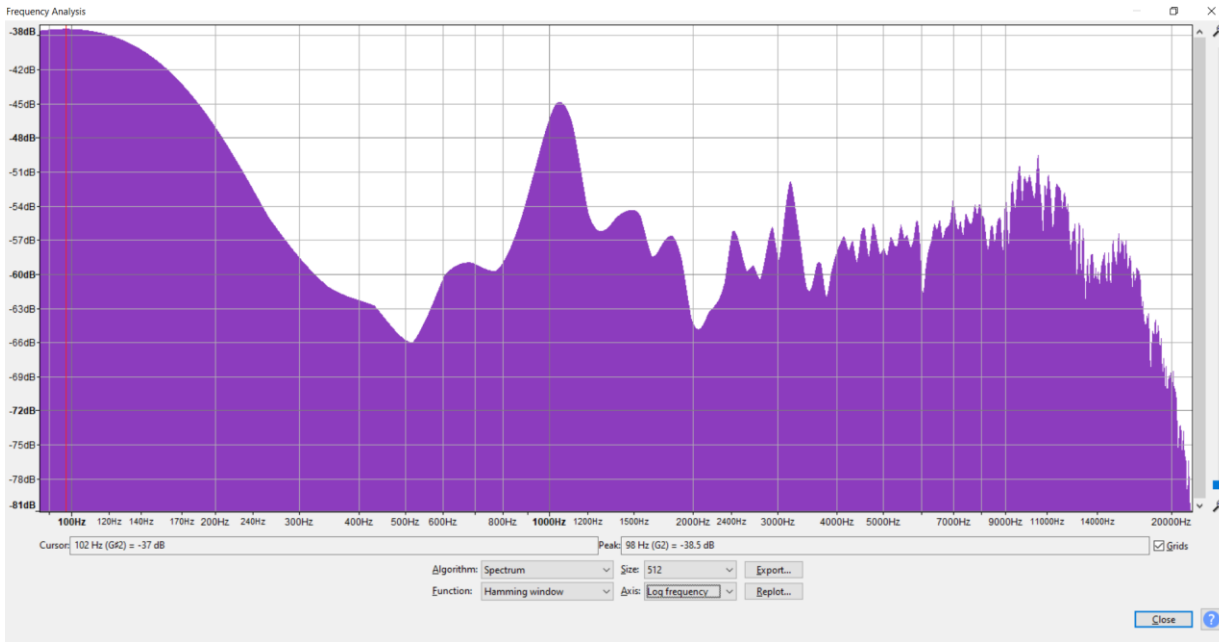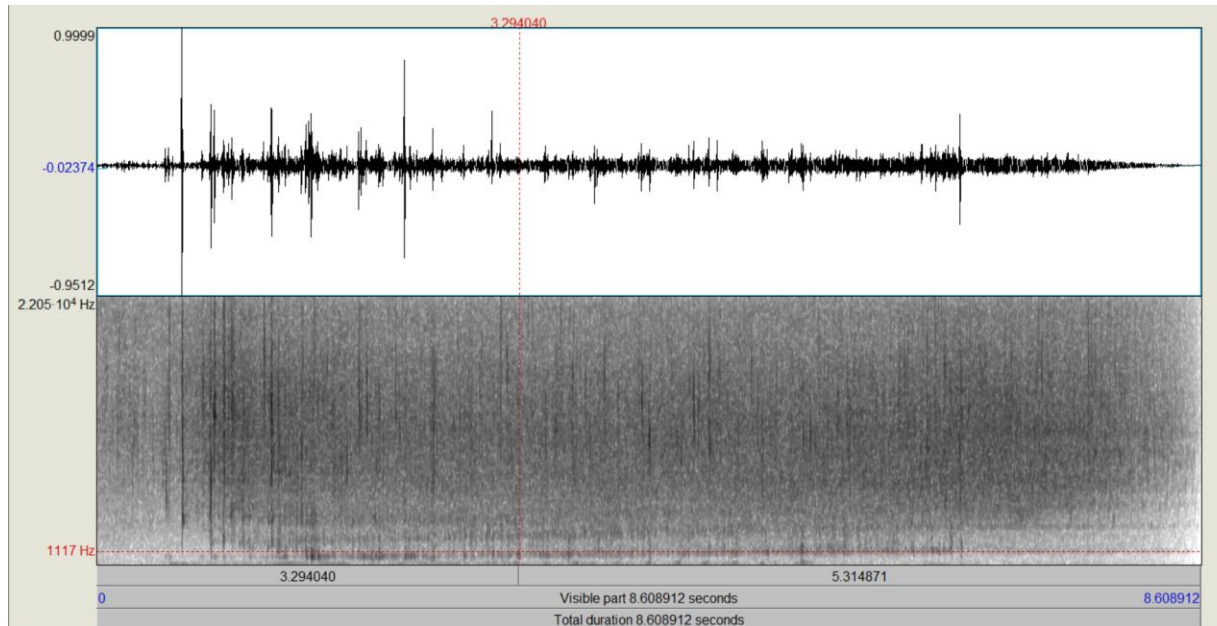# Analysis of Pouring Carbonated Drink

- Model water flow as random changes in the frequency of a sinusoid. However, the changes in frequency must monotonically increase with time.
- Simulate the resonances in the spectrum using large Q band pass filters
- Simulate the clop using pulses of sinusoid of certain attack and decay characteristic
- Simulate the fizz using noise filtered by a high pass filter

🔊 real

🔊 simulated

References

- Andy Farnell. 2010. Designing Sound. The MIT Press.
- https://www.soundonsound.com/techniques/synthesizing-bells