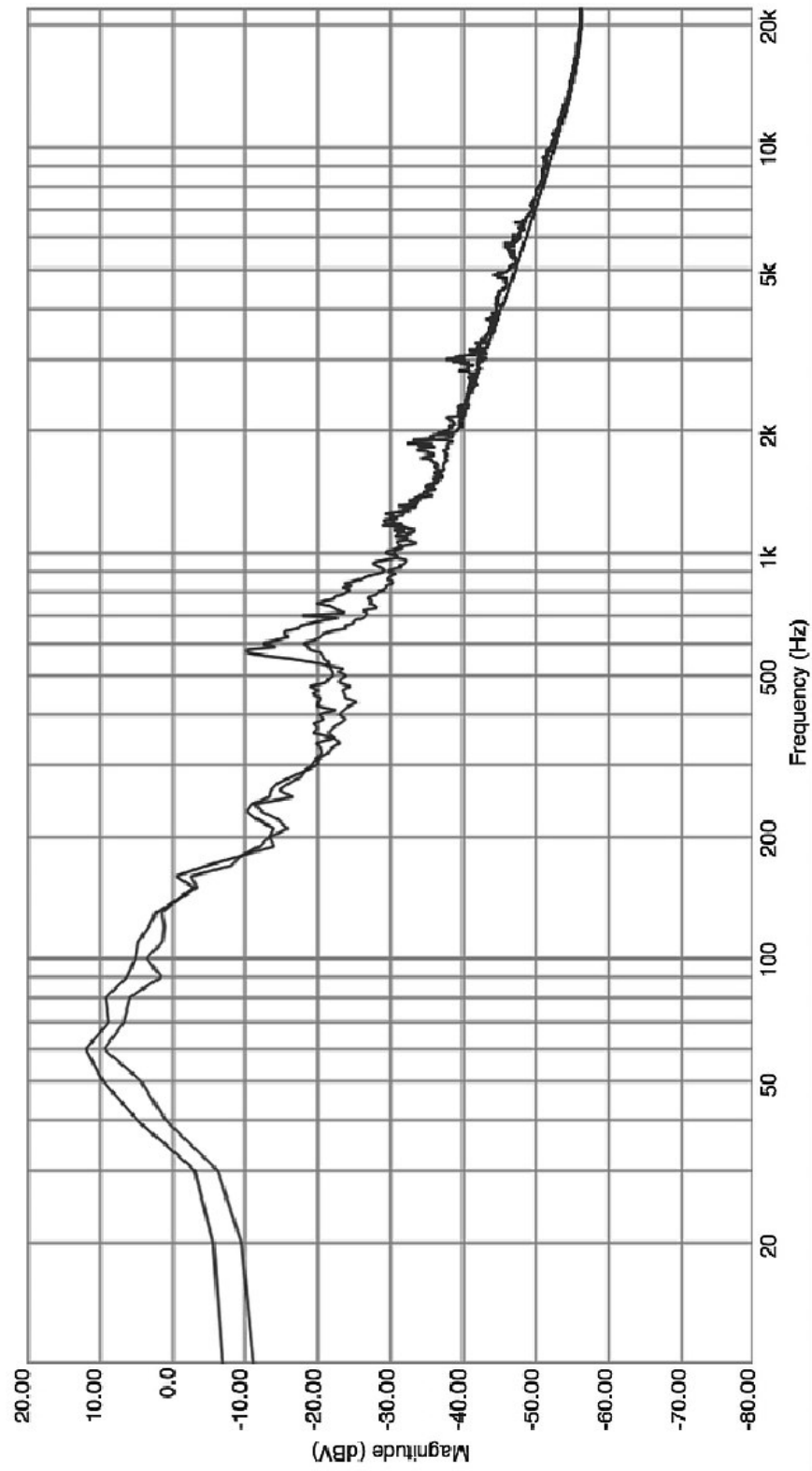


FIG. 8B

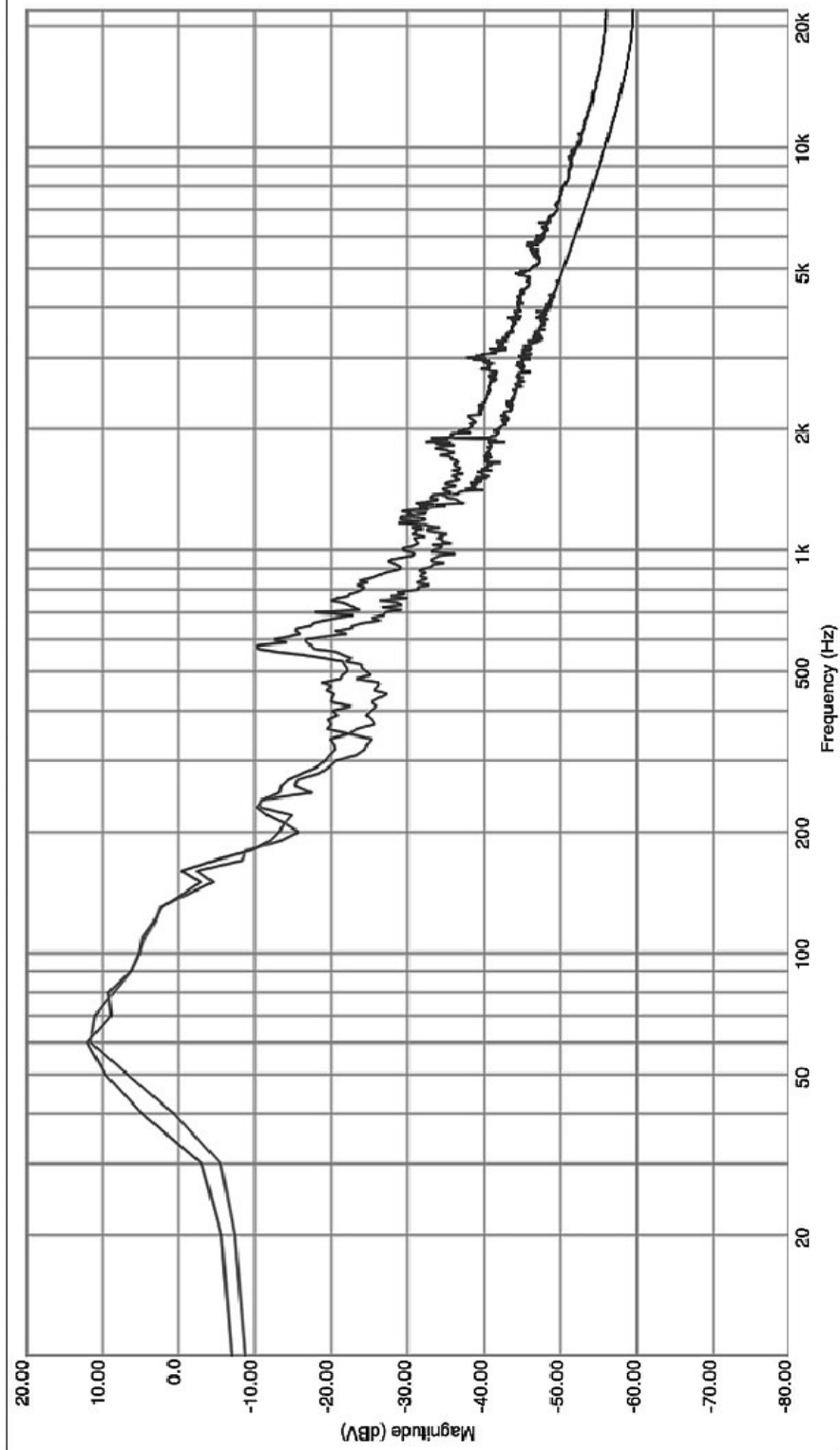


FIG. 8C

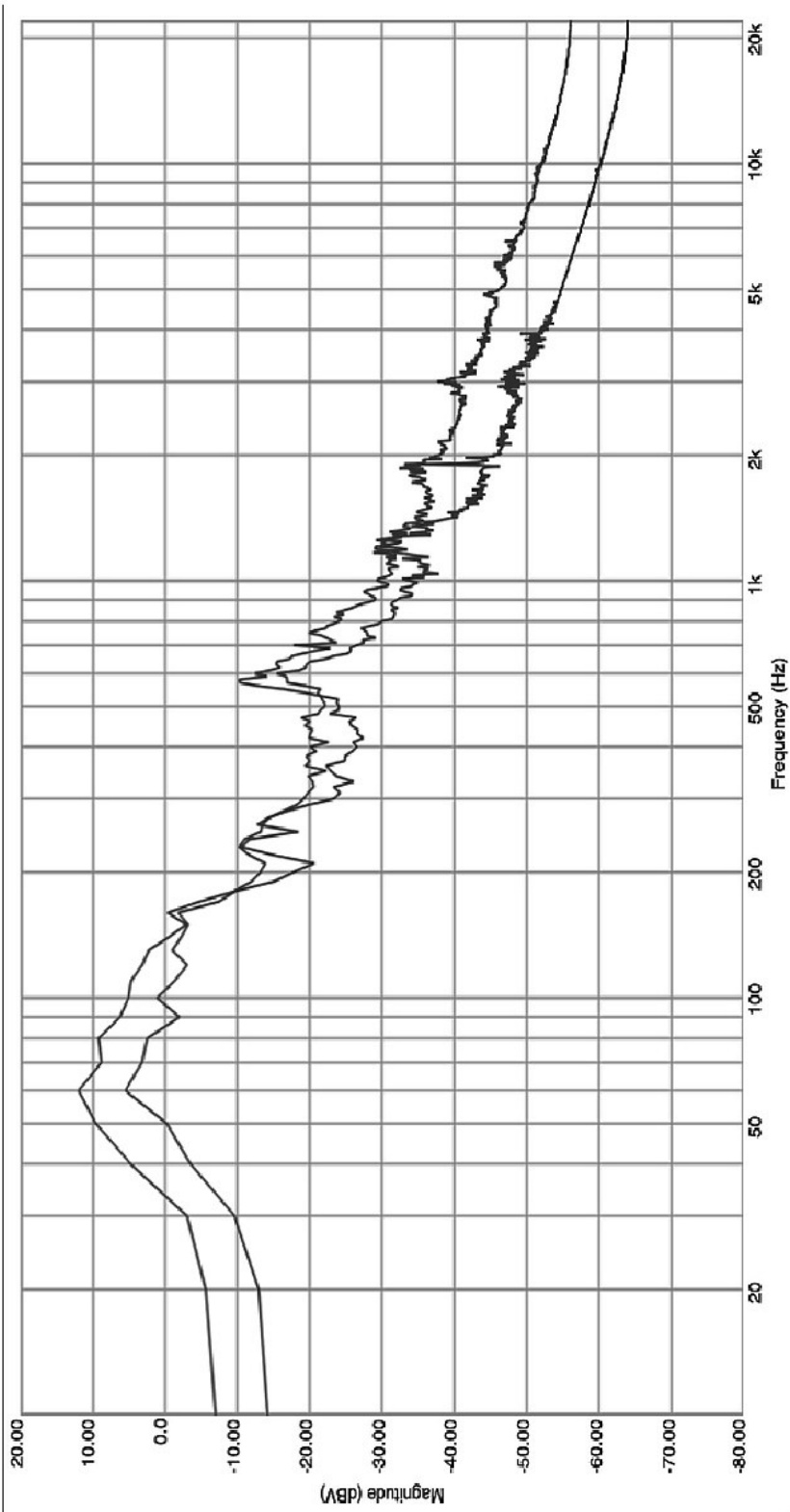


FIG. 8D

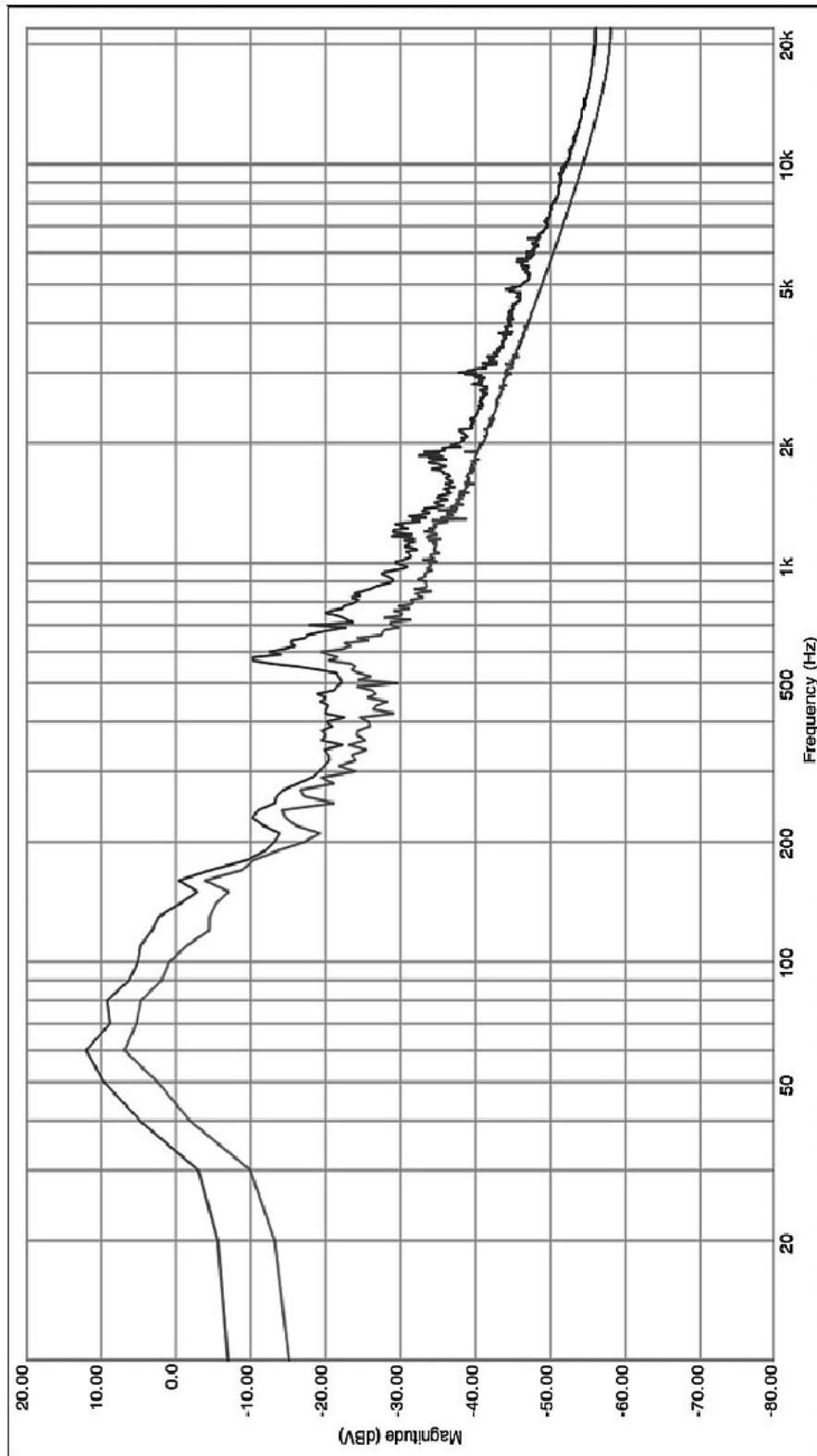


FIG. 8E

- A Control - No covering material
- D Thermoplastic Polyurethane (TPU)
- C Vinyl (PVC)
- F Polyisoprene (Protein free Latex)
- E Polyethelene (LDPE)
- B Spun woven PE (e.g. Tyvek)

FIG. 9

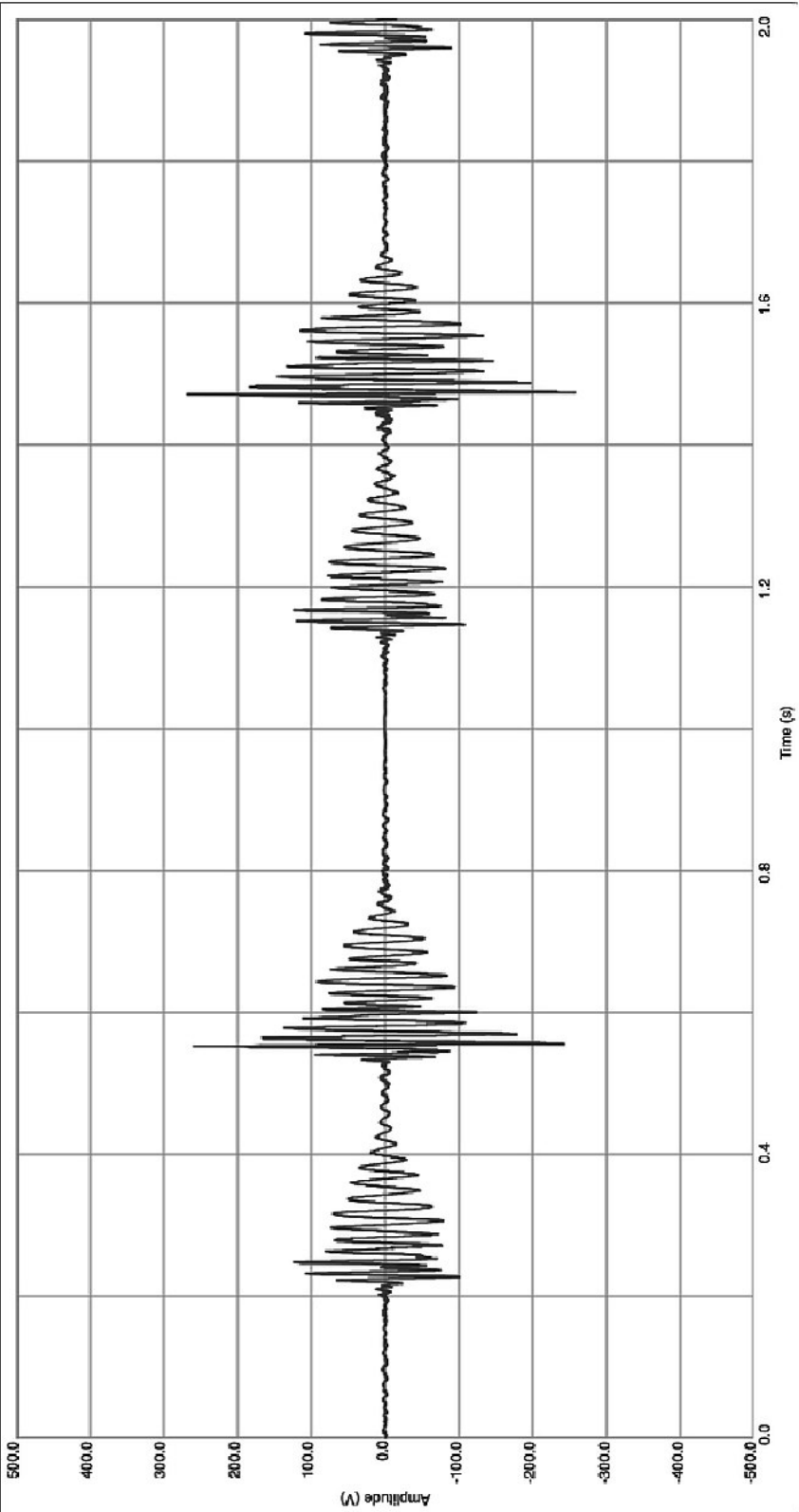


FIG. 10A

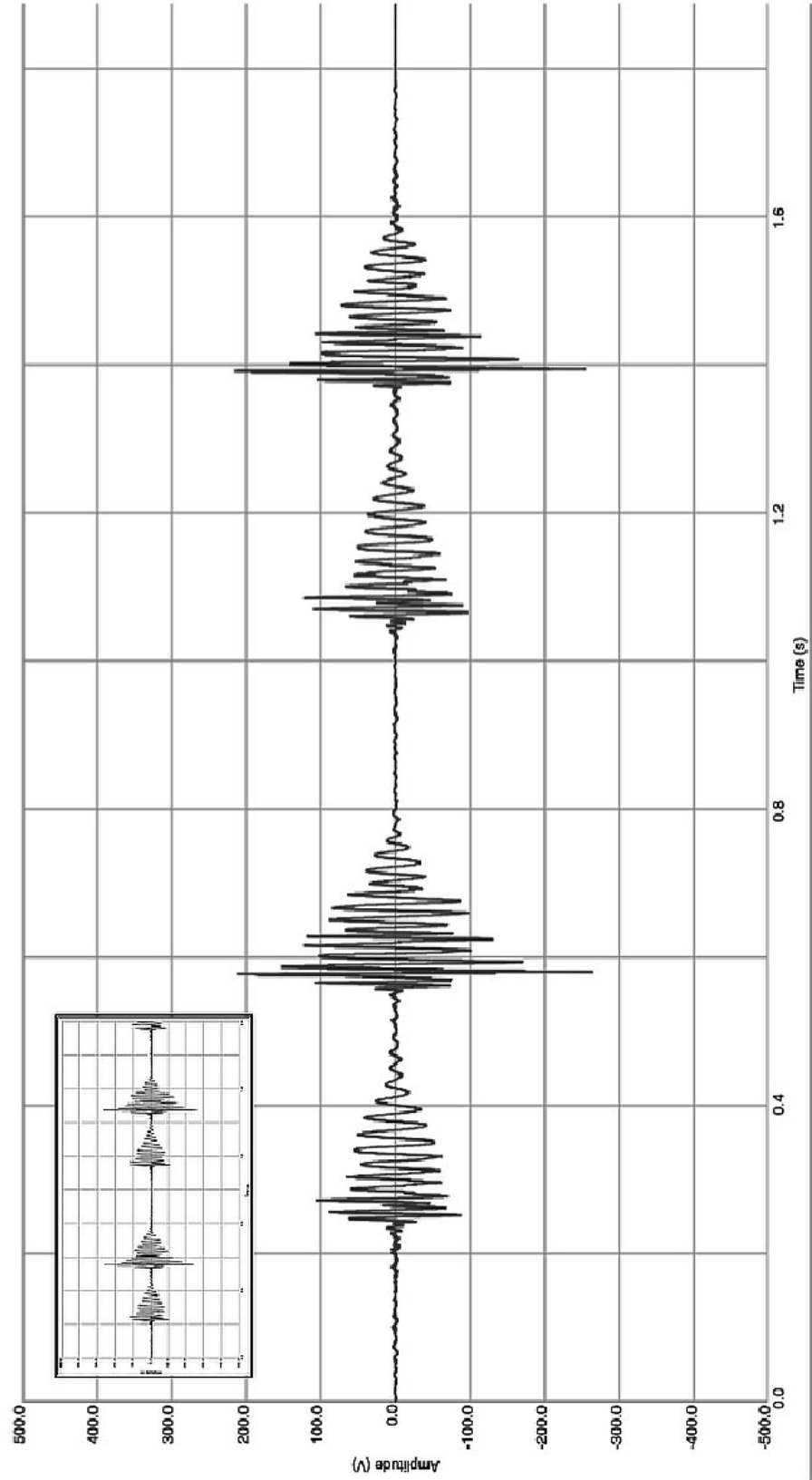


FIG. 10B

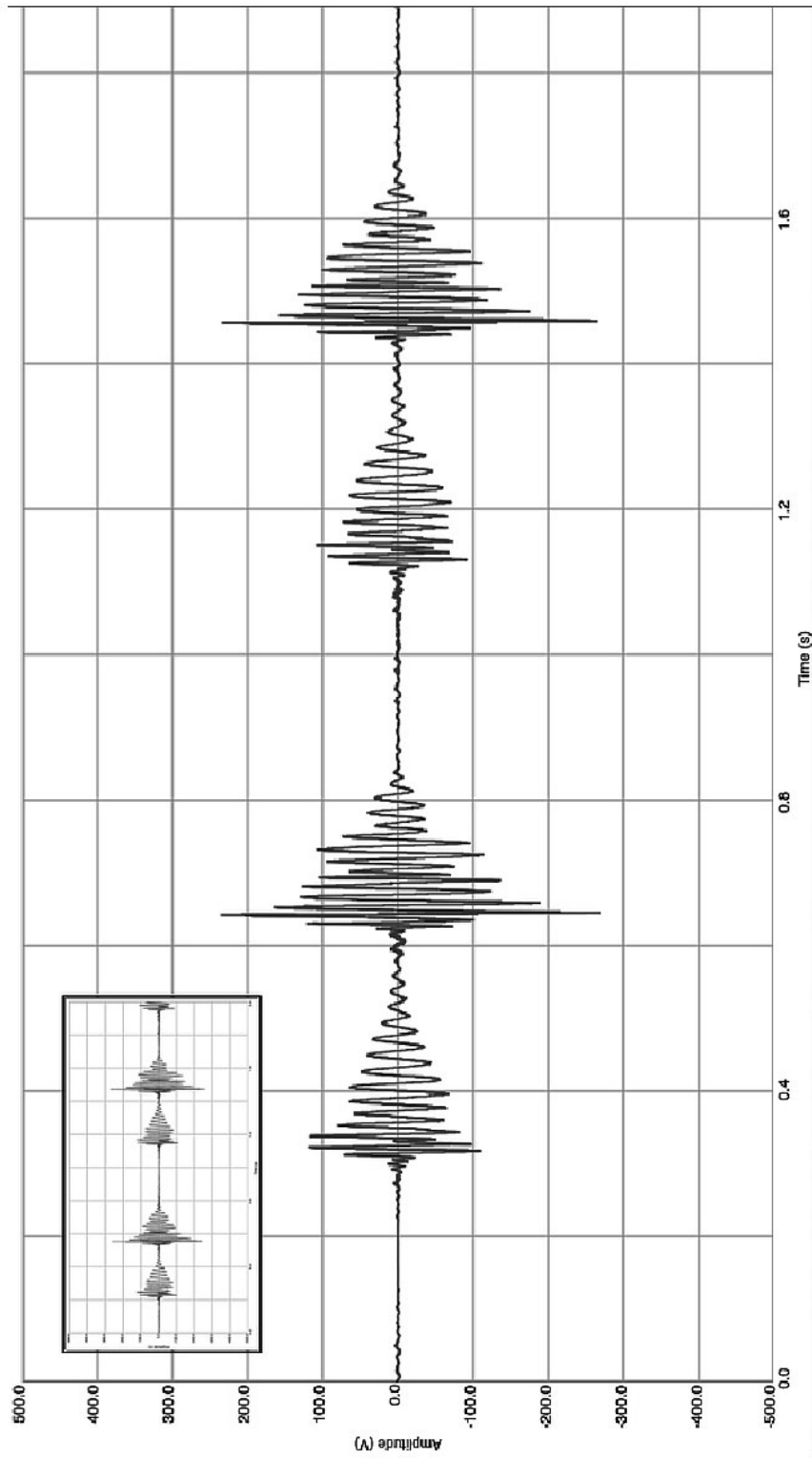


FIG. 10C

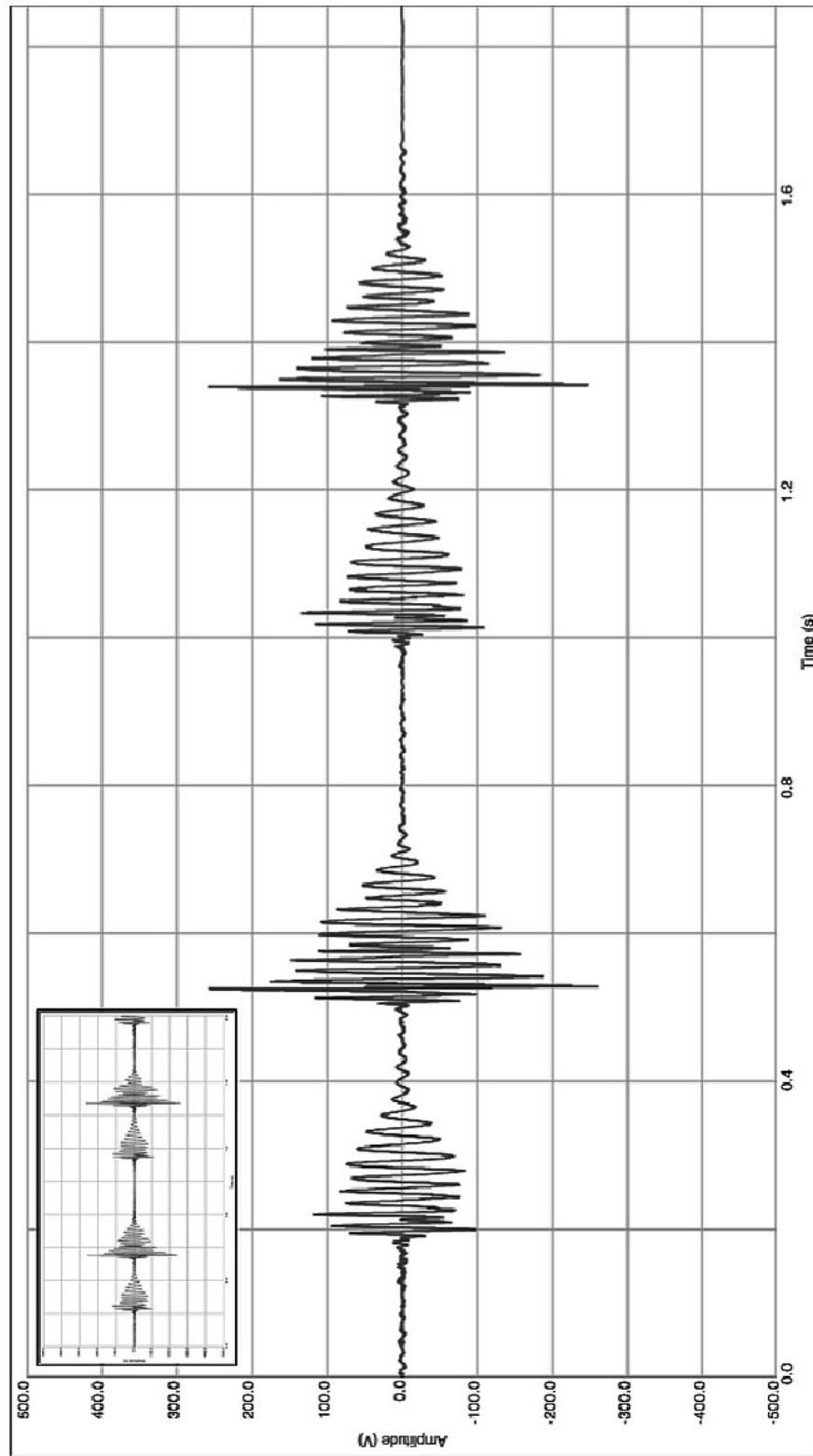


FIG. 10D

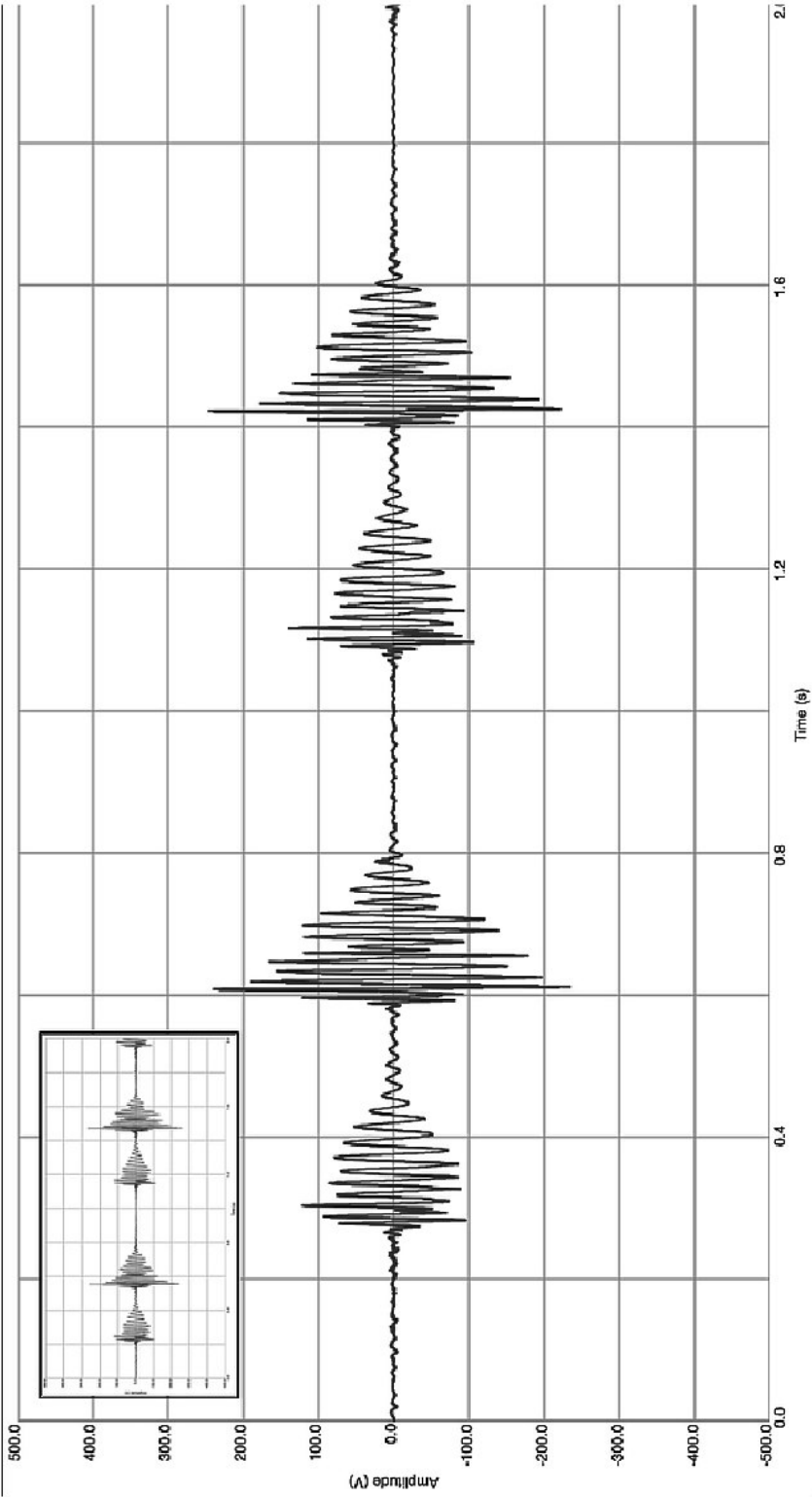


FIG. 10E

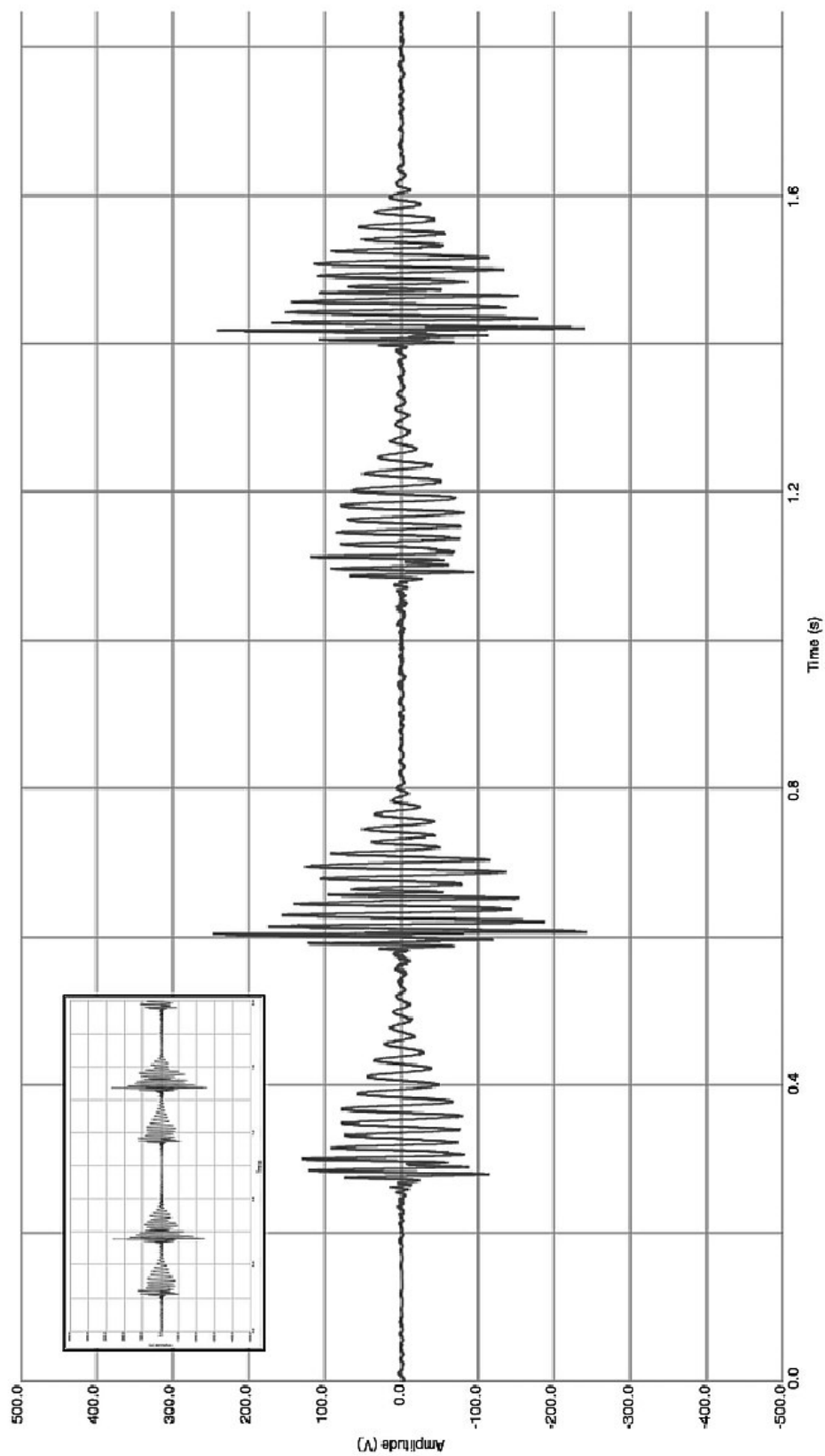


FIG. 10F

MATERIAL	PEAK TO PEAK AMPLITUDE (V)	AMPLITUDE PERCENTAGE REDUCTION DUE TO MATERIAL
A- CONTROL NO COVERING	527.495 V	N/A
D- Thermoplastic Polyurethane e.g. Stethoglove	523.766 V	0.76%
C- Vinyl	503.297 V	4.59%
E- Polyethelene e.g. Stethoguard	492.937 V	6.55%
F- Polyisoprene	489.714 V	7.16%
B – Spun Woven PE e.g. Stethocap	483.553 V	8.33%

A

D

C

E

B

F

FIG. 11

MATERIAL	PEAK TO PEAK AMPLITUDE (V)	AMPLITUDE PERCENTAGE REDUCTION DUE TO MATERIAL
A- CONTROL NO COVERING	334.135 V	N/A
D- Thermoplastic Polyurethane e.g. Stethoglove	328.170 V	1.79%
C- Vinyl	317.975 V	4.83%
F- Polyisoprene	310.762 V	7.01%
E- Polyethelene e.g. Stethoguard	235.872 V	29.4%
B – Spun Woven PE e.g. Stethocap	235.103 V	29.64%

A

D

C

F

E

B

Fig. 12

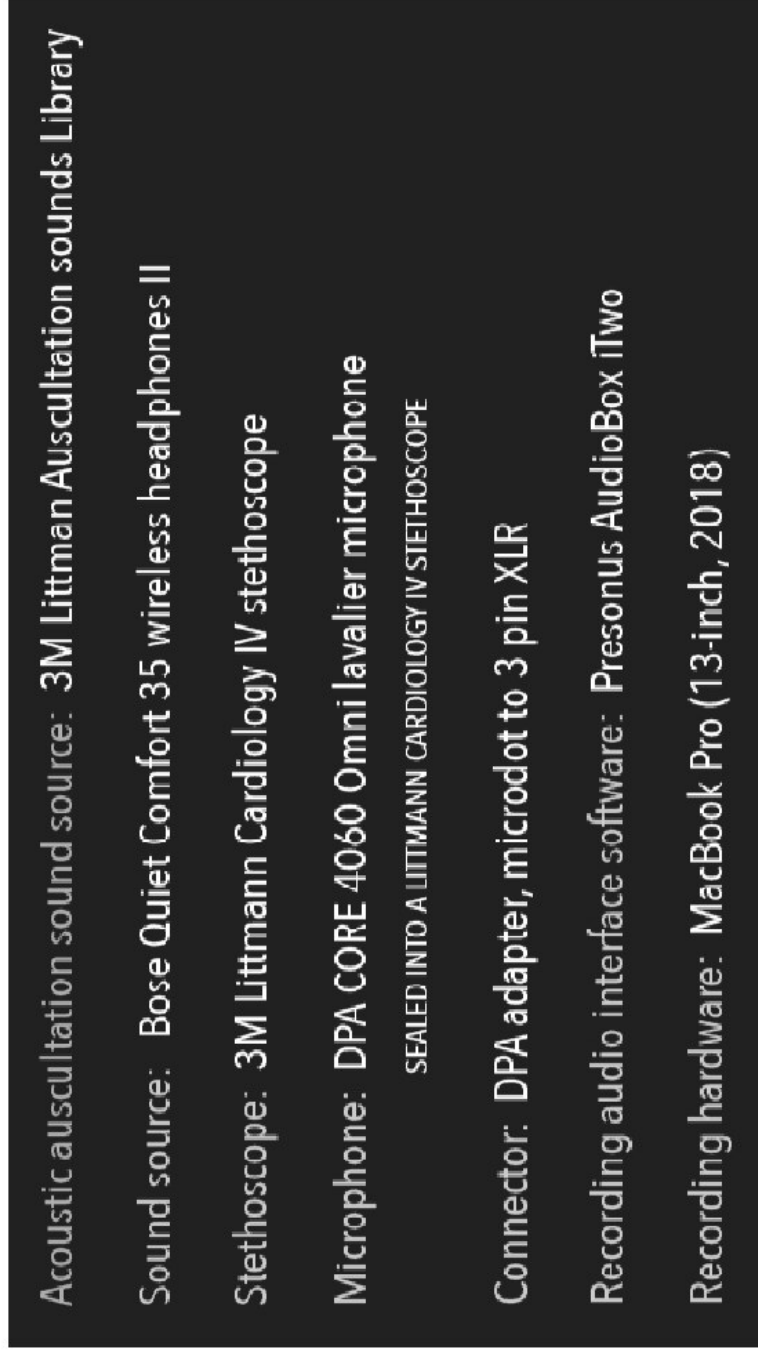


FIG. 13