Category	Subcategory	Requirements
Preselection	_	$m_{\ell\ell} > 12$ GeV, $p_{T1} > 25$ (20) GeV for e ( $\mu$ ), $p_{T2} > 13$ (10) GeV for e ( $\mu$ ), track $p_T^{miss} > 20$ GeV, $p_T^{\ell\ell} > 30$ GeV no additional leptons with $p_T > 10$ GeV two electrons or two muons with opposite charges
0-jet ggH-tagged	$e^+e^- p_{T2} < 20 \text{GeV}$ $\mu^+\mu^- p_{T2} < 20 \text{GeV}$	DYMVA $> 0.991$ , $m_{\ell\ell} < 55\mathrm{GeV}$ , $m_\mathrm{T} > 50\mathrm{GeV}$ , $p_\mathrm{T2} < 20\mathrm{GeV}$ , $\Delta\phi_{\ell\ell} < 1.7$ no jets with $p_\mathrm{T} > 30\mathrm{GeV}$ no b-tagged jets with $p_\mathrm{T} > 20\mathrm{GeV}$
	$e^+e^- p_{T2} > 20 \text{GeV}$ $\mu^+\mu^- p_{T2} > 20 \text{GeV}$	$\begin{split} \mathrm{DYMVA} &> 0.991, m_{\ell\ell} < 55\mathrm{GeV}, m_\mathrm{T} > 50\mathrm{GeV}, \\ 20\mathrm{GeV} &< p_\mathrm{T2} < 50\mathrm{GeV}, \Delta\phi_{\ell\ell} < 1.7 \\ \mathrm{no\ jets\ with\ } p_\mathrm{T} > 30\mathrm{GeV} \\ \mathrm{no\ b-tagged\ jets\ with\ } p_\mathrm{T} > 20\mathrm{GeV} \end{split}$
1-jet ggH-tagged	$\begin{array}{c} \mathrm{e^{+}e^{-}} \\ \mu^{+}\mu^{-} \end{array}$	DYMVA $> 0.95$ , $m_{\ell\ell} < 57\mathrm{GeV}$ , $50 < m_\mathrm{T} < 155\mathrm{GeV}$ , $p_\mathrm{T1} < 50\mathrm{GeV}$ , $\Delta\phi_{\ell\ell} < 1.75$ exactly one jet with $p_\mathrm{T} > 30\mathrm{GeV}$ no b-tagged jets with $p_\mathrm{T} > 20\mathrm{GeV}$