



Report of THE12 Be PRO PASSIVE ON WALL

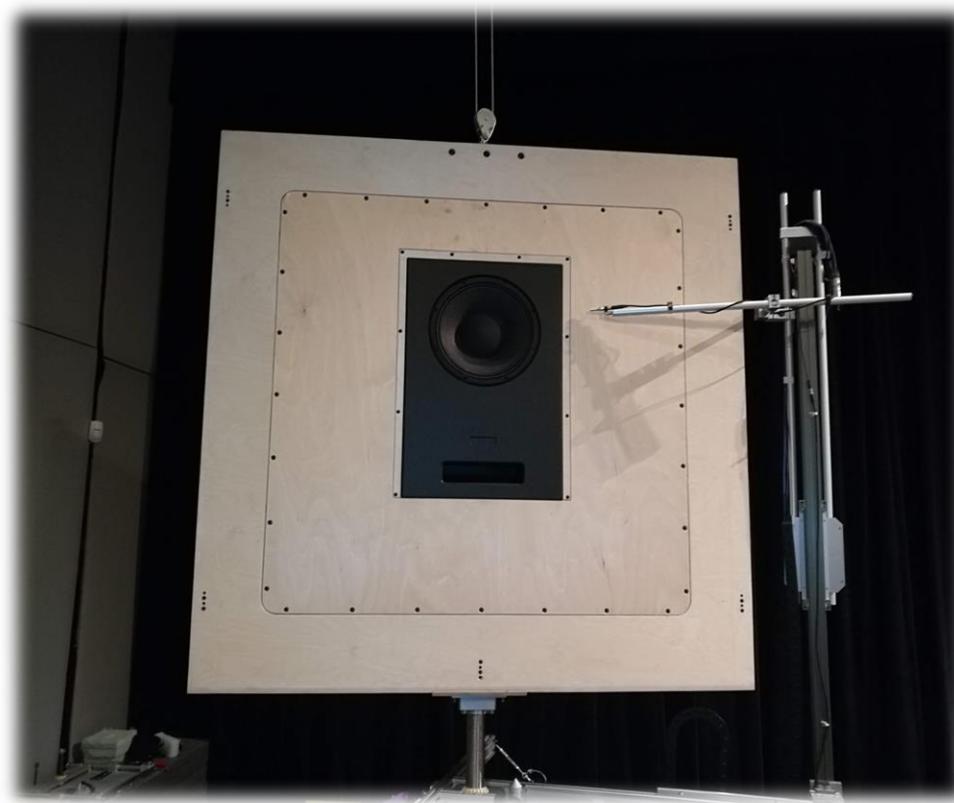
ASCENDO

Date	Author	Changes	Version
06/05/2022	GL		V1

Summary

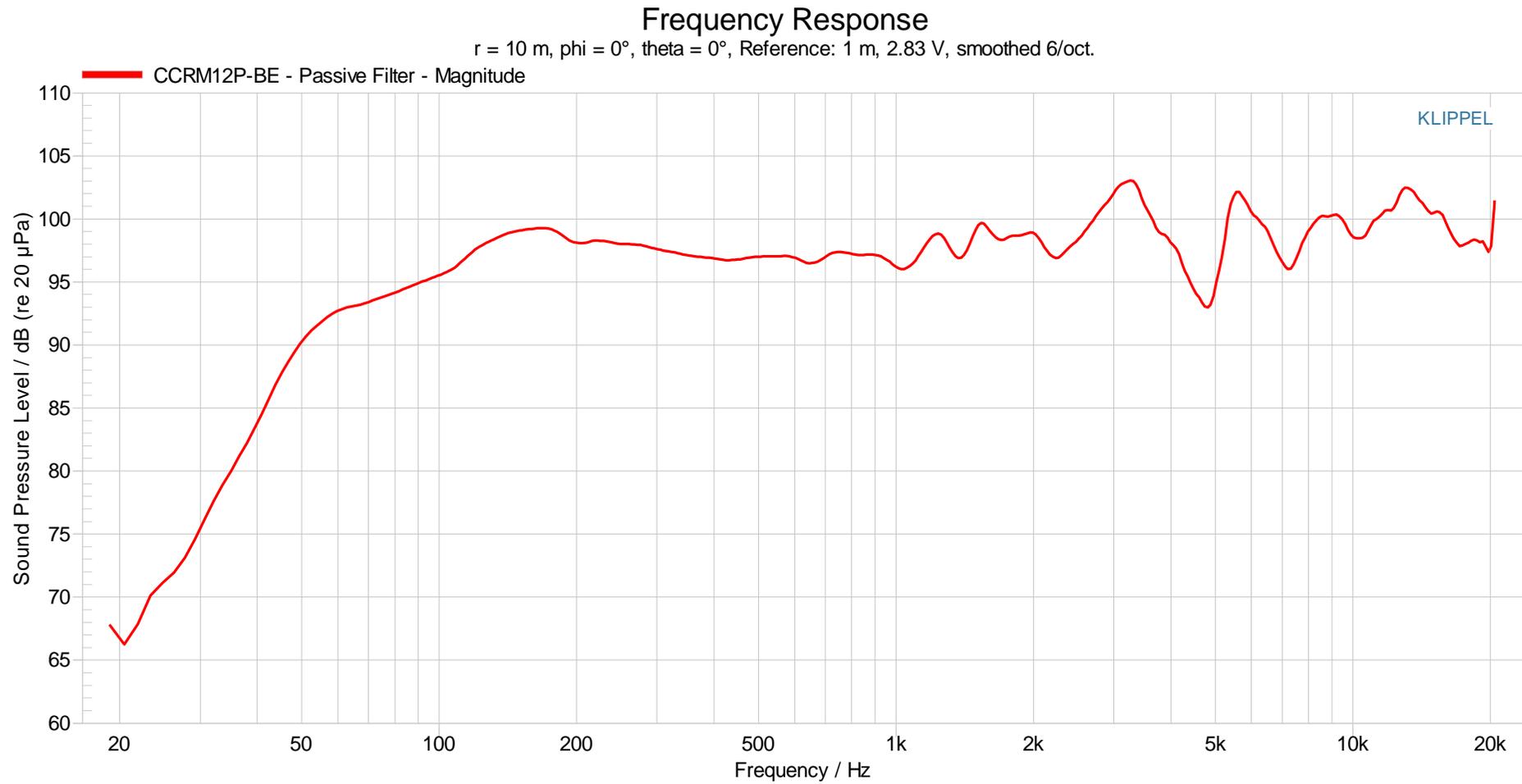
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1. Pictures of measurements



2. Frequency Response

2,83v @1m – 1/12 oct. Smoothing



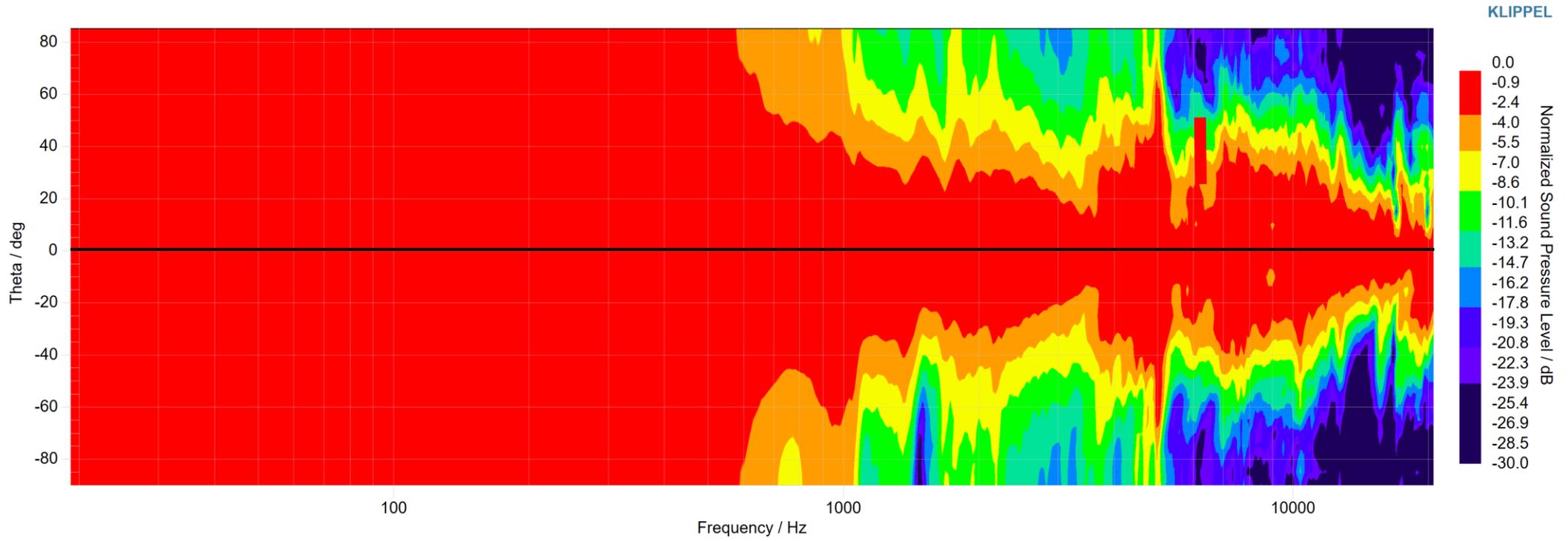
3. Contour Plot

3.1. Horizontal

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

Contour Plot - Horizontal

$r = 10\text{ m}$, $\phi = 90^\circ$, normalized to On-Axis



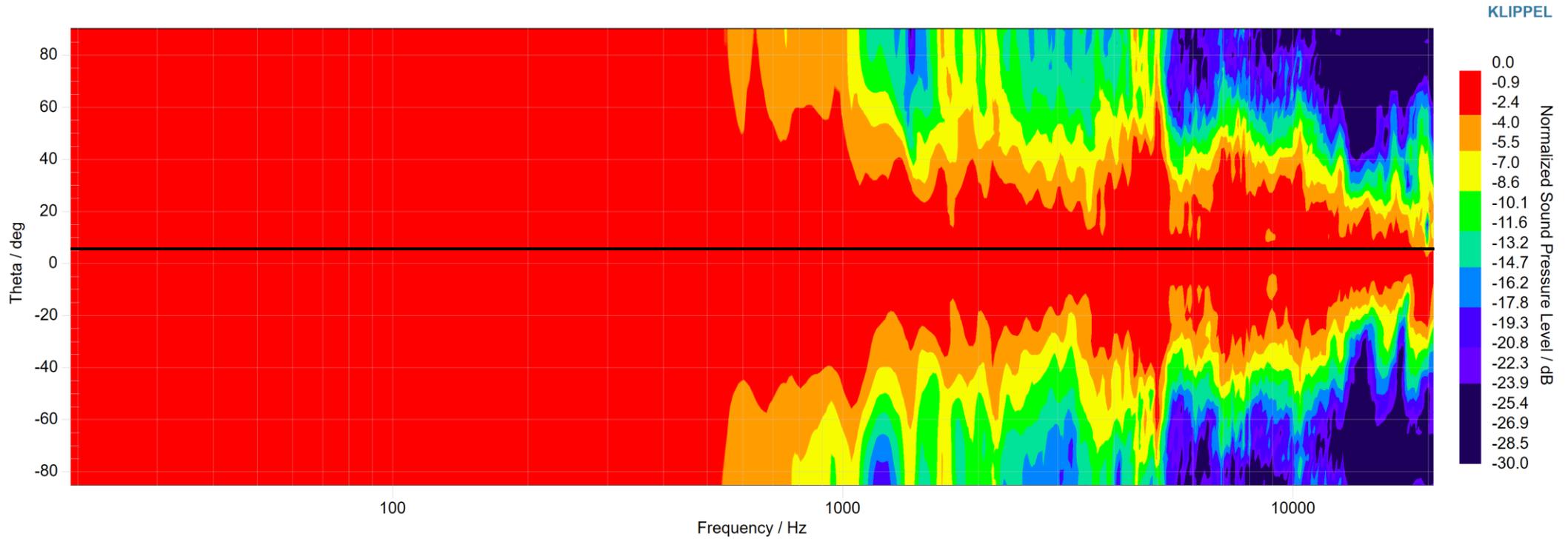
Normalized on Axis – 1/6 oct. Smoothing

3.2. Vertical

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

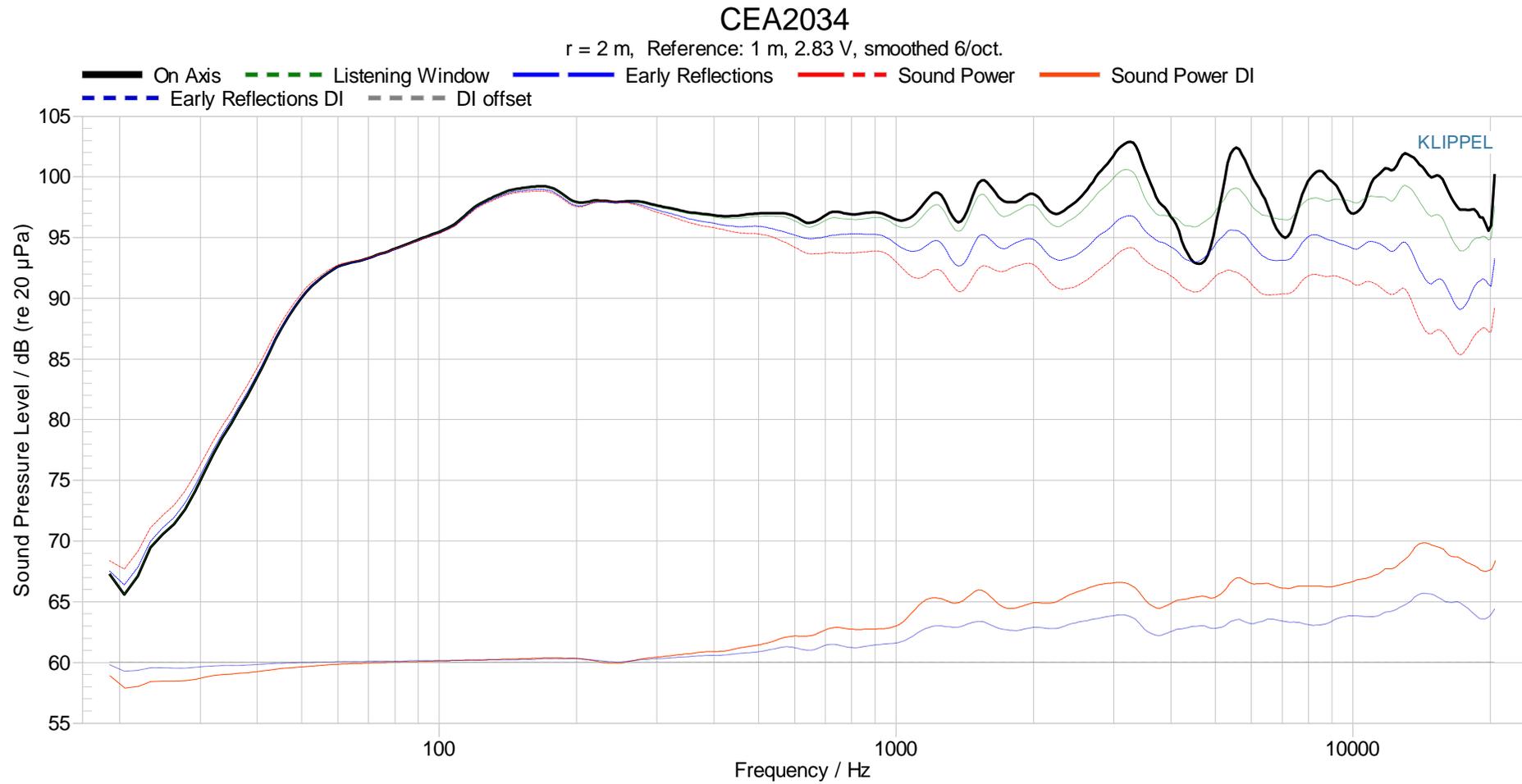
Contour Plot - Vertical

$r = 10\text{ m}$, $\phi = 0^\circ$, normalized to On-Axis



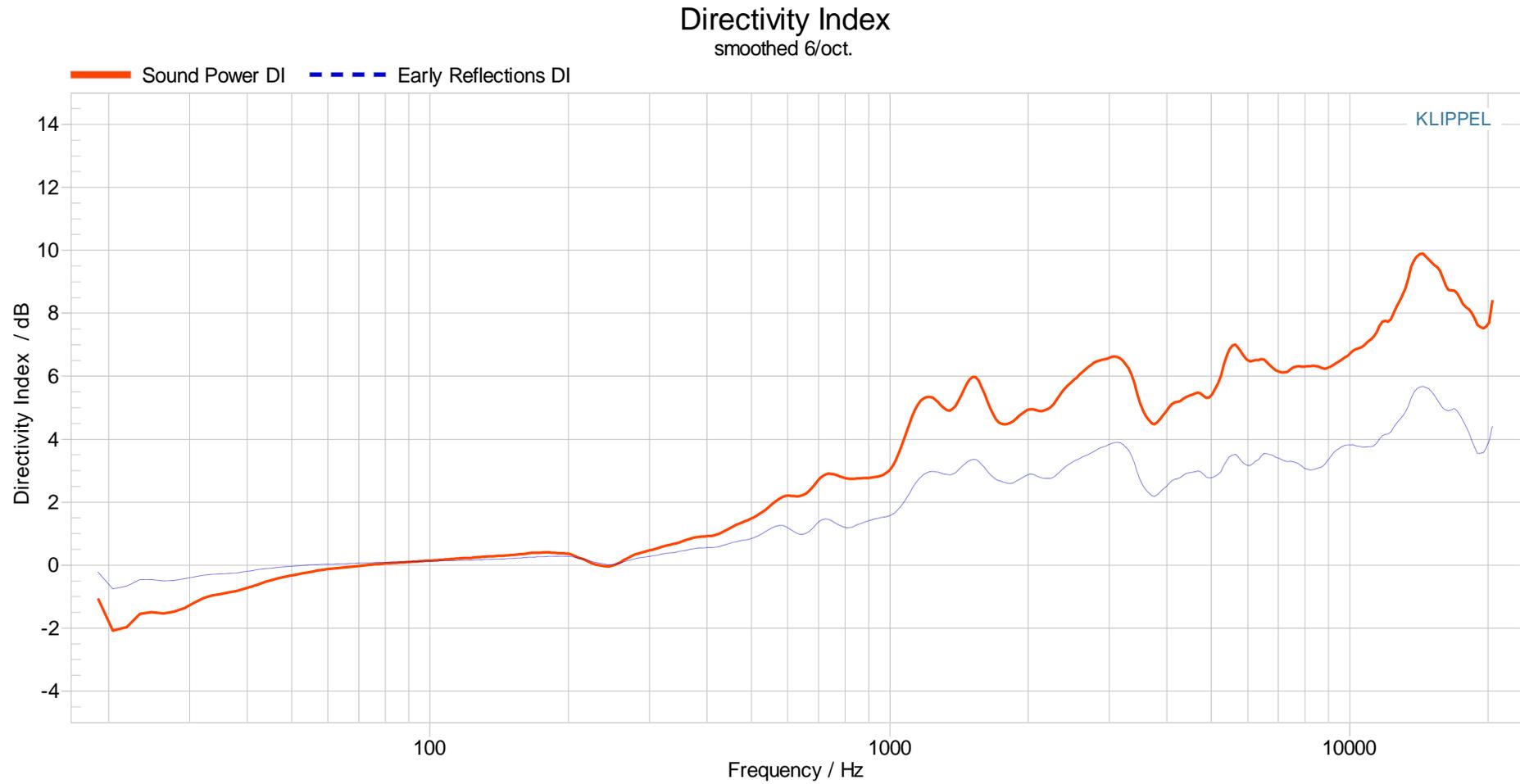
4. CEA2034 Spinorama

2,83v @1m – 1/6 oct. Smoothing



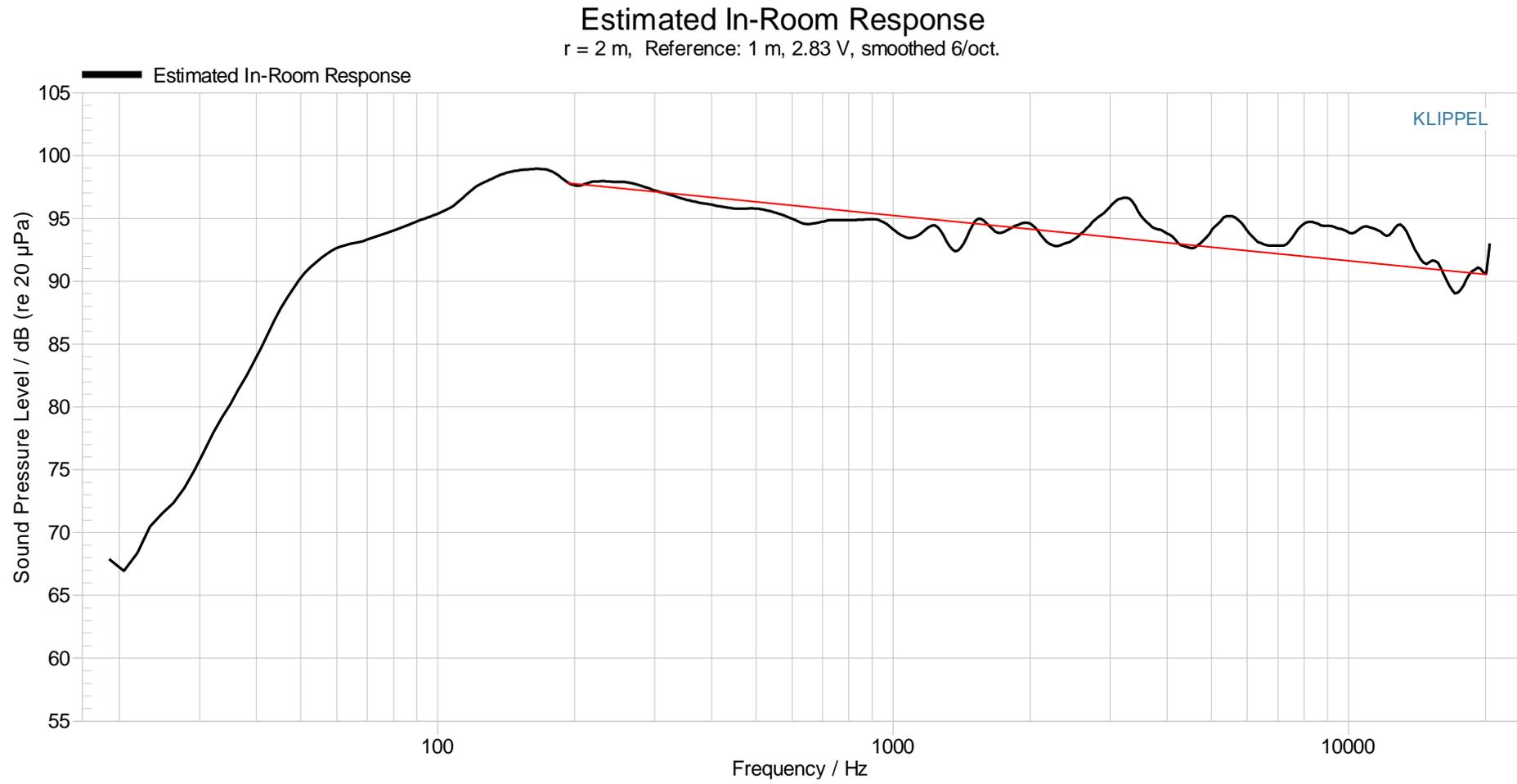
4.1. Directivity Index

1/6 oct. Smoothing



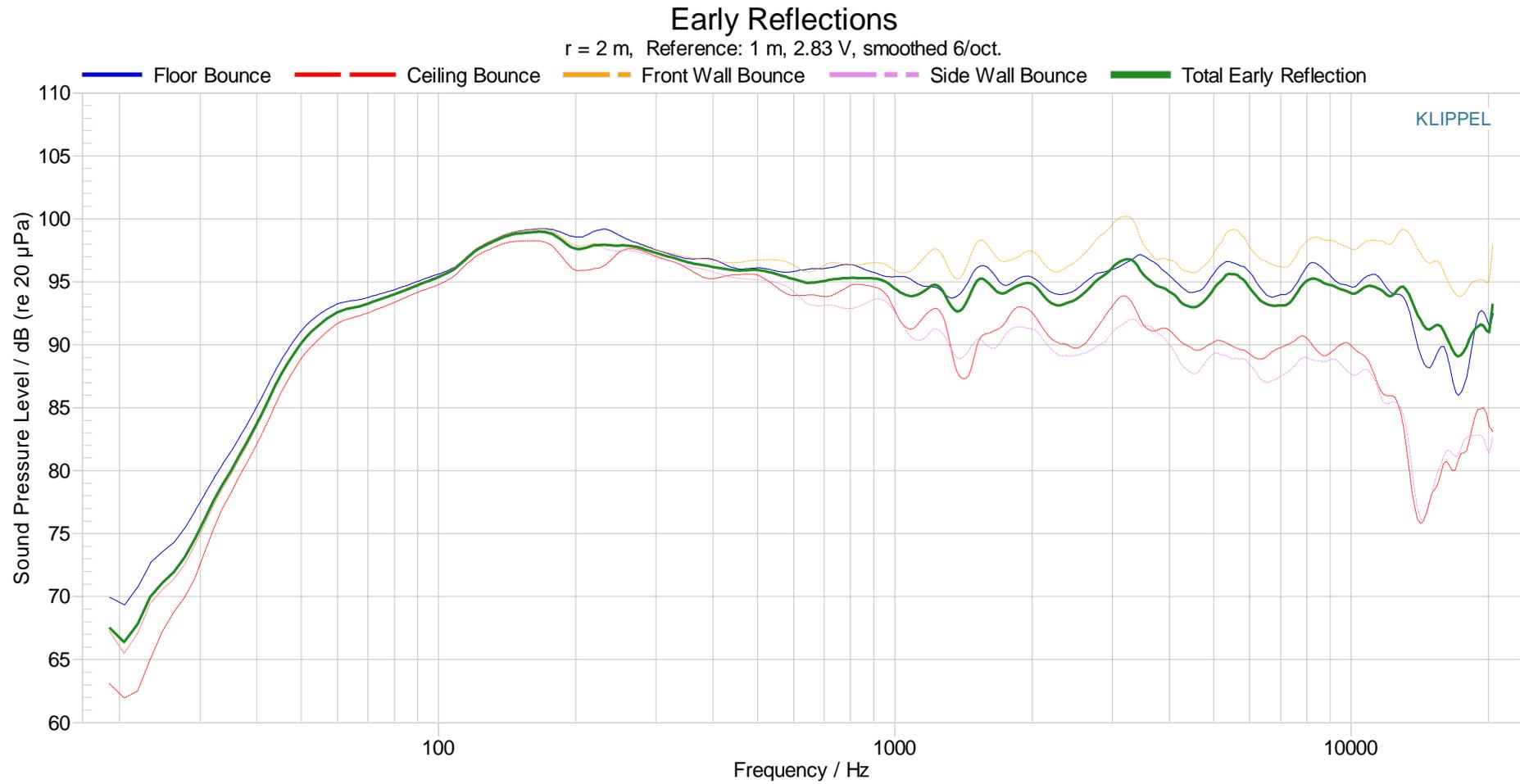
4.2. In-Room response

1/6 oct. Smoothing



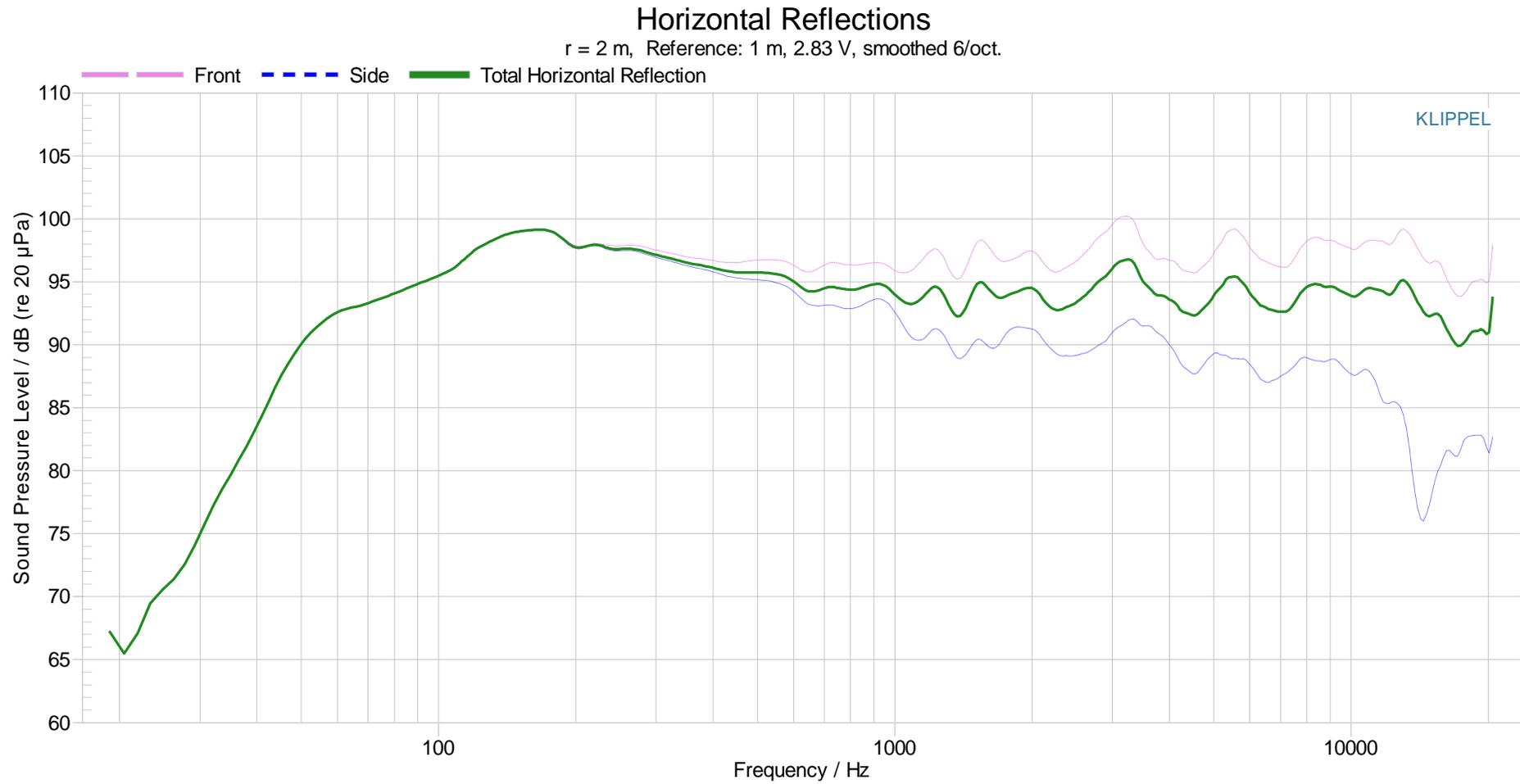
4.3. Early reflections

1/6 oct. Smoothing



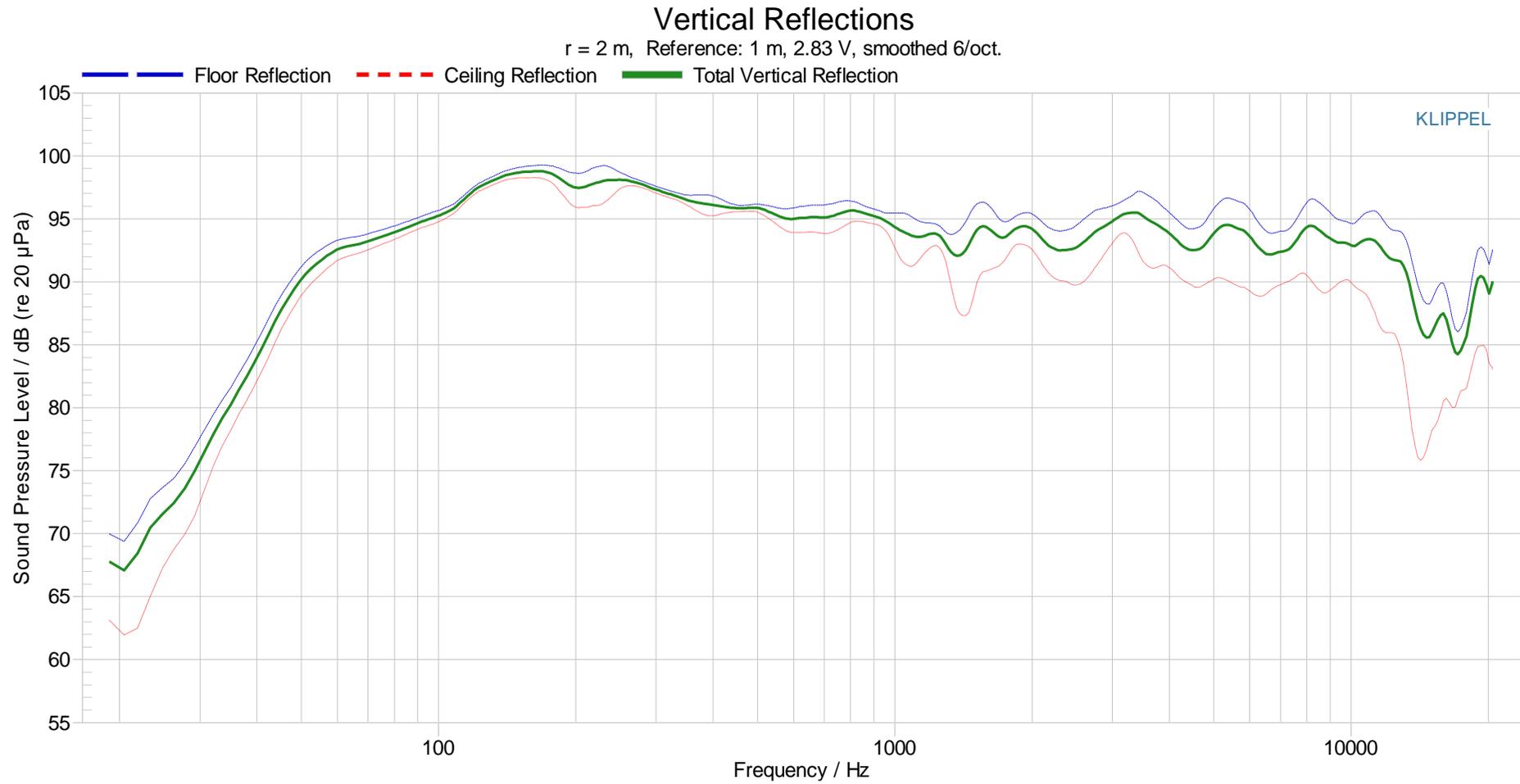
4.4. Horizontal Reflections

1/6 oct. Smoothing



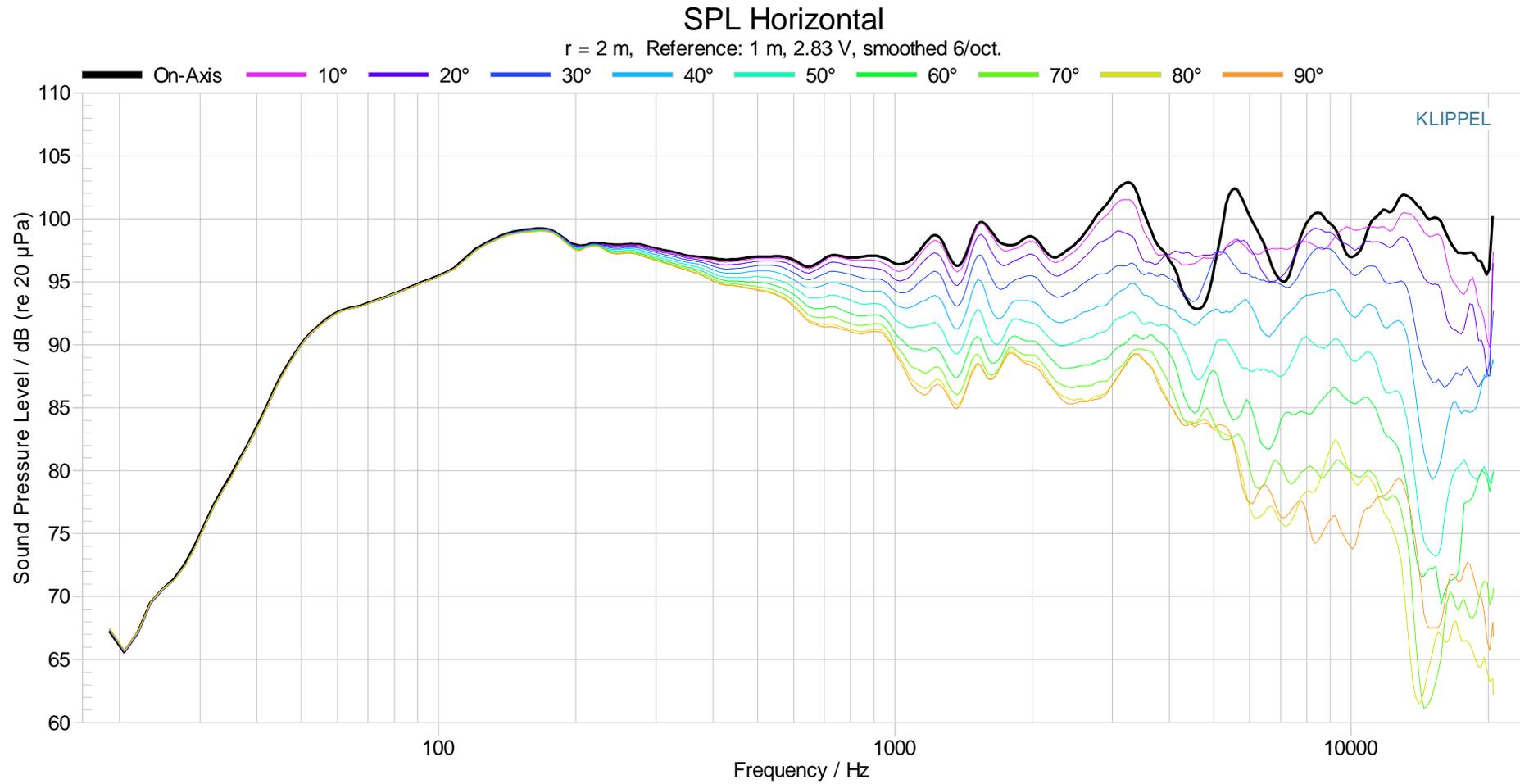
4.5. Vertical Reflections

1/6 oct. Smoothing



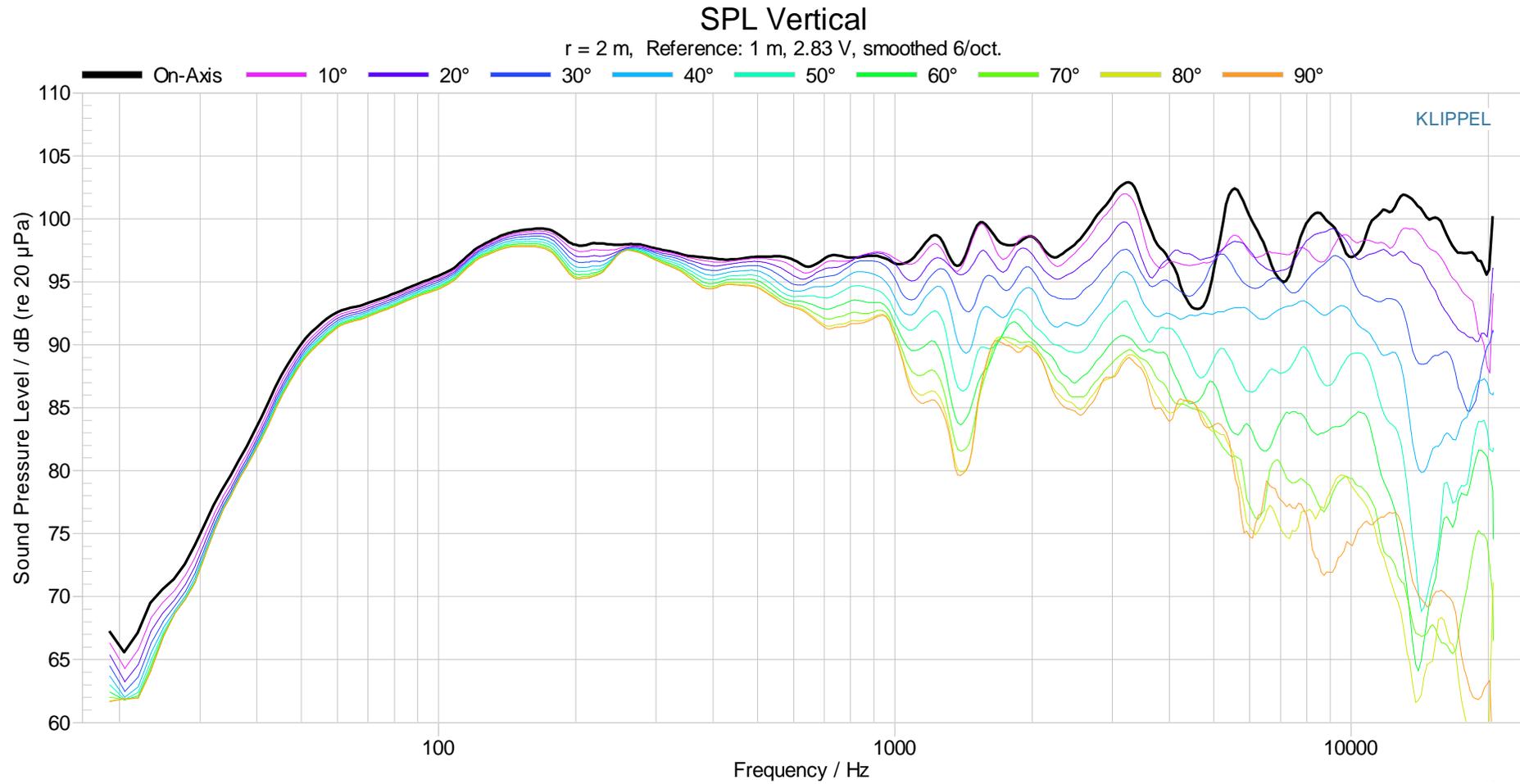
4.6. Horizontal Frequency Response

1/6 oct. Smoothing



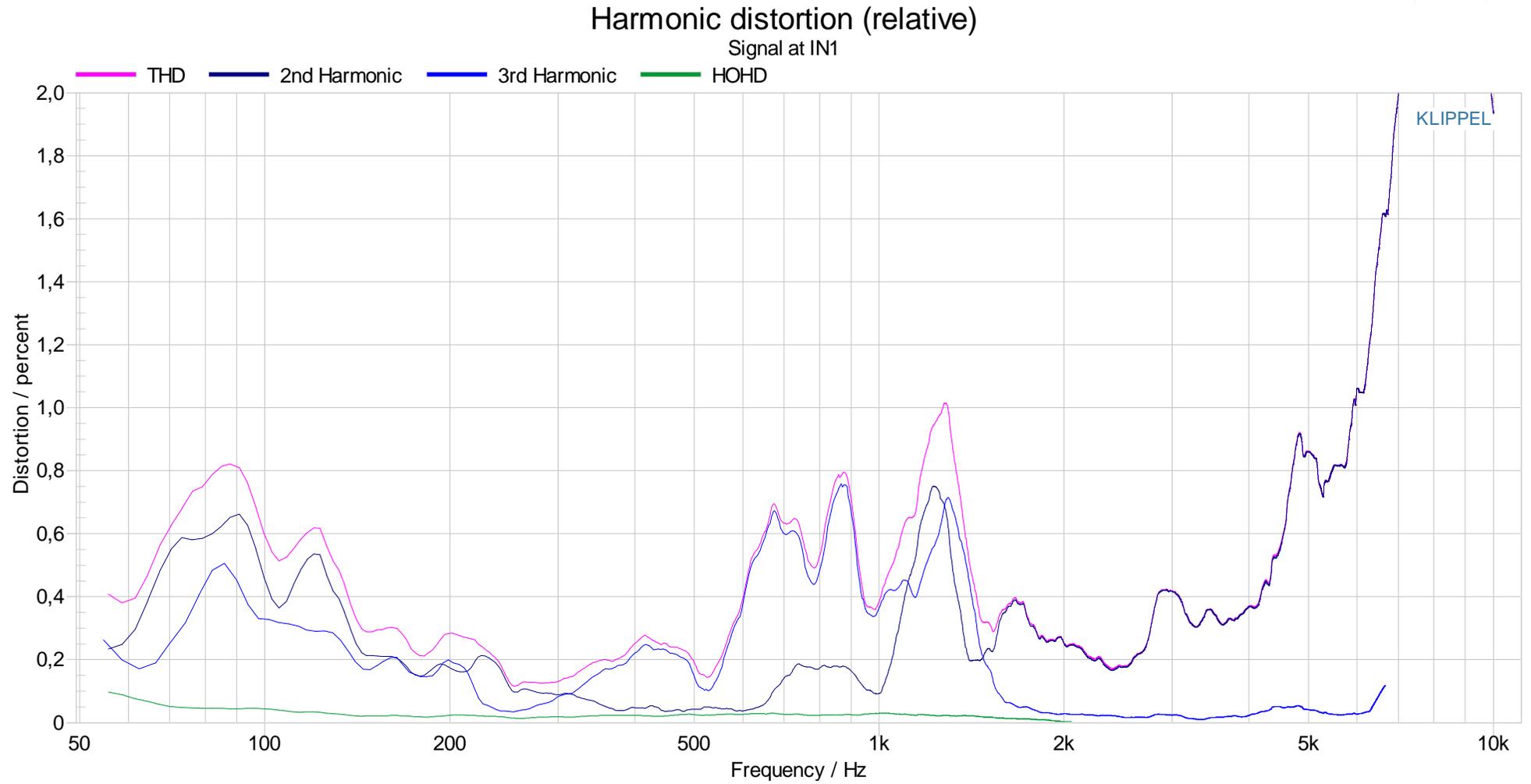
4.7. Vertical Frequency Response

1/6 oct. Smoothing



5. Harmonic Distortion

1/6 oct. Smoothing – +7dBu Stimulus



6. MTON Max SPL – 1s Stimulus

6.1. Results

Results of last passed measurement

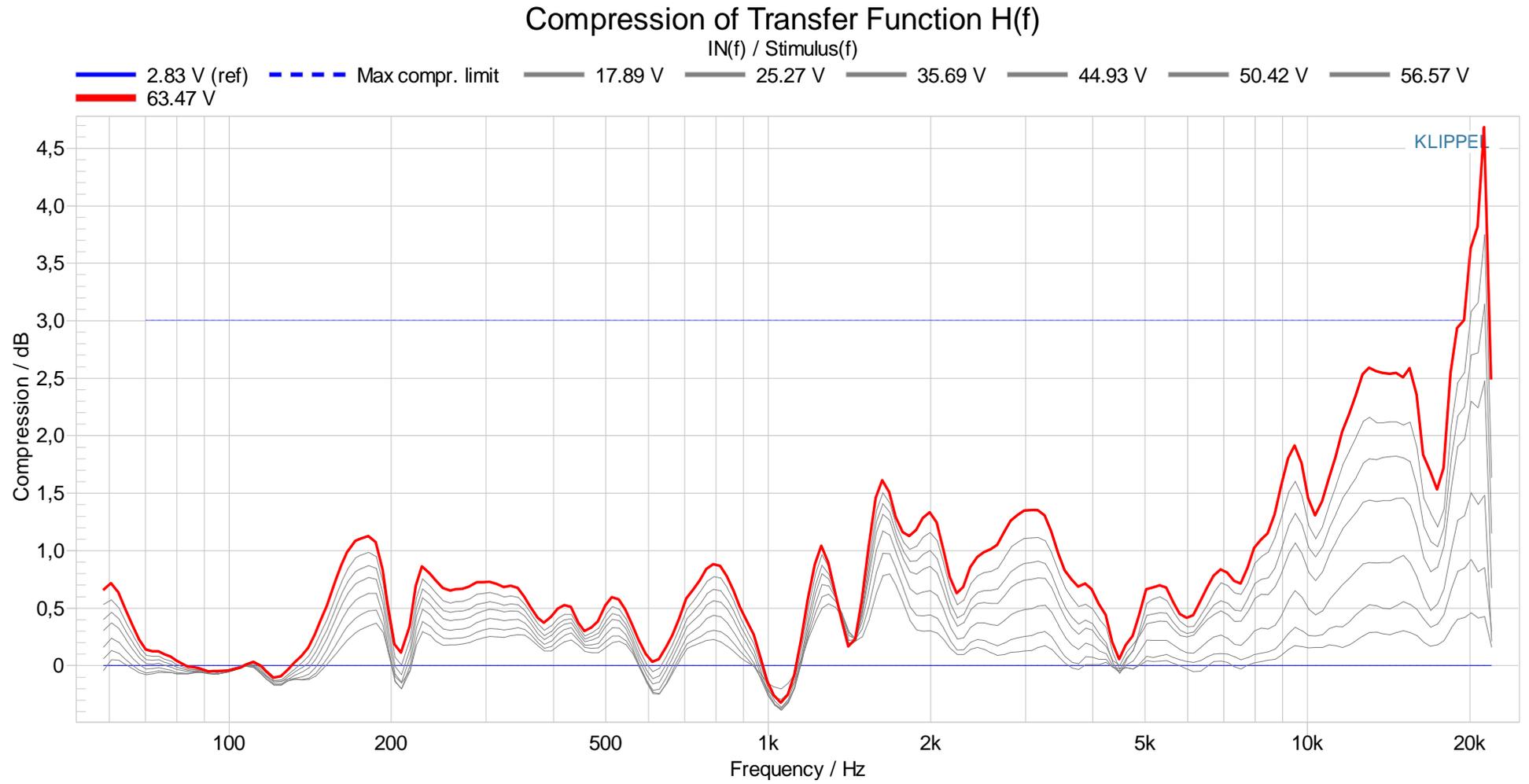
Parameter	Value	Unit	Description
U_{\max}	56.57	V	Root mean square of stimulus.
SPL_{\max}	123.2	dB	Sum level of fundamentals in microphone signal.
C_{\max}	2.55	dB	Max compression in the frequency range 70 - 19557 Hz.
RMD_{\max}	-24.61 (5.9)	dB(%)	Maximum multi-tone distortion of microphone signal relative to mean value.
TMDR	-15.61 (16.6)	dB(%)	Total multi-tone distortion ratio of microphone signal.

Stimulus properties

Parameter	Value	Unit	Description
f_{\min}	58.59	Hz	Lowest multi-tone frequency line
f_{\max}	21951.17	Hz	Highest multi-tone frequency line
t	0.51	s	Signal duration
K	3	-	Kurtosis
C	11.79	dB	Crest factor

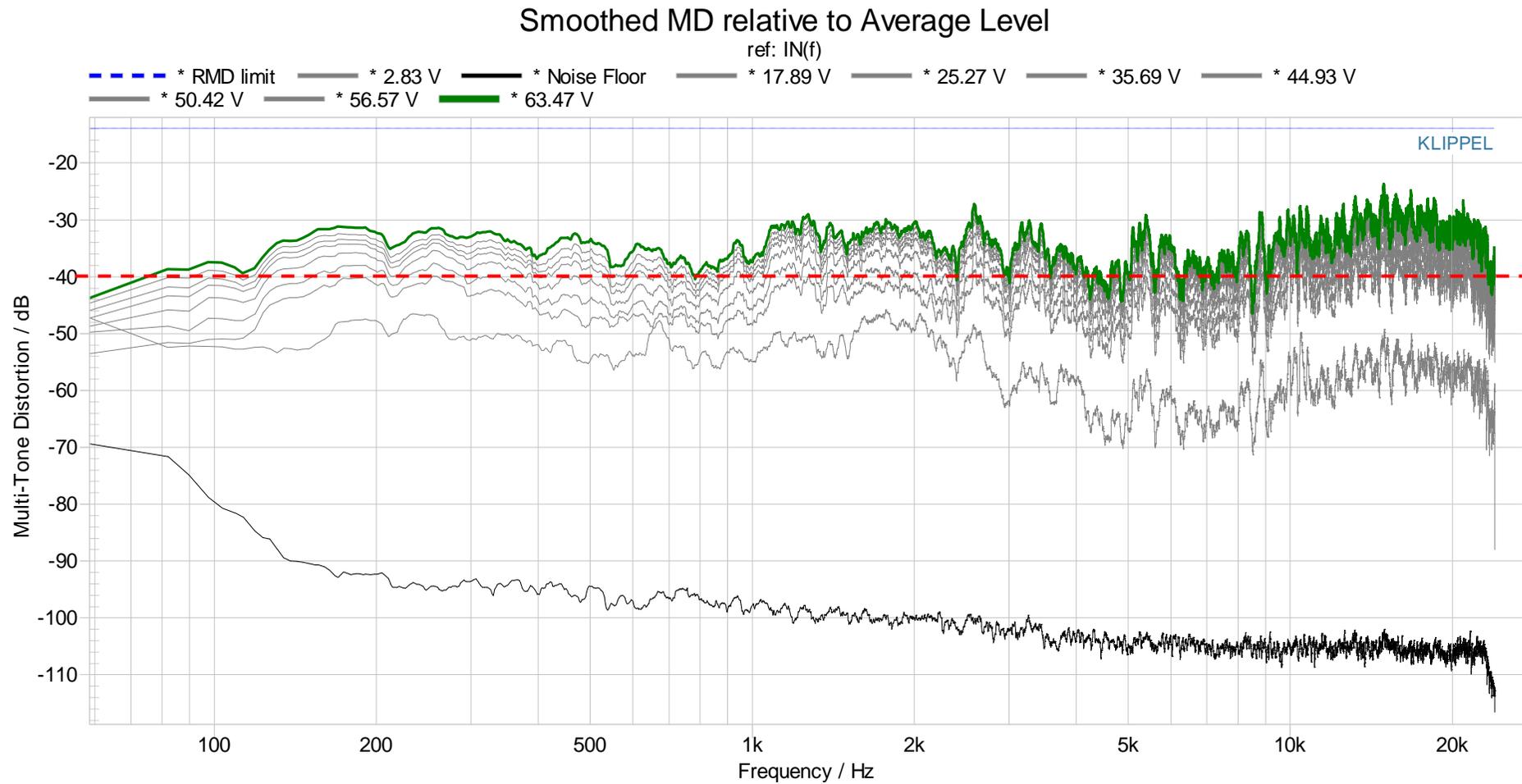
6.2. Compression Chart

-32dB Voltage Values – 1/6 Smoothing



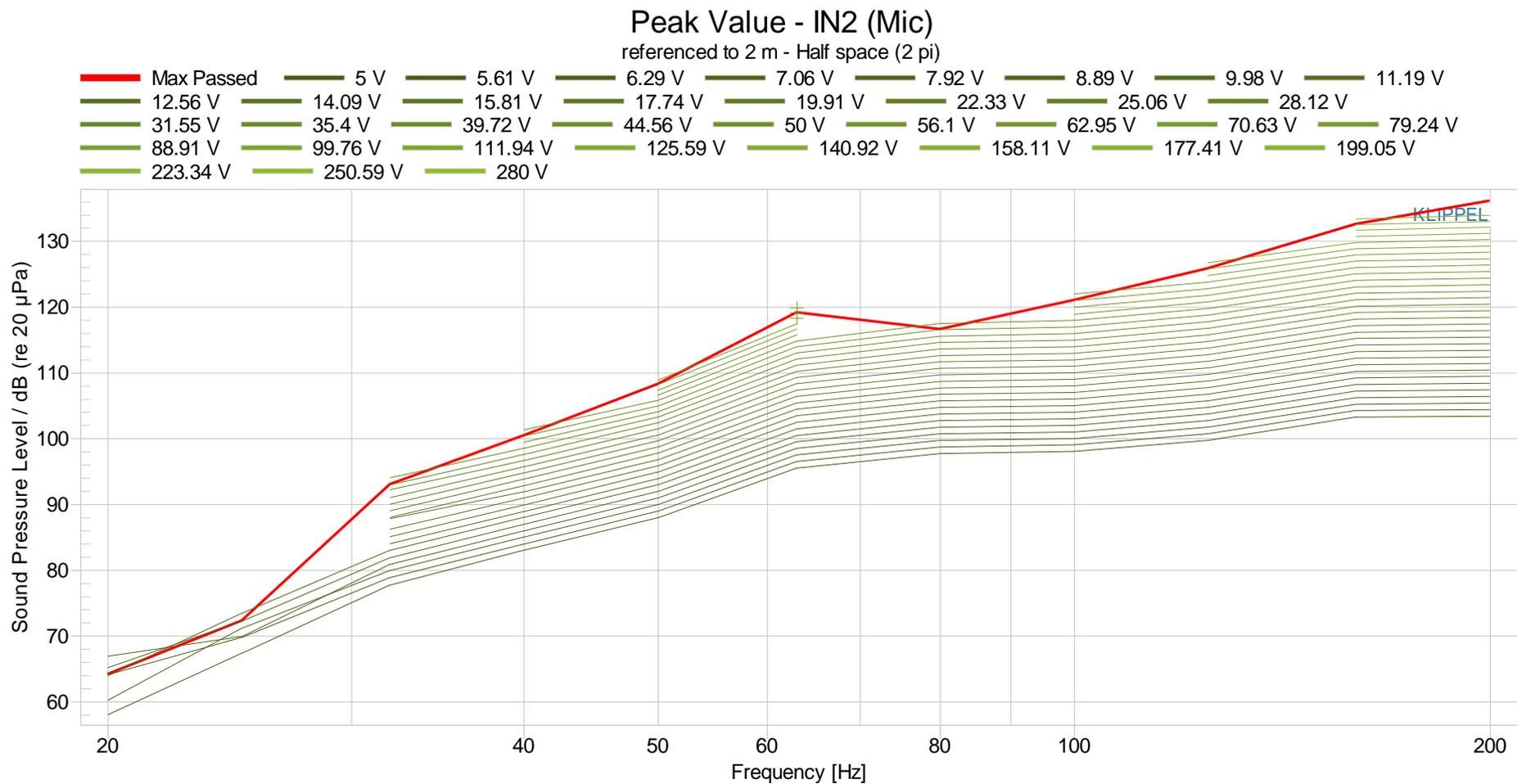
6.3. Multi Tone Distortion Chart

-32dB Voltage Values – No Smoothing



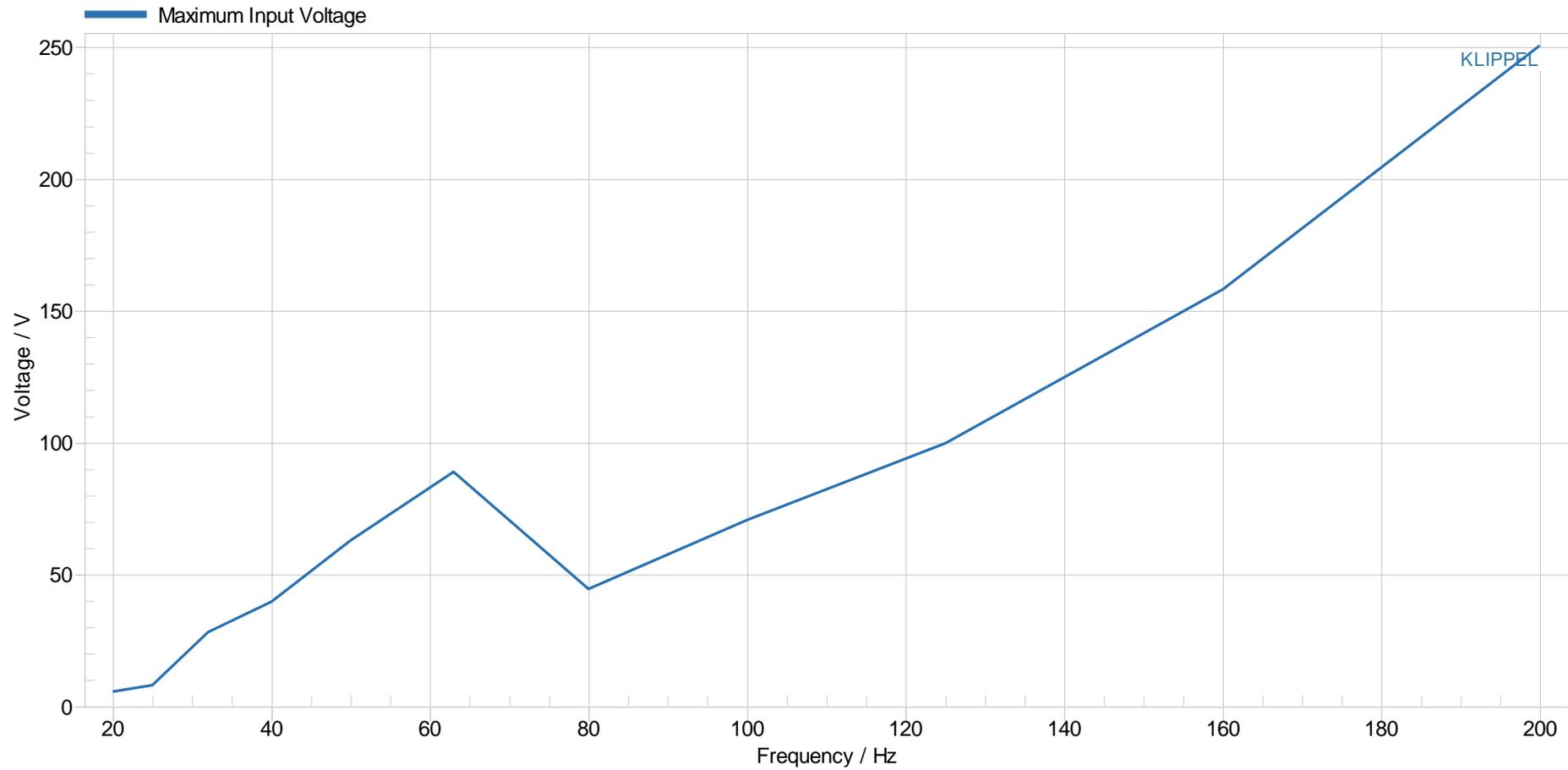
7. CEA2010B

7.1. Max Peak SPL



7.2. Max Peak Voltage

Maximum passed Input Voltage vs. Frequency Profile



7.3. THD on Burst

