Centralized MWF noise reduction -- $\beta = 0.999938$ $\hat{d}_1(t,f)$ $y_1(t, f)$ $d_1(t, f)$ 8.0 -7.0 --20 6.0 -- -40 5.0 *f* [kHz] - -60 3.0 --80 2.0 -- 100 1.0 -0.0 12.5 2.5 10.0 0.0 2.5 5.0 10.0 12.5 0.0 5.0 7.5 7.5 0 *t* [s] *t* [s] t [s]