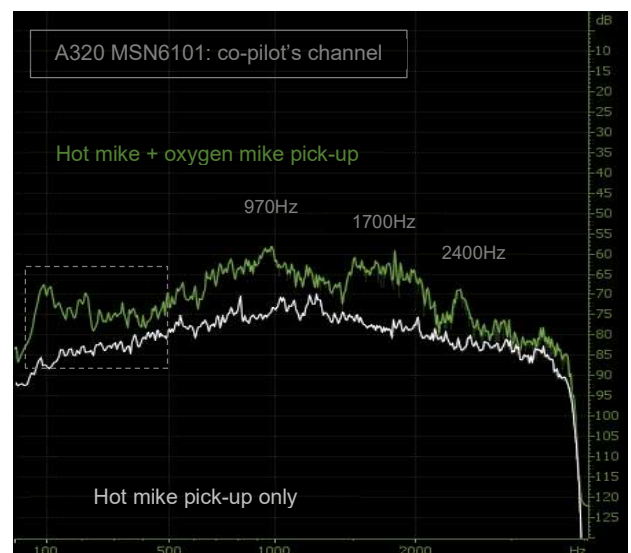


## Audio pick-up by oxygen mask microphone

Listening to samples of audio recordings of oxygen mask activity on the A320 (and on other models, A330, A350, A380) makes it possible to describe, from a psychoacoustic point of view, the pick-up by the oxygen mask microphone as muffled and hollow.

The analysis of the frequency spectrum shows that the sound picked up by the oxygen mask microphone has the following acoustic signature on the A320:

- A LF energy bump from 100 to 500 Hz on average
- A pseudo sawtooth PSD spectrum
- A few (3 or 4) energy bumps distributed between 900 and 2400 Hz



**Acoustic signature of audio pick-up by the oxygen mask microphone - Detailed PSD views of samples from pilot channels (with and without active oxygen microphone).**

A similar acoustic signature was observed on the noise spectrum of the MS804 CVR.