

Category	Sub-categories	Selection
Global selection	-	$p_{T1} > 25 \text{ GeV}, p_{T2} > 10 \text{ GeV}$ (2016) or 13 GeV $p_T^{\text{miss}} > 20 \text{ GeV}, p_T^{\ell\ell} > 30 \text{ GeV}, m_{\ell\ell} - m_Z > 15 \text{ GeV}$ ee or $\mu\mu$ pair with opposite charge No b-tagged jets with $p_T > 20 \text{ GeV}$
0-jet ggH tagged	ee	$m_{\ell\ell} < 60 \text{ GeV}, m_T^H > 90 \text{ GeV}$
	$\mu\mu$	$ \Delta\phi_{\ell\ell} < 2.3$, DYMVA above threshold
	W ⁺ W ⁻ CR	As SR, $m_{\ell\ell} > 100 \text{ GeV}$ $m_T^H > 60 \text{ GeV}, m_T(\ell 2, p_T^{\text{miss}}) > 30 \text{ GeV}$
	Top CR	As SR, $m_{\ell\ell} > 100 \text{ GeV}, m_T(\ell 2, p_T^{\text{miss}}) > 30 \text{ GeV}$ At least one b-tagged jet with $20 \text{ GeV} < p_T < 30 \text{ GeV}$
1-jet ggH tagged	ee	$m_{\ell\ell} < 60 \text{ GeV}, m_T^H > 80 \text{ GeV}$
	$\mu\mu$	$ \Delta\phi_{\ell\ell} < 2.3$, DYMVA above threshold
	W ⁺ W ⁻ CR	As SR, $m_{\ell\ell} > 100 \text{ GeV}$ $m_T^H > 60 \text{ GeV}, m_T(\ell 2, p_T^{\text{miss}}) > 30 \text{ GeV}$
	Top CR	As SR, $m_{\ell\ell} > 100 \text{ GeV}, m_T(\ell 2, p_T^{\text{miss}}) > 30 \text{ GeV}$ At least one b-tagged jet with $p_T > 30 \text{ GeV}$
2-jet ggH tagged	ee	$m_{\ell\ell} < 60 \text{ GeV}, 65 \text{ GeV} < m_T^H < 150 \text{ GeV}$
	$\mu\mu$	DYMVA above threshold
	W ⁺ W ⁻ CR	As SR, $m_{\ell\ell} > 100 \text{ GeV}$ $m_T^H > 60 \text{ GeV}, m_T(\ell 2, p_T^{\text{miss}}) > 30 \text{ GeV}$
	Top CR	As SR, $m_{\ell\ell} > 100 \text{ GeV}, m_T(\ell 2, p_T^{\text{miss}}) > 30 \text{ GeV}$ At least one of the leading jets b-tagged