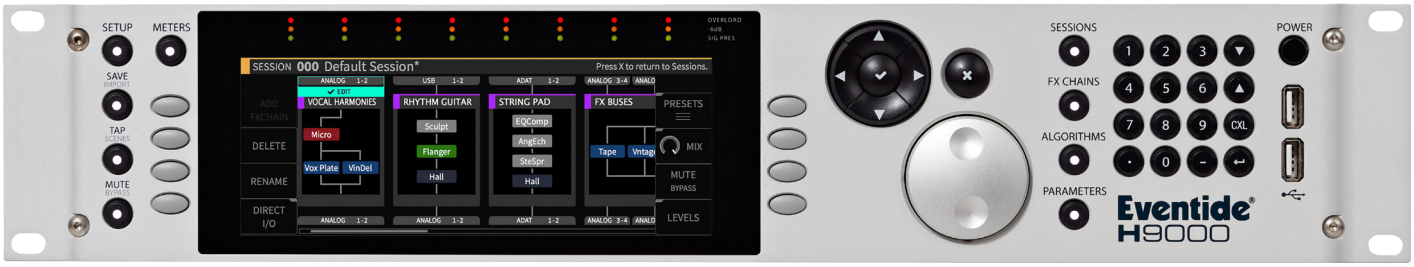
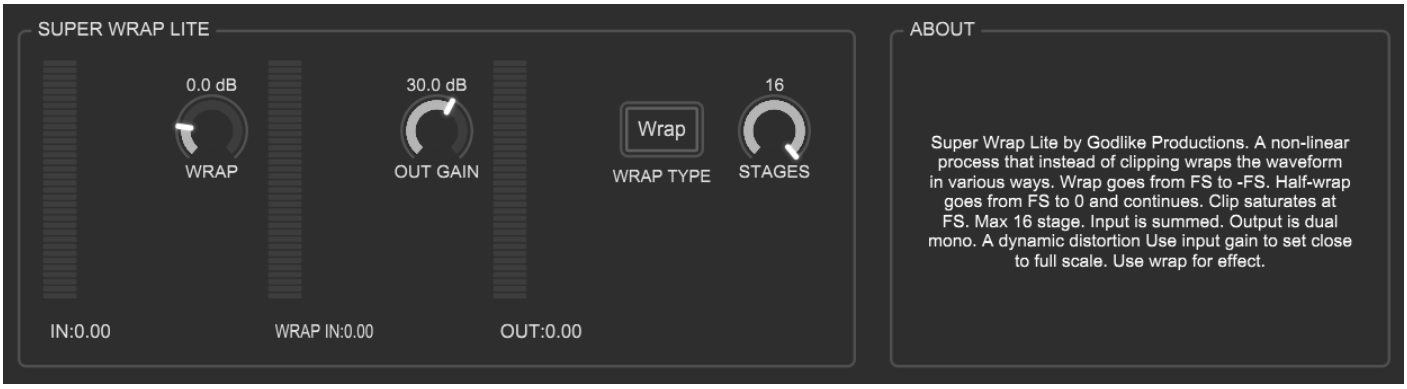
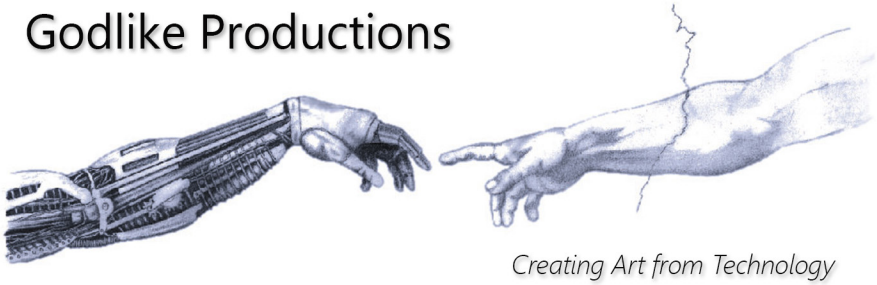


Instruction Manual

Super Wrap Lite



Godlike Productions



Creating Art from Technology

Revision 1.00

Godlike Productions Contact

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Caution

Ensure you have backed up all algorithms and other data of your H9000 prior to use of this product. You use these algorithms, chains, presets, sessions and/or other content entirely at your own risk and to all extents allowable under the law of Western Australia, Godlike Productions is not liable for loss of damage, direct, consequential or otherwise.

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Getting Started

This manual is for a custom algorithm for the Eventide H9000 available at https://godlike.com.au/index.php?id=420. The Super Wrap Lite algorithm can be downloaded either as an algorithm that you can import from a USB drive (FAT32 formatted) onto your H9000 from the front panel, via Emote, or that can be uploaded via VSIG 3.3.3 or later.

There will also be a copy of this manual in PDF format. If you lose your copy of the files, please contact us at https://godlike.com.au/index.php?id=contact and we will be happy to send you another copy, or re download the algorithm from the link above. This manual will be available within the zip file.

Installation and Activation

Method 1 - Install from USB

- Unzip the Algorithm and any presets. Copy Super Wrap Lite_71867073.h9a as well as the .9kp files to your USB drive and insert into your H9000.
- Long press the front panel Save/Import button; the Load Options screen will appear.
- Use the cursor up/down buttons or the wheel to navigate to Algorithms and press the Enter Key.
- Use the cursor up/down keys or wheel to select the Super Wrap Lite algorithm and then press the SELECT Key.
- If you do not wish to load presets, then you can use this algorithm as is. If you wish to use the presets, you will need to repeat this proceedure until this algorithm appears as algorithm 10103, or you can install it and use our H9000 Preset Tool to renumber your Presets to the location where you have installed this algorithms. If you have installed to 10103, copies at lower numbers can be safely deleted using Emote (see below).
- After you have used the Preset Tool, open the .9kp files from your USB drive using the same procedure.

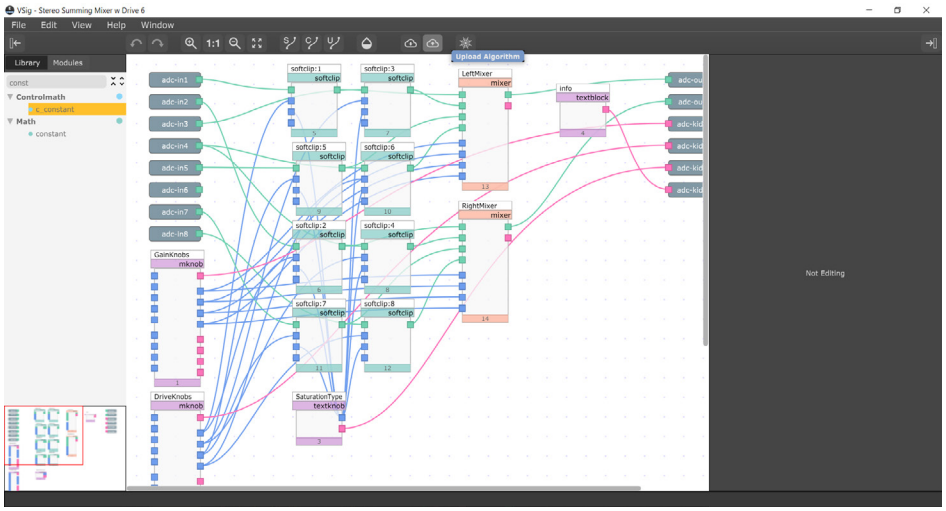
Method 2 - Install from Emote

- Unzip the Algorithm and any Presets.
- In Emote, select Algorithm -> Import
- Navigate to the unzipped Super Wrap Lite_71867073.h9a file and press open.
- If you do not wish to load presets, then you can use this algorithm as is. If you wish to use the presets, you will need to repeat this proceedure until this algorithm appears as algorithm 10103, or install it, and then use our H9000 Preset Tool.
- You can safely delete lower numbered algorithms used to bump this to 10103 by right clicking on the lower numbered algorithm and selecting Delete. Continue doing this until the only copy of Super Wrap Lite is the one loaded into slot 10103.
- To load the presets select Preset and then Open. Navigate to the .9kp preset files and press Open.

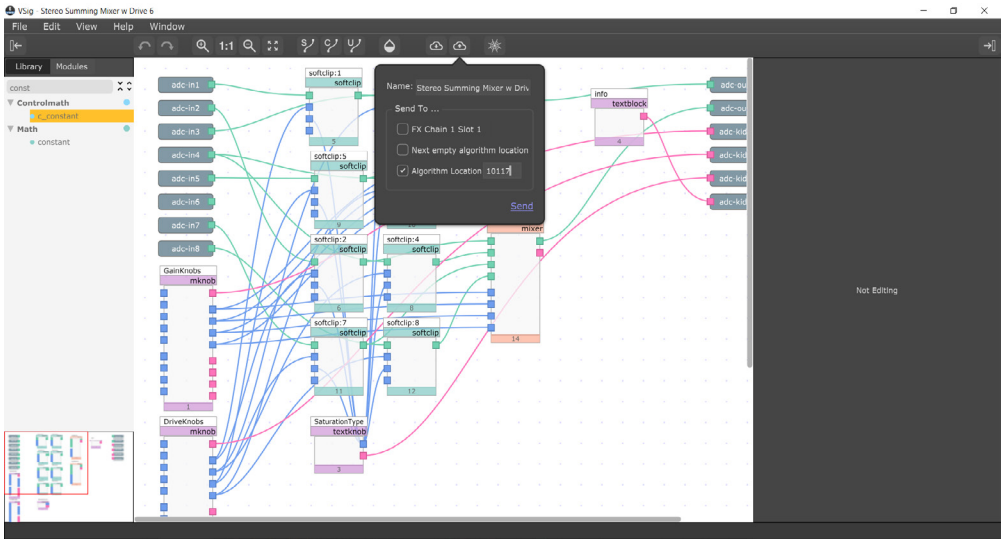
Method 3 - Install using VSIG

Note that not all algorithms are available as VSIG files. If this algorithms is available as a VSIG it's file name will appear below.

- File: not available for this algorithm
- Unzip the .sig2 file.
- Open this file within VSIG
- Ensure that VSIG is connected to your H9000
- Select the Upload Button



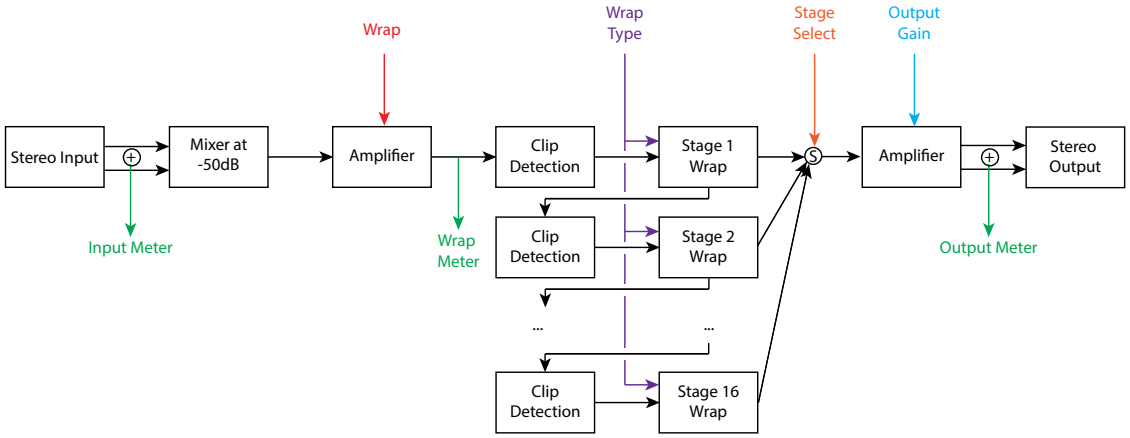
- Select Algorithm Location and type “10103” into the text box. Press Send.



- If you prefer, you can load it to any location, and take note of the location and then use our H9000 Preset Tools.
- Presets cannot be loaded via VSIG. Install these either from Emote or from the front panel via USB.

Setting Things Up

The diagram below shows the signal flow of this algorithm.



Parameters

Parameter	Description	Range
Input Meter	The input level. Adjust to about 3/4.	Indicator
Wrap	The amount of gain applied	-12dB to 46dB
Wrap Meter	The post amplified level	Indicator
Wrap Type	The type of wrap applied to all wrap stages	Wrap, Half Wrap, Clip
Stage Select	The number of stages of wrap to be performed. This functions by taking a tap from the wrap network at the chosen place.	1-16
Output Gain	The amount of makeup gain for the outputs	0.1dB to 50dB
Output Meter	Output level meter, for adjusting output gain	Indicator

This algorithm is non-linear dynamic distortion effect. It accepts stereo inputs, however it sums them and treats a mono signal path that outputs dual mono outputs as a stereo pair. Both left and right outputs are identical.

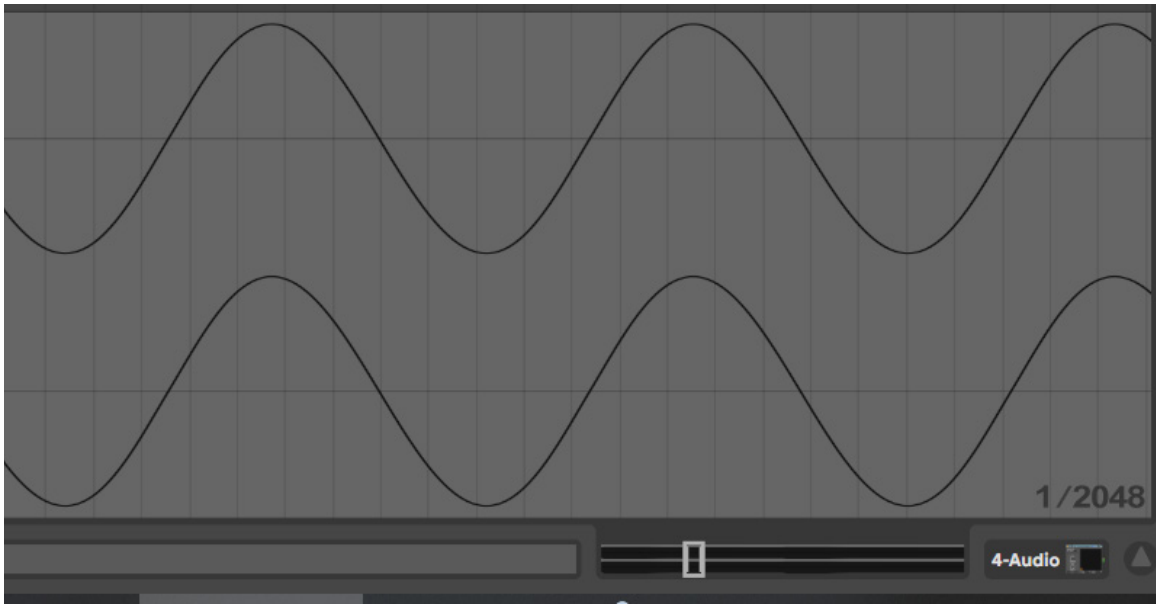
The Super Wrap Lite algorithm amplifies the input signal, but instead of clipping when it hits full scale, the signal wraps around from full scale to negative full scale, and vice versa. If it again clips, then it will instead wrap again. The algorithm has 50dB or headroom built into it, and can wrap the signal a maximum of 16 times, but will stop wrapping after hte number of stages chosen by the wrap parameter.. If there is still gain after the selected number of wraps, the signal will not be modified any further, and it can either continue uninpended, if the output gain is set quite low, or will clip, if the output gain is set high.

The suggested use of this algorithm is to set Wrap to 0dB and increase your input gain to the algorithm until just below distortion. This is normally about 3/4 of level on the input meter. This will standardize the input level. Next use the Wrap control to dial in your desired amount of distortion. At low levels the distortion will only occur on the loudest parts of the sound, and as you increase it, the distortion will consume more and more of the signal. At about the 12 o'clock position, it may sound quite noise like. As you continue to increase, the wrap will saturate, and futher increasing may reduce distortion, giving way to a saturated input signal. Adjust the output gain to vary the output level. Reducing the output level can reduce clipping and result in smoother waveforms if you have used up all 14 wraps.

Below are waveforms at increasing levels of Wrap, different Wrap types and changing the number of stages, which perhaps best shows what this algorithm does.

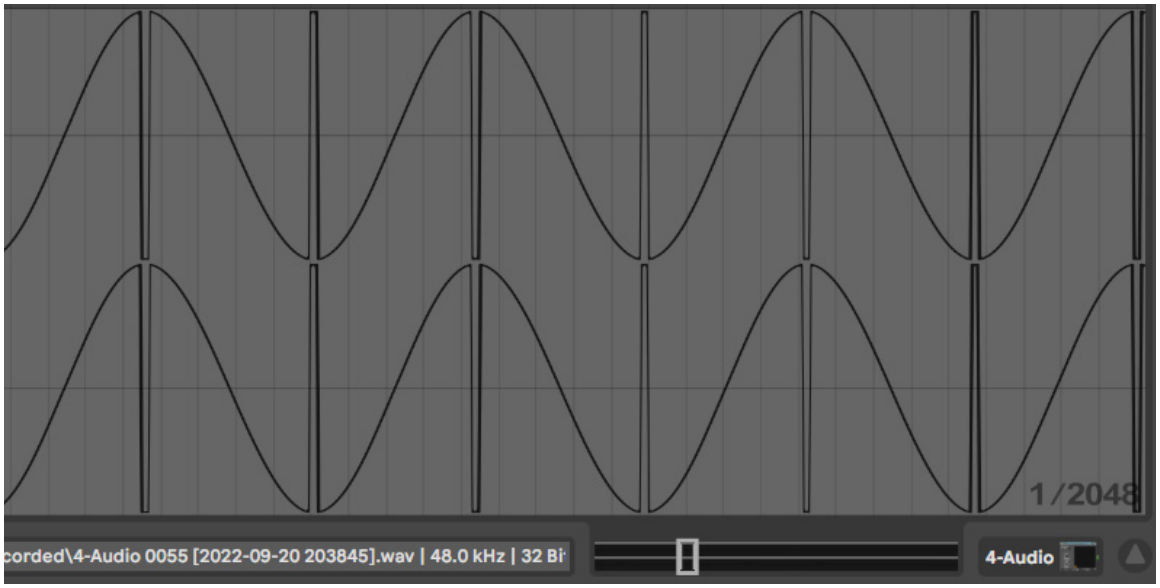
For quick and easy hard sync, feed a single sawtooth into this algorithm.

Sine Input

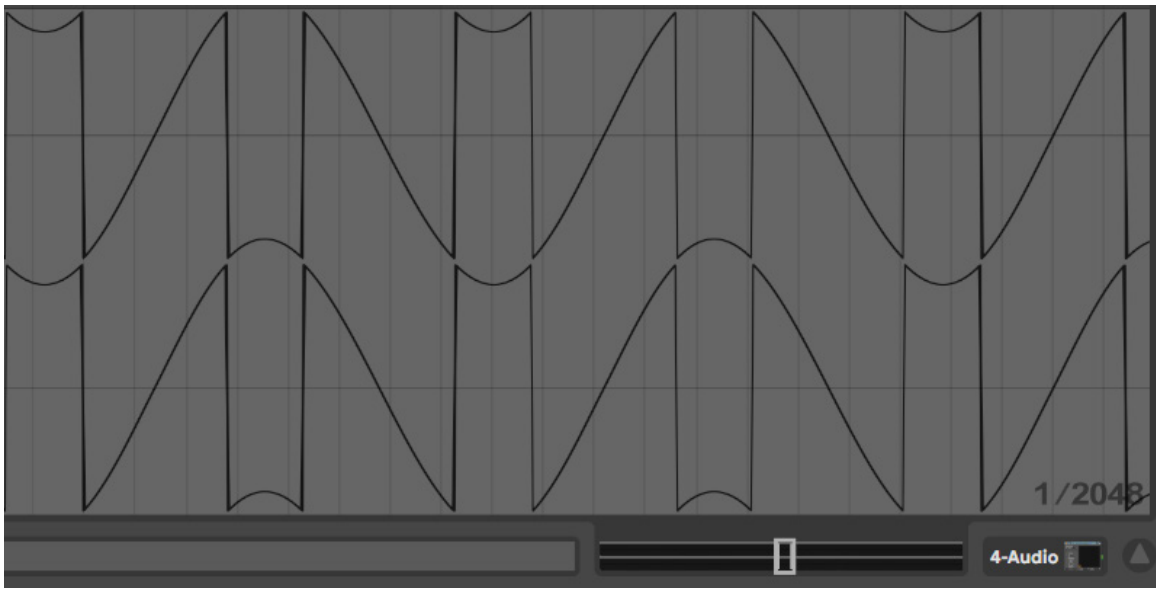


Wrap

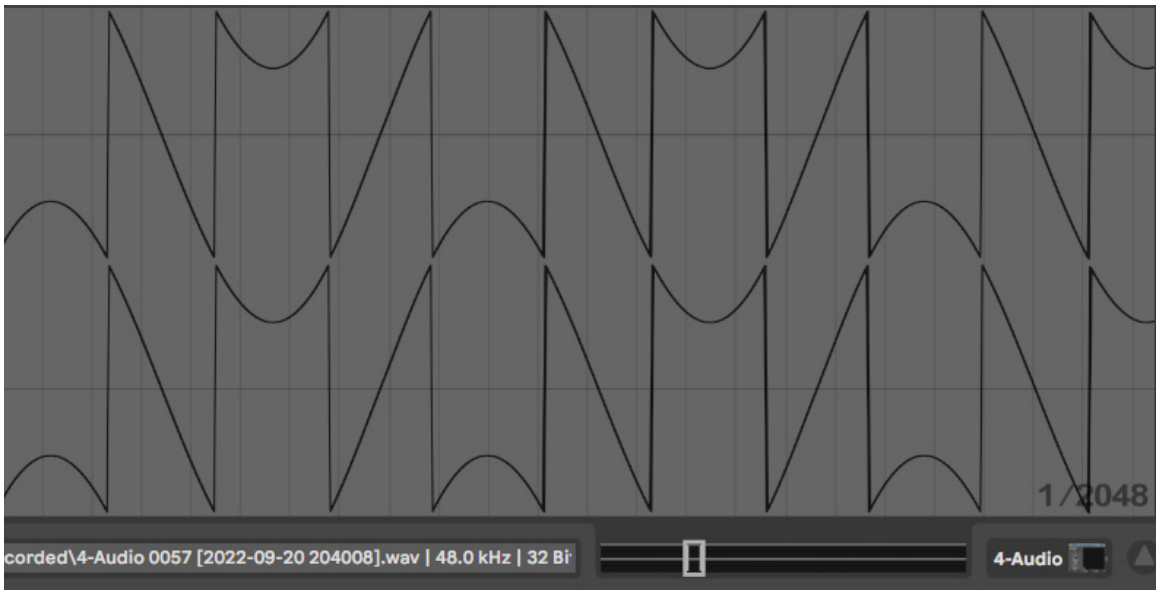
0.7dB 14 Stage Wrap Wrap with 30dB Output Gain



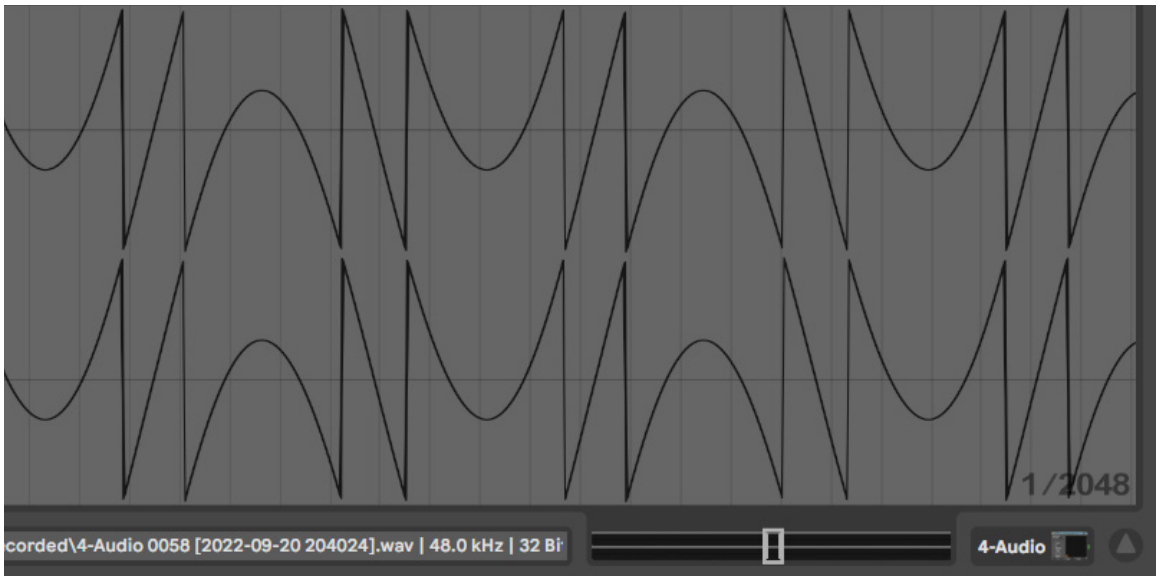
2dB 14 Stage Wrap Wrap with 30dB Output Gain



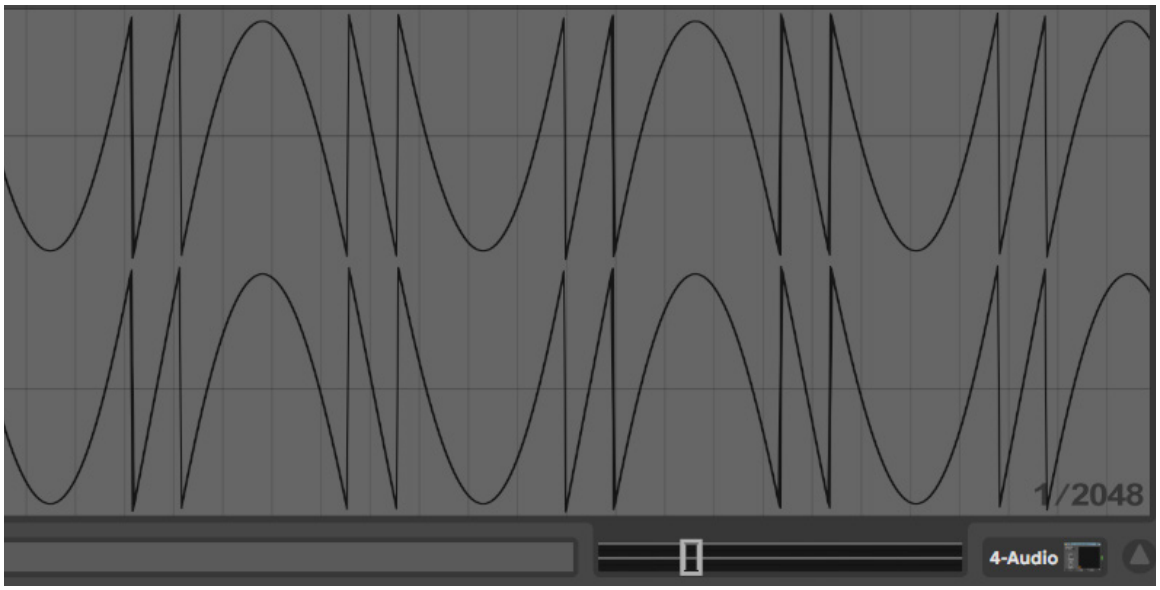
4dB 14 Stage Wrap Wrap with 30dB Output Gain



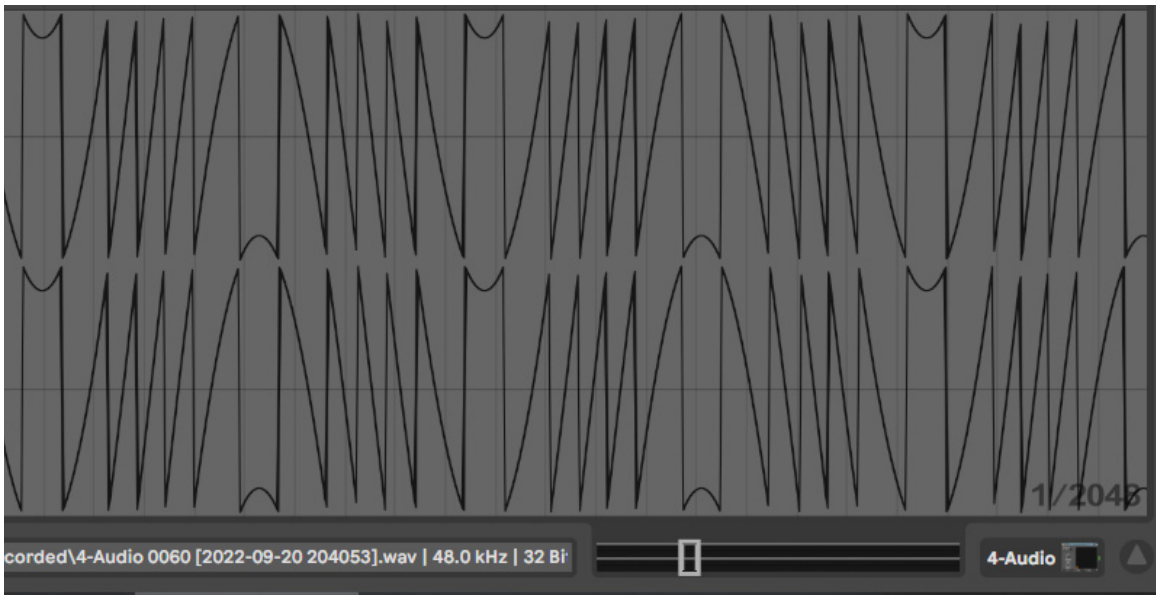
8dB 14 Stage Wrap Wrap with 30dB Output Gain



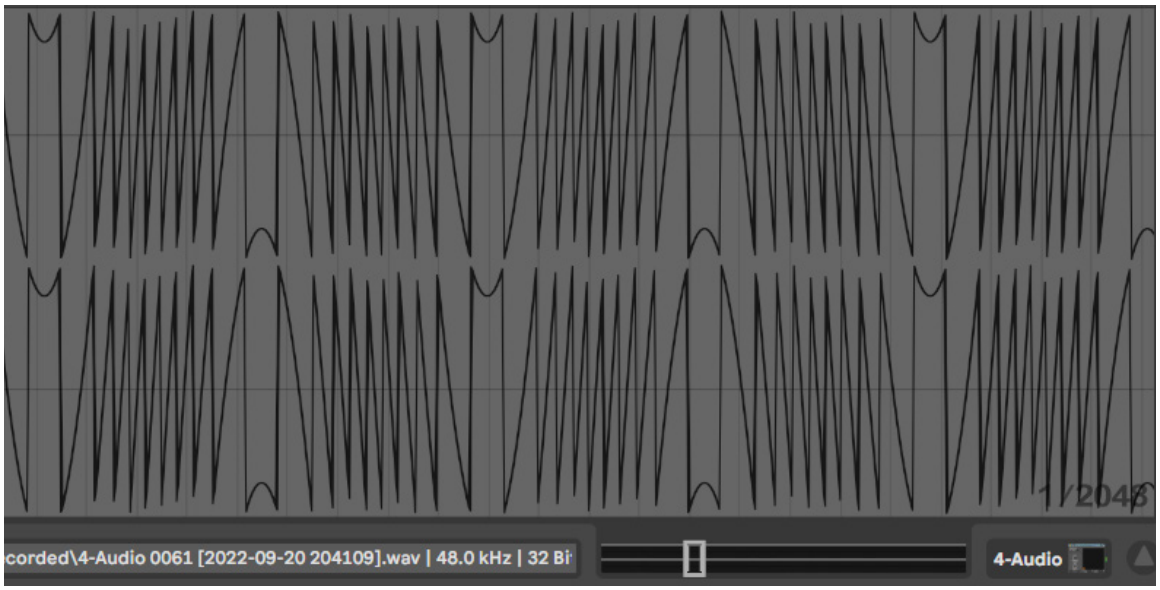
10dB 14 Stage Wrap Wrap with 30dB Output Gain



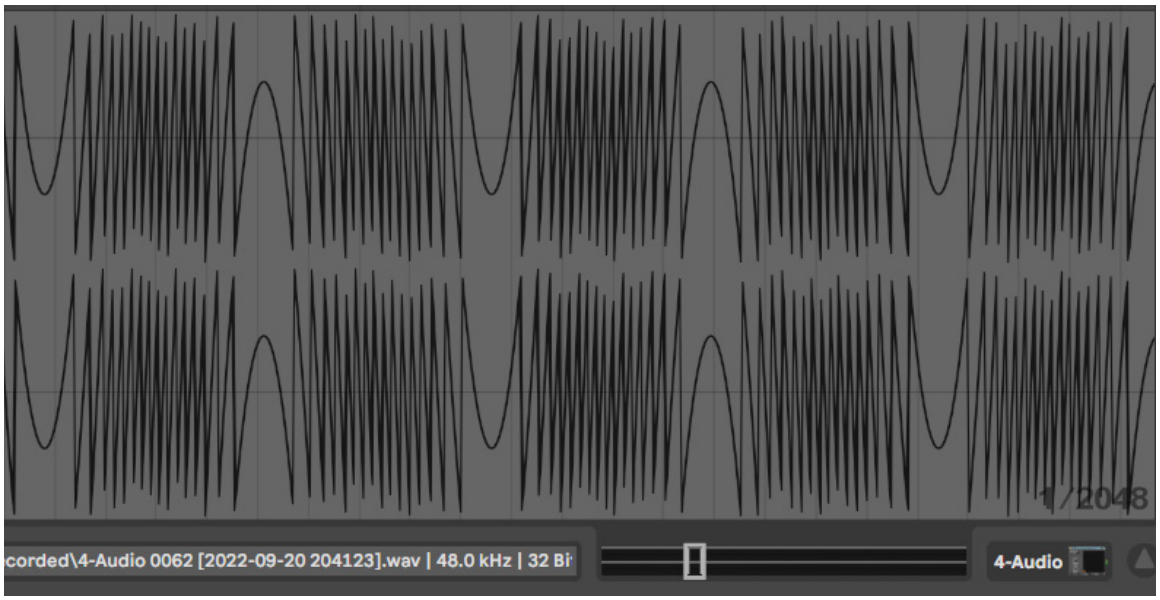
15dB 14 Stage Wrap Wrap with 30dB Output Gain



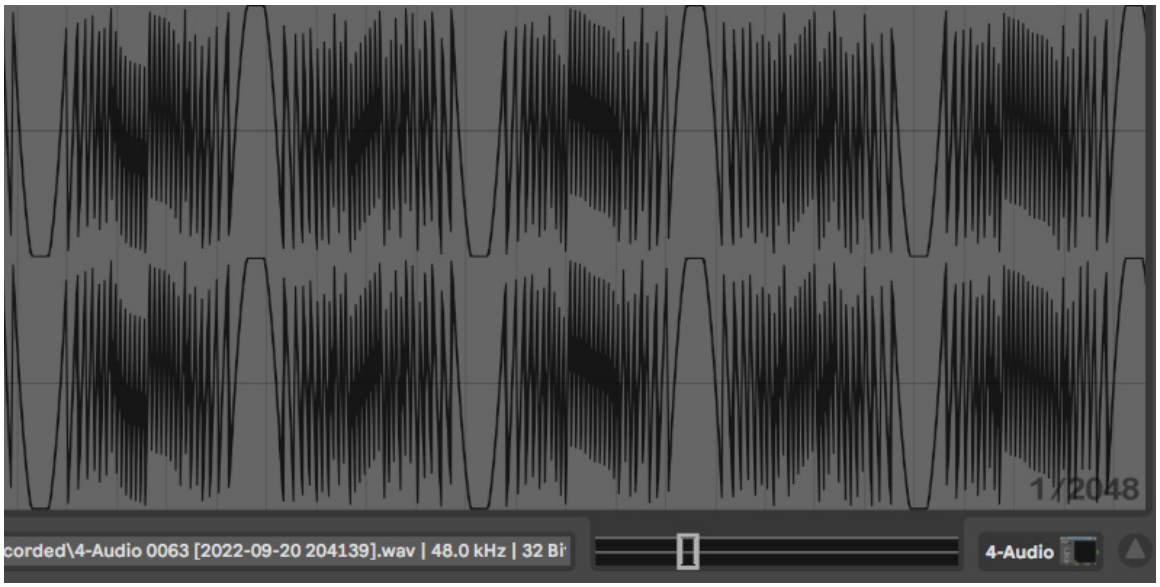
20dB 14 Stage Wrap Wrap with 30dB Output Gain



25dB 14 Stage Wrap with 30dB Output Gain

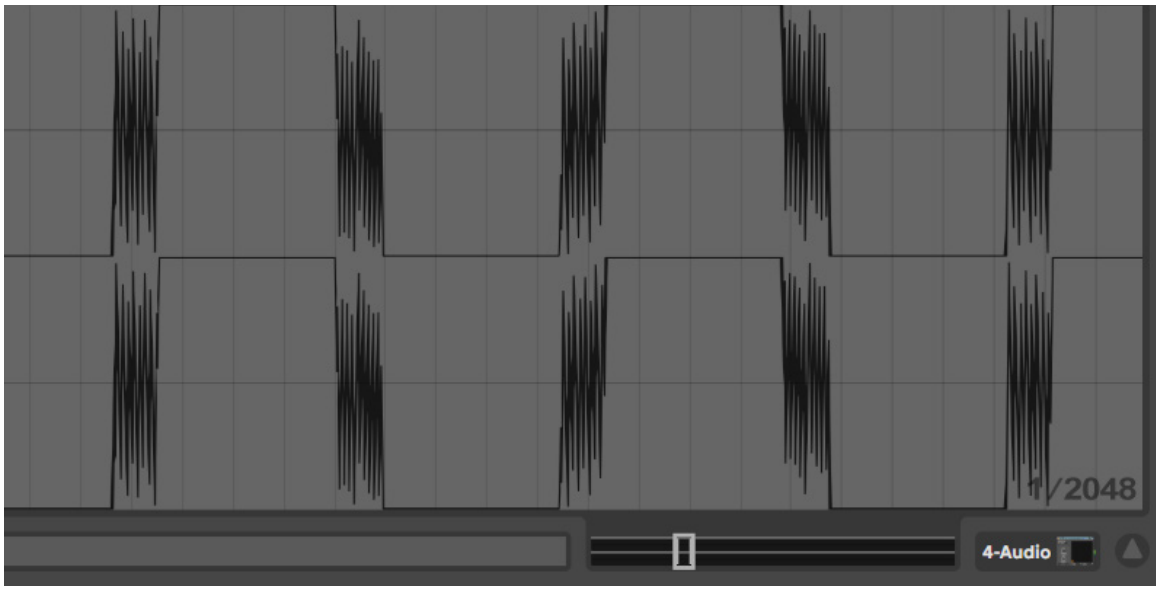


30dB 14 Stage Wrap with 30dB Output Gain

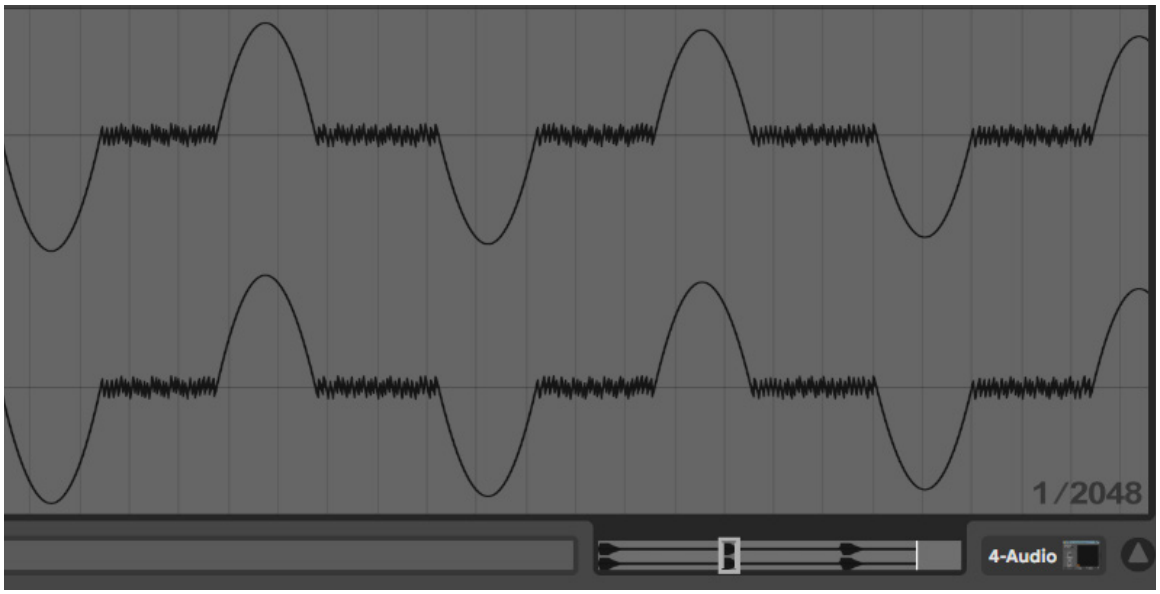


35dB 14 Stage Wrap with 30dB Output Gain

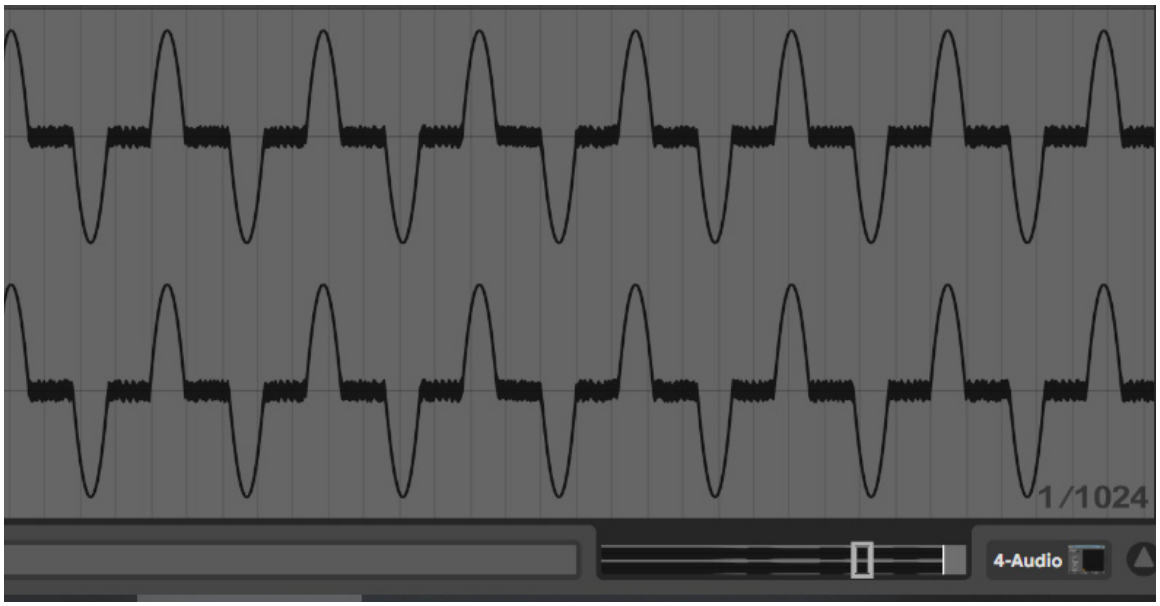
40dB 14 Stage Wrap with 30dB Output Gain



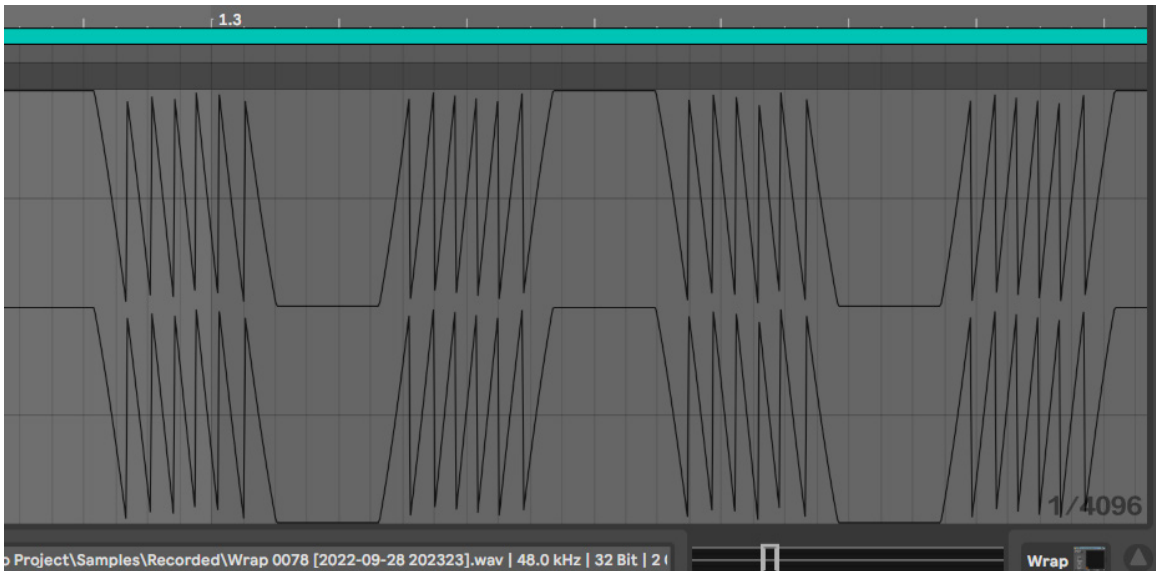
35dB 14 Stage Wrap with 10dB Output Gain



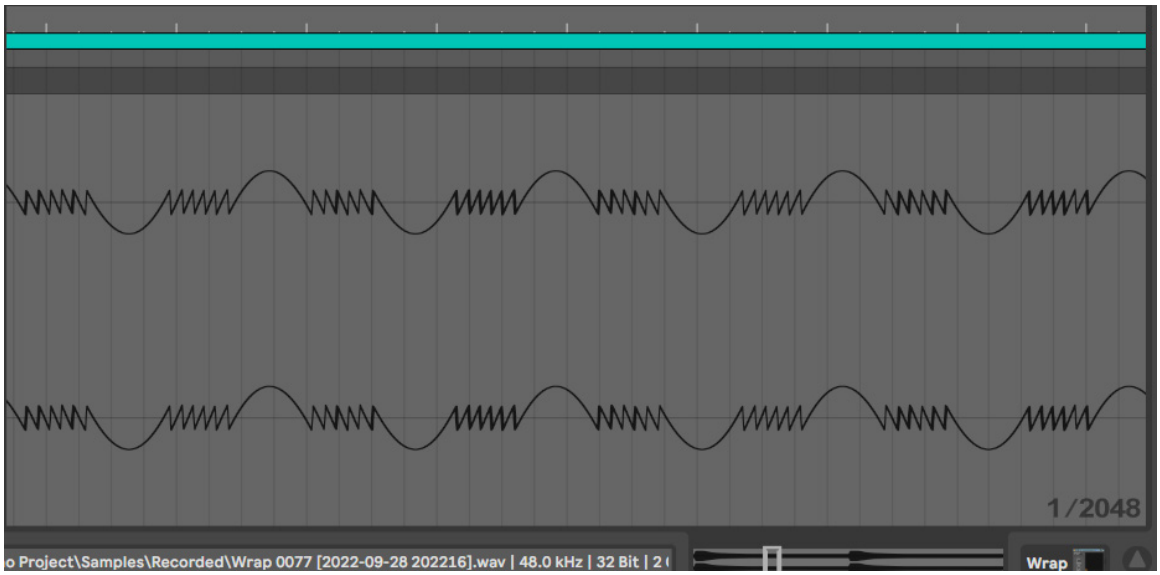
42dB 14 Stage Wrap with 9.5dB Output Gain



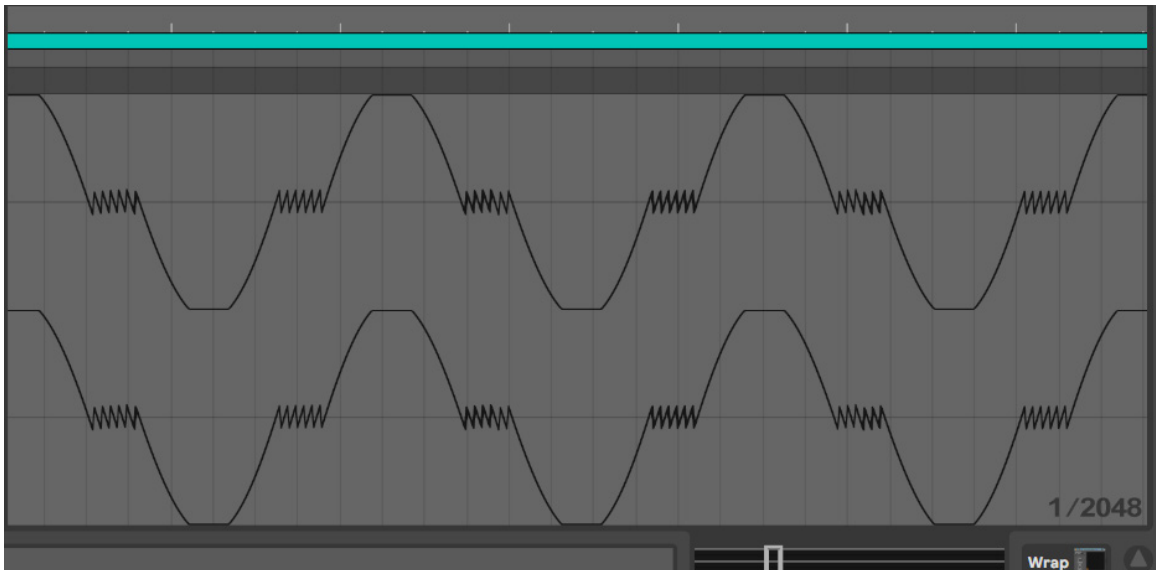
25dB 2 Stage Wrap with 30dB Output Gain



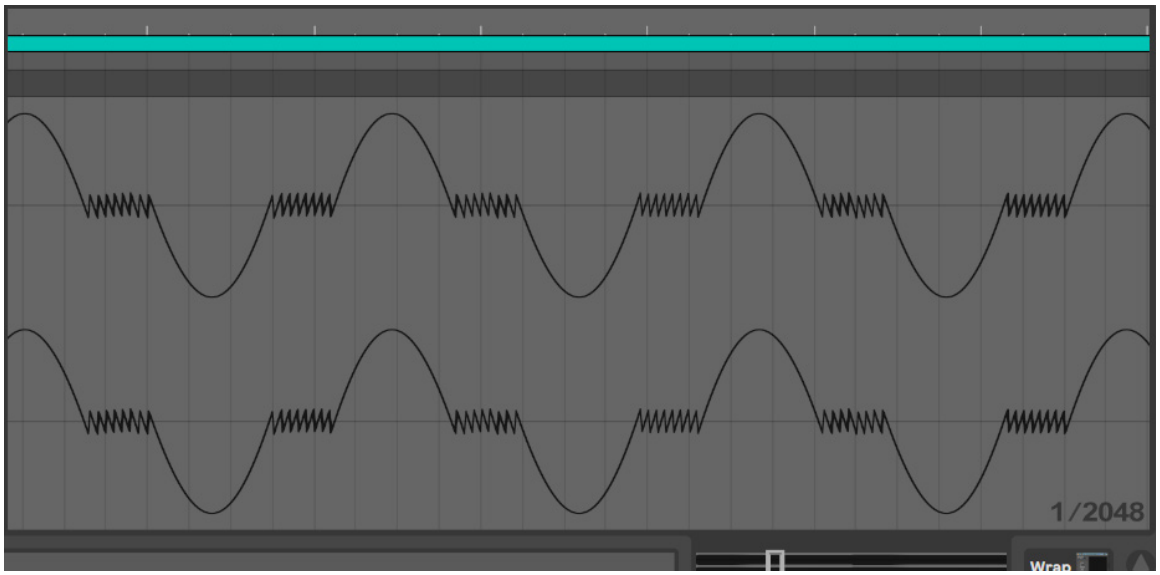
25dB 2 Stage Wrap with 12dB Output Gain



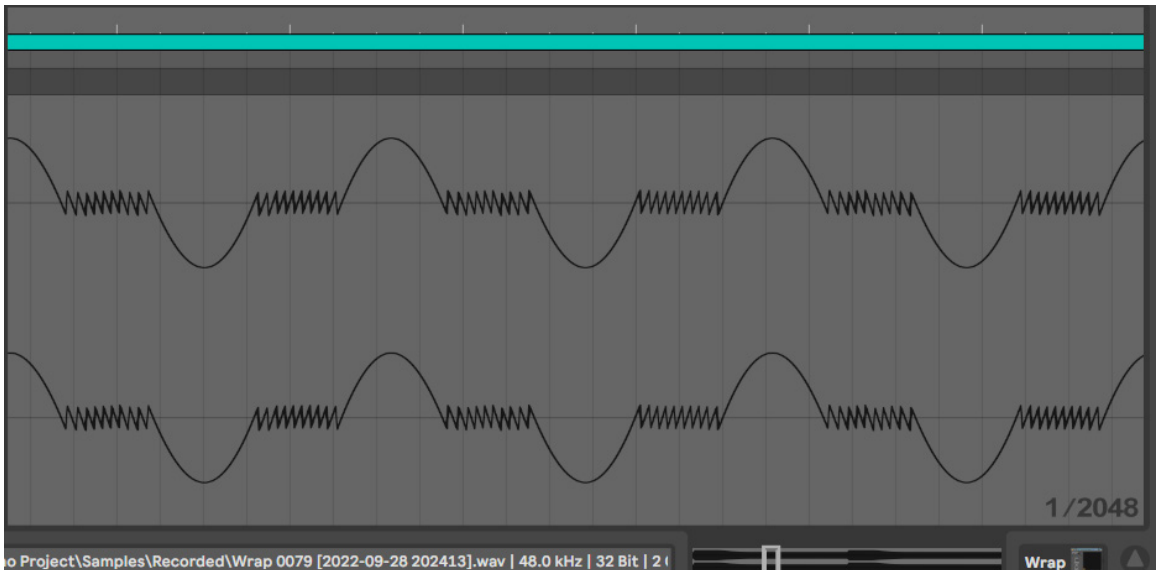
30dB 2 Stage Wrap with 12dB Output Gain



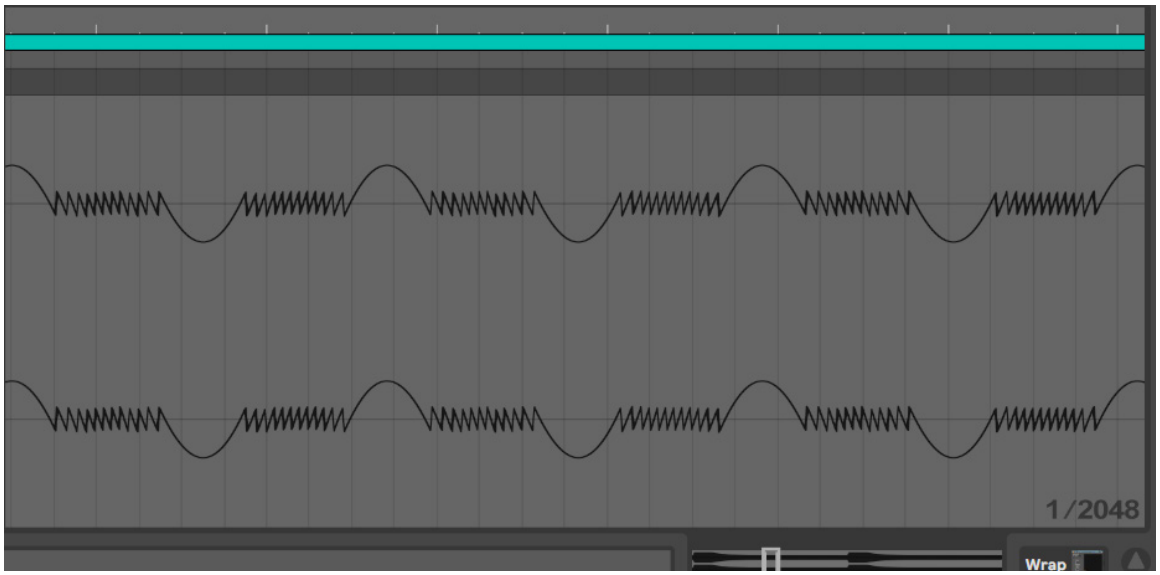
30dB 3 Stage Wrap with 12dB Output Gain



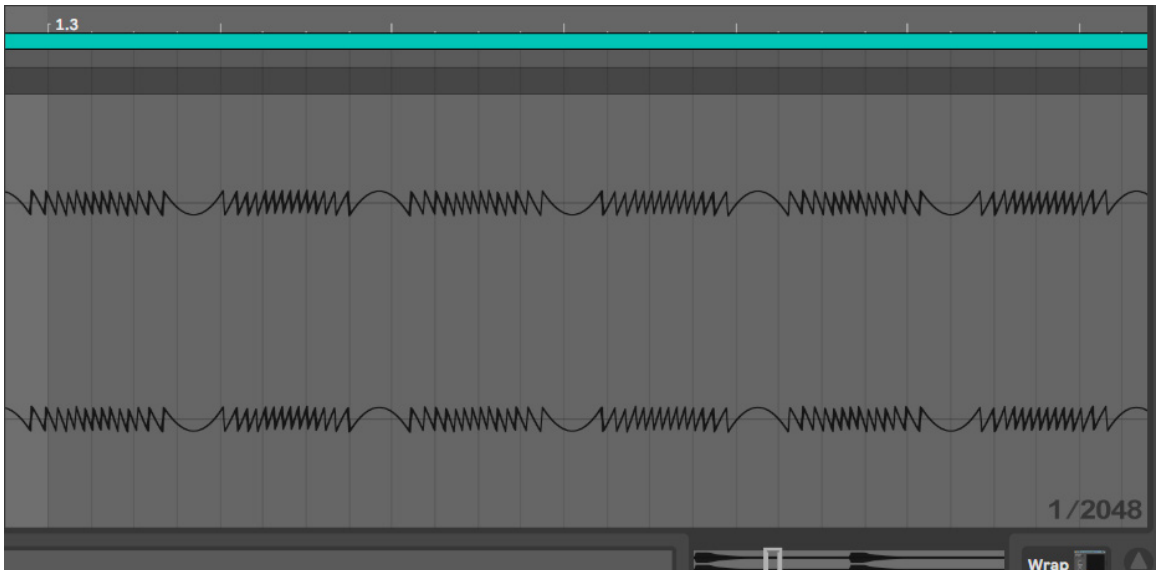
30dB 4 Stage Wrap with 12dB Output Gain



30dB 5 Stage Wrap with 12dB Output Gain

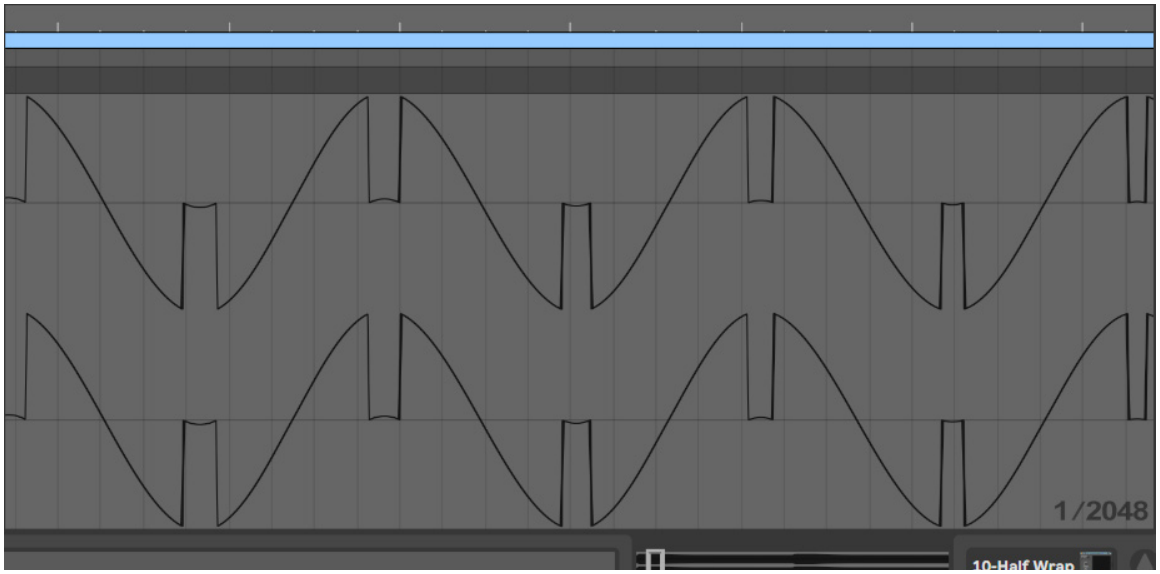


30dB 6 Stage Wrap with 12dB Output Gain

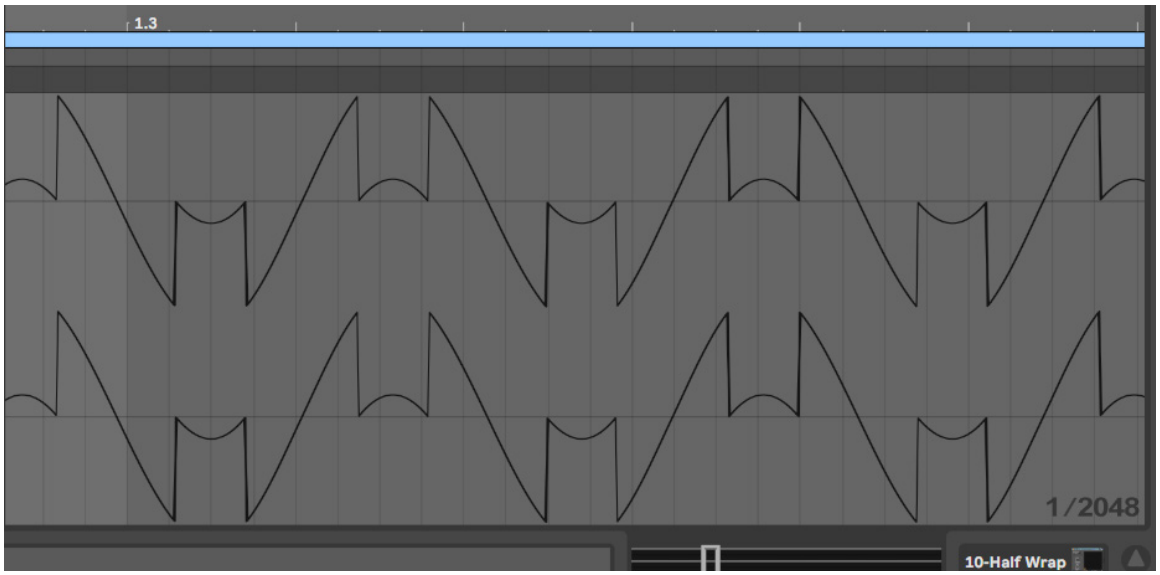


Half Wrap

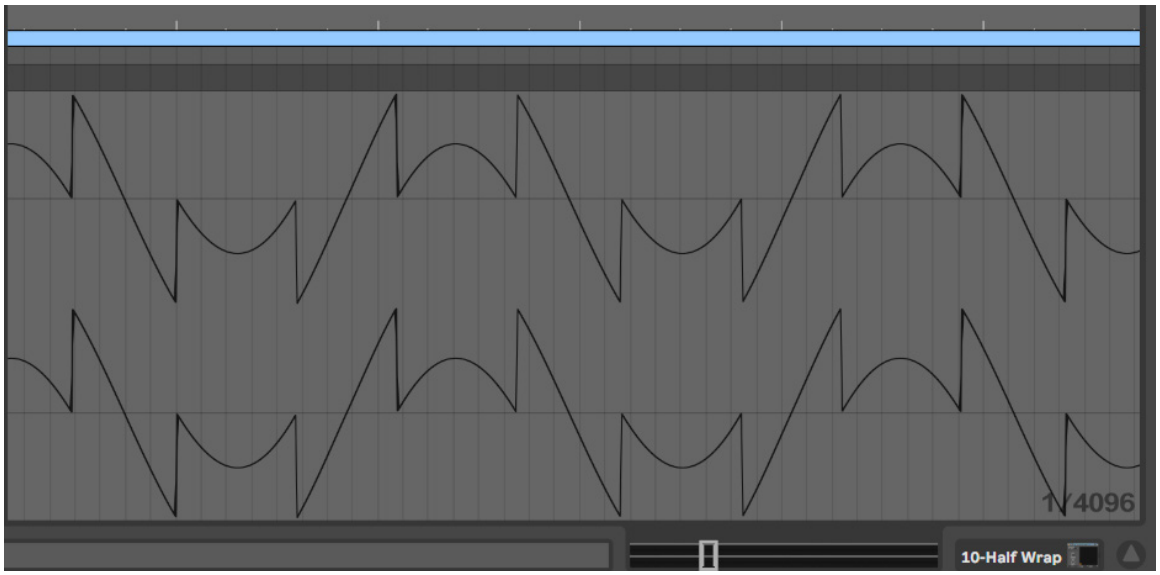
4dB 16 Stage Half Wrap with 30dB Output Gain



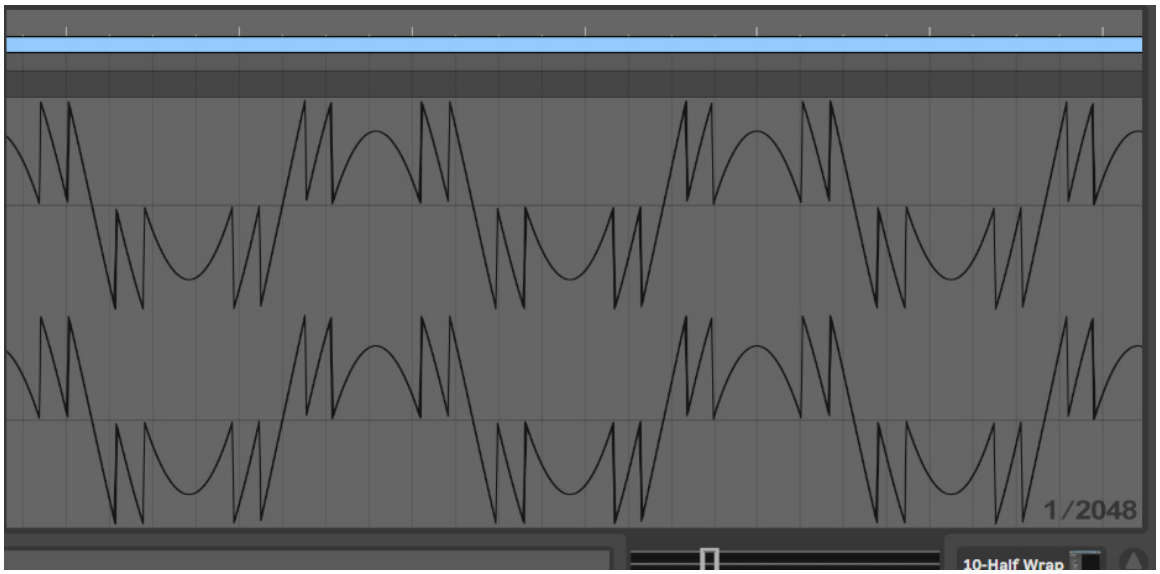
8dB 16 Stage Half Wrap with 30dB Output Gain



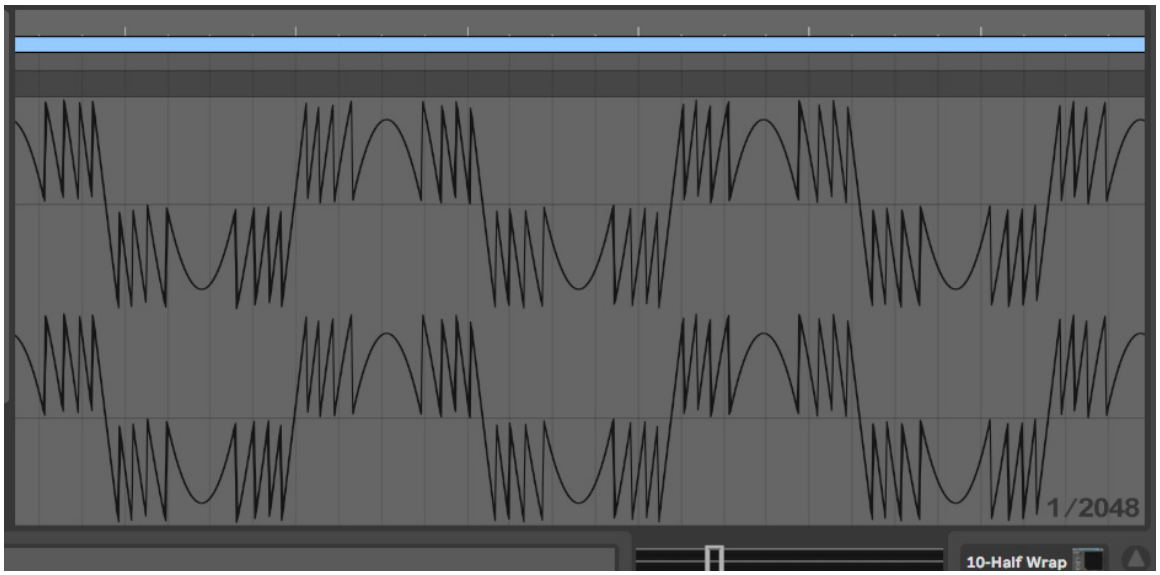
10dB 16 Stage Half Wrap with 30dB Output Gain



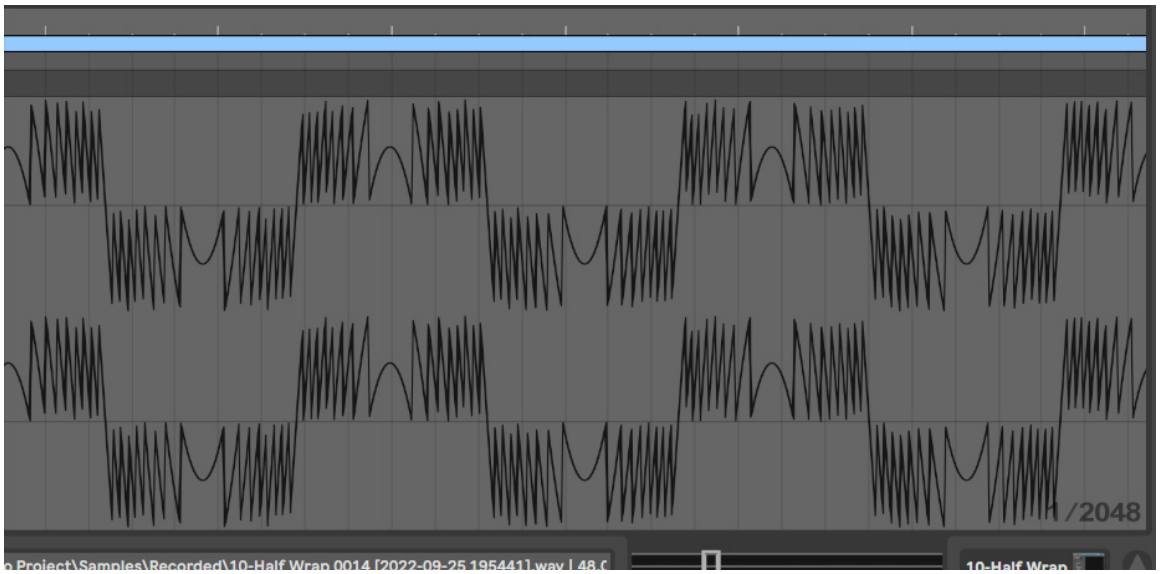
15dB 16 Stage Half Wrap with 30dB Output Gain



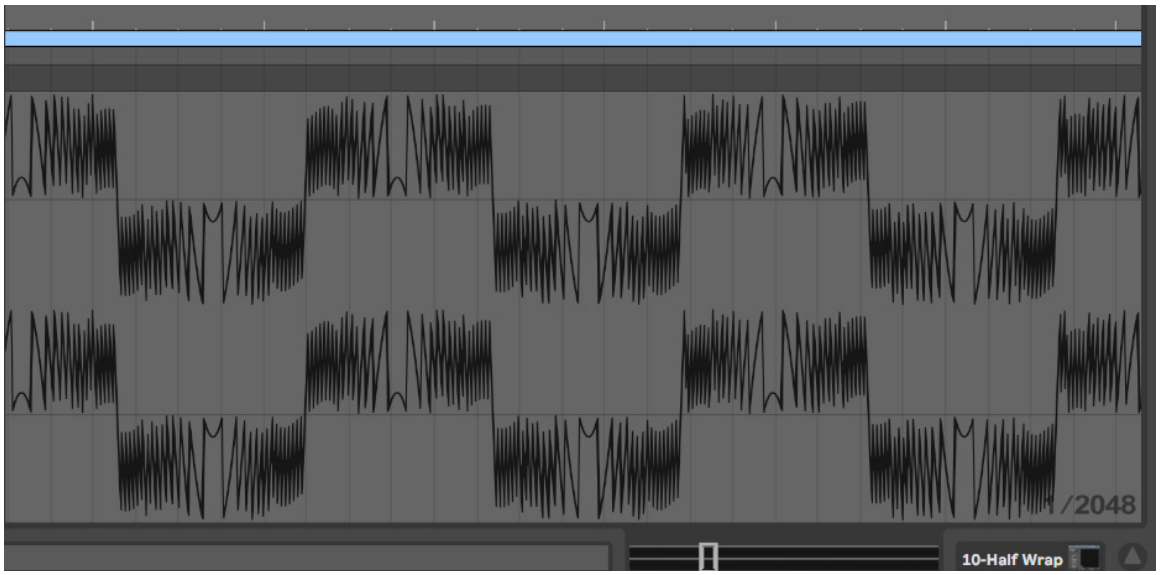
20dB 16 Stage Half Wrap with 30dB Output Gain



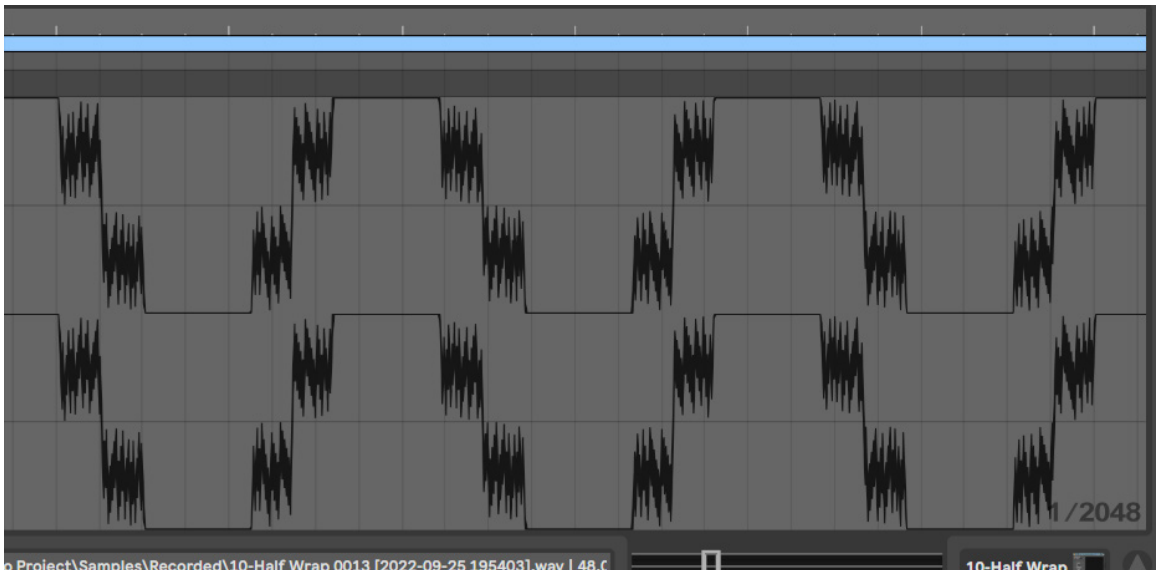
25dB 16 Stage Half Wrap with 30dB Output Gain



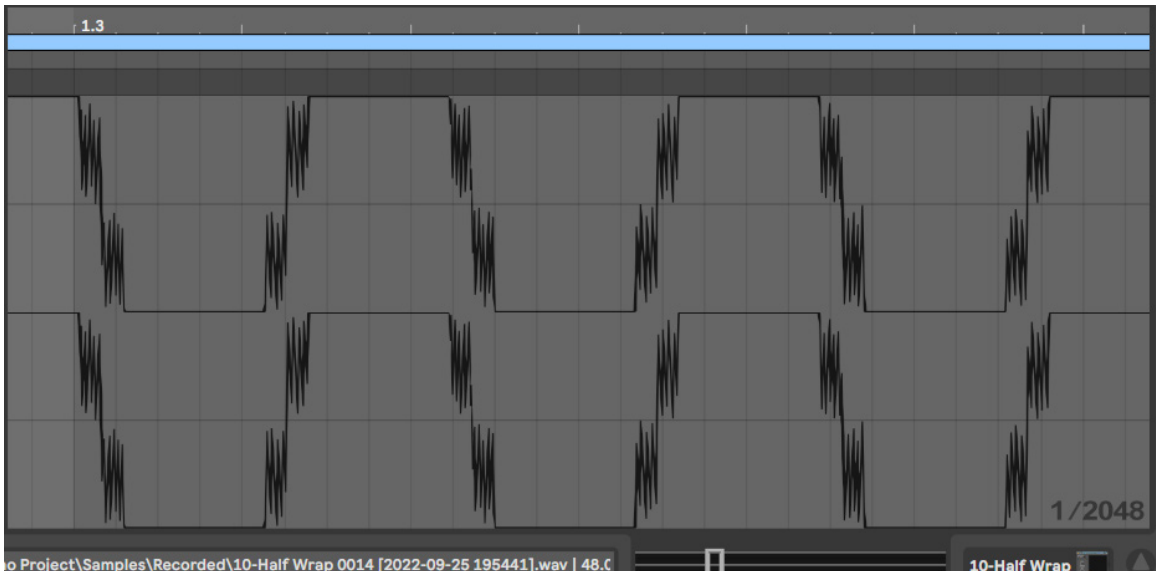
30dB 16 Stage Half Wrap with 30dB Output Gain



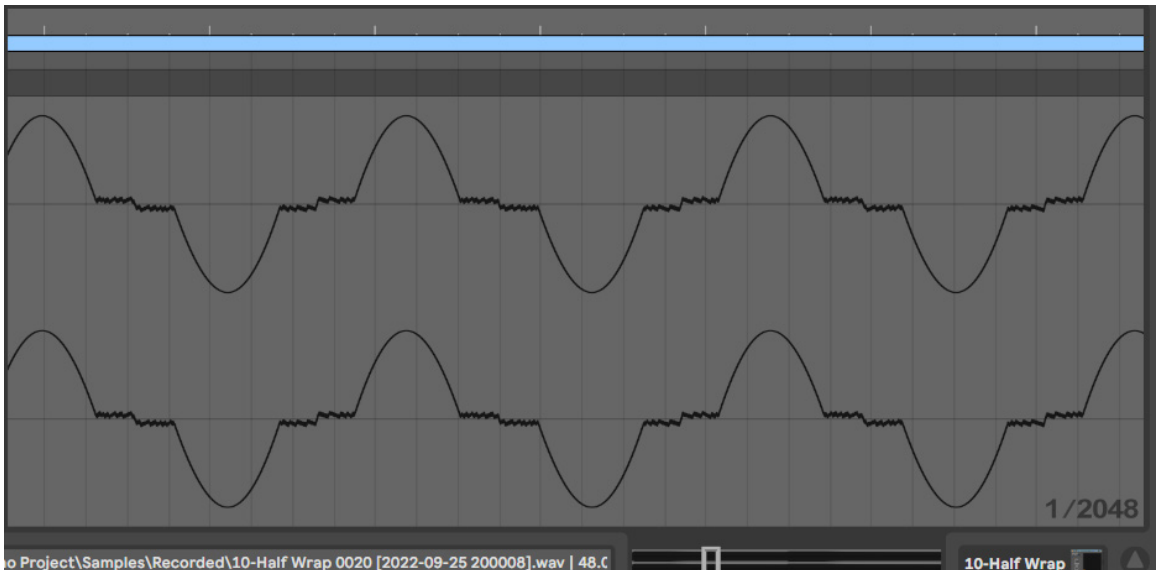
35dB 16 Stage Half Wrap with 30dB Output Gain



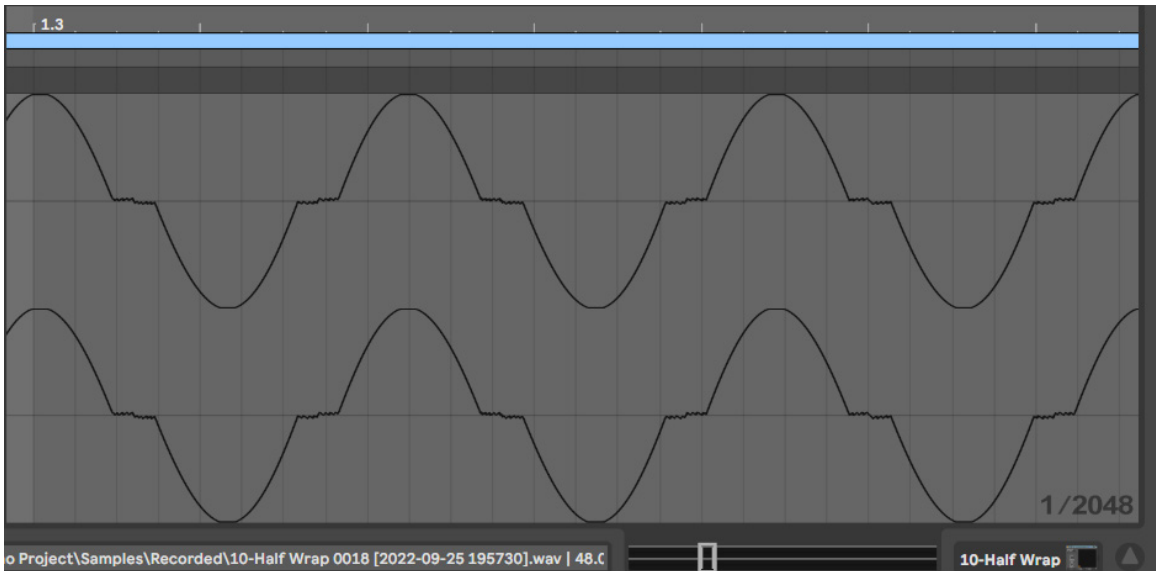
40dB 16 Stage Half Wrap with 30dB Output Gain



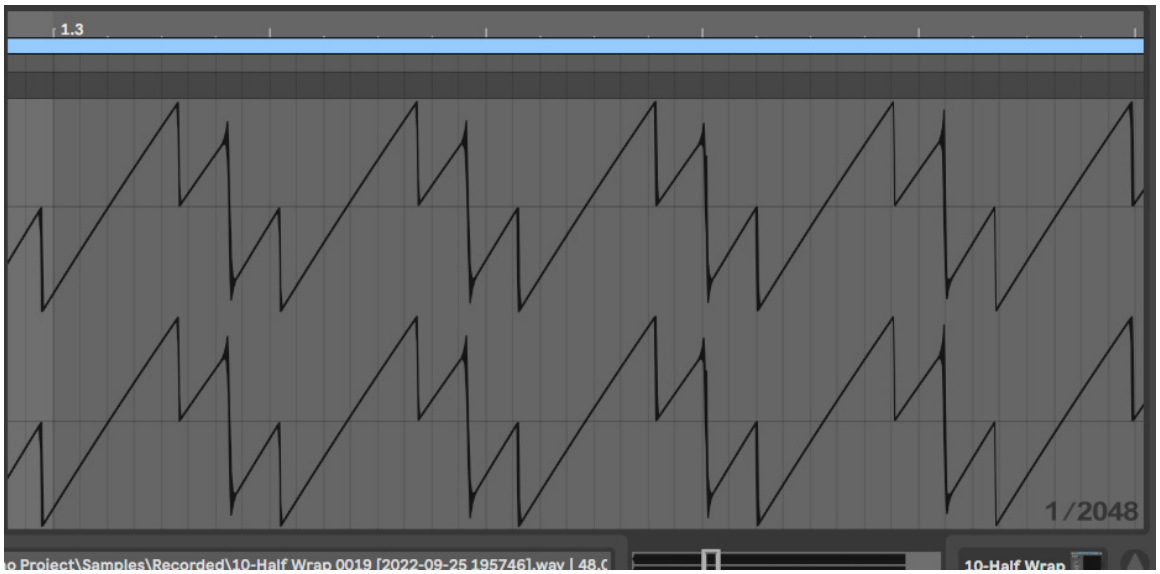
35dB 16 Stage Half Wrap with 7.6dB Output Gain



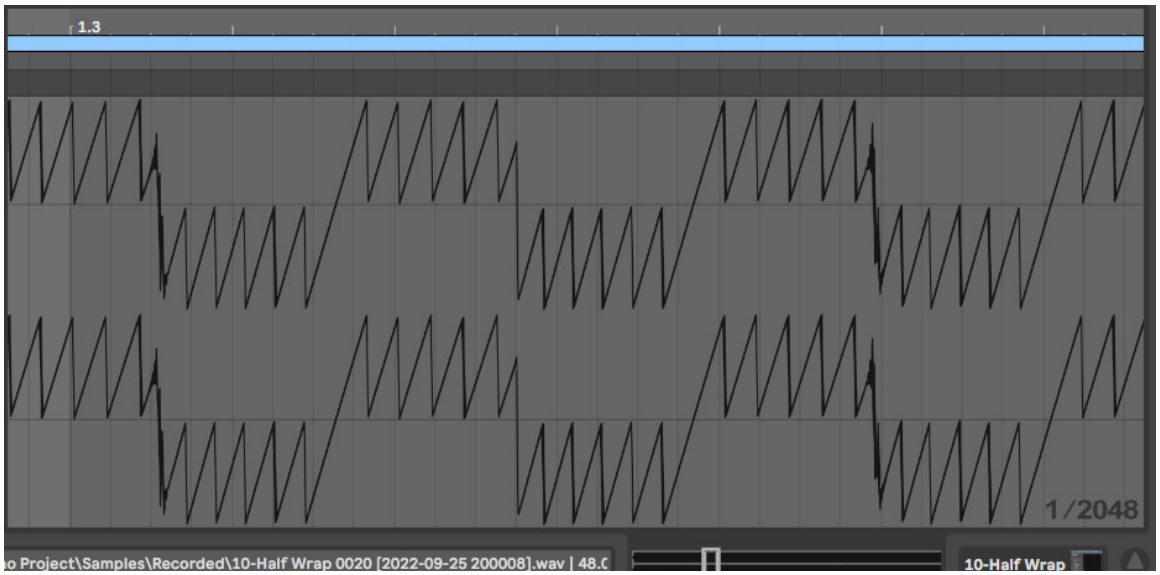
40dB 16 Stage Half Wrap with 0.1dB Output Gain



Saw Input Hard Sync Half Wrap 1

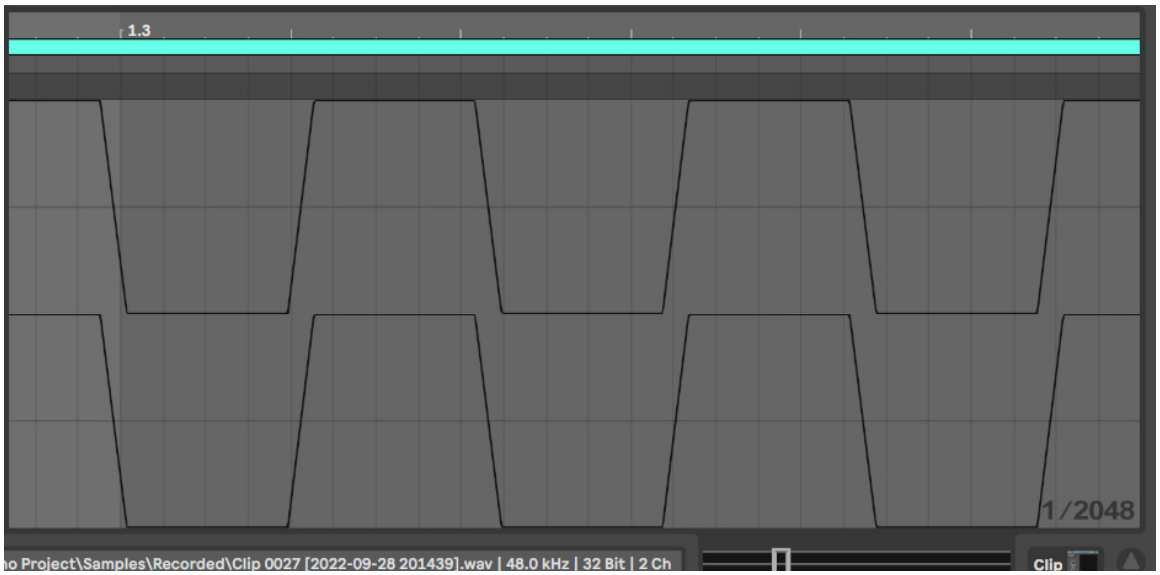


Saw Input Hard Sync Half Wrap 2

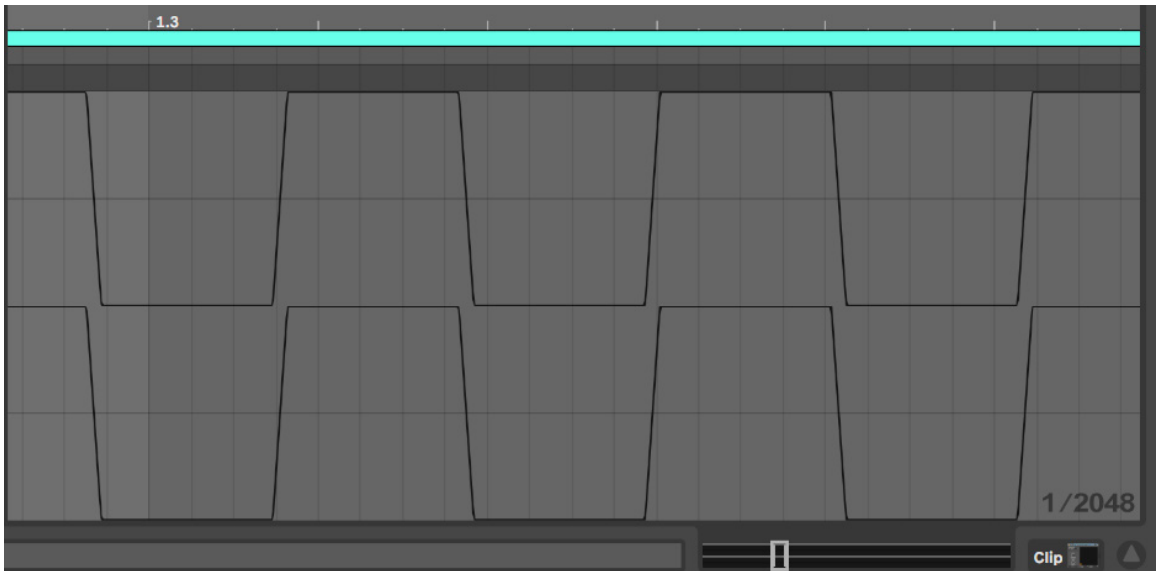


Clip

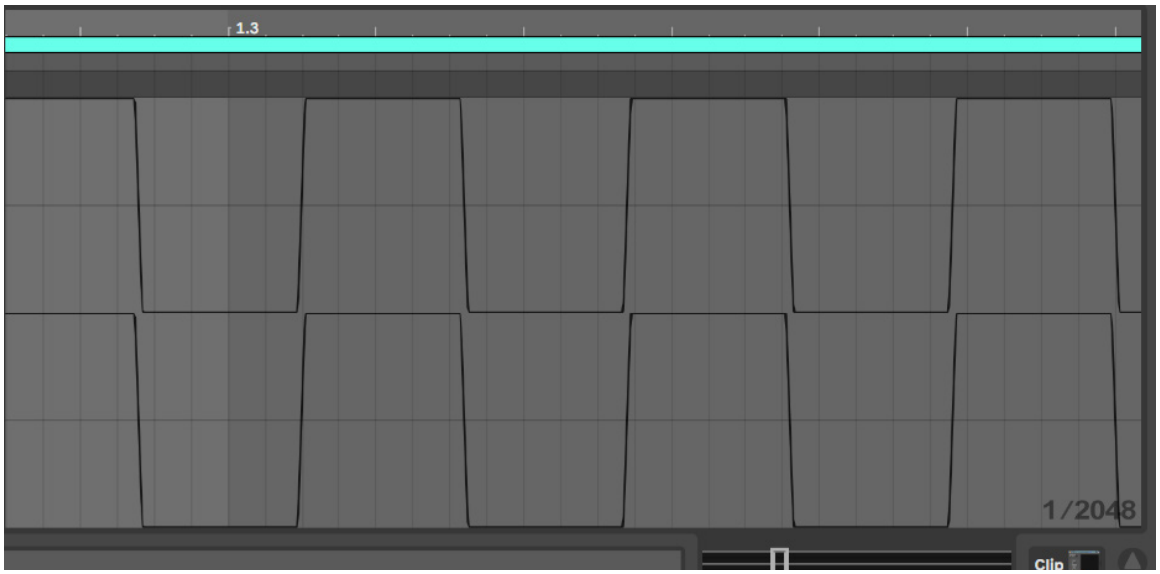
20dB 16 Stage Clip with 30dB Output Gain



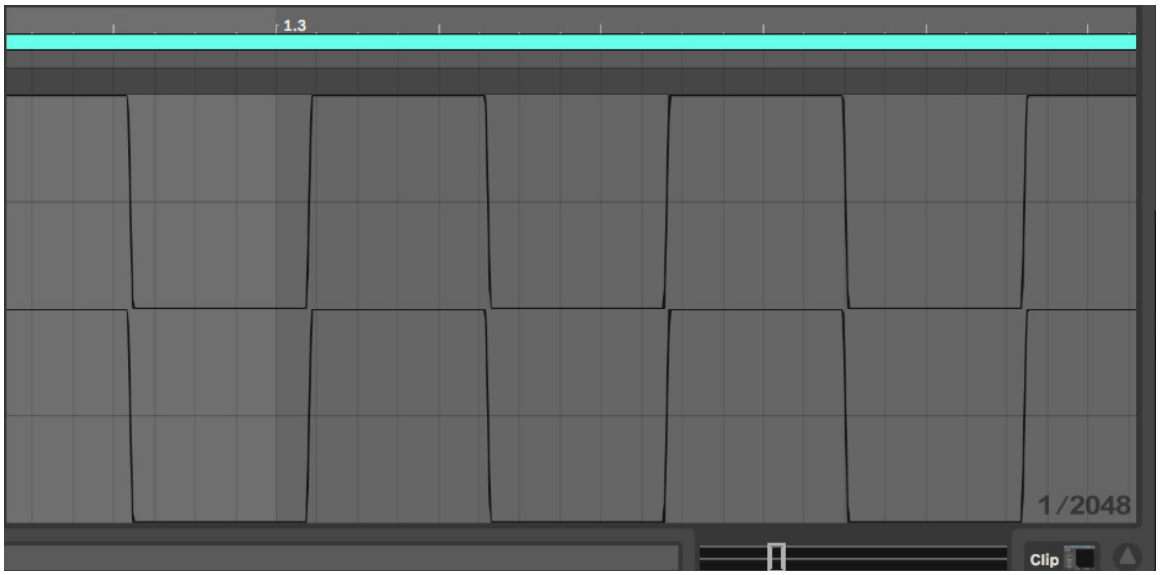
25dB 16 Stage Clip with 30dB Output Gain



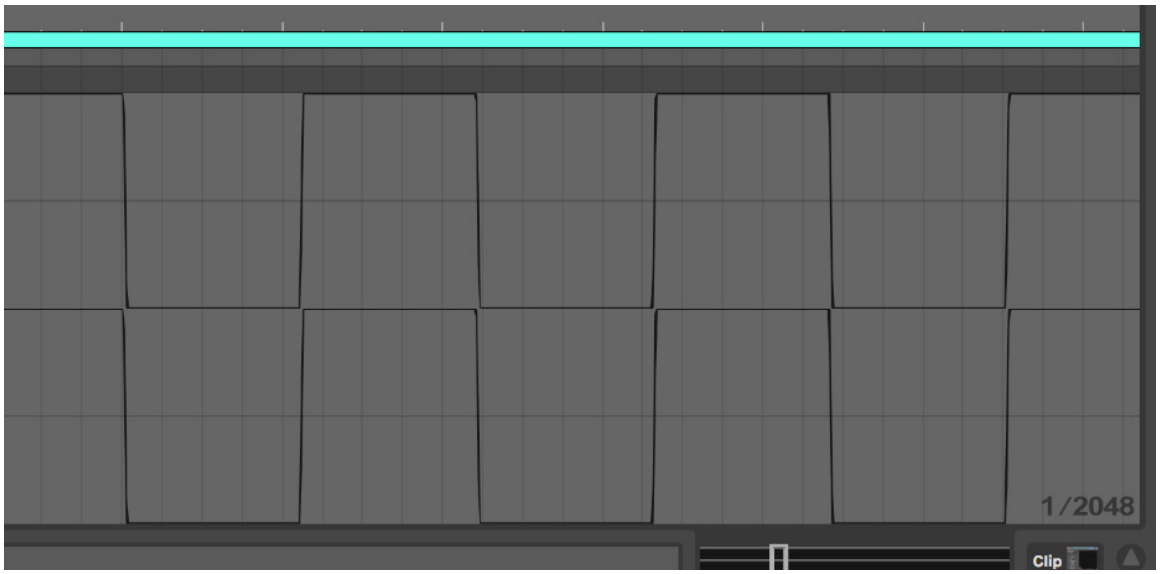
30dB 16 Stage Clip with 30dB Output Gain



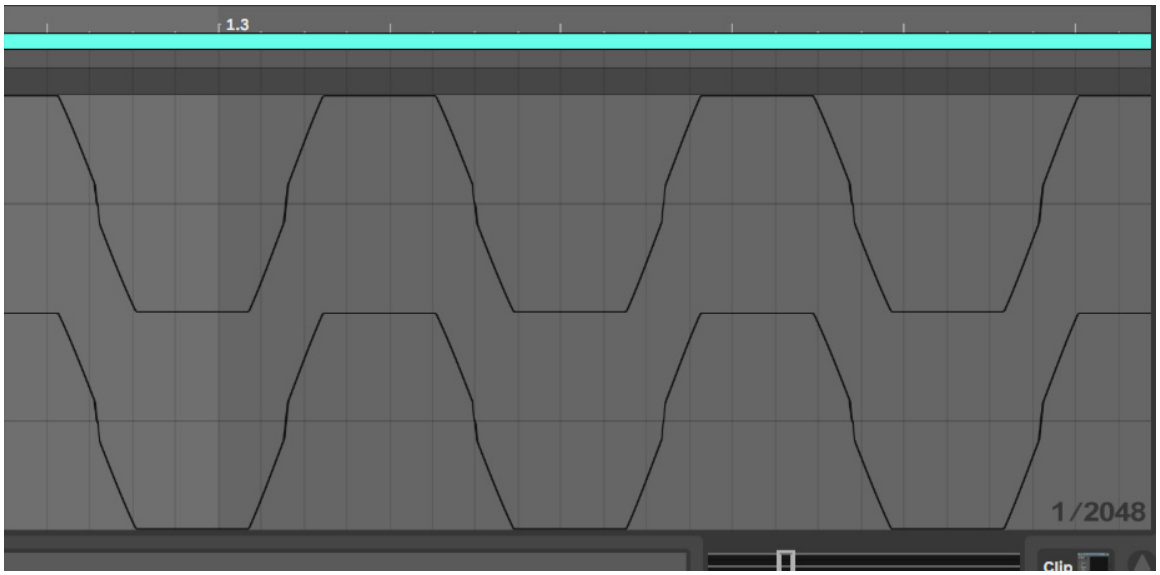
35dB 16 Stage Clip with 30dB Output Gain



40dB 16 Stage Clip with 30dB Output Gain



40dB 1 Stage Clip with 30dB Output Gain



For a demo of this algorithm visit https://youtu.be/tZ1oHBE3mUw