IVORY3

DREAMWARE MASTERING SUITE

IVORY 🦣 3

DREAMWARE MASTERING SUITE BY ACUSTICA AUDIO

Analog Hardware Virtualization

A few years ago Acustica Audio coined the term "Analog Emulation", to indicate an innovative process whereby a piece of software tries to mimic the acoustic behavior of an hardware device. This process was able to get really close to the magnificence and the charm of the analog sound, but actually it couldn't reach exactly a precise 100% match. Over time the term has been abused many times by other developers, often with the presumption of reaching "the" perfect software simulation.

Then we wanted to change the game: today we use the term "Dreamware" to describe a software implementation based on different analog "emulations", melded simultaneously and liberally into a dream (Dream) software (ware) that conjures something that can't exist both in the analog domain and in the digital recreations of other manufacturers.

Acustica Audio is a leading company specialized in analog hardware virtualization.

Since the birth of Nebula in the summer of 2005, an active collaboration has started between forward thinking developers, beta testers, audio engineers and equipment samplers from around the world.

The research and development have progressed through many stages and employ innovative processes and technologies as of yet unheard of in other products or devices.

The company's goal is to provide the most authentic reproduction of sampled vintage gear and other high-end hardware devices, using the revolutionary technology Vectorial Volterra Kernels Technology (V.V.K.T.) without the negative artifacts created by the current convolution technology.

After many years of fruitful labor, this creative forward thinking group has evolved into a team of experts in knowing what it takes to serve the "best of both worlds" (digital & analog).

Acustica… Audio Renaissance

References

Acustica Audio is a trademark of Acusticaudio s.r.l.
Via Tortini, 9
26900 - Lodi (LO) - Italy
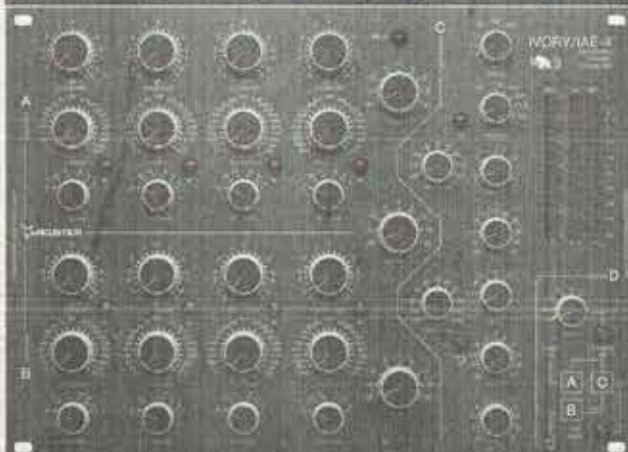www.acustica-audio.com

IVORY3_IAE-2
Mastering Equalizer

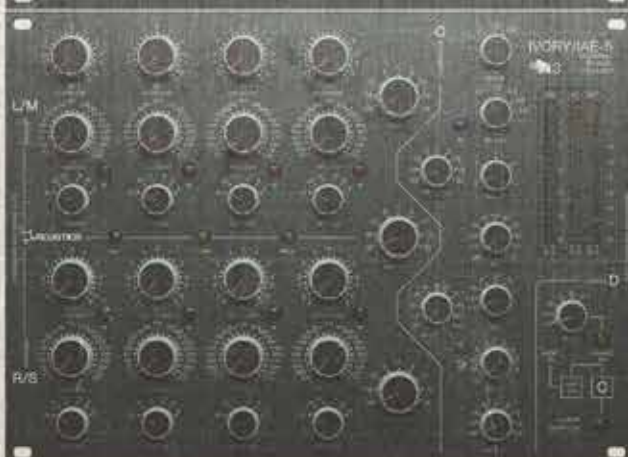**IVORY3_IAE-3**
Mastering Stereo Equalizer

IVORY3_MAC-2
Mastering Compressor

IVORY3_MAC-3
Mastering Multiband Compressor

IVORY3_IAE-4
Mastering Dynamic Equalizer

IVORY3_IAE-5
Mastering Dynamic Stereo Equalizer

INDEX

Contents

1. System Requirements and Package Contents

1.1. Introduction

Thank you for choosing Acustica Audio IVORY3 plug-in.

Ivory is one of a growing number of the Acqua Effect plug-ins product line. Acustica Audio has been working in high-quality analog hardware devices software modeling for over seven years. The audio rendering engine, Acqua, embodies the state of the art of sample-based products and has set a new quality standard in the professional audio plug-in market.
Acustica Audio, in a move that is bold even for a cutting-edge company like them, has sampled something great and is now bringing it to you in the form of a ground-breaking and great sounding Acqua plug-in.
Compared to more traditional compressors, there are very few multiband compressors available, both hardware and software. Of the software plug-ins available, none are based on sampling, and none come close to the sound of Ivory.
IVORY3 is based on the exciting upgraded technology that uses a new extremely fast engine.

During the modelling process we used the best converters and cables in existence, we measured the mastering unit in excellent conditions, and employed skilled experts in the sampling process using our self-developed sampling application.
Now you have one of the best high-quality professional audio software in your audio workstation. We spend countless hours developing these no-compromise plug-ins to give you only the best sound and the feel that is as close to the real hardware as could be imagined. We are confident that this plug-in will help you make more professional mixes.

1.2. Sampling Process

The sampling process has been performed by Acustica.
The unit was sampled with mastering quality converters, using a method which takes considerably more time than the normal sampling standard. This method is of benefit to the entire audio spectrum. Two sample rates are provided with Ivory3; the native sample frequency was 96kHz. The 44.1kHz frequency was derived from the native one by a downsampling and upsampling process. This method avoids any negative sample rate conversion (SRC) artifacts when matching project different sample rates and also helps in project loading times.

1.3. System Requirements

	Windows		OSX	
	Minimum	Recommended	Minimum	Recommended
Operating System	Windows 7	Windows 10	OSX 10.8	OSX 10.11
CPU	Dual Core	Latest multicore CPU (1)	Dual Core	Latest multicore CPU (1)
RAM	4 GB	16 GB to 128 GB	4 GB	16 GB to 128 GB
HDD/SDD	1000 MB	1000 MB	1000 MB	1000 MB
Screen Resolution	1024x768 (XGA)	1920x1080 (HDTV) (2)	1024x768 (XGA)	1920x1080 (HDTV) (2)
Audio Host	VST2 / AAX 32 bits	VST2 / AAX 64 bits	VST2 / AAX 32 bits	VST2 / AAX 64 bits

(1) OS X 10.9 and OS X compatibility not guaranteed.
(2) Intel Xeon and i7 Haswell or similar newer recommended.
(3) 500 MB for standard and LT installation.
(4) 1 GB for standard and LT installation plus mastering pack.
(5) 3840x2160 UHDTV is also supported.

1.3. Package Contents

The Ivory3 series is made up of 6 separate Acqua plug-ins with gorgeous graphical user interfaces. This bundle contains:

- IVORY3
- IVORY3 STEREO
- IVORY3 DYNEQ
- IVORY3 DYNEQ STEREO
- IVORY3 COMP 1B
- IVORY3 COMP 3B

 * OS X and Windows installers include both latest versions VSTGUI UI frameworks to ensure greater compatibility, VSTGUI3 UI framework is called legacy mode in the installers.
 * OS X installers include all architectures and plug-in formats in a one single installer.
 * Windows installers are divided by architecture in 32 and 64 bits.

COREX

The IVORY3 suite is based on the brand new CoreX engine.CoreX is the latest evolution of the groundbreaking multithreading technology by Acusticaudio.It is a highly efficient optimization of Core9, introducing new essential features which allow to further optimize the performance of Acqua plug-ins.

Features currently supported in Core X:

1. Internal saturation of the plug-in no longer exceeds +3 dB;
2. New hard-clipping algorithm;
3. Implementation of a "Multi-input System";
4. Brand new "Blending Algorithm" designed to reduce the number of instances; it allows significant savings in terms of CPU load.

DISCLAIMER

PRE-ORDER (%OFF) - PRE-SALE - SPECIAL PRICE - PROMO

We are using these terms to define the introductory price of the product. It's a Public Beta Preview. In other words, we provide the customers with a COMMERCIAL VERSION/ TRIAL VERSION that could be improved and bug fixed within this period. If you want to be sure that the release is totally safe, you must wait for the end of the pre-order period.

PERFORMANCE CAUTION

In order to maximize performance and usability of your computer and minimize CPU usage, we suggest you to follow these recommendations.
First of all, keep your buffer size setting as high as possible. There is generally no reason to use low buffer size setting in any situation. Whenever possible, increasing buffer sizes (hence also latency) highly decreases required CPU power.
Use only the strictly necessary sections of the plugin.
CORE X upgrade solves spikes problems and jump volume issues.
We do not take any responsibility for misuse of the product or collateral problems derived from it.

We do not ensure the complete absence of bugs or the perfect operation of the product. Before purchasing, we suggest you to download the Trial version to verify the behavior of the plug-in with your system.Trial products are fully-functional versions of the relative commercial plugin. The trial period lasts 30 days after activation.Normally the pre-order period ends within 30 days from the publication of the product page, but this period may vary at our discretion. This manual includes a description of the product, but no guarantee is given for specific characteristics or successful results.

The design of our products is under continuous development and improvement.

Technical specification are subject to change.

2. Installation

2.1. Introduction

Run OS X (1) or Windows (2) installer depending on your OS. During the installation, use a true administrator account or make your OS understand you have a user account with full administrator privilege.

OS X installer will install 32 and 64-bit files in Acustica and Acustica64 folders respectively for VST format and 32 and 64-bit files in Components folder for AU format. Windows installer is divided into two installers, one for 32-bit builds and a second one for 64-bit builds. AU format is only available in OS X.

IMPORTANT: Windows users, try not to use a write disable folder to install Ivory If your user account does not have the correct privileges, Ivory will not create the serial file, and cannot be authorized.

NOTE: The legacy mode will install VSTGUI3 UI framework. Please install normal mode first (VSTGUI4 UI framework). Only install using legacy mode if normal mode does not work for your system.

(1) OS X paths
VST plug-in folder 32 bits: OSX HD/Library/Audio/Plug-ins/VST/Acustica (fixed path)
VST plug-in folder 64 bits: OSX HD/Library/Audio/Plug-ins/VST/Acustica64 (fixed path)
AU plug-in folder 32 bits: OSX HD/Library/Audio/Plug-ins/Components (fixed path)
AU plug-in folder 64 bits: OSX HD/Library/Audio/Plug-ins/Components (fixed path)

(2) Windows paths
VST plug-in folder 32 bits: C:\VSTPlug-ins\Acustica (not fixed path)
VST plug-in folder 64 bits: C:\VSTPlug-ins\Acustica64 (not fixed path)

2.2. Ivory Installation

2.2.1. OS X Installation

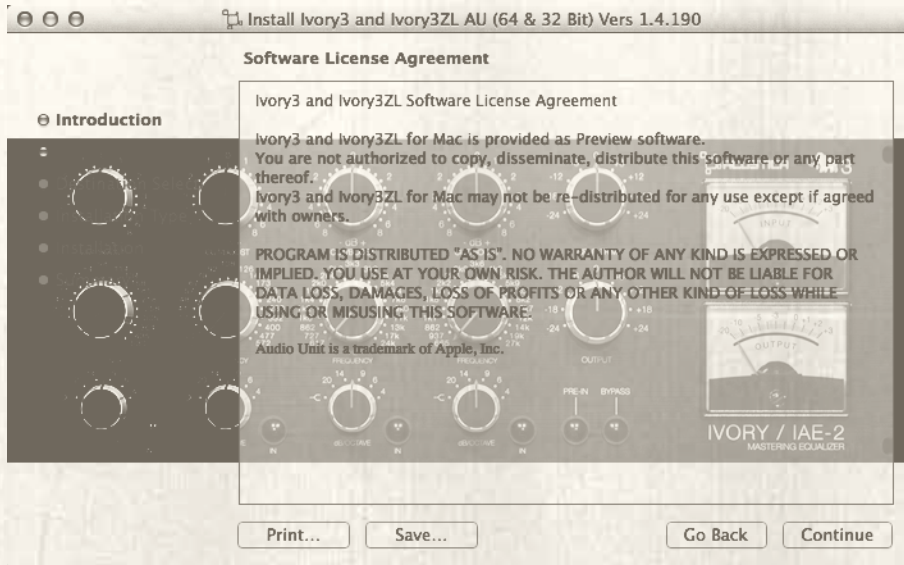**2.2.1.1.** Find the downloaded installer .PKG file in your computer.
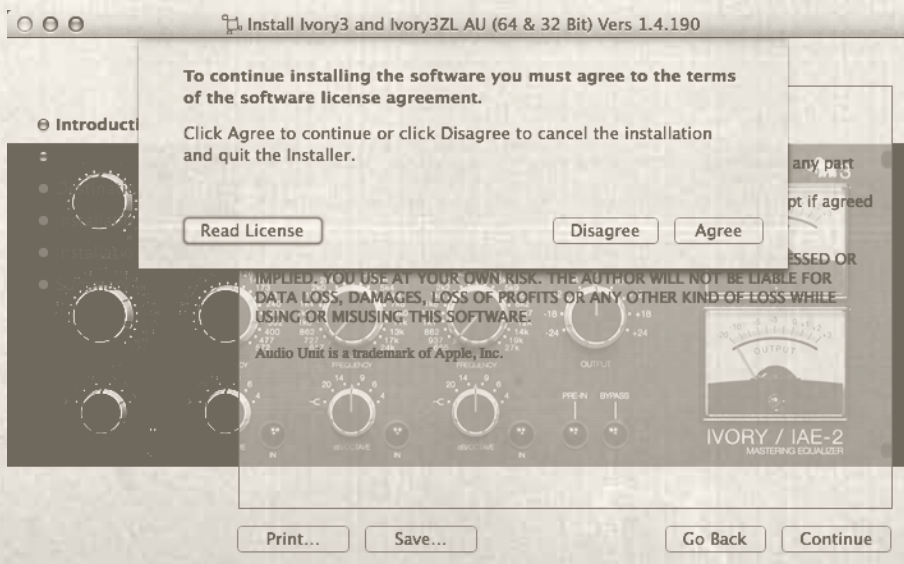

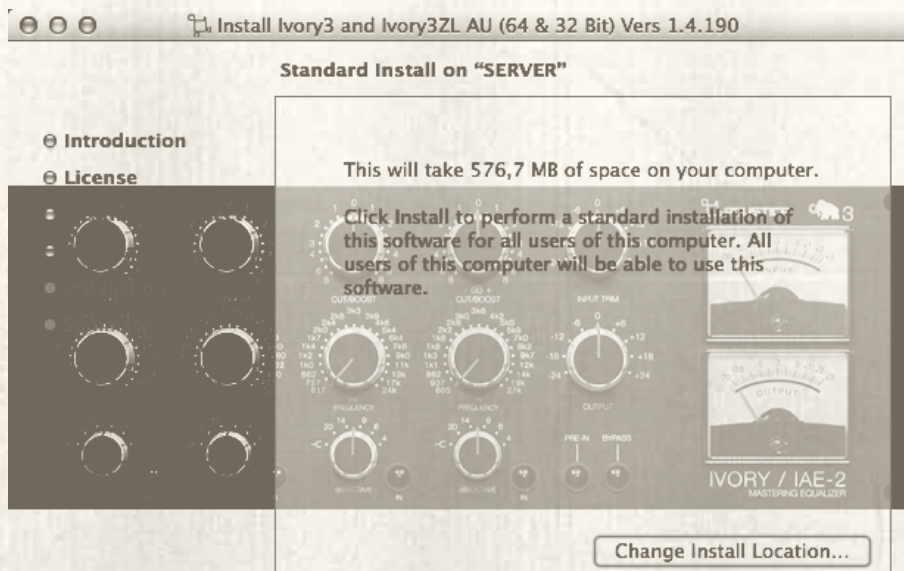**2.2.1.2.** Run the installer and click "Next".

2.2.1.3. Click "Next".

2.2.1.4. Click "Accept".
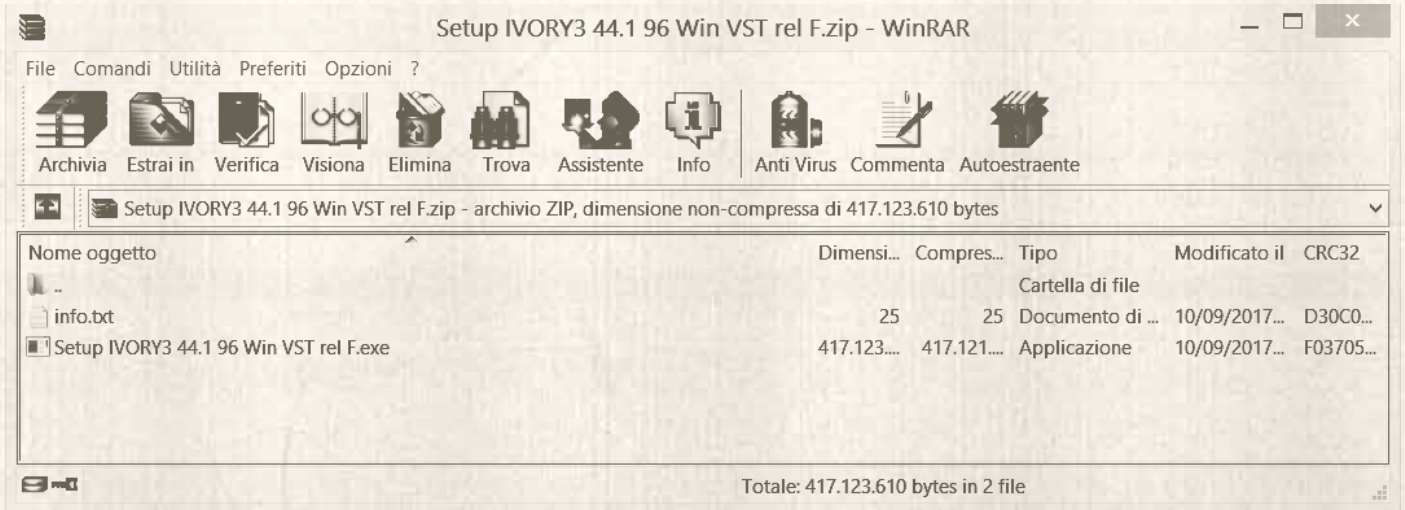
2.2.1.7. Click "Install".

2.2.1.8. Click "Close".

2.2.2. Windows Installation

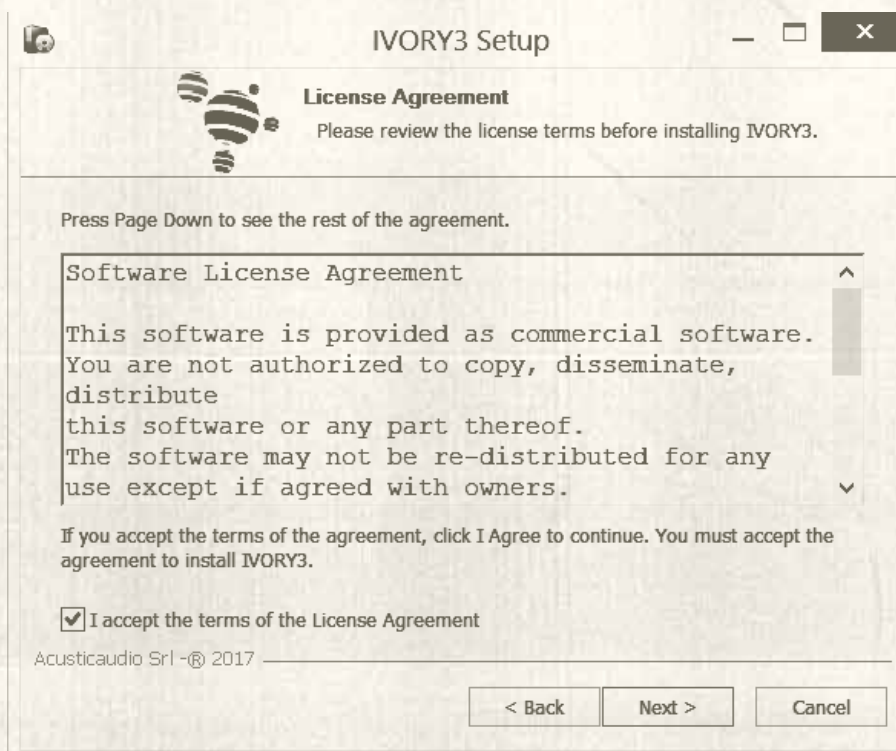**2.2.2.1.** Find the downloaded installer .EXE file in your computer.

2.2.2.2. Run the installer and click "Next".

2.2.2.3. Accept the terms of the license agreement and click "Next".

	IVORY3 Setup	— ☐ ✕

License Agreement
Please review the license terms before installing IVORY3.

Press Page Down to see the rest of the agreement.

Software License Agreement

This software is provided as commercial software.
You are not authorized to copy, disseminate,
distribute
this software or any part thereof.
The software may not be re-distributed for any
use except if agreed with owners.

If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install IVORY3.

☑ I accept the terms of the License Agreement

Acusticaudio Srl -® 2017

< Back   Next >   Cancel

2.2.2.4. Select the version (32/64 bit)

	IVORY3 Setup	— ☐ ✕

Installation mode
Please select the architecture version.

◉ 32bit

◯ 64bit

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< Back   Next >   Cancel

2.2.2.5. Click "Browse" and select the VST plug-in folder.

2.2.2.6. Click "Install".

2.2.2.7. Click "Finish".

IVORY3 Setup

Completing IVORY3 Setup

IVORY3 has been installed on your computer.

Click Finish to close Setup.

< Back   Finish   Cancel

3. Authorization

3.1 Online authorization

AQUARIUS

Aquarius Lite is a brand new application from Acustica Audio. Its purpose is to simplify authorization process for your purchased Acustica products (ACQUA plugins, N4 etc.). With future updates, this application will be covering product overview, download, installation, authorization, updates and more.
Aquarius Lite runs on Windows as 32 bit (64 bit optional) and OSX 64 bit application. You will need a working internet connection in order to run the application.
Off-line mode is not available yet.
Current version of the application offers an overview and (re) authorization of the purchased Acustica products installed on your computer(s).
Important note: Because this application needs access to system protected folders, you should always run it as administrator on Windows (mouse right-click on the icon / Run as administrator). On OSX you'll be prompted to enter your OSX user password for every operation which involves system protected folders.
When started, application will scan your computer for installed products (see "Settings" chapter for additional explanation about scanning process).

Each product strip consists of:
- image
- name and category
- information about used /available licenses
- colored info button
- action button

As image, name and category are pretty much self explanatory, let's talk more about license information and possible actions which can be taken, depending on the situation.
Under the product's name and category you can see the number of used licenses and the total number of purchased / available licenses. Of course, you can not use more licenses than you own, you would then need to buy additional licenses.
Depending of those two numbers and computers involved in the authorization process, info and action buttons can have different colors, labels and functions (they are context sensitive). Let's first look at the small, colored info button, it is the main sign, which shows the status of product in question. By clicking on this button, you can see a hint about its status.
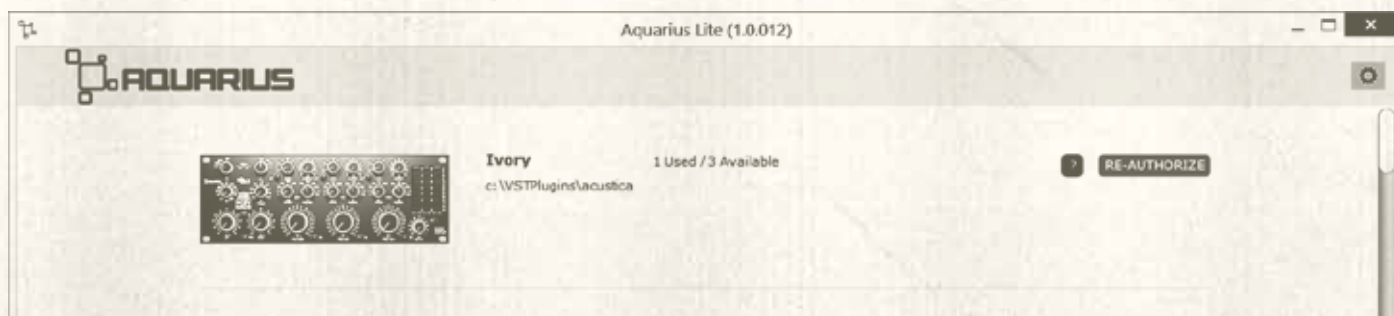
So what the different colors mean?

Everything is OK - your product is properly authorized and you don't need to do anything. Still, the action button on the right (labeled "RE-AUTHORIZE") is available. You should use the action button only if you experience unexpected problems with the product, despite it is properly authorized.

Your existing license slot will be used and used licenses count will NOT increase.
Note, if you've already used all your available licenses, the action button will not be available at all, in such case, please contact technical support.
Authorize product - product hasn't yet been authorized on this computer and the action button on the right is labeled "AUTHORIZE". By clicking on the action button, you will authorize product in question on this particular computer. Note, that new license slot will be used, so used licenses count WILL increase.
There is one exception, though. If product is already marked as authorized on this computer, but license file can not be found (corrupted, deleted), clicking on the action button will fix this situation using existing license slot (used licenses count will NOT increase).
Contact technical support - no further action is possible (action button is not available).
When clicking on the icon at the top right corner of the program, a pop-up menu will show.

Menu contains following options:

- Logout (will disconnect you from the server and the log in window will pop up again)
- Settings (settings window will pop up, see bellow)
- Exit (application will terminate)

You can click on the Aquarius image at the top left to force a re-scan of the products and refresh the product strips.

Settings window contains two main sections. The upper section shows factory defined plugin paths. All standard paths are covered, so if you've installed your plug-ins in standard places, they all will be found at the scan process. Factory list can not be changed. In case you have some or all of your plugins installed in non-standard folders, you can use the bottom section. There you can add additional folders,
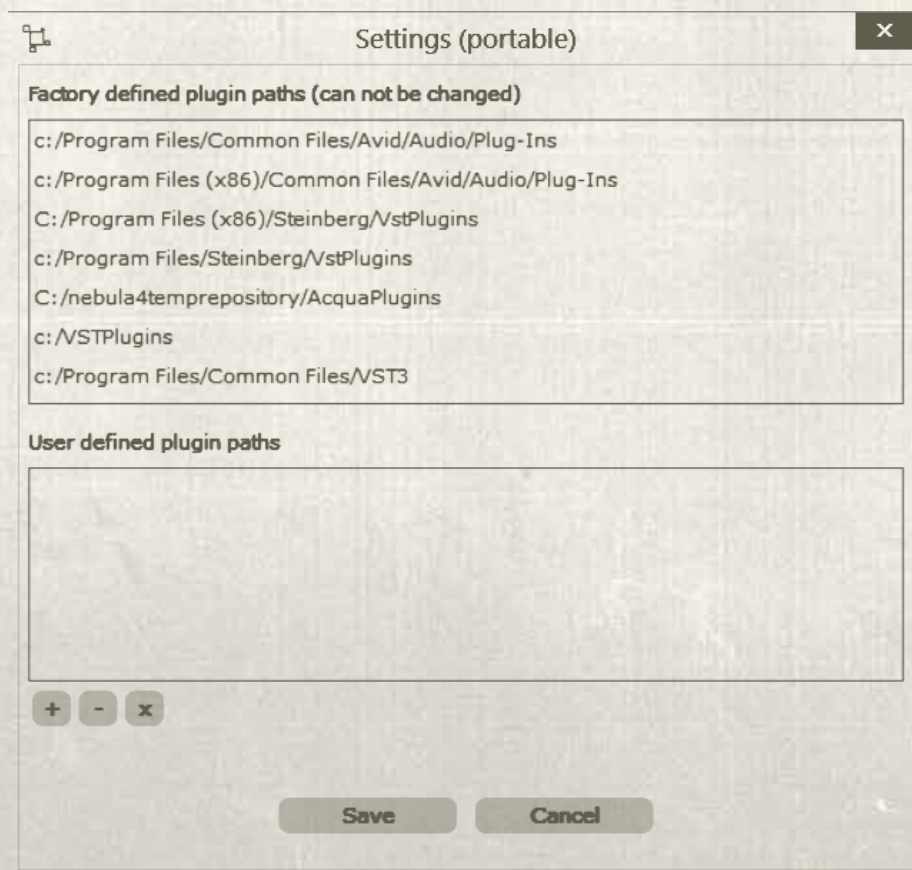which will then be included in product scanning stage as well.
Use "plus" button to add new, "minus" button to delete existing and "x" button to delete ALL existing user defined plugin paths. You must confirm changes with "OK" button, which will close the settings window and re-scan your installed products.

3.2 Offline authorization

3.2.1 Computer identification creation

Run your audio/video host and create a new session (avoid templates). Your Acqua Effect plugin should be scanned, detected, and added into the available list of plugins.
Load your Acqua Effect plug-in and you will see a message asking for authorization.

Settings (portable)   x

Factory defined plugin paths (can not be changed)

```
c:/Program Files/Common Files/Avid/Audio/Plug-Ins
c:/Program Files (x86)/Common Files/Avid/Audio/Plug-Ins
C:/Program Files (x86)/Steinberg/VstPlugins
c:/Program Files/Steinberg/VstPlugins
C:/nebula4temprepository/AcquaPlugins
c:/VSTPlugins
c:/Program Files/Common Files/VST3
```

User defined plugin paths

[+] [-] [x]

Save   Cancel

A computer Identification file (IVORY.SER) will be created into your Acustica/Acustica64 or Components folder depending on which format you are using in your audio/ video host application. If your audio/video host refuses to create an Acqua Effect plug-in Computer Identification file, try it again running it as a true administrator with administrator privilege. If you don't understand what we are talking about, please contact your system administrator for more information.

3.2.2 Computer Identification file path in Windows

VST plug-in folder 32 bits: C:\VSTPlug-ins\Acustica\(not fixed path)
VST plug-in folder 64 bits: C:\VSTPlug-ins\Acustica64\(not fixed path)
AAX plug-in folder 32 bits: C:\Program Files (x86)\ Common Files\Avid\Audio\Plug-Ins\ (fixed path)
AAX plug-in folder 64 bits: C:\Program Files\CommonFiles\Avid\Audio\Plug-Ins\ (fixed path)
File name: depends on the product or bundle. Extension: .SER.

If your audio/video host refuse to create Acqua Effect plug-in Computer Identification file, try it again running it as true administrator with administrator privilege. If you don't understand what we are talking about, please contact your system administrator for more information.

3.2.3 Computer Identification file path in OS X

- VST plug-in folder 32 bits: OSX HD/Library/Audio/Plug-ins/VST/Acustica (fixed path)
- VST plug-in folder 64 bits: OSX HD/Library/Audio/Plug-ins/VST/Acustica64 (fixed path)
- AU plug-in folder 32 and 64 bits: OSX HD/Library/Audio/Plug-ins/Components (fixed path)
- AAX plug-in folder 64 bits: OSX HD/Library/ApplicationSupport/Avid/Audio/Plug-ins/(fixed path)
- AAX plug-in folder 32 bits: OSX HD/Library/ApplicationSupport/Avid/Audio/Plug-ins/ (fixed path)

3.2.4 Computer Identification on-line request

Go to Acustica Audio website, Customer Area, Dashboard, Authorize Products. Browse to your Computer Identification file (IVORY.SER) and click Upload.
Our Global Key Generator will create your authorization and within few minutes you will receive an email with your authorization attached. The Global Key Generator will also deposit a copy of your authorization into "My Licenses" section in your Dashboard as an on-line backup.

4. Authorization request

Browse to your computer ID file (IVORY.SER) created in Acustica/Acustica64 folder(s), Components folder, AAX Plug-ins folder, depending which format are you using, and upload it in Acustica Audio website, Customer Area, Dashboard, Authorize Products.

Our Global Key Generator will create your personal key in three minutes and you will receive an email with your personal key and also GKG (Global Key Generator) will add a copy of your license into My Licenses section in your Dasboard as an on-line backup.

IMPORTANT: Try with different browsers if you have any trouble with computer ID file upload. NOTE: Do not try multiple uploads of your computer ID file (IVORY.SER) after each request, wait at least 3 minutes.

Authorize Products

If you have purchased a new Acustica product or you did a new installation, you will need to authorize it.
Please upload your authorization file (.ser) so that we can process it and register it as your license. Once we have authorized your license, it will appear in the My Licenses section of this page.
If you do not have any license showing, it means your authorization is currently pending with us, or that you have not authorized any Acustica products.
Note

- Free products doesn't need authorizations;
- The authorization process could take from 3 to 60 minutes, please be patient and don't make multiple-upload;
- You can do a limited numbers of requests;
- You will receive a copy of the license via e-mail;
- For further information, please contact: licensing@acusticaudio.net

Choose a file to upload

[   ] Examinar...

Upload File...

Browse to your computer ID file (IVORY.SER) created in Acustica/Acustica64 folder(s), Components folder, AAX Plug-ins folder, depending which format are you using, and upload it in Acustica Audio website, Customer Area, Dashboard, Authorize Products.
Our Global Key Generator will create your personal key in three minutes and you will receive an email with your personal key and also GKG (Global Key Generator) will add a copy of your license into My Licenses section in your Dasboard as an on-line backup.

Browse to your computer ID file (IVORY.SER) created in Acustica/Acustica64 folder(s), Components folder, AAX Plug-ins folder, depending which format are you using, and upload it in Acustica Audio website, Customer Area, Dashboard, Authorize Products.

Our Global Key Generator will create your personal key in three minutes and you will receive an email with your personal key and also GKG (Global Key Generator) will add a copy of your license into My Licenses section in your Dasboard as an on-line backup.

IMPORTANT: Try with different browsers if you have any trouble with computer ID file upload.
NOTE: Do not try multiple uploads of your computer ID file (IVORY.SER) after each request, wait at least 3 minutes.

4.1 License installation

After creating your license file, our Global Key Generator will send you a message to your registered email address with your license file compressed in zip format as an attachment. Decompress your license file and move it to the corresponding path, depending on the format you use. The product will be unlocked after you move the license file to the correct folder.

4.2 License file path in OS X

. VST plug-in folder 32 bits: OSX HD/Library/Audio/Plug-ins/VST/Acustica (fixed path)
. VST plug-in folder 64 bits: OSX HD/Library/Audio/Plug-ins/VST/Acustica64 (fixed path)
. AU plug-in folder 32 and 64 bits: OSX HD/Library/Audio/Plug-ins/Components (fixed path)
. AAX plug-in folder 64 bits: OSX HD/Library/ApplicationSupport/Avid/Audio/Plug-ins/ (fixed path)
. AAX plug-in folder 32 bits: OSX HD/Library/ApplicationSupport/Avid/Audio/Plug-ins/(fixed path

4.3 License file path in Windows

. VST plug-in folder 32 bits: C:\VSTPlug-ins\Acustica\(not fixed path)
. VST plug-in folder 64 bits: C:\VSTPlug-ins\Acustica64\(not fixed path)
. AAX plug-in folder 32 bits: C:\Program Files (x86)\CommonFiles\Avid\Audio\Plug-Ins\ (fixed path)
. AAX plug-in folder 64 bits: C:\Program Files\CommonFiles\Avid\Audio\Plug-Ins\(fixed path).
File name: depends on the product or bundle.
Extension: .AUT.

Note: our Global Key Generator will also deposit a copy of both your Computer Identification and your license into "My Licenses" section in your Dashboard as an on-line backup.

. AU plug-in folder 32 bits: OSX HD/Library/Audio/Plug-ins/Components(fixed path)
. AU plug-in folder 64 bits: OSX HD/Library/Audio/Plug-ins/Components(fixed path)
. AAX plug-in folder 32 bits: OSX HD/Library/ApplicationSupport/Avid/Audio/Plug-ins (fixed path)
. AAX plug-in folder 64 bits: OSX HD/Library/ApplicationSupport/Avid/Audio/Plug-ins (fixed path)

4.4.2 Windows paths:

. VST plug-in folder 32 bits: C:\VSTPlug-ins\Acustica\(recommended path)
. VST plug-in folder 64 bits: C:\VSTPlug-ins\Acustica64\(recommended path)
. AAX plug-in folder 32 bits: C:\Program Files (x86)\CommonFiles\Avid\Audio\Plug-Ins\ (fixed path)
. AAX plug-in folder 64 bits: C:\Program Files\CommonFiles\Avid\Audio\Plug-Ins\ (fixedpath)

4.4.1 OS X paths:

. VST plug-in folder 32 bits: OSX HD/Library/Audio/Plug-ins/VST/Acustica(fixed path)
. VST plug-in folder 64 bits: OSX HD/Library/Audio/Plug-ins/VST/Acustica64(fixed path)

Also recommended:

- Do not resume downloads.
- Disable any anti-virus and/or any anti-malware.
- Disable OSX Gatekeeper.
- Disable Windows Smart Screen.

5. Overview

Acustica is pleased to present the new version of Ivory, not a simple upgrade but a complete review of the previous IVORY2, an ambitious project whose goal is to provide a set of unmistakable and faithful plugins introducing new important features.

This third version is completely new and is a new bundle made up of 6 different plugins in CORE X, this is the largest plug-in suite built by Acoustics, providing the customer with a full pack featuring an absolutely distinctive sound.

Acustica has carefully redesigned the Ivory product, ensuring faithful emulations, ensuring precision and accuracy of the emulations while guaranteeing performance and quality, adding a Dynamic EQ and Multiband Compressor and their Stereo versions of them. An absolutely unique and complete bundle!

IVORY IAE-4
The dynamic Equalizer

6. Introduction
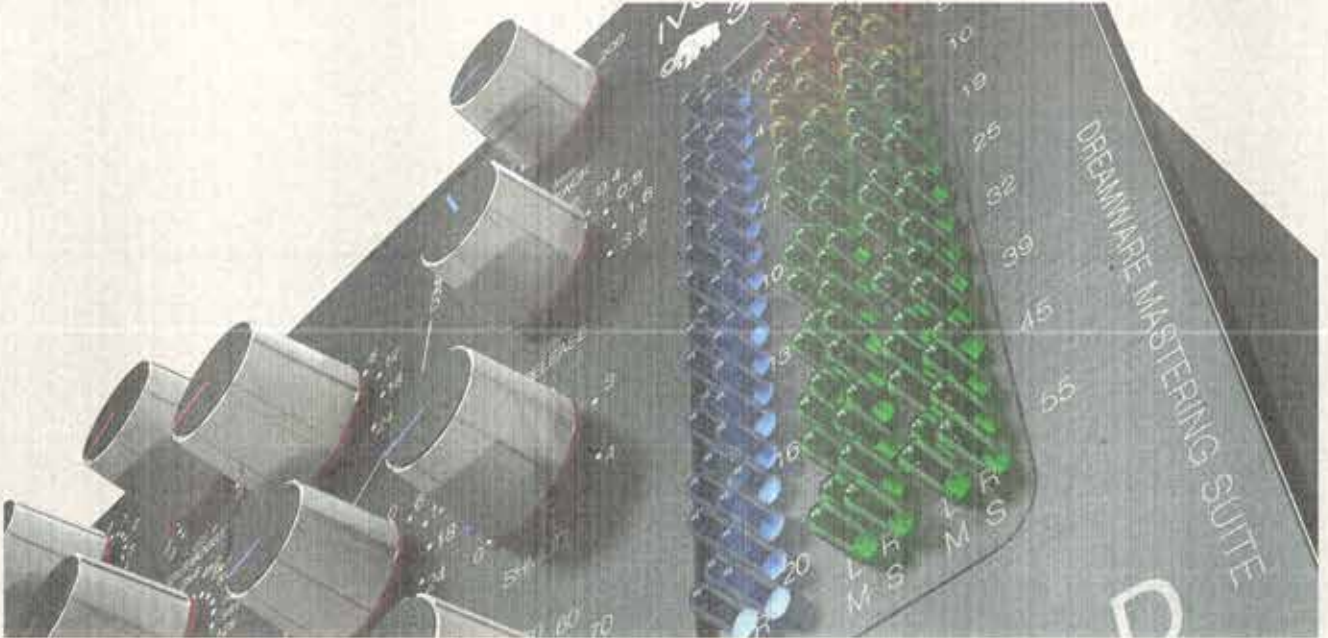
IVORY IAE-4
The dynamic Equalizer

The IVORY DREAMWARE MASTERING SUITE is made up of 6 separate Acqua plug-ins with gorgeous graphical user interfaces that enable easy and quick parameter changes.

IVORY3 bundle includes:

- IVORY3
- IVORY3 STEREO
- IVORY3 DYNEQ
- IVORYEQ DYNEQ STEREO
- IVORYCOMP 1B
- IVORYCOMP 3B

6.1. Equalizers: Ivory IAE-2 / IAE-3

Ivory3 is the upgraded version of IVORY intended for professional audio use in recording, mixing and mastering applications.

This plug-in is carefully crafted to provide an equalizer with a great sonic character and high performance.

Ivory3 provide four separate equalizer sections, with EQ in/out for each channel. All section are switchable between shelving & five different peaking responses.

The newest Ivory3 was sampled again to guarantee more precision and accuracy, it's composed by double samples level for the gain, this resampling has been done so well that it was not necessary to syncronize (ULTRASYNC) any sample

The Preamp section adds extra harmonics to this Eq and can be switched-off to use a chain of Eqs without summing the harmonics of each of them.

Ivory3 is also available in STEREO version*.

IVORY IAE-2
The equalizer
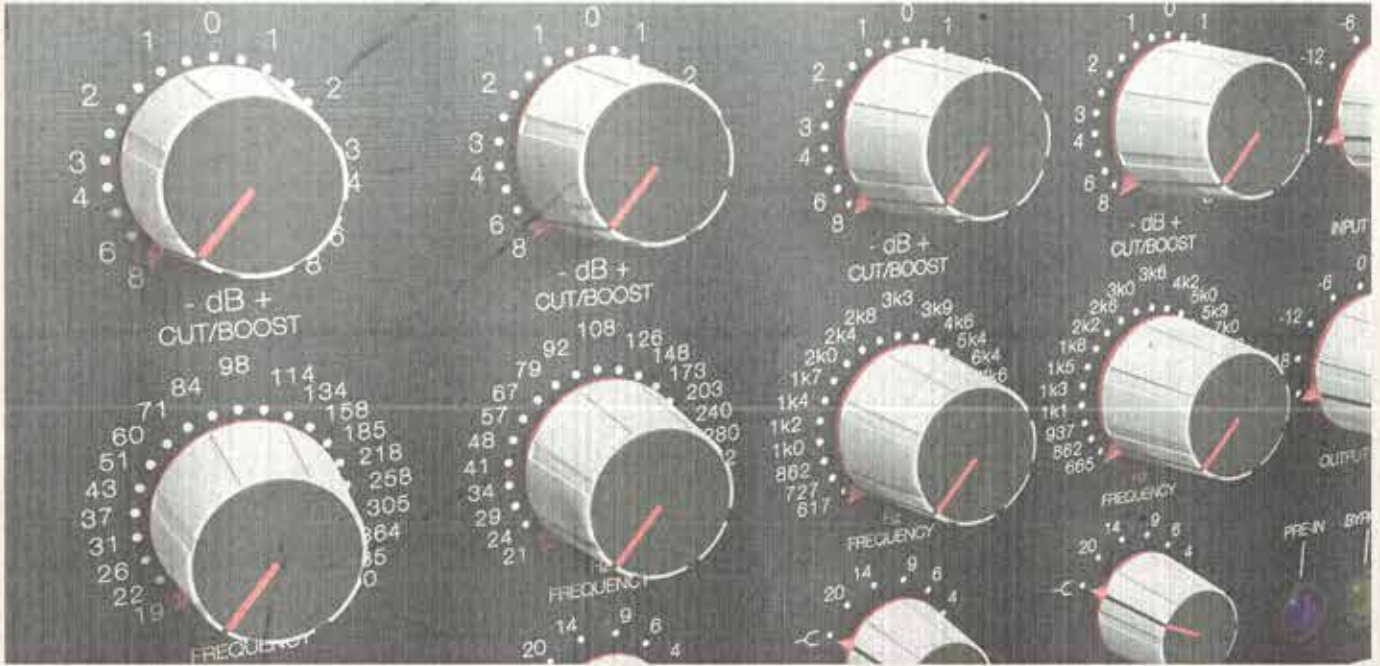
IVORY IAE-2
The equalizer

Operation

Output: This knob controls plug-in input and output gain.

PRE-IN button enables (lamp ON) or bypasses (lamp OFF) the preamp stage of Ivory Eq.

BYPASS button sets to bypass the plug-in (lamp ON)) or not-bypasses (lamp OFF)

Input Trim: This knob sets the input level from -24dB to +24dB, and is used to control the signal level inside the eq, the output level is than automatically compensated by the same amount of gain.

At the first execution of the plug-in, input is set to ensure that you feed an appropriate level from the first stage of your signal path to the final one.

Input-Output VU meter: It measures the input (topmost position meter) and output (lowest position meter) levels of the plug-in.

Each band is controlled independently by an identical set of controls; sections are Low Frequency 1, Low Frequency 2, High Frequency 1 and High Frequency 2, each section has controls for:

- Q
- Frequency
- Cut/Boost

Parametric Bands/Q:
Available value for Q are:
shelf, 4, 6, 9, 14 and 20 (although these vary depending on gain and bandwidth selection)

Frequencies:
Here the list of available frequencies for each band:

- Low Frequency 1 (Hz): 19, 22, 26, 31, 37, 43, 51, 60, 71, 84, 98, 114, 134, 158, 185, 218, 258, 305, 364, 435, 540;
- Low Frequency 2 (Hz): 21, 24, 29, 34, 41, 48, 57, 67, 79, 92, 108, 126, 148, 173, 203, 240, 280, 332, 400, 477, 572;
- High Frequency 1 (Hz): 617, 727, 862, 1k, 1k2, 1k4, 1k7, 2k0, 2k4, 2k8, 3k3, 3k9, 4k6, 5k4, 6k4, 7k6, 9k0, 11k, 13k, 17k, 24k;
- High Frequency 2 (Hz): 665, 787, 937, 1k1, 1k3, 1k5, 1k8, 2k2, 2k6, 3k0, 3k6, 4k2, 5k0, 5k9, 7k0, 8k2, 9k7, 12k, 14k, 19k, 27k;

Cut/Boost (dB):
Cut/boost values range from -8dB to 8dB.

Ivory 3 STEREO version
Ivory3 Eq Stereo is the stereo version of Ivory3 EQ (IAE-2), so each MONO-channels can be controlled independently or dependently by an identical set of controls.

It is equipped with the same controls as Ivory3 EQ (IAE-2) and other features:

- Ivory3 EQ Stereo version is composed by 2 different channels (LEFT-RIGHT) engaging M/S mode the LEFT channel became the MID (M) channel and the RIGHT channel became the SIDE (S) channel.
- M/S: This button allows to choose the LEFT-RIGHT or the MID-SIDE configuration of the plug-in.
- INSANE MODE (ACUSTICA LOGO): This button engages the INSANE mode. This mode has been implemented to increase the accuracy and speed of the compressor, but it's more expensive in terms of CPU usage.

IVORY IAE-3
The stereo equalizer

- IN-OUT METERS: Pressing METER-IN button of each channel the LEFT/RIGHT meter measure the INPUT level otherwise pressing METER-OUT button the LEFT/RIGHT meter measure the OUTPUT level of the plugin.

IVORY3 STEREO (IAE-3) DETAILS:
Here's a fairly common processing in mastering: push the M/S button of the IVORY3 STEREO plugin to activate this mode. The Left and Right Channels (A & B) become respectively the Mid and Side components (M & S) of the signal.
Decrease the LOW range of frequency (under 100/200 Hz) and High range of frequency (above 10/15 KHz) of the S channel.
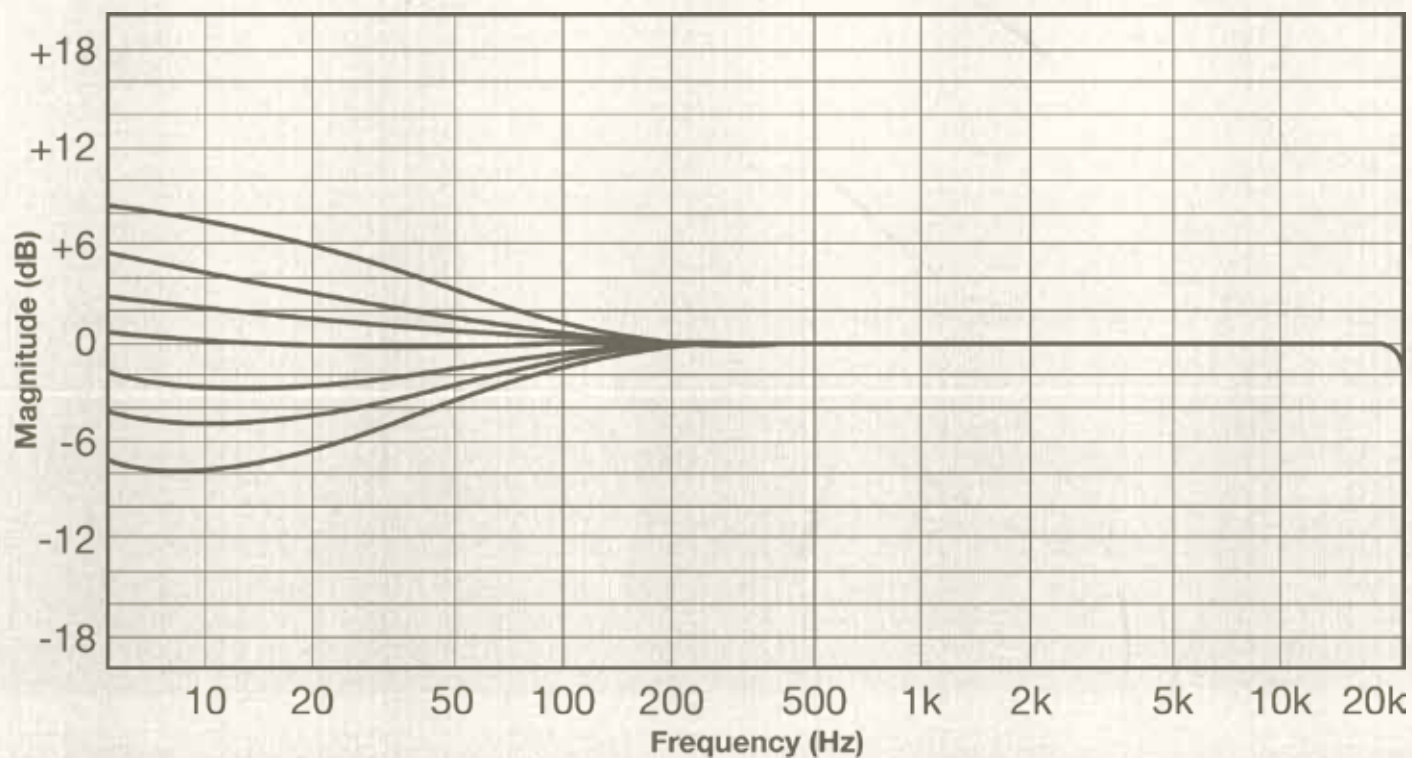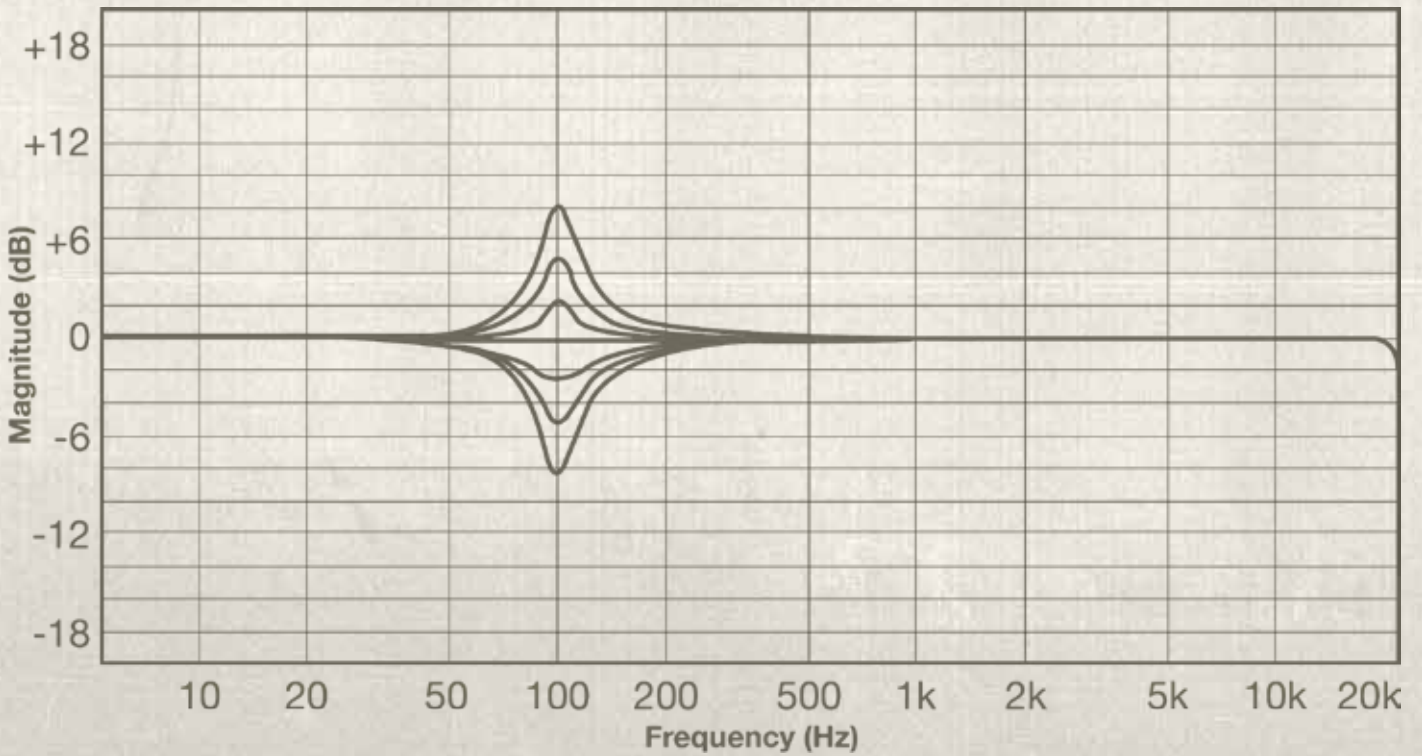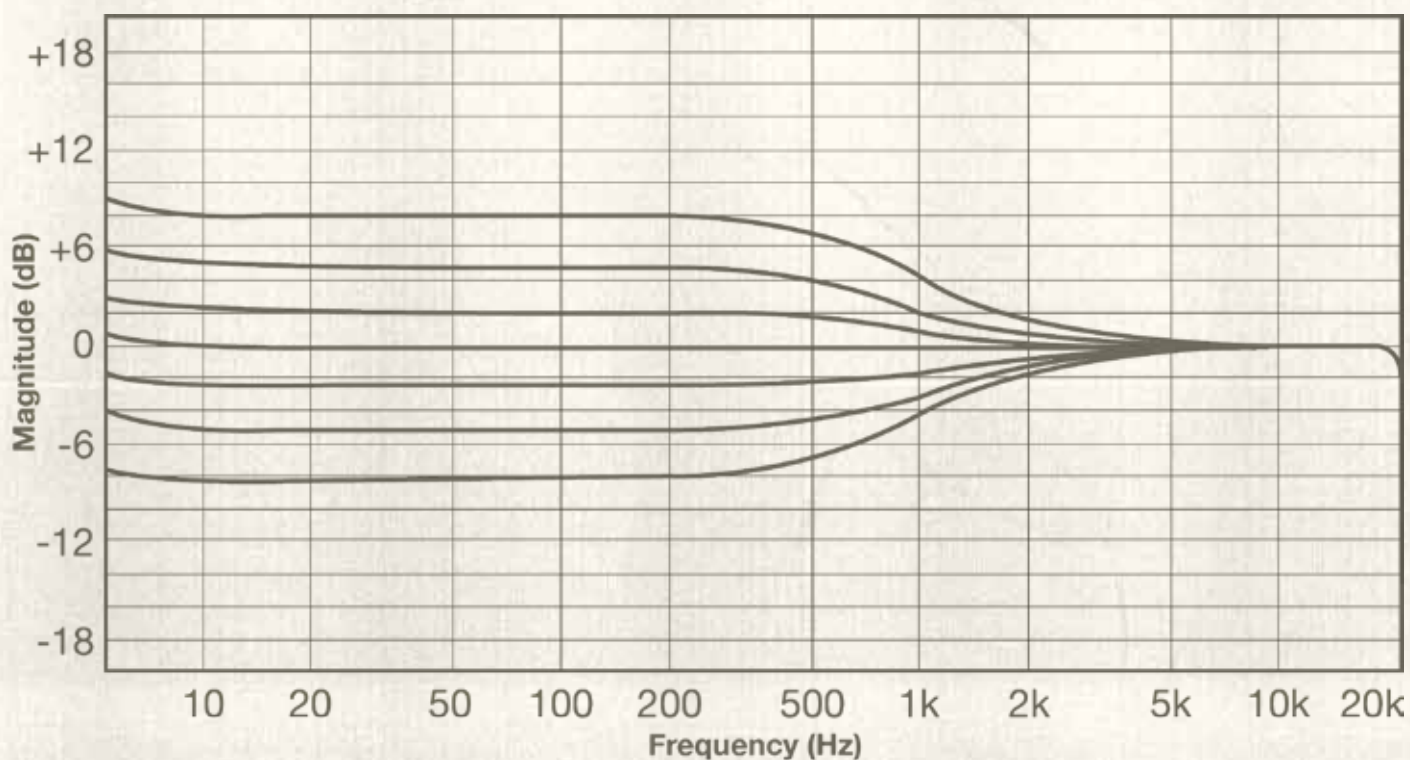
Gain -8,-4,-2,0,2,4,8 / Frequency 19 Hz / Q: shelf
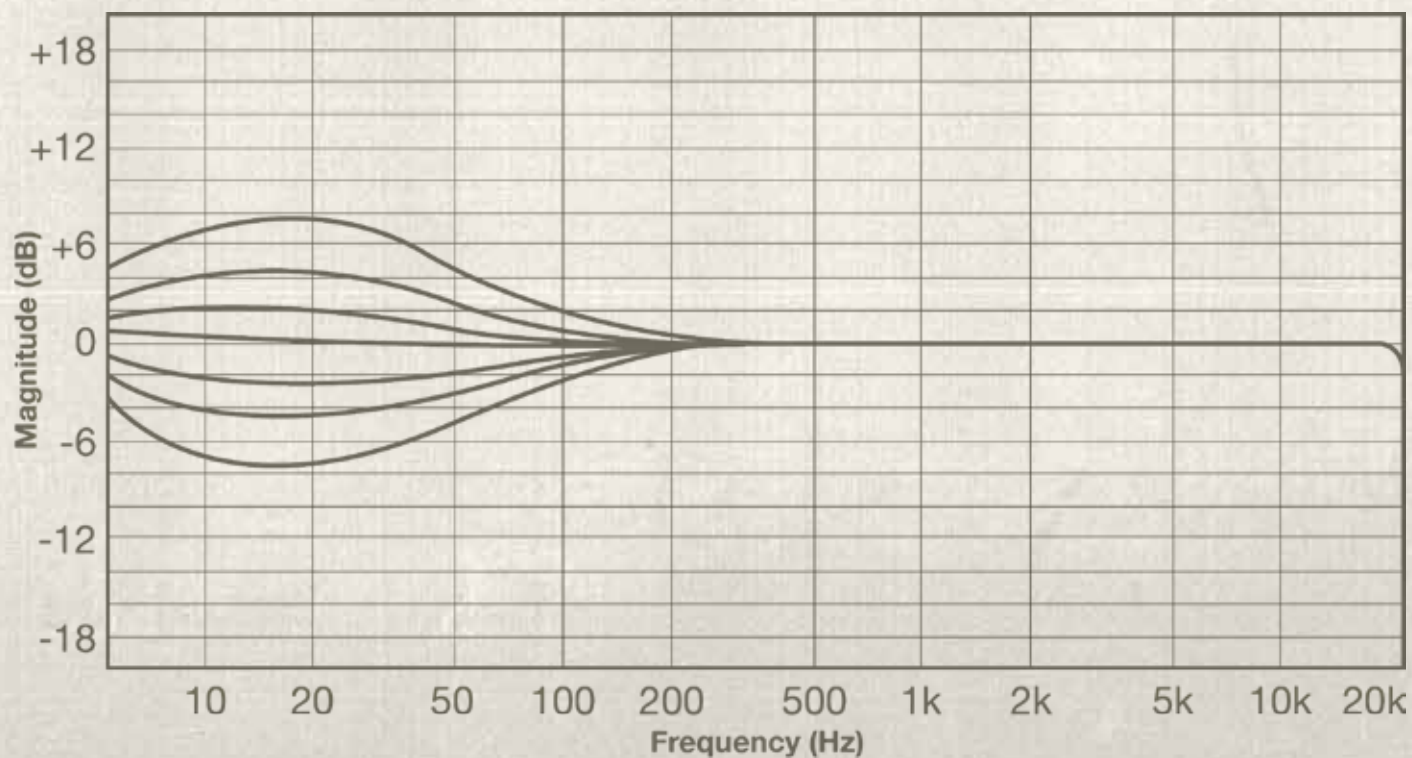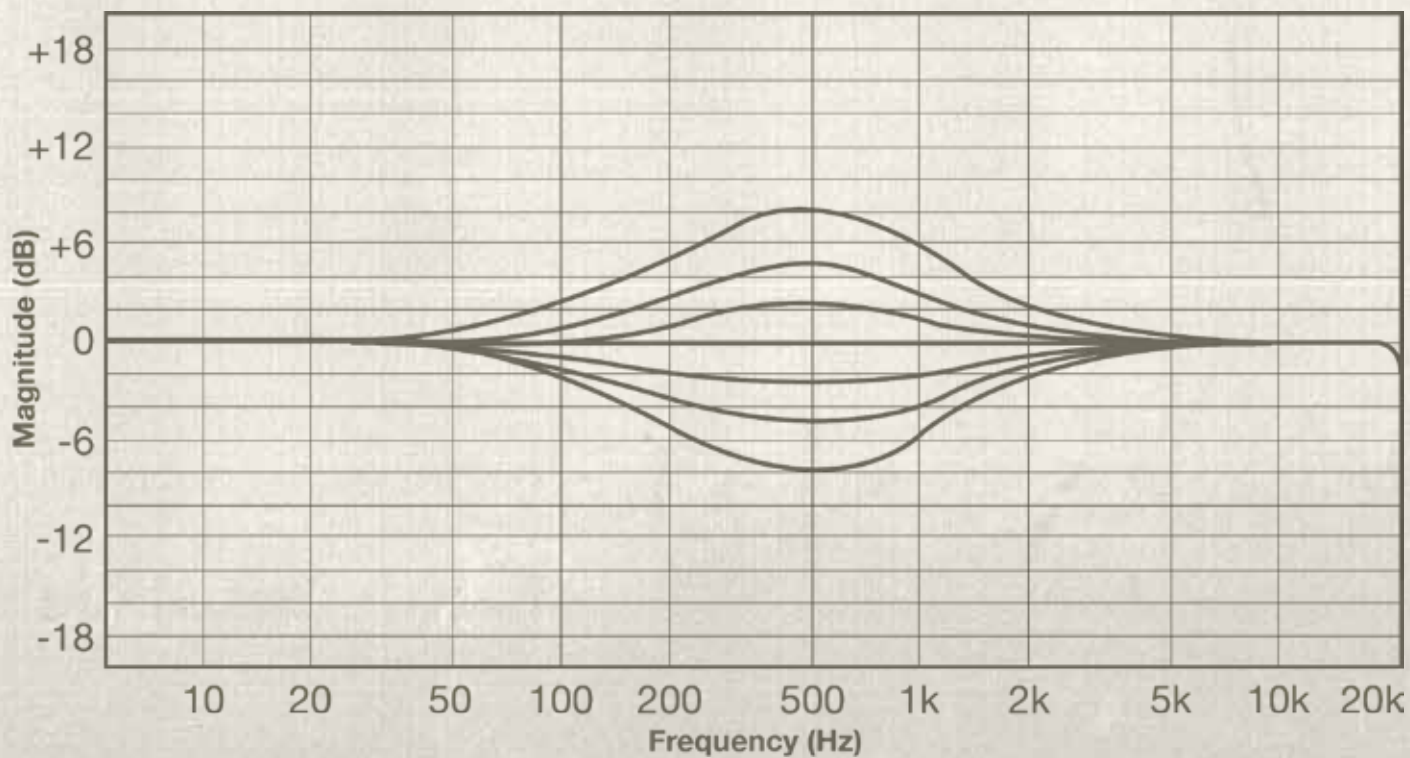

Gain -8,-4,-2,0,2,4,8 / Frequency 19 Hz / Q: 20
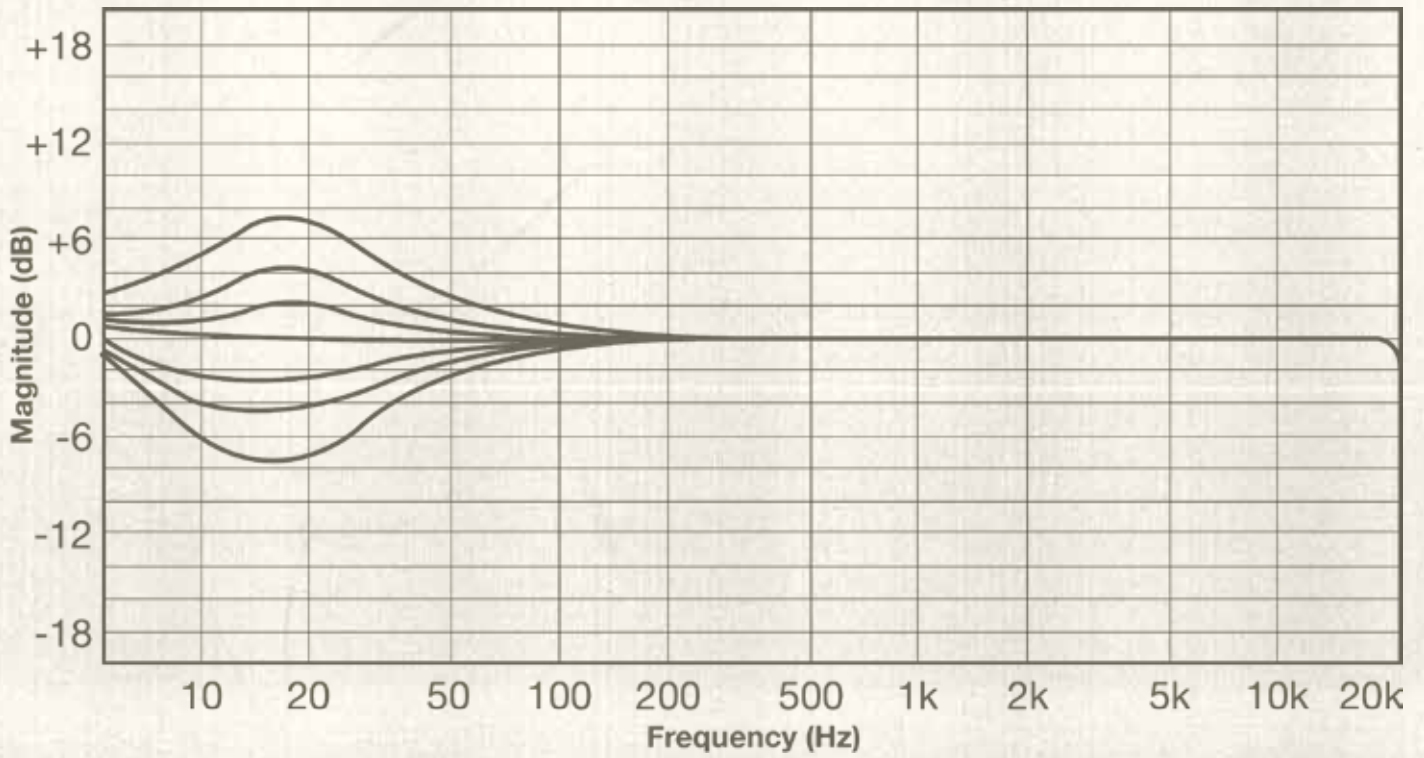
Gain -8,-4,-2,0,2,4,8 / Frequency 19 Hz / Q: 12
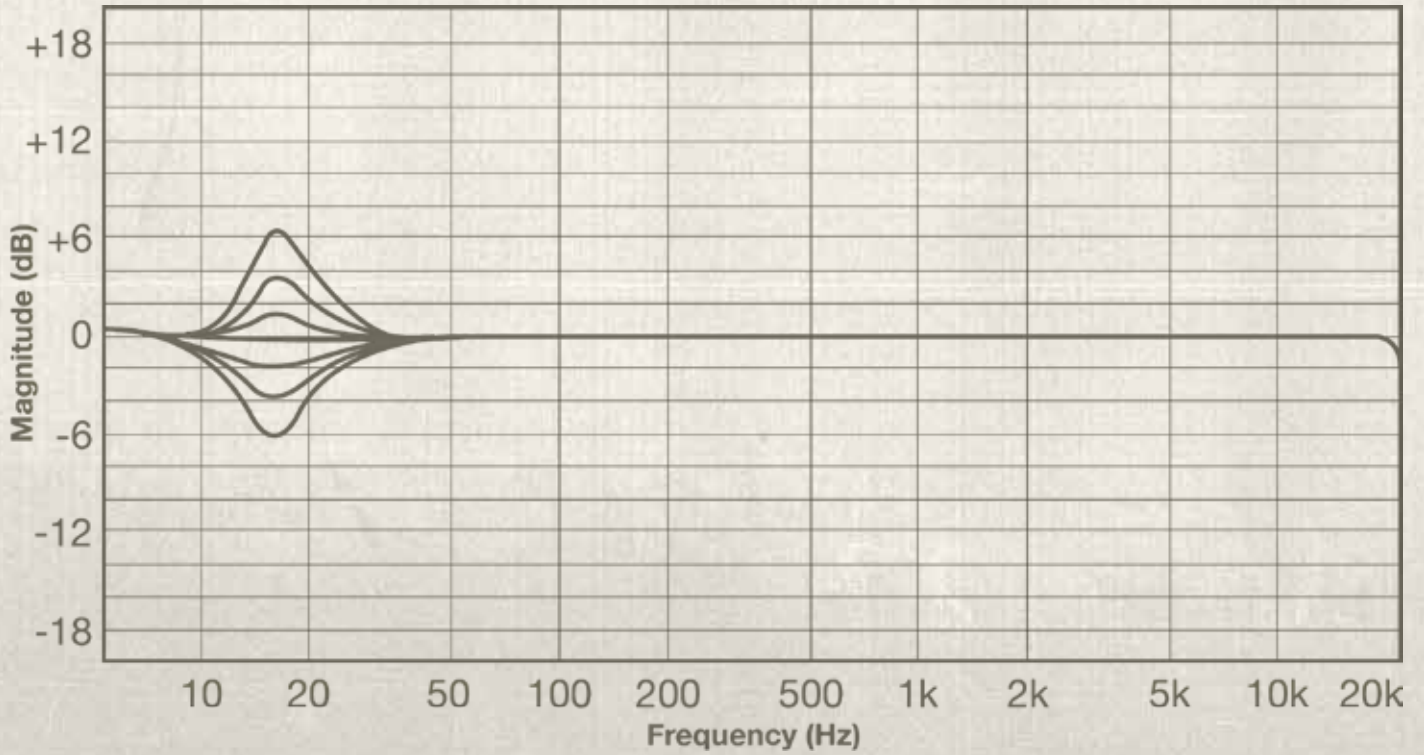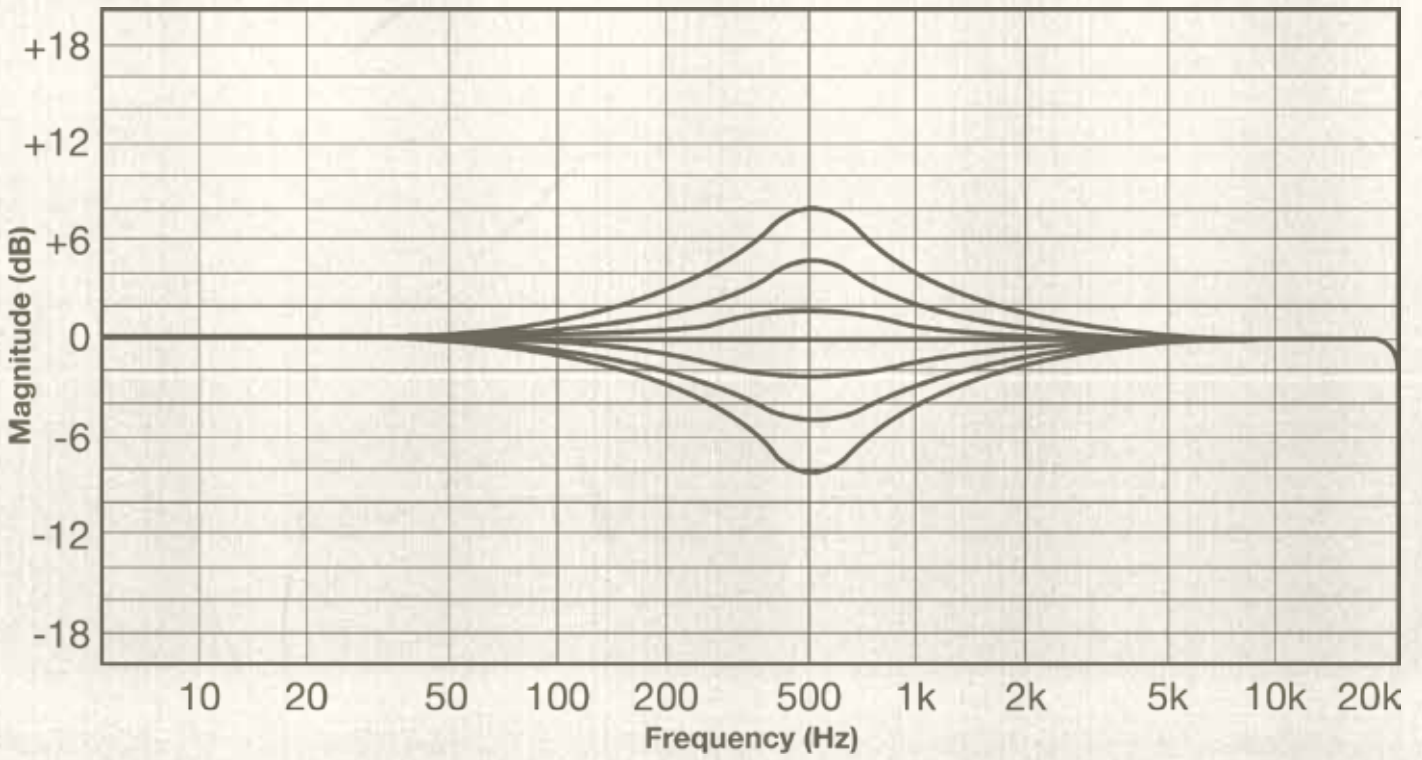

Gain -8,-4,-2,0,2,4,8 / Frequency 19 Hz / Q: 4
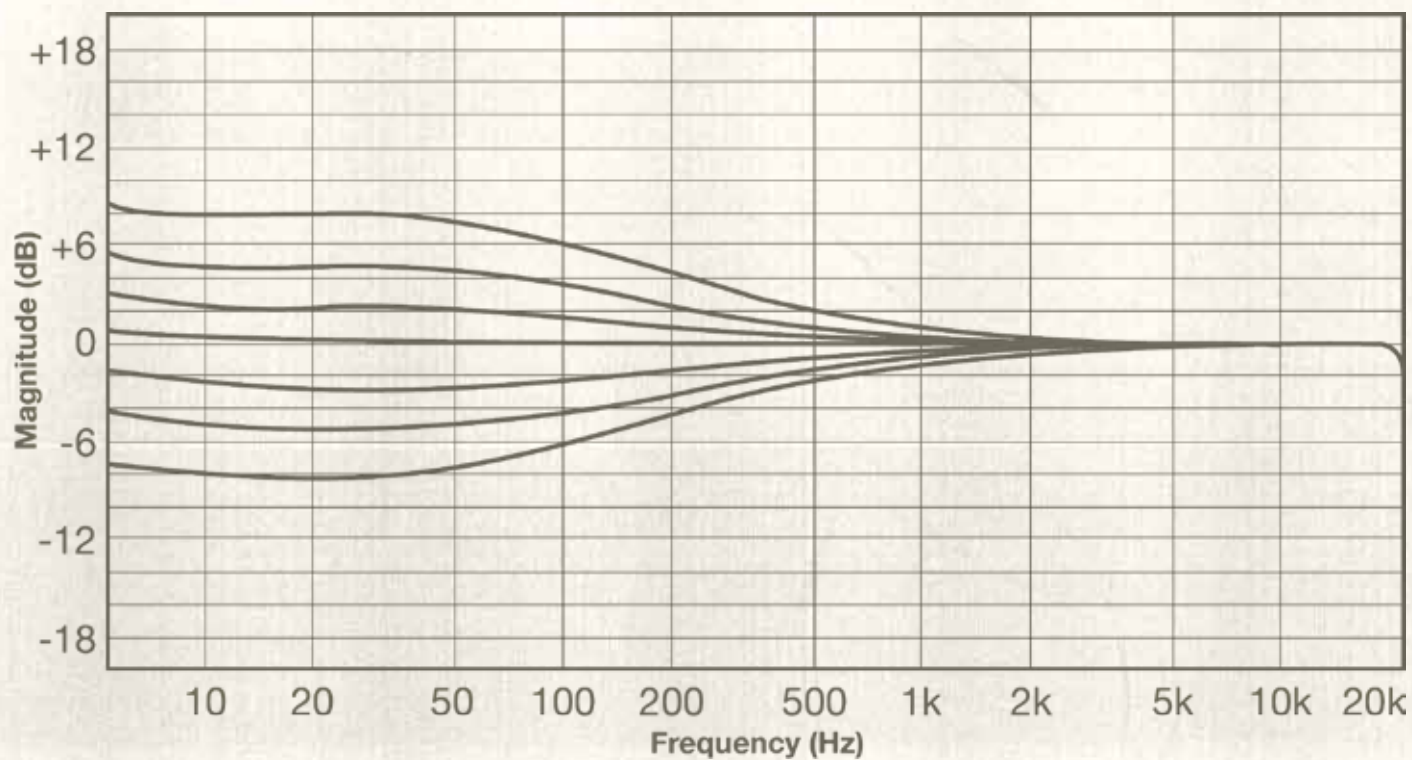
Gain -8,-4,-2,0,2,4,8 / Frequency 98 Hz / Q: shelf
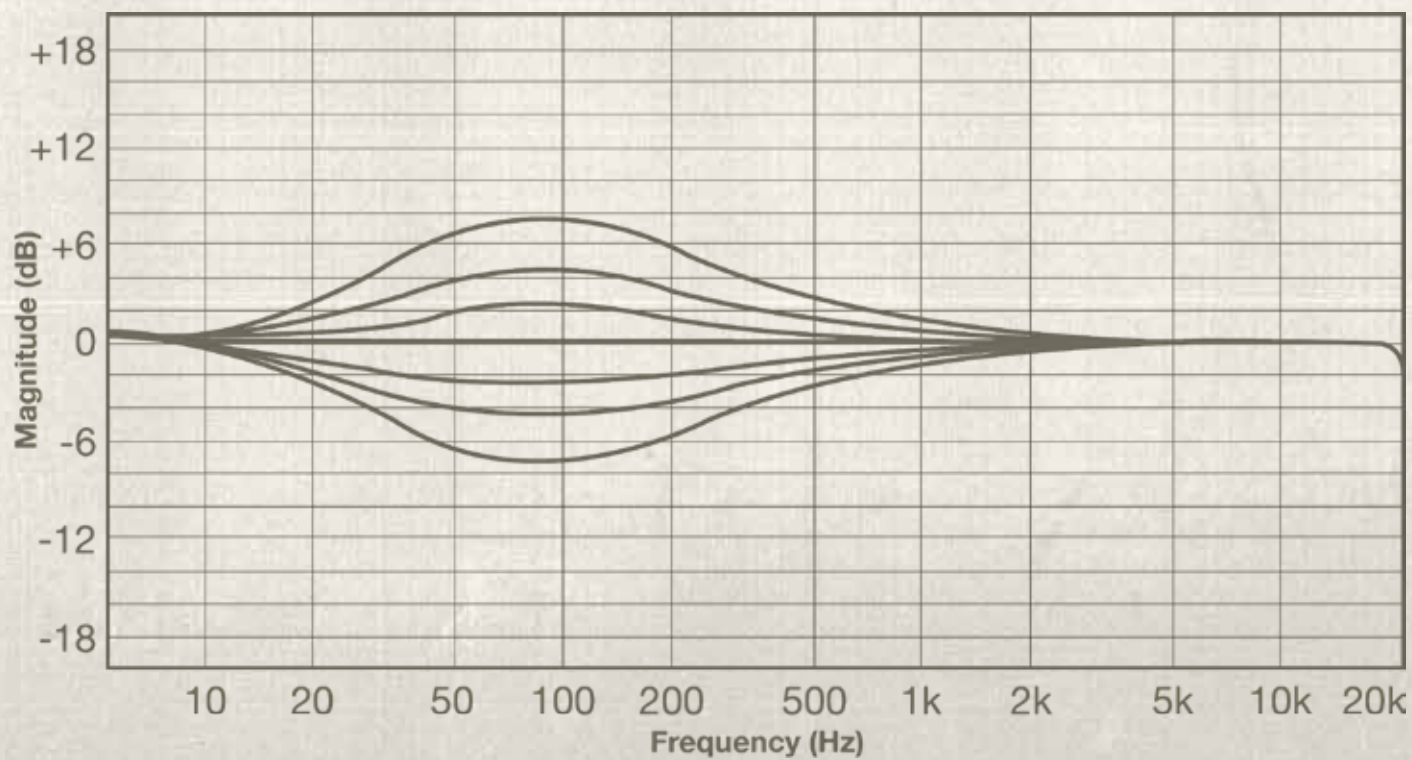
Gain -8,-4,-2,0,2,4,8 / Frequency 98 Hz / Q: 20
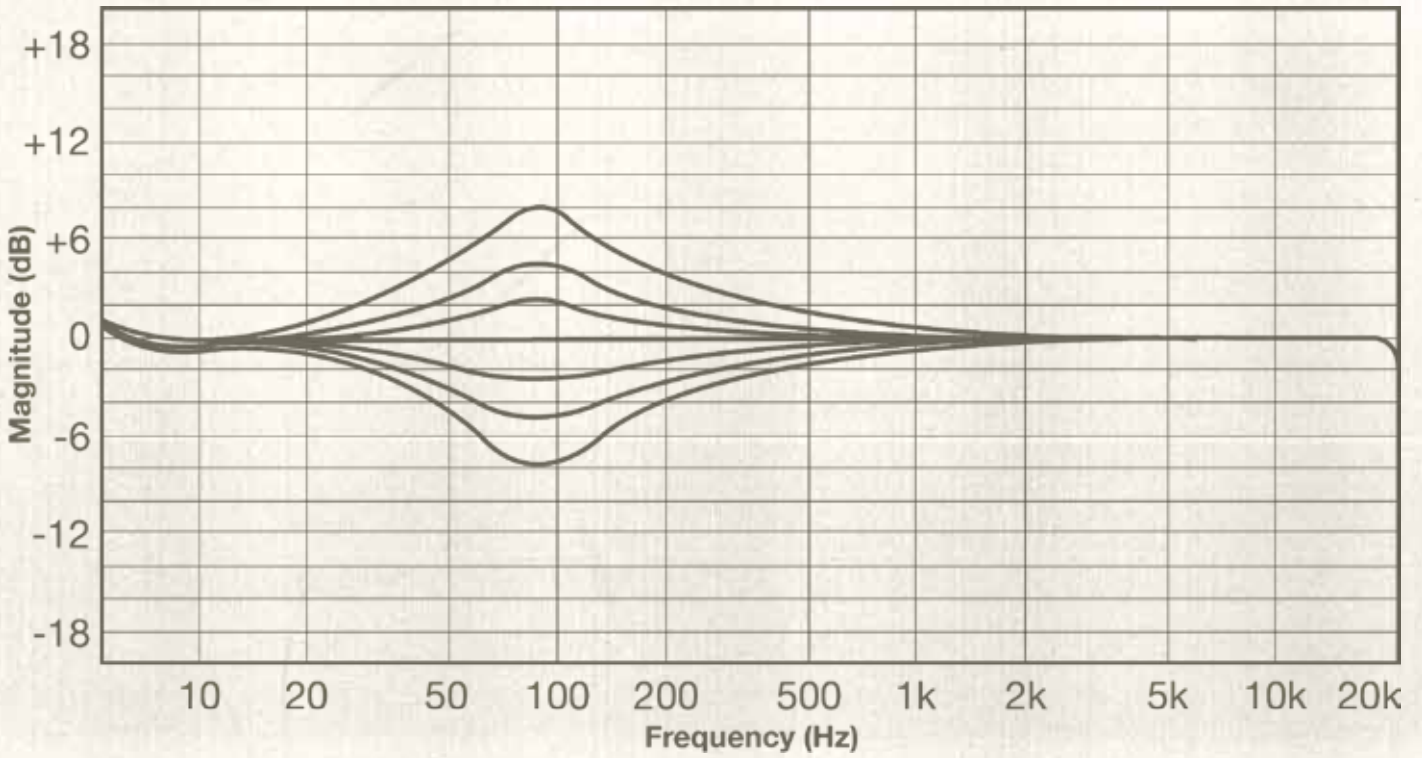
Gain -8,-4,-2,0,2,4,8 / Frequency 98 Hz / Q: 12
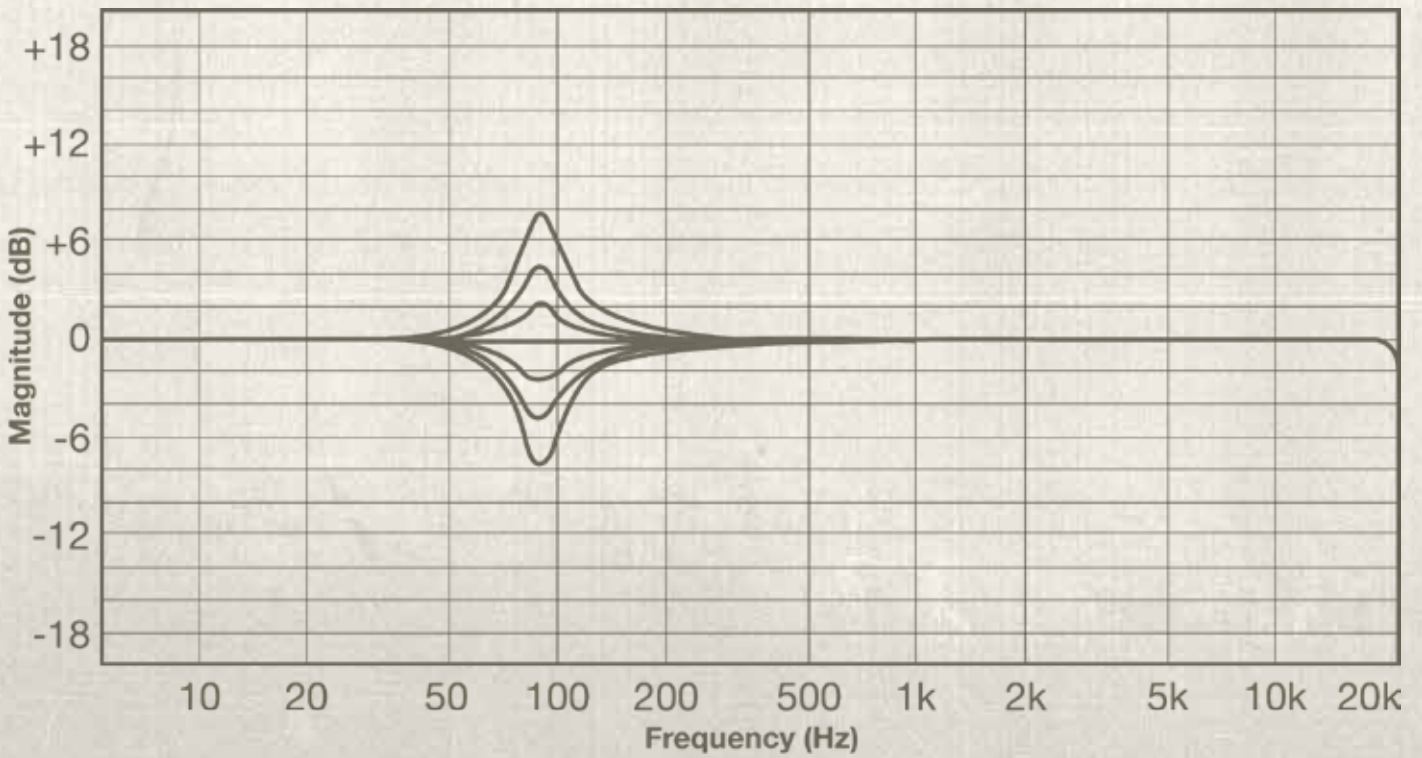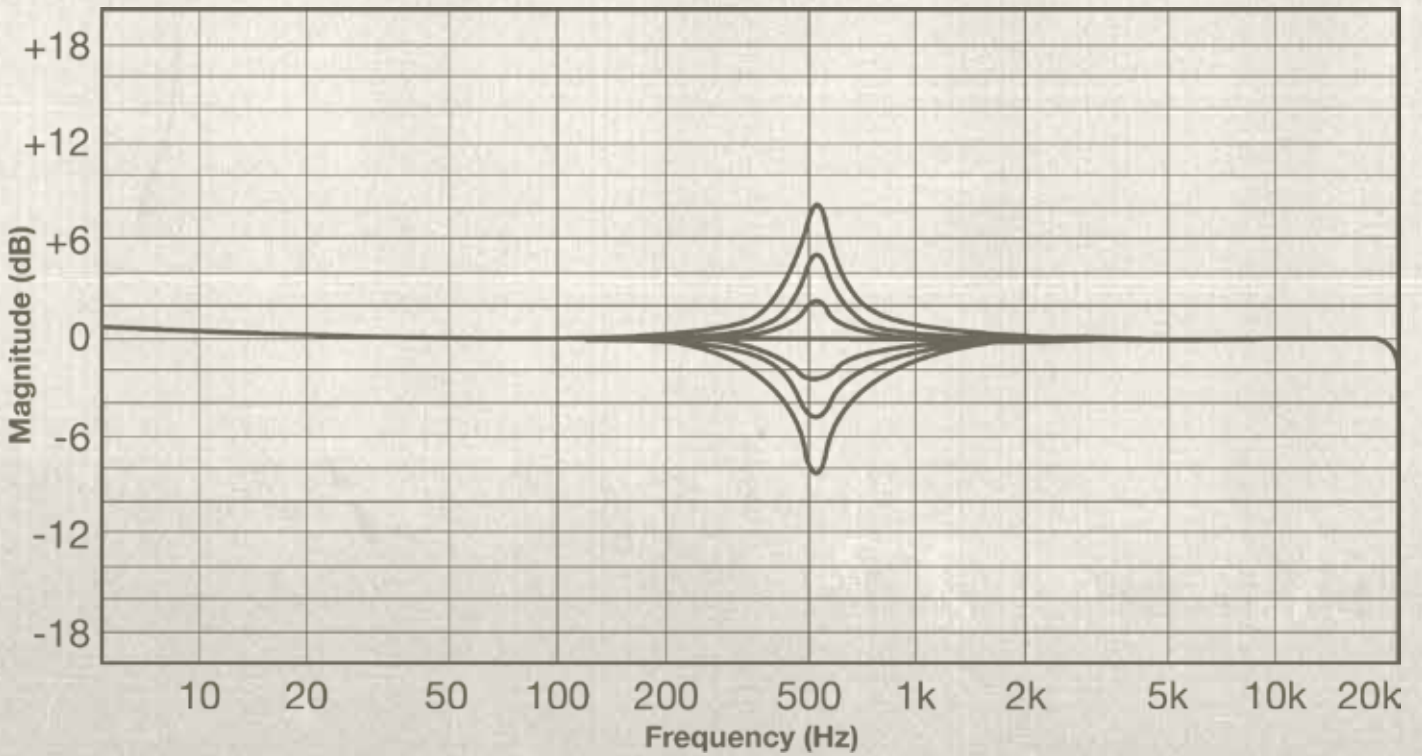

Gain -8,-4,-2,0,2,4,8 / Frequency 98 Hz / Q: 4
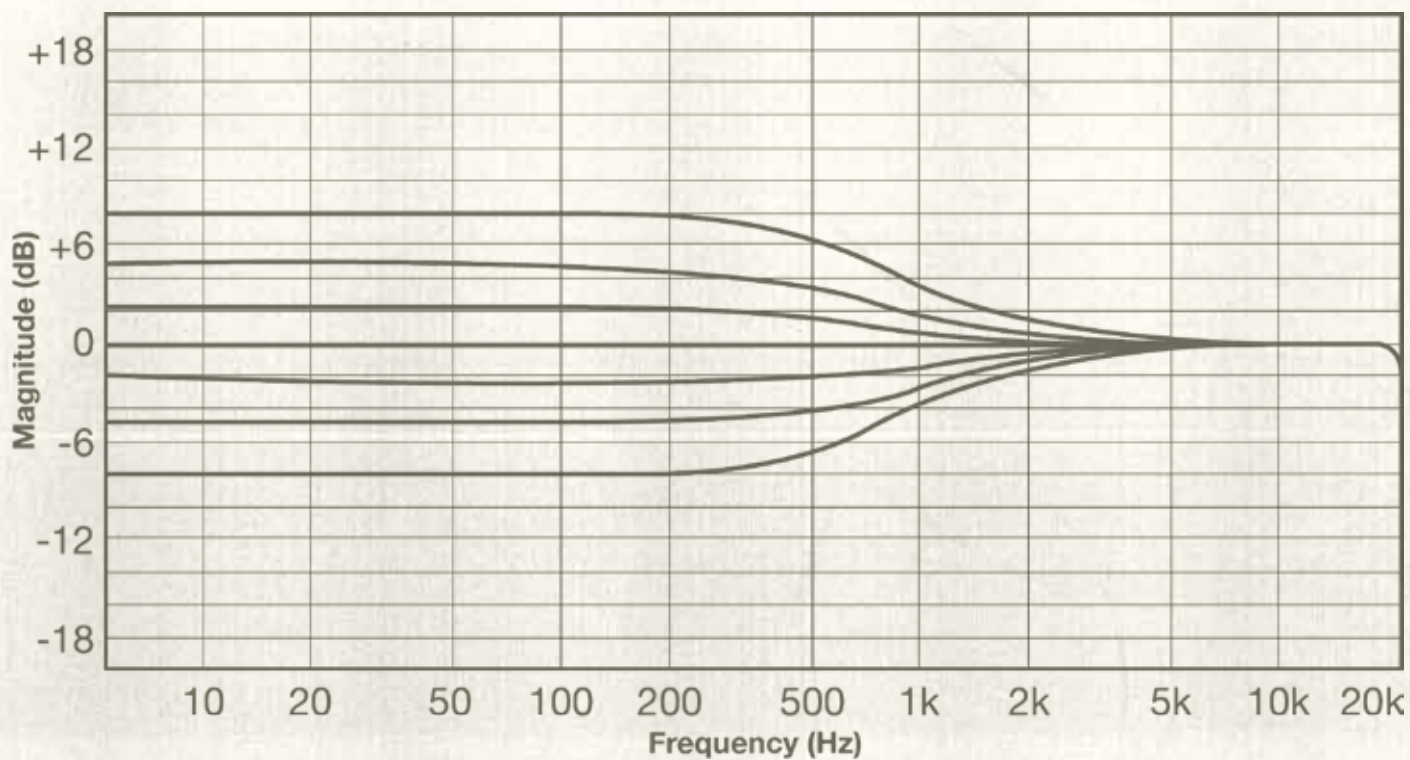
Gain -8,-4,-2,0,2,4,8 / Frequency 530 Hz / Q: shelf
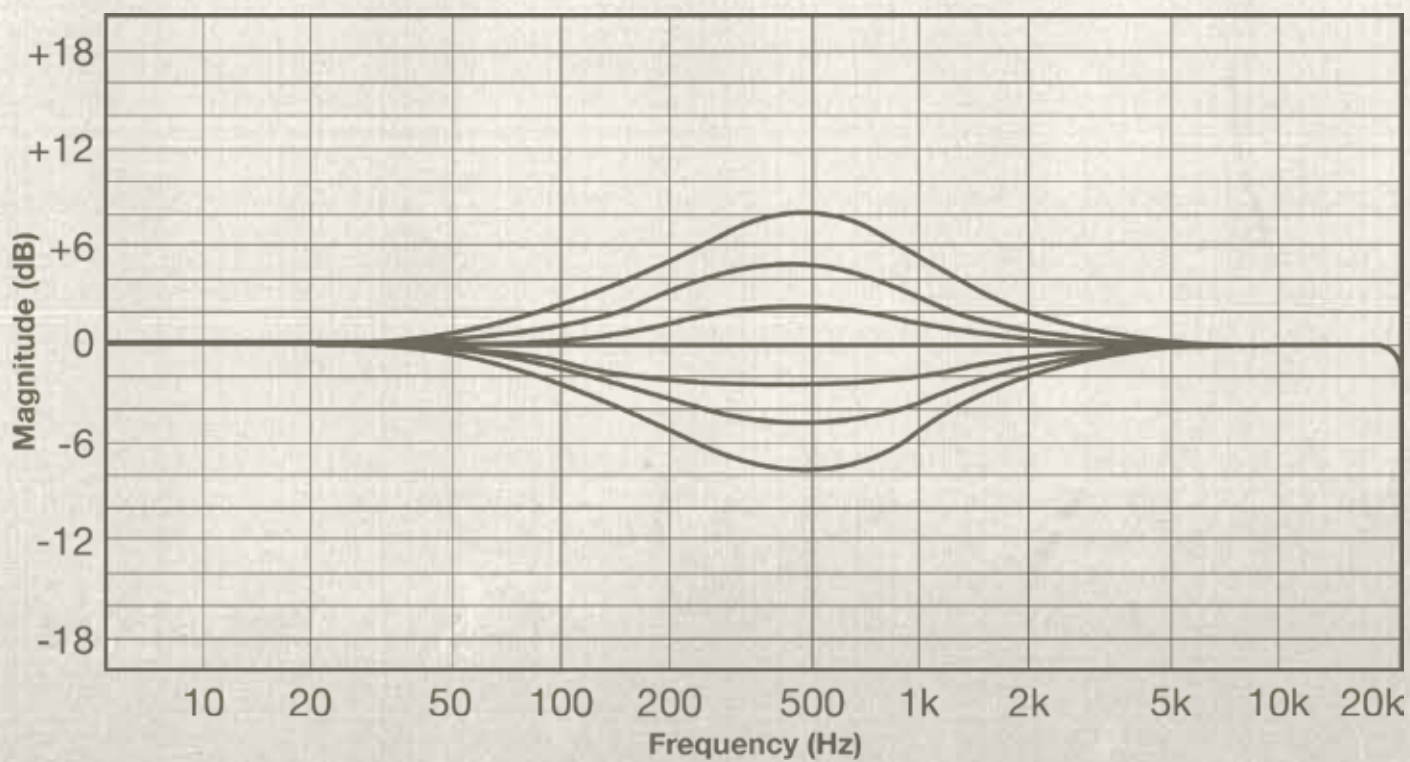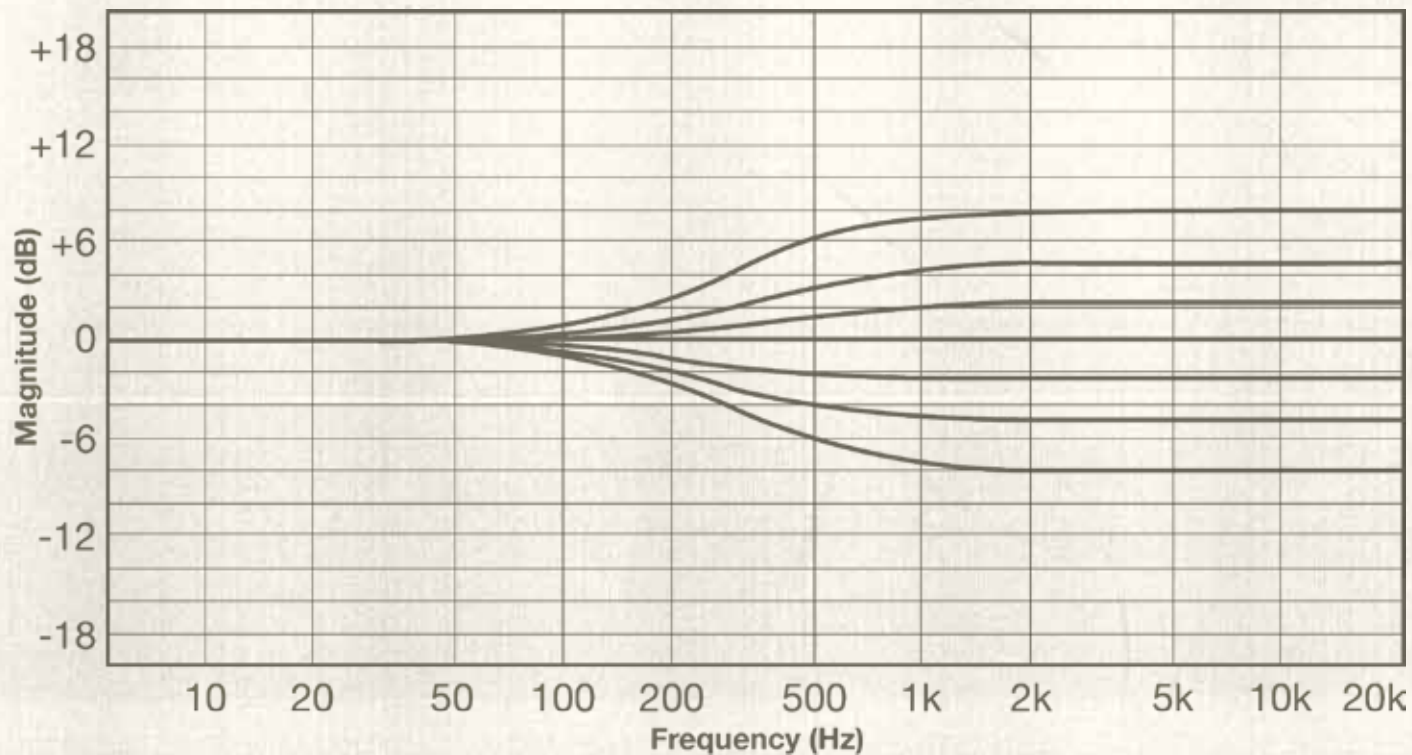

Gain -8,-4,-2,0,2,4,8 / Frequency 530 Hz / Q: 20
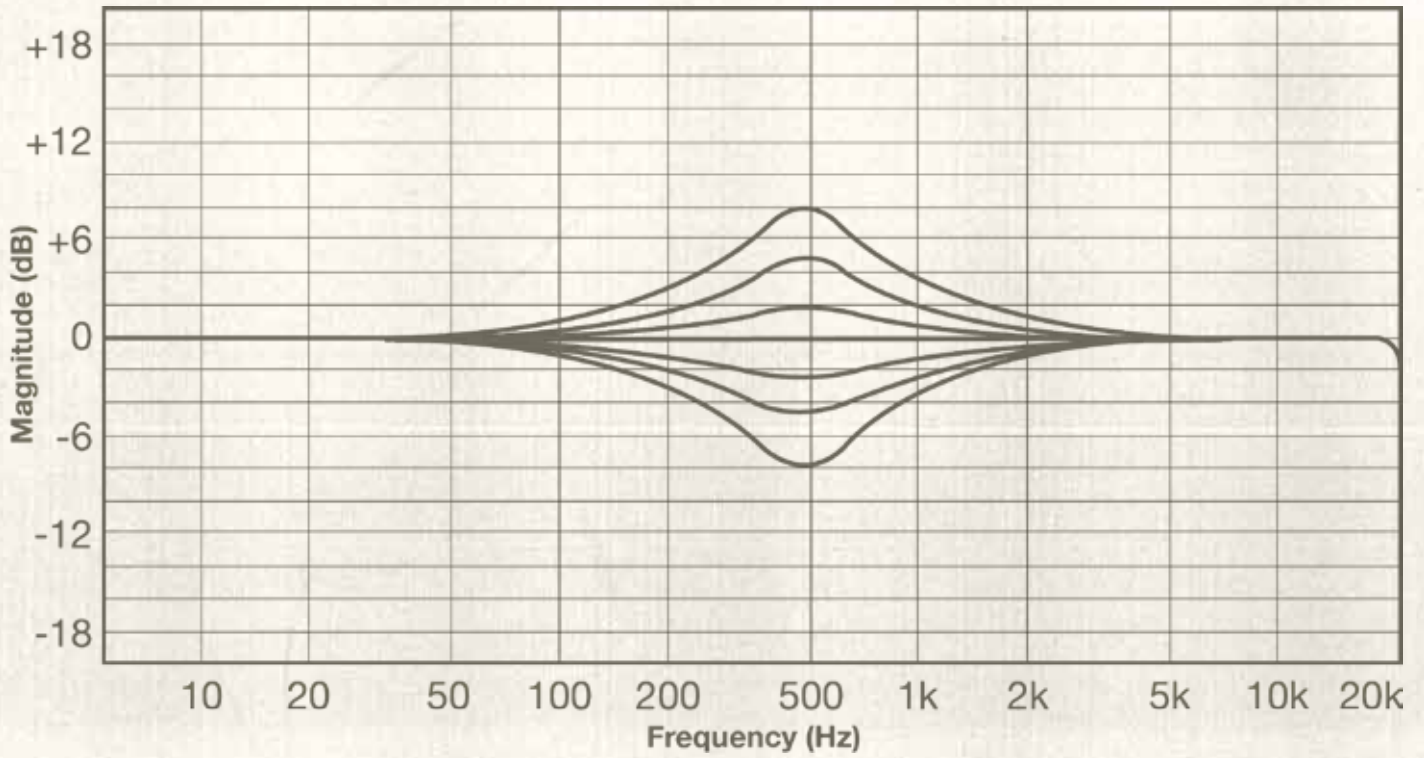
Gain -8,-4,-2,0,2,4,8 / Frequency 530 Hz / Q: 12
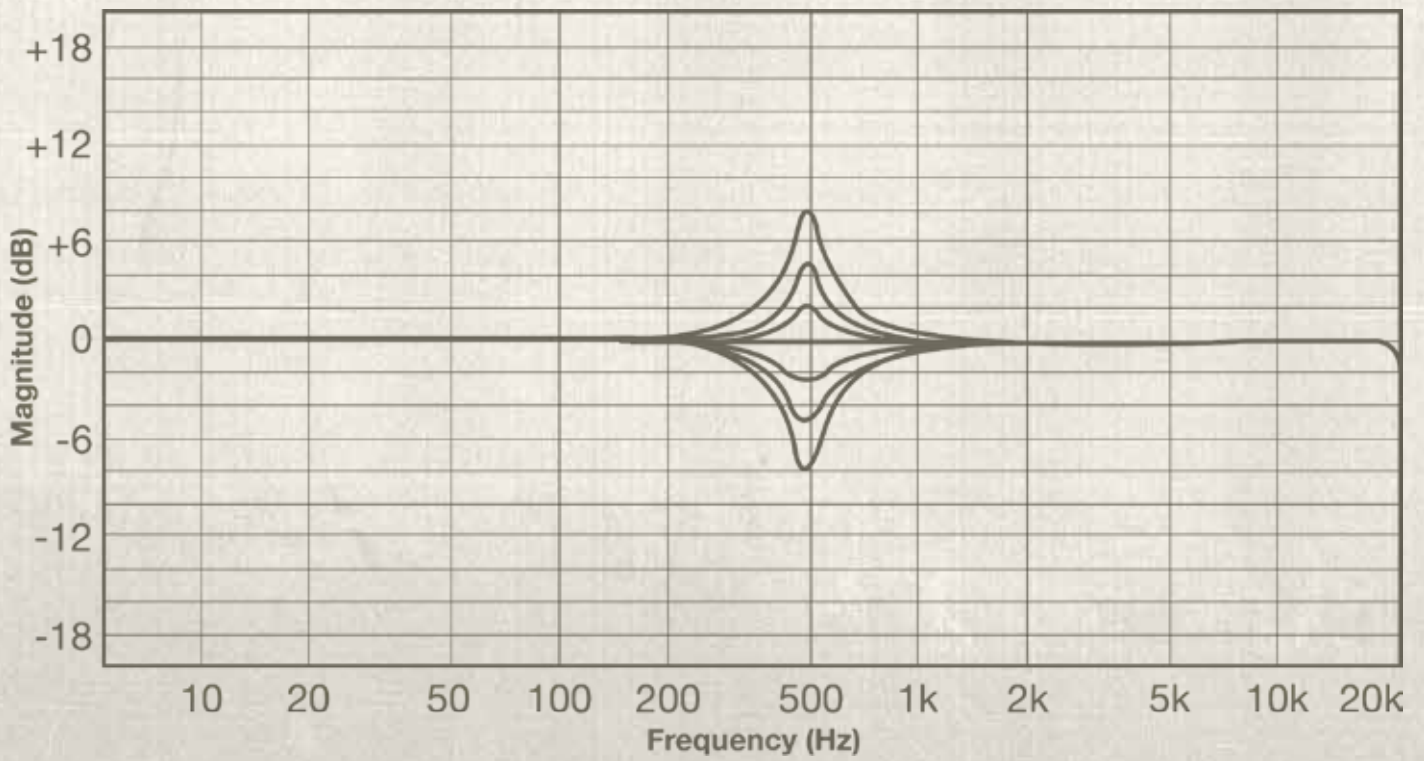
Gain -8,-4,-2,0,2,4,8 / Frequency 530 Hz / Q: 4

LOW MID FREQ
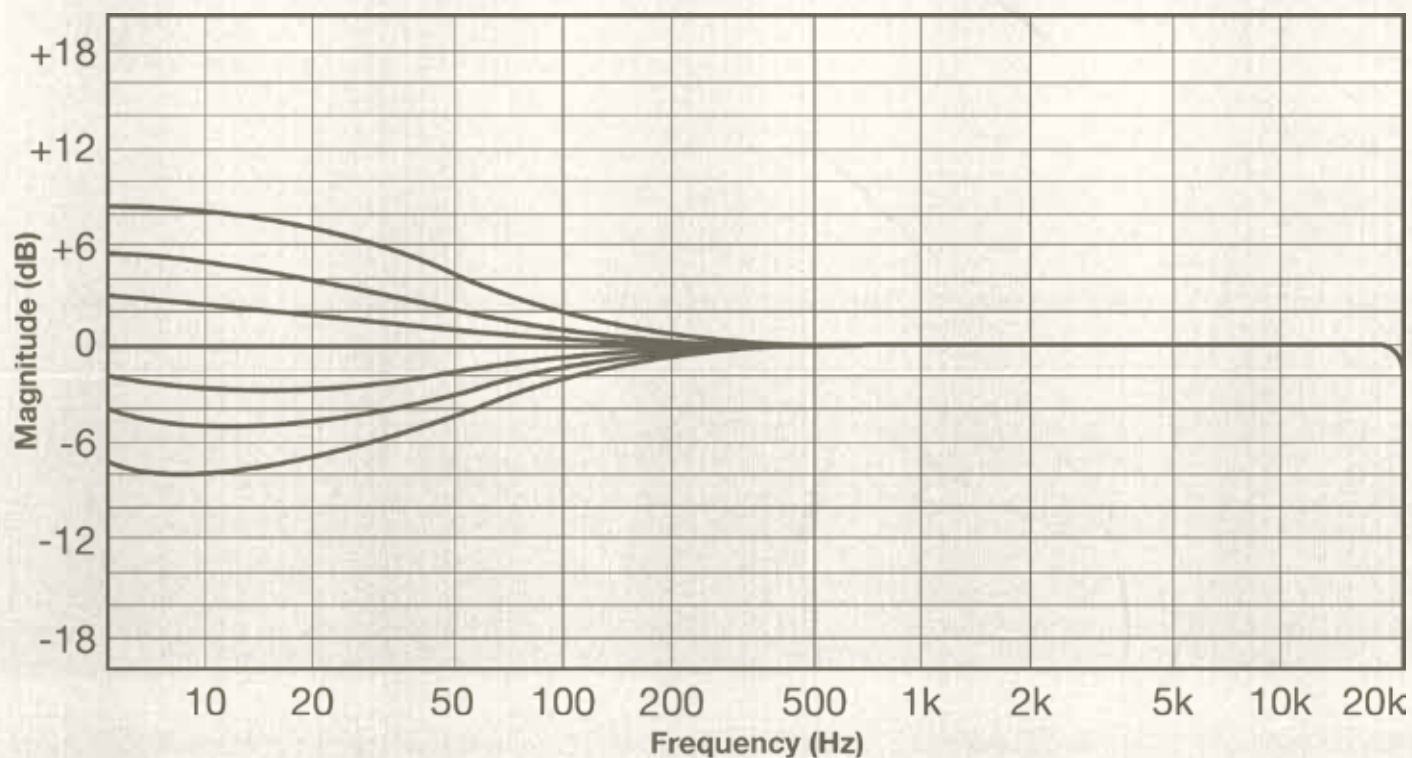
Gain -8,-4,-2,0,2,4,8 / Frequency 21 Hz / Q: shelf
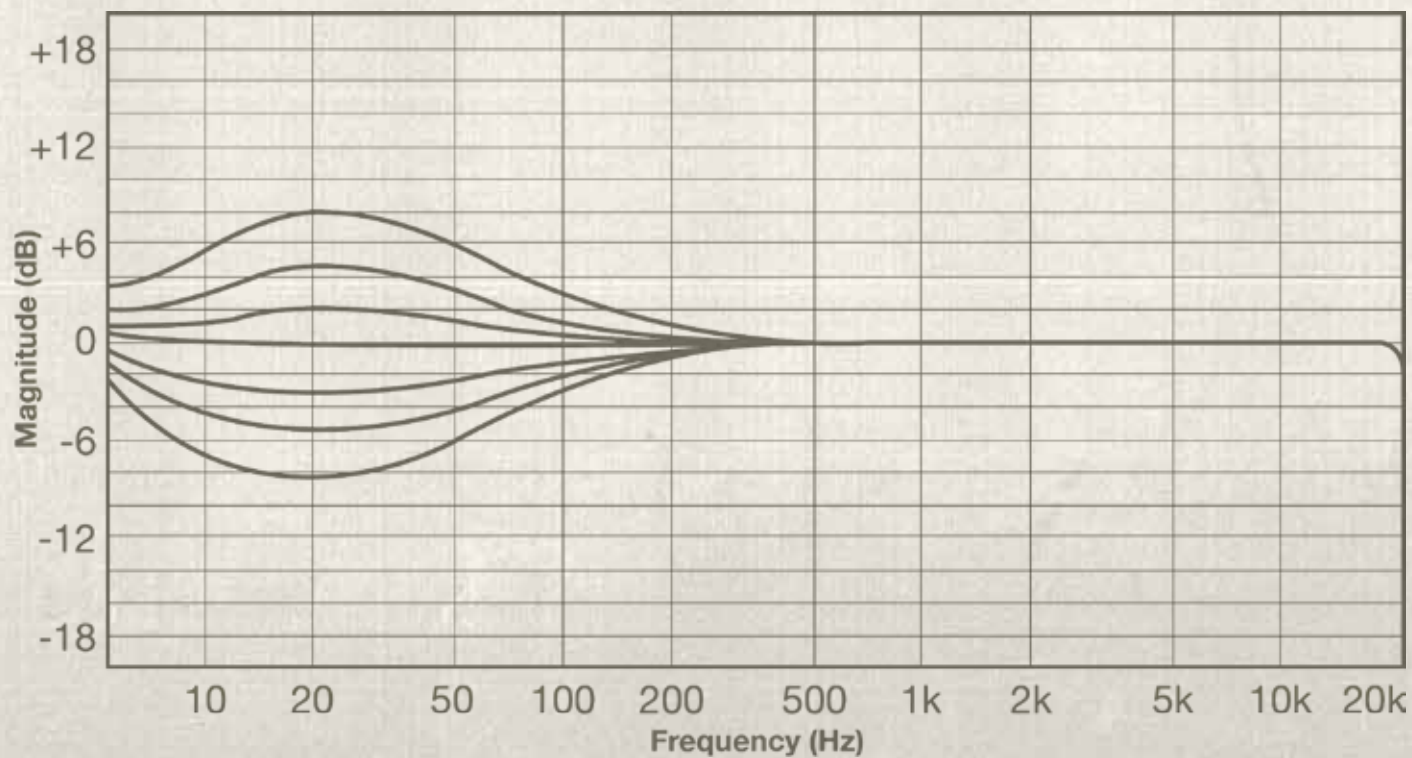
Gain -8,-4,-2,0,2,4,8 / Frequency 21 Hz / Q: 20
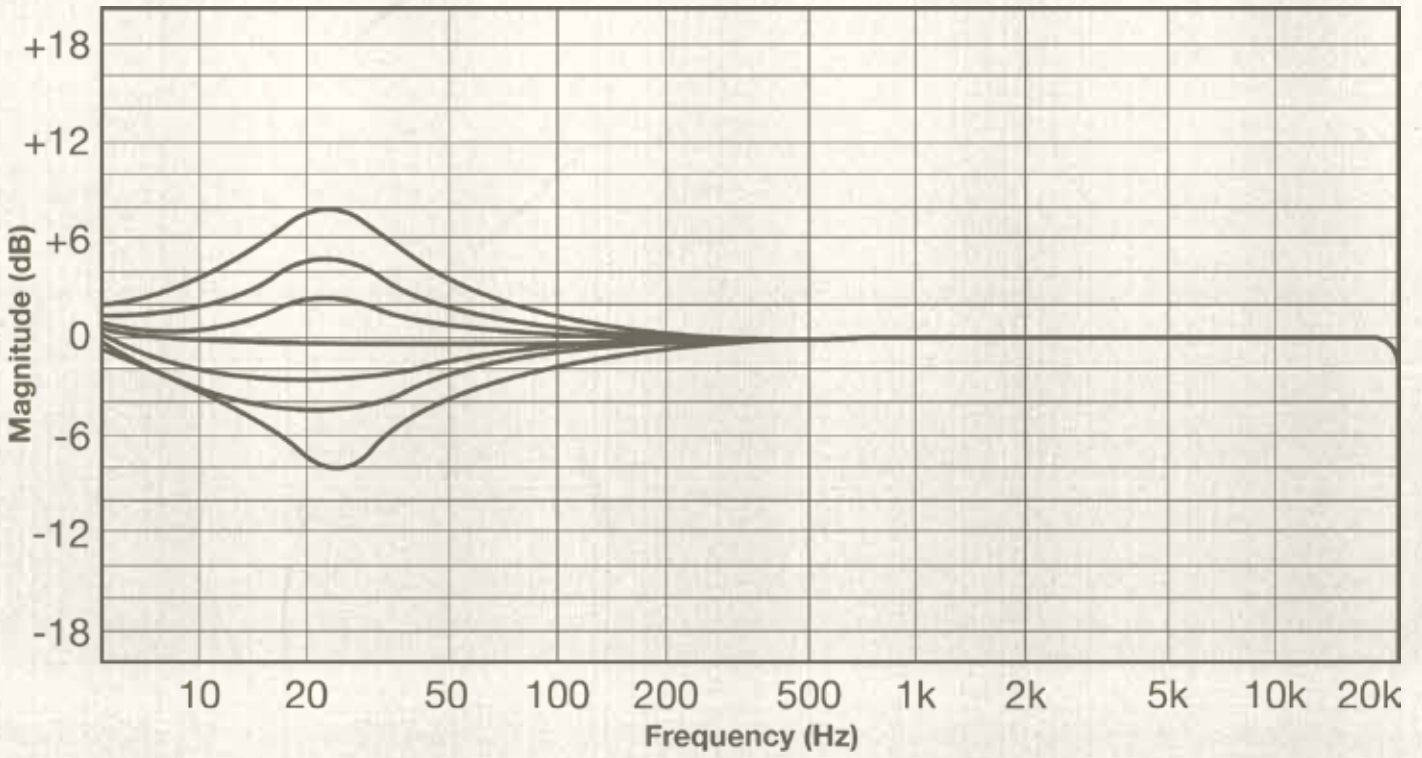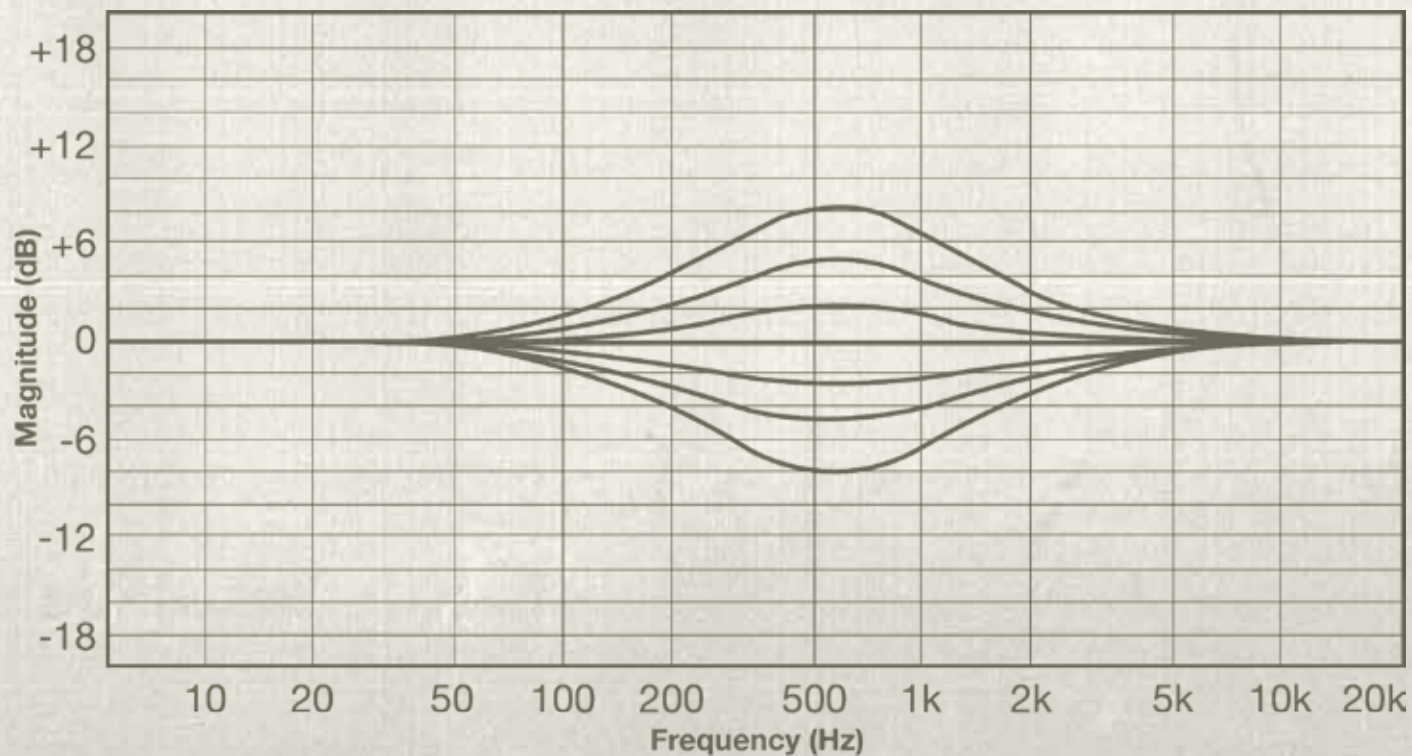
Gain -8,-4,-2,0,2,4,8 / Frequency 21 Hz / Q: 12
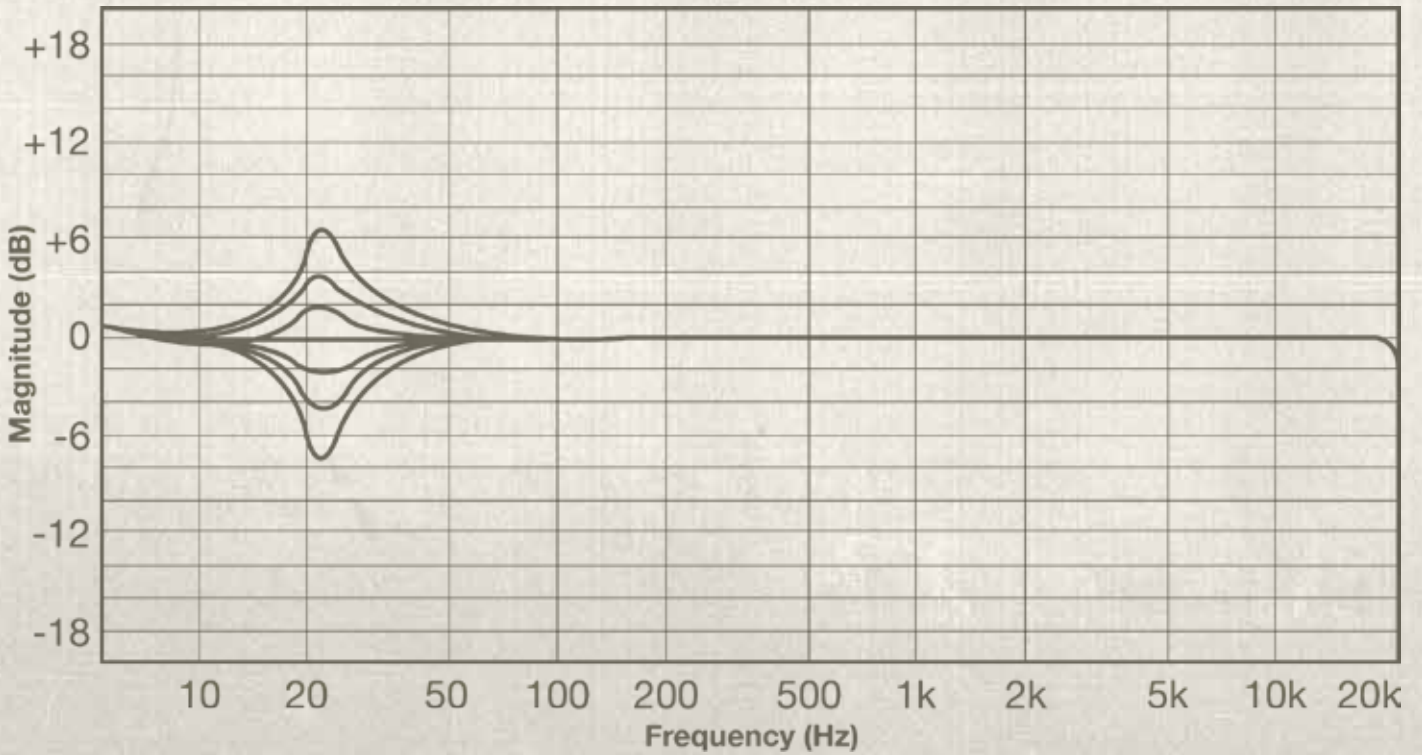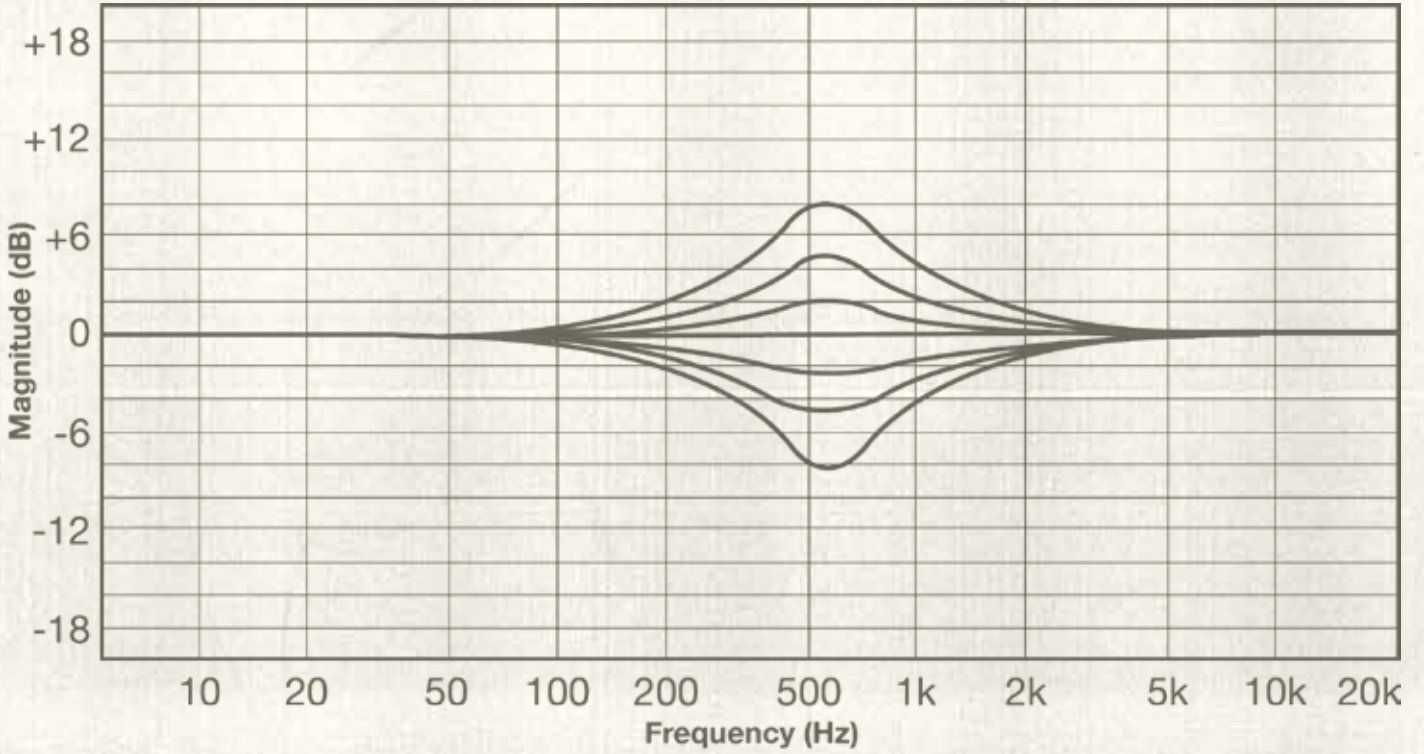

Gain -8,-4,-2,0,2,4,8 / Frequency 21 Hz / Q: 4
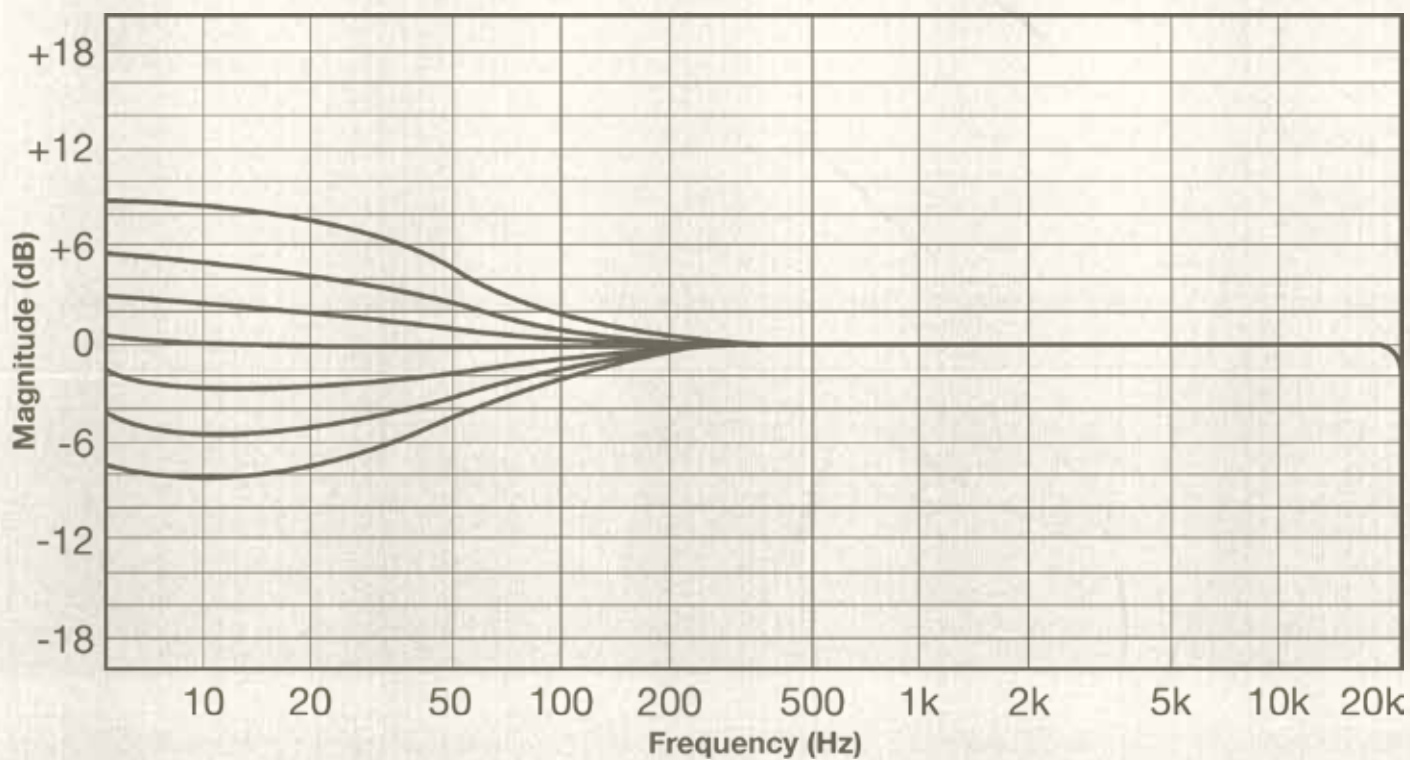
Gain -8,-4,-2,0,2,4,8 / Frequency 108 Hz / Q: shelf
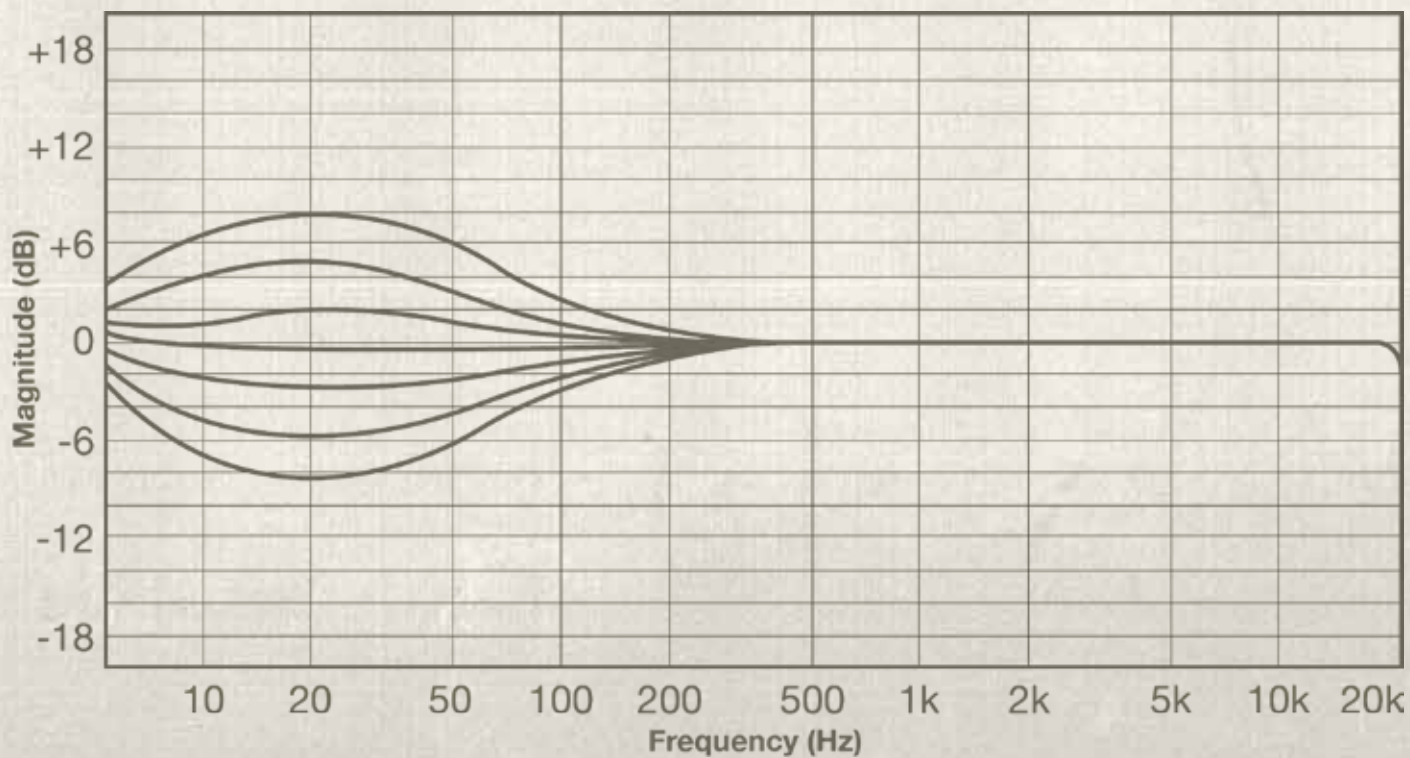
Gain -8,-4,-2,0,2,4,8 / Frequency 108 Hz / Q: 20
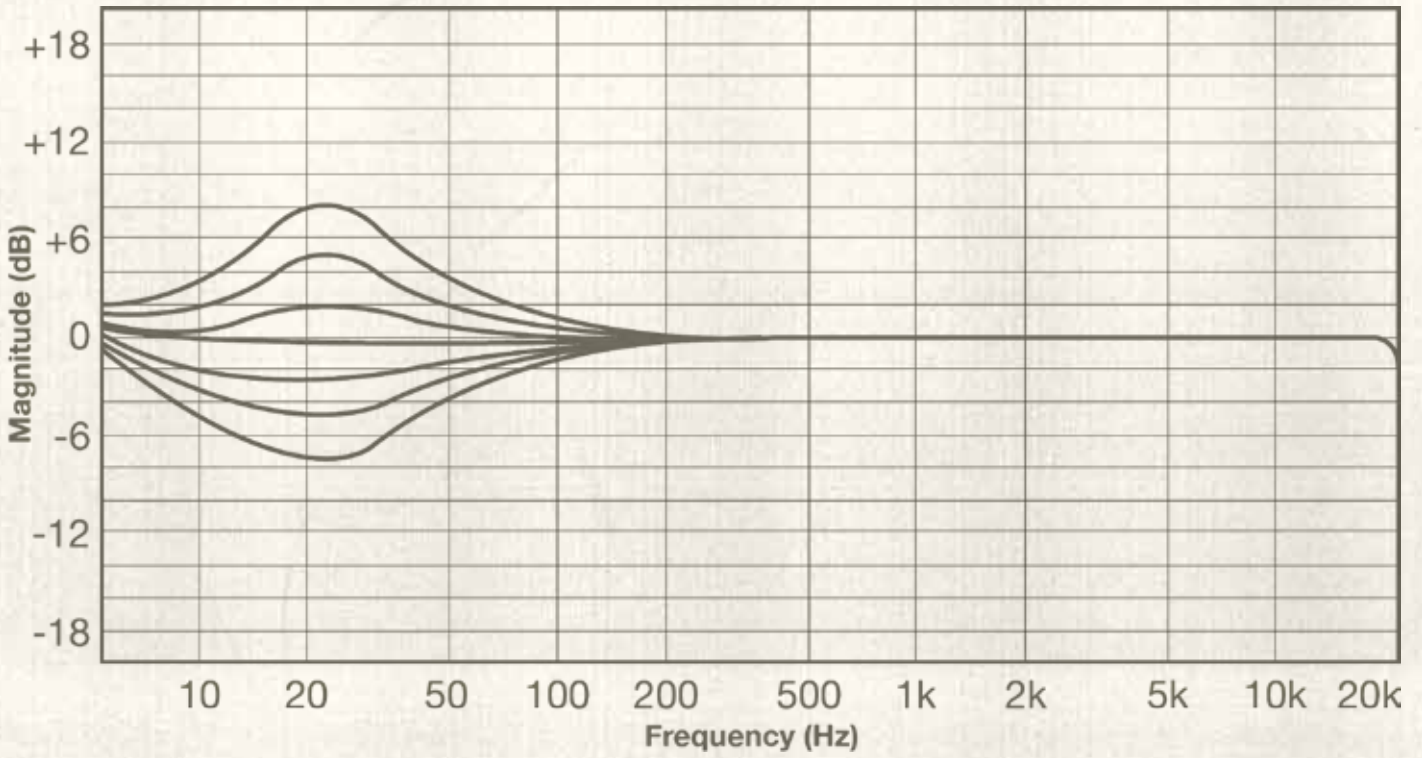
Gain -8,-4,-2,0,2,4,8 / Frequency 108 Hz / Q: 12

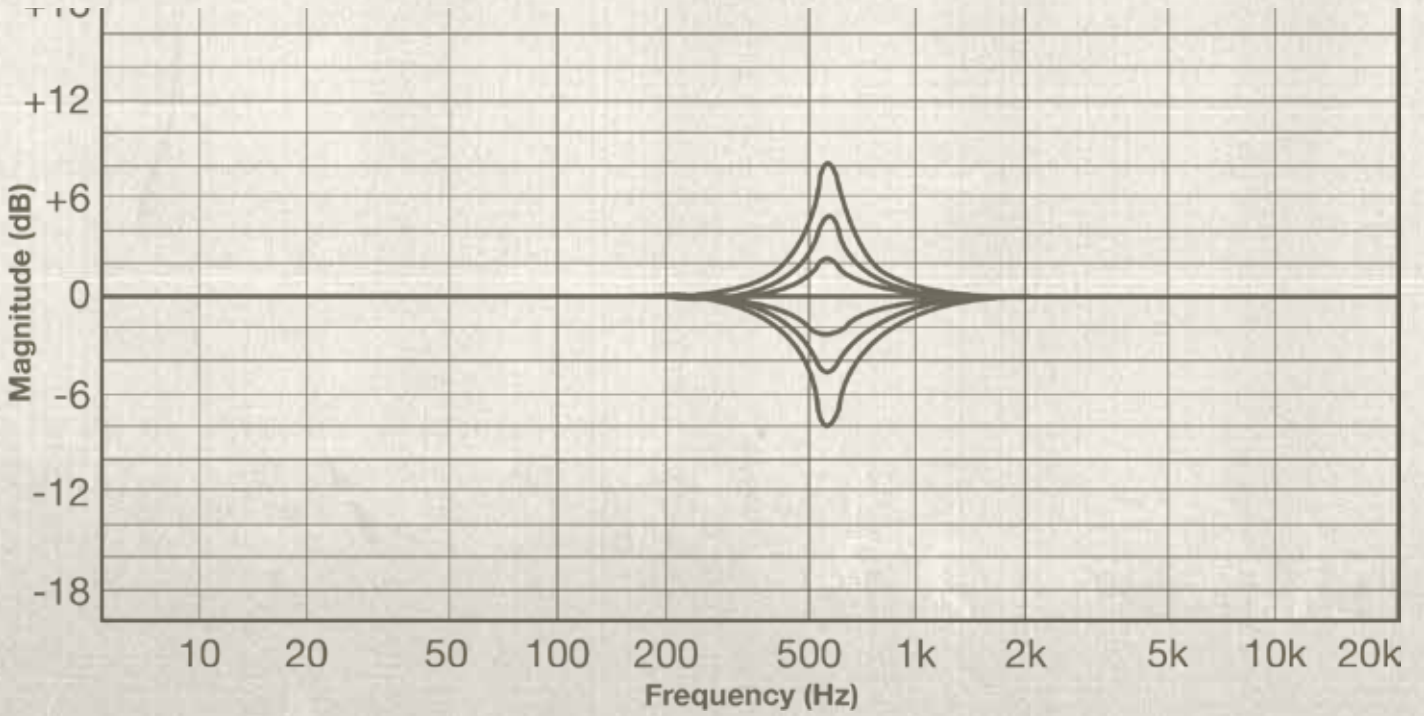Gain -8,-4,-2,0,2,4,8 / Frequency 108 Hz / Q: 4

Gain -8,-4,-2,0,2,4,8 / Frequency 572 Hz / Q: shelf

Gain -8,-4,-2,0,2,4,8 / Frequency 572 Hz / Q: 20

Gain -8,-4,-2,0,2,4,8 / Frequency 572 Hz / Q: 12

Gain -8,-4,-2,0,2,4,8 / Frequency 572 Hz / Q: 4

HIGH MID FREQ

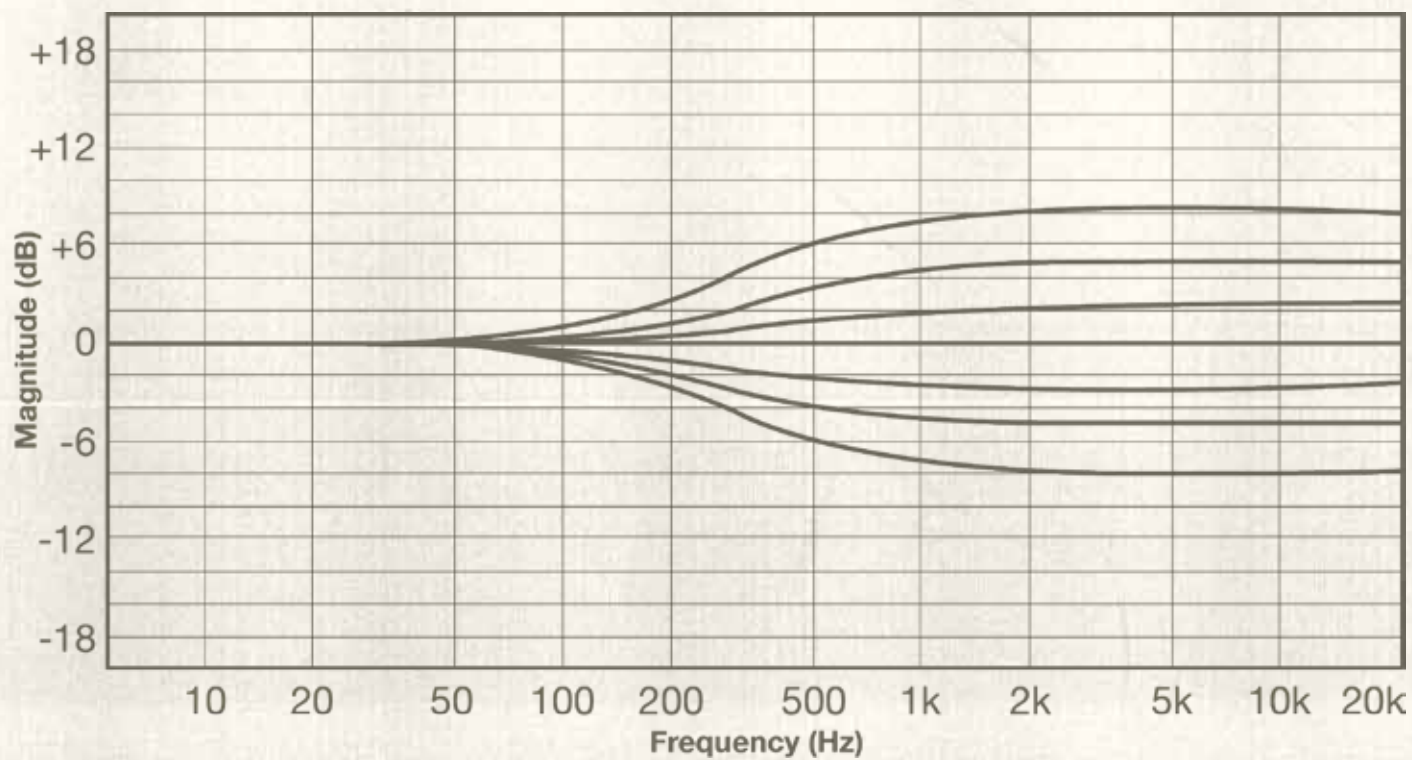Gain -8,-4,-2,0,2,4,8 / Frequency 617 Hz / Q: shelf

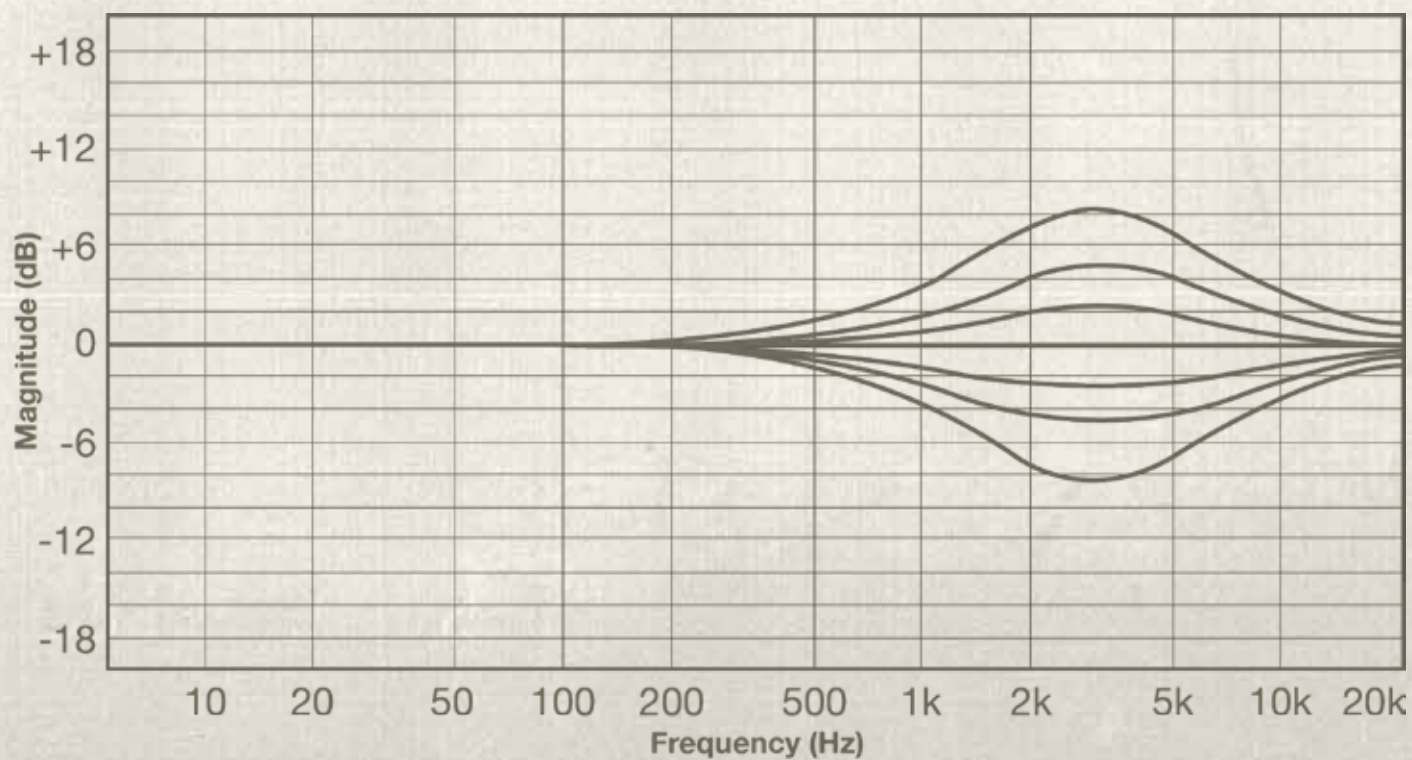Gain -8,-4,-2,0,2,4,8 / Frequency 617 Hz / Q: 20

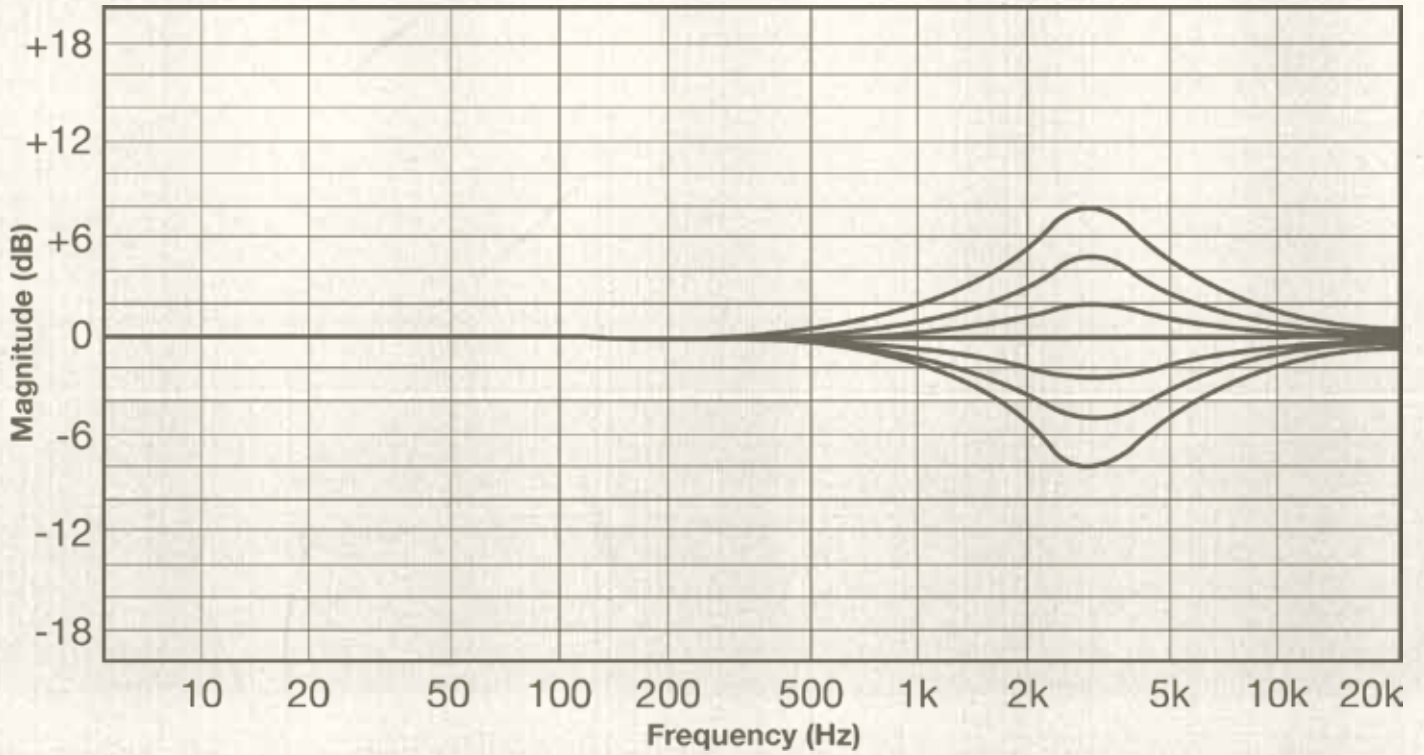Gain -8,-4,-2,0,2,4,8 / Frequency 617 Hz / Q: 12
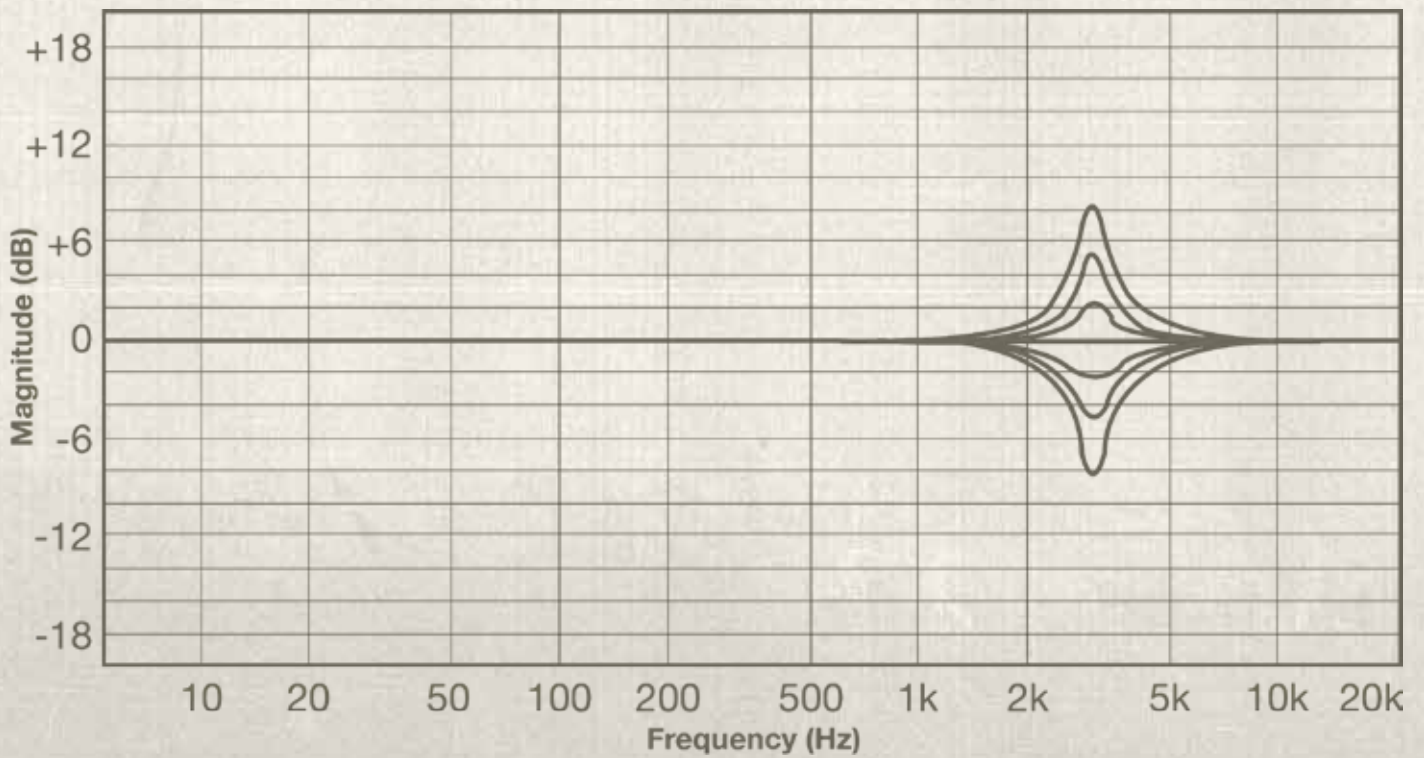

Gain -8,-4,-2,0,2,4,8 / Frequency 617 Hz / Q: 4

Gain -8,-4,-2,0,2,4,8 / Frequency 3,3 kHz / Q: shelf

Gain -8,-4,-2,0,2,4,8 / Frequency 3,3 kHz / Q: 20

Gain -8,-4,-2,0,2,4,8 / Frequency 3,3 kHz / Q: 12

Gain -8,-4,-2,0,2,4,8 / Frequency 3,3 kHz / Q: 4

Gain -8,-4,-2,0,2,4,8 / Frequency 24 kHz / Q: shelf

Gain -8,-4,-2,0,2,4,8 / Frequency 24 kHz / Q: 20

Gain -8,-4,-2,0,2,4,8 / Frequency 24 kHz / Q: 12

Gain -8,-4,-2,0,2,4,8 / Frequency 24 kHz / Q: 4

Gain -8,-4,-2,0,2,4,8 / Frequency 665 Hz / Q: shelf

Gain -8,-4,-2,0,2,4,8 / Frequency 665 Hz / Q: 20

Gain -8,-4,-2,0,2,4,8 / Frequency 665 Hz / Q: 12

Gain -8,-4,-2,0,2,4,8 / Frequency 665 Hz / Q: 4
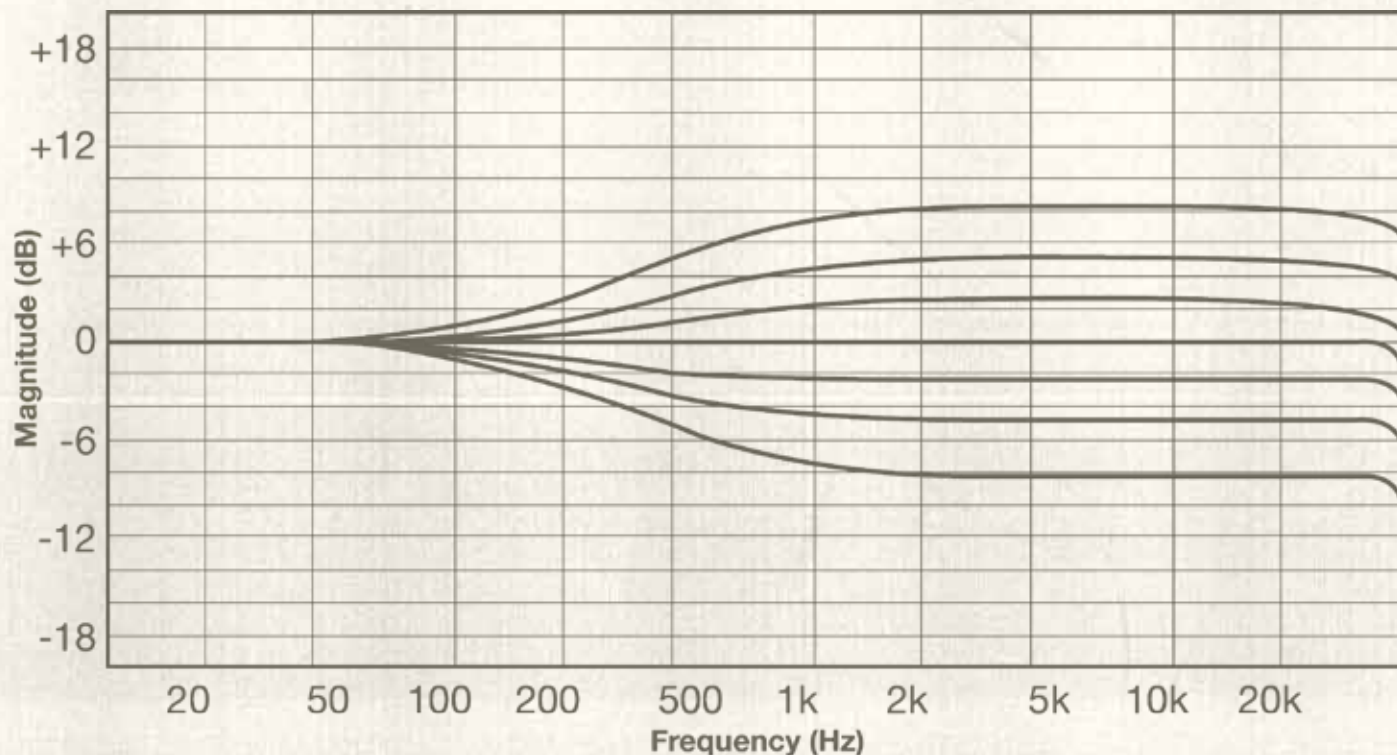
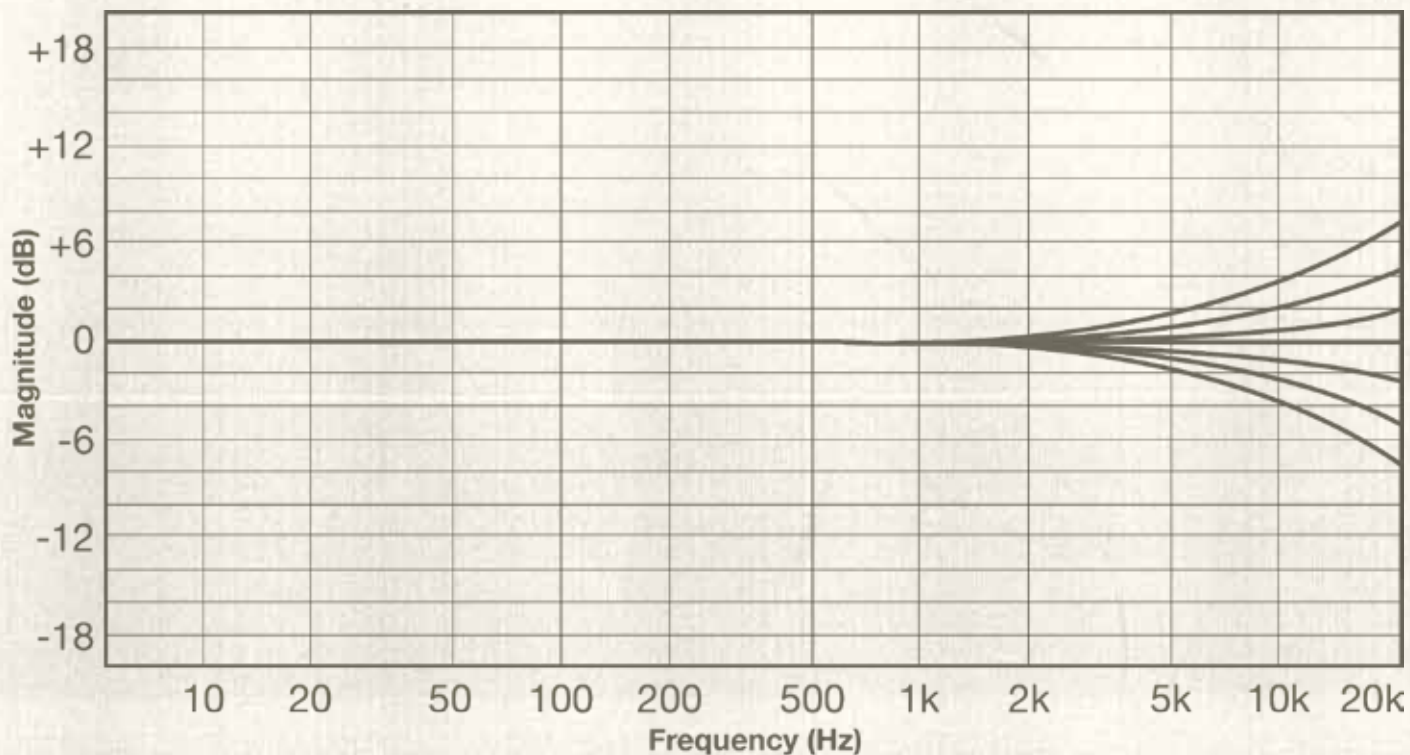Gain -8,-4,-2,0,2,4,8 / Frequency 3,6 kHz / Q: shelf
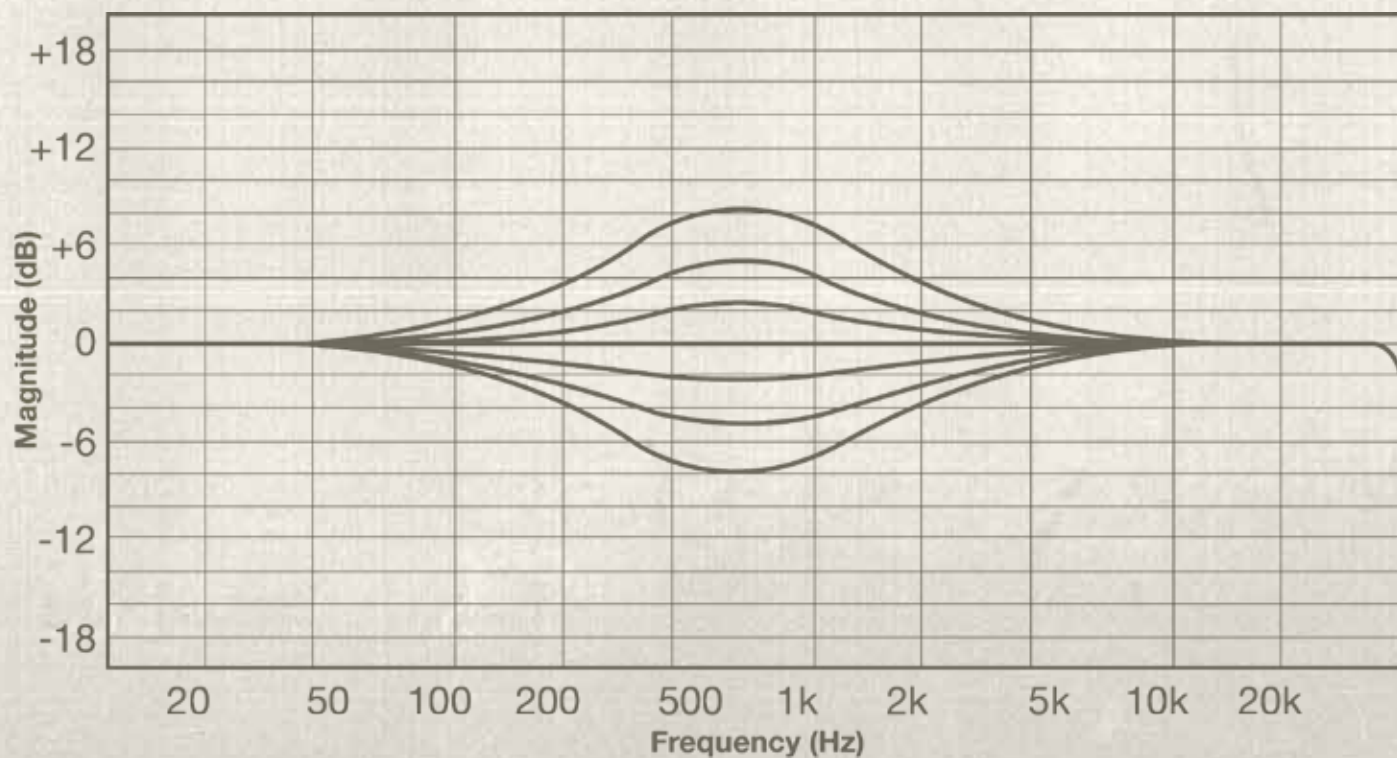
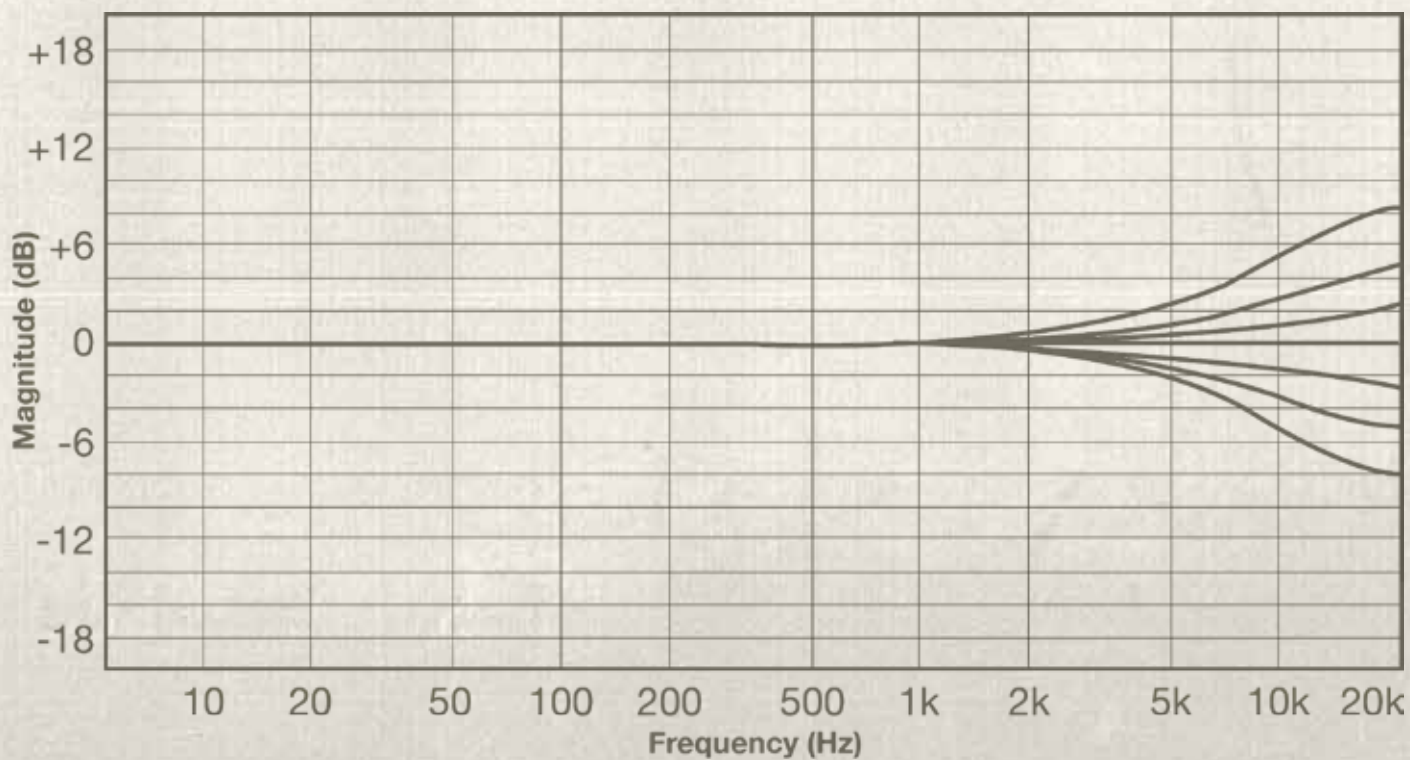Gain -8,-4,-2,0,2,4,8 / Frequency 3,6 kHz / Q: 20
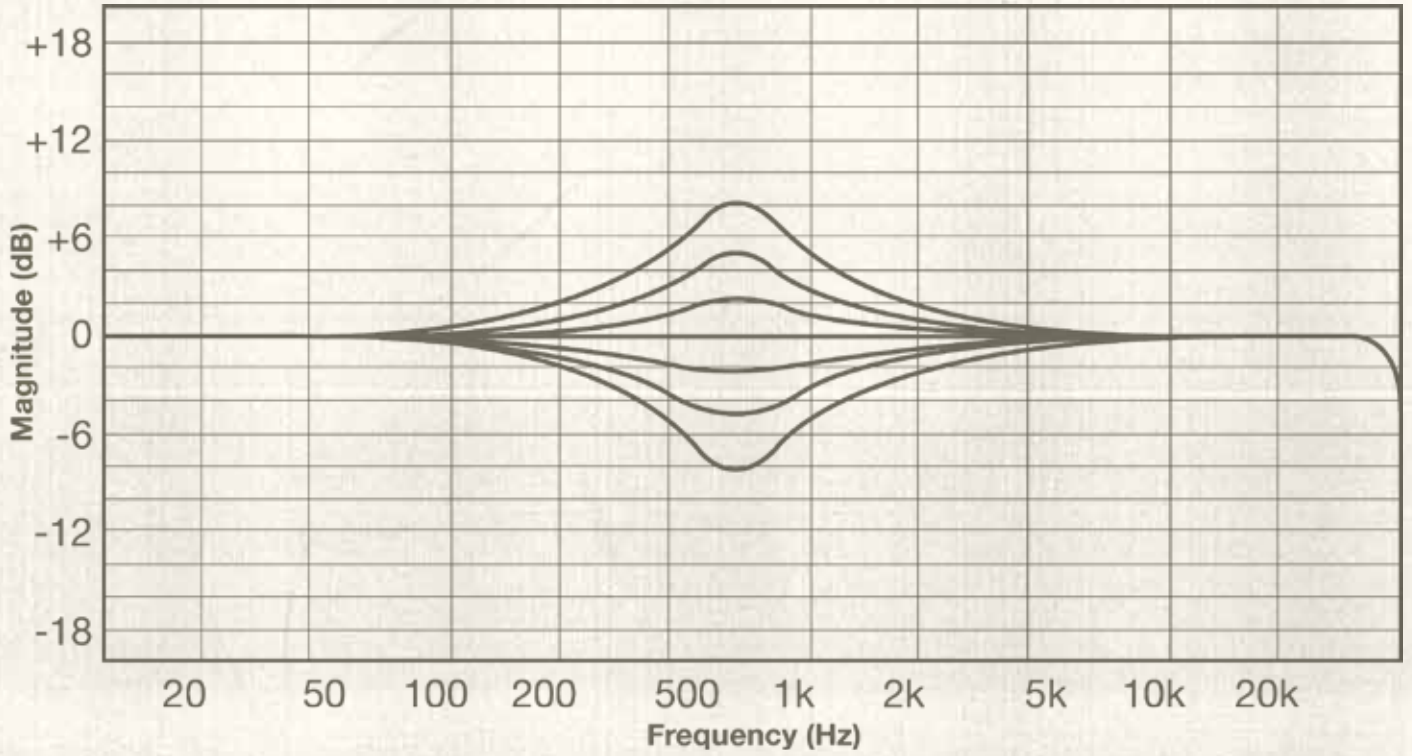
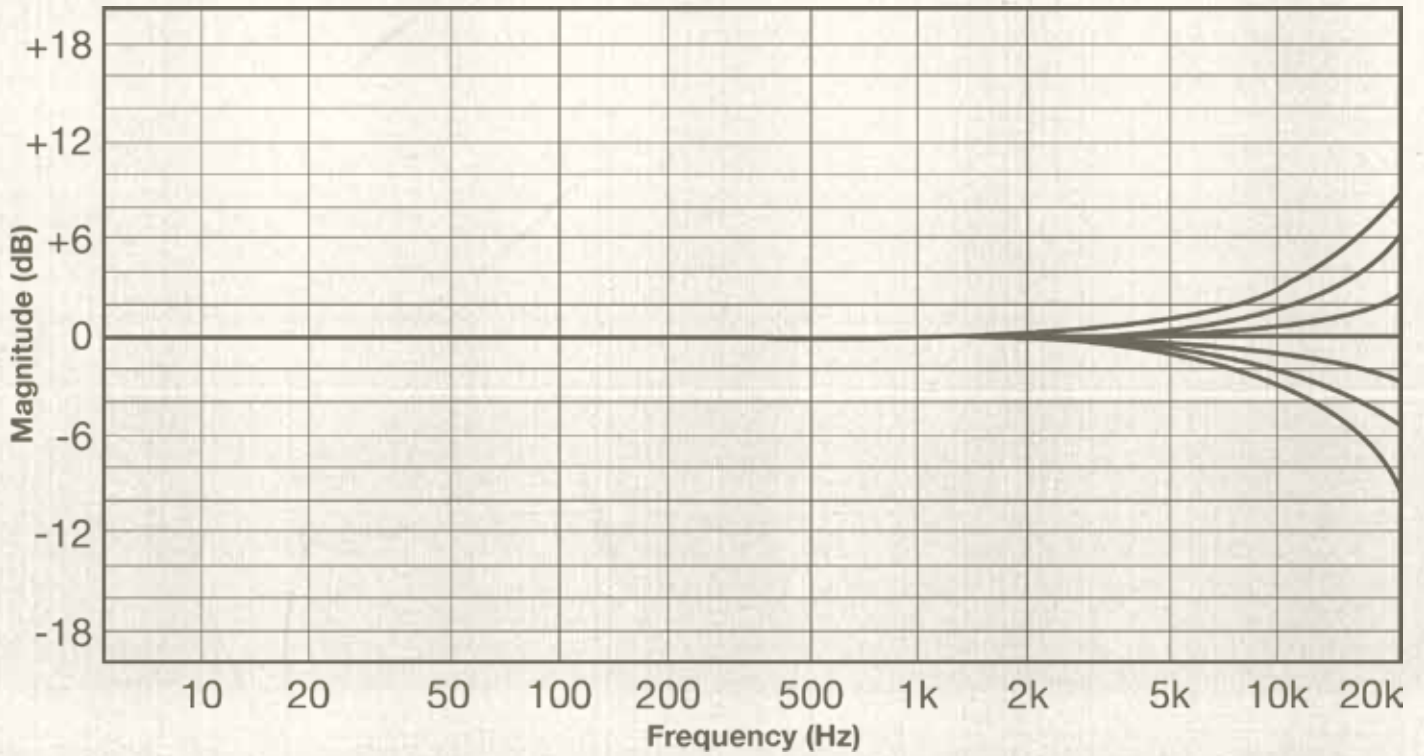Gain -8,-4,-2,0,2,4,8 / Frequency 3,6 kHz / Q: 12
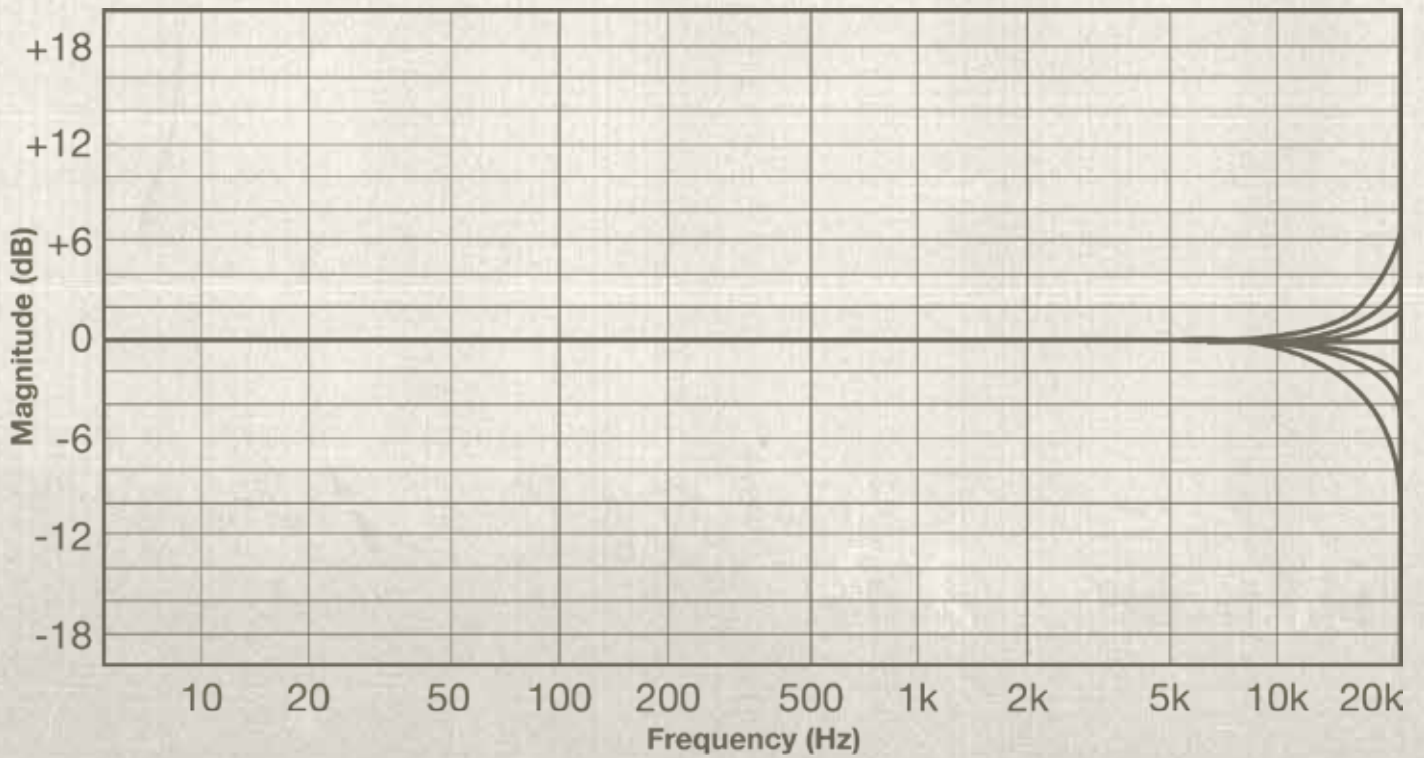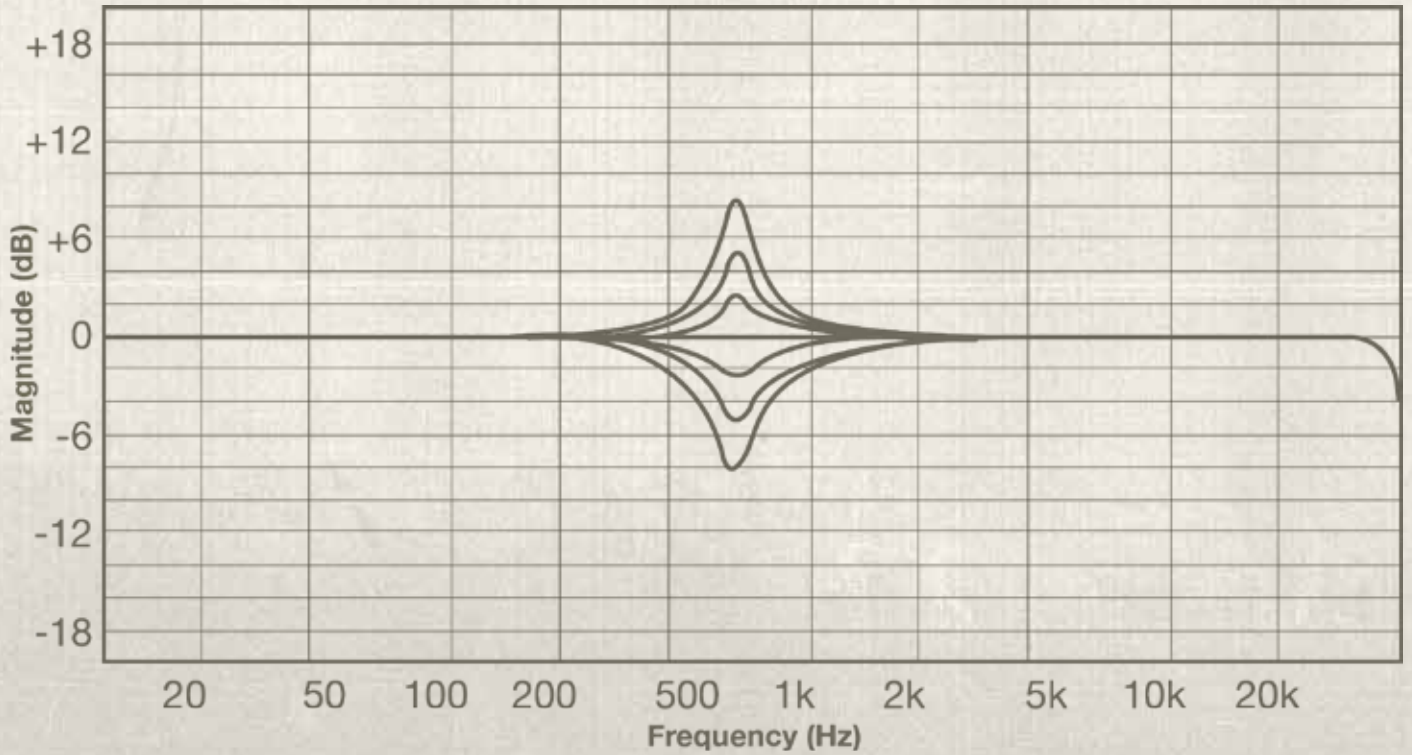

Gain -8,-4,-2,0,2,4,8 / Frequency 3,6 kHz / Q: 4
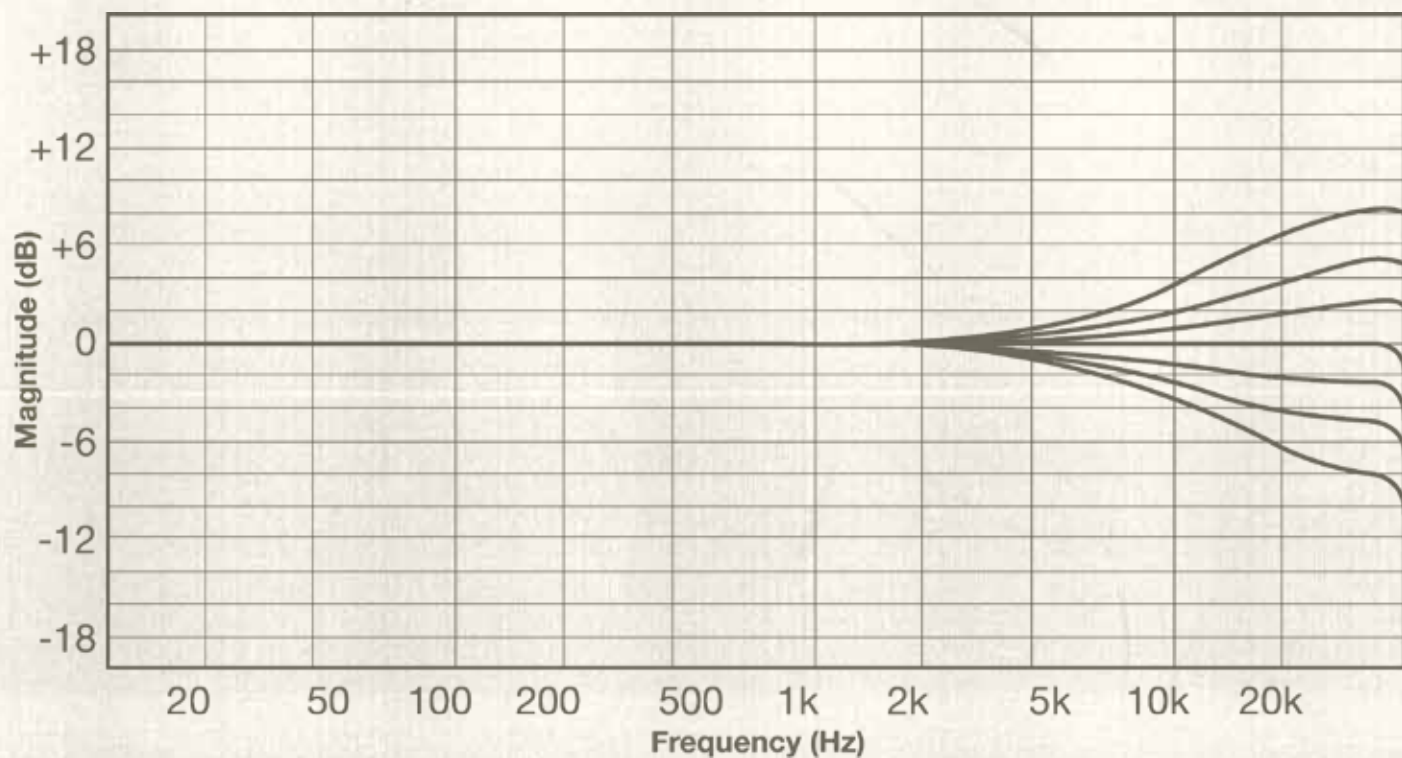
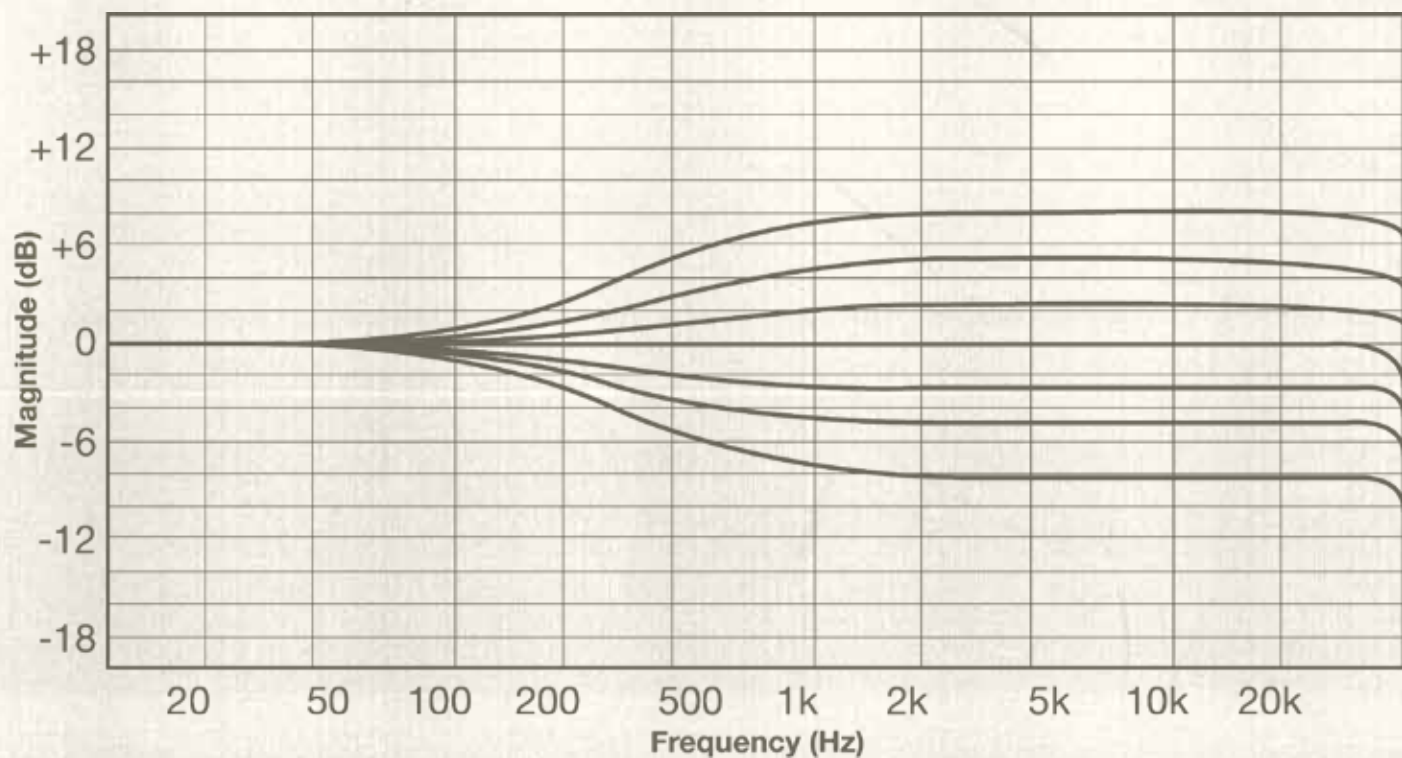Gain -8,-4,-2,0,2,4,8 / Frequency 27 kHz / Q: shelf
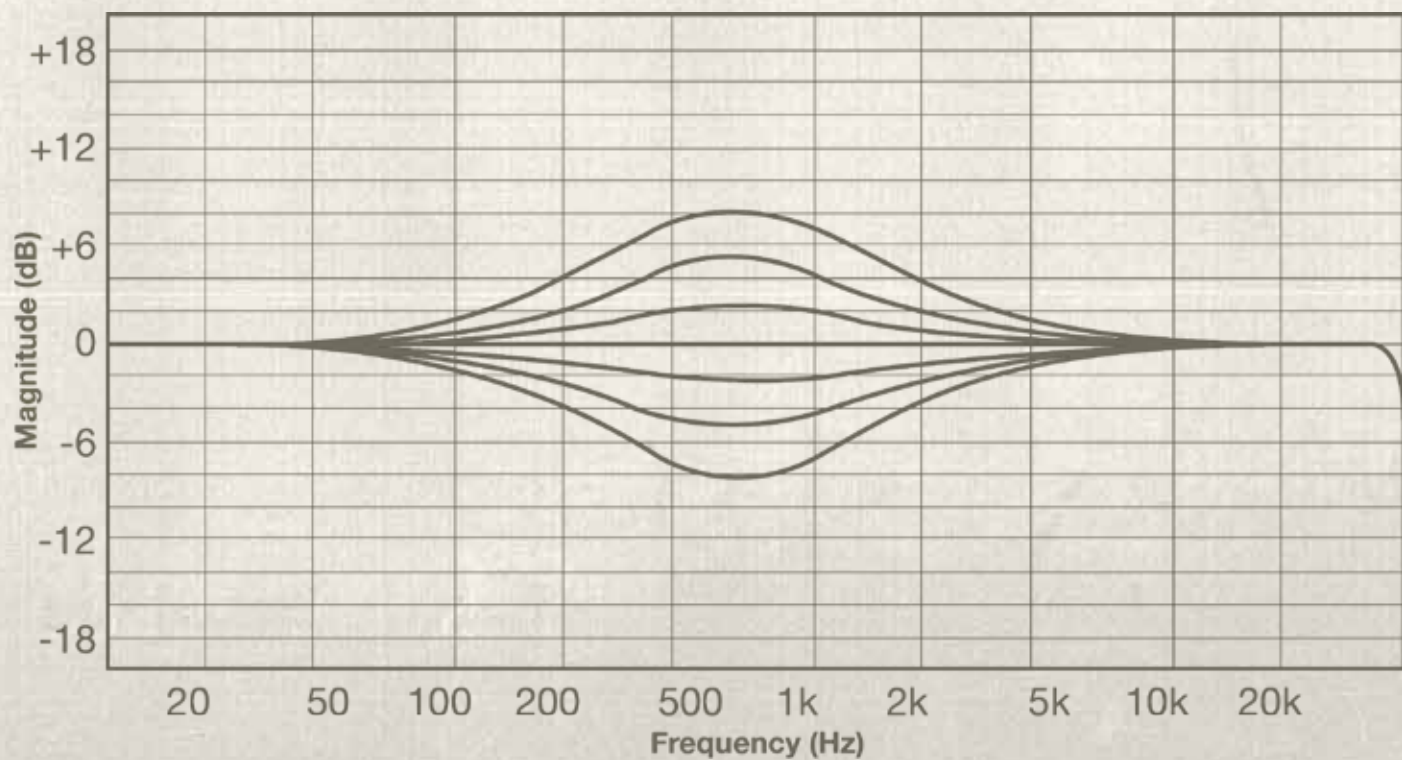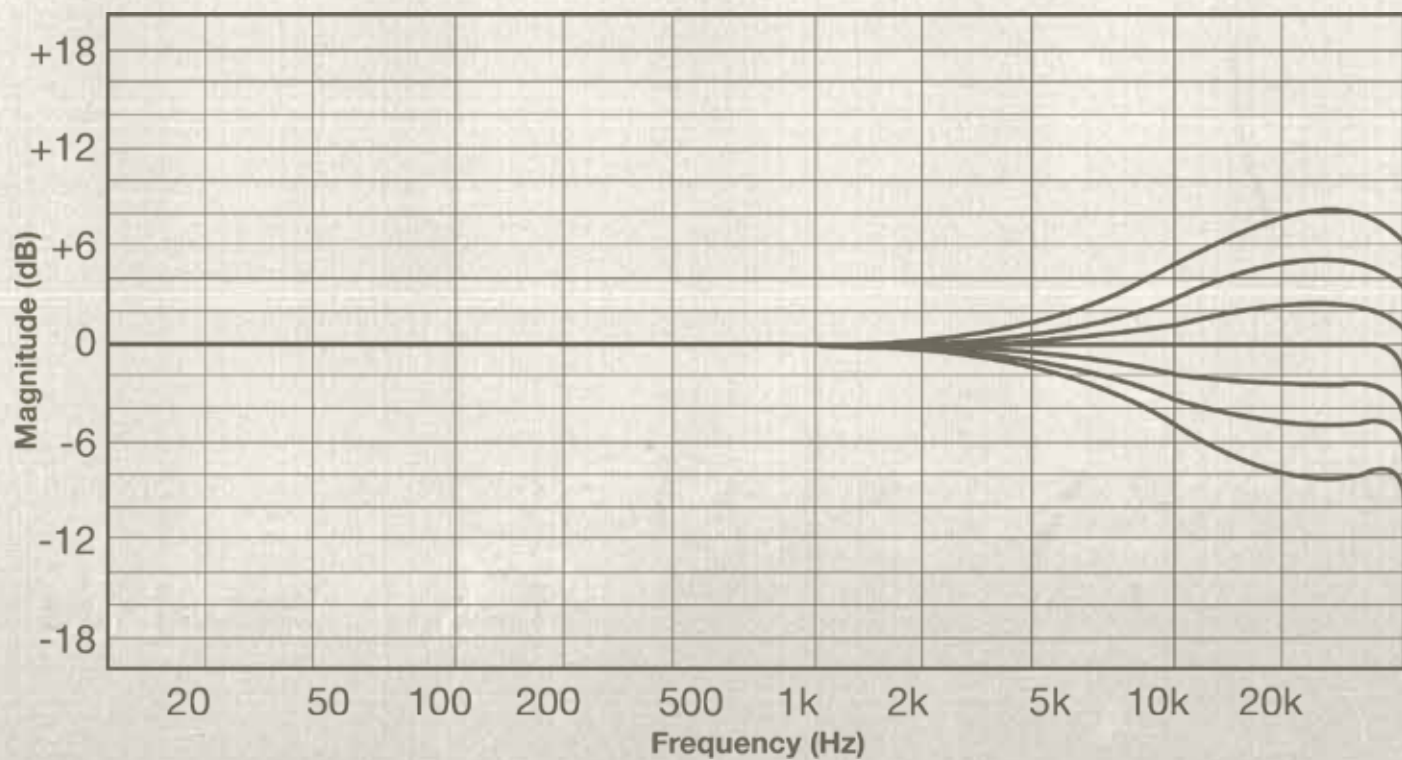

Gain -8,-4,-2,0,2,4,8 / Frequency 27 kHz / Q: 20
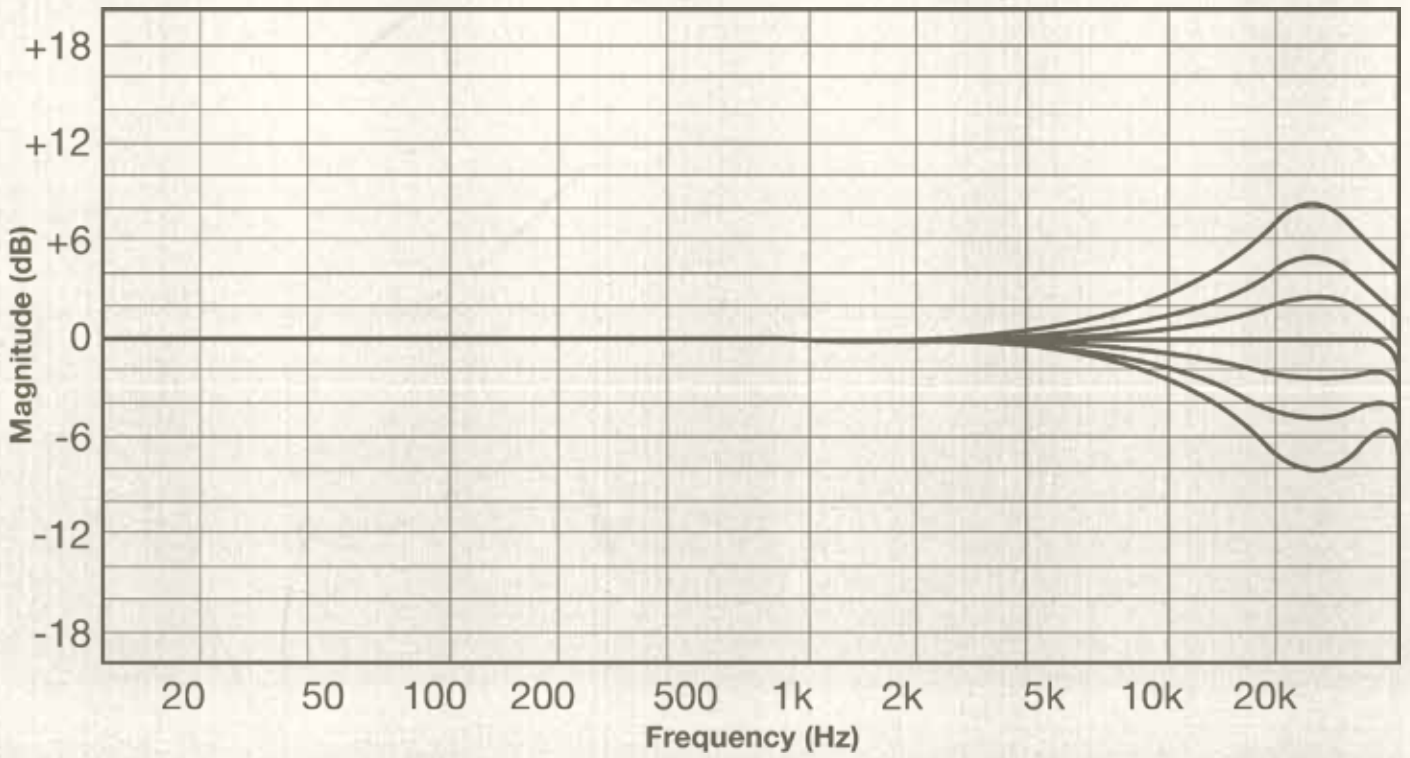
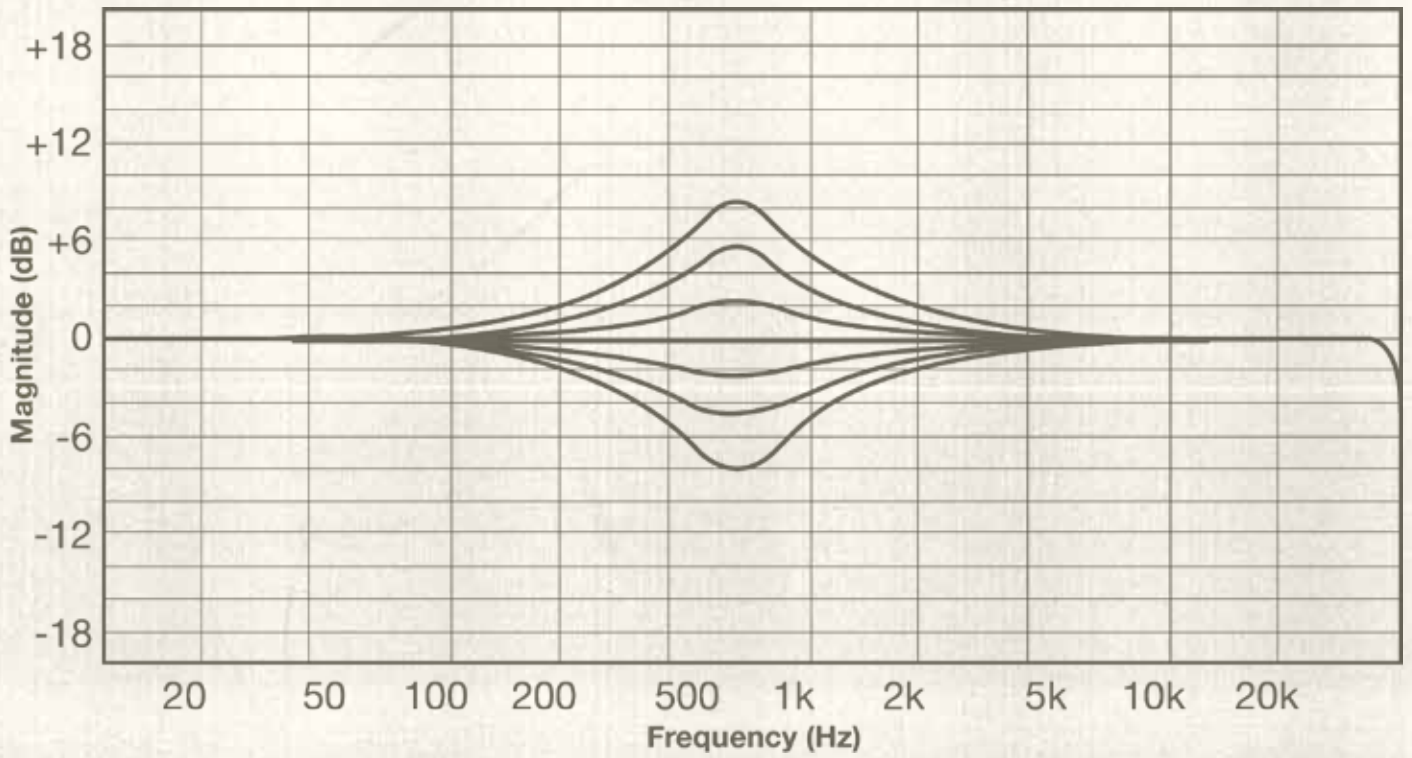Gain -8,-4,-2,0,2,4,8 / Frequency 27 kHz / Q: 12
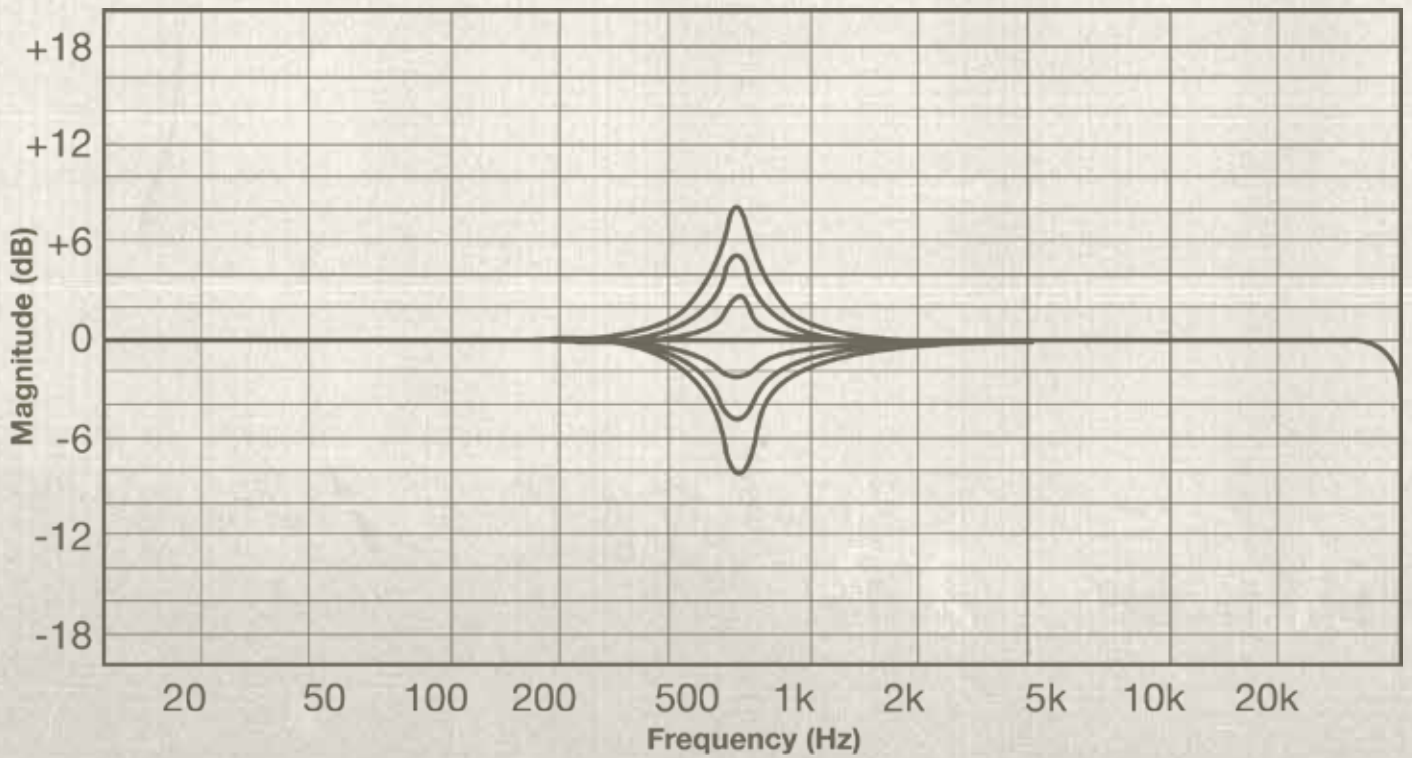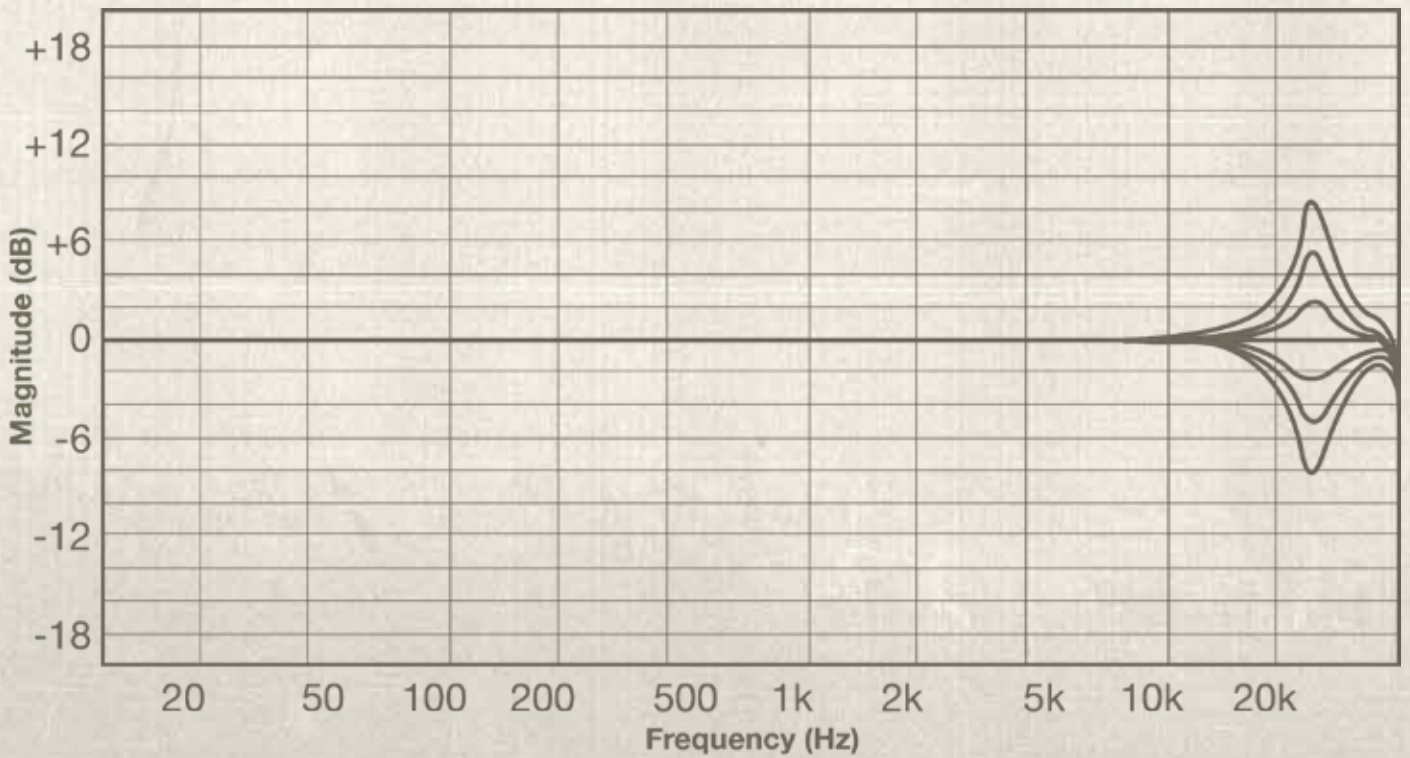

Gain -8,-4,-2,0,2,4,8 / Frequency 27 kHz / Q: 4

PREAMP
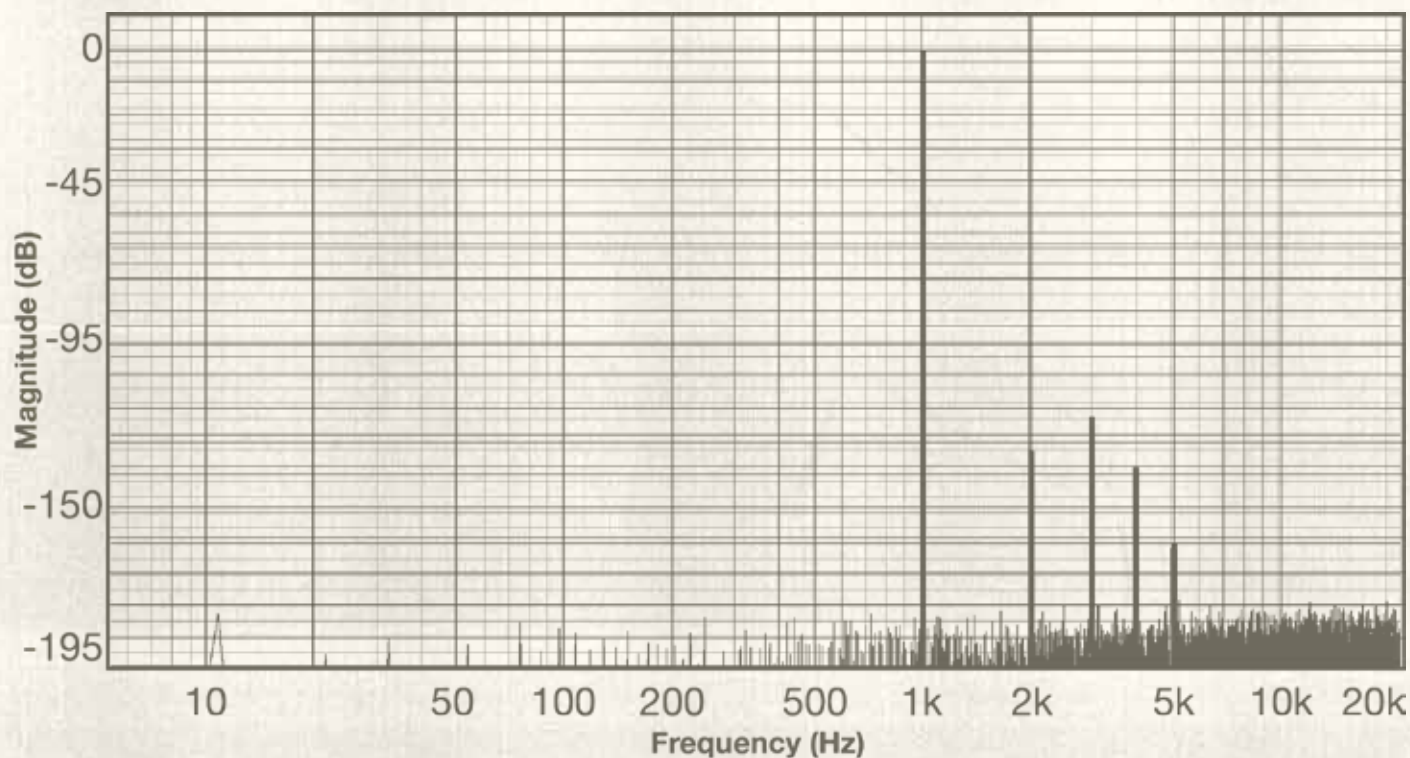
Press the PRE-IN button to activate the PREAMP.
It is characterized by a relatively low harmonic distortion.
This preamp gives the tone color of the original hardware modelled in IVORY3 (EQ).

5.4   Compressors: Ivory MAC-2 / Ivory MAC-3

IVORY3 suite is equipped with 2 different compressors, IVORY3 MAC-2 single band and
IVORY3 MAC-2 multiband comp. The multiband compressor is a faithful emulation of units
built by a celebrated UK company offering an accurate reproduction of the original device.
The 1 band compressor derived directly from multiband compressor, it's added to this pack
to give to all customers a complete bundle. We've chosen to sample the best units in cir-
culation to provide you with the perfect solution.

Ivory3 Comp 1 band

IVORY3 MAC-2 1band is a high performance compressor, it's in INSANE mode of default
and it's equipped by the following controls:

BYP: pushing this button the compressor is bypassed.

SC button: this button engages the external side-chain of the compressor.

OVER led: this led shows the peak clipping.

CLIPPER: push the red button to engage the"clipper"of the plugin , it helps us raising the overall volume retaining the (perceived) shape of the transients emulating the analog console saturation behavior when it reach the limit (0 dB), It hasn't oversampling so it could be present aliasing.

CLIPPER led: introduced to help minimize digital overs.

 EXP: this button engages the EXPANDER of the plugin. it was obtained as a ratio reversal (no sampling of another machine). Thanks to the predictable ratio of the original sampled hardware we are sure the expansion behaviour of the plugin is correct.

ATTACK: sets the compressor's attack time, ranging from 1 ms (fast) to 200 ms (slow);

RELEASE: sets the compressor's release time, ranging from 0.1 S (fast) to 3.2 S(slow);

SHMOD: controls the shape of the compressor's attack curve. It allows you to fine-tune the attack behaviour, in order to adapt it to any audio source.

THRESHOLD: sets the threshold of the compressor, ranging from -40 dB to +10 dB;

MIX: it determines the mix proportion between the original (dry) and 'effected' (wet) signals. Here you'll find a very powerful and simple-to-use feature.

OUTPUT: sets the output gain compensation (MAKEUP), in order to match the level of the compressed signal with the original.

RATIO: This knob set the compression ratio, available values range from 1:1 to 6:1.

FILTER: this knob allows to manage IRR sidechain filter includes in this new compressor; working in External sidechain mode so it doesn't affect the direct audio signal.
The frequencies range(Hz): OFF (bypass); 40 to 300.

IVORY MAC-2
The compressor

GAIN REDUCTION METER: measures the reduction level applied by compressor. The meter indicates '0' in the absence of an input signal or any gain reduction. If the signal exceeds the compression threshold or limit level, the amount of gain reduction is shown.

INPUT – OUTPUT METERS measure the input and output levels of the plug-in.

Ivory3 Mac-3 Multi-Band Compressor is the multiband compressor version of Ivory3 MAC-3 (single band), so each channels can be controlled by an identical set of controls. The input signal is split into three different frequency-bands.

Each band is passed through a stereo comp where gain and compression can be altered. The outputs of the compressors are then re-combined and fed to the outputs. The frequency-band compressors have separate controls so that different parts of the audio spectrum can be adjusted and tuned. The original device (as this plugin) is usually used to compress up to 8 dB especially for the mastering, in our opinion we believe that it's the correct way to use it, nevertheless Acustica decided to extend the compression range of this plugin until 40 dB.

PRE: Pressing this button to activate the PREAMP of the plug-in.

FILTERS: This compressor is equipped by a Crossover Frequencies section. The crossover between the frequency bands can be set to four different frequencies (from 100 Hz to 800 Hz) for both the lower and higher transitions. These filters are passive with 6 dB/octave slopes designed and sampled by Sound Drops (Stefano Dall'Ora) to guarantee the best precision.

INPUT (LEFT/RIGHT) : These two independent knobs set the input level from -5dB to +5dB for the LEFT nad RIGHT channel, and is used to control the signal level in the plugin.

OUTPUT: This knob allow to Adjusts the gain for both channels after the compressors (-10dB to +10dB).

THOLD: It's the master threshold of the unit; Use it to set the point at which the three frequency-band thresholds are in convenient positions for the amount of compression that you want.

CLIPPER, OVERLOW, DRY/WET, EXP controls are included in this plugin (operation details in the previous chapter - Ivory3 Comp single band)

BANDS CONTROLS

IN: Press this button for each band to activate the compressor.

ATTACK: This knob sets the compressor's attack time; Ranges from 1 mS (fast) to 200 ms (slow).

RELEASE: This knob sets the compressor's release time that ranges from 0.1 S (fast) to 3.2 S (slow).

IVORY MAC-3
The multiband compressor

RATIO: This knob sets the compression ratio in 6 steps, available values range from 1:1 to 6:1.

MAKEUP: Sets the output gain compensation (from 0 dBto 10 dB), in order to match the level of the compressed signal with the original.

TRIM LOW/MID/HIGH: These independent controls determine the amount of Threshold for each band.

METERS: There are three columns of meters, the first one measures the relative band RE-DUCTION level, the second one measures the INPUT level and the third one measures the OUTPUT level applied by the compressor. Each band has its set of meters, independent of each other.

IVORY3 COMP 3B (MAC-3) DETAILS:

Use the "THOLD" (Threshold) control to adjust the general sensitivity of the compressor to the input signal (from -30 to +10 dB). In case little adjustments of the tonal balance are needed, use the TRIM knobs (TRIM LOW/TRIM MID/TRIM RIGHT) for each band; the TRIM knobs may be considered as independent addictional threshold controls (from -10 to +10 dB), useful for small tonal refinements. Use the Dry/Wet control to adjust the balance between the original (dry) and effected (wet) signal; it's a general control and works on all the bands at the same time. The INPUT level is controlled by two separate (Left/Right) knobs before it reaches the compressor input.

Please note:
this plugin doesn't have an input trim, so each time the input level is altered, the output level of the signal must be manually re-adjusted with the OUTPUT knob (ranging from -10 to +10 dB). The finest accuracy of intervention is achieved by choosing a suitable crossover frequency (FILTER knob). These are passive 6 dB/octave filters built and sampled by SoundDrops (Stefano Dall'Ora), they are expressly designed to guarantee the best frequency and phase behavior at their crossover points.

NB:
As already mentioned above, this plugin/unit is typically used in mastering situations: it isn't designed with aggressive compression in mind, but it excels in small dynamic adjustments (max +/-8 dB).

Ivory3 Comp 3B (MAC-3) includes PRESETS!
If the preset list doesn't appear (as default) in your plugin, it is necessary to download the addictional package ("IVORY3…"PRESETS.N2S) from the "Installers Folder" in our website. After the download, please put this .N2S in the same folder containing the default .N2S.
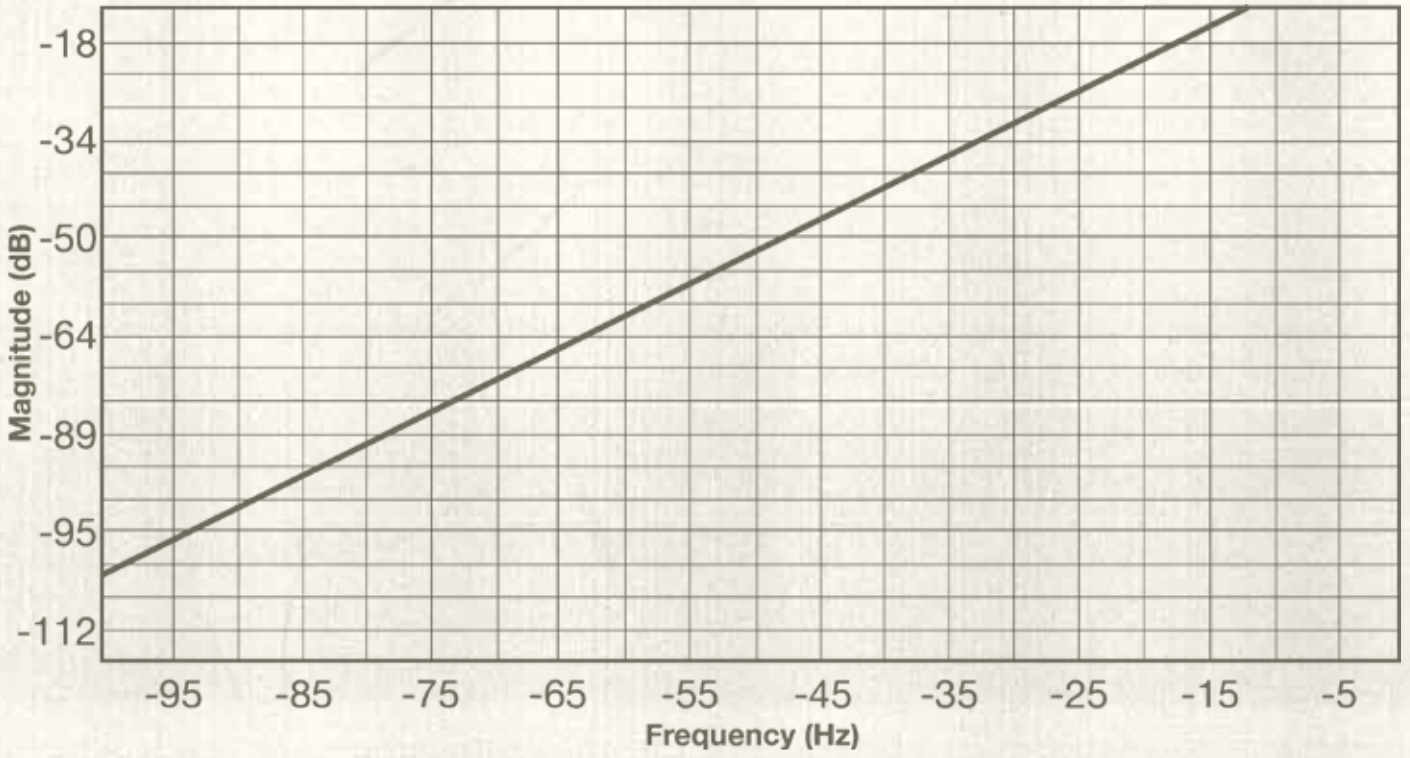
Ratio 1:1
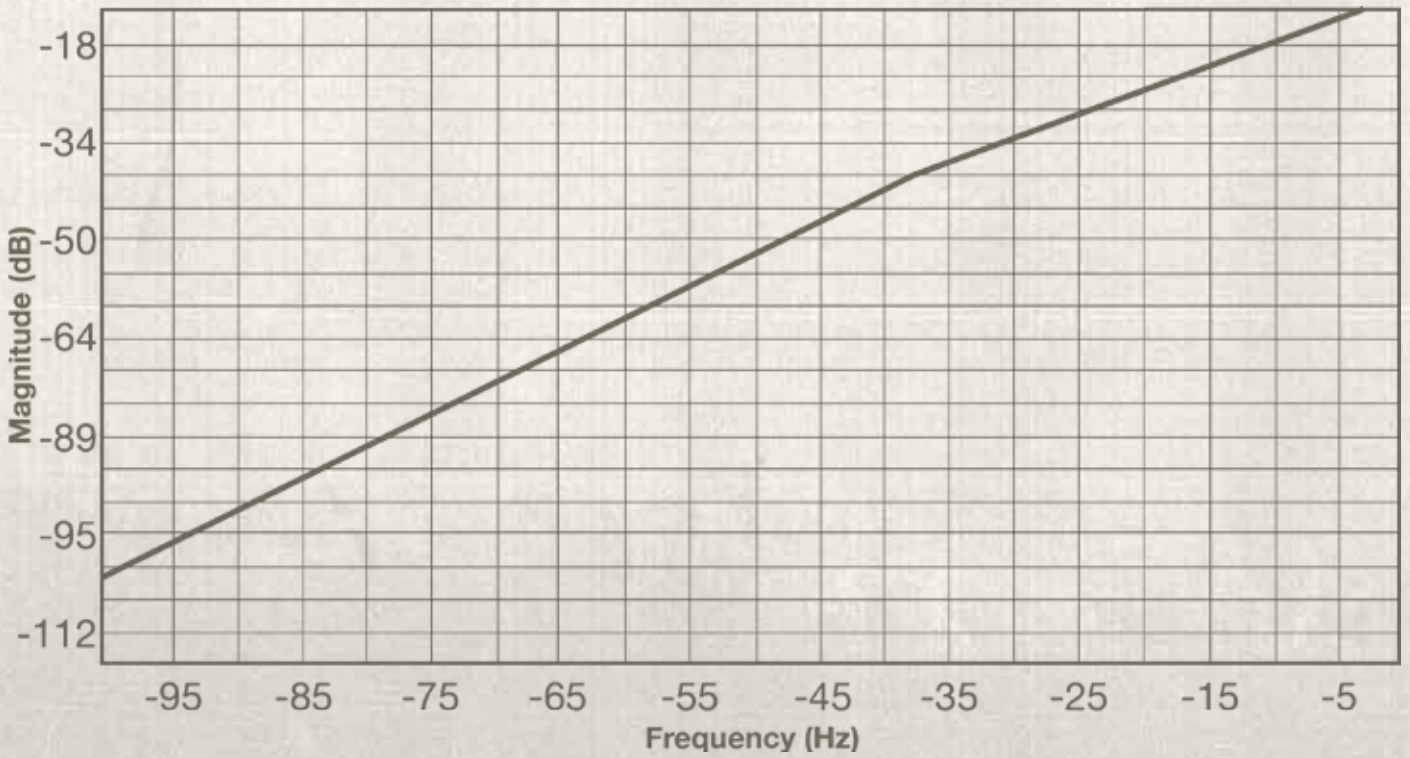
Ratio 1:4
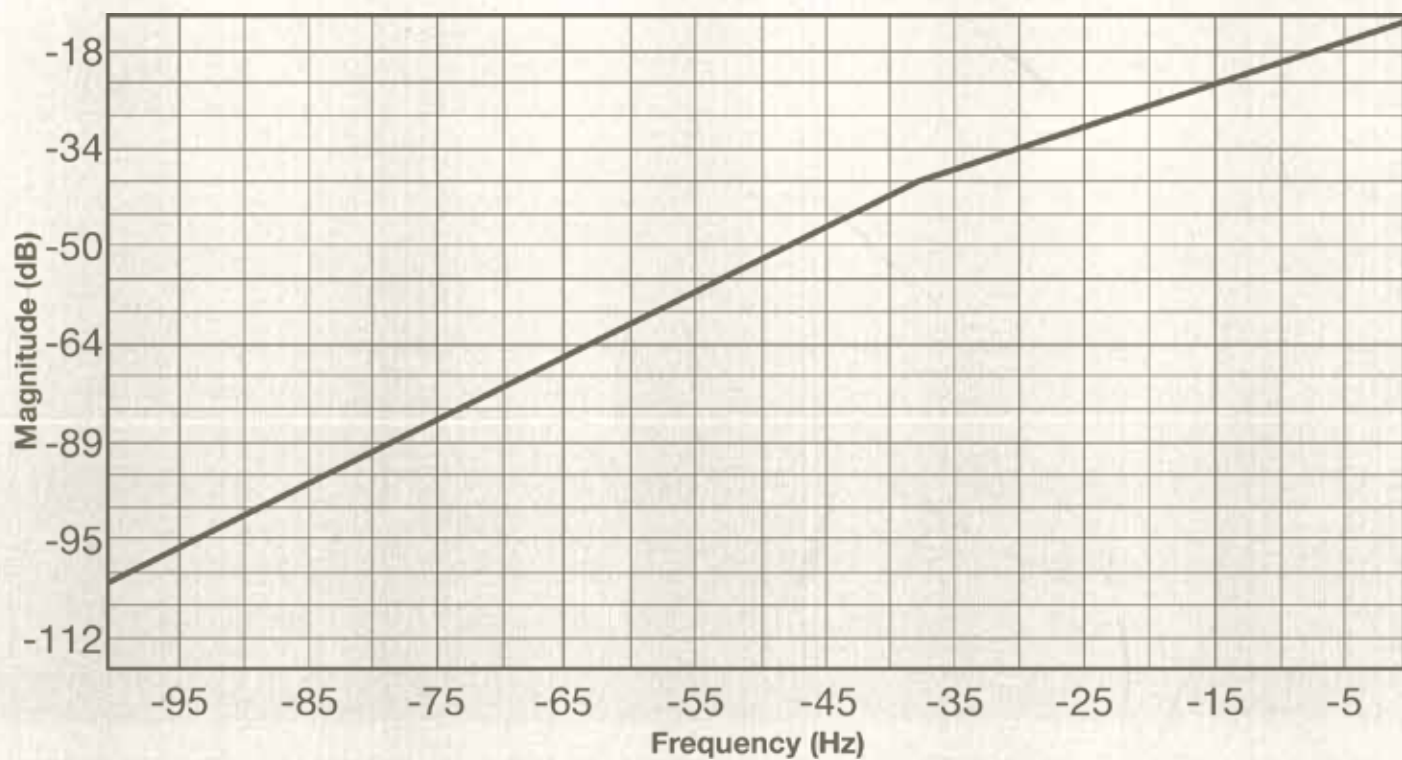
Ratio 1:6
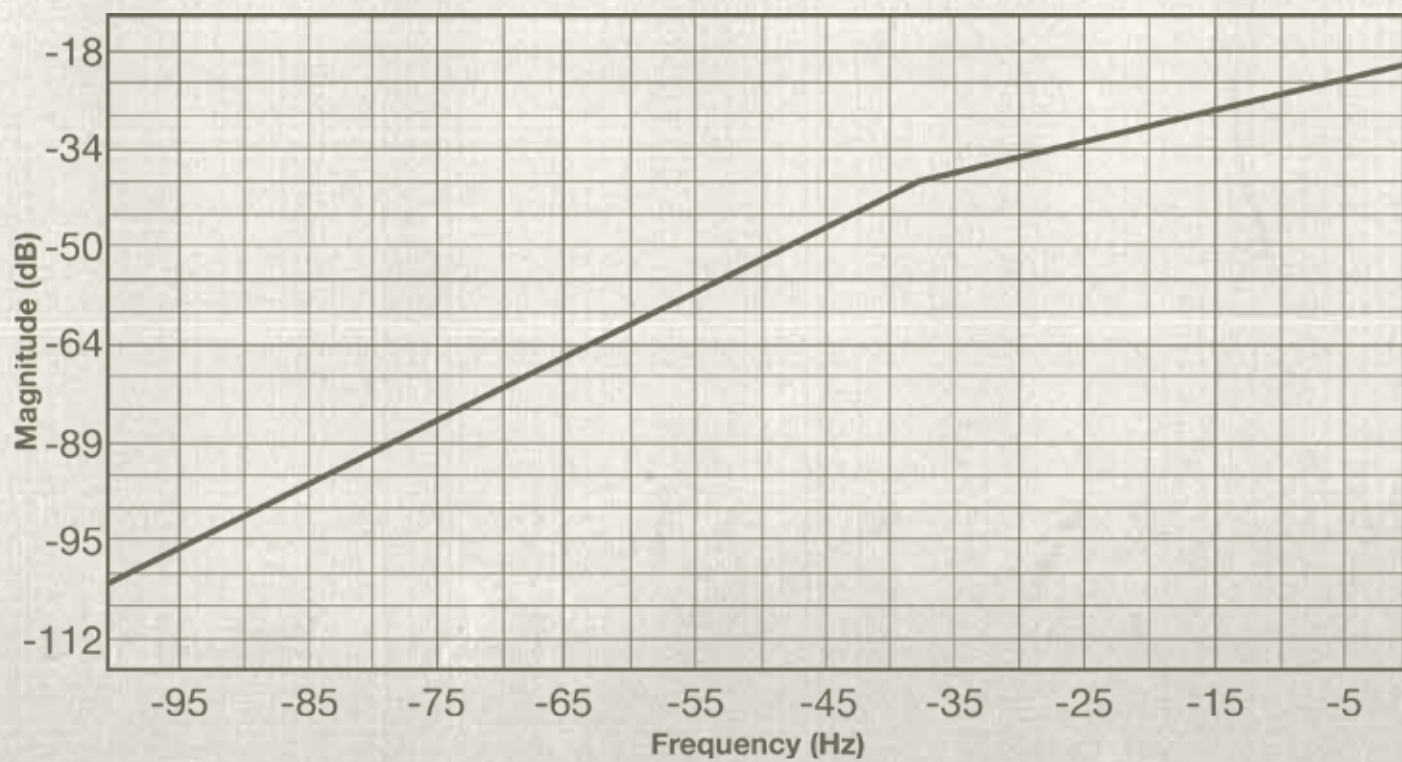
Ratio 2
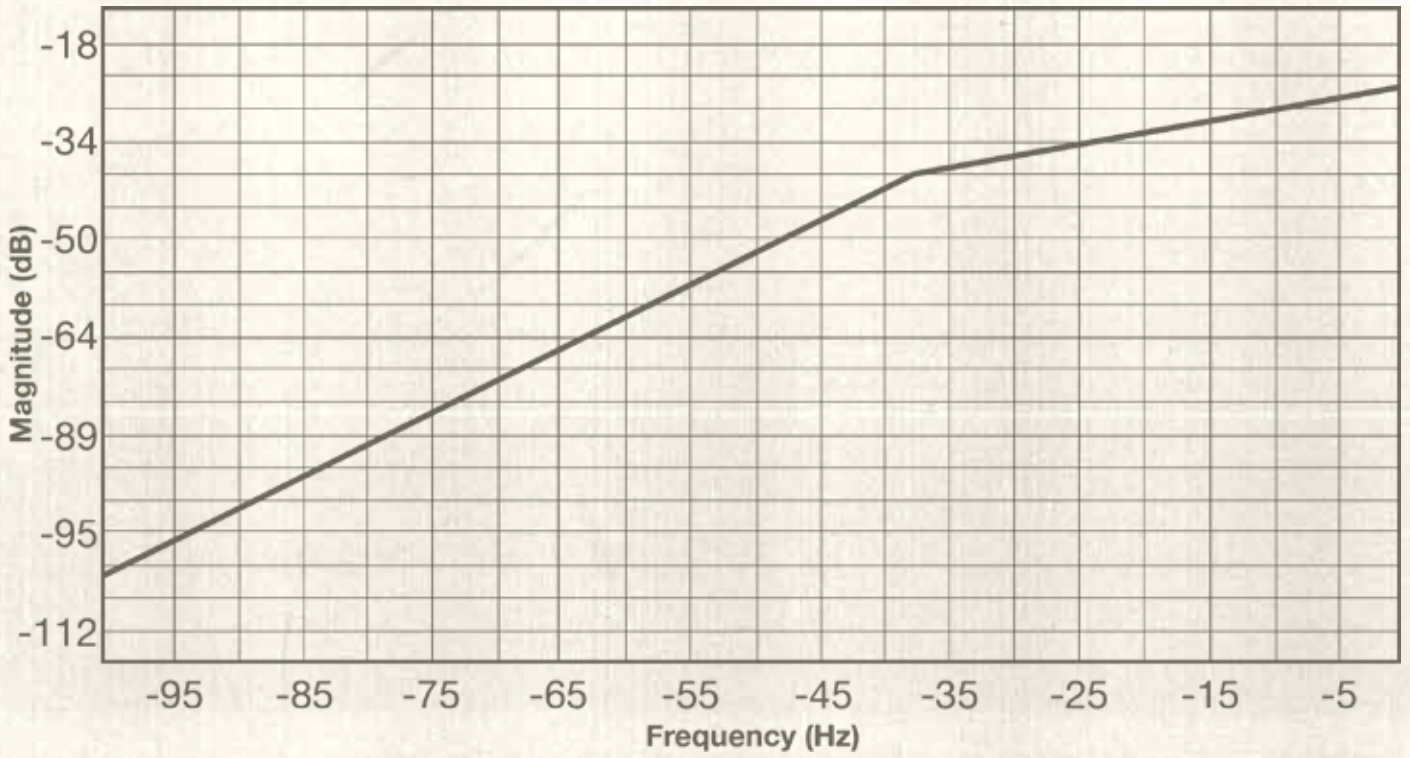
Ratio 3
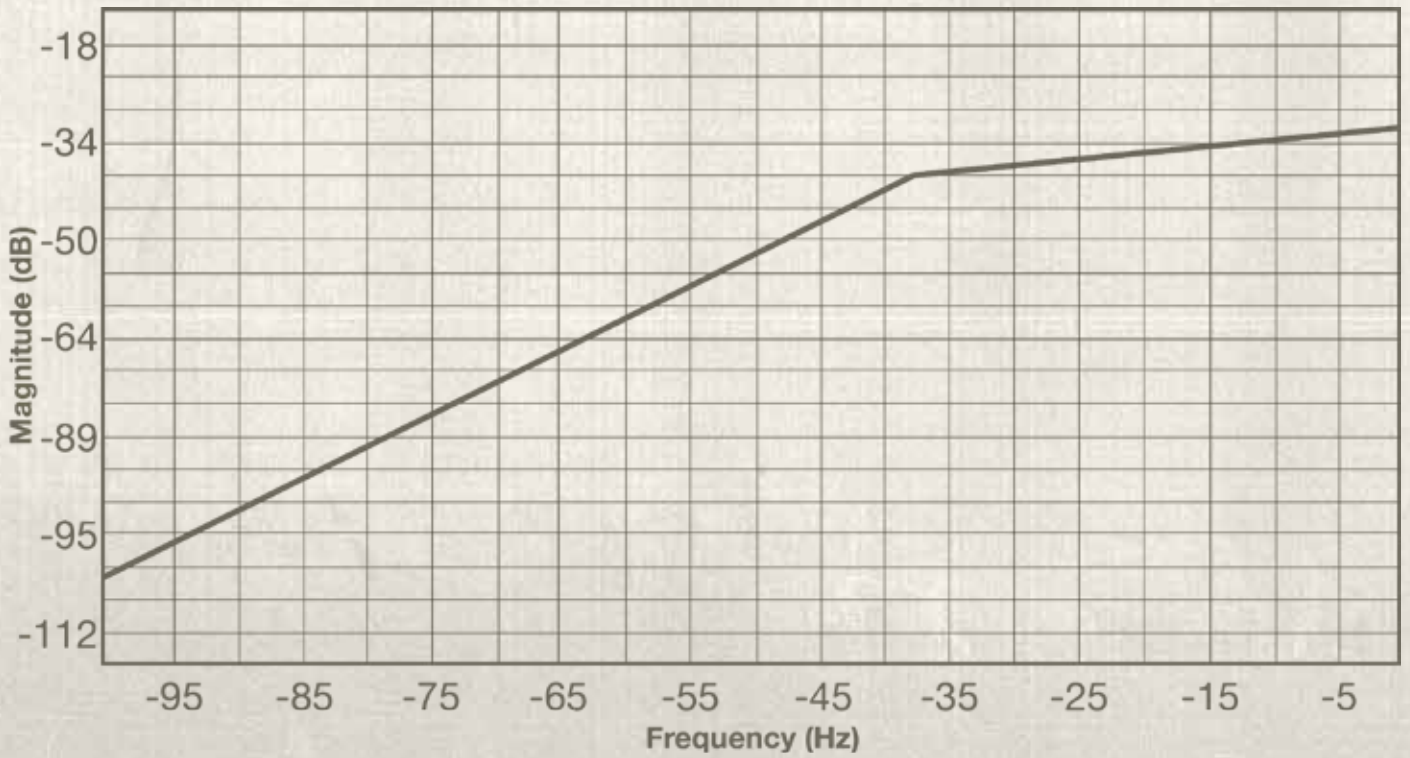
Ratio 6

6.3 Dynamic EQ: Ivory3 IAE-4 / Ivory IAE-5

The real innovation in this suite is showcased by our Ivory Dyn EQ (dynamic equalizer). It's an extremely versatile and useful tool; it can be a powerful problem solver for many audio engineers, and we believe it's going to become a milestone in our product line.

After the great result of Cobalt DYN EQ we decided to also introduce a new Dynamic Equalizer in this bundle, IVORY3 EQ and IVORY3 COMP merged in a single plugin. The pack also includes the STEREO version of it!

The outcome of this fusion is an incredible Dynamic EQ (the second one based on sampling and FIR filters), characterized by several important features.

IVORY3 DYN EQ consists of four sections:

- EQ A
- EQ B (sidechain EQ)
- COMPRESSOR (C)
- DYNEQ (D)

These sections included in both version, below a resume table

IVORY DYN EQ	
- EQ A - EQ B (Sidechain EQ) - COMPRESSOR (C) - DYNEQ (D)	
IVORY DYN EQ STEREO (L/M – R/S)	
L/M	R/S
- EQ A LEFT (NOT sidechain EQ*) - COMPRESSOR (C) - DYNEQ (D)	- EQ A RIGHT (NOT sidechain EQ*) - COMPRESSOR (C) - DYNEQ (D)
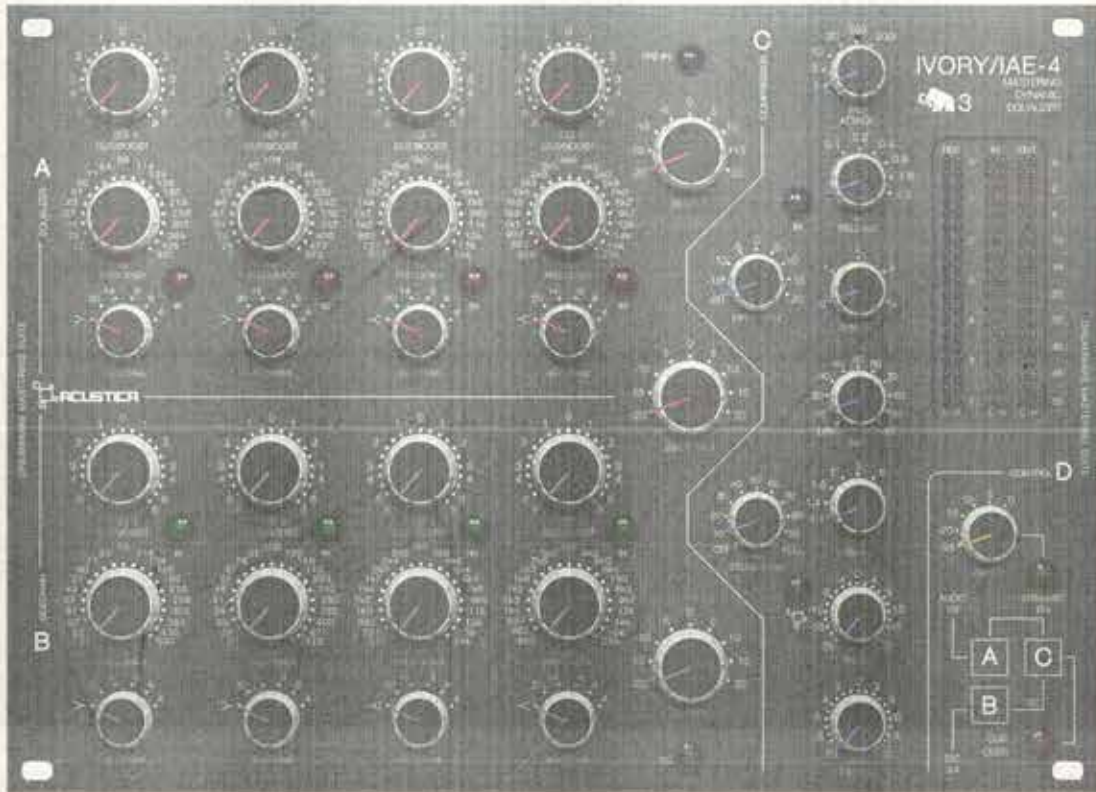
IVORY IAE-4 The dynamic equalizer
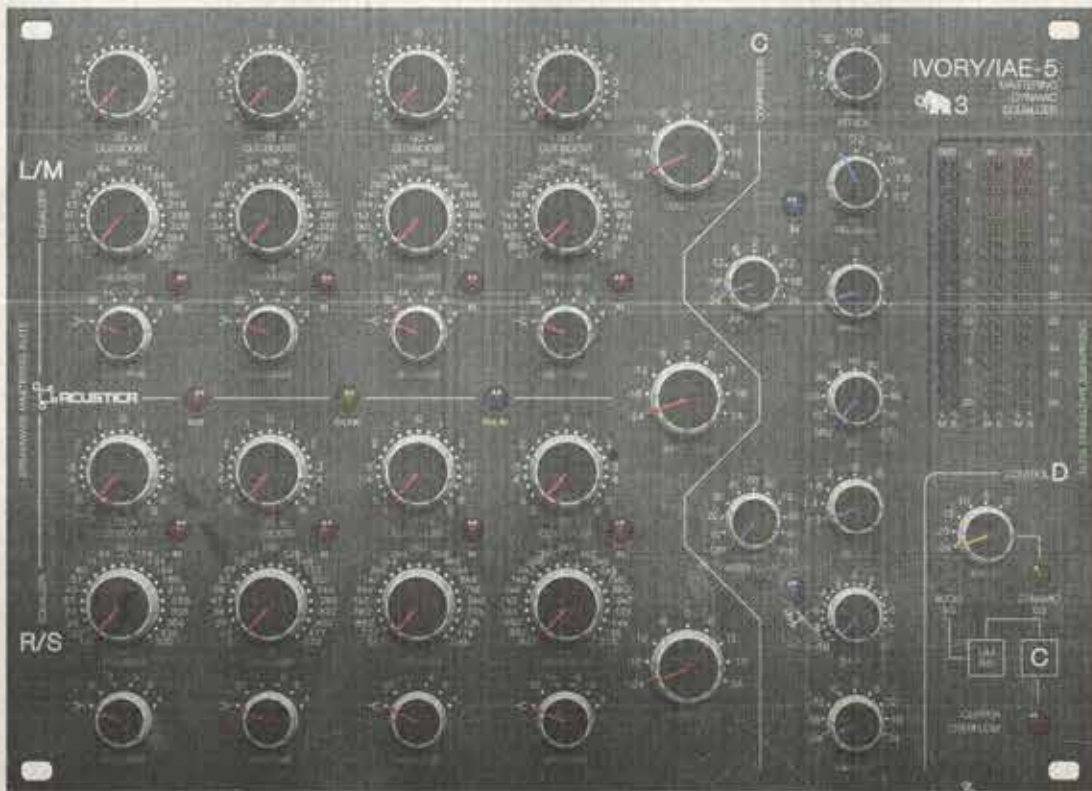
IVORY IAE-5 The dynamic stereo equalizer

*Ivory Stereo version doesn't support external sidechain, it isn't equipped by EQB (sidechain EQ) but only with stereo version of EQA (EQA LEFT – EQA RIGHT).

IVORY DYN EQ STEREO includes M/S (MID-SIDE) and C-LINK (CONTROL LINK). More details in Operation section.

MAIN FEATURES

These are the main features/controls inside IVORY3 DYN EQ which are not present in the standalone versions:

MAIN IDEA

The main idea behind compressors is the dynamic manipulation of the overall level of the audio material. On the other hand, equalizers change the spectral character of the audio signal in a fixed, static fashion.
A multiband processor such as our IVORY3 DYN EQ can do both at the same time. It can be used like a filter that isn't just set to a specific gain level, but that is able to dynamically change its gain settings, depending on a control signal, just like a compressor. The audio market usually offers complex tools that can be potentially destructive if not used properly. This is why we decided to create a complete, no-compromise, powerful Dynamic EQ, yet easy to operate in every mixing, sound-design and even mastering session.
This Dynamic EQ is the first of a new generation of tools which represent the perfect marriage between dynamic processing and spectral shaping.
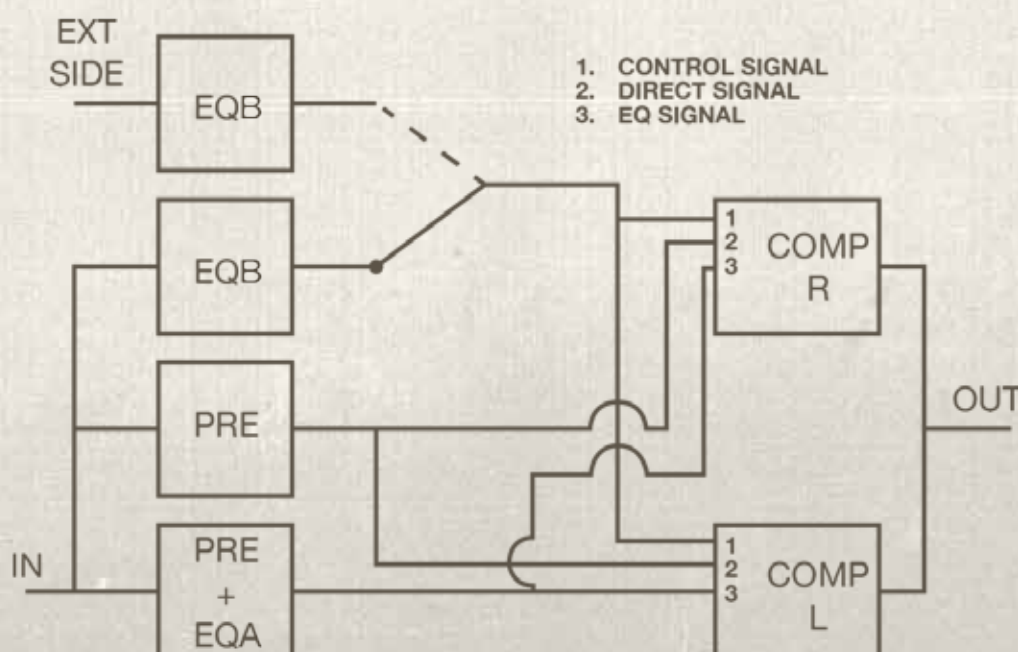
EXTERNAL SIDECHAIN

- SC (external sidechain)

IVORY3 DYNEQ includes the external sidechain activable pressing the SC button in CON-TROL (D) section. This button enables the external sidechain. Each compressor may use an external signal, instead of the main input, to control the amount of dynamic equalization or audio compression.
The different routing configurations allow to choose between the internal (channels n.1 & 2), or the external side chain input (channels n.3 & 4).

We use the term "internal sidechain" to specify that the compressor is fed internally (it means it has an internal routing) when the input signal is at the same time the control signal. The "external sidechain" derives the control signal from another source (entering the plugin, but not necessarily the compressor, as it can be equalized before the dynamic section). This control signal then goes through the sidechain channel and sets the amount of the gain reduction. Explanation of the sidechain behavior in different plugin formats:VST: the plugin supports four input channels (Quadro Mode). The first two channels represent the audio channels (1-2), the last two channels are the sidechain channels (3-4).
AAX: the external sidechain routing controls a key input parameter to selectively modify the sidechain in PT. Audio channels (1-2), Sidechain channels (3-4).
Some hosts do not support the channels 3 – 4, so using this feature might even cause crashes with specific DAWs under certain conditions. This behavior differs depending on format and host used. Please read the manual of your DAW to verify if it supports this feature.

Users may contact our technical support for more details. The external sidechain is not yet supported in AUDIO UNIT (AU) format. It will be implemented in the future.

- Range knob

The Range knob lets you easily adjust the maximum amount of applied dynamic equalization.This control sets the global active range of the dynamic equalization, so, depending on Eq1 settings (prevalence of boosts or cuts) it determines how much spectral gain increase or reduction is applied to the input signal. The Range control is therefore strictly dependent on Threshold parameter.
The latter sets the threshold level for compression; then, when the signal exceed the Range setting value, the Dynamic EQ is triggered.
In other words, as the audio signal exceeds the threshold, boosts and cuts are progressively reduced, thus compressing the dynamic range of the affected frequencies.

CONTROL SECTION

EQ A: pushing independent IN buttons to enable the bands of the EQ A:
EQ A (main inputs 1-2 channels)

PEQ B: pushing independent IN buttons to enable the bands of the EQ B:
EQ B is in internal sidechain mode (1-2 channels),

Pushing SC button:
EQB feeds the control signal from another source-> external side chain input (channel 3 & 4).

Pushing COMP button:
COMP input is the signal processed by EQA, COMP control signal is the signal processed by EQB (derived from the input signal, if in internal sidechain mode, or from an external signal routed to input channels n.3 & 4 if EXT SIDECHAIN is selected)

Pushing Dynamic EQ:
the signal is dynamically processed using the EQA, EQB and COMP settings as indicated above.

INPUT-OUTPUT METERS
They measures the input and output levels of the plugin

GAIN REDUCTION METERS
They measure (L-R) the reduction level applied by compressor. The meter indicates '0' in the absence of an input signal or any gain reduction. If the signal exceeds the compression threshold or limit level, the amount of gain reduction is shown.

INPUT-OUTPUT METERS
They measures the input and output levels of the plugin.

IVORY3 Dyn Eq is equipped with the same controls as IVORY3 EQ and IVORY3 COMP, but, as anticipated in the previous chapter, we added other controls:

IN
These buttons activate each specific module of the plugin (EQ1, EQ2, COMP3);
DYNAMIC EQ
It enables the Dynamic Eq;
PRE
This button activates the preamp of the plug-in (the same preamplifier circuit emulation of IVORY3 EQ standalone version);
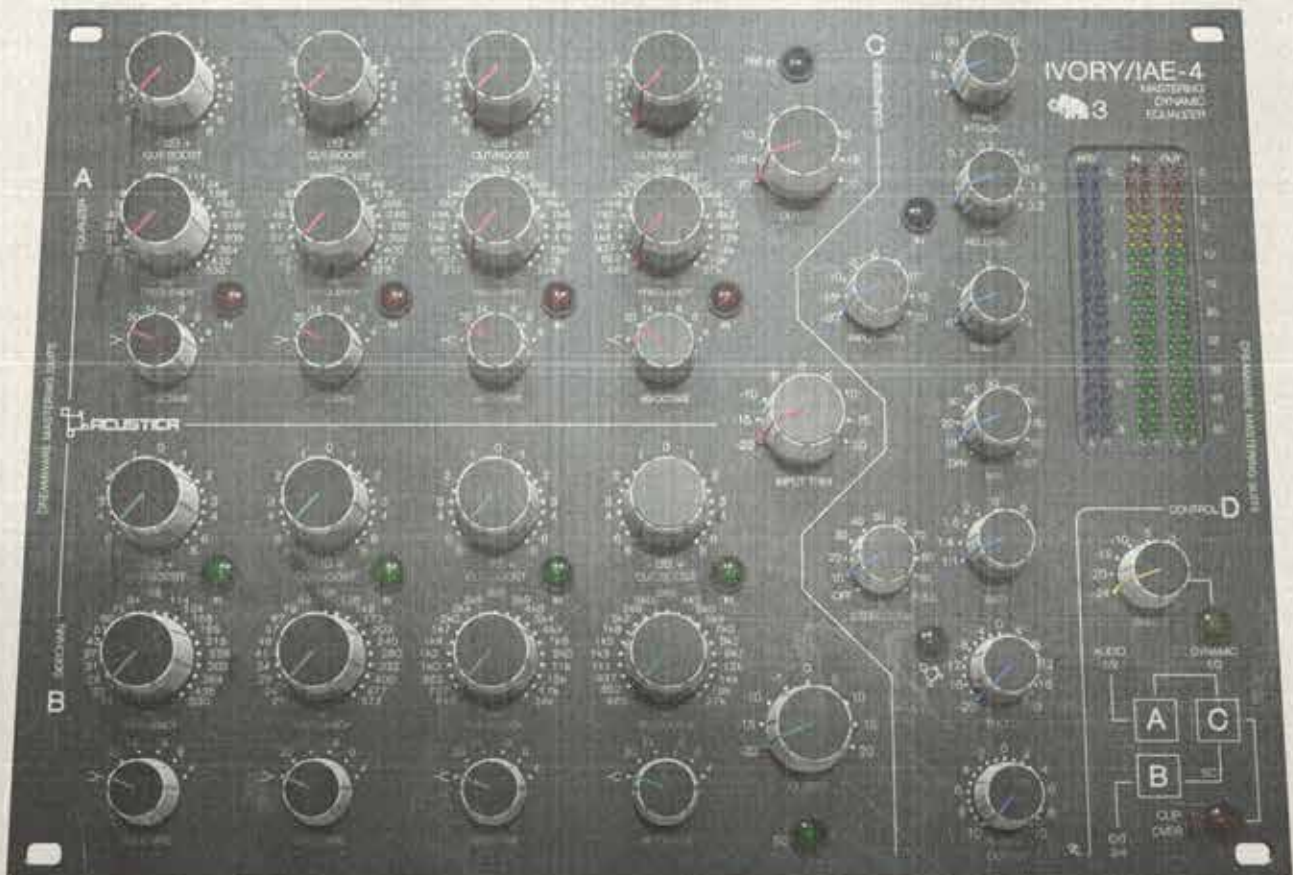### RATIO
This control allows to choose among 3 different ratios (more details in the MAIN FEATURES chapter above);
ATTACK
It sets the compressor's attack time, ranging from 0.5 mS (fast) to 50 mS (slow);
SC
This button enables the external sidechain of the plug-in. (more details in MAIN FEATURES chapter above).

MORE INFO

Unlike the previous Dyn eq released by Acustica we decided to separate the INPUT TRIM for EQ and Compressor. Another important feature of this plugin is the INSANE MODE enables pushing the ACUSTICA LOGO button.
The Expander wasn't implemented in this DYN EQ; Pressing the dyneq button the MIX knob disappears. The main difference with Cobal Dyn Eq is about the range; it's more "limited"/ smaller. This plugin of the suite has some different PRESETS. (Acustica decided to add also a STEREO version of Dyn EQ;

How to use it

This is not a restrictive explanation about how to use this Dynamic Eq: it's just our suggested operating approach, and we invite you to start from here and follow this guide in order to become familiar with this processor.
Here's a short description in three steps:

1) EQUALIZE YOUR TRACK

Ivory3 DynEq includes two different equalizers: EQA (active on the input signal path) and EQB (active only on internal or external sidechain path). SC button activates the external sidechain (input channels n.3 & 4).
Set EQA as desired, and activate the preamp stage, if need be. EQ A OUTPUT is an output gain control, and it is used as a final master volume control.

2) COMPRESS YOUR TRACK AND EVENTUALLY USE THE SIDECHAIN

Compress your track using the dynamic processor module of Dyn Eq in internal sidechain mode (activating IN button of EQB module) or external sidechain mode (activating IN buttons of EQB and pushing SC button).
Input trim also influences the level of the compressed signal.

3) PRESS DYN EQ BUTTON

When you are satisfied of your sound, press DYN EQ button located in the Control section. Now you're starting from a basically flat setting of the eq.
If the signal is above the threshold level of the compressor and exceed the RANGE control value, you obtain up to the maximum of the equalization curve, depending on the indicated gain reduction value.
As previously explained, the Threshold control sets the threshold level for compression; then if the signal exceeds the Range value, the Dynamic EQ is triggered.
The RANGE control lets you easily adjust the range of the dynamic eq action by setting the maximum amount of applied gain change.

IVORY3 DYN EQ (IAE-4) DETAILS:

As in Cobalt Dynamic Eq, this a new kind of Dynamic Equalizer.

When the Dyn EQ button is engaged, if the signal is above the threshold level of the compressor and exceeds the RANGE control value, then up to the maximum of the equalization curve is applied to the signal, depending on the indicated Gain Reduction value.

Increasing the OUTPUT control of the EQ section generates an "EXPANDER" function; this is why we deemed unnecessary an extra EXPAND mode in this plugin. As previously explained, the Threshold control sets the threshold level for compression; then, if the signal exceeds the Range value, the Dynamic EQ is triggered. The RANGE control lets you easily adjust the range of the dynamic eq action by setting the maximum amount of applied gain change.

NB: When the Dyn EQ button is engaged, the MIX control disappears.

This Dyn EQ is a great choice for de-essing (use our PRESETS*)

Here's an interesting usage:
- apply a Reverb to a Voice track via a Send bus;
- insert an instance of IAE-4 in external sidechain mode after the Reverb processor;
- send a signal from the Voice track also to the SC input of IVORY3DYNEQ;
- cut the mid frequencies creating a sort of "smile"curve;
- the voice suddenly jumps in front of the mix, but the Reverb is still present.
- Frequency Conscious "Ducking" SIDECHAIN scenario

Here's another classic usage for the external SideChain:
- insert IVORY3DYNEQ in the Bass track;
- send the signal from the Kick Drum track to the SC input of IVORY3DYNEQ;
- set the eq so that it cuts out from the Bass the most prominent range of frequencies of the Kick Drum;
- adjust the compressor so that it applies the frequency cut to the Bass track only when the Kick Drum is played;
- refine the compressor settings to taste (Ratio, Threshold, Attack and Release times, etc.); and – voilà - any frequency clash in the bass region is eliminated, yet Bass and the Kick Drum are both still present and well audible in the mix.

Ivory Dyn EQ includes PRESETS*!

If the preset list doesn't appear (as default) in your plugin, it is necessary to download the addictional package ("IVORY3..."PRESETS.N2S) from the "Installers Folder" in our website. After the download, please put this .N2S in the same folder containing the default .N2S.

IVORY3 DYN EQ STEREO (IAE-5) DETAILS

This plugin allows a greater control over the stereo field, but it doesn't feature an external Sidechain input.

It should be used whenever a detailed, frequency- and dynamic-dependent control over the stereo field is wanted.

Our suggestion:
Here's a typical use of the Dyn EQ Stereo in M/S mode:
- enable M/S mode by pushing the corresponding button;
- set the LOW SHELF control to cut the 150Hz region;
- similarly, cut some high frequencies, as well (starting, say, from 12kHZ);
- adjust the compressor to taste;
- the final result is a more controlled stereo field, yet the process is extremely transparent and dynamically involving.

- Ivory Dyn EQ Stereo includes PRESETS!
If the preset list doesn't appear (as default) in your plugin, it is necessary to download the addictional package ("IVORY3..."PRESETS.N2S) from the "Installers Folder" in our website. After the download, please put this .N2S in the same folder containing the default .N2S.

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