

Control region	Category	n_{object} reqs.	Mass reqs. (GeV)	p_{T} reqs. (GeV)
$\mu + \text{jets}$	$t\bar{t}H$ VH	$n_{\mu} = 1$	$50 < m_{\text{T}}^{\mu} < 110$	$p_{\text{T},1}^{\mu} > 20$
$e + \text{jets}$	$t\bar{t}H$ VH	$n_e = 1$	$50 < m_{\text{T}}^e < 110$	$p_{\text{T},1}^e > 40$
$\mu\mu + \text{jets}$	$t\bar{t}H$ VH	$n_{\mu} = 2$	$75 < m_{\mu\mu} < 105$ $60 < m_{\mu\mu} < 120$	$p_{\text{T},1}^{\mu} > 20, p_{\text{T},2}^{\mu} > 10$
$ee + \text{jets}$	$t\bar{t}H$ VH	$n_e = 2$	$75 < m_{ee} < 105$ $60 < m_{ee} < 120$	$p_{\text{T},1}^e > 40, p_{\text{T},2}^e > 10$
$\gamma + \text{jets}$	VH	$n_{\gamma} = 1$	—	$p_{\text{T}}^{\gamma} > 230$