

Event category	BDT score boundaries	Targeted process
2016		
TIGHT 1	$0.25 \leq D < 0.50$	VBFB
TIGHT 2	$0.50 \leq D < 0.75$	VBFB
TIGHT 3	$0.75 \leq D$	VBFB
LOOSE G1	$0.50 \leq D_{\text{ggF}} < 0.55$	ggF
LOOSE G2	$0.55 \leq D_{\text{ggF}}$	ggF
LOOSE V1	$D_{\text{ggF}} < 0.50, 0.80 \leq D_{\text{VBF}} < 0.85$	VBFB
LOOSE V2	$D_{\text{ggF}} < 0.50, 0.85 \leq D_{\text{VBF}}$	VBFB
LOOSE Z1	$D_{\text{ggF}} < 0.50, D_{\text{VBF}} < 0.80, 0.60 \leq D_{\text{Z}} < 0.75$	Z + jets
LOOSE Z2	$D_{\text{ggF}} < 0.50, D_{\text{VBF}} < 0.80, 0.75 \leq D_{\text{Z}}$	Z + jets
2018		
TIGHT 1	$0.25 \leq D < 0.50$	VBFB
TIGHT 2	$0.50 \leq D < 0.75$	VBFB
TIGHT 3	$0.75 \leq D$	VBFB
LOOSE G1	$0.55 \leq D_{\text{ggF}} < 0.60$	ggF
LOOSE G2	$0.60 \leq D_{\text{ggF}}$	ggF
LOOSE V1	$D_{\text{ggF}} < 0.55, 0.50 \leq D_{\text{VBF}} < 0.55$	VBFB
LOOSE V2	$D_{\text{ggF}} < 0.55, 0.55 \leq D_{\text{VBF}}$	VBFB
LOOSE Z1	$D_{\text{ggF}} < 0.55, D_{\text{VBF}} < 0.50, 0.60 \leq D_{\text{Z}} < 0.70$	Z + jets
LOOSE Z2	$D_{\text{ggF}} < 0.55, D_{\text{VBF}} < 0.50, 0.70 \leq D_{\text{Z}}$	Z + jets