

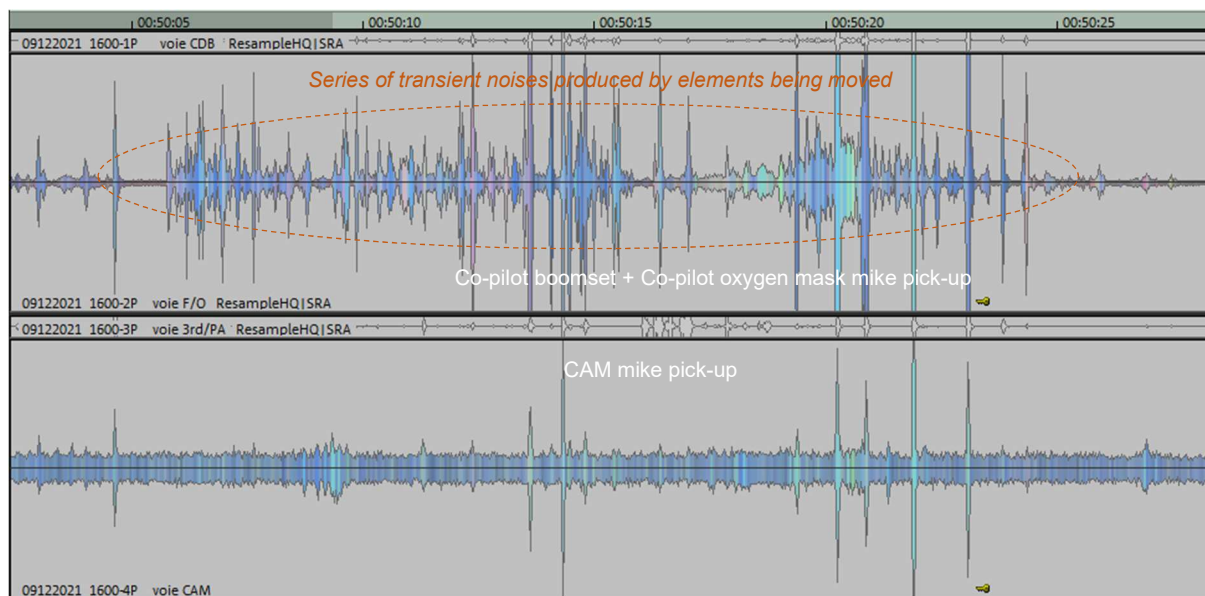
Perception of sound events broadcast by the co-pilot's loudspeaker when the co-pilot's oxygen mask microphone was active

Note: the door of the co-pilot's oxygen mask storage box was opened and then closed again (with no reset) to activate the pick-up by the oxygen mask microphone.

The volume of the co-pilot's loudspeaker was set to maximum, and actions were carried out near the mask storage box (object thrown into the doc storage compartment, document removed, box door moved, oxygen mask knob touched, etc.).



The waveform below shows, for the audio signal of the co-pilot channel, the predominance of transient noises produced by these different actions.



Findings:

The noise from elements being moved (transient noises) were broadcast on the co-pilot's LS and were perceptible by an operator sat in the co-pilot's seat. They were picked up to a small extent or not at all by the CAM microphone (with the exception of those which were loud). This phenomenon can possibly be explained by the position of the CAM at the base of the overhead panel, set back from the vertical of the instrument panel (i.e. the FCU console masks the sound cone of the loudspeakers).

Similar events were detected on the CVR co-pilot channel of flight MS804.