Analysis category	BDT discriminant	σ_{eff} (GeV)	S	ggH mode fraction (%)	VBF mode fraction (%)	B	$S/\sqrt{B}$
ggH cat 0	0.89–1.00	1.7	22.4	94.2	5.8	79.1	2.5
ggH cat 1	0.77–0.89	2.1	55.4	96.4	3.6	399.3	2.8
ggH cat 2	0.46–0.77	2.4	60.4	96.0	4.0	1045.9	1.9
ggH cat 3	0.00–0.46	2.5	20.9	94.4	5.6	3755.4	0.3
VBF cat 0	0.94–1.00	1.9	2.2	23.7	76.3	1.1	2.2
VBF cat 1	0.78–0.94	2.2	2.4	42.2	57.8	9.7	0.8
VBF cat 2	0.00–0.78	2.4	2.3	61.8	38.2	161.3	0.2