

HLT trigger path	VBF requirements ( $p_{\text{T}}^{j1}, p_{\text{T}}^{j2}, m_{\text{jj}}, \Delta\eta_{\text{jj}}$ )	Requirements on additional objects	Rate [Hz]
VBF inclusive	(105, 40, 1000, 3.5)	—	800
VBF + 2 central jets	(70, 40, 600, 2.5)	2 central jets, $p_{\text{T}}^j > 60$ GeV	380
VBF + $p_{\text{T}}^{\text{miss}}$	(75, 40, 500, 2.5)	$p_{\text{T}}^{\text{miss}} > 85$ GeV	110
VBF + $\mu$	(90, 40, 600, 2.5)	1 muon, $p_{\text{T}}^{\mu} > 3$ GeV	120
VBF + $\tau_{\text{h}}$	(45, 45, 500, 2.5)	1 isolated $\tau_{\text{h}}$ , $p_{\text{T}}^{\tau} > 45$ GeV	40
VBF + $\gamma$	(45, 45, 500, 2.5)	1 photon, $p_{\text{T}}^{\gamma} > 17$ GeV	100
VBF + e	(45, 45, 500, 2.5)	1 isolated electron, $p_{\text{T}}^{\text{e}} > 17$ GeV	2