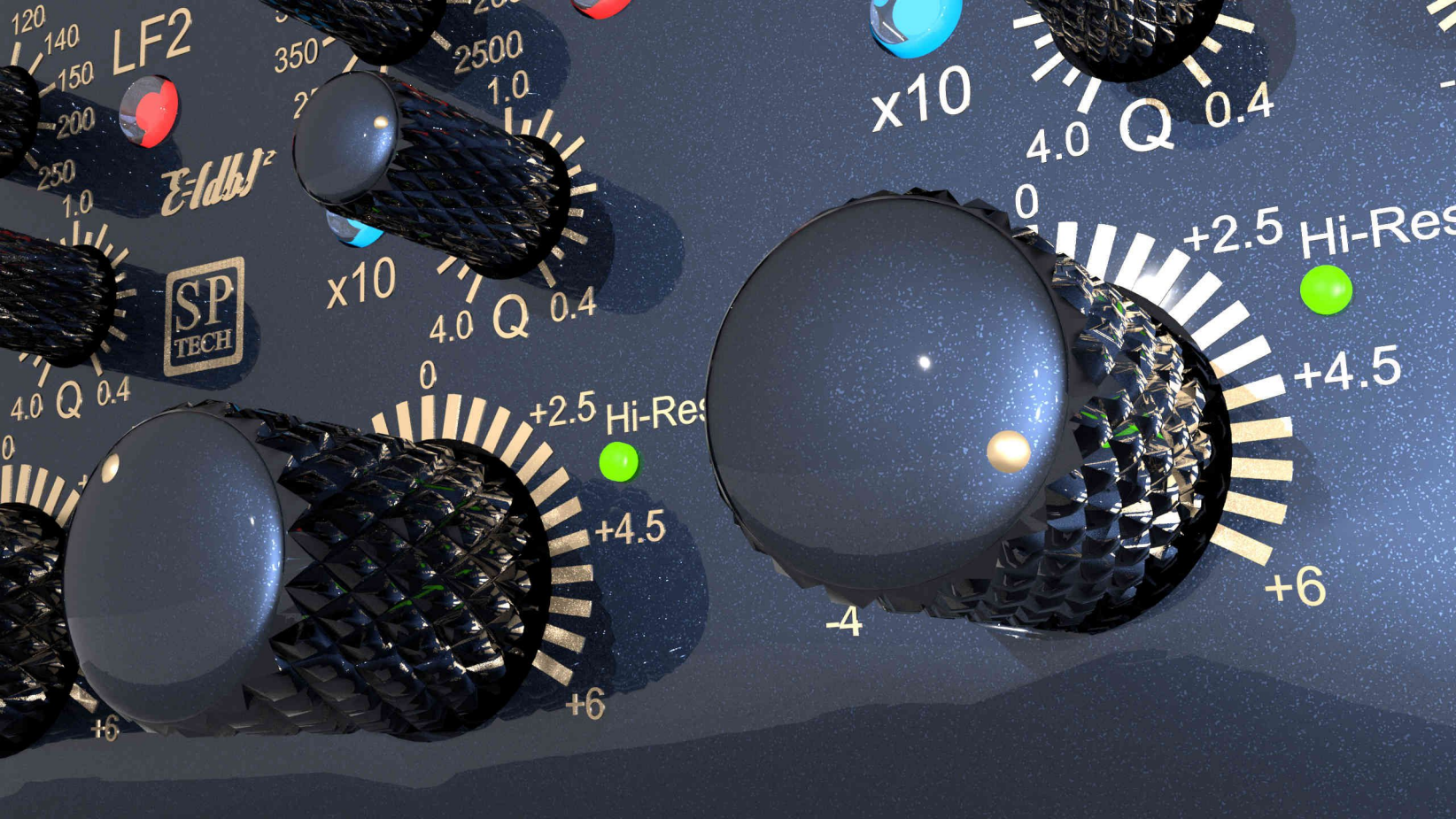

120
140
150
LF2
200
250
1.0
4.0
Q
0.4
0
+2.5
Hi-Res
+4.5
+6
SP
TECH
350
2500
1.0
x10
4.0
Q
0.4
x10
4.0
Q
0.4
0
+2.5
Hi-Res
+4.5
+6
-4

DiBiQuadro

Bronze²

Mastering EQ

Version 1.0

Thanks for purchasing DiBiQuadro Bronze². Please take your time to read carefully the content of this manual before using the plugin.

Overview

Bronze² is a great sounding mastering EQ plug-in based on Acustica Audio technology which provides sweet, transparent and clean timbral shaping with elegance and musicality. It is the result of meticulous samplings of a highly sought after machine in its all discrete J-FET solid state signal path. Bronze² will shine on pretty much anything, from drums, kick, snare, toms, to acoustic guitars and keys, or any other source requiring punch and clarity.

Each band and preamp has been sampled without any converter / "calibration bias" phase distortion. This allows to overlap the effect of more bands without adding unwanted coloration, reaching a new level of match with hardware for unparalleled results, even compared to hardware itself. This methodology is named SP Tech.

Specifications

"Q" range on all 4 bands	0.4 to 4.0 – "shelving like" curves can be achieved with the lowest/broadest Q settings (0.4) at very low or very high frequencies and low gain values
EQ full range [dB] (continuous)	±18 with 241 steps (0.25dB circa on boost)
	-4/+6 with 241 steps in Hi-Res mode (0.1dB circa on boost)
Low Frequency Bands LF1, LF2 [Hz] (stepped)	25, 35, 55, 80, 100, 120, 140, 150, 200, 250, x10 switch selectable
High Frequency Bands HF1, HF2 [Hz] (stepped)	250, 350, 550, 800, 1000, 1200, 1400, 1500, 2000, 2500, x10 switch selectable
Preamplifier (switch selectable)	10 harmonics J-FET Topology character
In Trim range [dB]	±24
Out range [dB]	±24
Sample rates	Bronze^2 is designed to provide **the same sound quality** at each of the following sample rates: 44.1KHz, 48KHz, 88.2KHz, 96KHz
SP Tech	Implemented

User Interface

In Trim: when Pre-In is activated it adjusts the amount of harmonic distortion without affecting overall output level; hardware best match is achieved by keeping In Trim set to zero; Bronze² is meant to be extremely clean: avoid settings that may cause unwanted harmonic distortion or digital clipping.

⚠ **CAUTION: be careful when setting In Trim higher than zero and driving this plugin with very hot sources: this may cause unpleasant loud digital clipping!**

Out: it adjusts the overall output of the plugin.

Pre-In: it activates the preamplifier section, introducing harmonic content to the sound.

LF1, LF2, HF1, HF2: they activate respectively Low Frequency Band 1, Low Frequency Band 2, High Frequency Band 1, High Frequency Band 2.

x10: it multiplies the selected frequency by 10.

Q: it tunes the bell shape from narrow (4.0) to wide (0.4).

Gain: EQ boost/cut; "mouse scroll wheel" to select one of the 241 steps (0.25 dB circa each, 0.1dB in Hi-Res mode); SHIFT + "mouse scroll wheel" for ultra-precise (<0.25 dB, <0.1 dB in Hi-Res mode) adjustments.

Hi-Res: it increases the resolution of the Gain knob by reducing the Gain range from ±18 dB to -4/+6; each band can store its own Hi-Res setting (enabled/disabled); Hi-Res mode is selectable by clicking the Hi-Res LED or any of the numbers on the Gain knob step markers.

To reset knobs to default position use **CTRL** + **"mouse left click"**. Use **"mouse scroll wheel"** for precise tuning and **SHIFT** + **"mouse scroll wheel"** for ultra-precise tuning on Gain, Q, In Trim and Out knobs.

New Revisions - Backward Compatibility

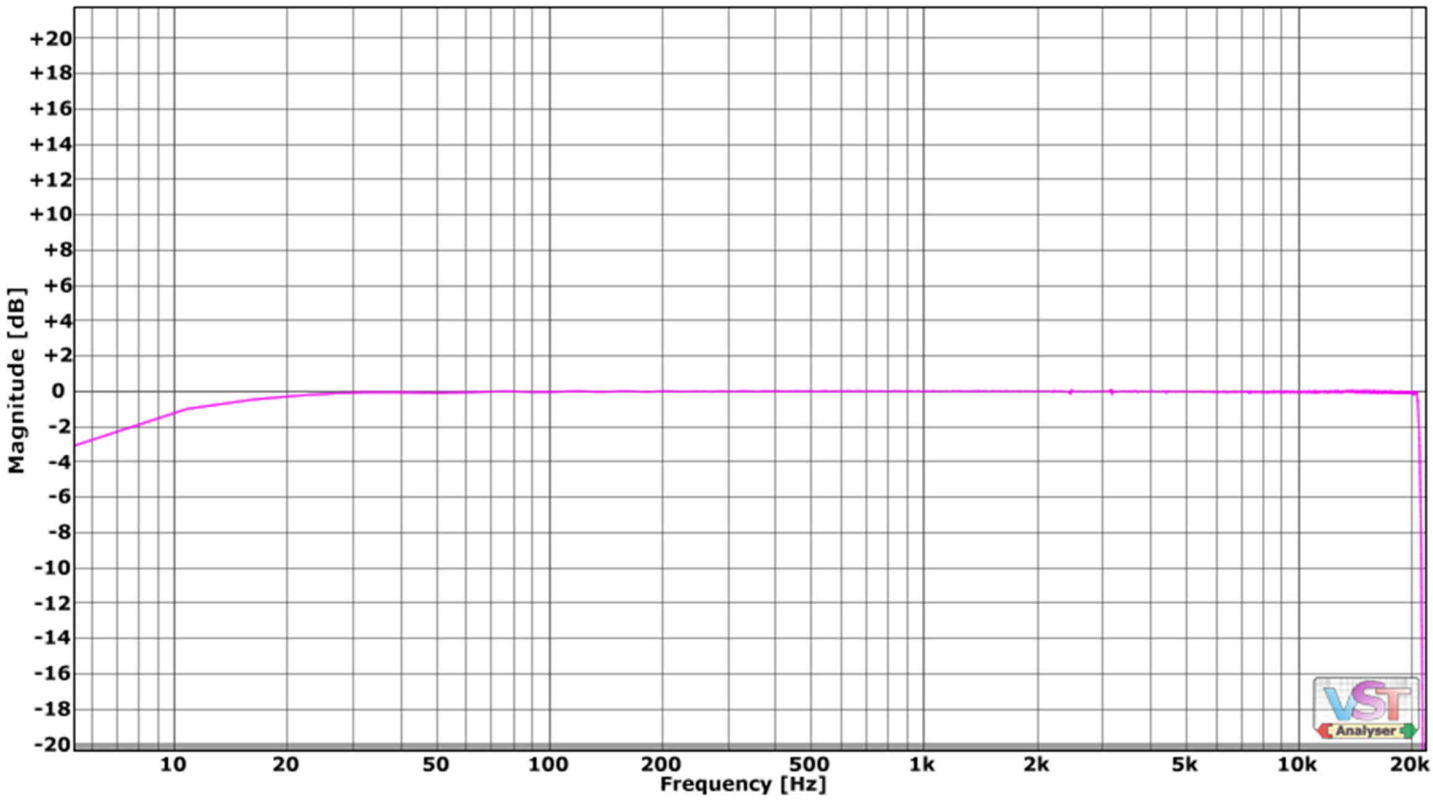
Since Bronze² is a new plugin, it can co-exist with Bronze in the same DAW.

We cannot assure compatibility between new revisions and previous ones. Even presets are specific for a particular revision and not applicable to another. Anyway, before doing any upgrade we recommend making a copy of the settings by using Presets functionality on Nebula or a visual copy (e.g. Print Screen and save image file). In case of issues after upgrade it is possible to downgrade by selecting the desired revision on Aquarius and eventually restore old presets.

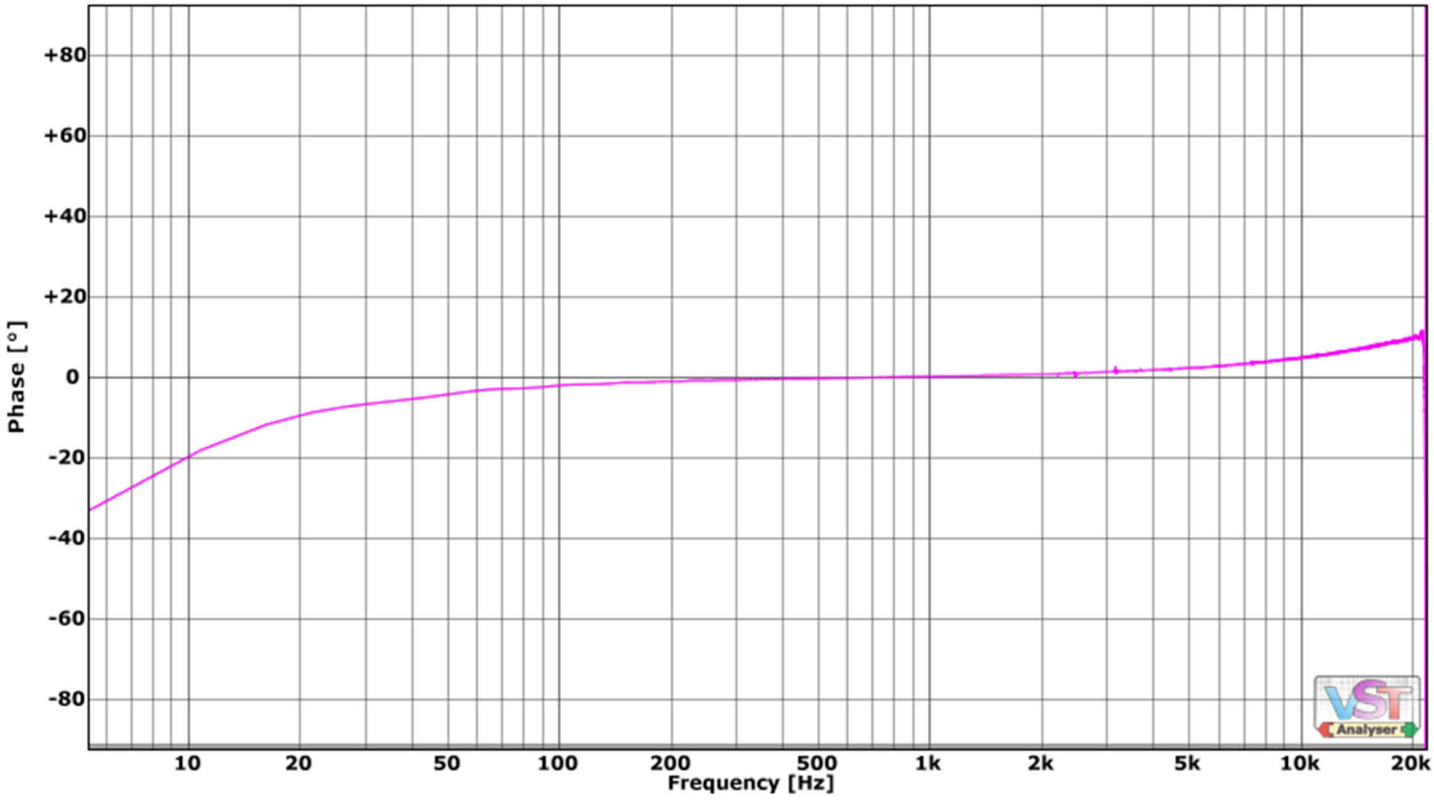
Bronze and Bronze² show the same frequency response in the audible spectrum and the same harmonic distortion. Differences regard CPU performances, disk and RAM usage and minor graphic enhancements.

Frequency Responses @ 44.1 KHz

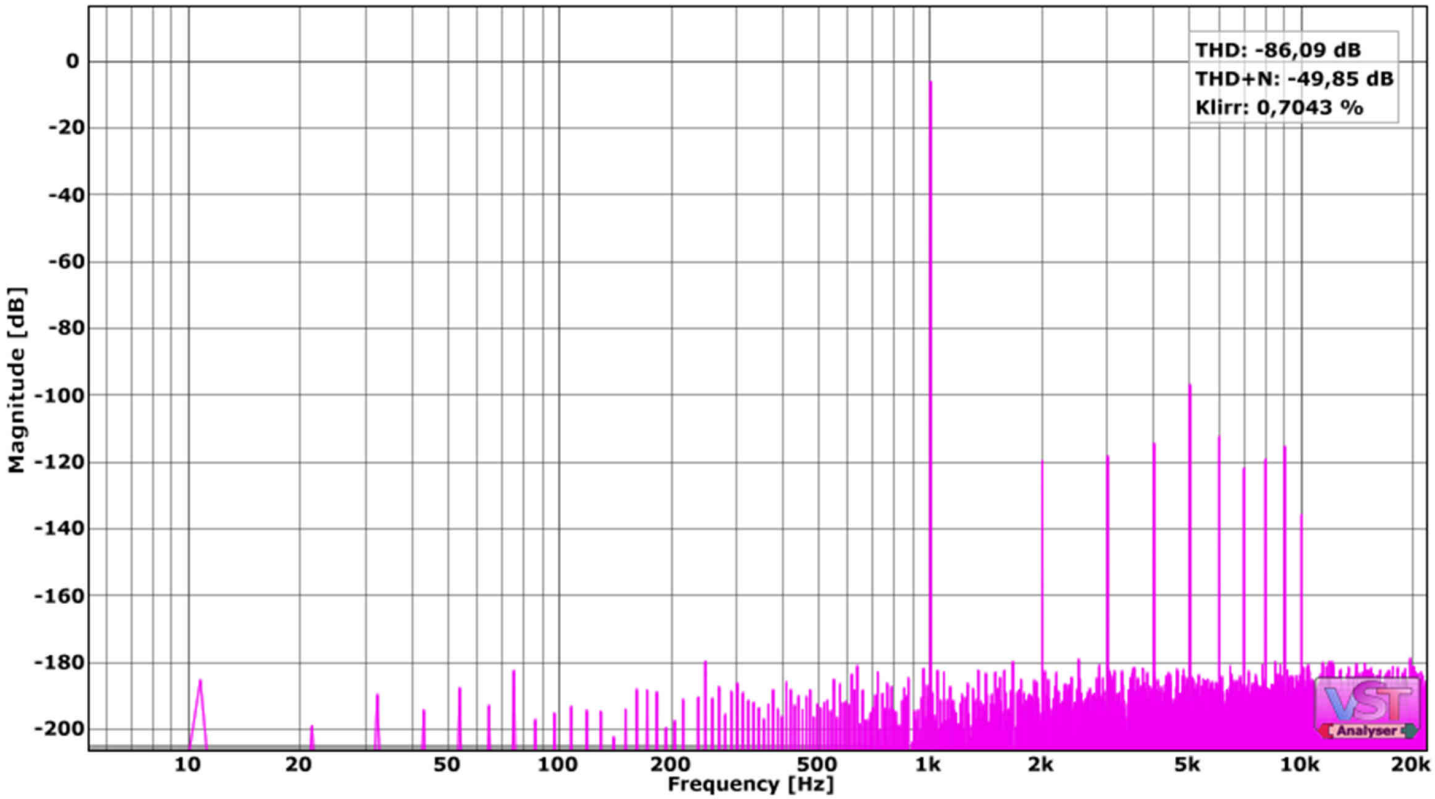
Pre-In – Magnitude



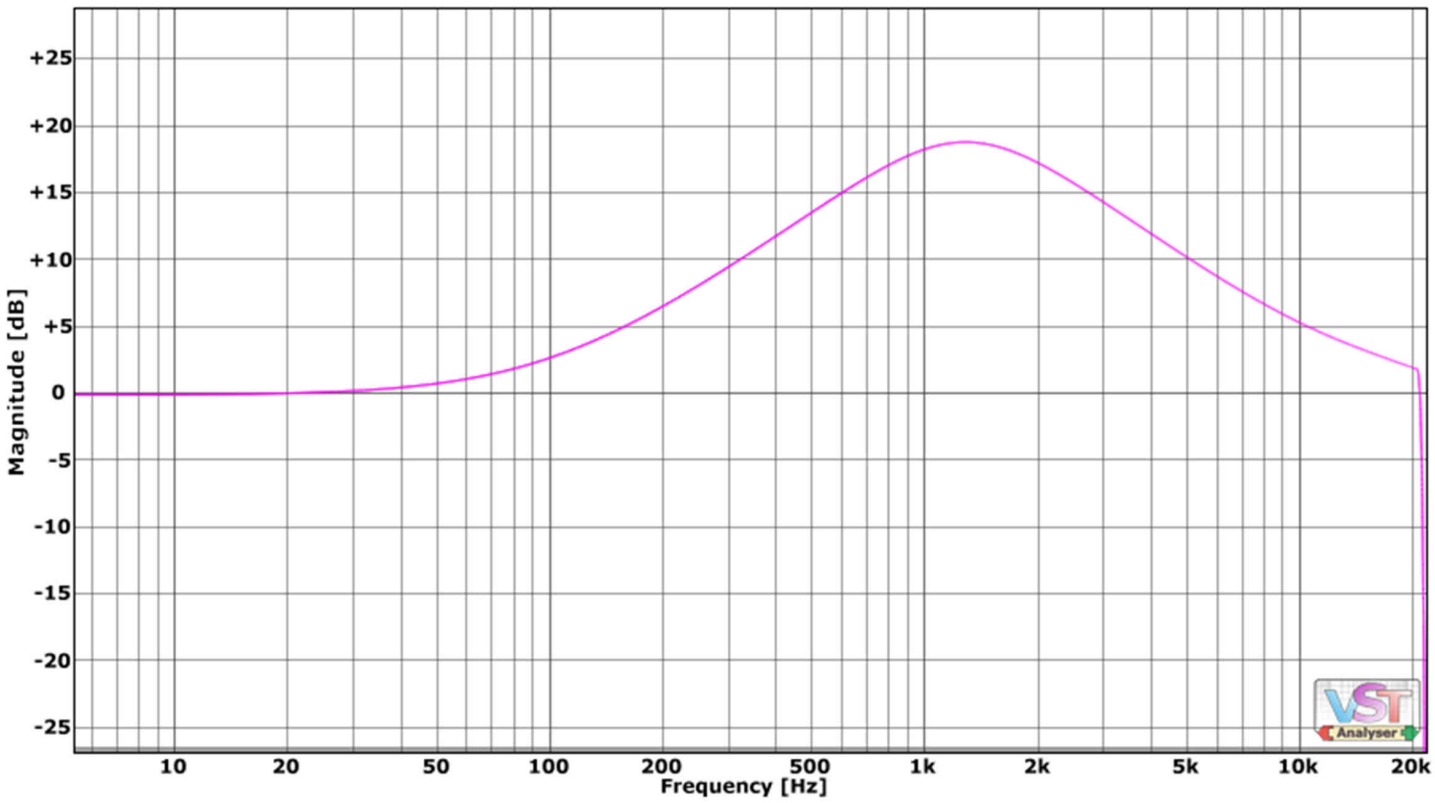
Pre-In – Phase



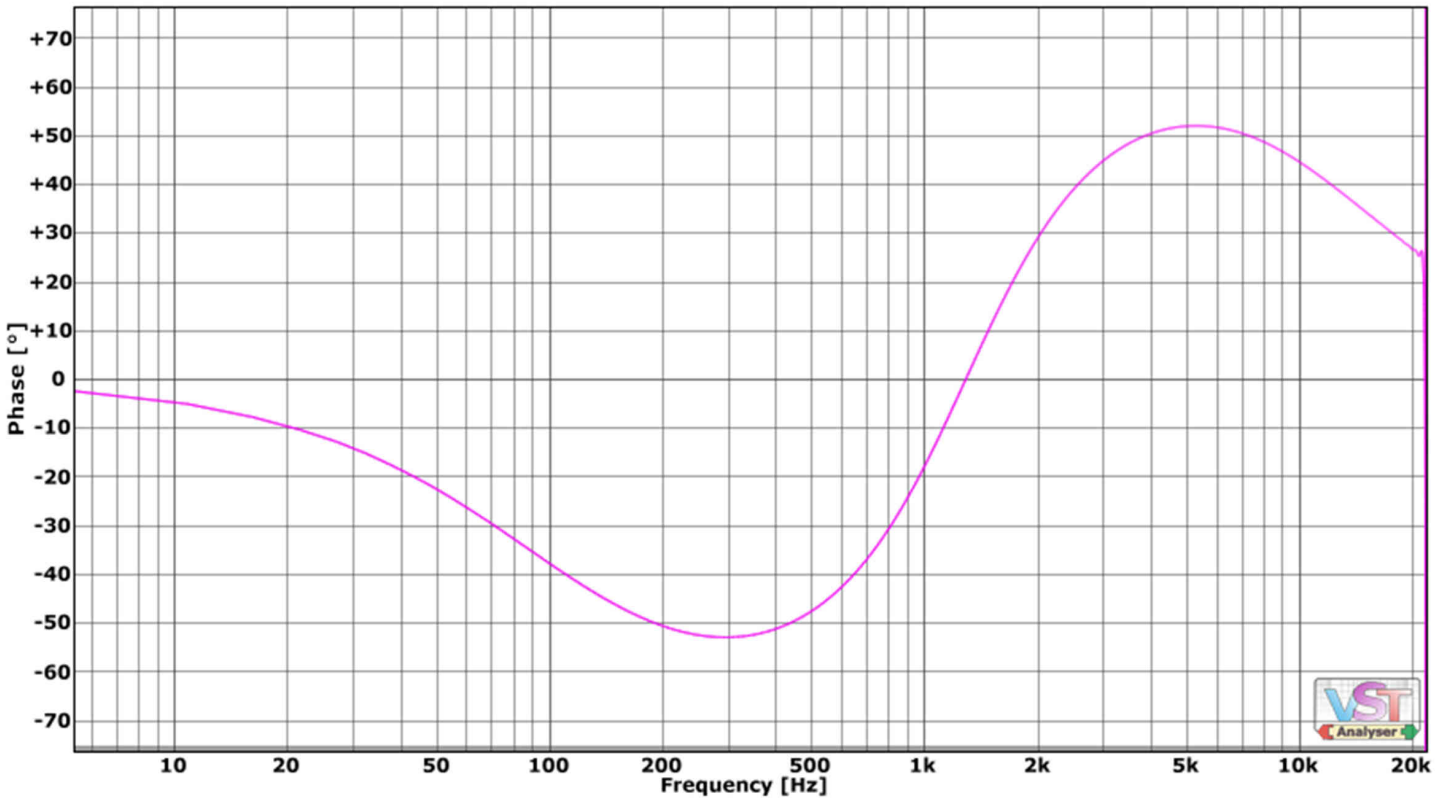
Pre-In – Harmonic Distortion



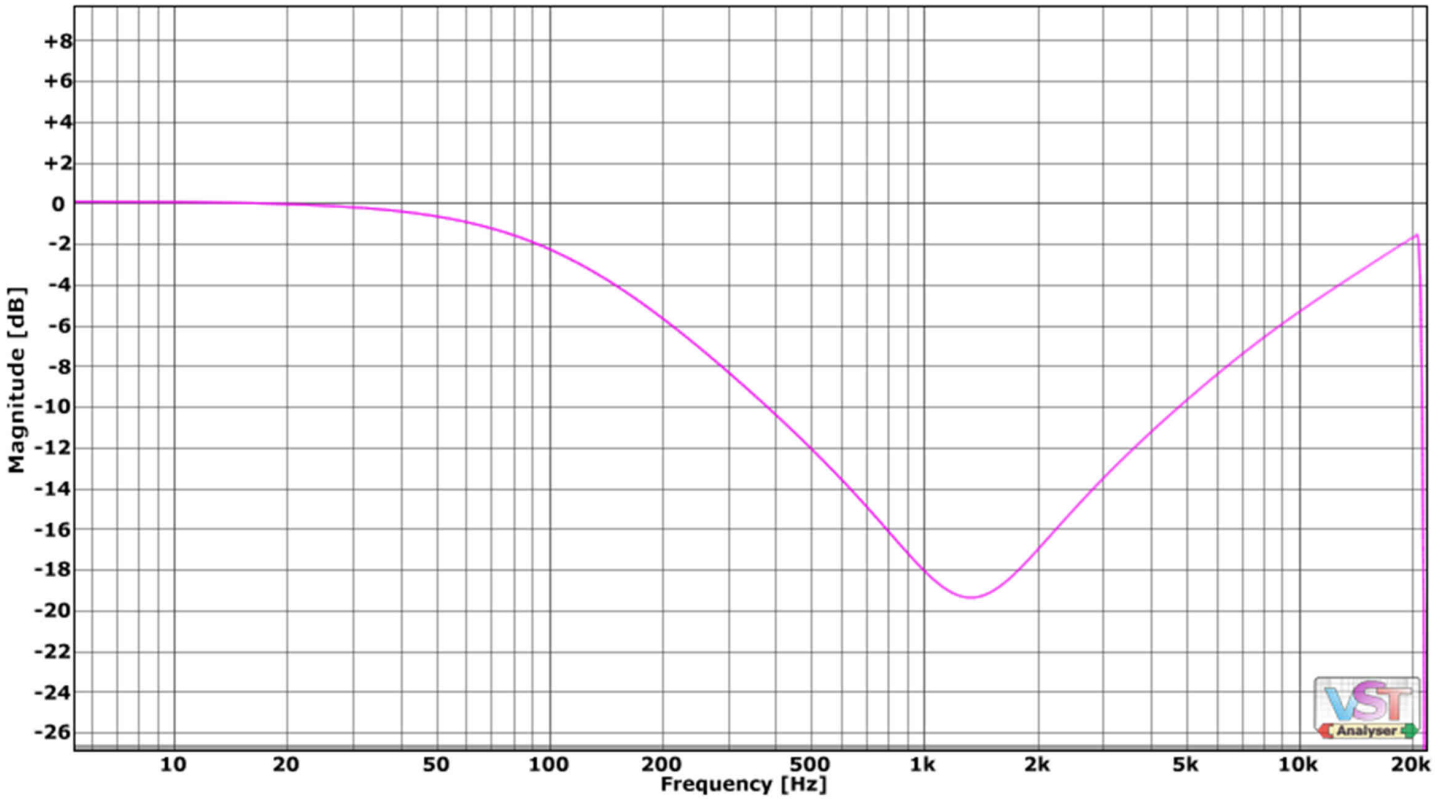
LF +18dB Q0.4 @1200Hz – Magnitude



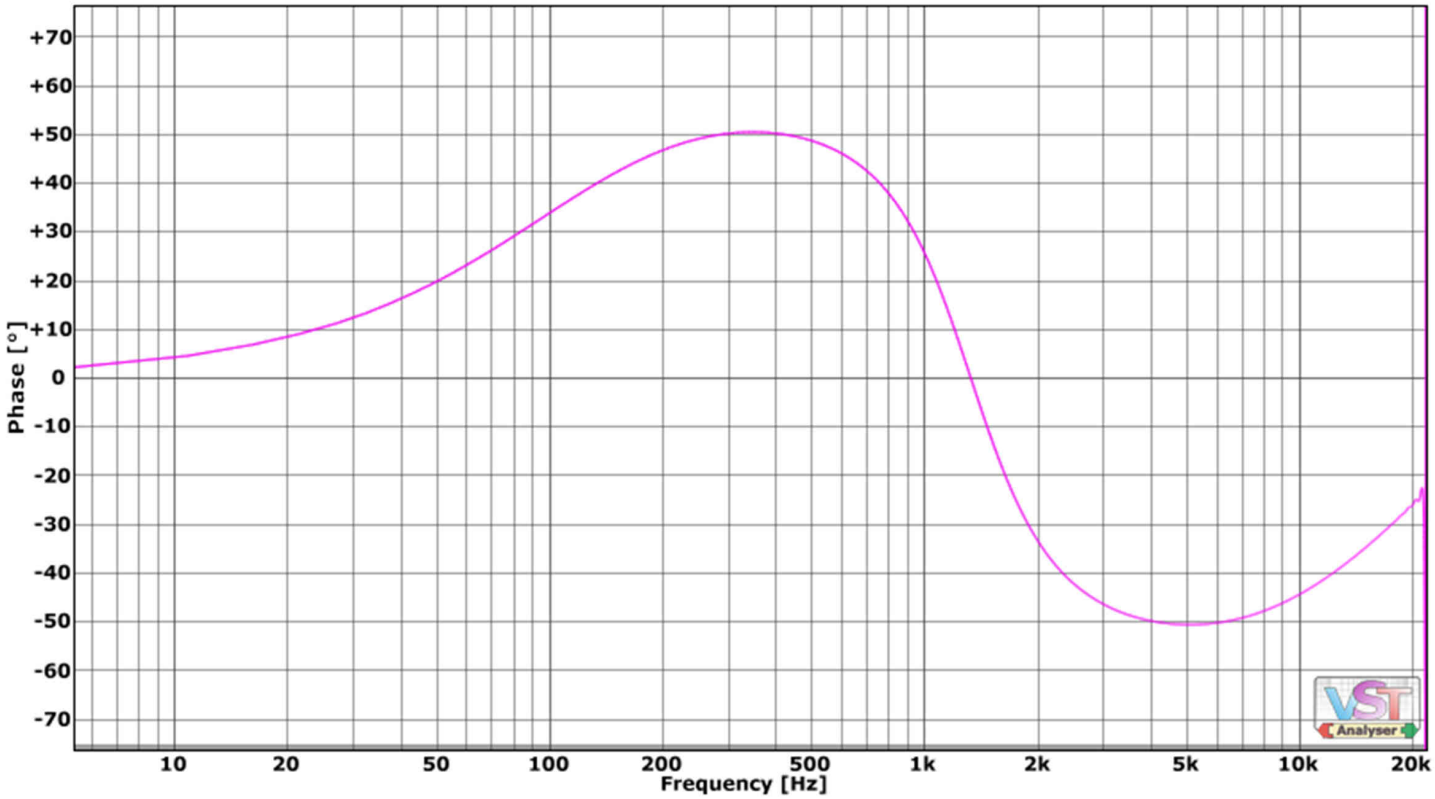
LF +18dB Q0.4 @1200Hz – Phase



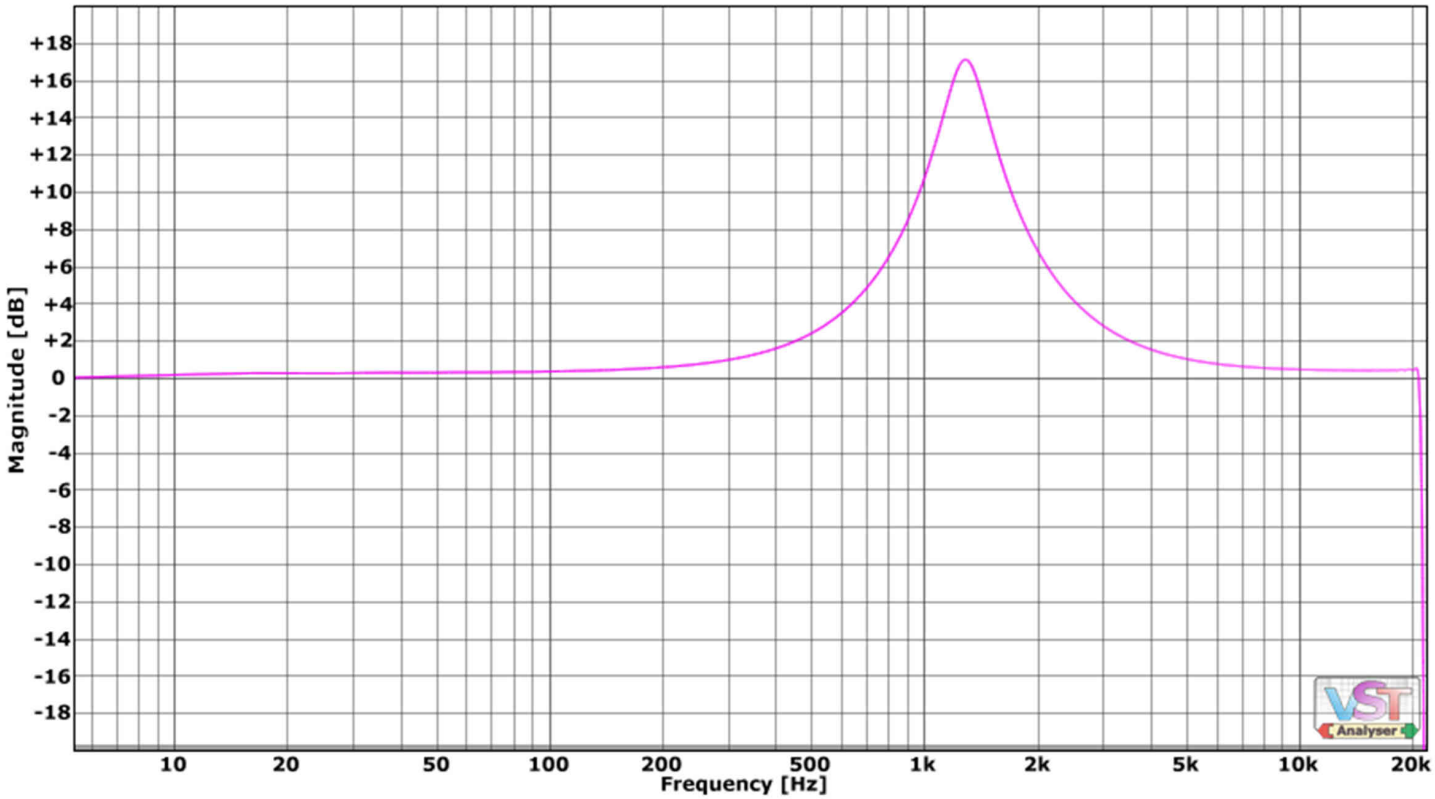
LF -18dB Q0.4 @1200Hz – Magnitude



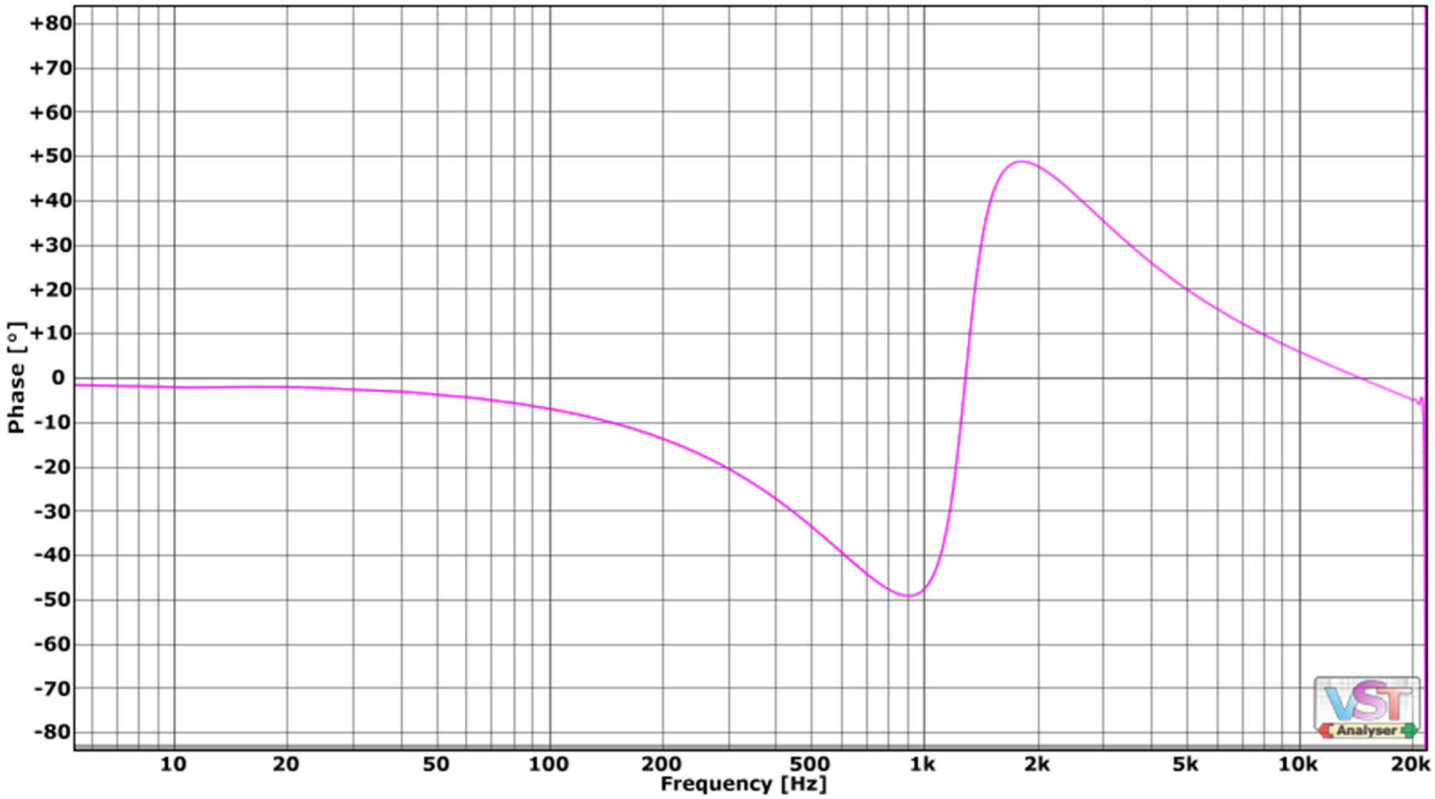
LF -18dB Q0.4 @1200Hz – Phase



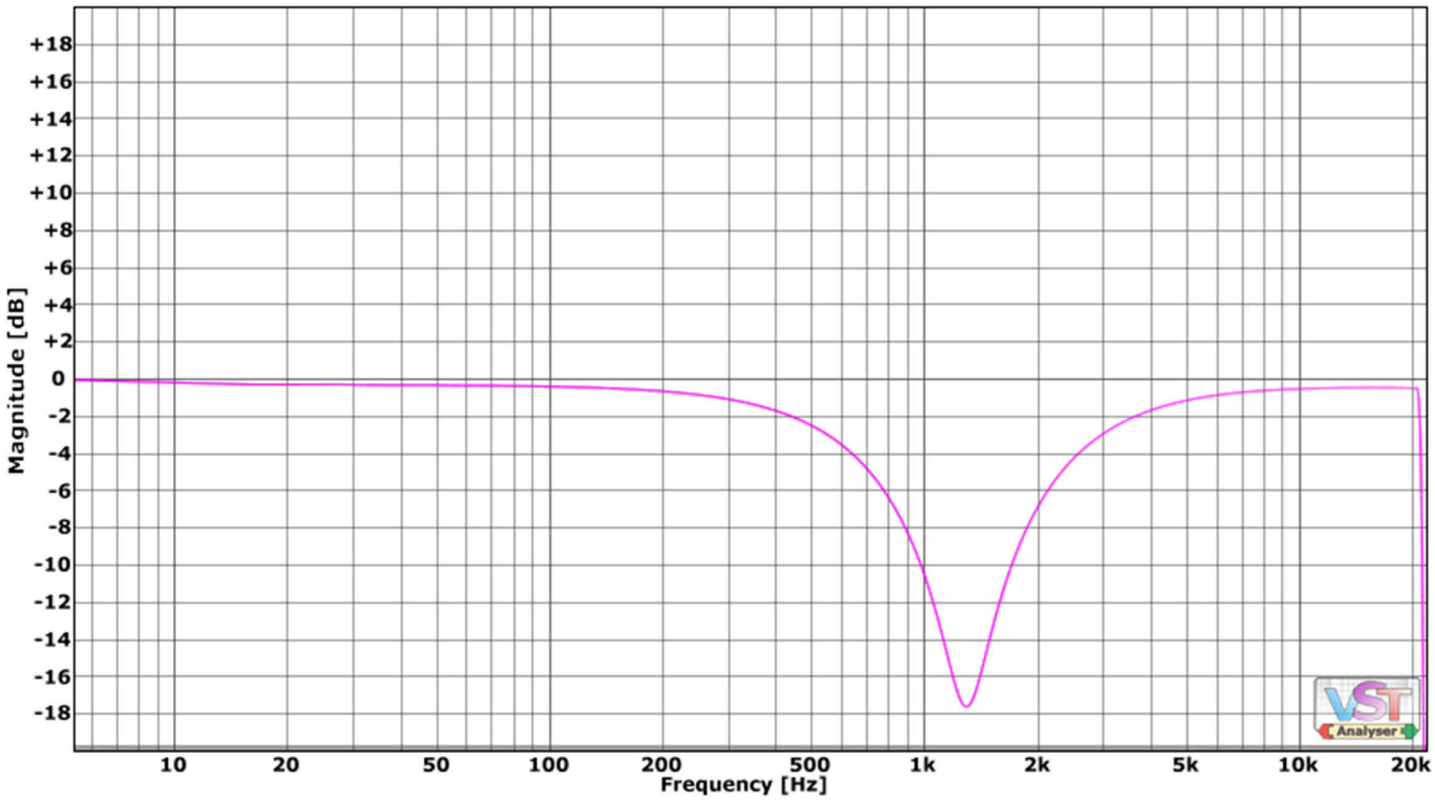
LF +18dB Q4.0 @1200Hz – Magnitude



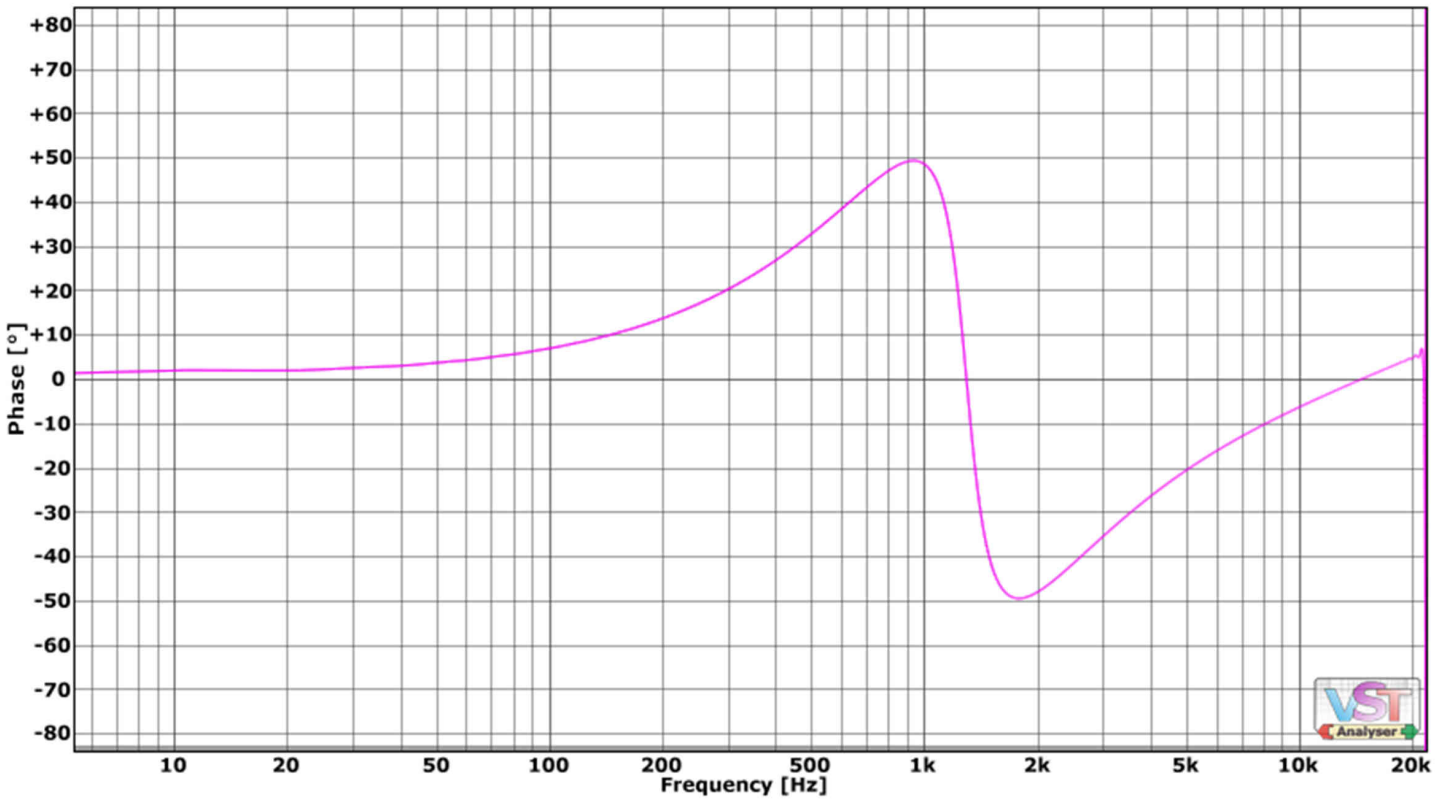
LF +18dB Q4.0 @1200Hz – Phase



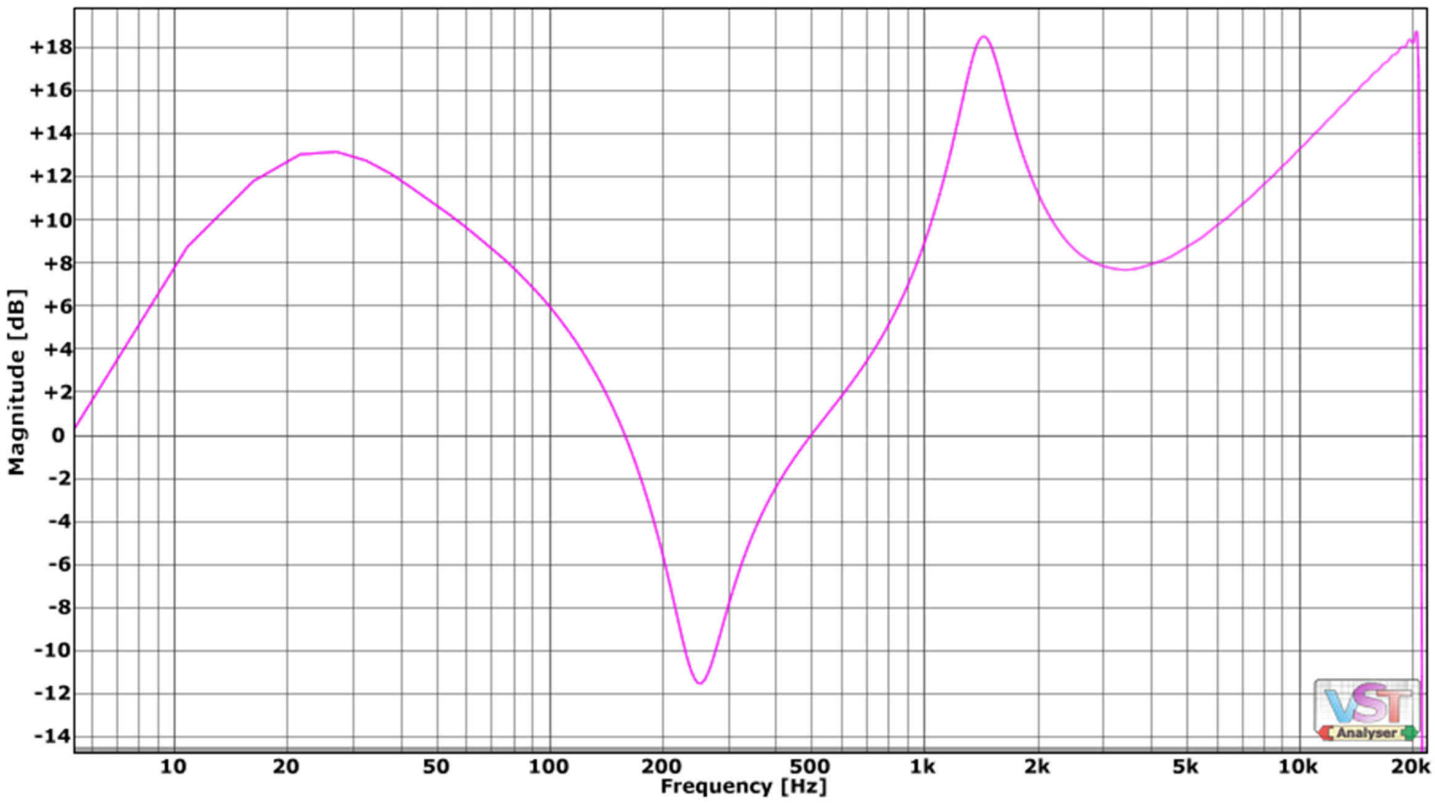
LF -18dB Q4.0 @1200Hz – Magnitude



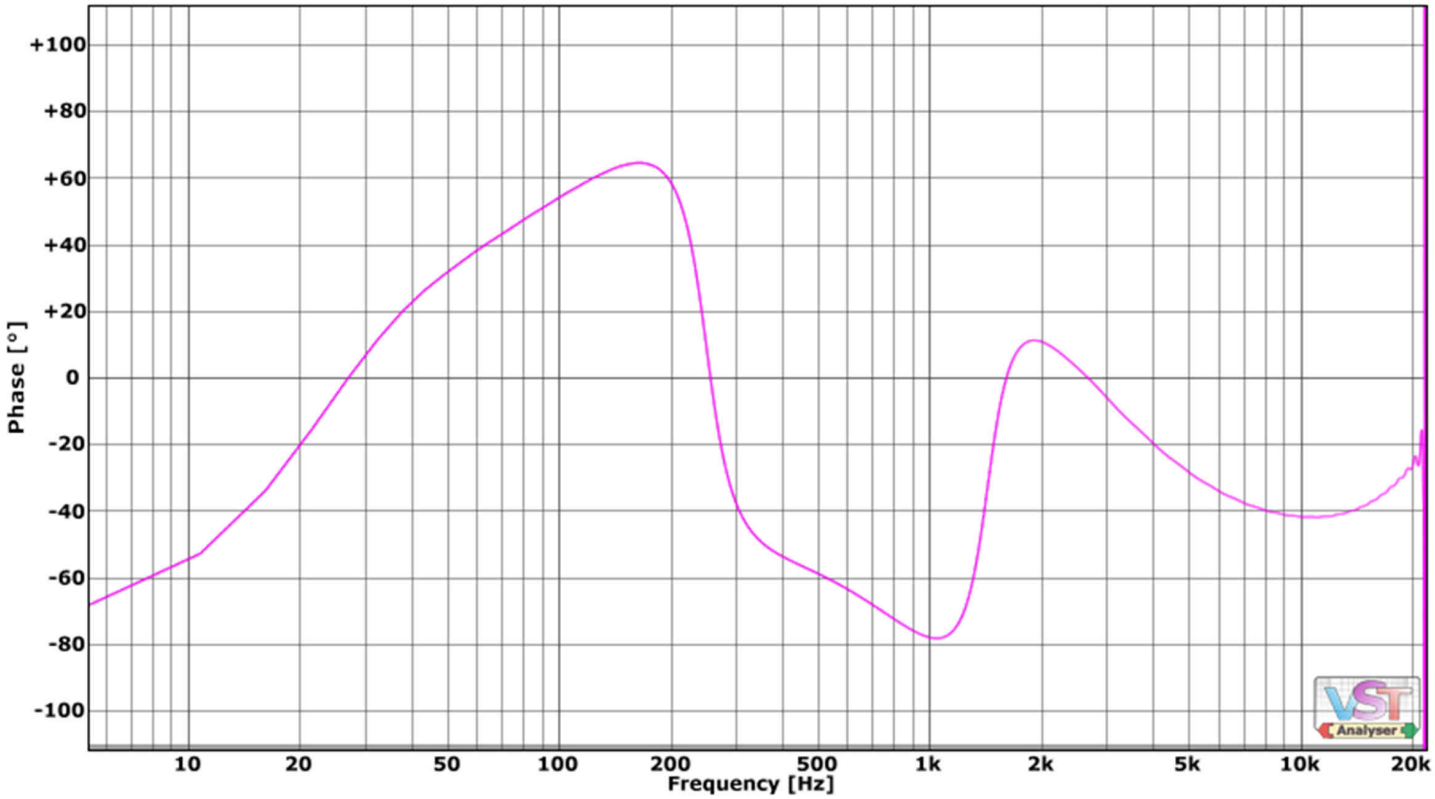
LF -18dB Q4.0 @1200Hz – Phase



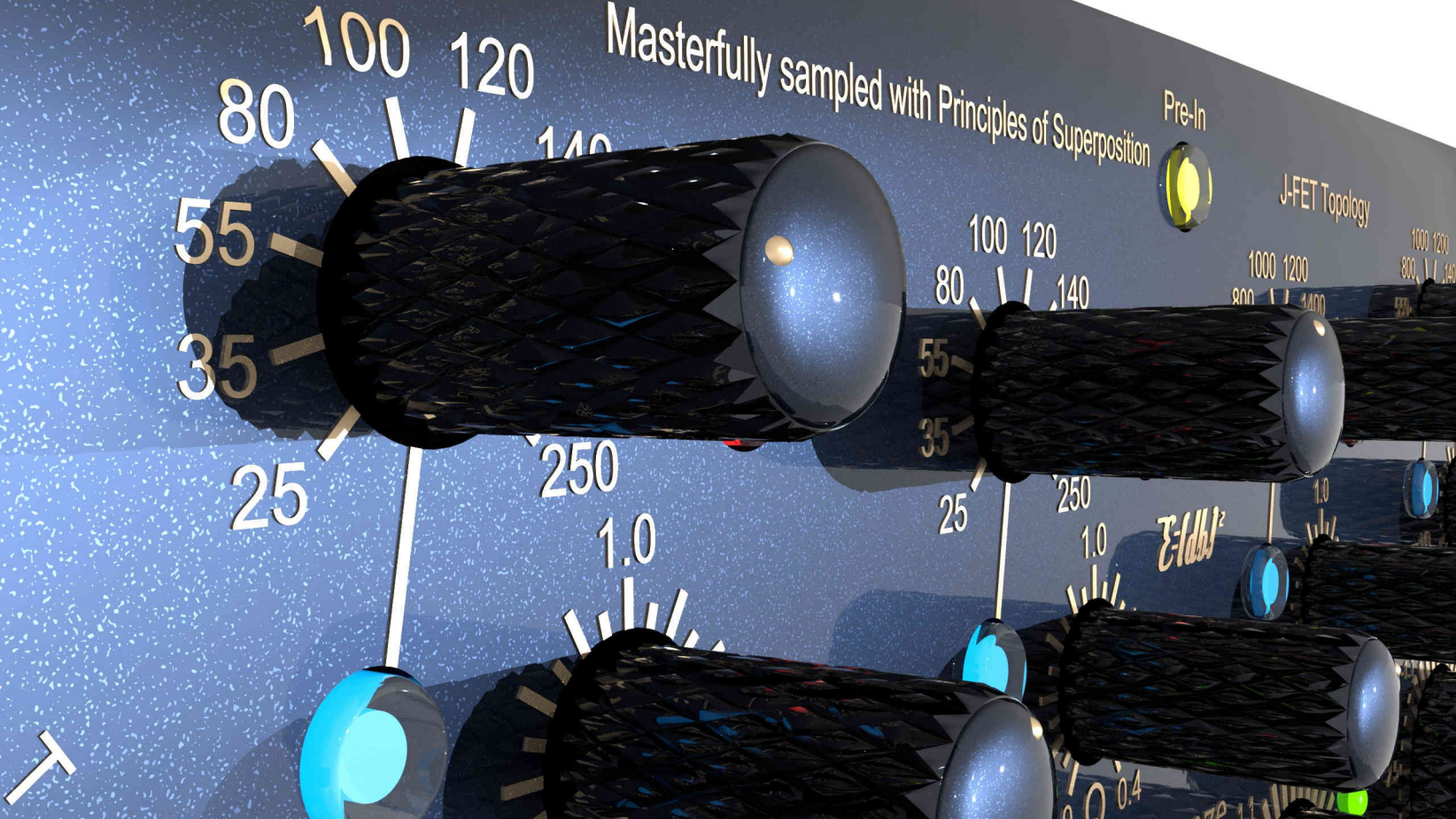
All 4 bands example – Magnitude



All 4 bands example – Phase



$$\mathcal{E} = [db]^2$$


Masterfully sampled with Principles of Superposition
Pre-In
J-FET Topology
100
120
80
140
55
35
25
250
1.0
100
120
80
140
55
35
25
250
1.0
1000
1200
800
1400
1.0
0.4