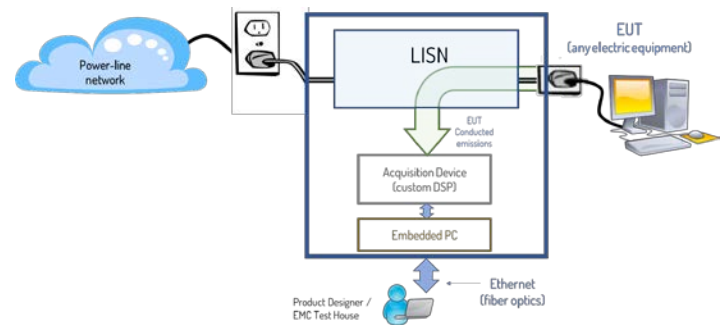
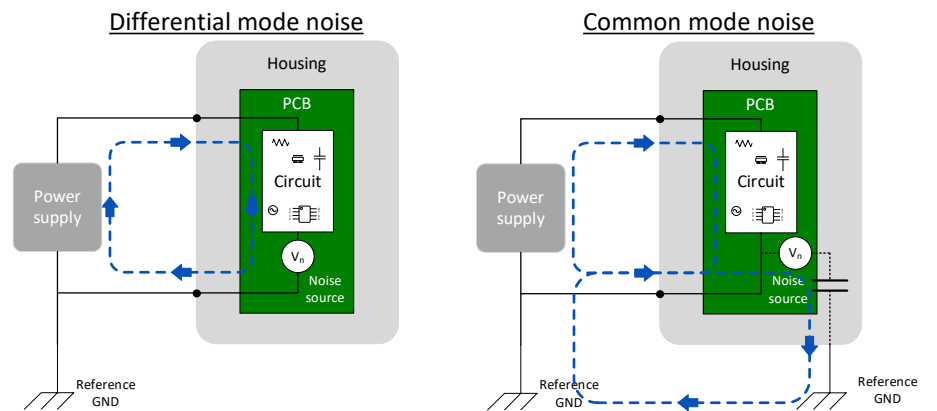
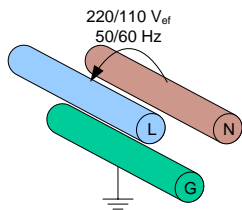


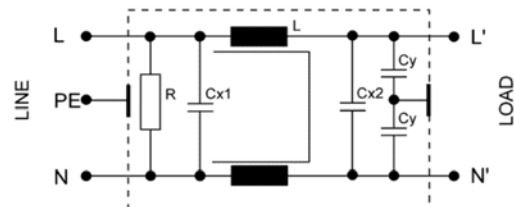
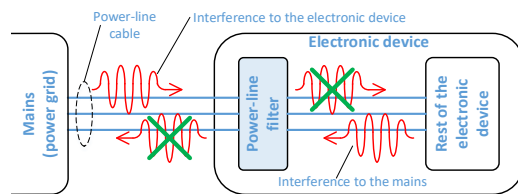
EMSCOPE is a new time-domain instrument for conducted emissions that provides direct information on the common-mode and differential-mode emissions. This poster shows the measurement results obtained from an actual EUT and how this information is essential to build the suitable power-line filter.



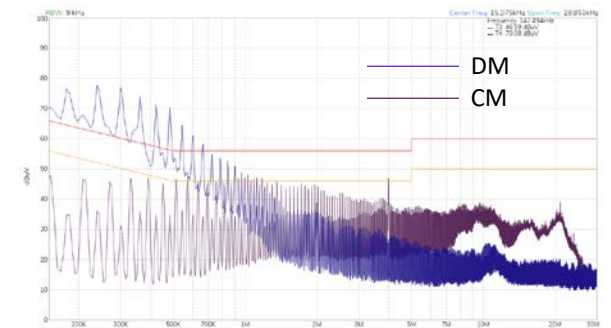
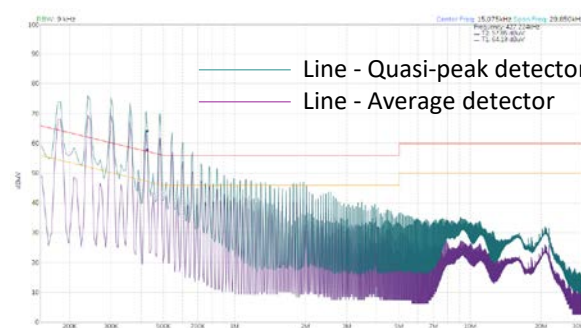
### Decomposition of power-line signals into modal signals



The modal decomposition allows to identify the dominant mode and to find the suitable components for the power-line filters:



EMSCOPE measures and shows the modal emissions of an EUT, helping then in the design of the power-line filter. Example:



As shown above, the dominant mode is de DM. Placing a 220 nF cap between line and neutral is enough to meet the CISPR thresholds:

