

Category	Sub-categories	Selection
Global selection	-	$p_{T1} > 25$ GeV, $p_{T2} > 10$ GeV (2016) or 13 GeV $p_T^{\text{miss}} > 20$ GeV, $p_T^{\ell\ell} > 30$ GeV, $m_{\ell\ell} > 12$ GeV $e\mu$ pair with opposite charge
	$\ell^\pm \ell^\mp$, $p_{T2} \leq 20$ GeV	$m_T^H > 60$ GeV, $m_T(\ell 2, p_T^{\text{miss}}) > 30$ GeV $p_{T2} \leq 20$ GeV No jet with $p_T > 30$ GeV No b-tagged jet with $p_T > 20$ GeV
0-jet ggH tagged	Top CR	As SR, no m_T^H requirement, $m_{\ell\ell} > 50$ GeV At least 1 b-tagged jet with 20 GeV $< p_T < 30$ GeV
	$\tau^+ \tau^-$ CR	As SR but with $m_T^H < 60$ GeV 30 GeV $< m_{\ell\ell} < 80$ GeV
	$\ell^\pm \ell^\mp$, $p_{T2} \leq 20$ GeV	$m_T^H > 60$ GeV, $m_T(\ell 2, p_T^{\text{miss}}) > 30$ GeV $p_{T2} \leq 20$ GeV 1 jet with $p_T > 30$ GeV No b-tagged jet with $p_T > 20$ GeV
1-jet ggH tagged	Top CR	As SR, no m_T^H requirement, $m_{\ell\ell} > 50$ GeV At least 1 b-tagged jet with $p_T > 30$ GeV
	$\tau^+ \tau^-$ CR	As SR but with $m_T^H < 60$ GeV 30 GeV $< m_{\ell\ell} < 80$ GeV
	SR	$m_T^H > 60$ GeV, $m_T(\ell 2, p_T^{\text{miss}}) > 30$ GeV $p_{T2} \leq 20$ GeV At least 2 jets with $p_T > 30$ GeV No b-tagged jet with $p_T > 20$ GeV
2-jet ggH tagged	$m_{jj} < 65$ GeV or 105 GeV $< m_{jj} < 120$ GeV	
	Top CR	As SR, no m_T^H requirement, $m_{\ell\ell} > 50$ GeV At least 1 of the leading jets b-tagged
	$\tau^+ \tau^-$ CR	As SR but with $m_T^H < 60$ GeV 30 GeV $< m_{\ell\ell} < 80$ GeV