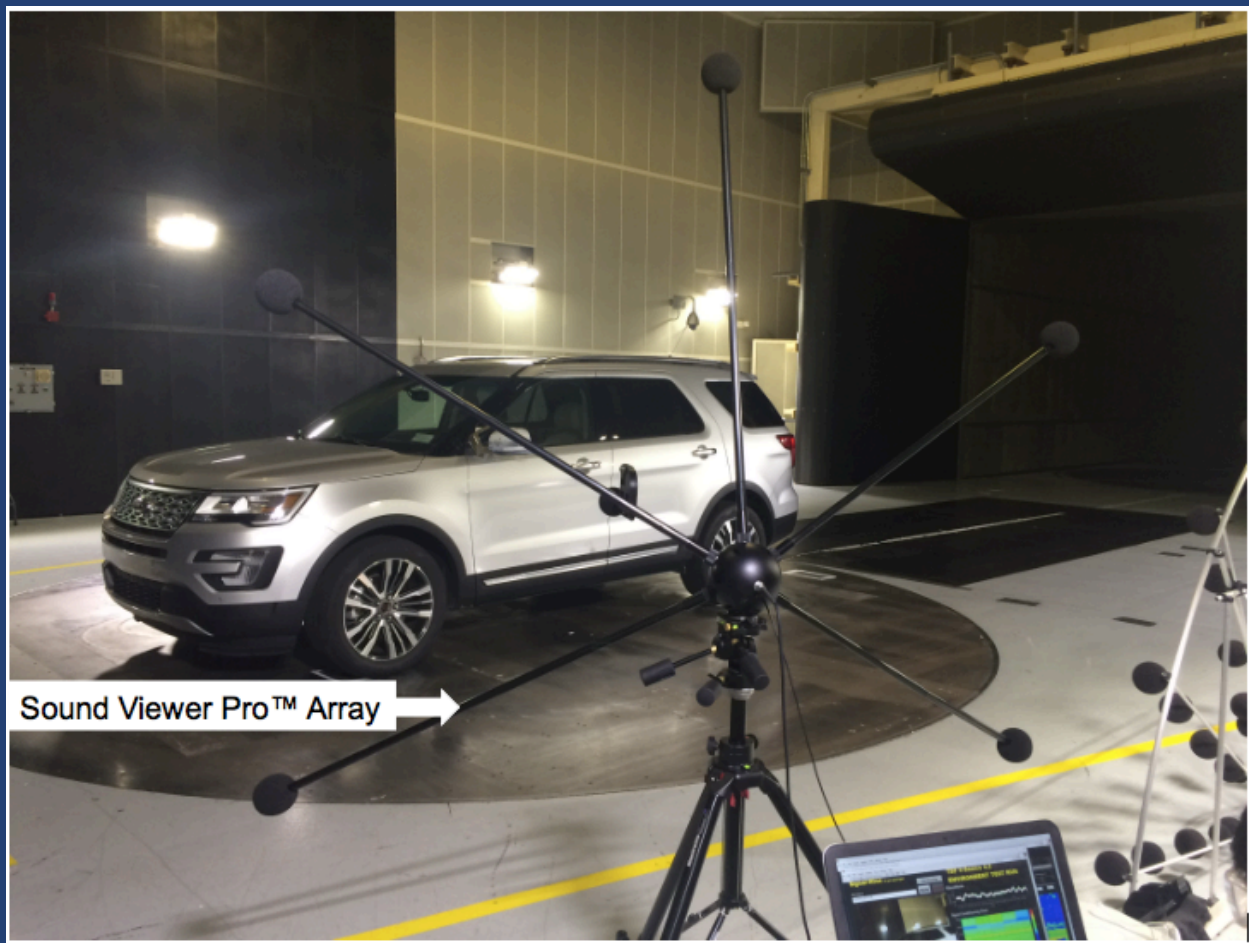


Signal-Wise: we get the signal right

Sound Viewer

Wind Tunnel Tests

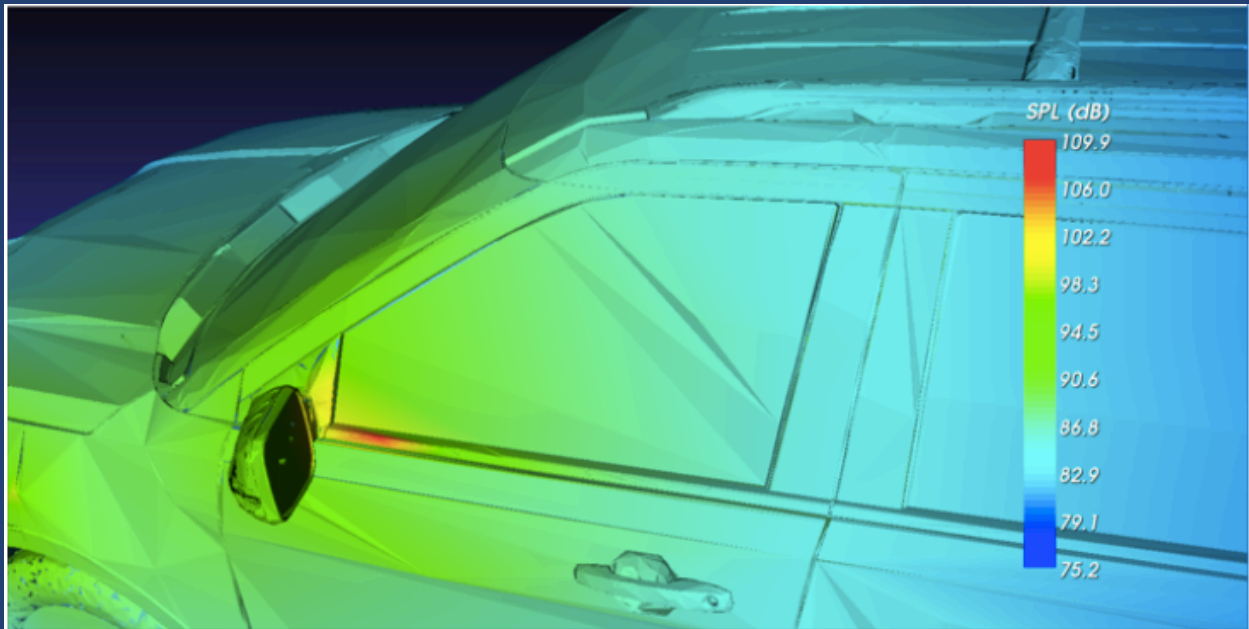
Sound Viewer is capable of handling both airborne and structure-borne sounds, non-stationary and stationary sounds over the frequency range of 20 – 20,000 Hz.



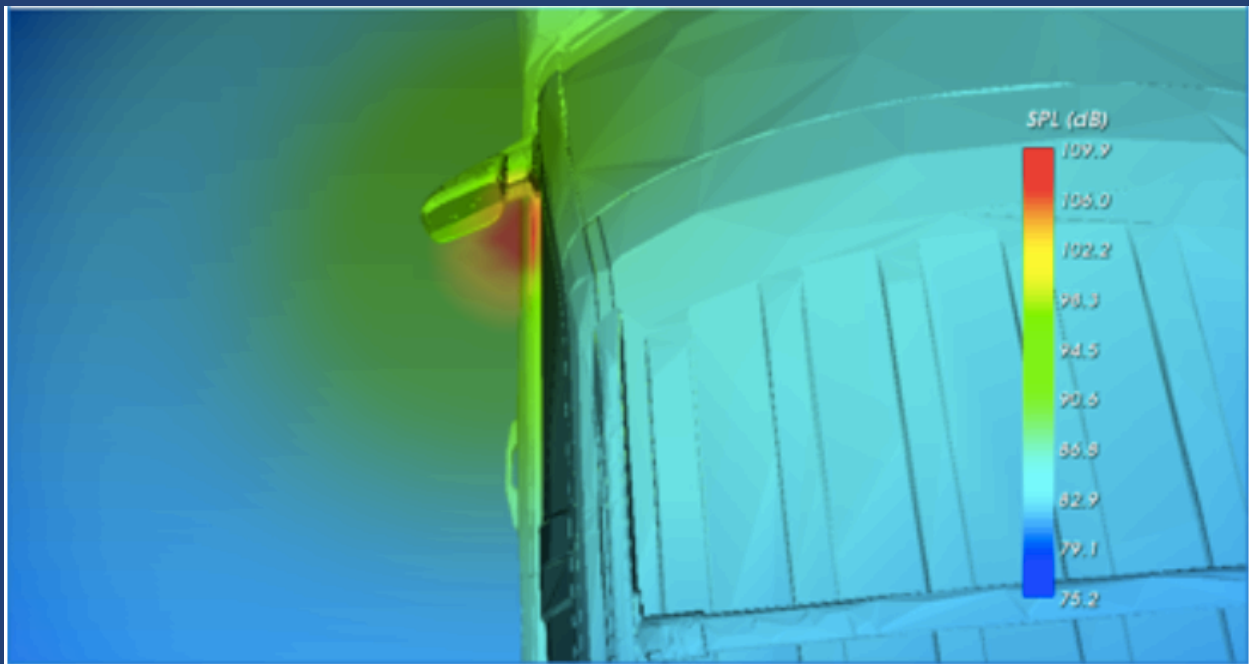
Sound Viewer is capable of reconstructing the acoustic pressure and the time-averaged normal acoustic intensity vector distributions on an arbitrarily shaped object or the entire structure,¹ and is suited for wind tunnel tests to locate multiple sound sources in 3D space simultaneously over the frequency range of 20 – 20,000 Hz.

¹ Provided that the 3D model of the structure is available. This 3D model can be generated by CAD or using a 3D scanner, which are not included in the Sound Viewer Advanced Module package.

Signal-Wise: we get the signal right



Sound Viewer enables one to acquire the acoustic pressure distribution over the surface of a full-size automobile during the wind tunnel test. In this case, the vehicle was set at zero yaw angle and flow speed was 130 kph. The most dominant flow noise was identified behind the rearview mirror.



Top view of the acoustic pressure distribution on a horizontal plane behind the rearview mirror, which showed the location where turbulences generated sounds were the strongest.