



Report of THE15 Be PRO PASSIVE ON WALL

ASCENDO

Date	Author	Changes	Version
07/07/2022	GL		V1

Summary

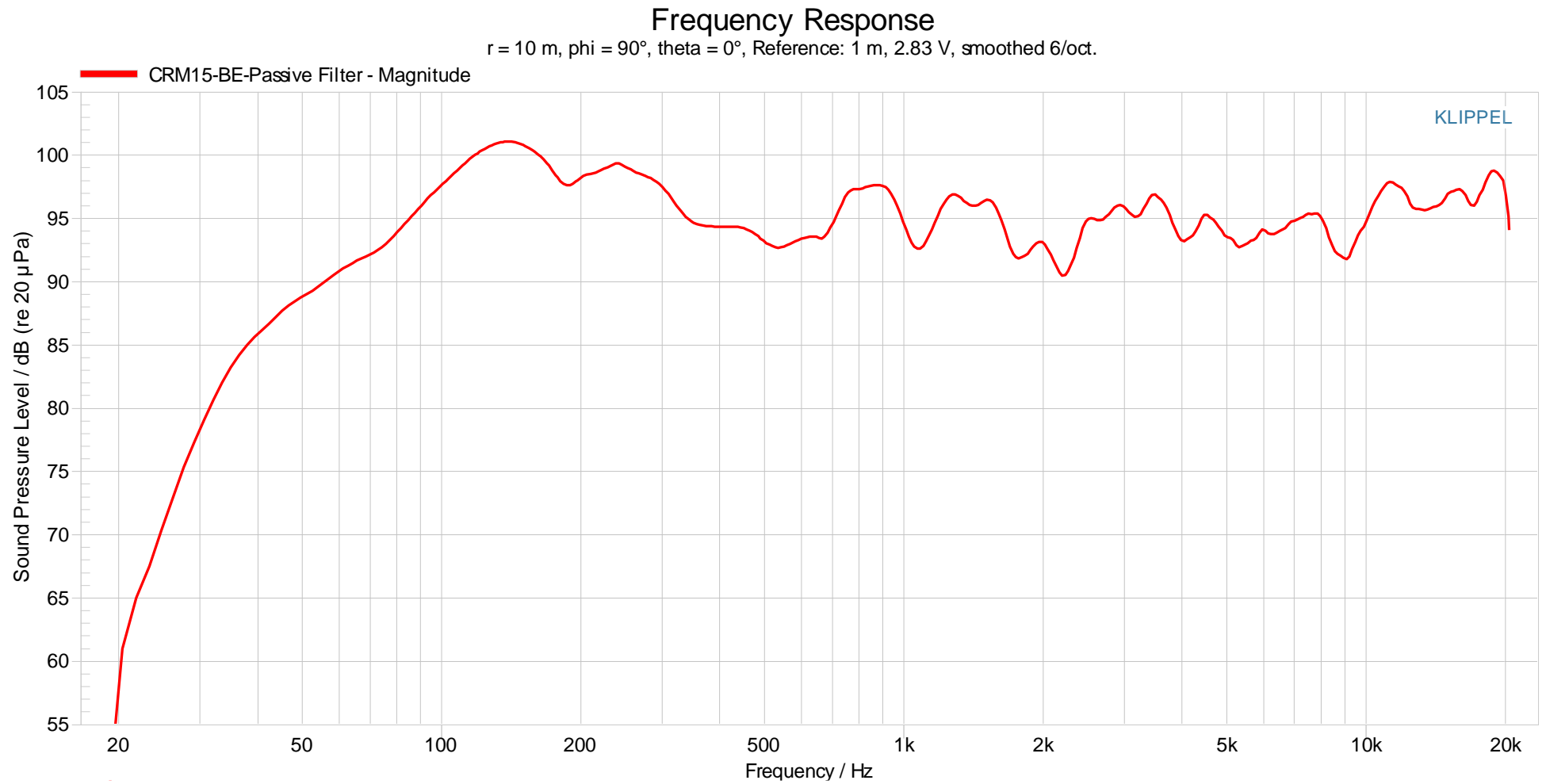
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1. Pictures of measurements



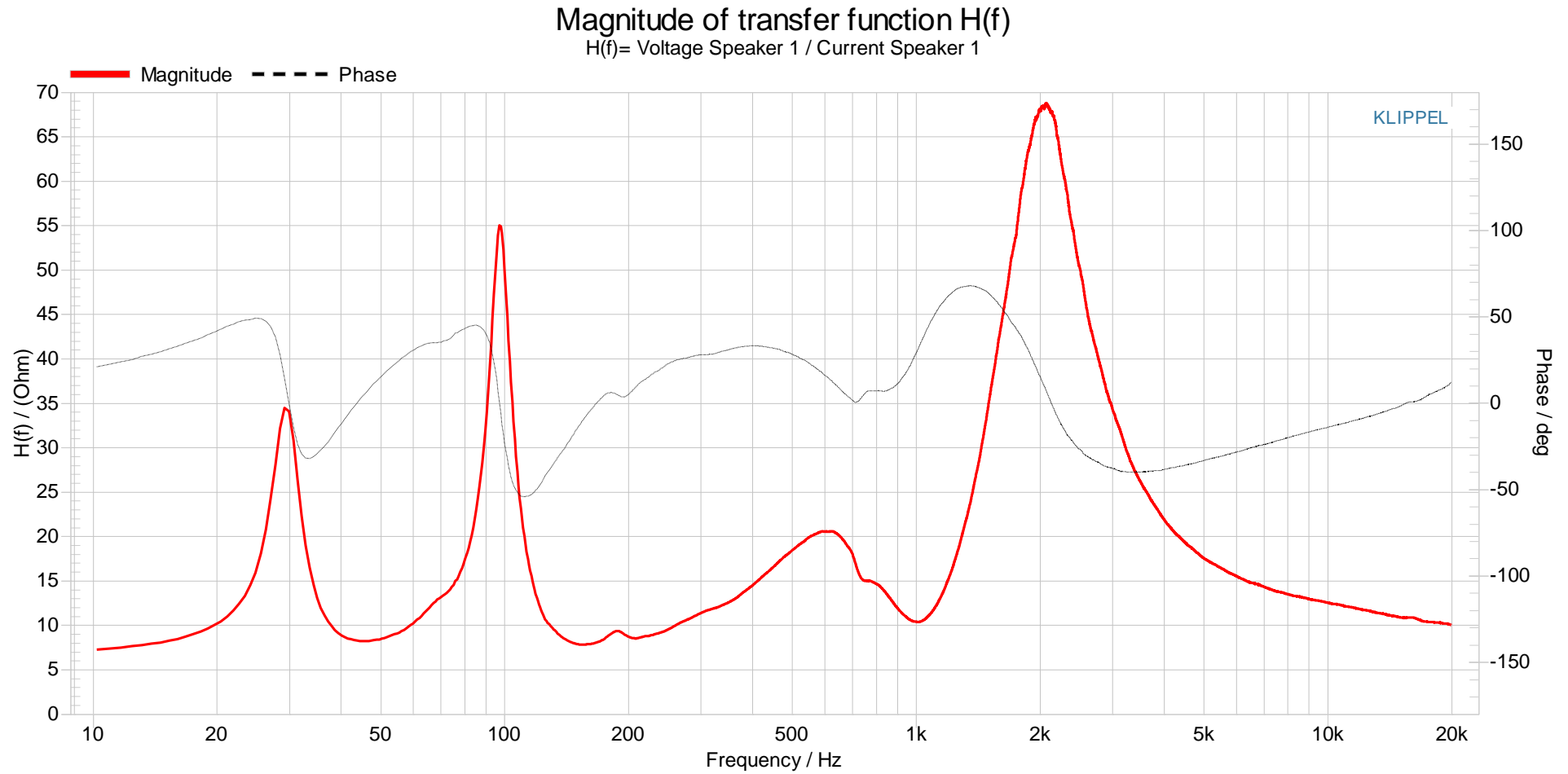
2. Frequency Response

2,83v @1m – 1/6 oct. Smoothing



3. Impedance Curve

1v – No. Smoothing



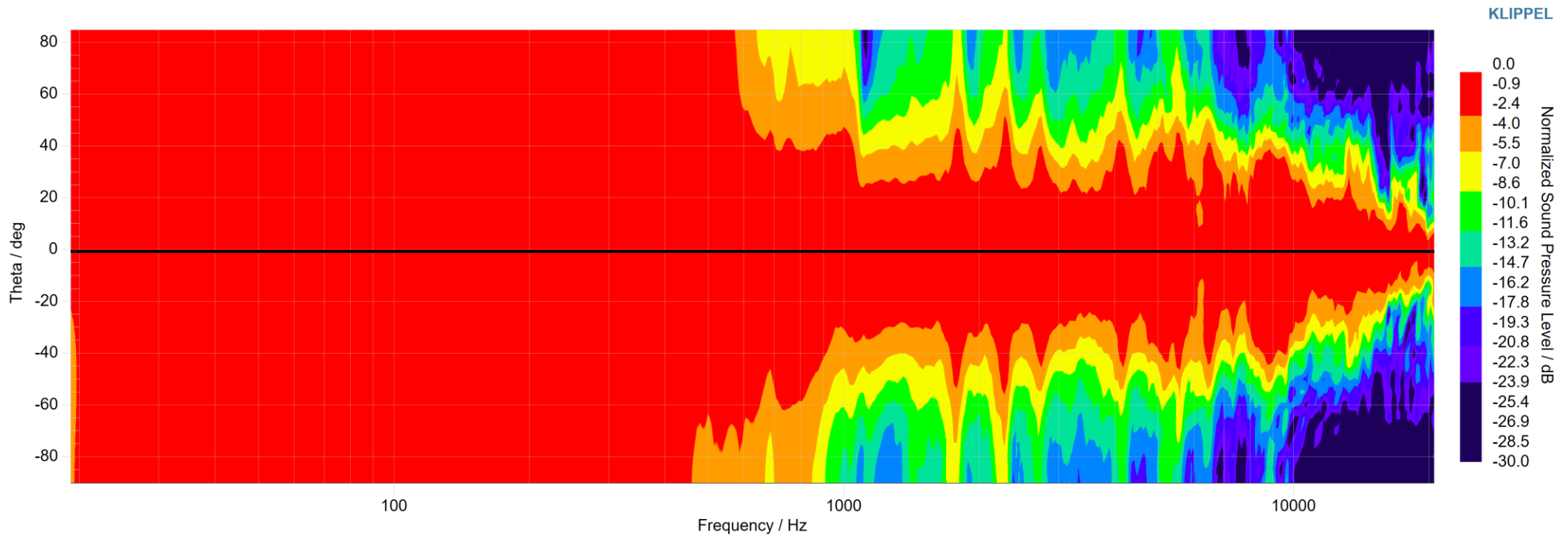
4. Contour Plot

4.1. Horizontal

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

Contour Plot - Horizontal

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



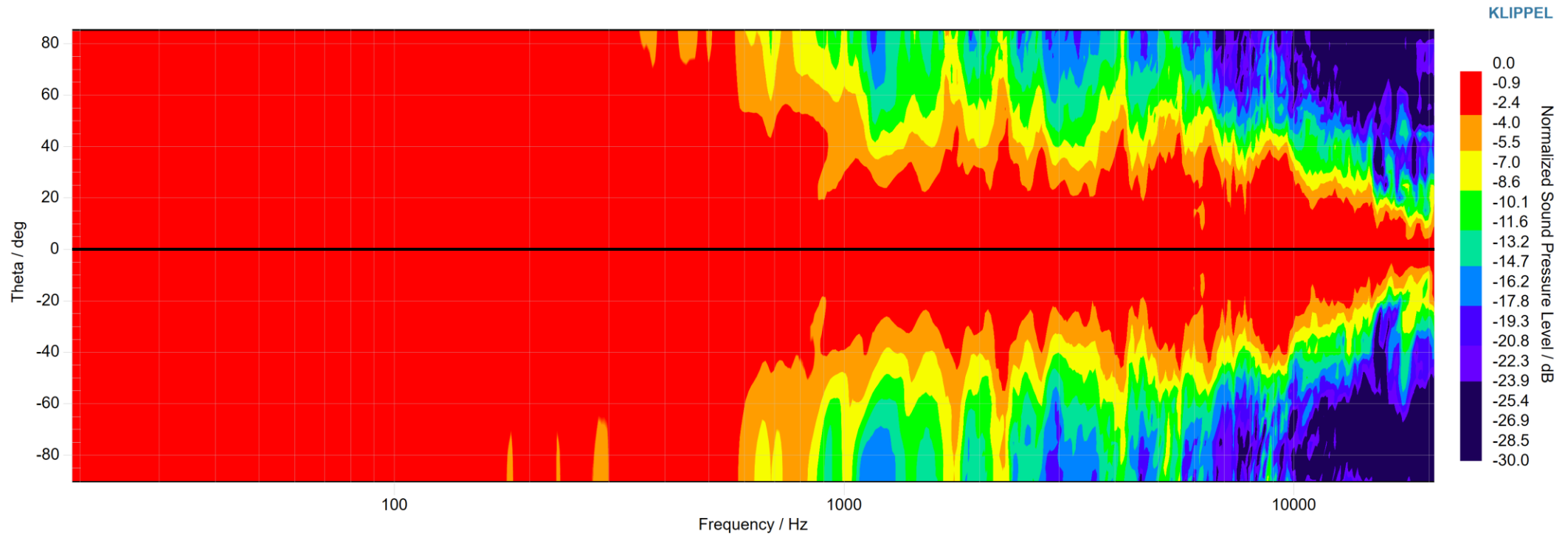
Normalized on Axis – 1/6 oct. Smoothing

4.2. Vertical

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

Contour Plot - Vertical

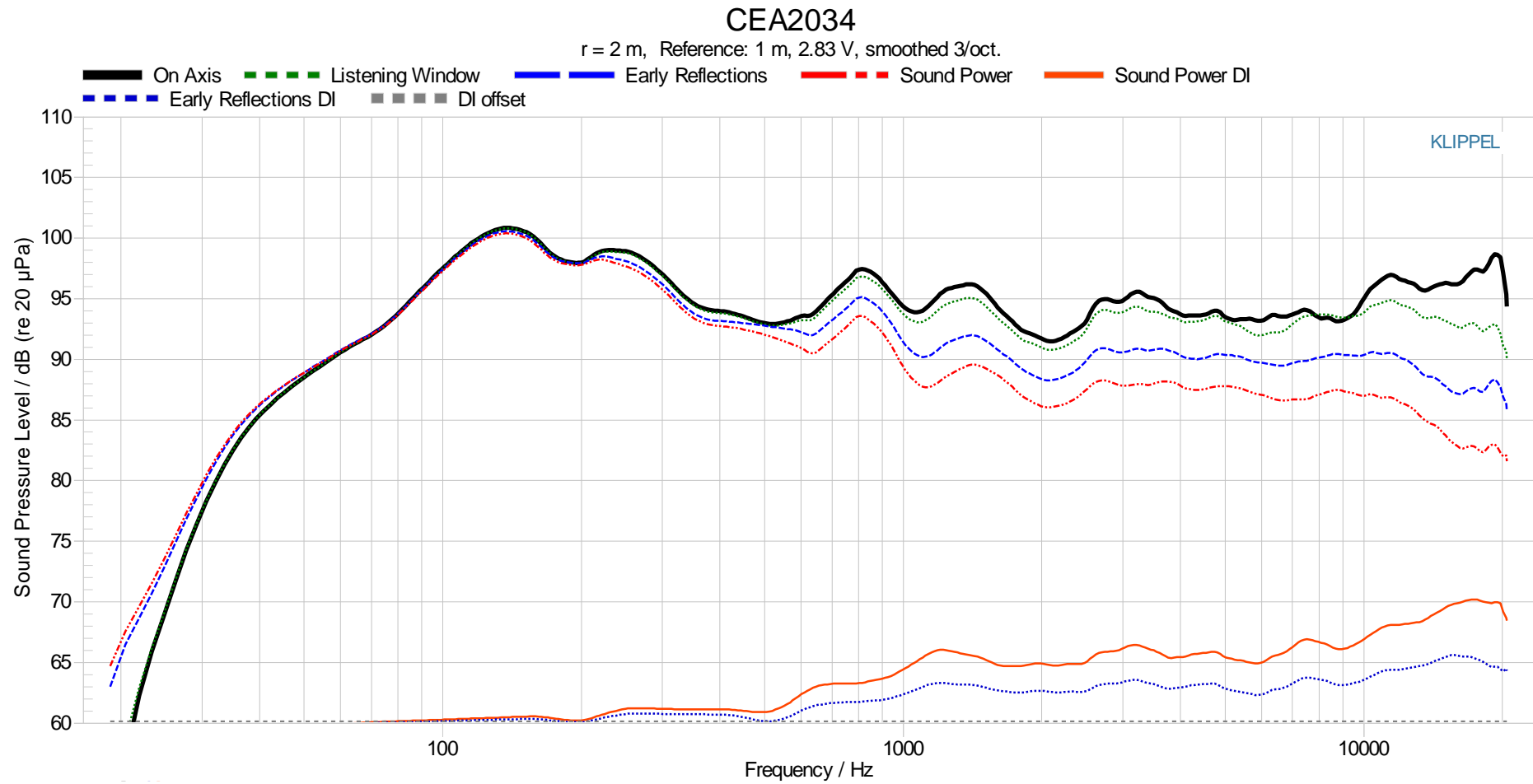
$r = 10$ m, $\phi = 0^\circ$, normalized to On-Axis



Normalized on Axis – 1/6 oct. Smoothing

5. CEA2034 Spinorama

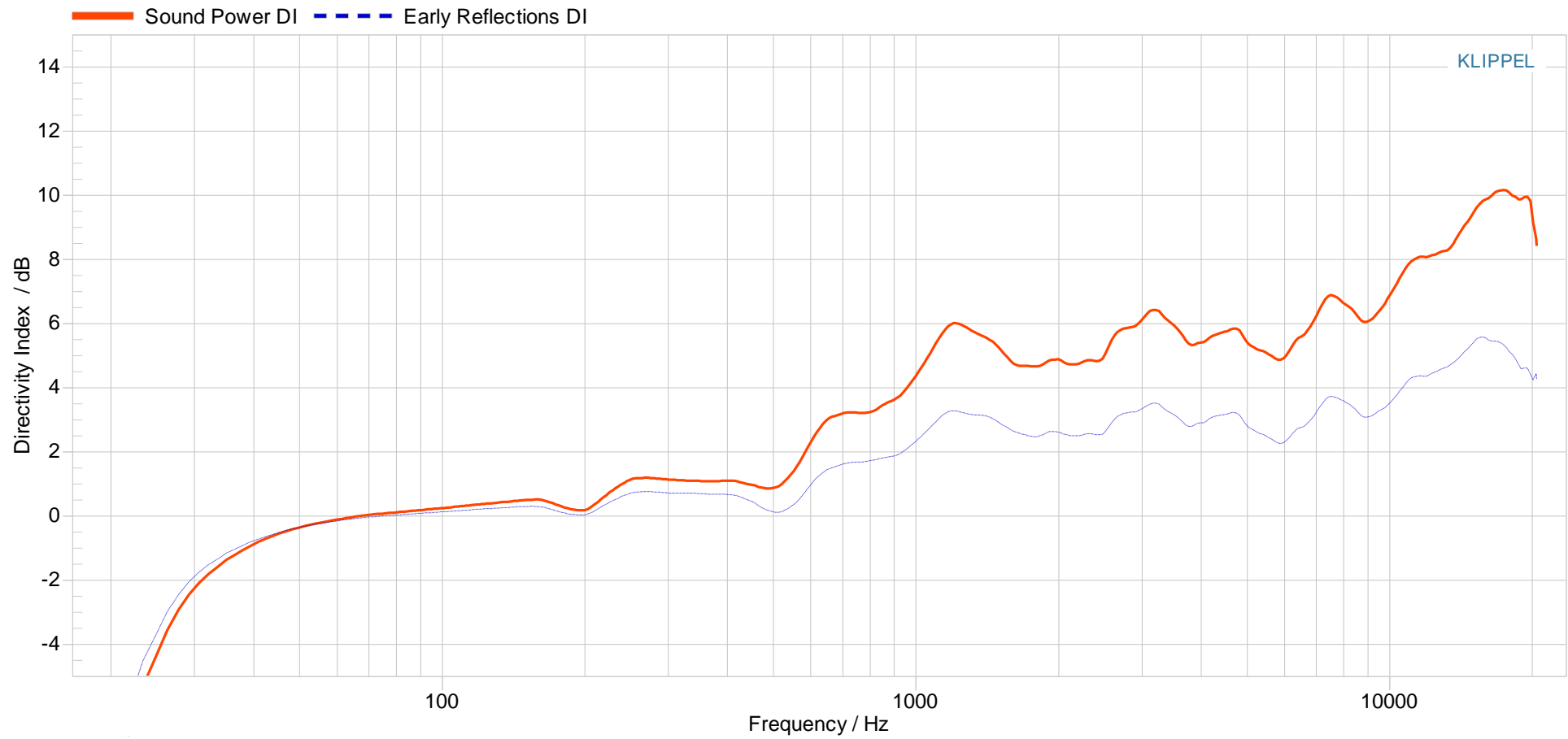
2,83v @1m – 1/6 oct. Smoothing



5.1. Directivity Index

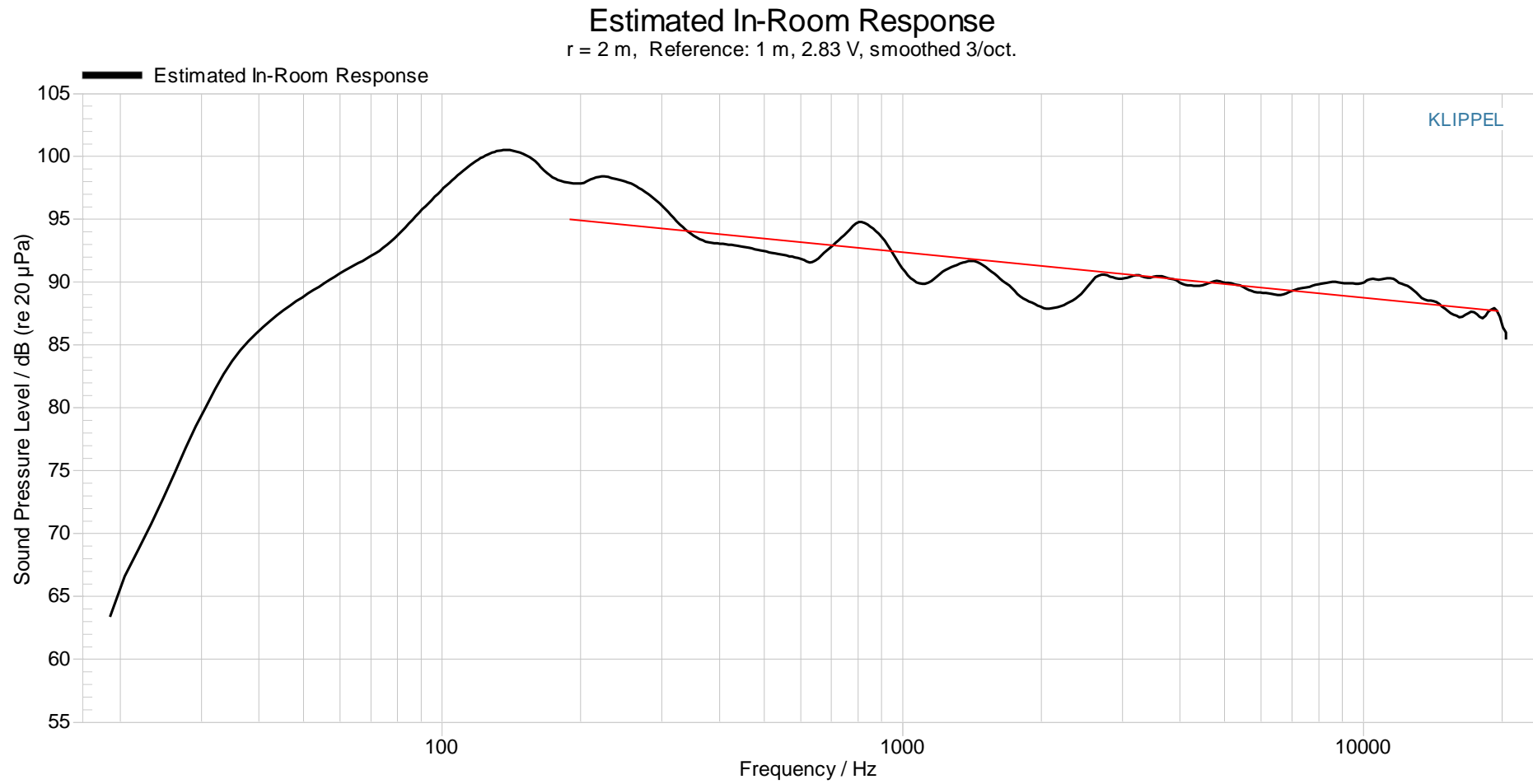
1/6 oct. Smoothing

Directivity Index
smoothed 3/oct.



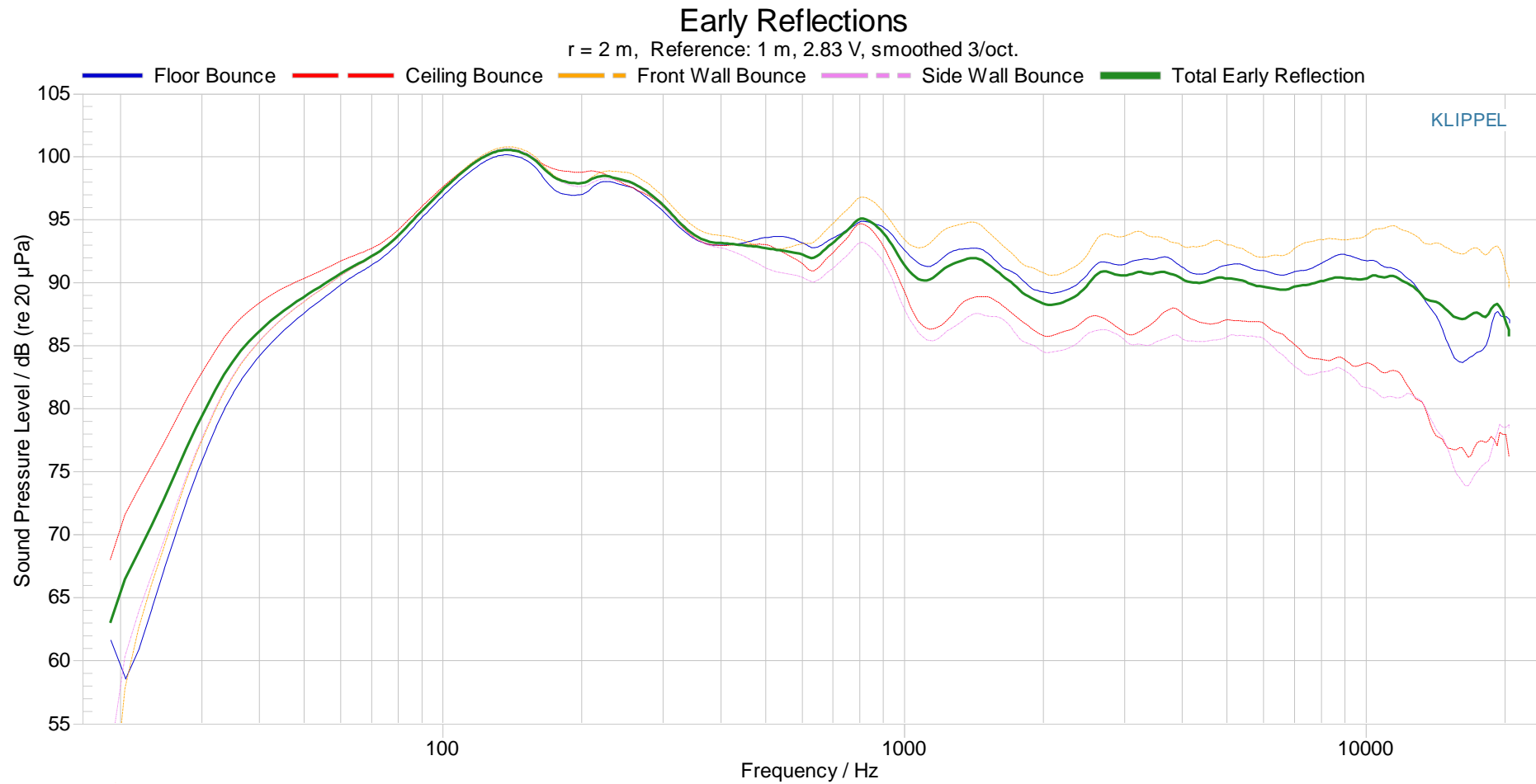
5.2. In-Room response

1/6 oct. Smoothing



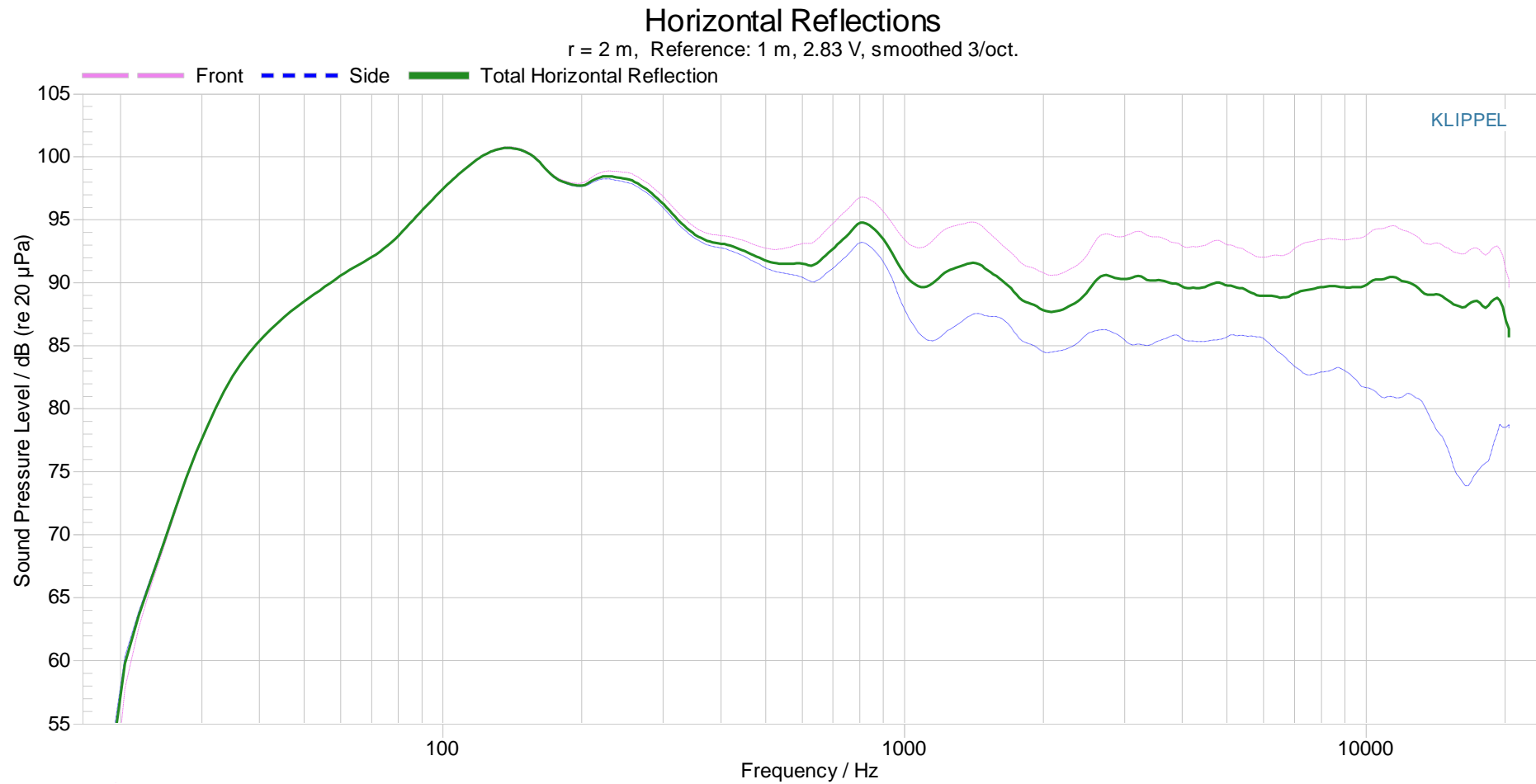
5.3. Early reflections

1/6 oct. Smoothing



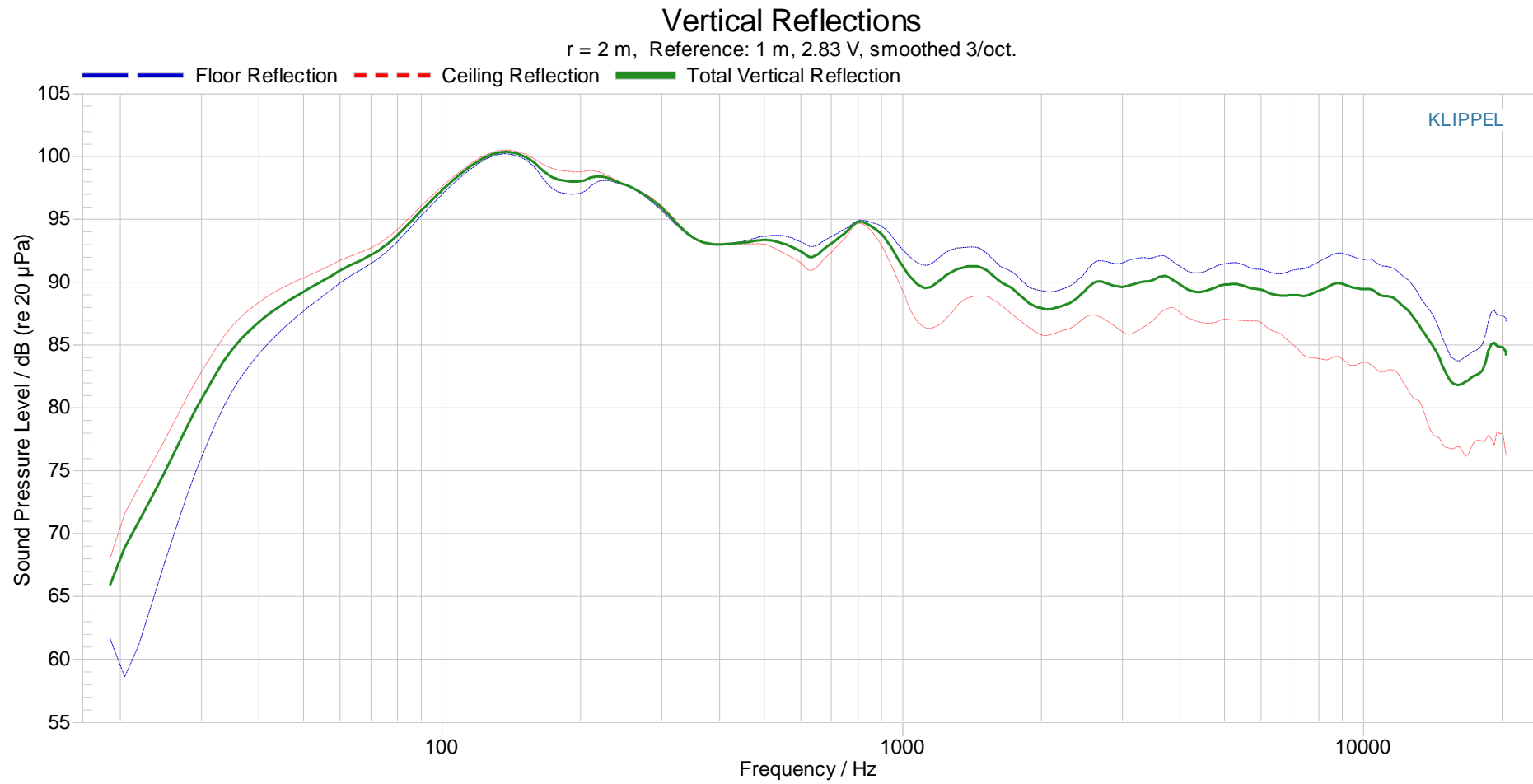
5.4. Horizontal Reflections

1/6 oct. Smoothing



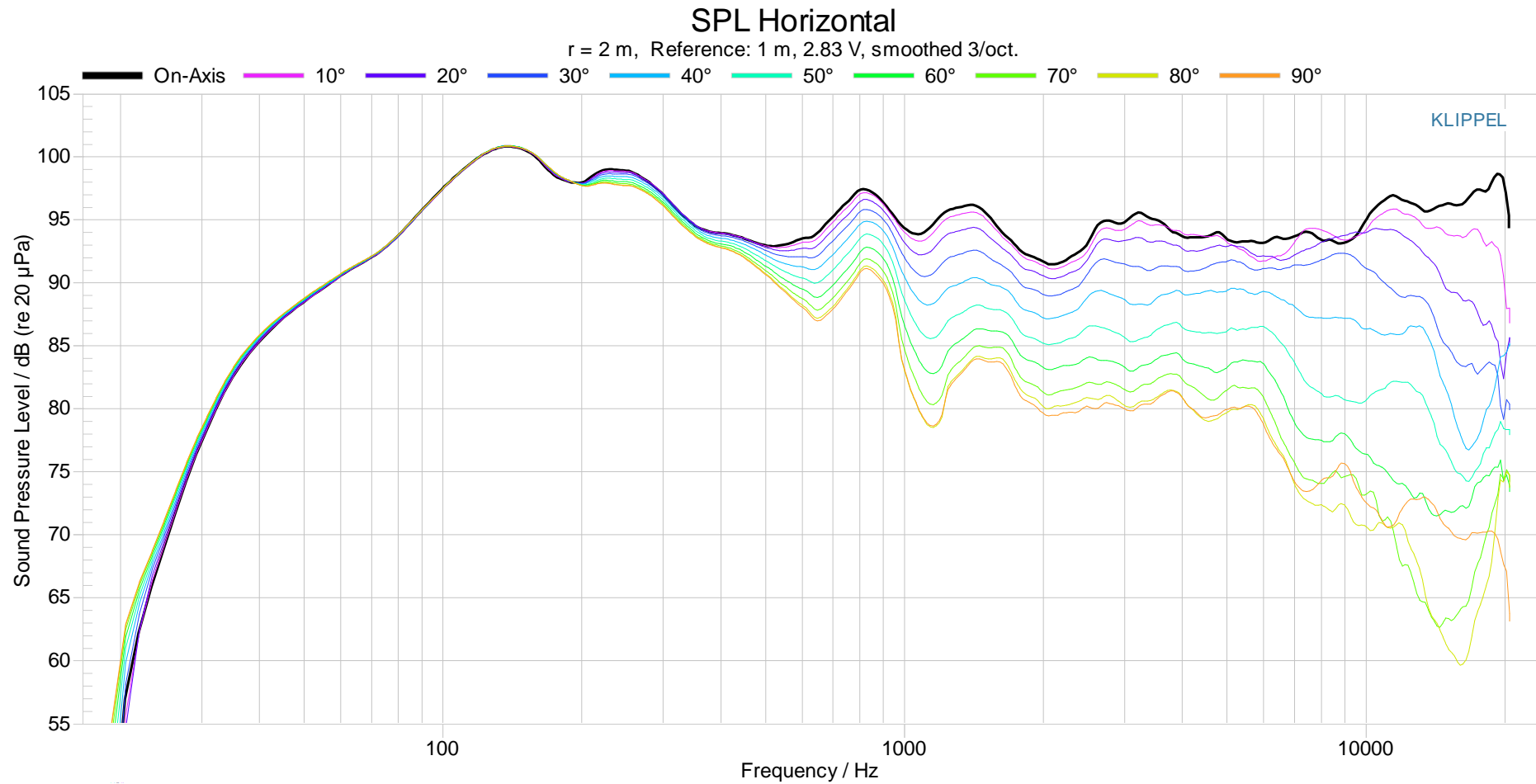
5.5. Vertical Reflections

1/6 oct. Smoothing



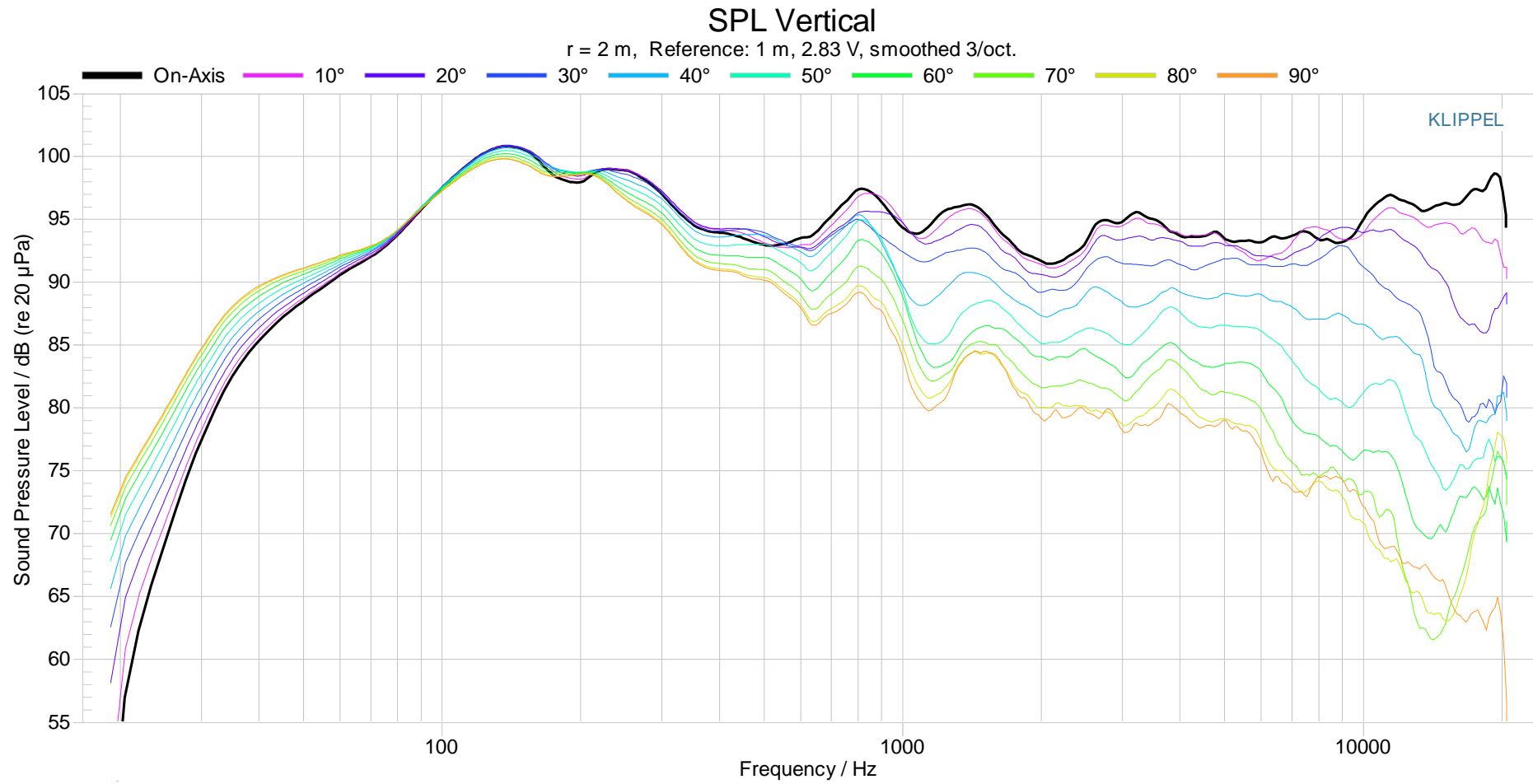
5.6. Horizontal Frequency Response

1/6 oct. Smoothing



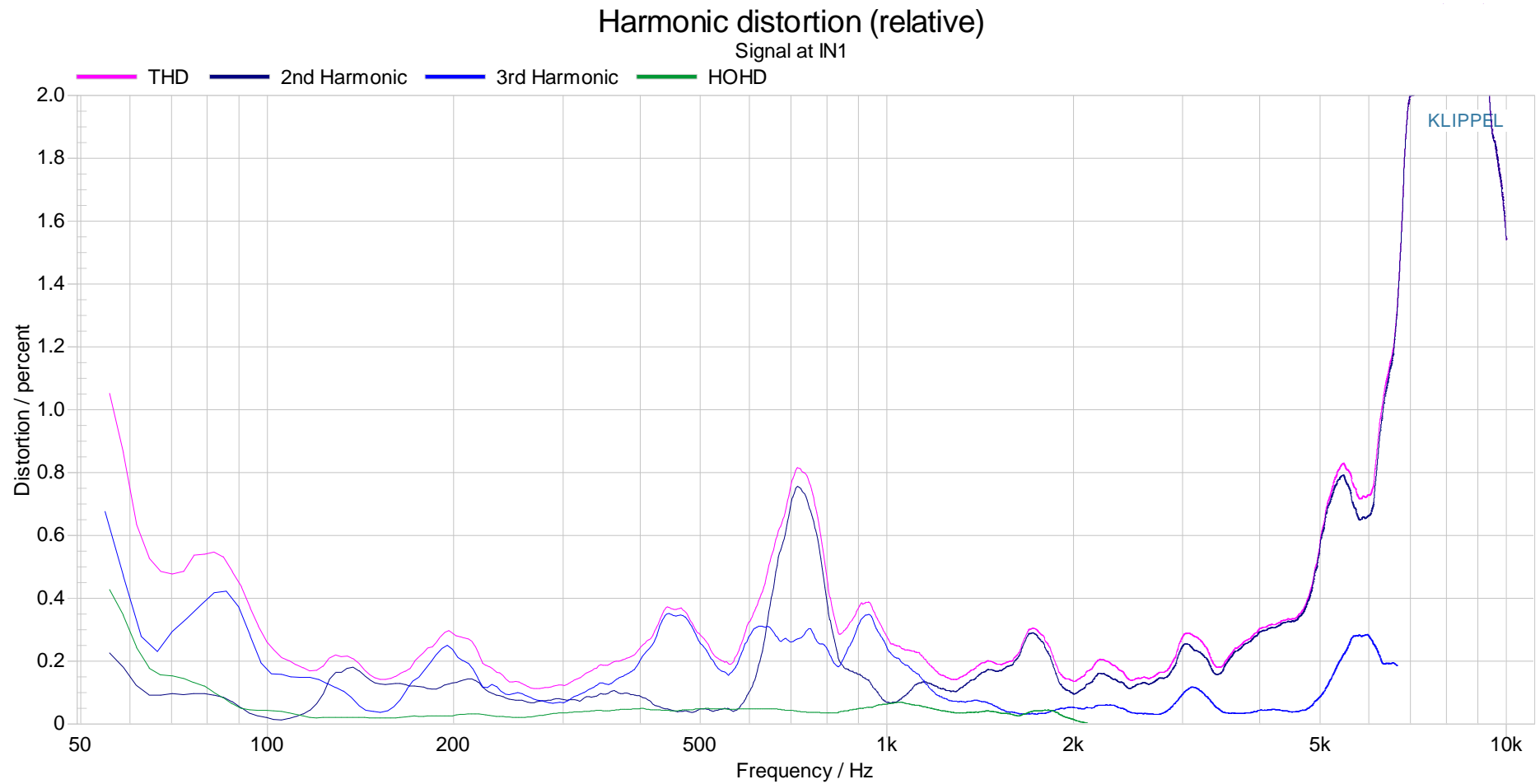
5.7. Vertical Frequency Response

1/6 oct. Smoothing



6. Harmonic Distortion

1/6 oct. Smoothing – +7dBu Stimulus



7. MTON Max SPL – 1s Stimulus

7.1. Results

Results of last passed measurement

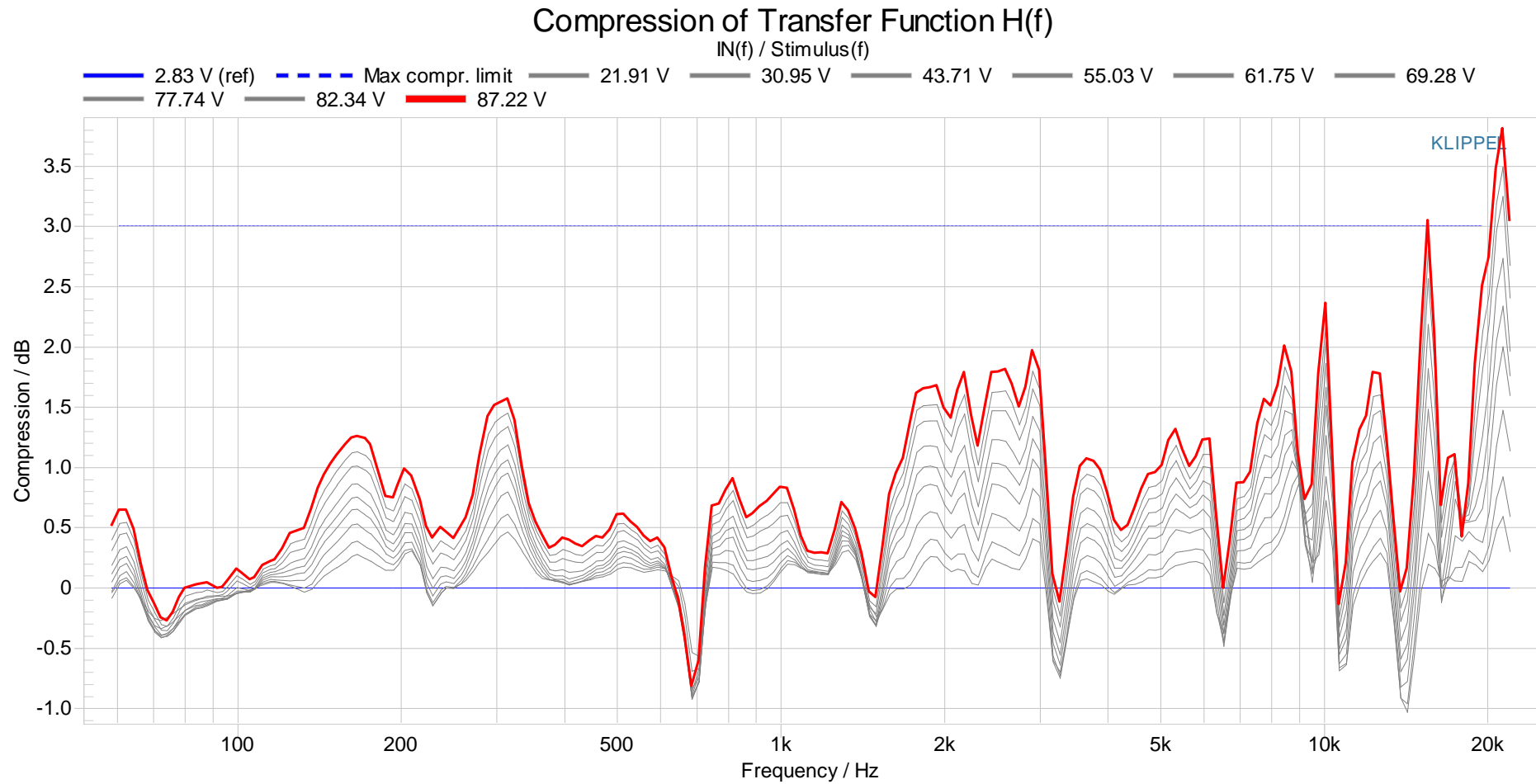
Parameter	Value	Unit	Description
U_{\max}	82.34	V	Root mean square of stimulus.
SPL_{\max}	124.84	dB	Sum level of fundamentals in microphone signal.
C_{\max}	2.8	dB	Max compression in the frequency range 61 - 19557 Hz.
RMD_{\max}	-25.02 (5.6)	dB (%)	Maximum multi-tone distortion of microphone signal relative to mean value.
TMDR	-14.87 (18.1)	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

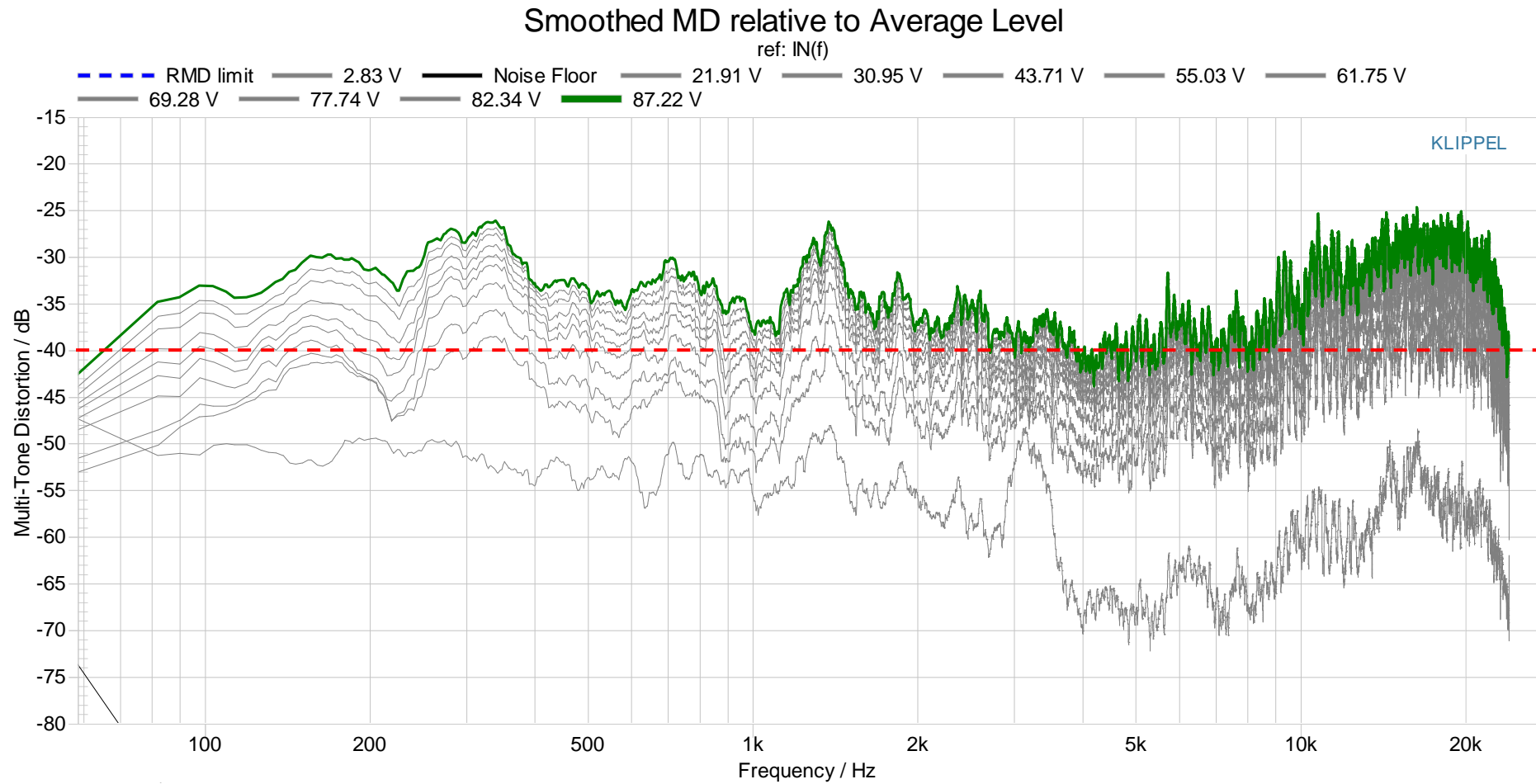
7.2. Compression Chart

-32dB Voltage Values – 1/6 Smoothing



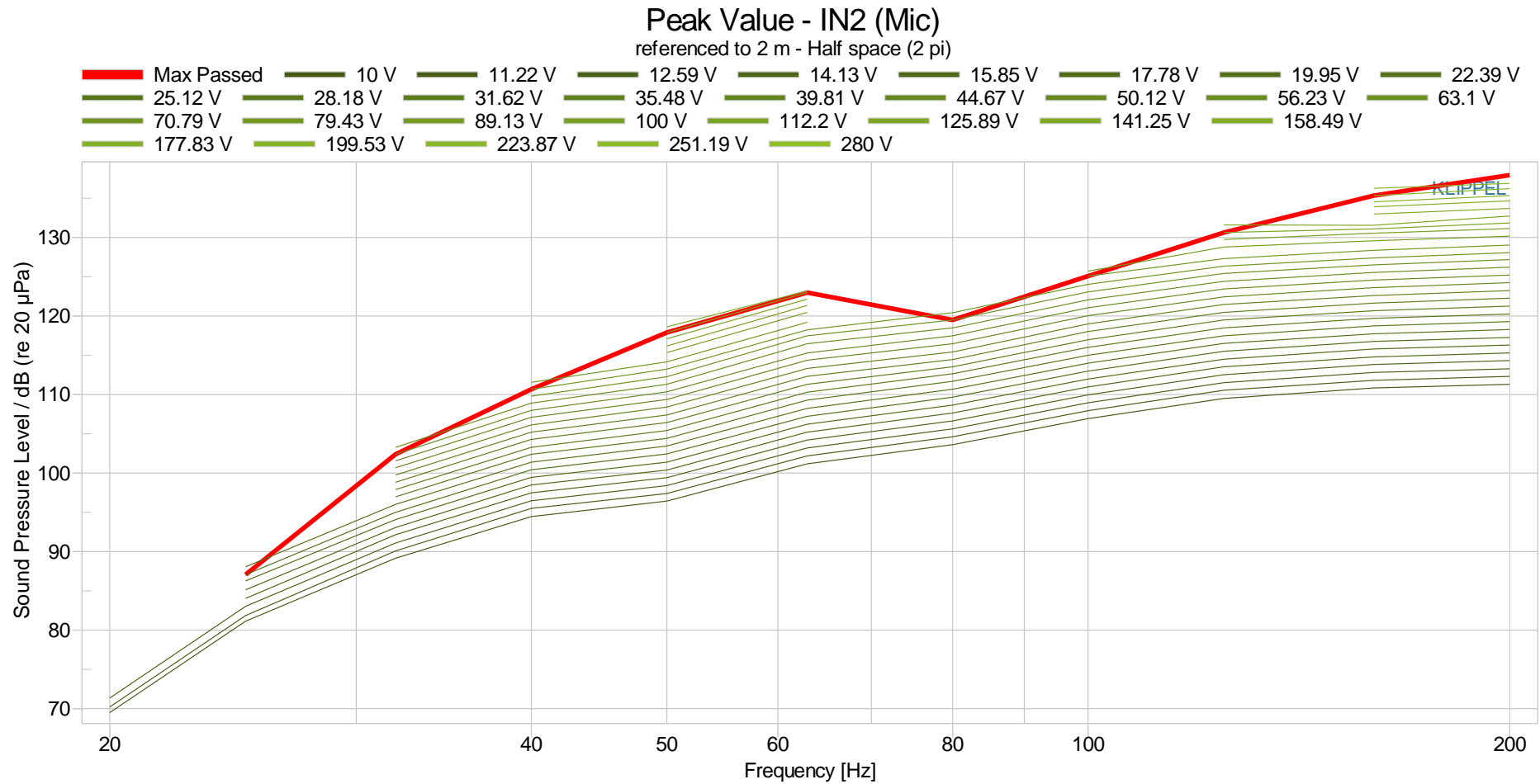
7.3. Multi Tone Distortion Chart

-32dB Voltage Values – No Smoothing



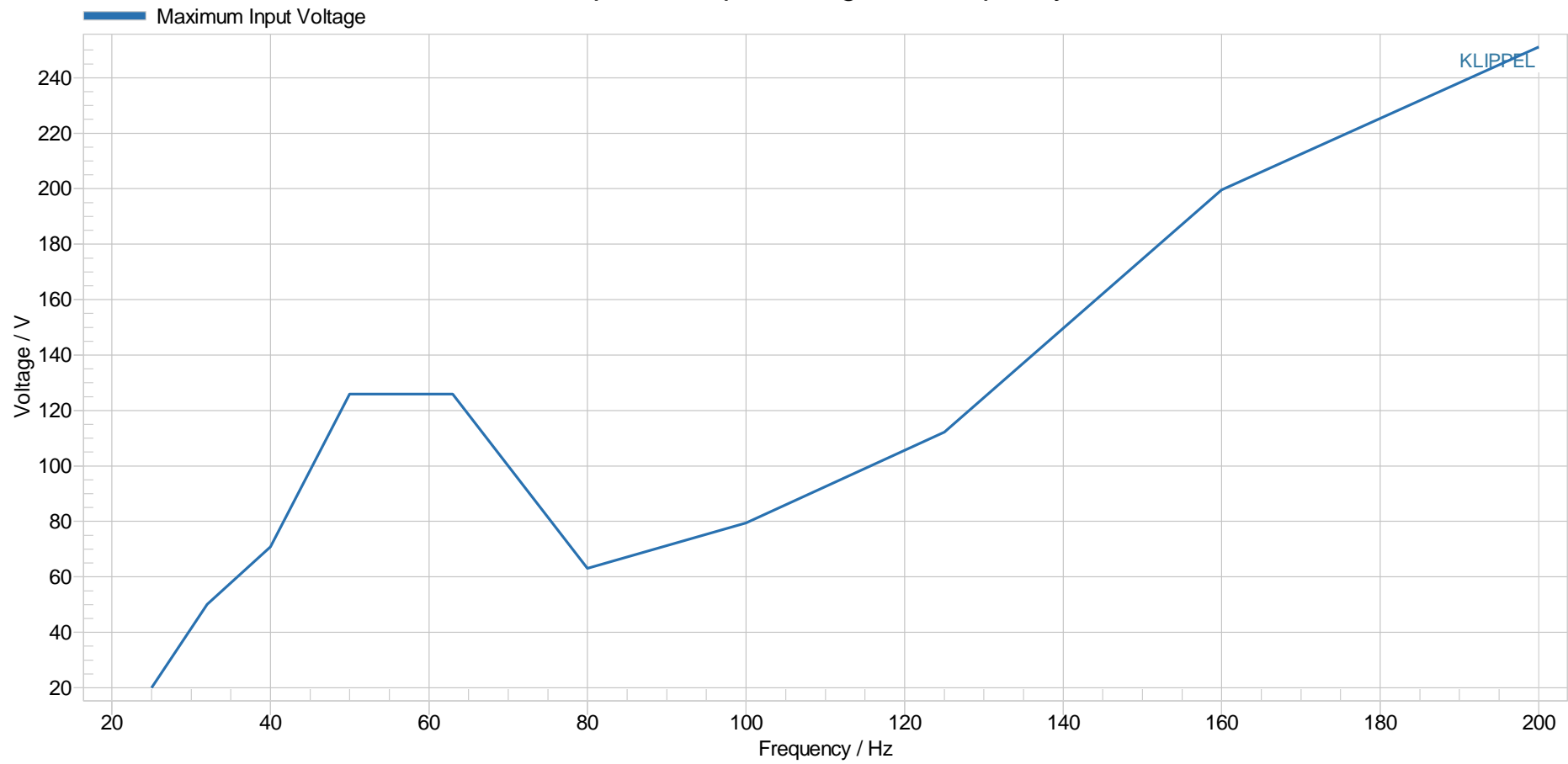
8. CEA2010B

8.1. Max Peak SPL



8.2. Max Peak Voltage

Maximum passed Input Voltage vs. Frequency Profile



8.3. THD on Burst

