

# Preset 3: Report example

Trinnov Audio

SRP 5242882

Version 3.4.4+

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Calibration microphone v6-mean

Parameters `parameters2.xml`

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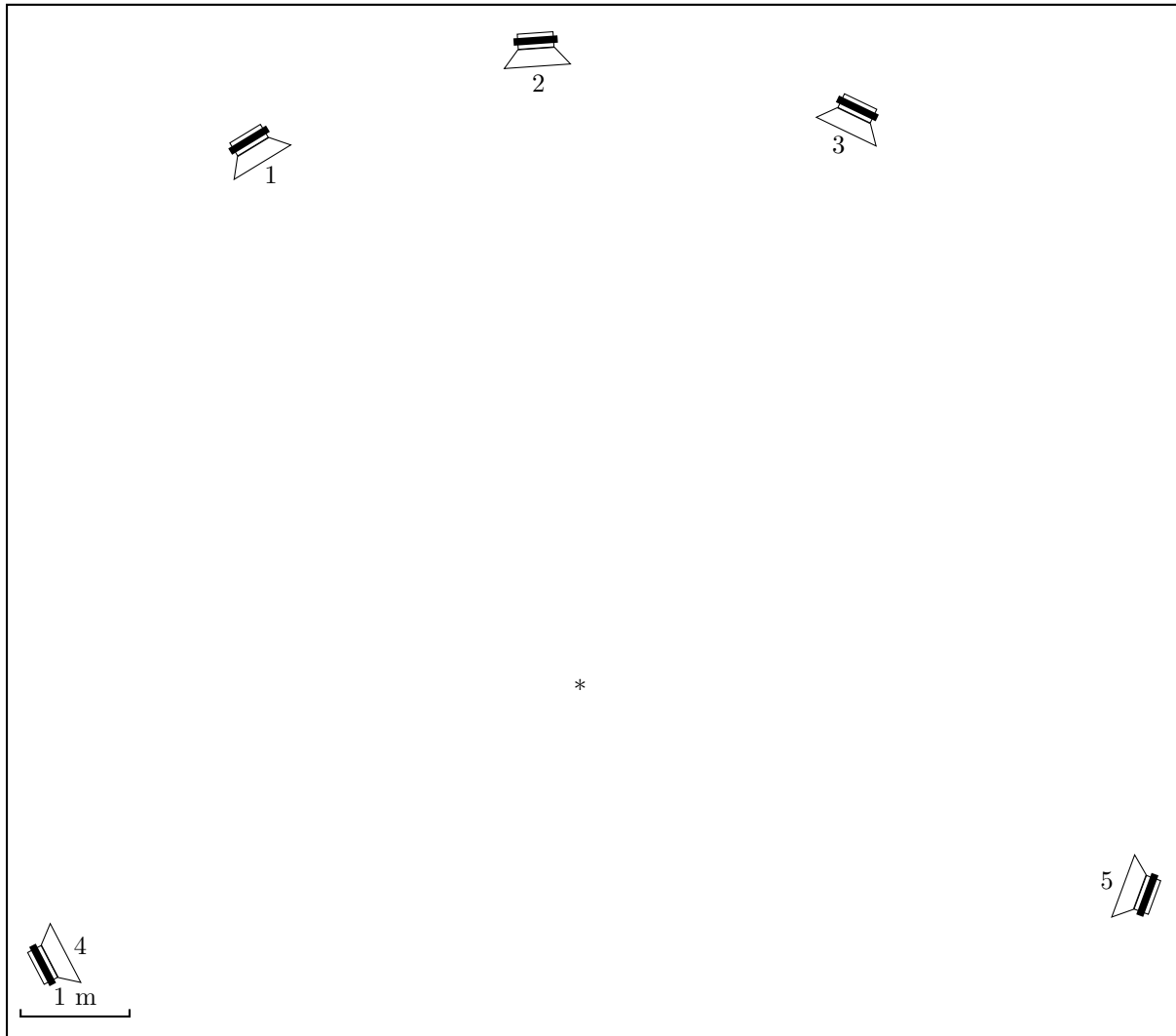
# 1 Settings

<b>General settings</b>	Sample rate	48000
<b>Acoustics correction settings</b>	Optimize Maximum Boost Maximum Attenuation Quantity of Early Reflections Resolution of Energy Response	Amplitude + Phase 6 dB -10 dB 3 cycles 1/2 oct
<b>Display settings</b>	Display smoothing	1/3 oct
<b>Front and surround speaker options</b>	Early reflections correction on Energy response correction on Delay alignment on Add decorrelation on Remapping on	front & surround front & surround front & surround no speaker front & surround
<b>Advanced acoustic correction settings</b>	Use filters High-Pass filter frequency	FIR+IIR Disabled
<b>Optimize according to LR speakers settings</b>	Processing on LR speakers	IIR Only
<b>FIR and IIR settings</b>	FIR filters length Number of IIR filters IIR filters minimal frequency IIR filters maximal frequency	20 ms 15 20 Hz 300 Hz
<b>Level alignment settings</b>	Weighting used for levels Width of level window Maximum gain on speakers Minimum gain on speakers Minimal bandwidth frequency Maximal bandwidth frequency	dBC Disabled 10 dB -20 dB 10 Hz Unlimited
<b>Subwoofer low-pass filter settings</b>	Cutoff frequency Filter type Filter order Rp value (for elliptic filter) Rs value (for elliptic filter)	Disabled Butterworth 4 0.1 dB 80 dB
<b>Decimation settings</b>	Decimation factor Decimation mode Antialiasing filter order Antialiasing filter cutoff Antialiasing filter Rp Antialiasing filter Rs	1 FIR only 8 19/24 x Fs/2 0.03 dB 100 dB
<b>Advanced FIR settings</b>	FIR reference Number of parts for sponv	Automatic Automatic

Target curves are shown as dotted lines on the *After correction* plot of each speaker. Please note that the curves representing the speaker responses after correction also include the FIR EQ if it is activated, but they do not include any graphic EQ.

## 2 Speaker layout

### 2.1 Top view representation



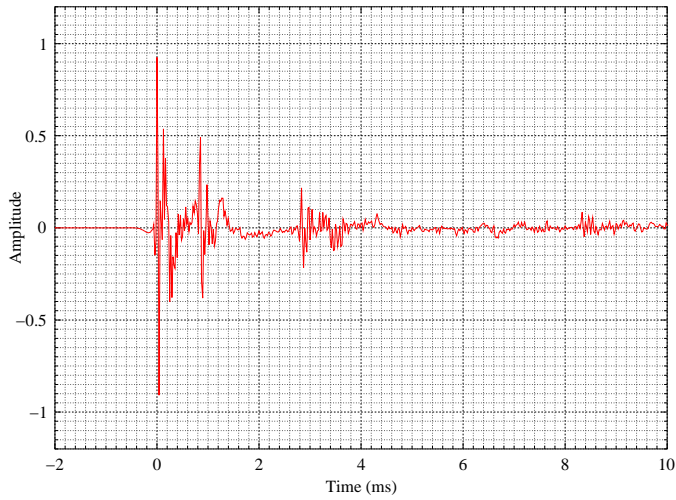
### 2.2 Speaker Information

Speaker	Distance	Elevation	Azimuth	Level (dBFS, A-weighted)	Delay	Bass Management Delay	Delay Compensation	Polarity <sup>1</sup>	Crest Factor
1	5.87 m	3.8°	31.3°	-54.2 dB	17.10 ms	1.08 ms	11.38 ms	+	34.5 dB
2	5.94 m	3.9°	4.0°	-55.2 dB	17.33 ms	1.08 ms	11.15 ms	+	34.7 dB
3	5.89 m	4.4°	-25.7°	-55.0 dB	17.17 ms	1.08 ms	11.31 ms	+	34.3 dB
4	5.64 m	9.5°	117.5°	-57.2 dB	16.44 ms	1.08 ms	12.04 ms	+	34.9 dB
5	5.60 m	8.0°	-110.3°	-57.4 dB	16.33 ms	1.08 ms	12.15 ms	+	34.6 dB
Sub 1	9.42 m	N/A	N/A	-59.3 dB	27.40 ms	0.00 ms	0.00 ms	-	23.4 dB

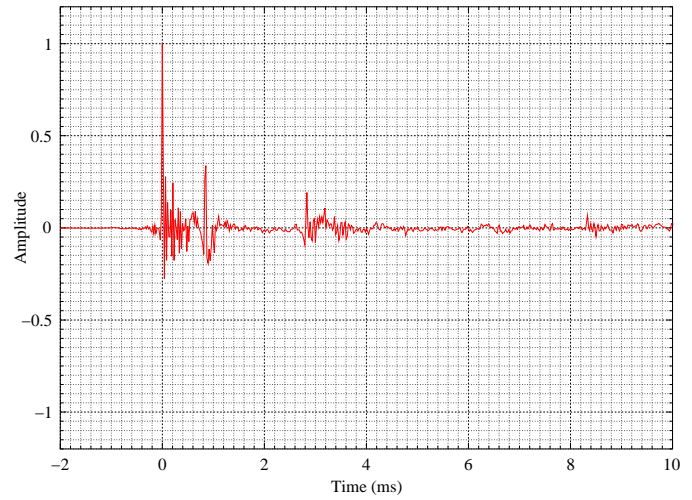
<sup>1</sup>In *Amplitude+Phase* optimization mode, speaker polarity is corrected by the phase optimization and is generally not indicated here. In *Amplitude* optimization mode, this column reflects measured polarity, which is corrected separately.

### 3 Speaker 1 (Loudspeaker at 5.87 m, elevation is 4°, azimuth is 31°)

#### 3.1 Impulse response

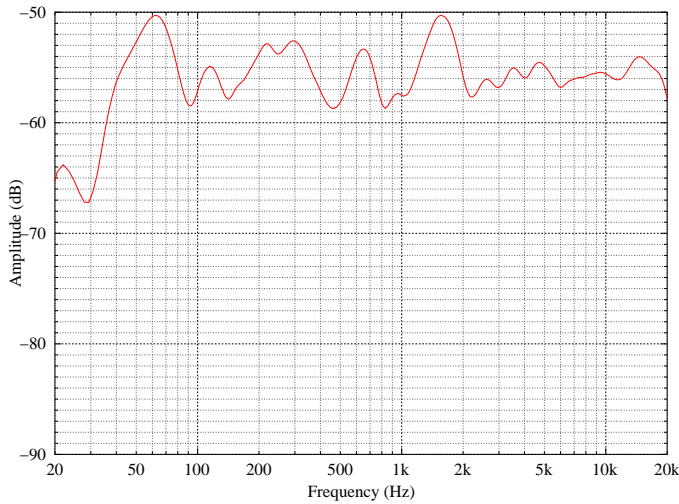


Before correction

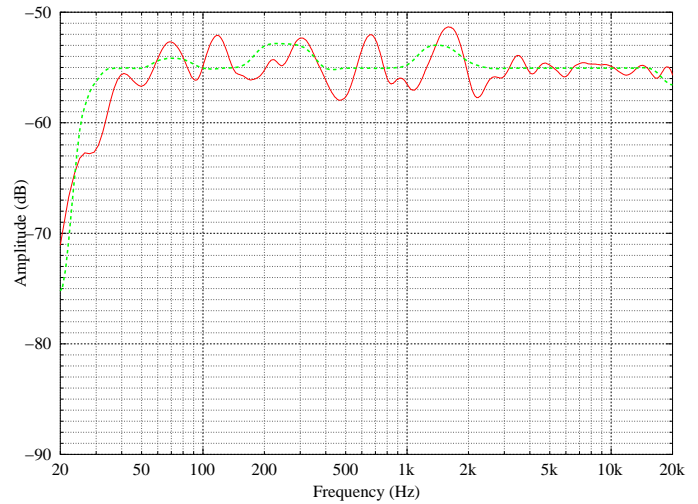


After correction

#### 3.2 Frequency response

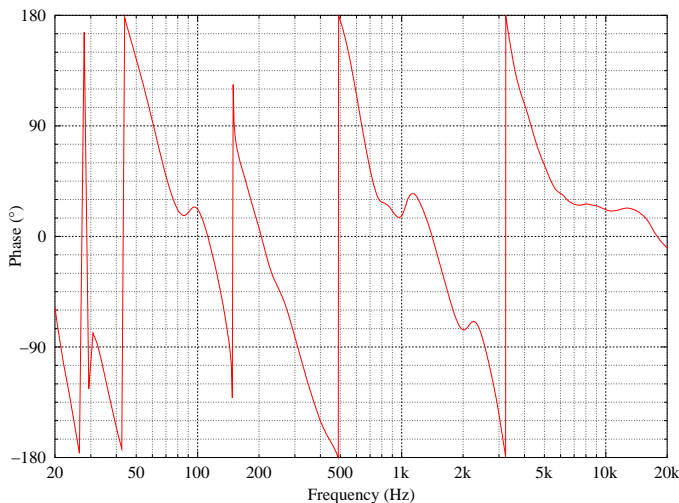


Before correction

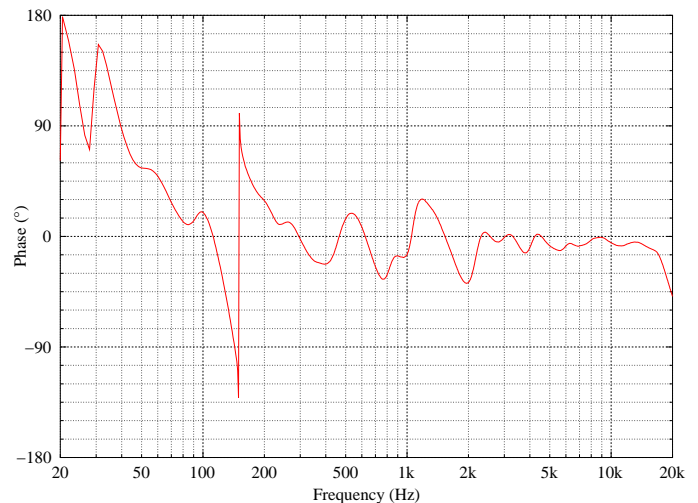


After correction

#### 3.3 Phase response



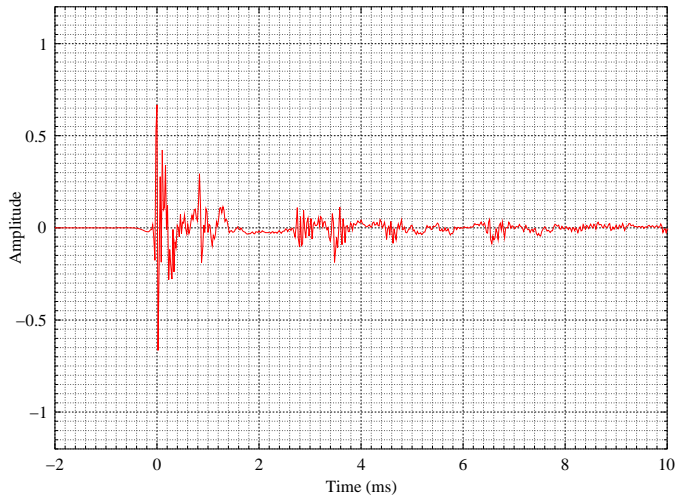
Before correction



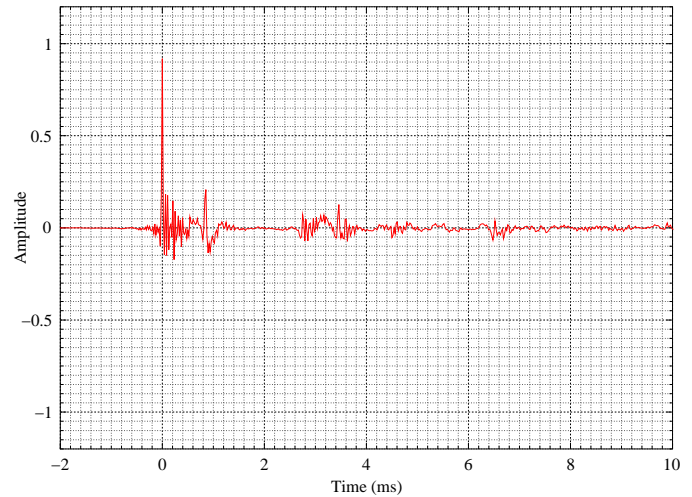
After correction

## 4 Speaker 2 (Loudspeaker at 5.94 m, elevation is 4°, azimuth is 4°)

### 4.1 Impulse response

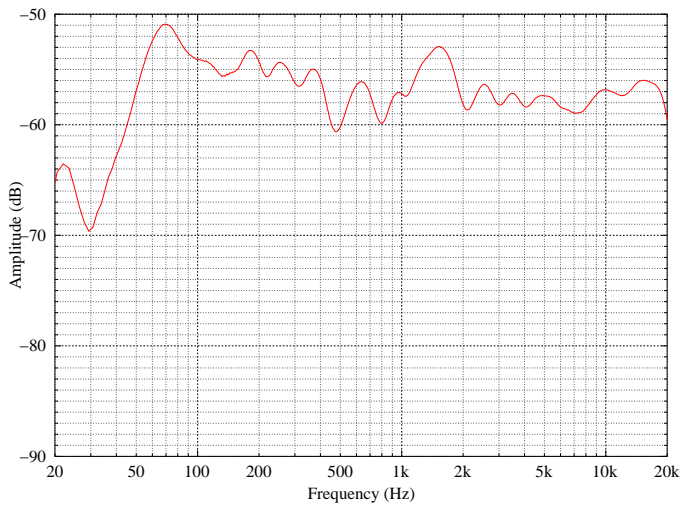


Before correction

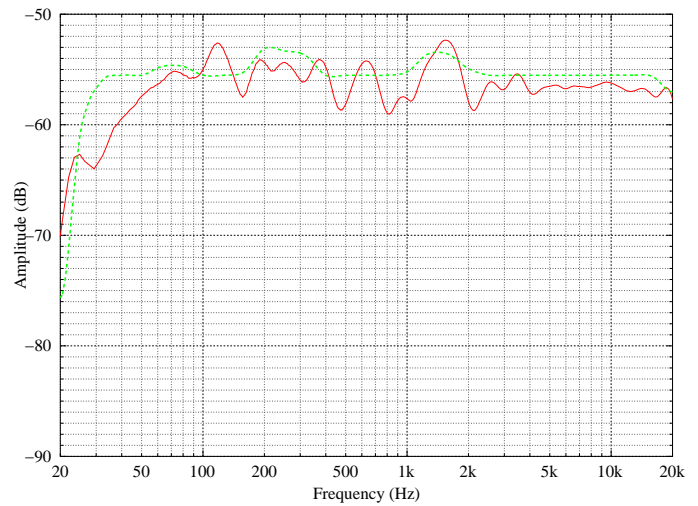


After correction

### 4.2 Frequency response

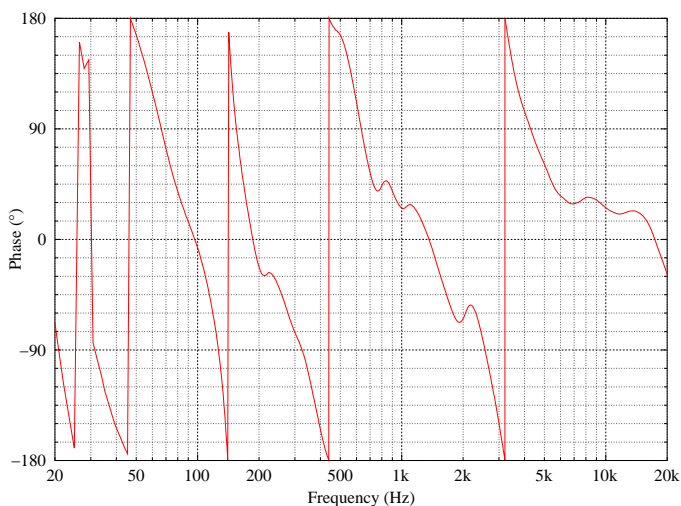


Before correction

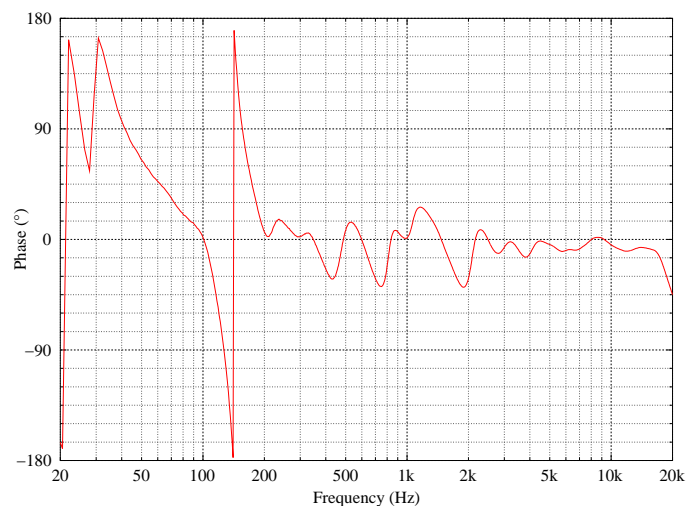


After correction

### 4.3 Phase response



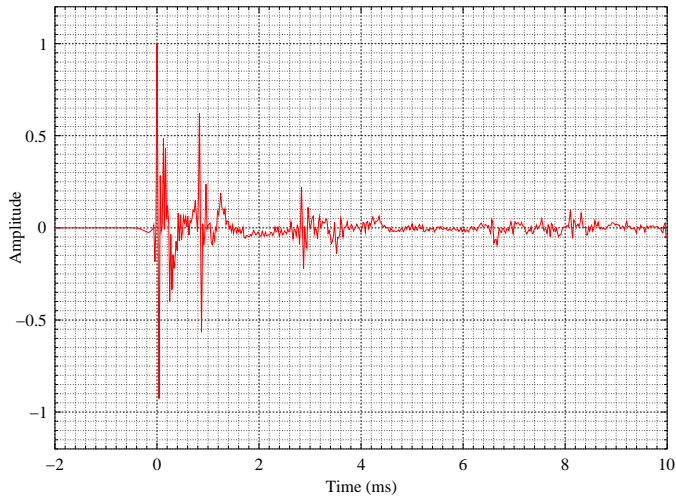
Before correction



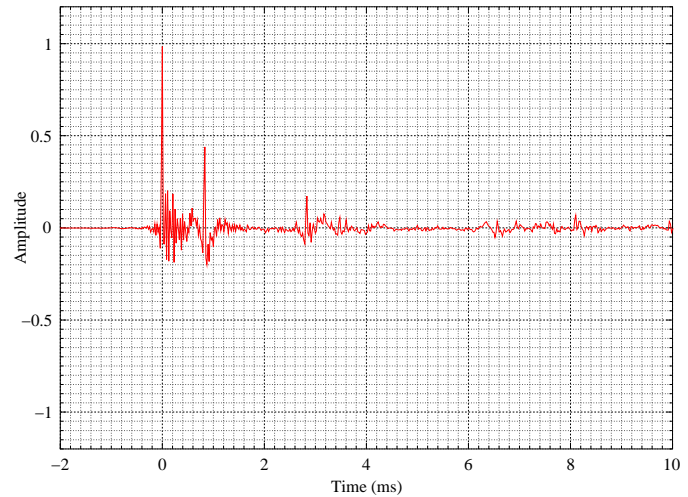
After correction

## 5 Speaker 3 (Loudspeaker at 5.89 m, elevation is $4^\circ$ , azimuth is $-26^\circ$ )

### 5.1 Impulse response

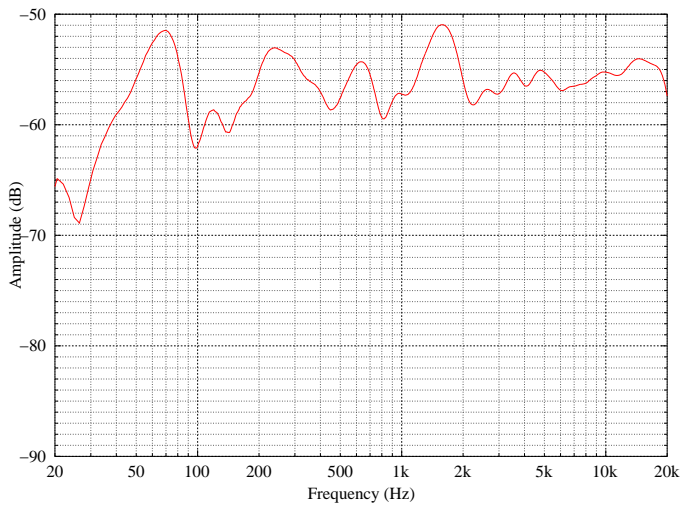


Before correction

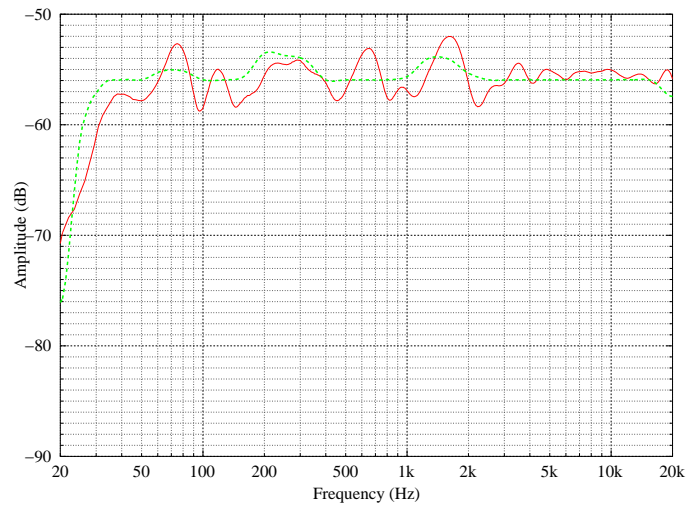


After correction

### 5.2 Frequency response

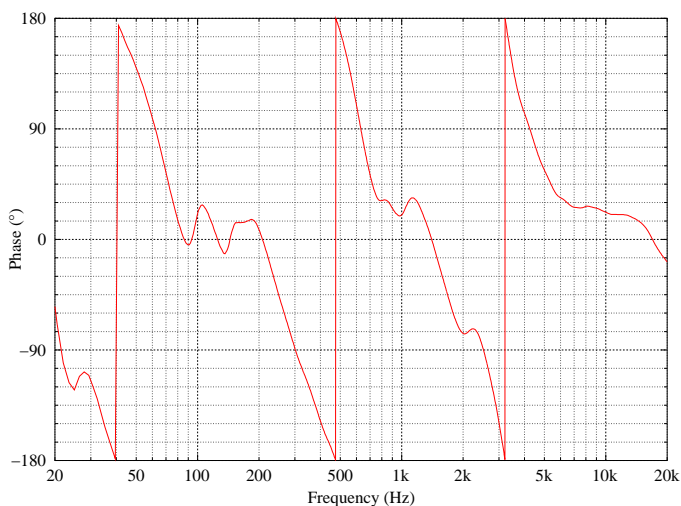


Before correction

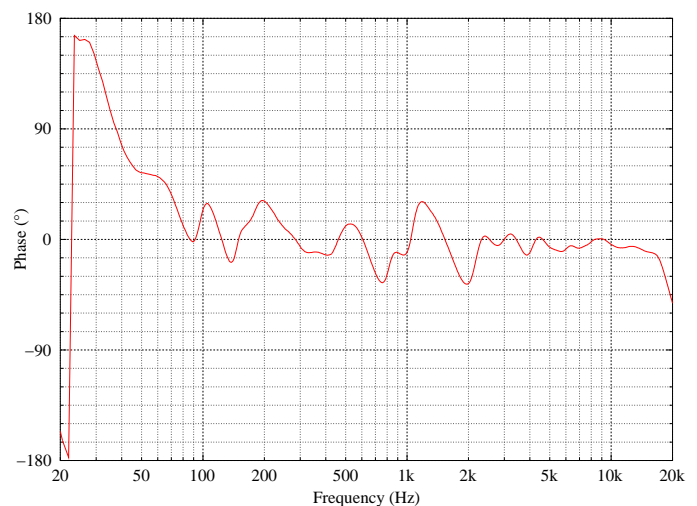


After correction

### 5.3 Phase response



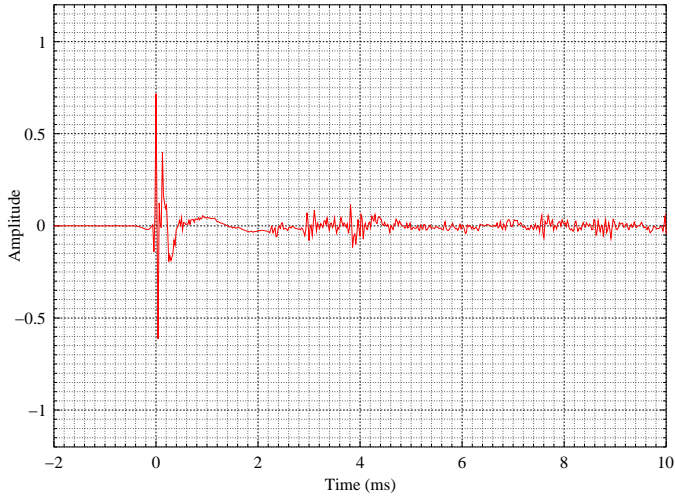
Before correction



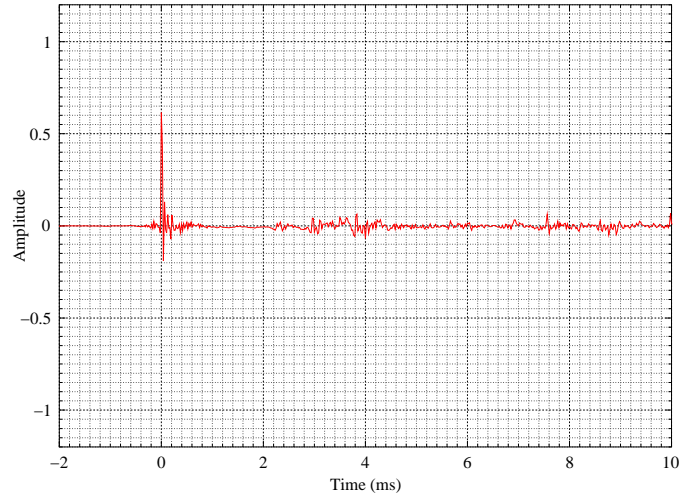
After correction

## 6 Speaker 4 (Loudspeaker at 5.64 m, elevation is $10^\circ$ , azimuth is $117^\circ$ )

### 6.1 Impulse response

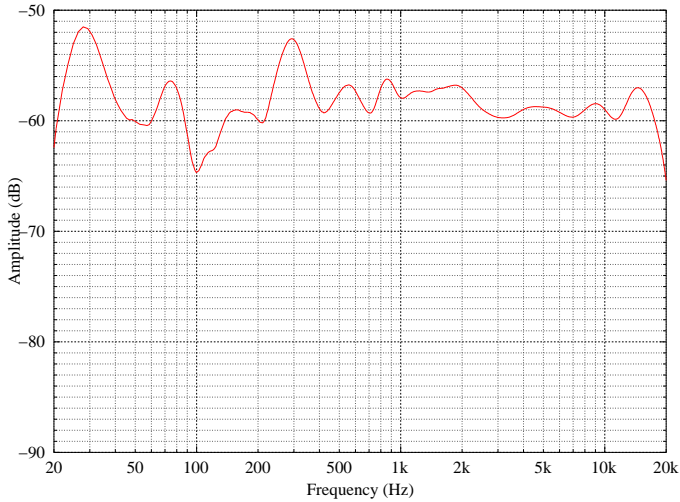


Before correction

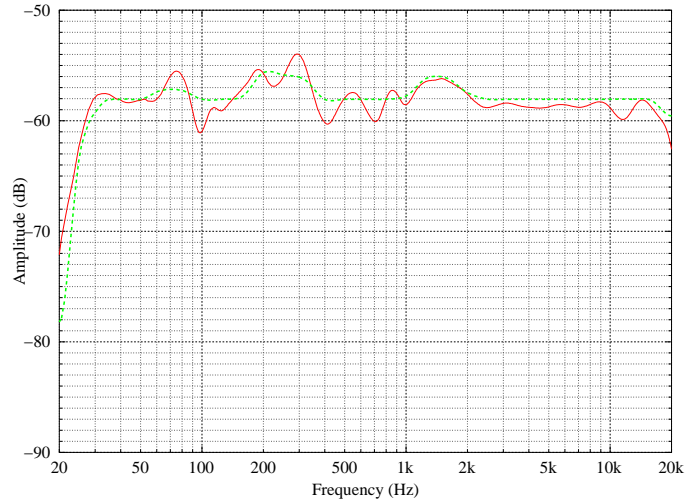


After correction

### 6.2 Frequency response

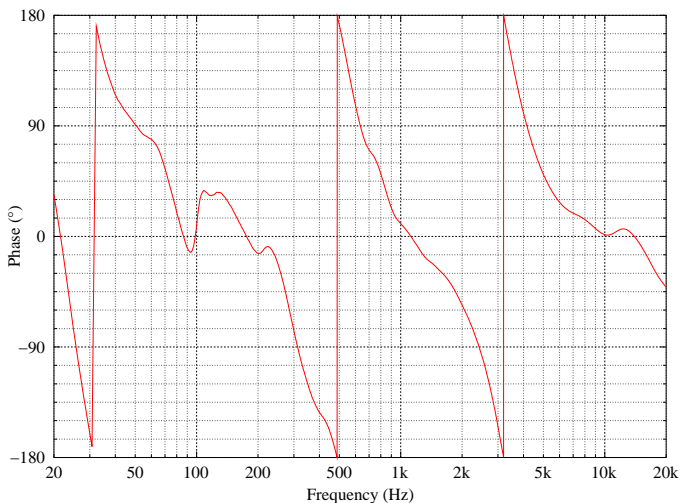


Before correction

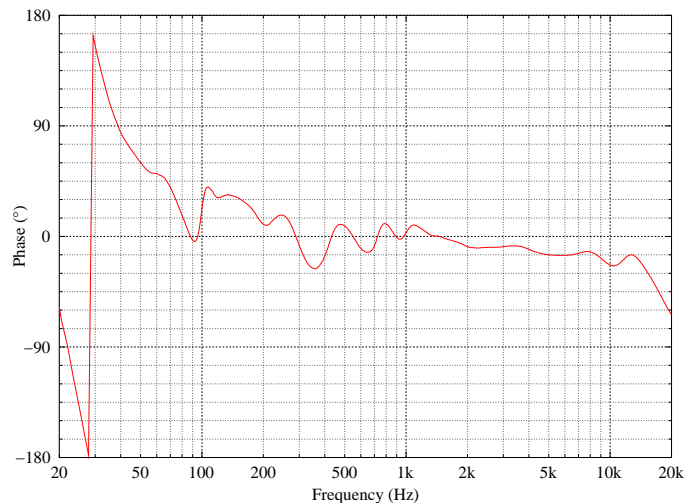


After correction

### 6.3 Phase response



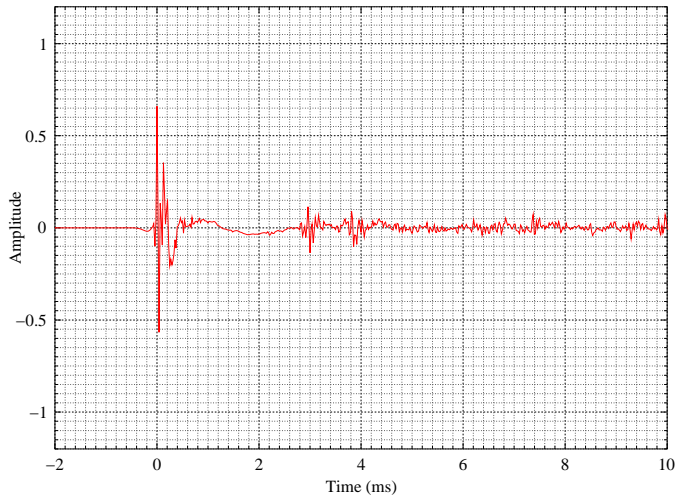
Before correction



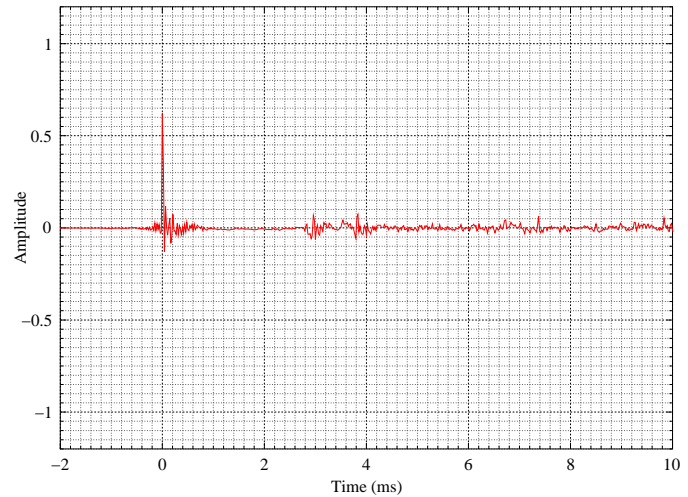
After correction

## 7 Speaker 5 (Loudspeaker at 5.60 m, elevation is $8^\circ$ , azimuth is $-110^\circ$ )

### 7.1 Impulse response

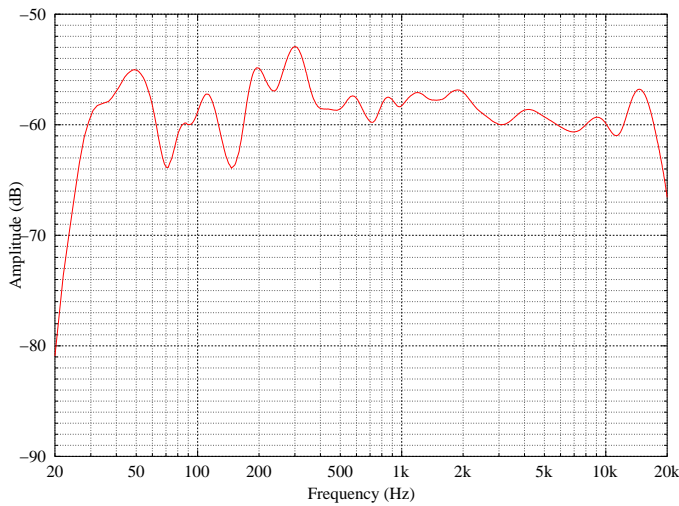


Before correction

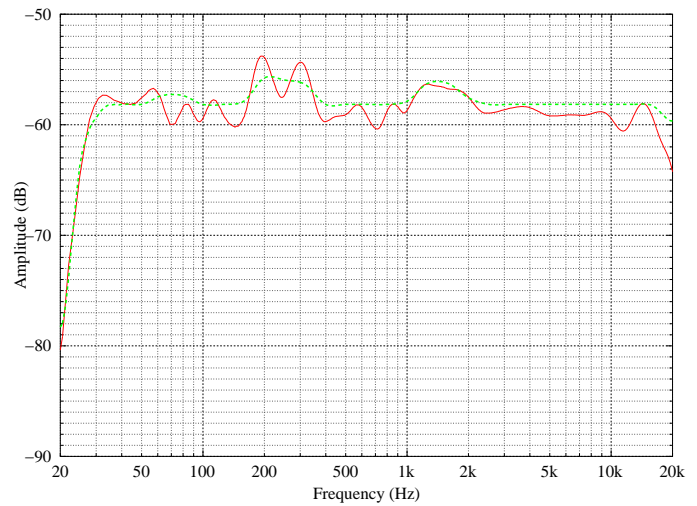


After correction

### 7.2 Frequency response

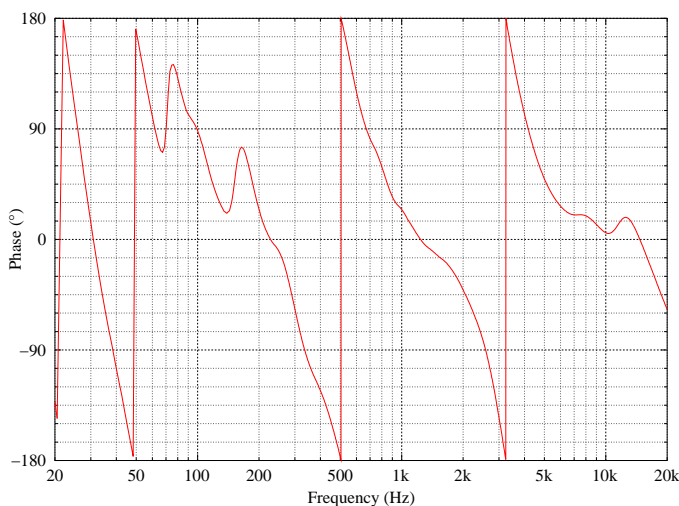


Before correction

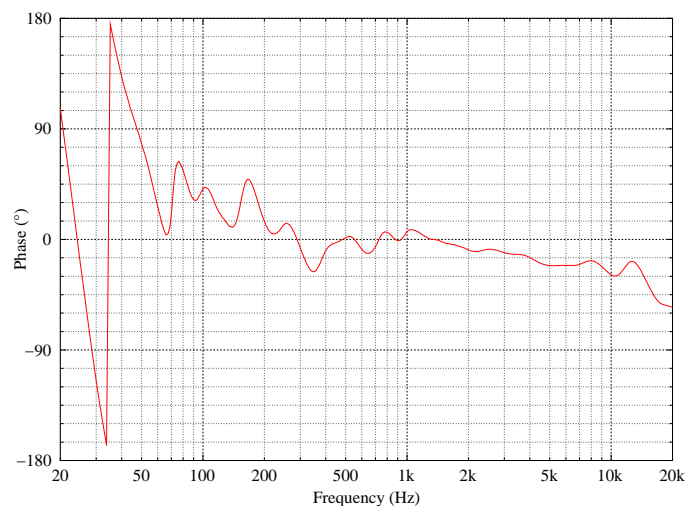


After correction

### 7.3 Phase response



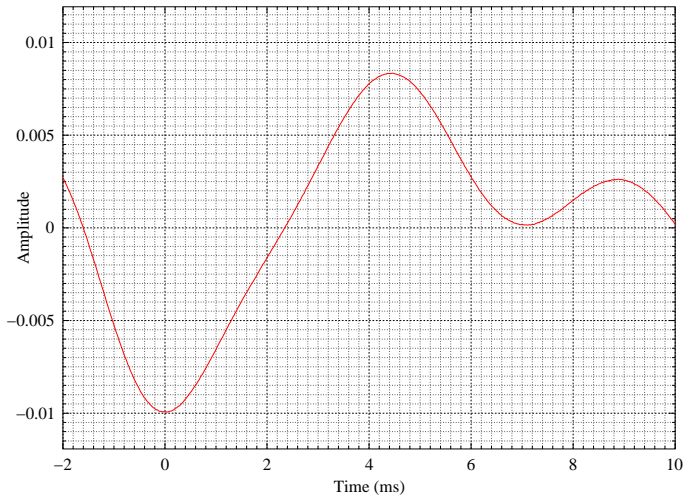
Before correction



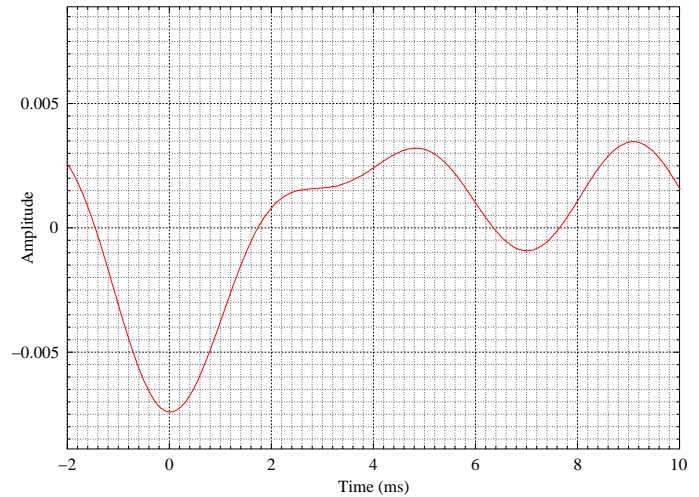
After correction

## 8 Speaker 6 (Subwoofer at 9.42 m)

### 8.1 Impulse response

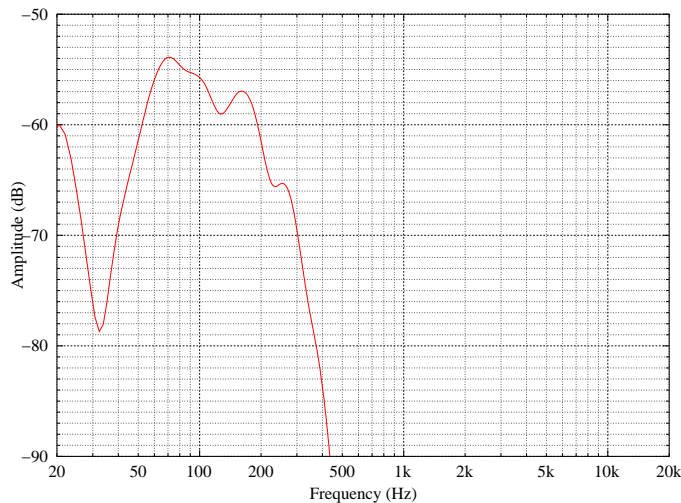


Before correction

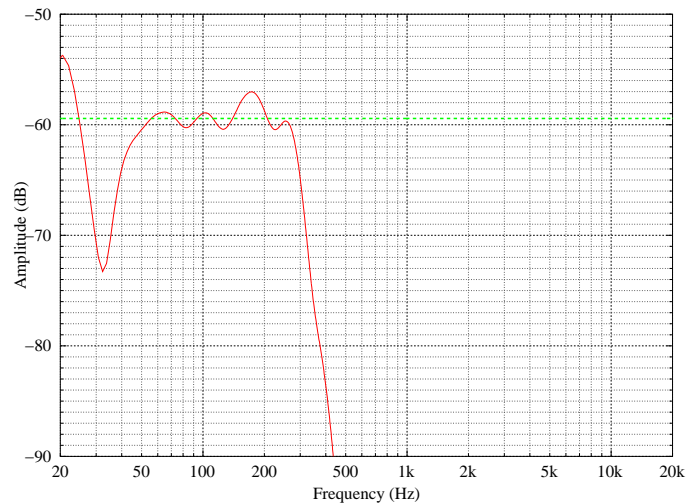


After correction

### 8.2 Frequency response

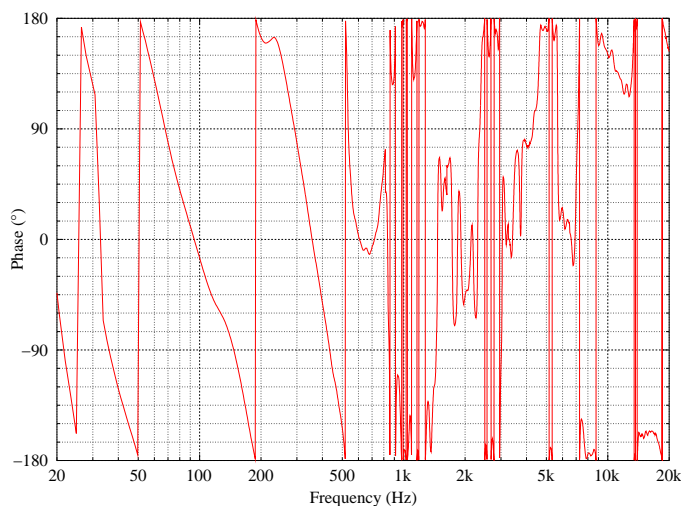


Before correction

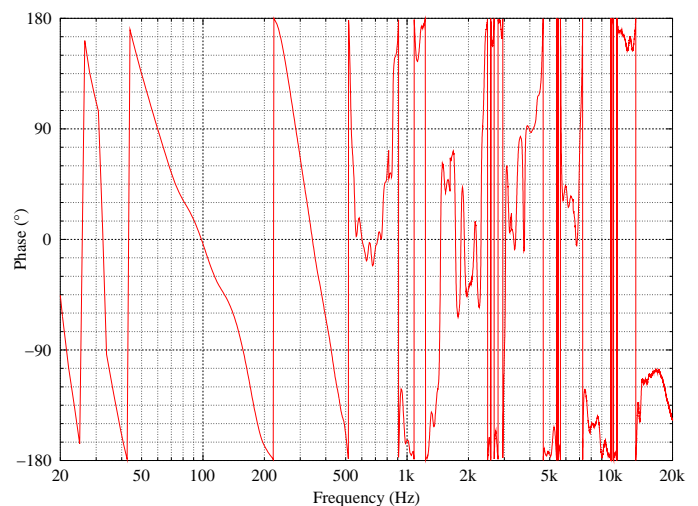


After correction

### 8.3 Phase response



Before correction



After correction