



Report of THE6 PASSIVE ON WALL

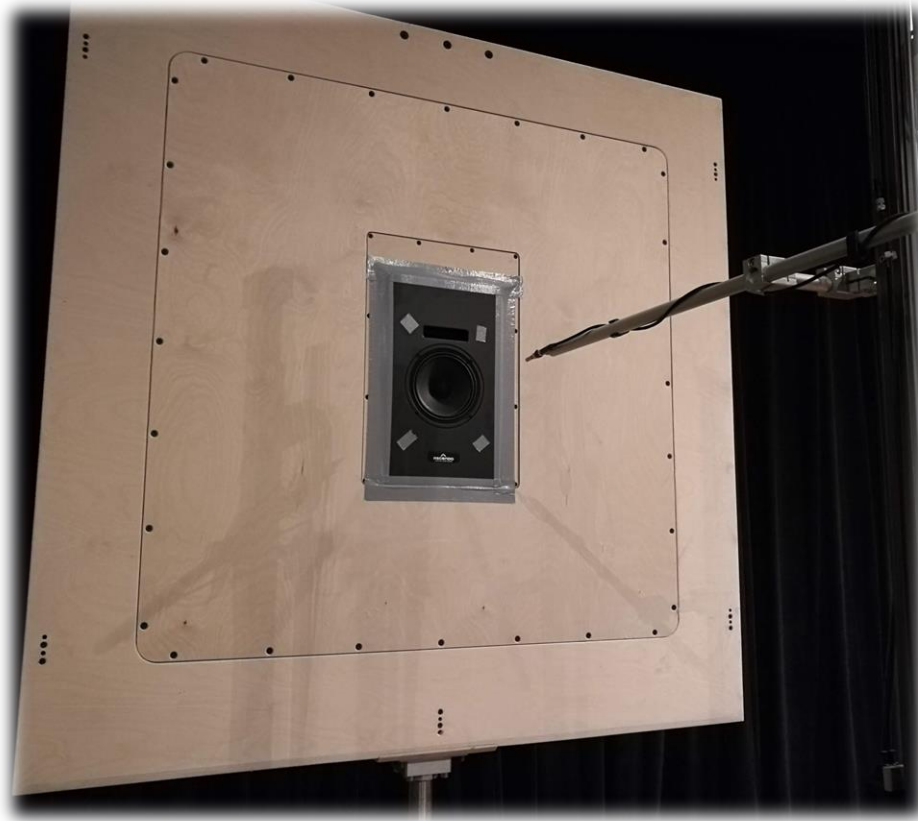
ASCENDO

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

Summary

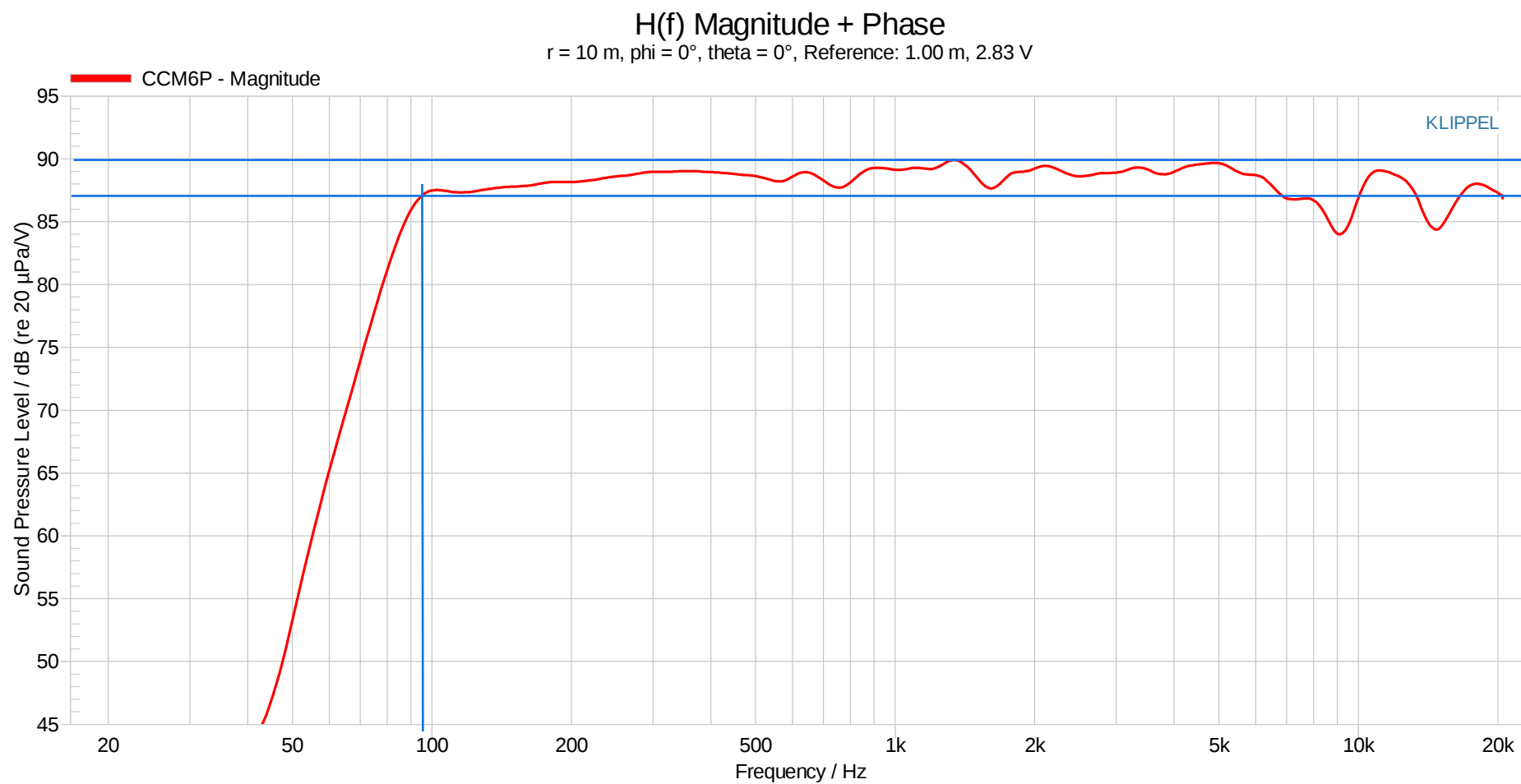
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1. Pictures of measurements



2. Frequency Response

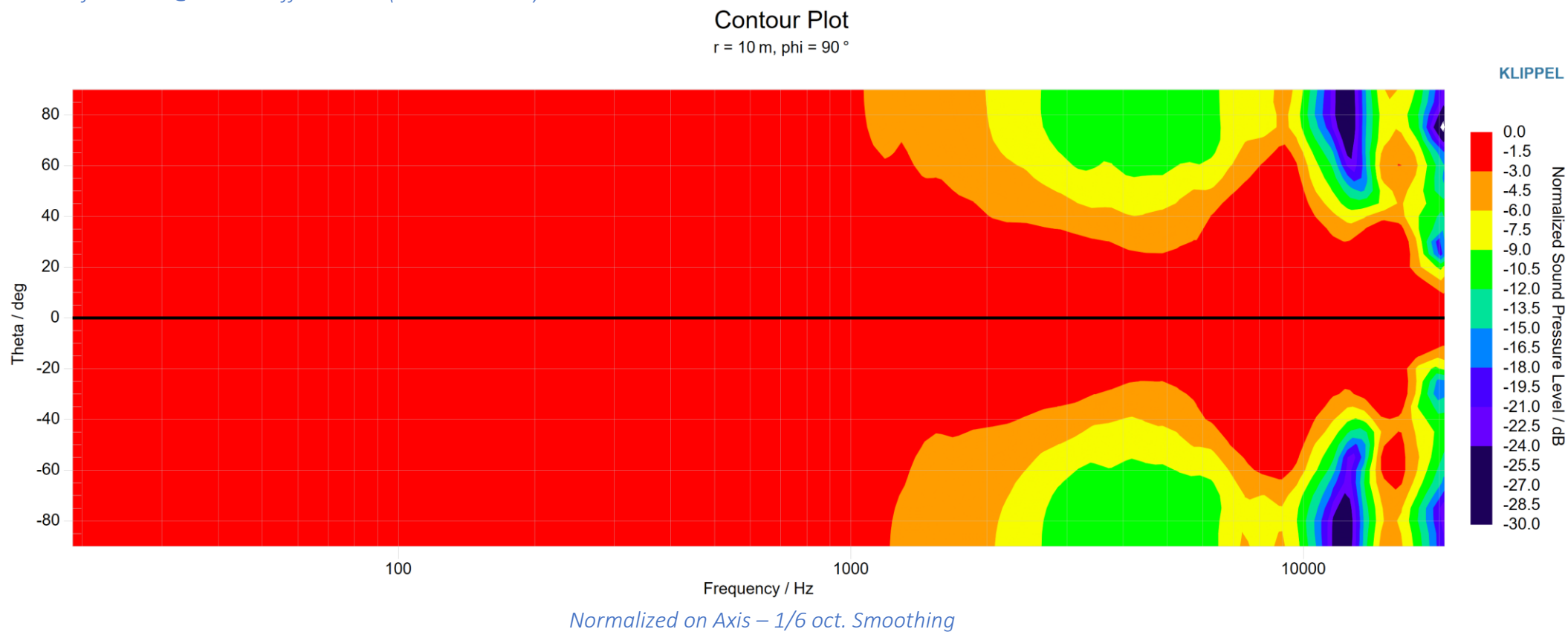
2,83v @1m – 1/6 oct. Smoothing



3. Contour Plot

3.1. Horizontal

Referenced @10m – Baffle loaded (2π steradians)



3.2. Vertical

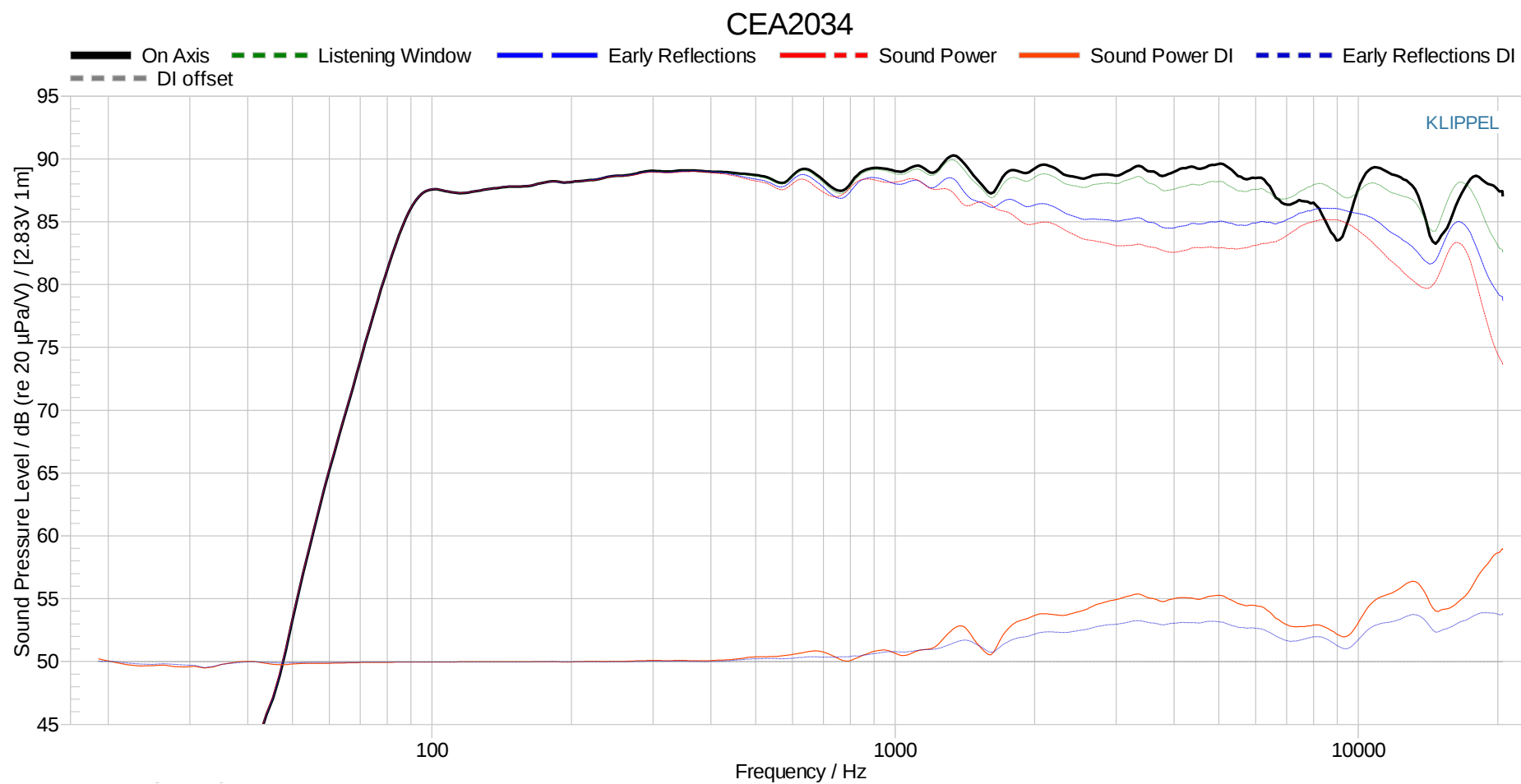
Referenced @10m – Baffle loaded (2π steradians)



Normalized on Axis – 1/6 oct. Smoothing

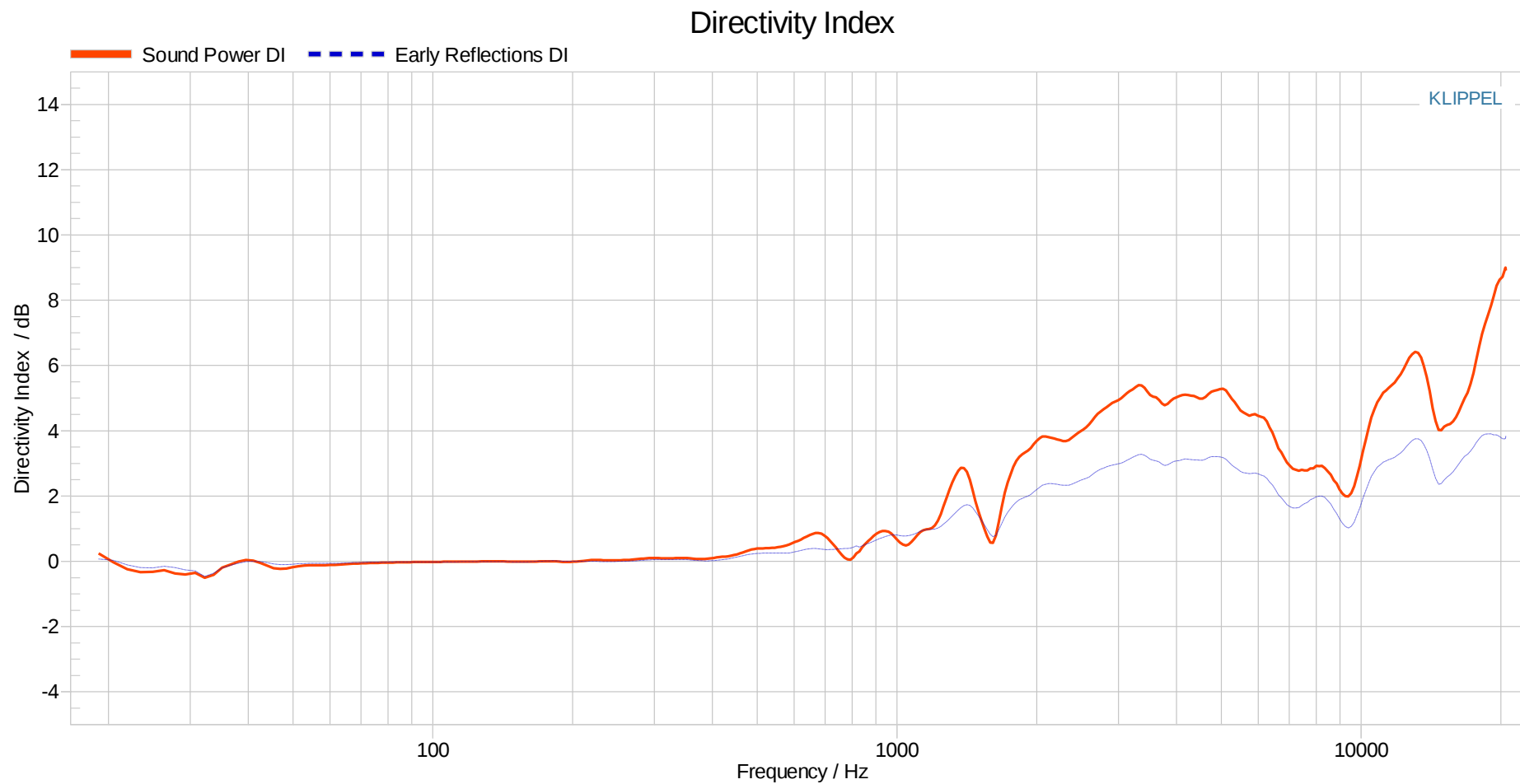
4. CEA2034 Spinorama

2,83v @1m – 1/6 oct. Smoothing



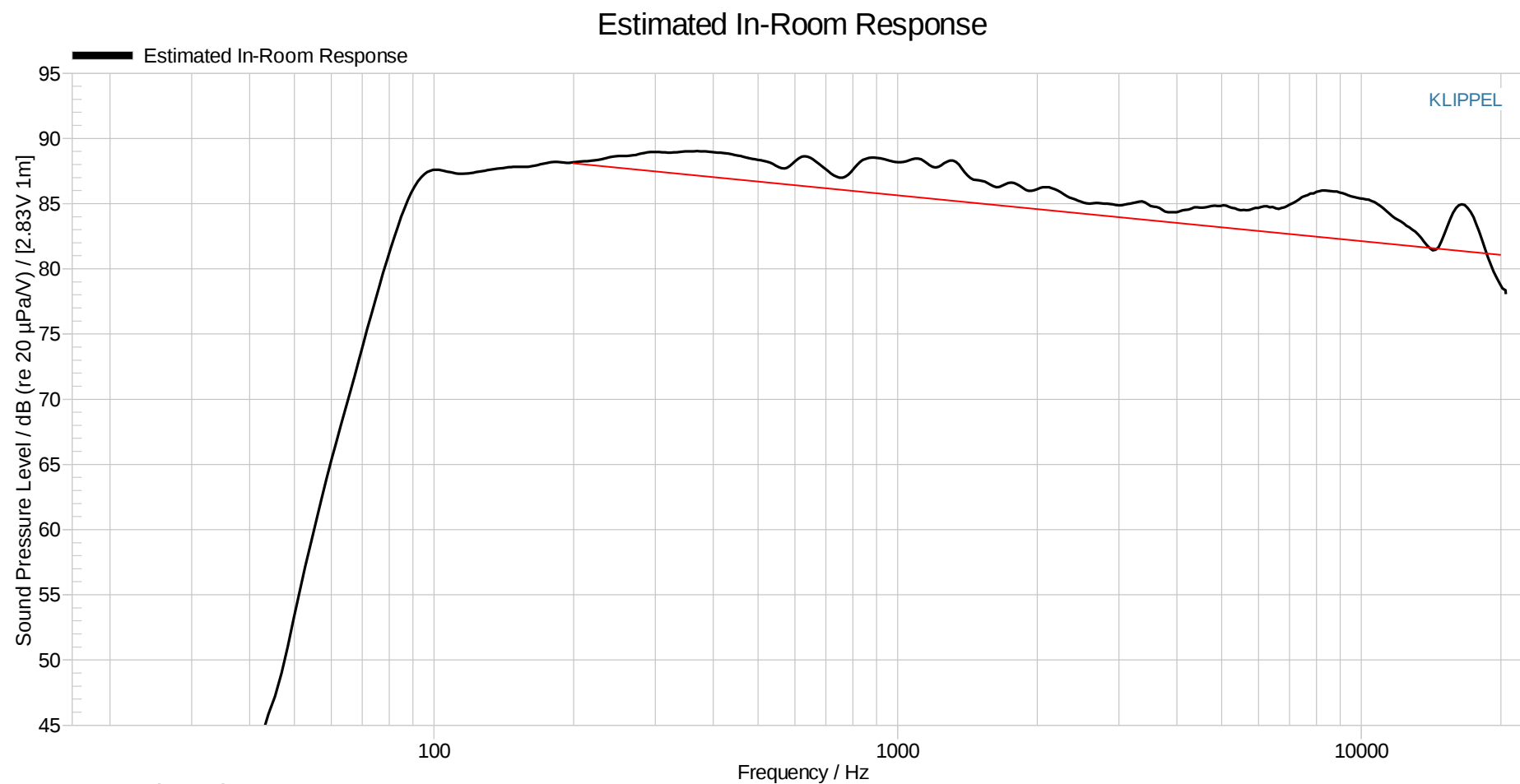
4.1. Directivity Index

1/6 oct. Smoothing



4.2. In-Room response

1/6 oct. Smoothing



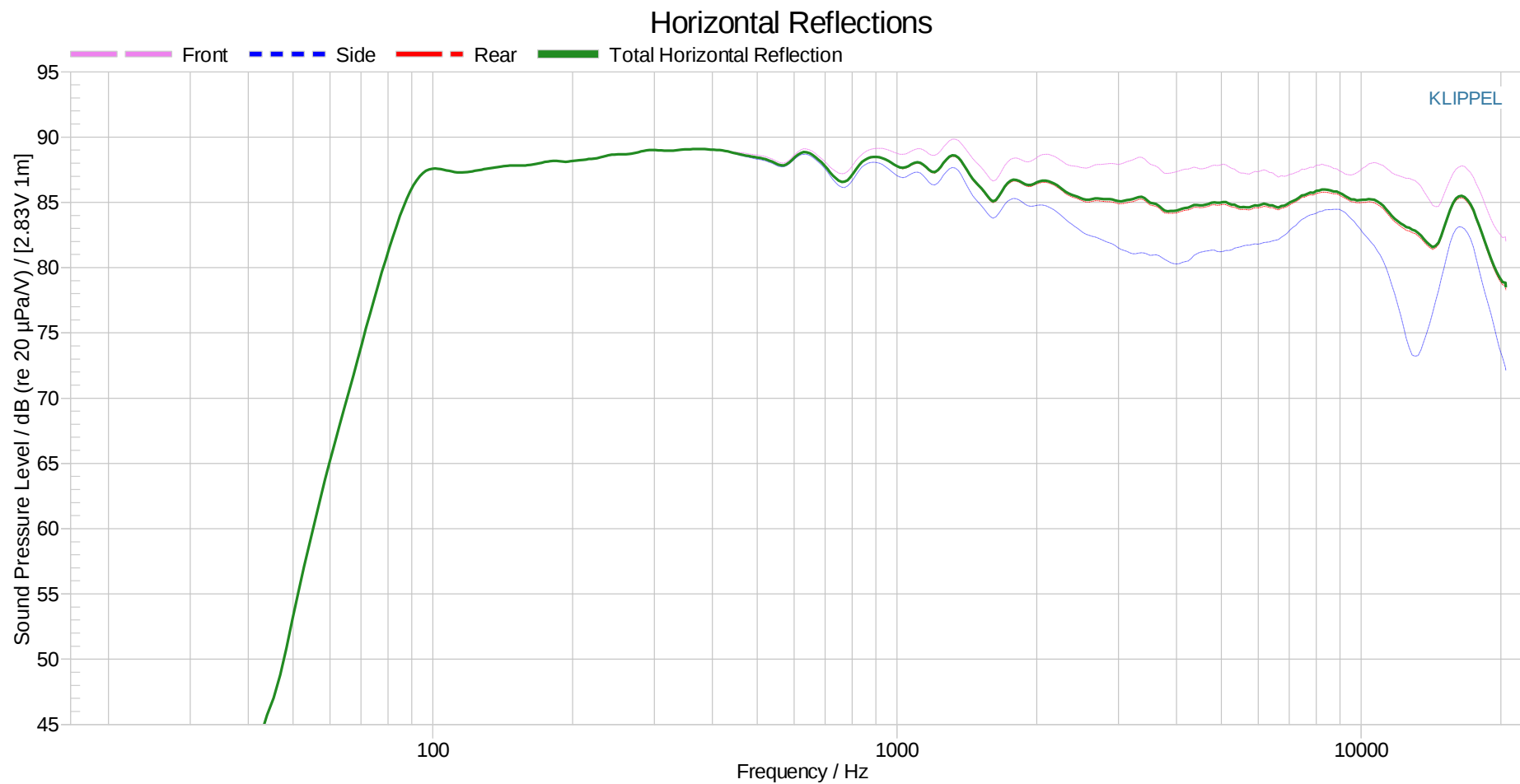
4.3. Early reflections

1/6 oct. Smoothing



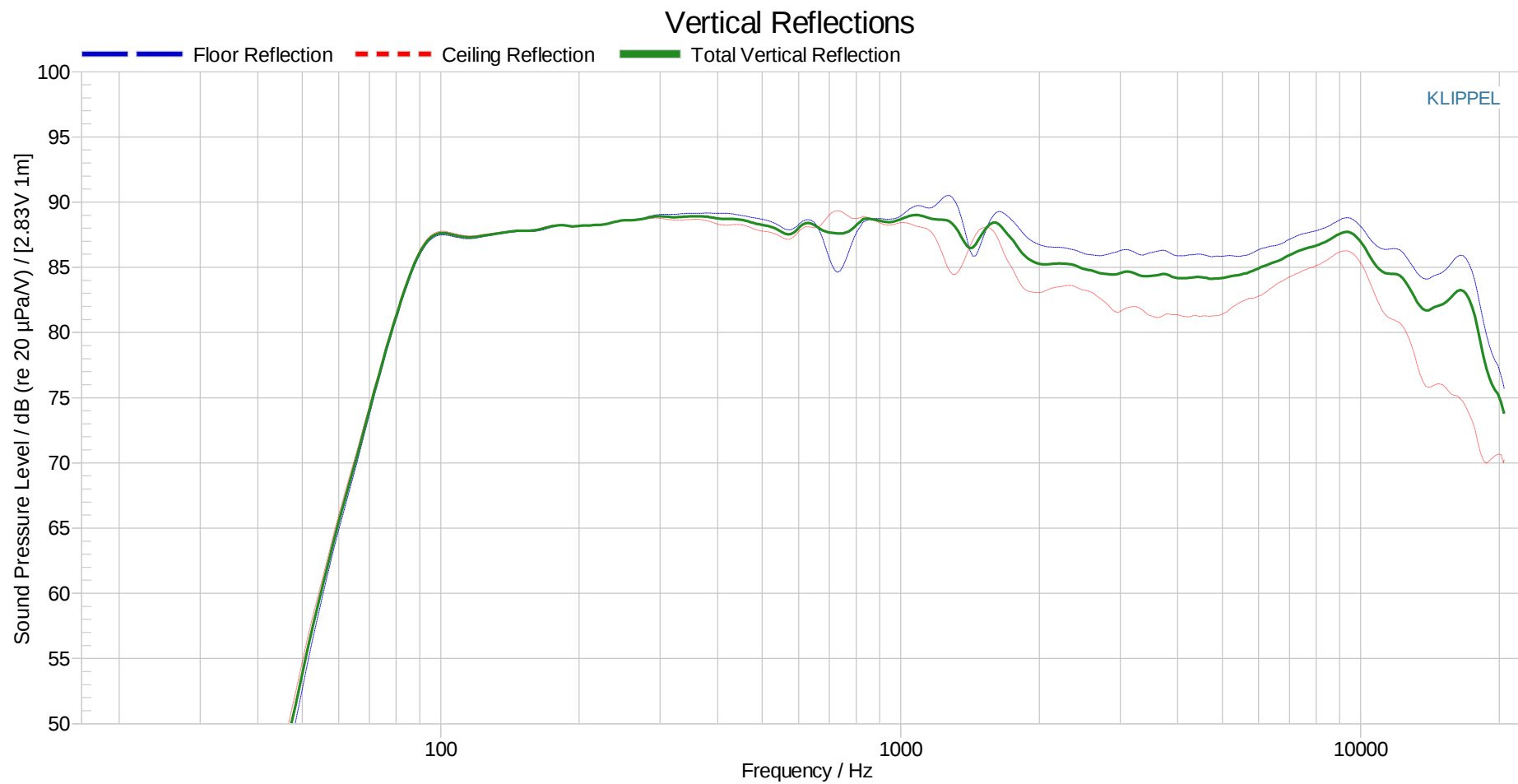
4.4. Horizontal Reflections

1/6 oct. Smoothing



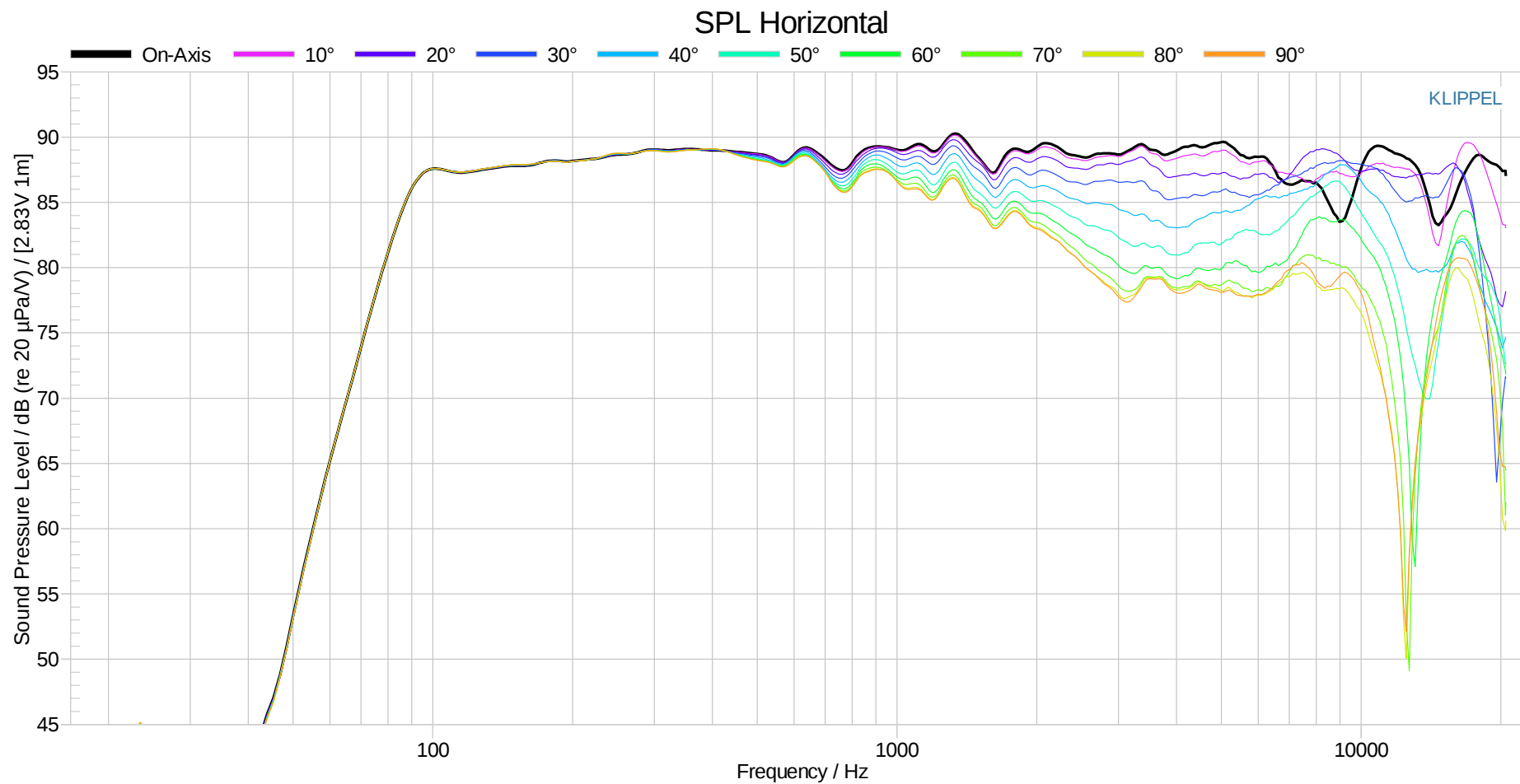
4.5. Vertical Reflections

1/6 oct. Smoothing



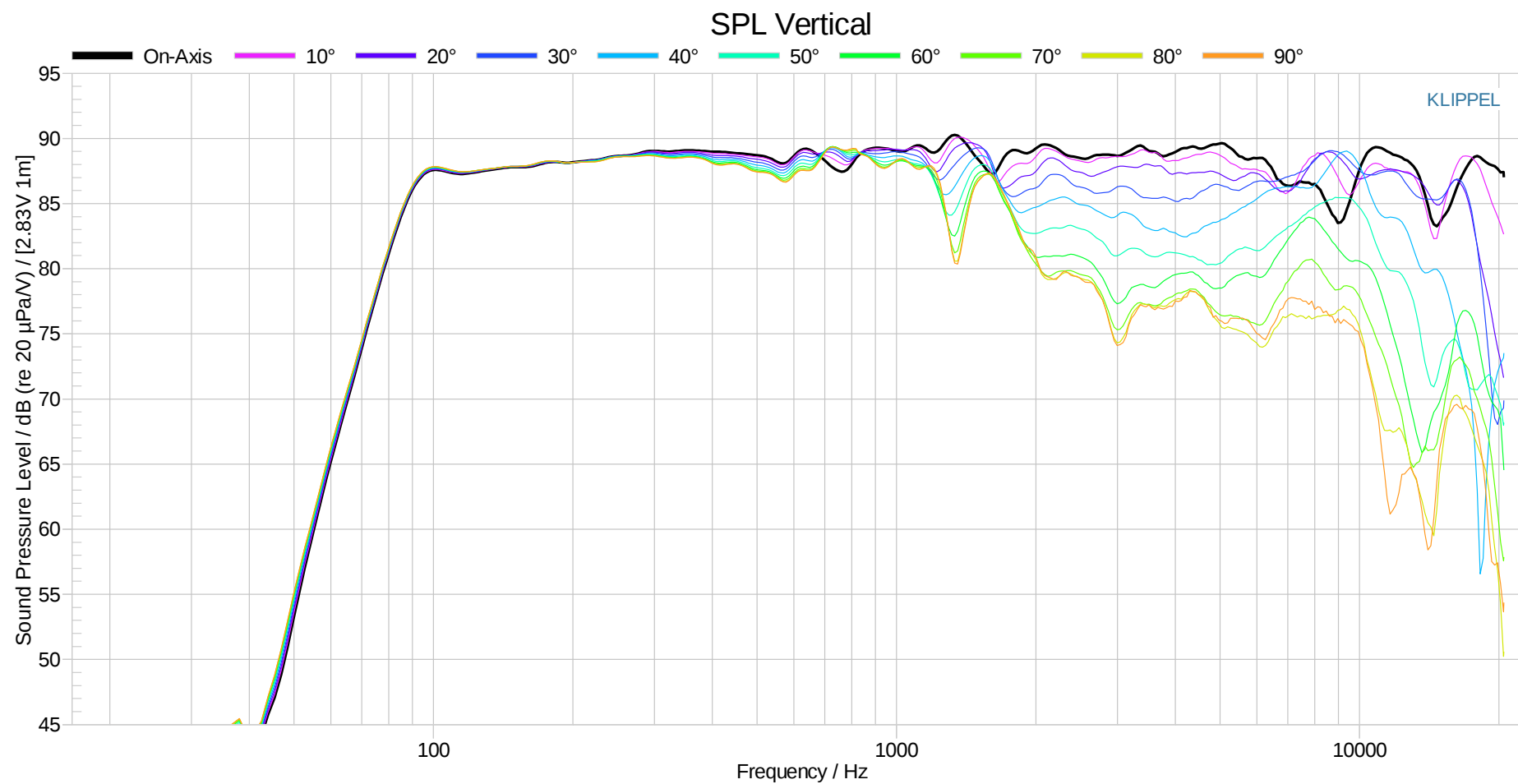
4.6. Horizontal Frequency Response

1/6 oct. Smoothing



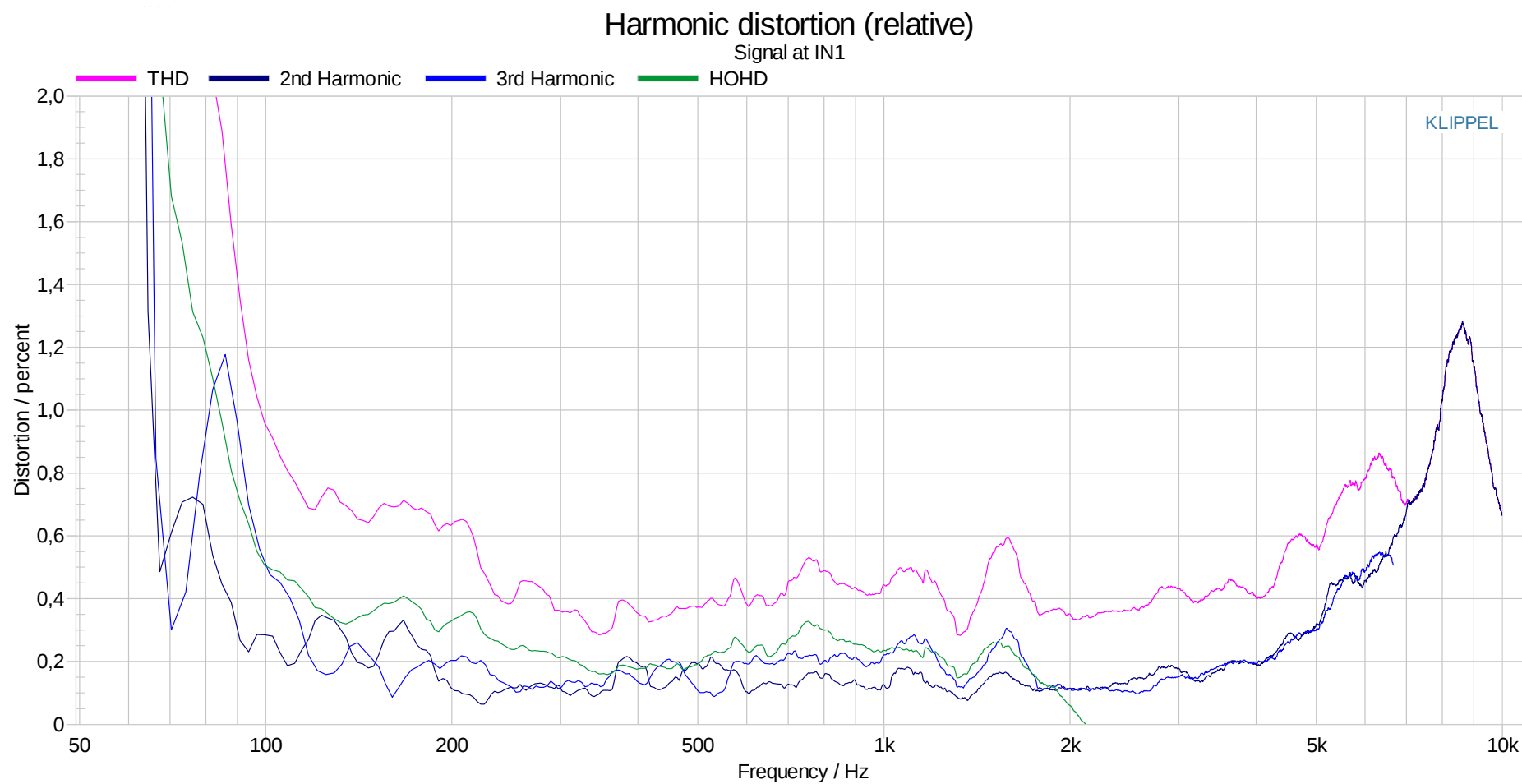
4.7. Vertical Frequency Response

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

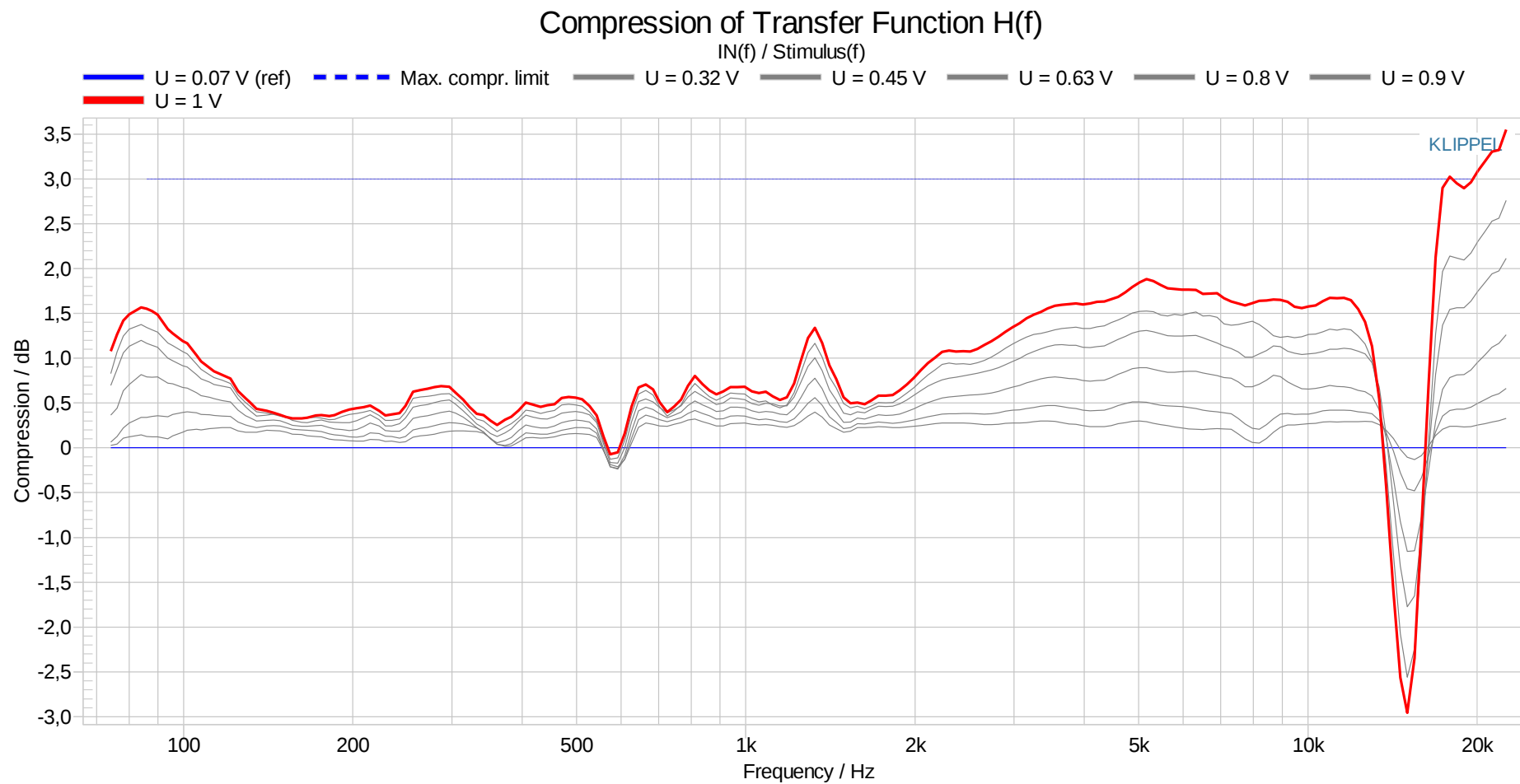
Parameter	Value	Unit	Description
$U_{\max}$	0.9	V	Root mean square of stimulus.
$SPL_{\max}$	110.03	dB	Sum level of fundamentals in microphone signal.
$C_{\max}$	2.17	dB	Max compression in the frequency range 86 - 19494 Hz.
$MTD_{\max}$	-27.99	dB	Maximum multi-tone distortion of microphone signal relative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

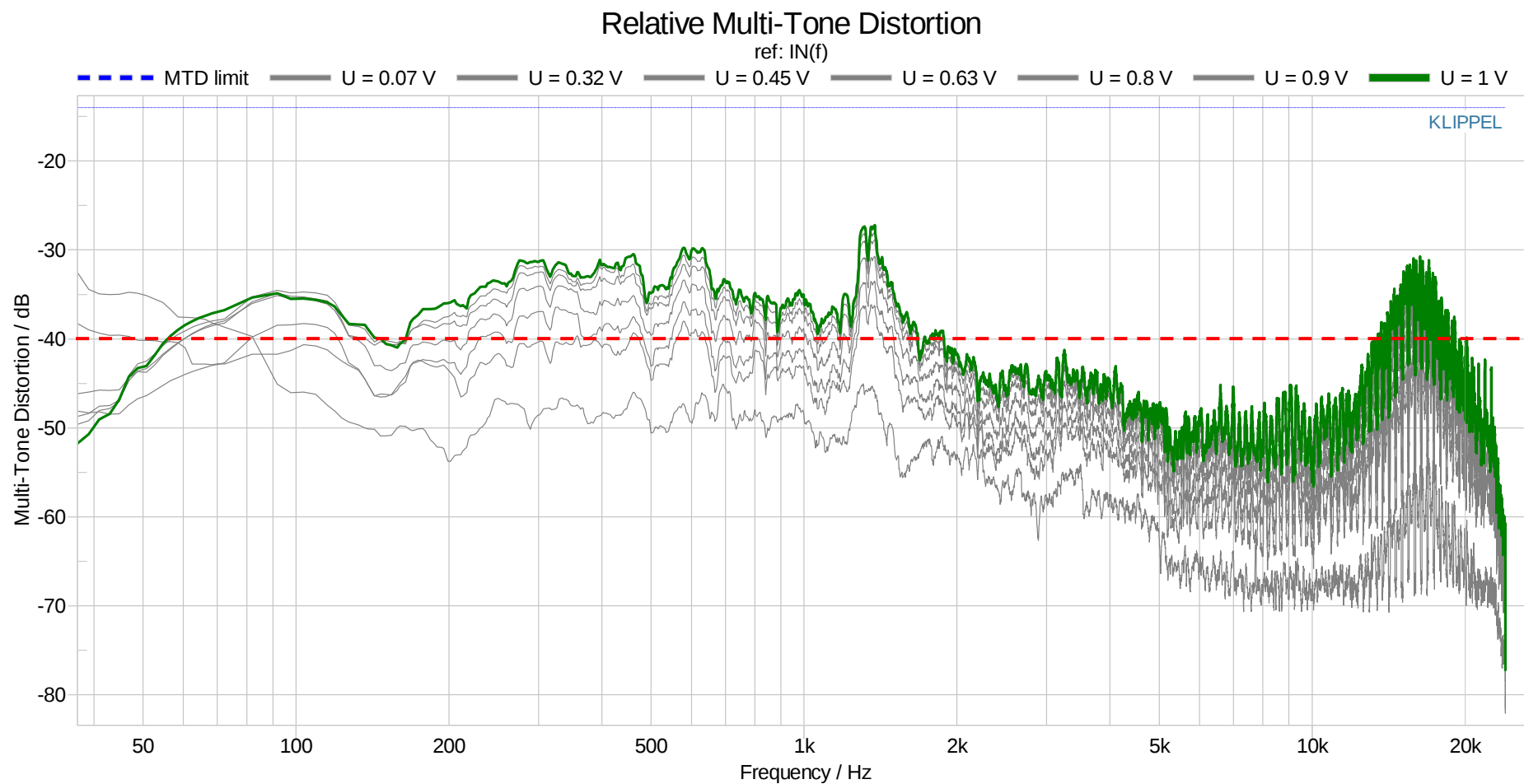
6.2. Compression Chart

-32dB Voltage Values – 1/6 Smoothing



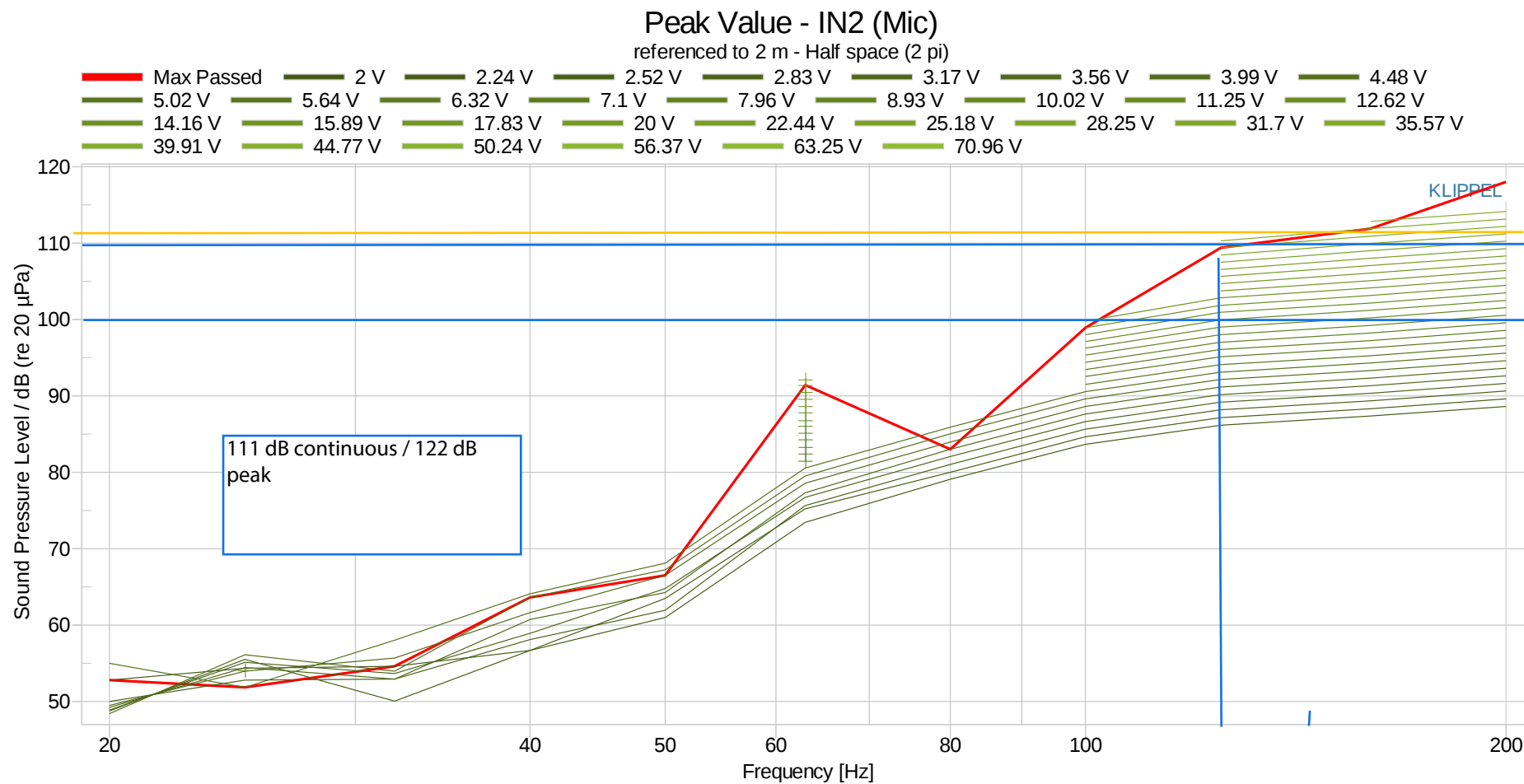
6.3. Multi Tone Distortion Chart

-32dB Voltage Values – No Smoothing



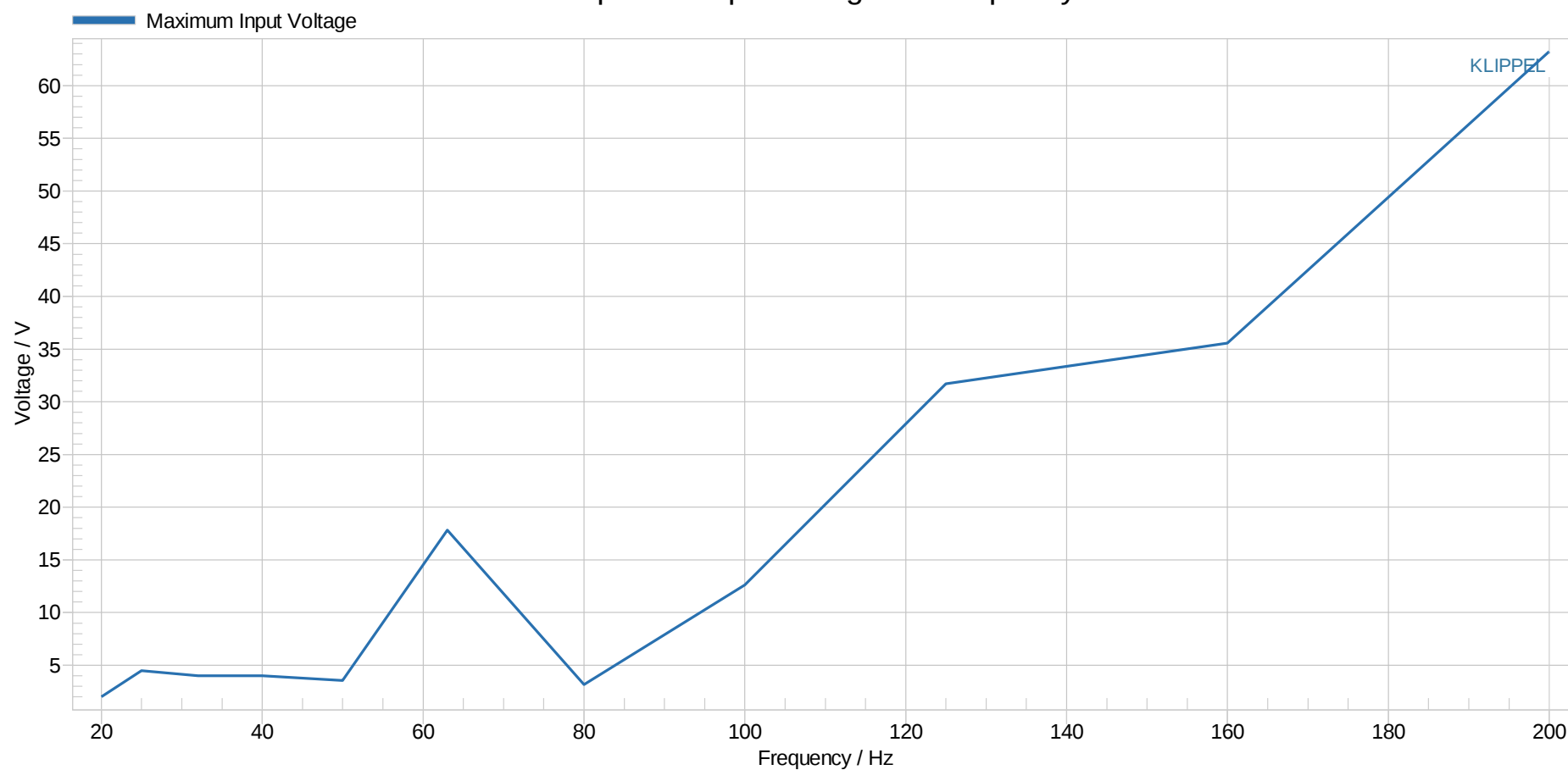
7. CEA2010B

7.1. Max Peak SPL



7.2. Max Peak Voltage

Maximum passed Input Voltage vs. Frequency Profile



7.3. THD on Burst

