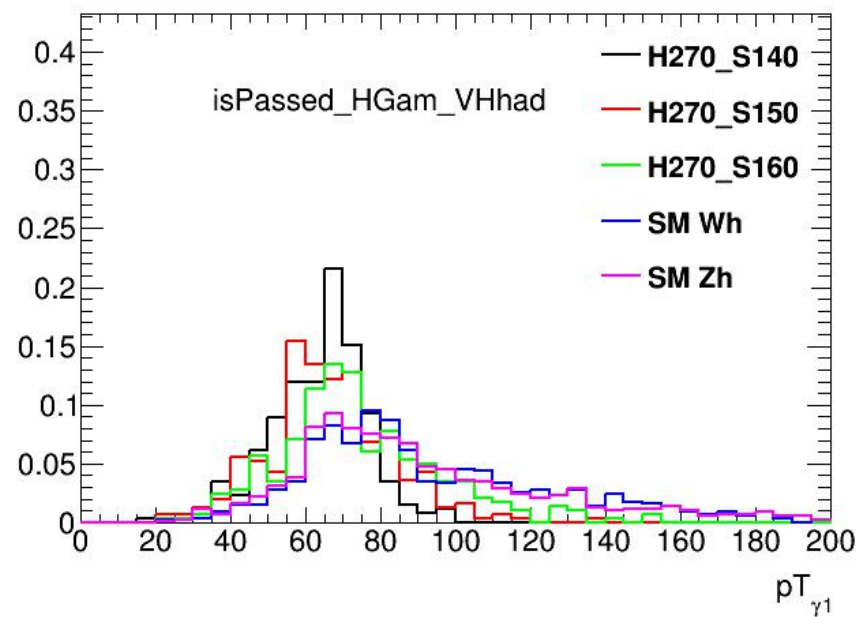
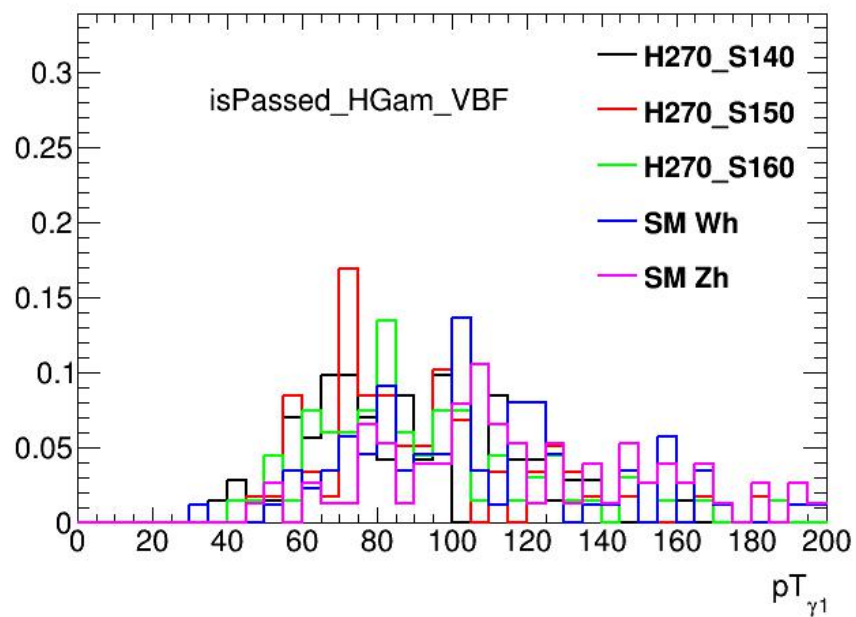
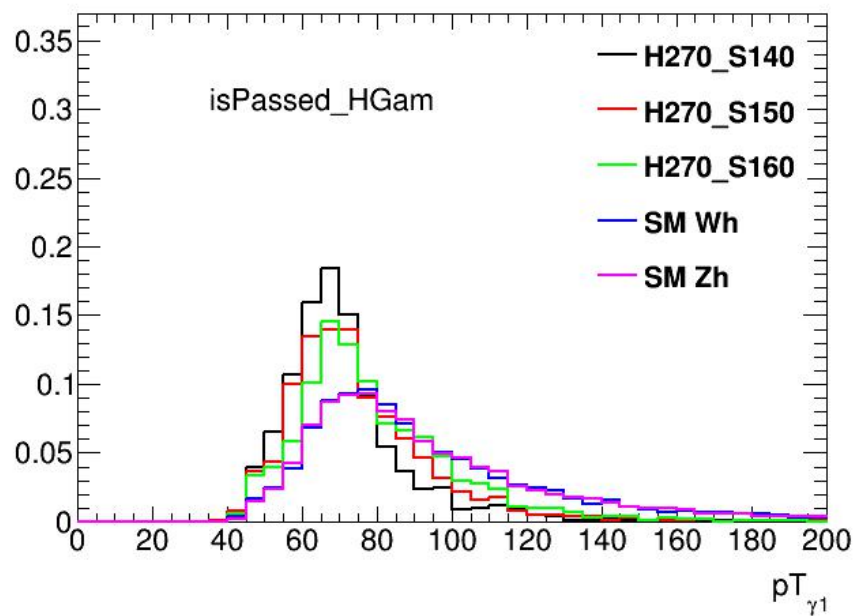


H->Sh, h->yy, S->anything

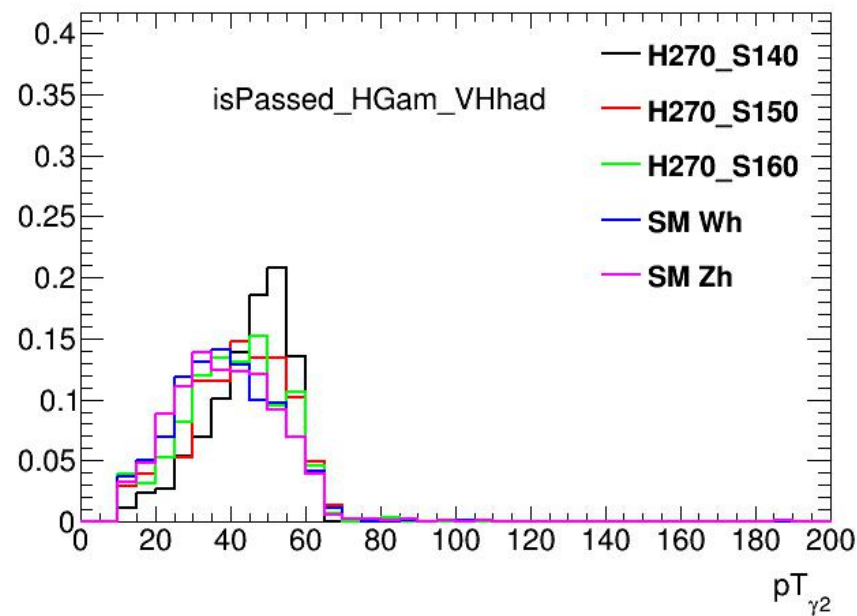
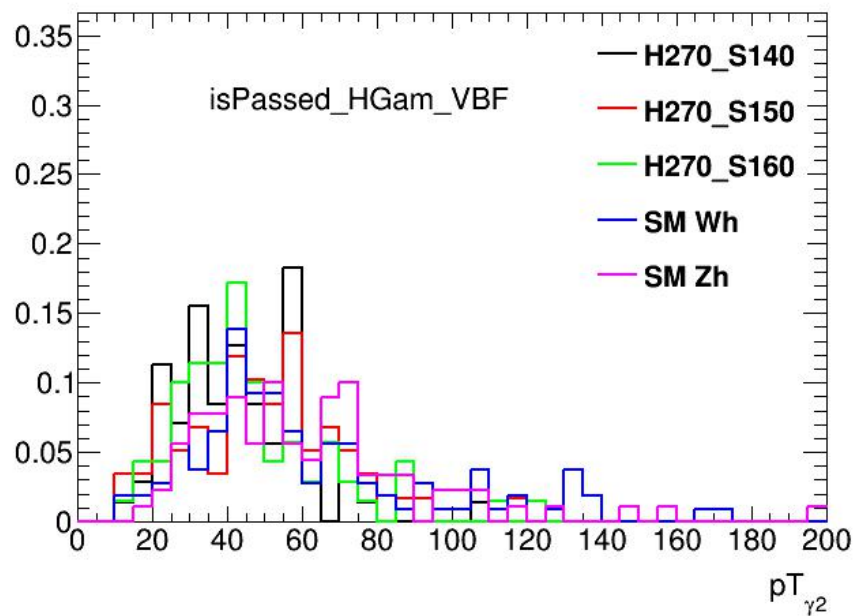
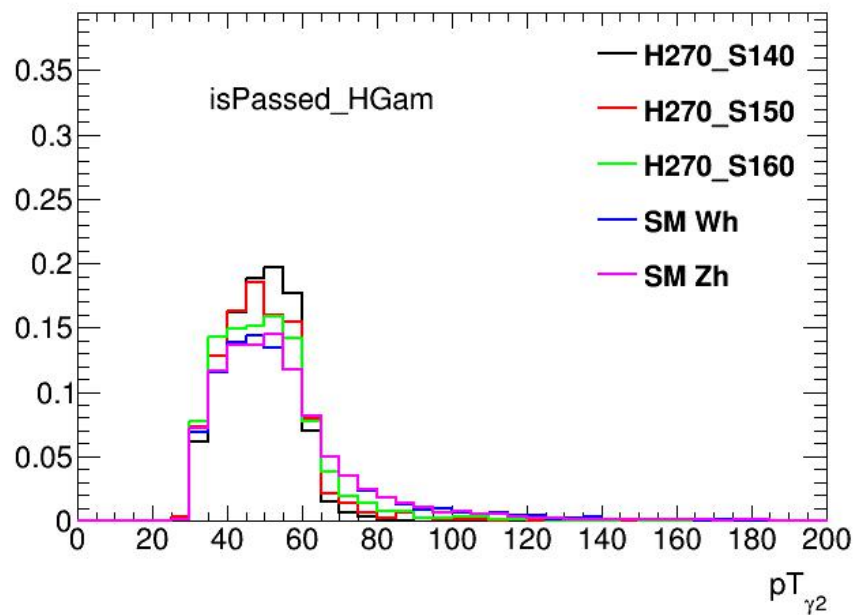
- BSM contamination in VBF and VH
- inclusive cut : $p_{T1}(y2) > 25 \text{ GeV}$, $p_{T1}(y2)/m_{yy} > 0.35(0.25)$
- VH had cut : $N_{\text{jet}} \geq 2$, $60 < m_{jj} < 110$, $\Delta\eta_{yy_{jj}} < 1$, $p_{Tt} < 70$
- VBF cut : $N_{\text{jet}} \geq 2$, $m_{jj} > 400 \text{ GeV}$, $\Delta\eta_{jj} > 2.8$, $\Delta\phi_{yy_{jj}} > 2.8$
- Suppose $\sigma(pp \rightarrow H \rightarrow Sh) = 10 \text{ pb}$, $\text{br}(h \rightarrow yy) = 0.00228$
- Mass grid : H270_S140, H270_S150, H270_S160

cut : isPassed_HGam		cut : isPassed_HGam_VBF		cut : isPassed_HGam_VHhad	
H270_S140:	135.205	H270_S140:	5.90376	H270_S140:	21.5363
H270_S150:	134.872	H270_S150:	4.90594	H270_S150:	25.3612
H270_S160:	142.522	H270_S160:	5.82061	H270_S160:	23.5319
SM WH:	37.9702	SM WH:	0.610508	SM WH:	5.95245
SM ZH:	24.7011	SM ZH:	0.32823	SM ZH:	4.1904

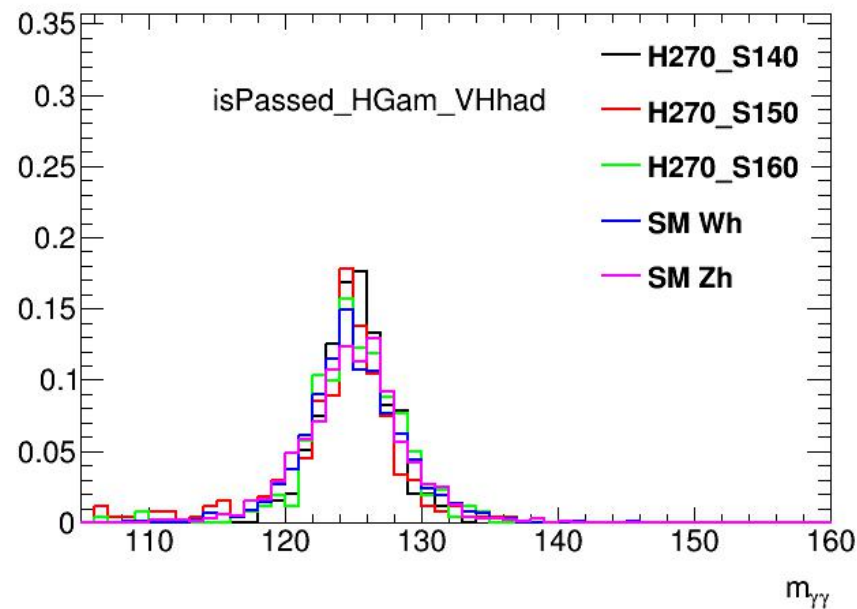
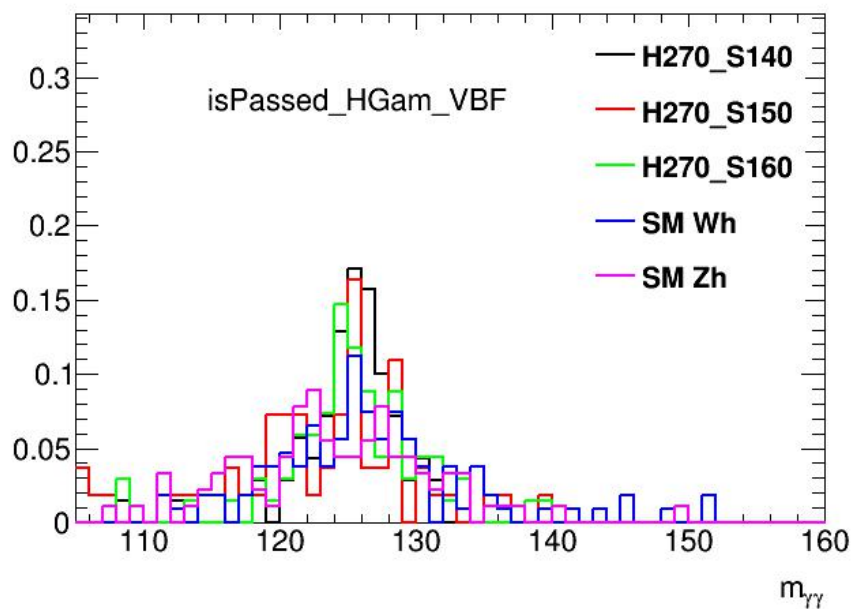
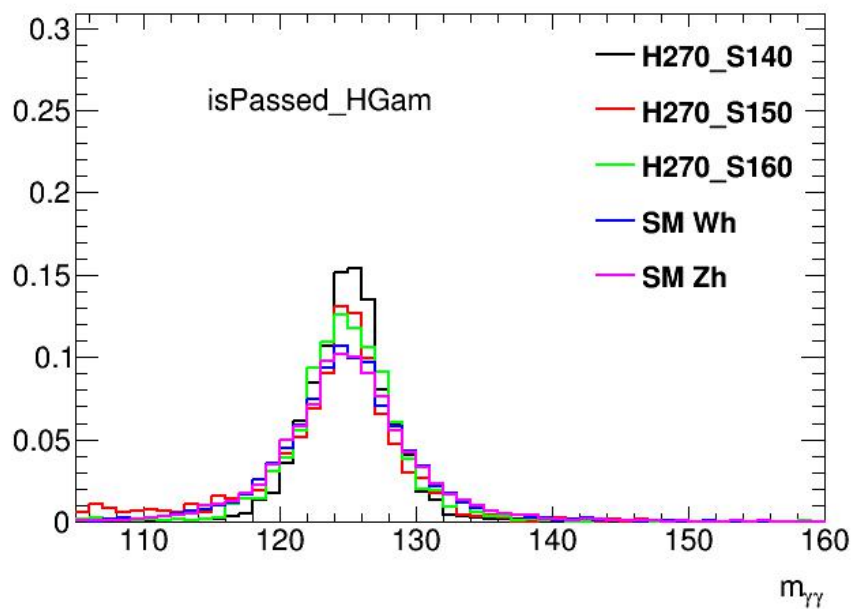
pT_{γ1}



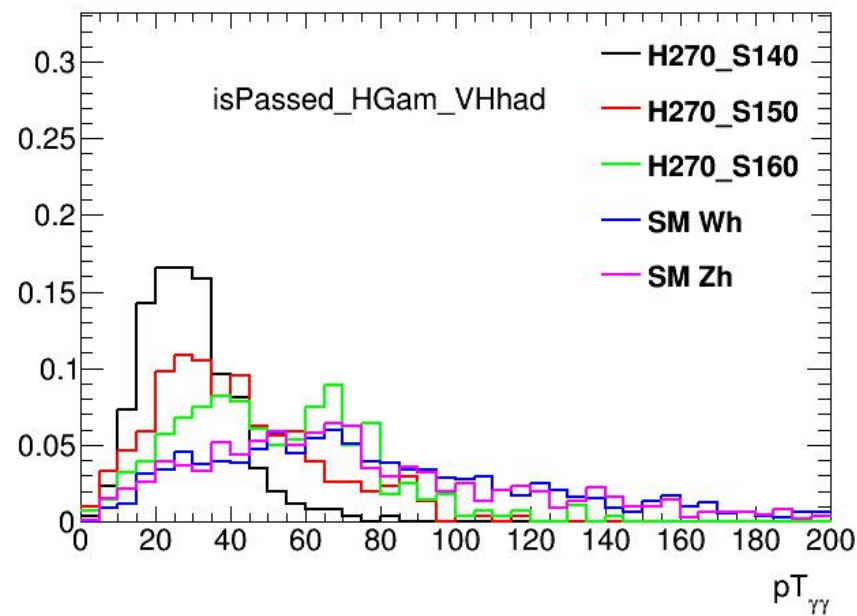
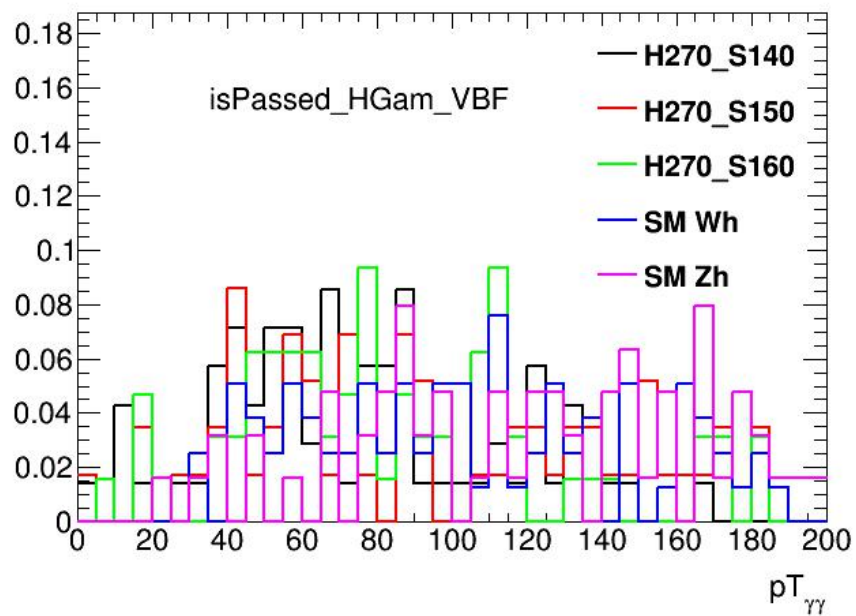
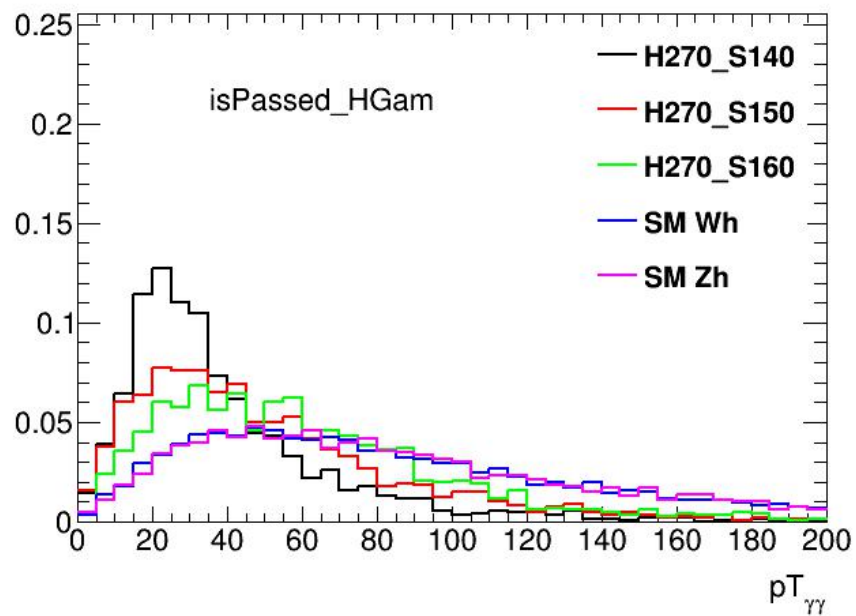
$pT_{\gamma 2}$



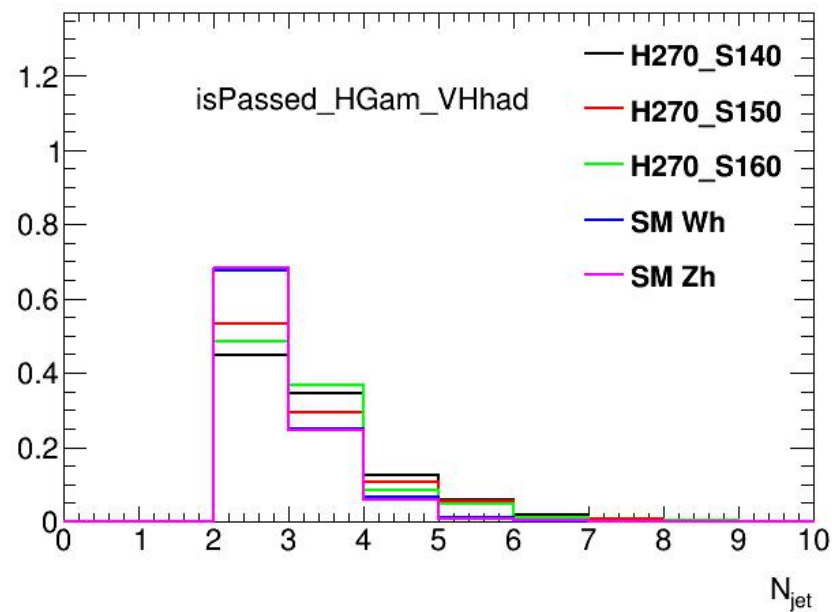
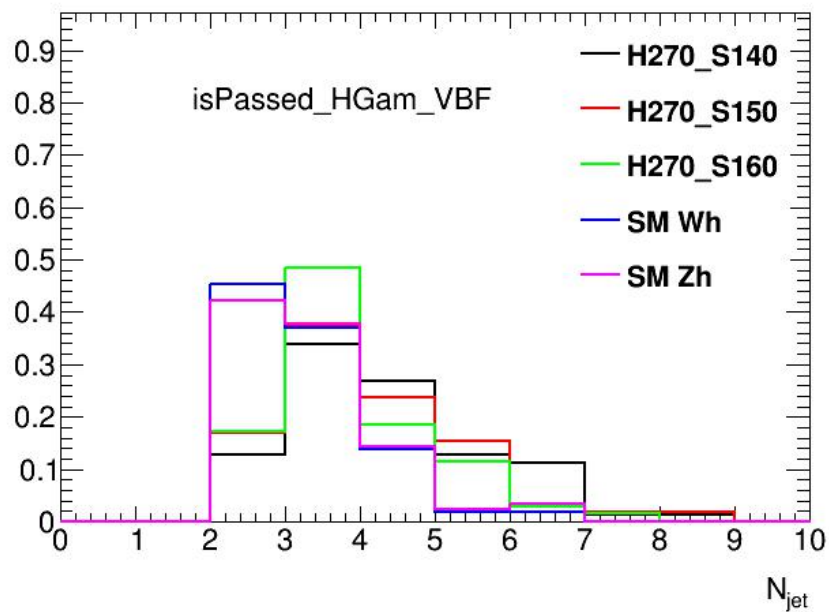
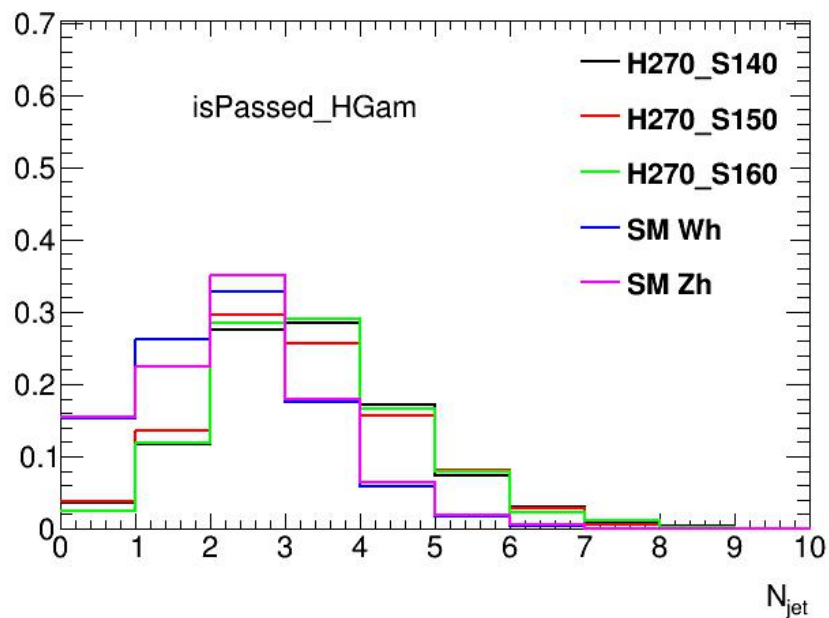
$m_{\gamma\gamma}$



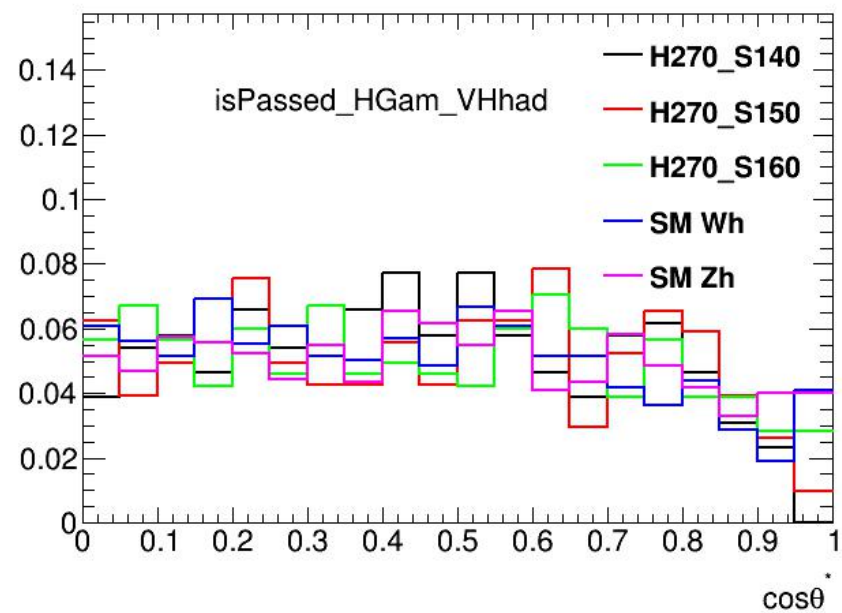
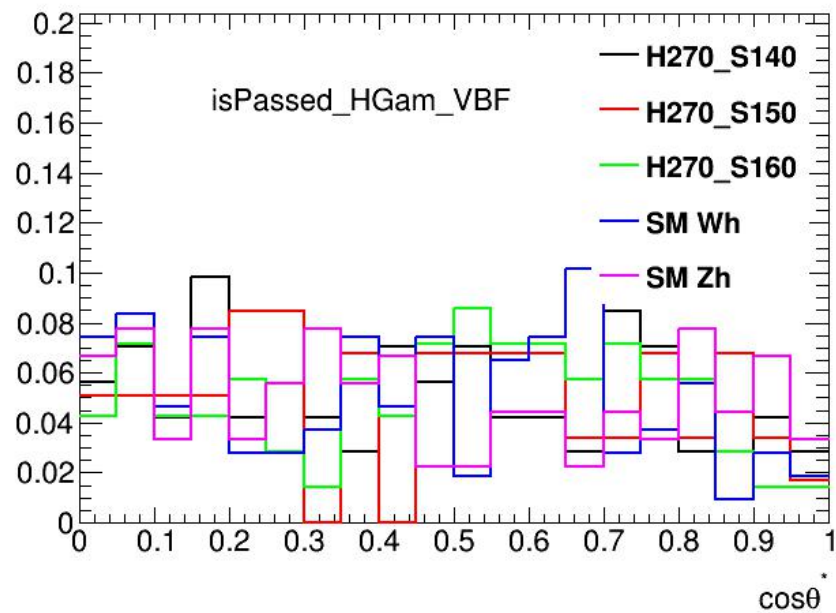
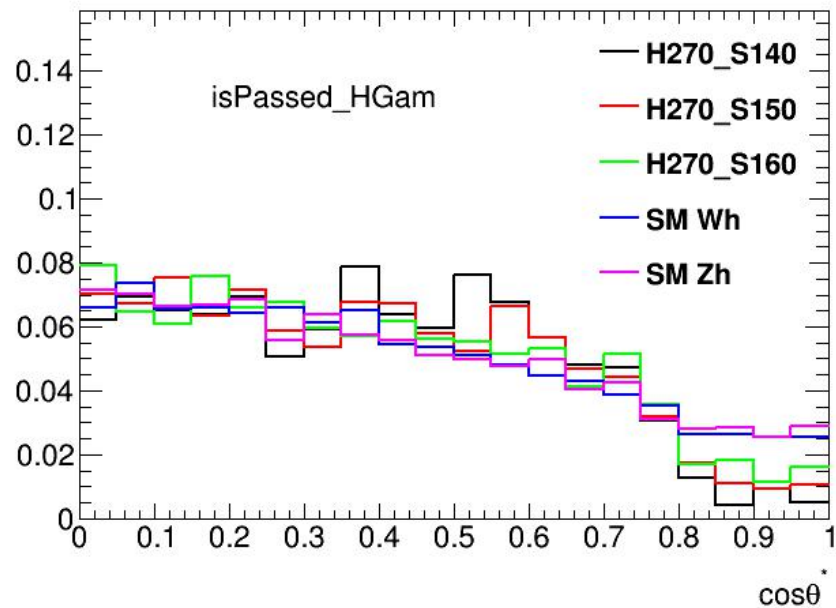
$pT_{\gamma\gamma}$



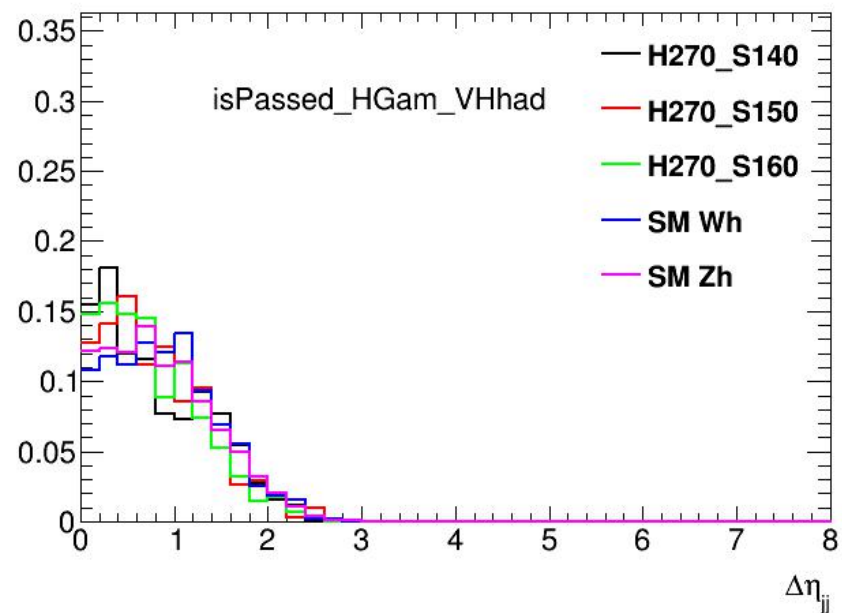
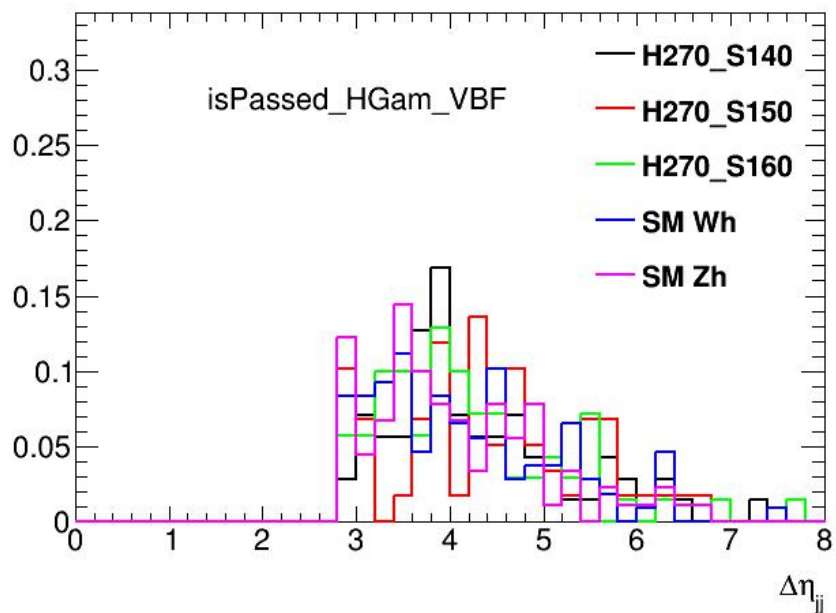
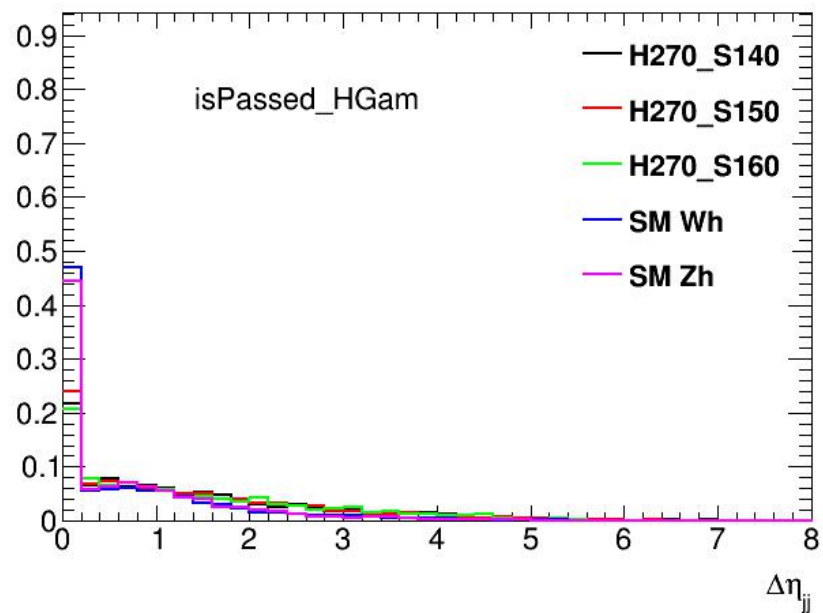
Njet



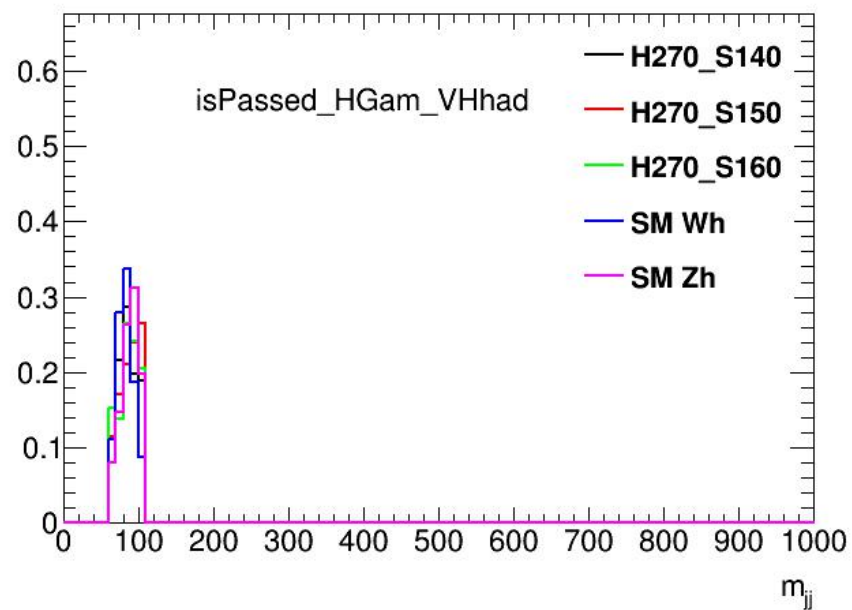
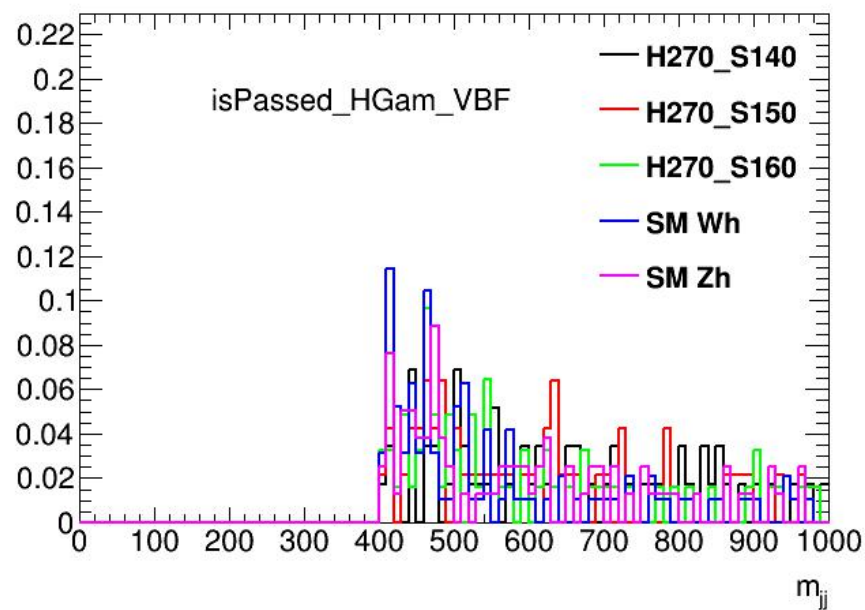
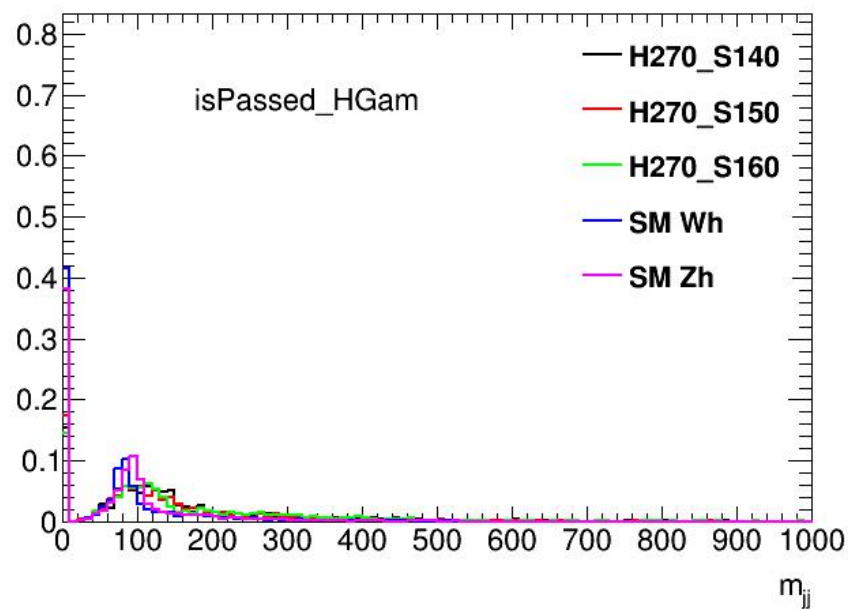
cosTS



DeltaEta_jj



m_{jj}



$pT_{t_{\gamma\gamma}}$

