



## Report of THE6 PASSIVE ON WALL

**ASCENDO**

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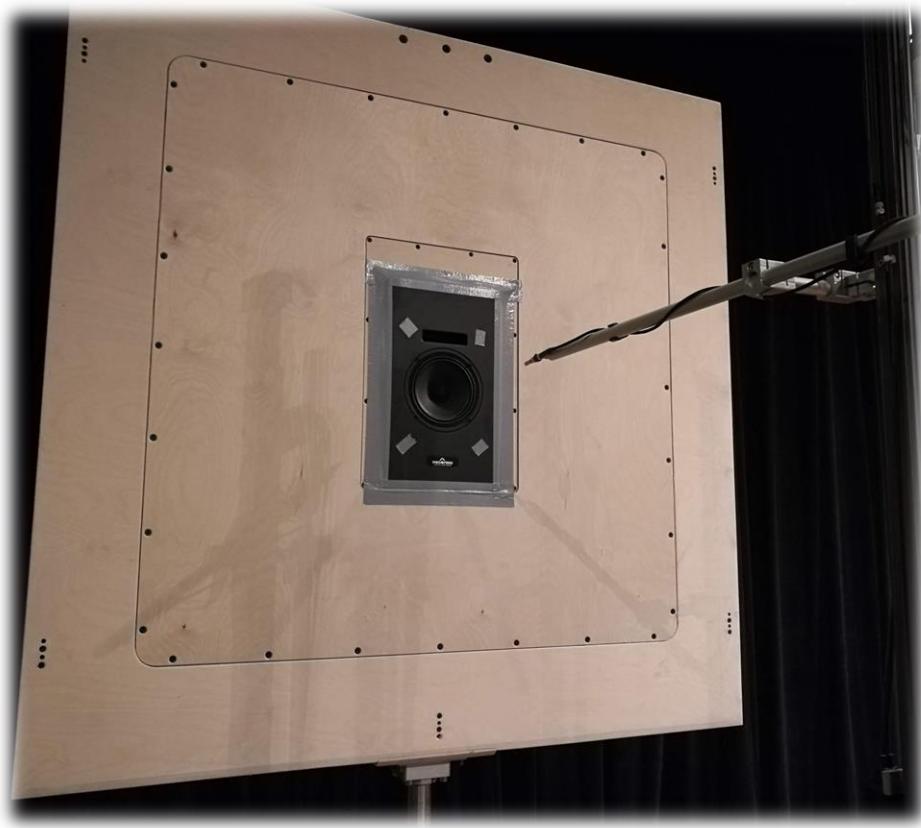
Date	Author	Changes	Version
10/11/2021	GL		V1
20/11/2021	GL	THD BURST SCALE	V1_REV1

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## Summary

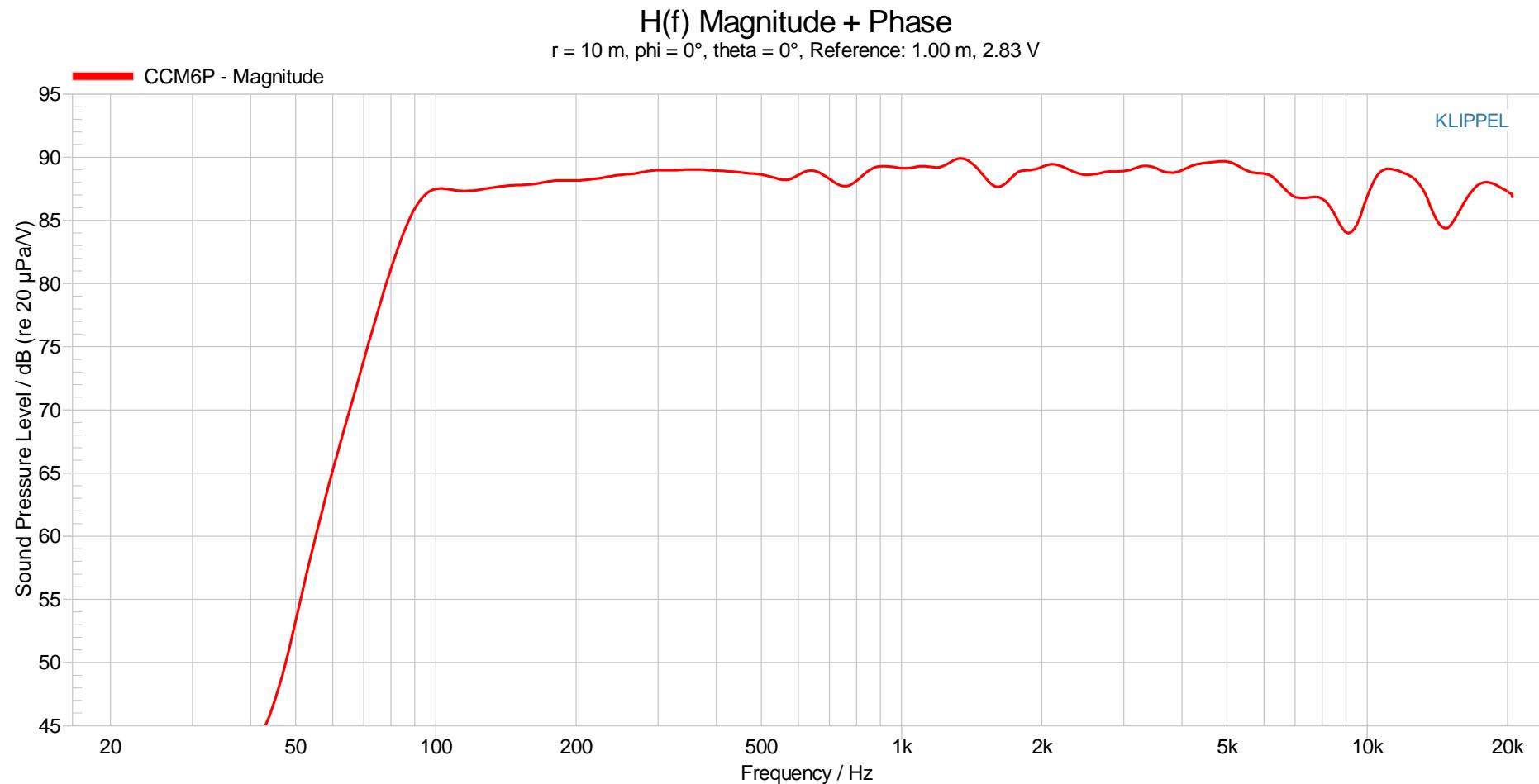
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## 1.Pictures of measurements



## 2. Frequency Response

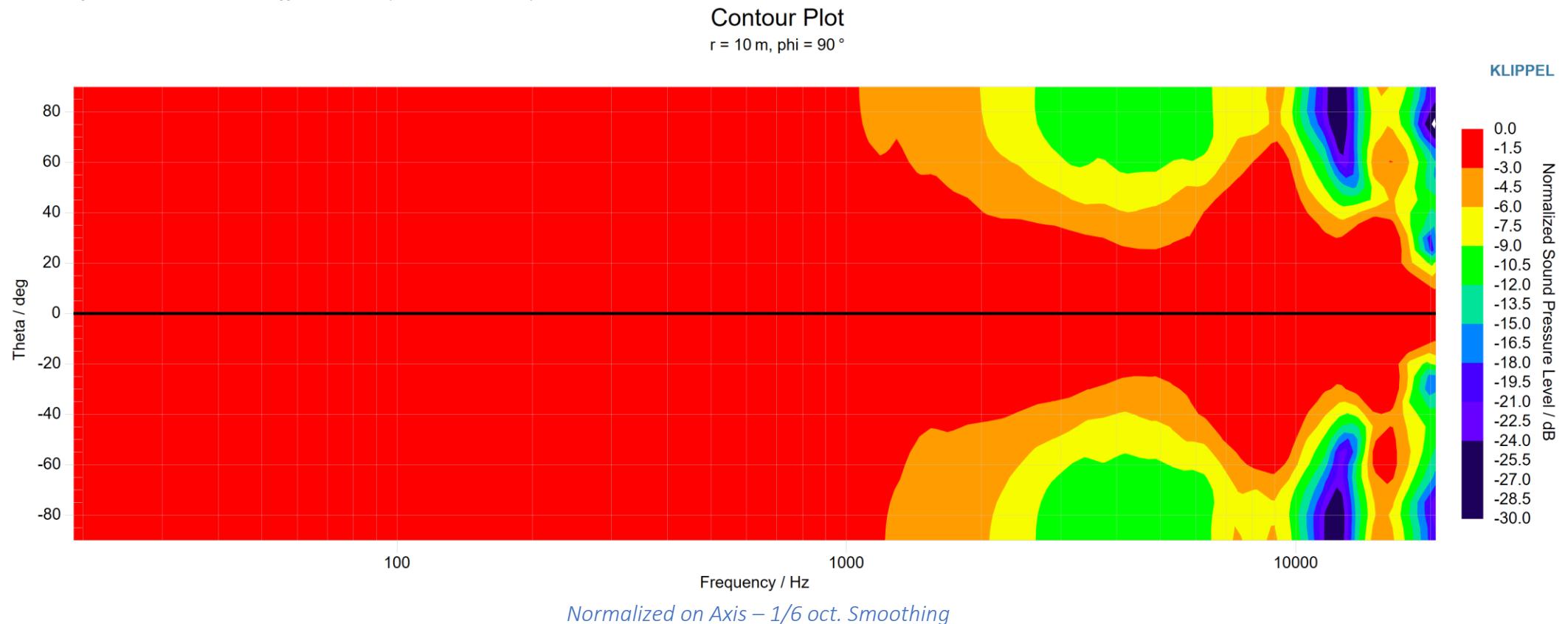
2,83v @1m – 1/6 oct. Smoothing



### 3. Contour Plot

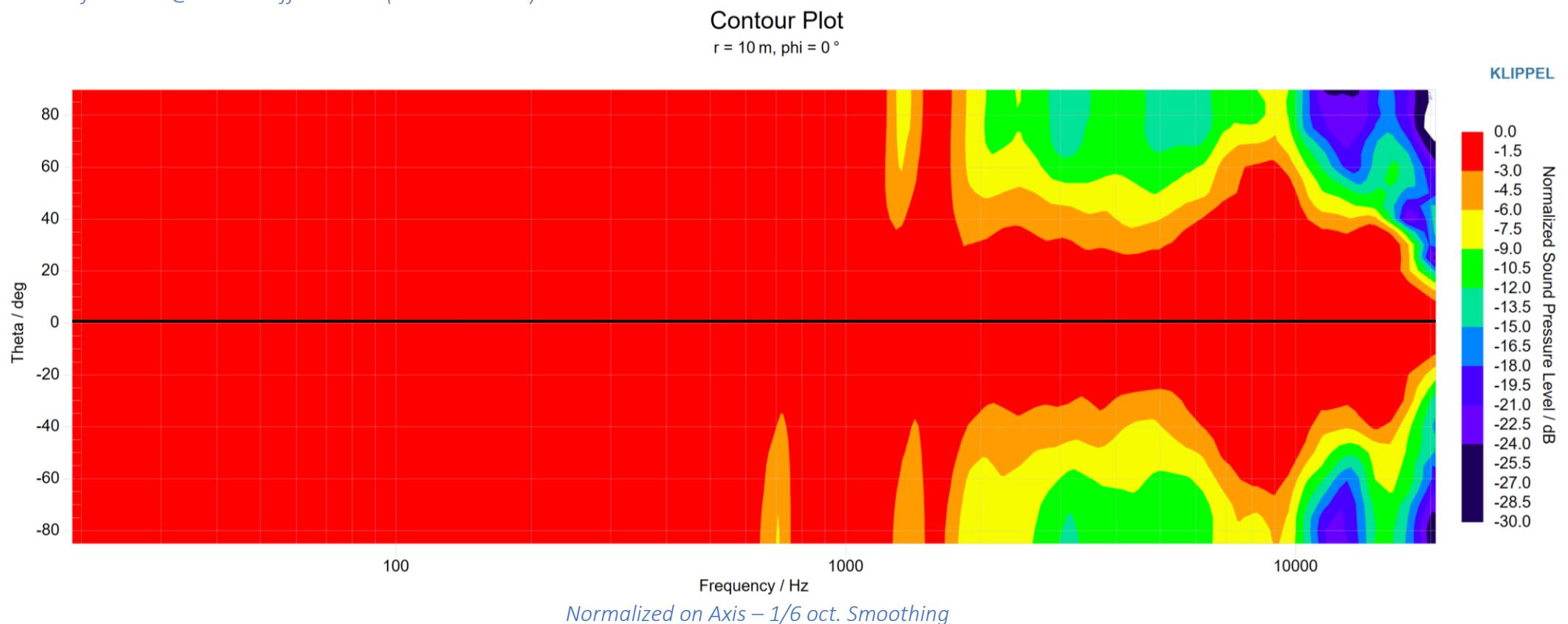
#### 3.1. Horizontal

Referenced @10m – Baffle loaded ( $2\pi$  steradians)



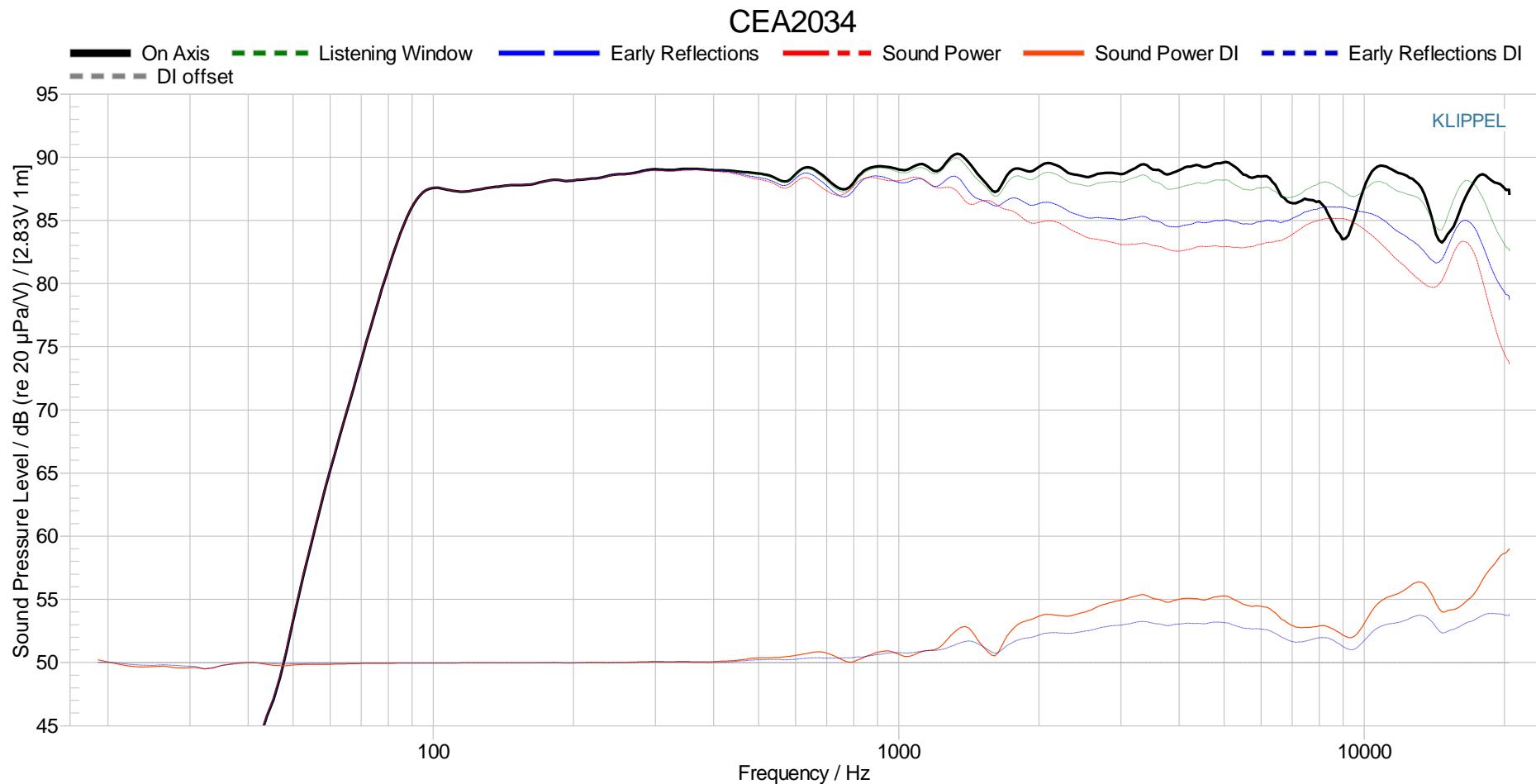
### 3.2. Vertical

Referenced @10m – Baffle loaded ( $2\pi$  steradians)



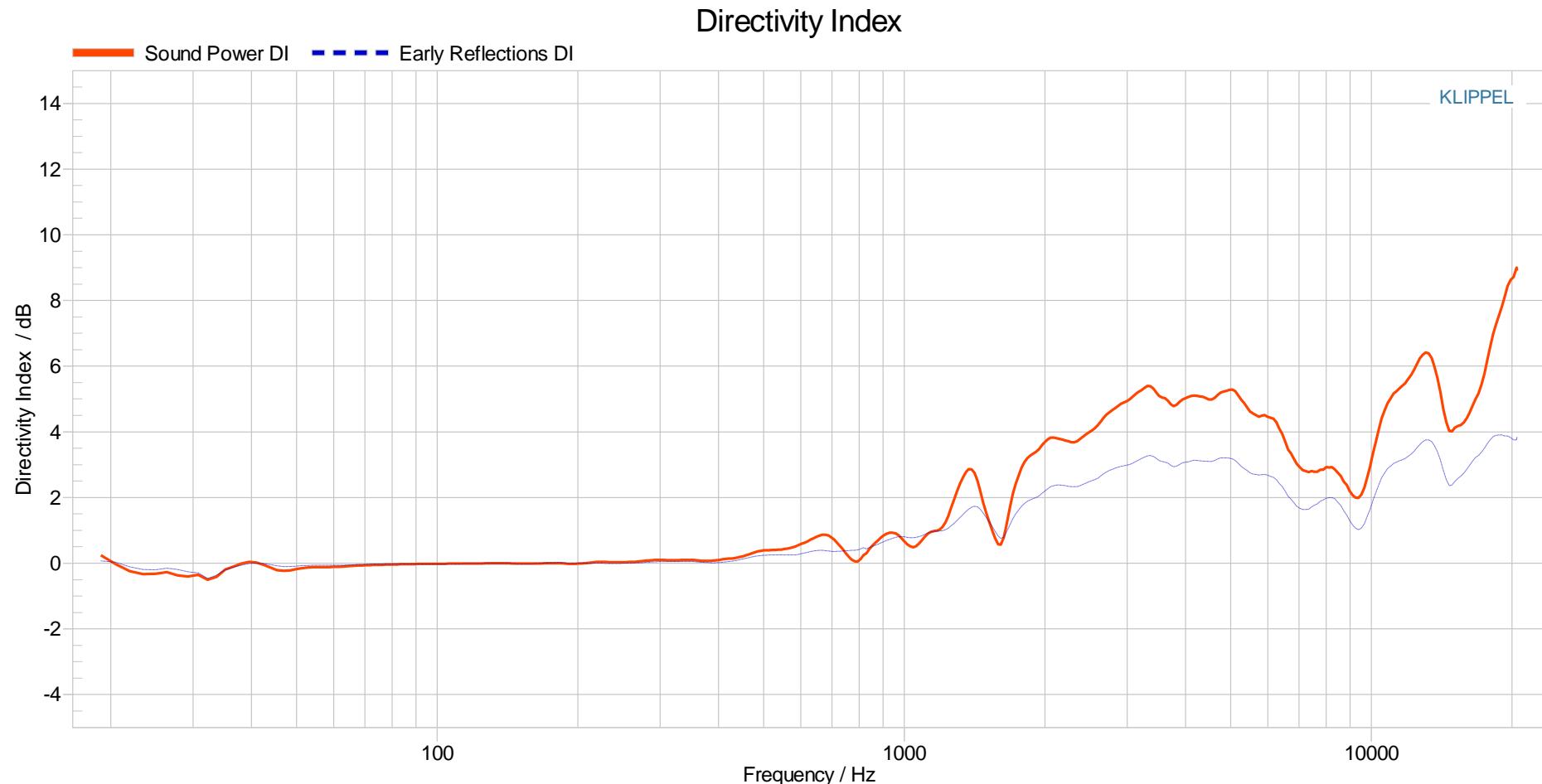
## 4. CEA2034 Spinorama

2,83v @1m – 1/6 oct. Smoothing



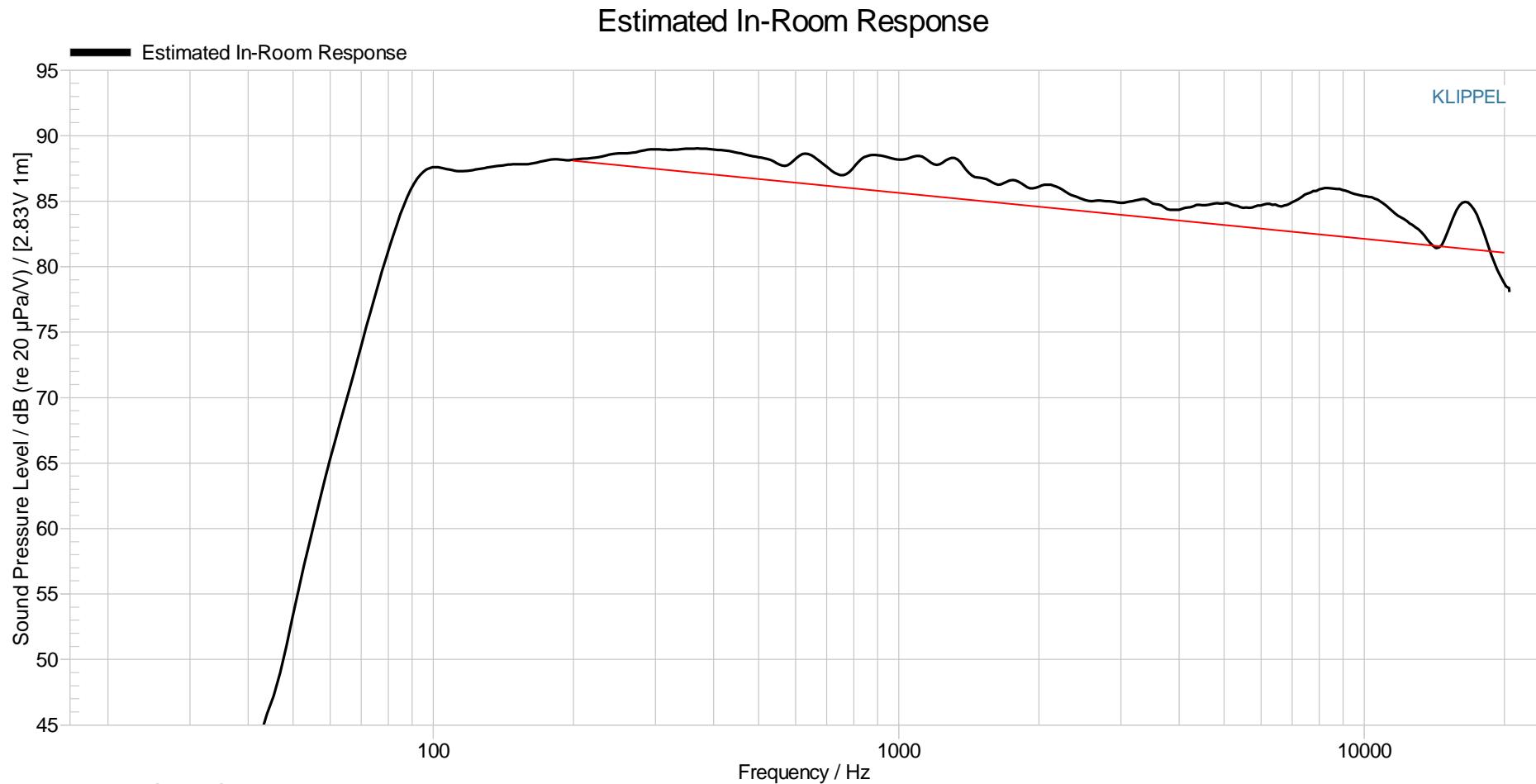
## 4.1. Directivity Index

*1/6 oct. Smoothing*



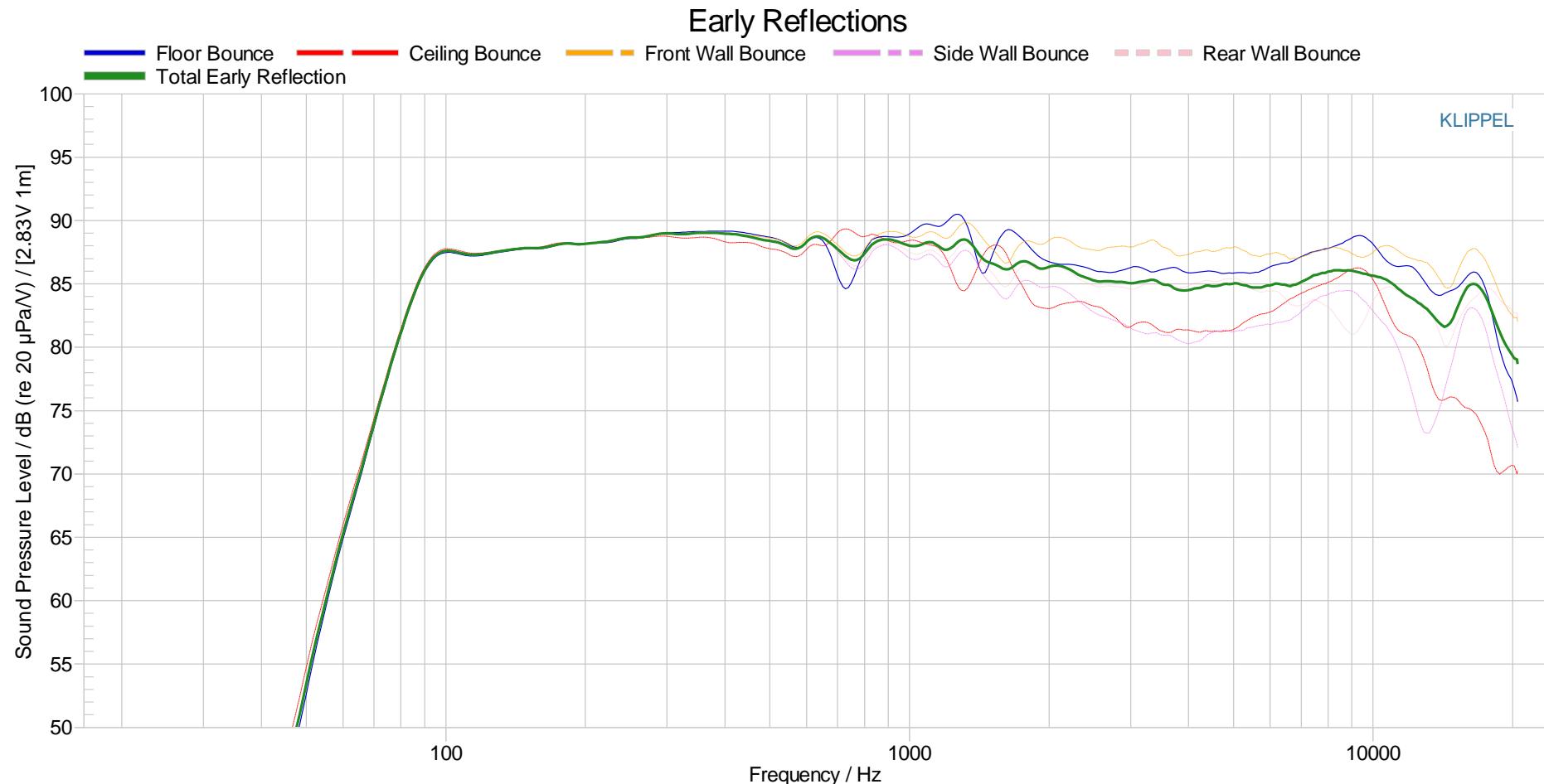
## 4.2. In-Room response

*1/6 oct. Smoothing*



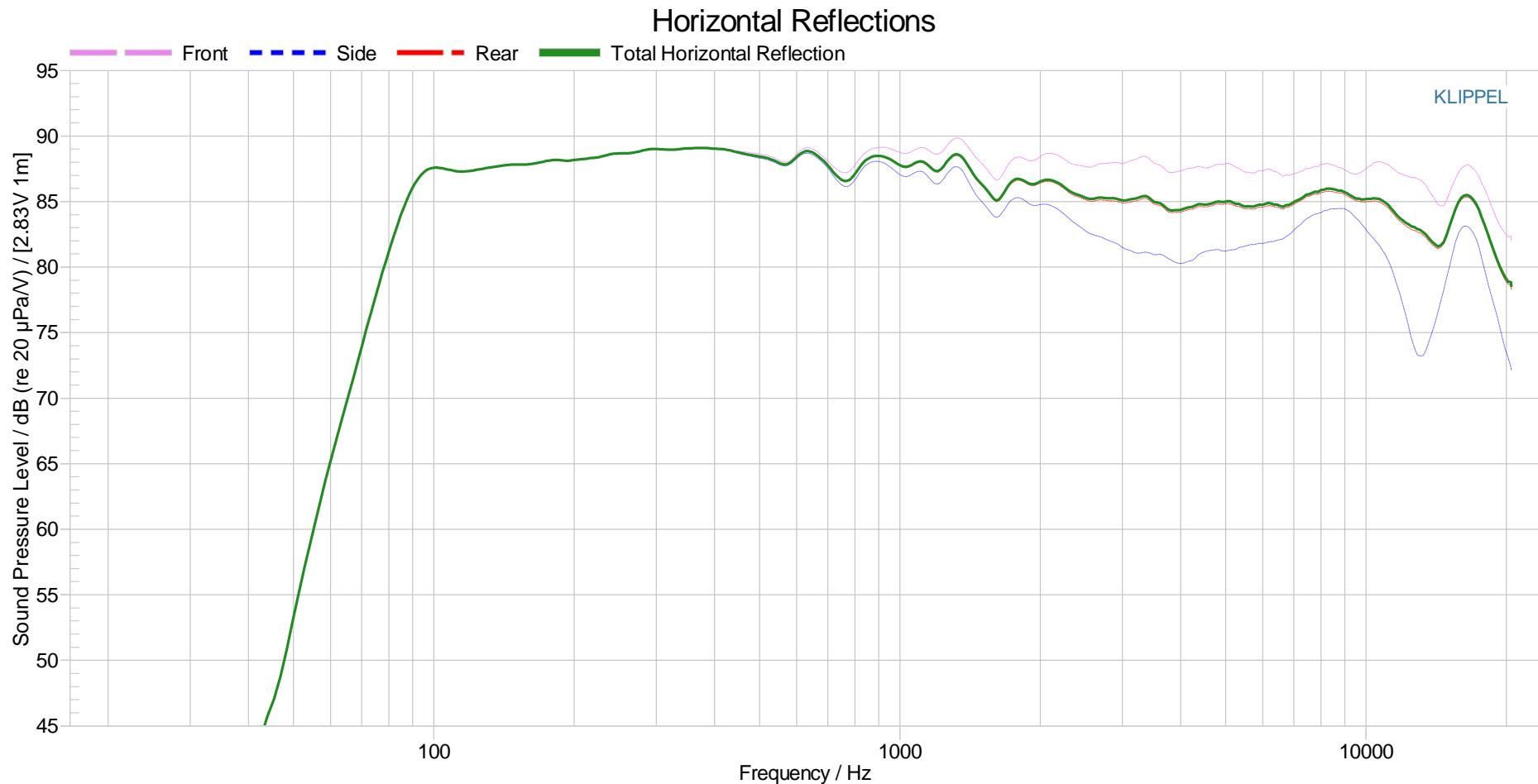
### 4.3. Early reflections

*1/6 oct. Smoothing*



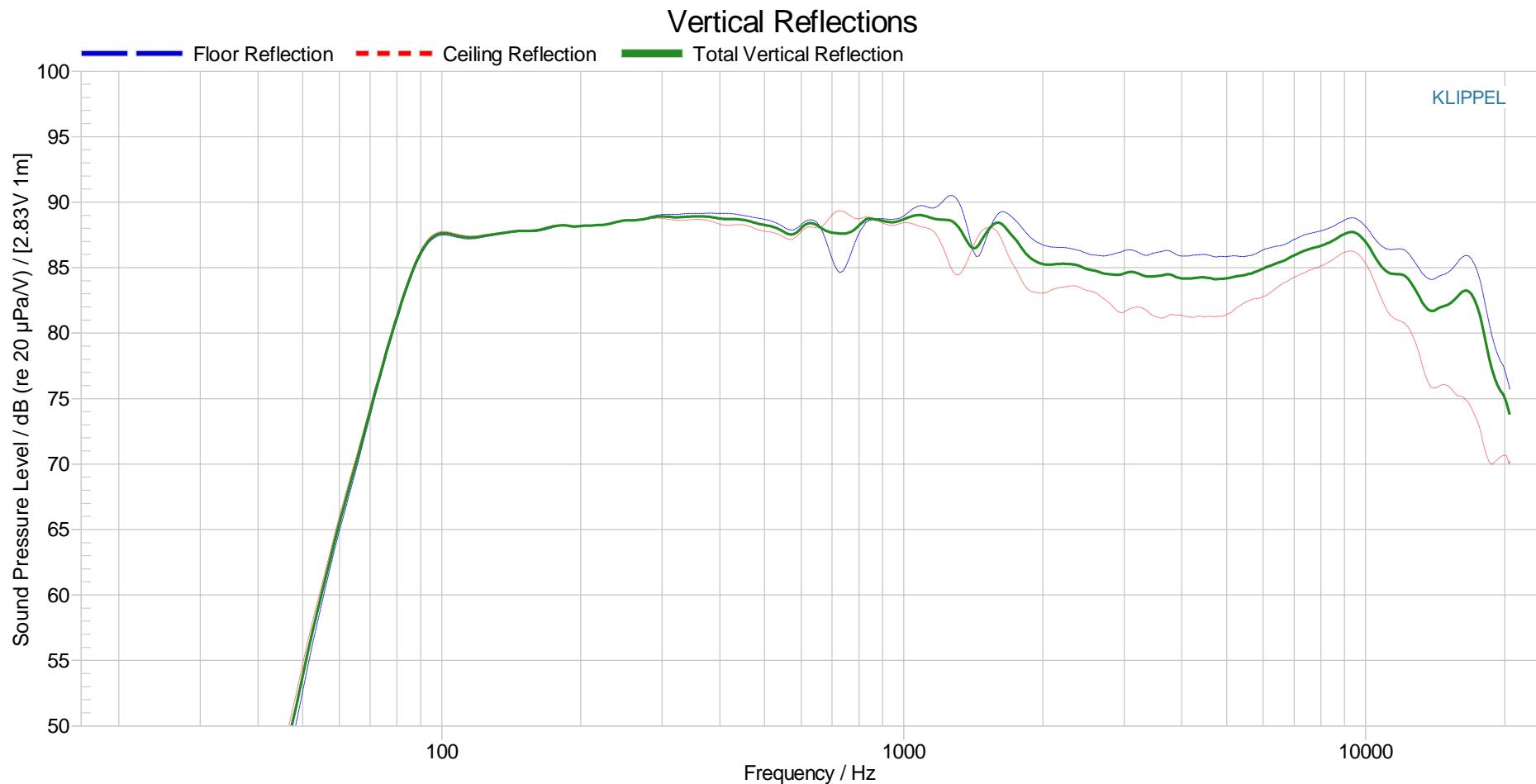
## 4.4. Horizontal Reflections

*1/6 oct. Smoothing*



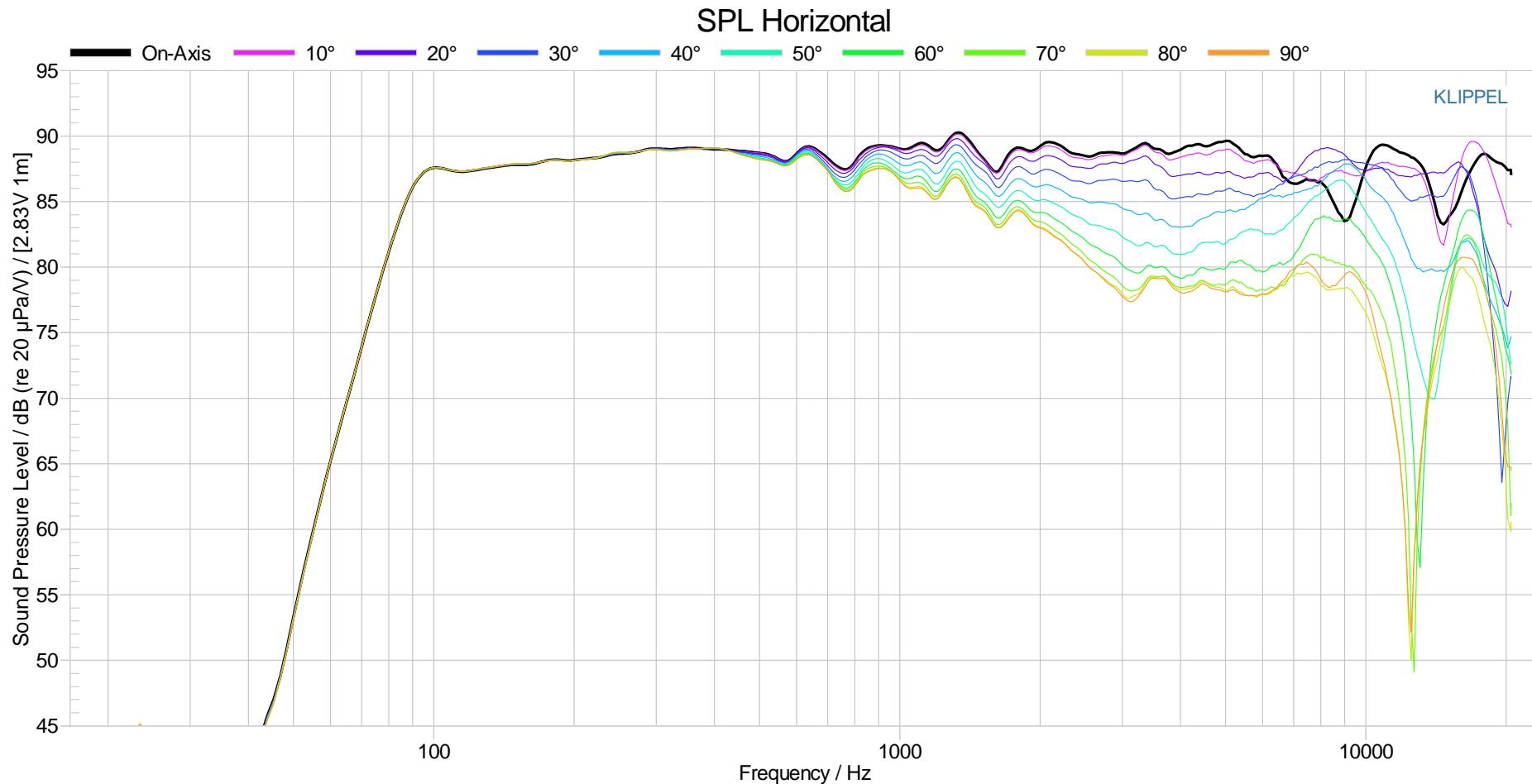
## 4.5. Vertical Reflections

*1/6 oct. Smoothing*



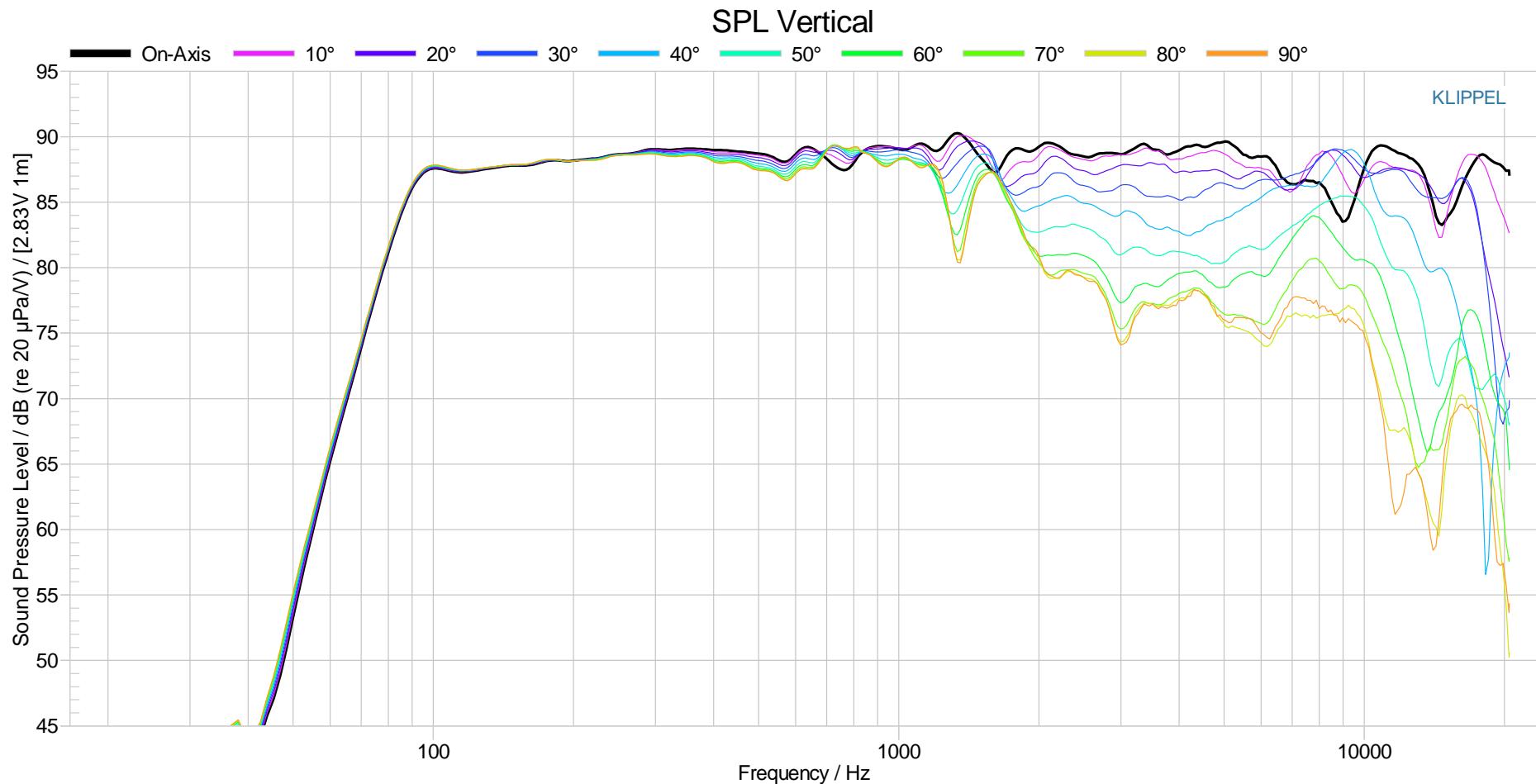
## 4.6. Horizontal Frequency Response

*1/6 oct. Smoothing*



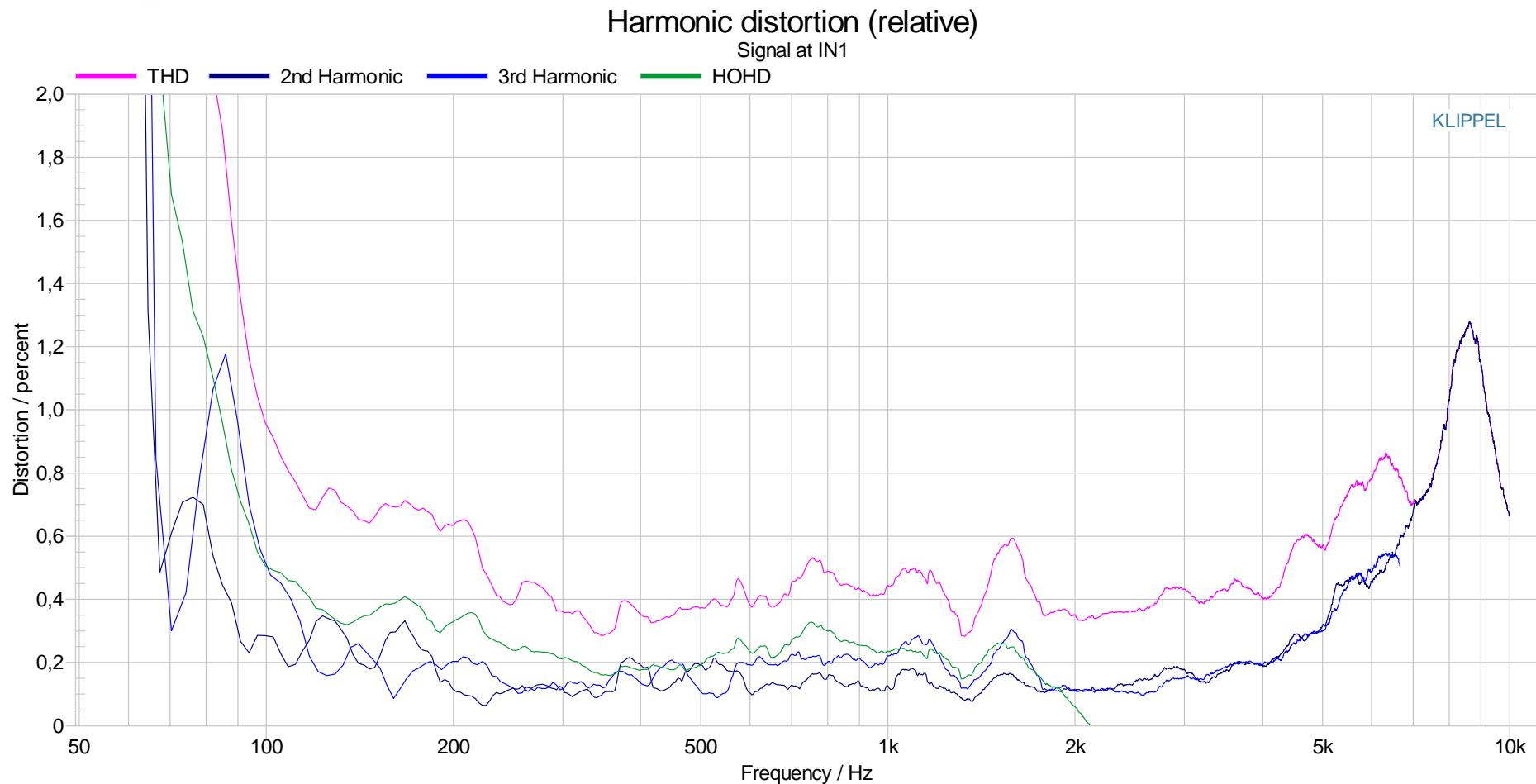
## 4.7. Vertical Frequency Response

*1/6 oct. Smoothing*



## 5. Harmonic Distortion

1/6 oct. Smoothing – 0dBu Stimulus



## 6.MTON Max SPL – 1s Stimulus

### 6.1. Results

#### **Results of last passed measurement**

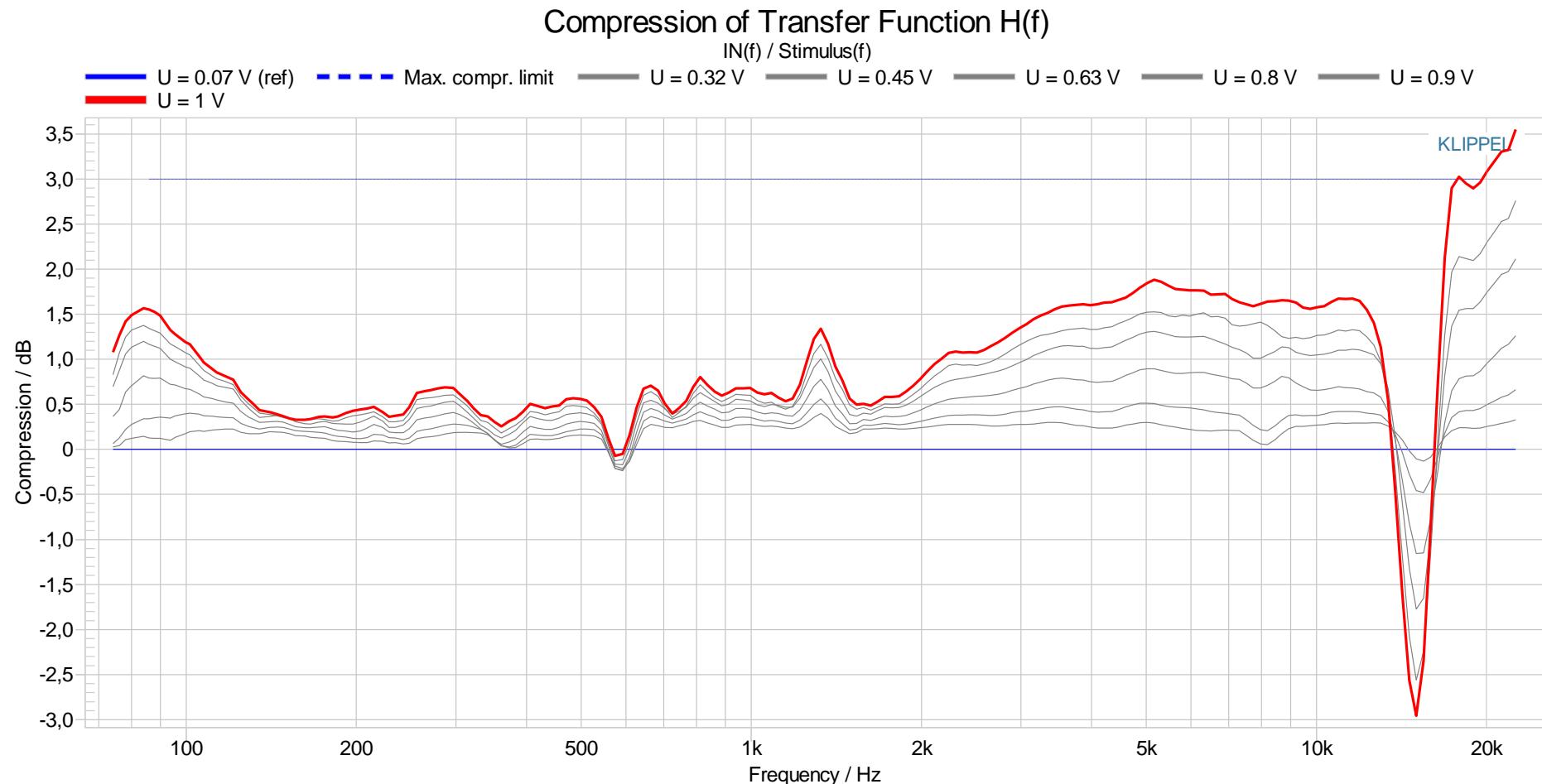
Parameter	Value	Unit	Description
$U_{\max}$	0.9	V	Root mean square of stimulus.
$SPL_{\max}$	110.03	dB	Sum level of fundamentals in microphone signal.
$C_{\max}$	2.17	dB	Max compression in the frequency range 86 - 19494 Hz.
MTD <sub>max</sub>	-27.99	dB	Maximum multi-tone distortion of microphone signal relative to mean value.

#### **Stimulus properties**

Parameter	Value	Unit	Description
$f_{\min}$	74.22	Hz	Lowest multi-tone frequency line
$f_{\max}$	22521.48	Hz	Highest multi-tone frequency line
$t$	0.51	s	Signal duration
$K$	2.95	-	Kurtosis
$C$	12.76	dB	Crest factor

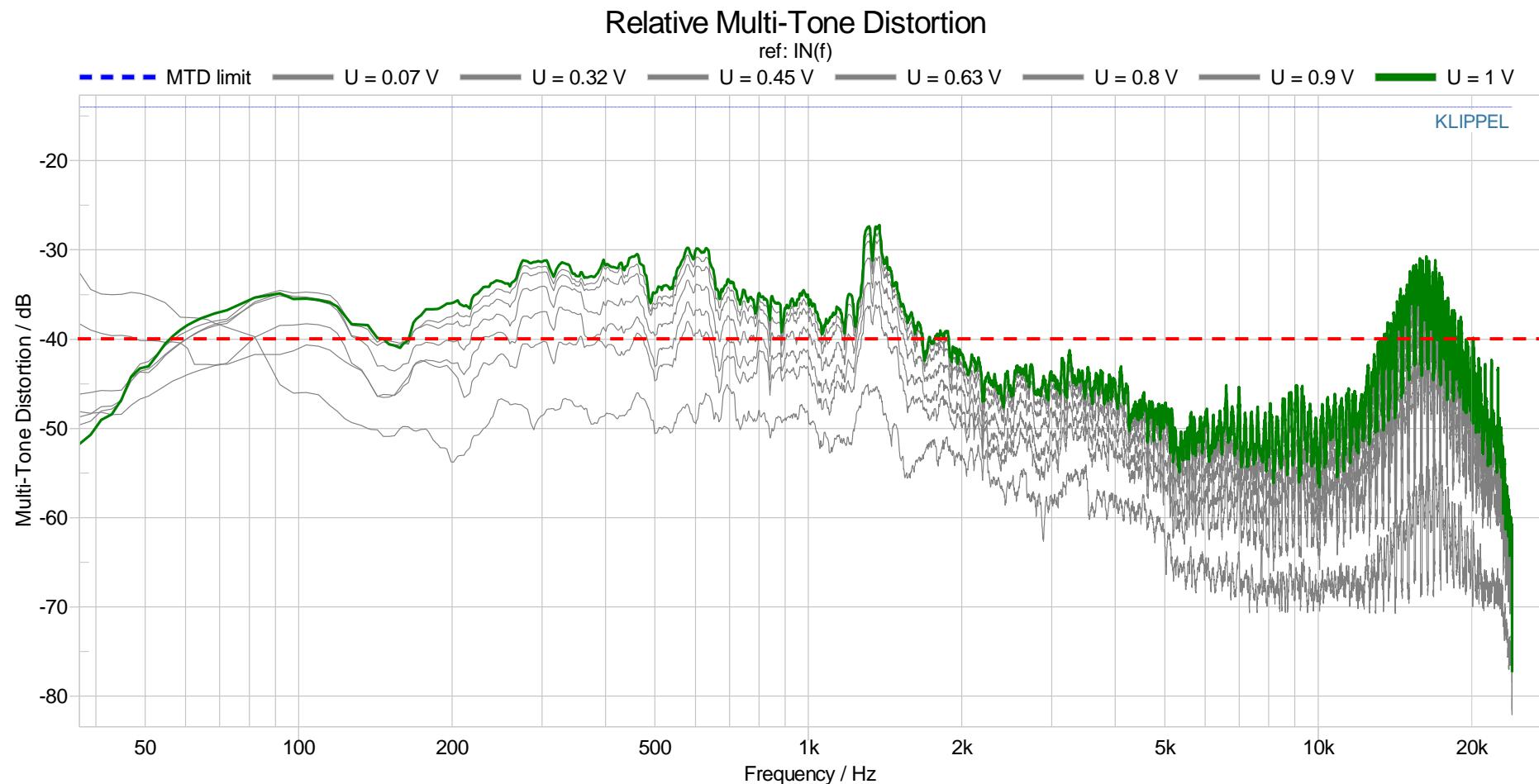
## 6.2. Compression Chart

-32dB Voltage Values – 1/6 Smoothing



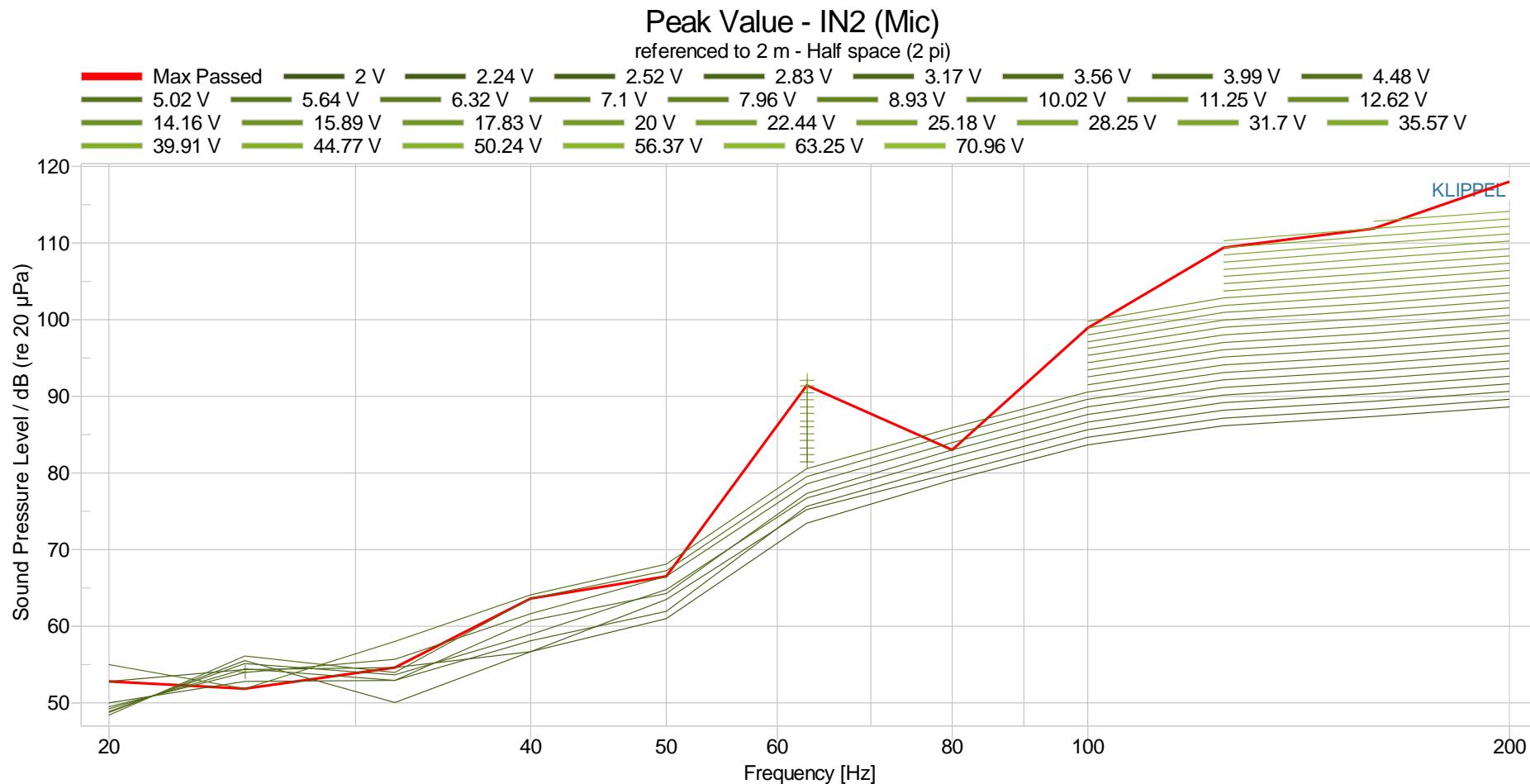
### 6.3. Multi Tone Distortion Chart

-32dB Voltage Values – No Smoothing



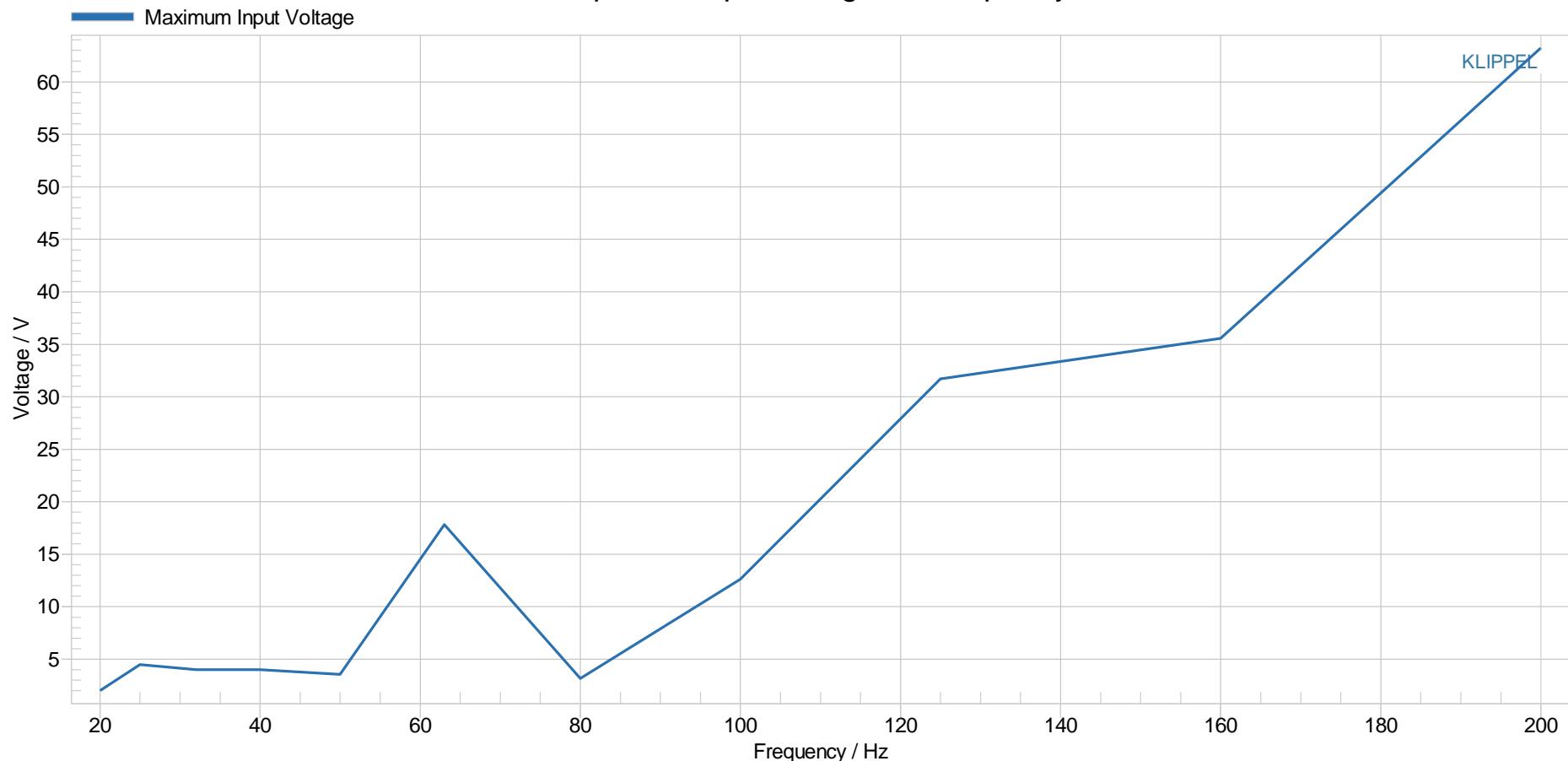
## 7.CEA2010B

### 7.1. Max Peak SPL



## 7.2. Max Peak Voltage

Maximum passed Input Voltage vs. Frequency Profile



### 7.3. THD on Burst

