

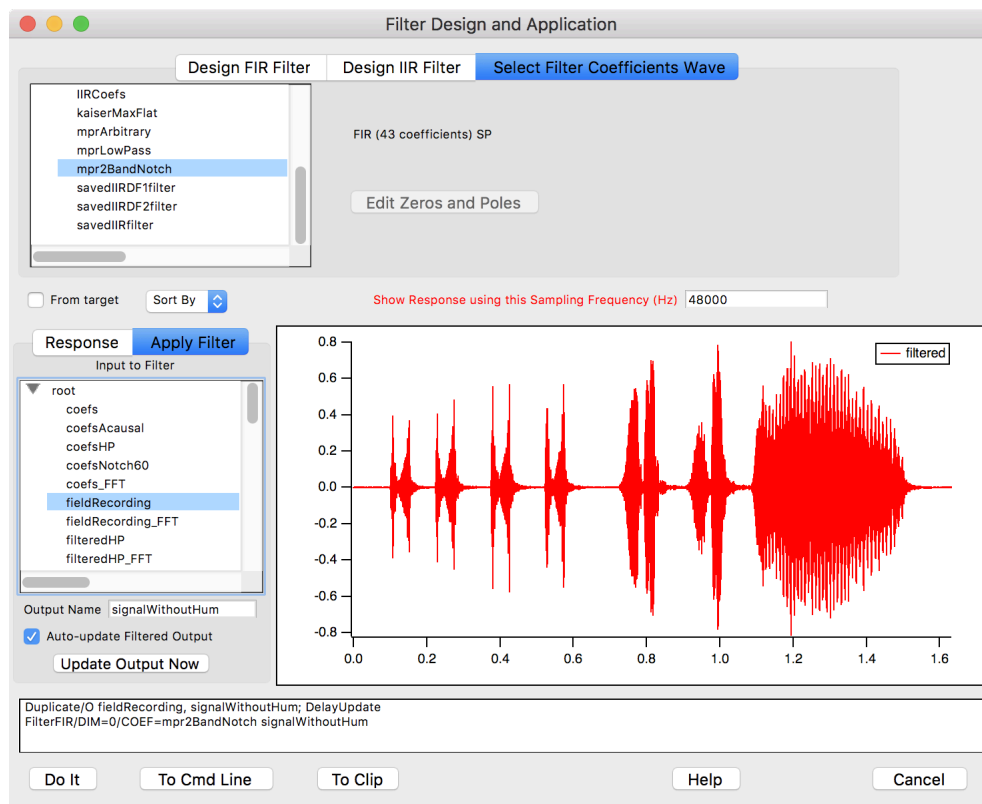
Chapter III-9 — Signal Processing

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Duplicate/O otherData, otherDataFiltered  
FilterFIR /DIM=0 /COEF=savedFIRfilter otherDataFiltered
```

Select Filter Coefficients Wave

This section shows how to apply a saved FIR or IIR filter to other data using the Filter Design and Application Dialog dialog.

1. Select the saved filter design wave in the Select Filter Coefficients Wave tab of the dialog.
2. Select the wave to be filtered from the Apply Filter tab below.



Example: High Pass FIR Filter

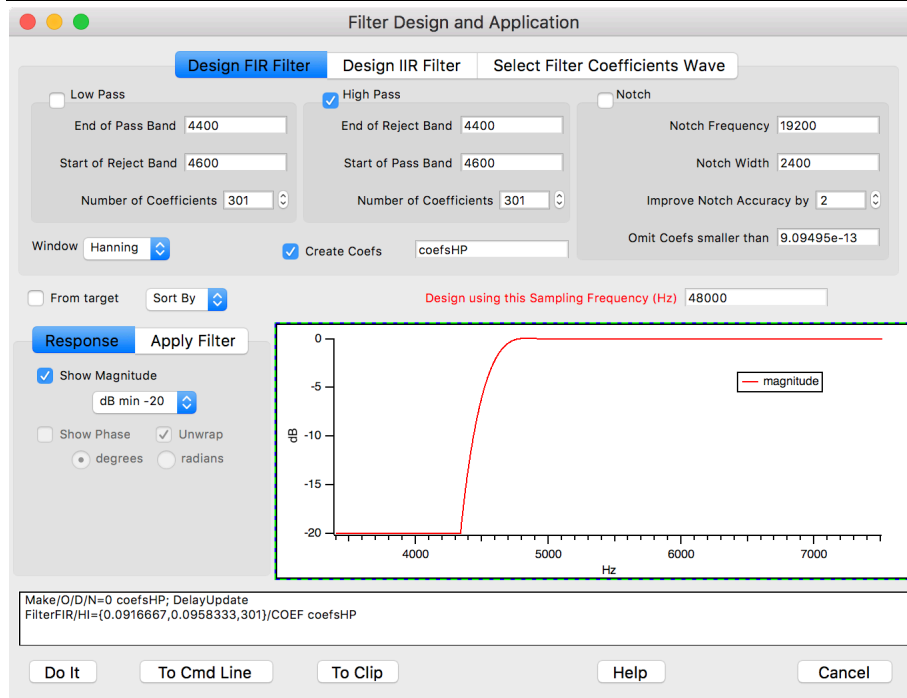
Next we design a high pass filter that preserves only the signal components that were removed by the low pass filter.

Choose Analysis→Filter and set "Design using this Sampling Frequency (Hz)" to 48000.

Uncheck Low Pass, check High Pass, and leave uncheck Notch.

Choosing High Pass FIR Band Frequencies

Set the End of Reject Band to 4400 and set Start of Pass Band to 4600 to define the same transition band as the low pass filter that we created above. Use 301 terms to get a steep transition between rejecting low frequencies and passing high frequencies:



Click the Apply Filter tab to see the result of applying the designed filter to a waveform. Select the fieldRecording wave and click Update Output Now:

