

Preselection	$n_\ell = 1, p_{\text{T}}(\text{e}) > 30 \text{ GeV}$ (2016), 35 GeV (2017, 2018),	
	$p_{\text{T}}(\mu) > 30 \text{ GeV}, p_{\text{T}}^{\text{miss}} > 30 \text{ GeV}, m_{\text{T}}^{\text{W}} < 185 \text{ GeV},$	
	$p_{\text{T}}(\text{j}_1) > 50 \text{ GeV}, p_{\text{T}}(\text{j}_2) > 30 \text{ GeV}, m_{\text{jj}} > 500 \text{ GeV}, \Delta\eta_{\text{jj}} > 2.5$	
Regions	Variables	Other Requirements
SR	$70 < m_{\text{V}} < 115 \text{ GeV}$	b veto
W+jets CR	$m_{\text{V}} < 70 \text{ GeV}$ or $m_{\text{V}} > 115 \text{ GeV}$	b veto
Top quark CR	$70 < m_{\text{V}} < 115 \text{ GeV}$	b tag