

Process	Before preselection	After FH preselection (efficiency)
$\gamma\gamma$ +jets	302978	6247 (2.1%)
$t\bar{t}\gamma$ +jets	765	402 (52.5%)
γ +jet	830909	2466 (0.002%)
$t\bar{t}$ +jets	23.6	18.8 (55.1%)
ggF $H\rightarrow\gamma\gamma$	2227	18.4 (0.83%)
$t\bar{t}H\rightarrow\gamma\gamma$	23.9	14.4 (60.5%)
VBF $H\rightarrow\gamma\gamma$	158.2	1.07 (0.675%)
VH $\rightarrow\gamma\gamma$	85.6	4.44 (5.2%)
FH $HH\rightarrow WW\gamma\gamma$	0.3012	0.0966 (32%)