

L1 trigger seed	VBF requirements ($p_{\text{T}}^{j1}, p_{\text{T}}^{j2}, m_{\text{jj}}$)	Requirements on additional objects	Rate [kHz]
VBF inclusive	(90, 30, 800)	—	5.0
VBF + 2 central jets	(60, 30, 500)	2 central jets, $p_{\text{T}}^j > 50 \text{ GeV}$	3.0
VBF + $p_{\text{T}}^{\text{miss}}$	(65, 30, 500)	$p_{\text{T}}^{\text{miss}} > 65 \text{ GeV}$	2.9
VBF + μ	(90, 30, 500)	1 muon, $p_{\text{T}}^{\mu} > 3 \text{ GeV}$	2.3
VBF + τ_{h}	(35, 35, 450)	1 isolated τ_{h} , $p_{\text{T}}^{\tau} > 35 \text{ GeV}$	3.1
VBF + e/ γ	(40, 40, 450)	1 isolated e/ γ object, $E_{\text{e}/\gamma} > 15 \text{ GeV}$	1.0