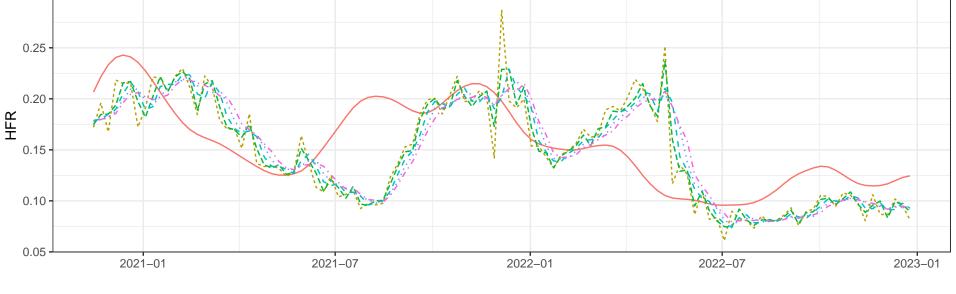Varying window lengths, convolutional ratio