

	Set A	Set B
Trigger	Dedicated VBF qqH \rightarrow qqbb	General-purpose VBF trigger
jets p_T	$p_T^{1,2,3,4} > 80, 70, 50, 40$ GeV	$p_T^{1,2,3,4} > 30$ GeV
jets $ \eta $	< 4.5	< 4.5
b tag	At least 2 CSVL jets	At least 1 CSVL and 1 CSVL jets
$\Delta\phi_{bb}$	< 2.0 radians	< 2.0 radians
VBF topology	$m_{qq} > 250$ GeV	$m_{qq}, m_{jj}^{\text{trig}} > 700$ GeV
Veto	$ \Delta\eta_{qq} > 2.5$ None	$ \Delta\eta_{qq} , \Delta\eta_{jj}^{\text{trig}} > 3.5$ Events that belong to set A