Category	Selection
Global selection	$p_{\rm T1} > 25$ GeV, $p_{\rm T2} > 13^{1}$ GeV,
	$p_{\mathrm{T}}^{\mathrm{miss}} >$ 20 GeV, $p_{\mathrm{T}}^{\ell\ell} >$ 30 GeV, $m_{\ell\ell} >$ 12 GeV
	$e\mu$ pair with opposite charge
Signal region	At least 2 jets with $p_T > 30$ GeV, $ \eta_{j1} , \eta_{j2} < 2.5$
	$\Delta\eta_{jj} < 3.5$, 60 GeV $< m_{ m T}^{ m H} < 125$ GeV, $\Delta R_{\ell\ell} < 2$
	no b-tagged jet with $p_T > 20$ GeV, 65 GeV $< m_{jj} < 105$ GeV
Top control region	As SR, no $m_{\rm T}^{\rm H}$ requirement, $m_{\ell\ell} > 50~{ m GeV}$
	at least 1 b-tagged jet with $p_T > 30 \text{ GeV}$
$ au^+ au^-$ CR	As signal region but with $m_{\rm T}^{\rm H} < 60~{ m GeV}$
	$30~{ m GeV} < m_{\ell\ell} < 80~{ m GeV}$