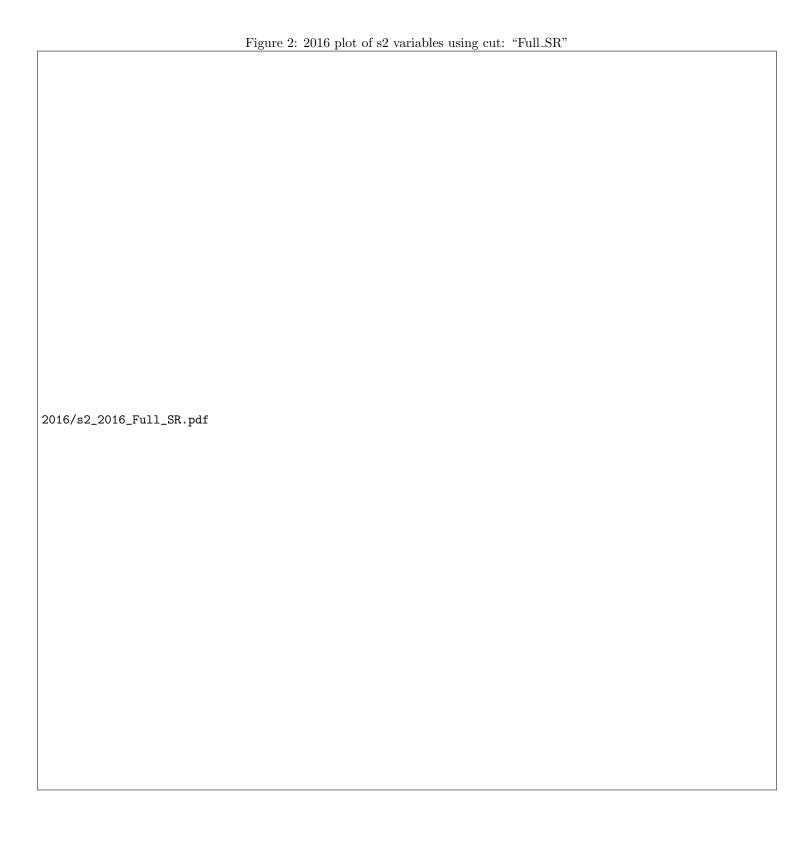
0000	
test	
2016	
$Full_DNNMLPBDT_SR$	
Full_SR	
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2016/s1_2016_Full_SR.pdf	

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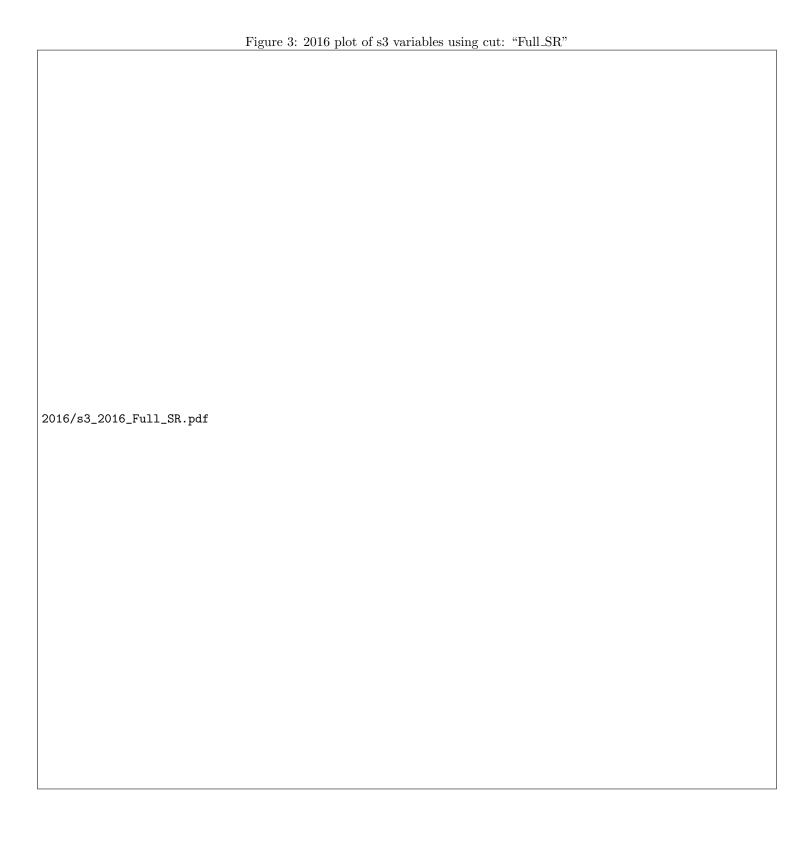
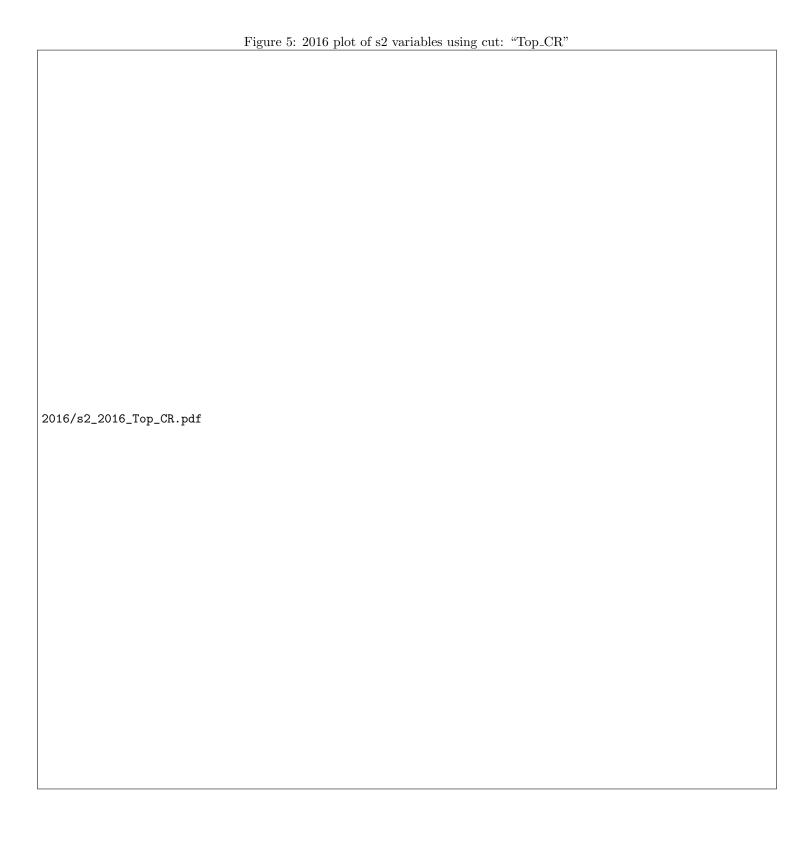
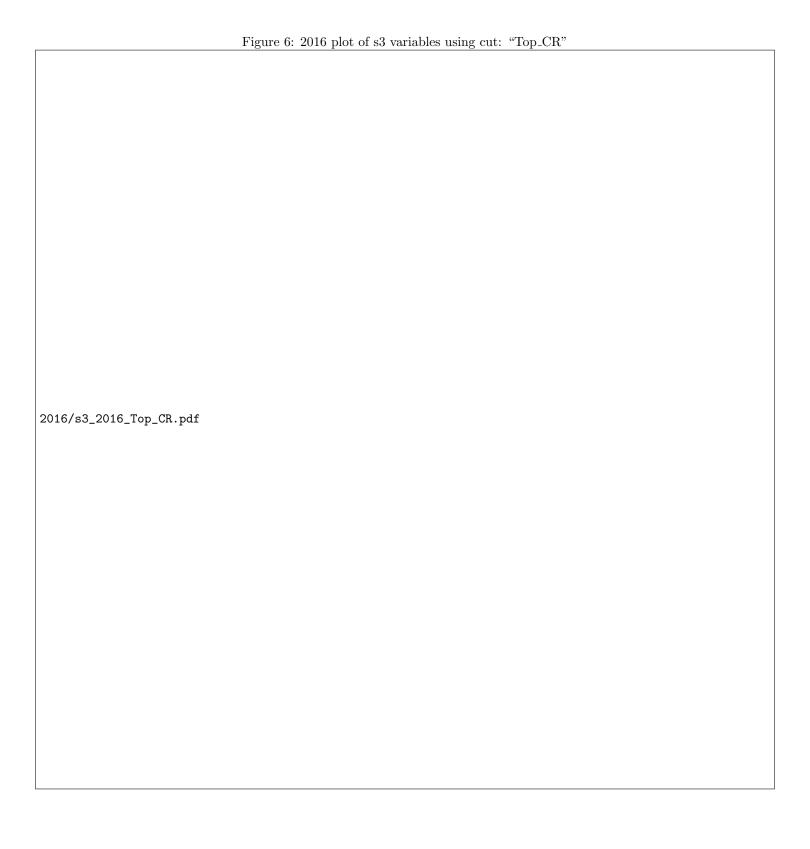


	Figure 4: 2016 plot of s1 variables using cut: "Top_CR"		
2016/s1_2016_Top_CR.pdf			





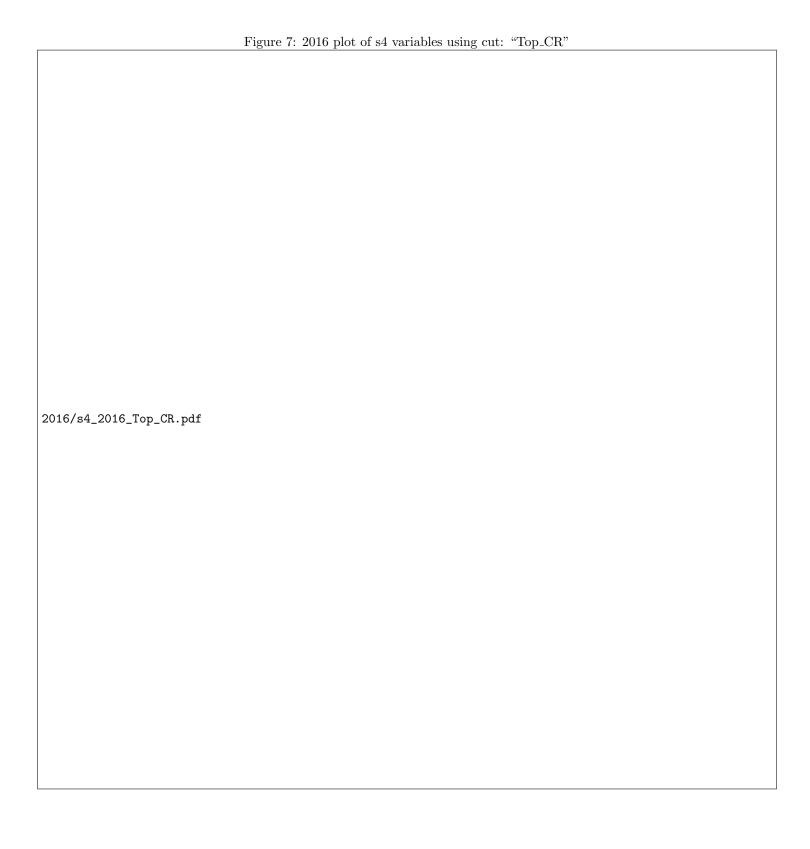
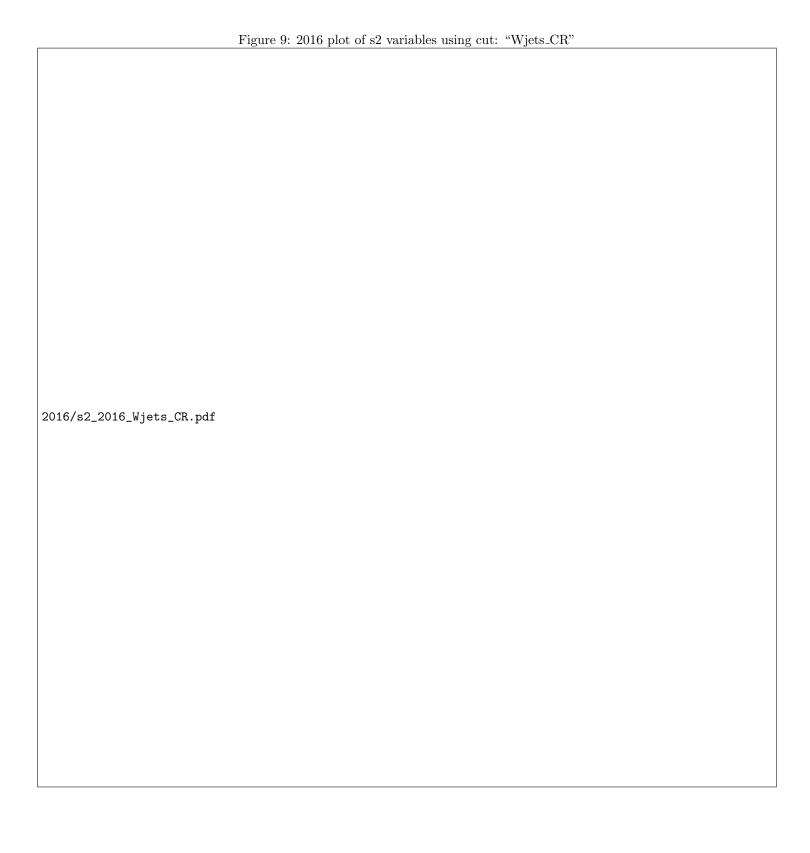


	Figure 8: 2016 plot of s1 variables using cu	ıt: "Wjets_CR"
2016/s1_2016_Wjets_CR.pdf		



$plots/2016/s0_2016$

 $Full_SR$

2017

Full_SR

Figure 10: 2017 plot of s1 variables using cut: "Full_SR"

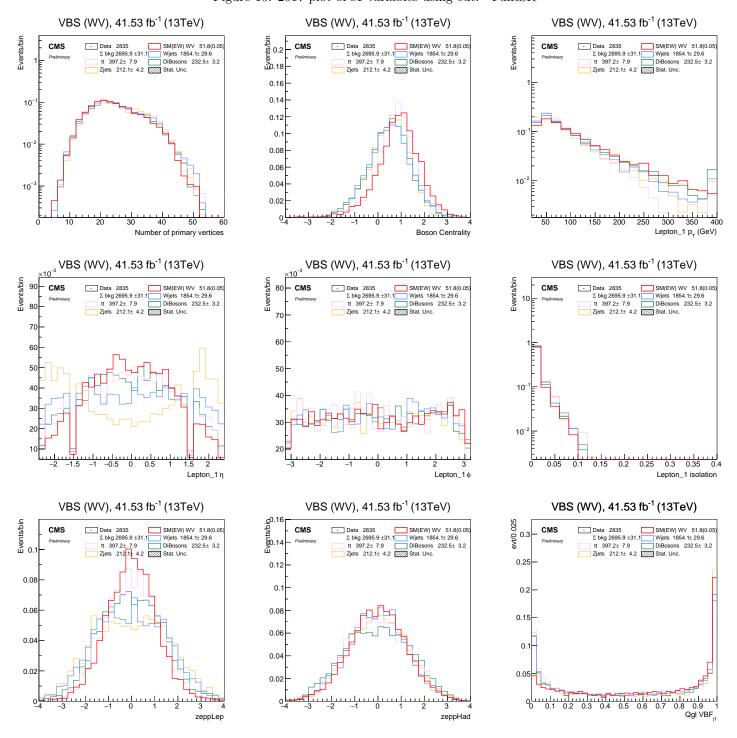


Figure 11: 2017 plot of s2 variables using cut: "Full_SR"

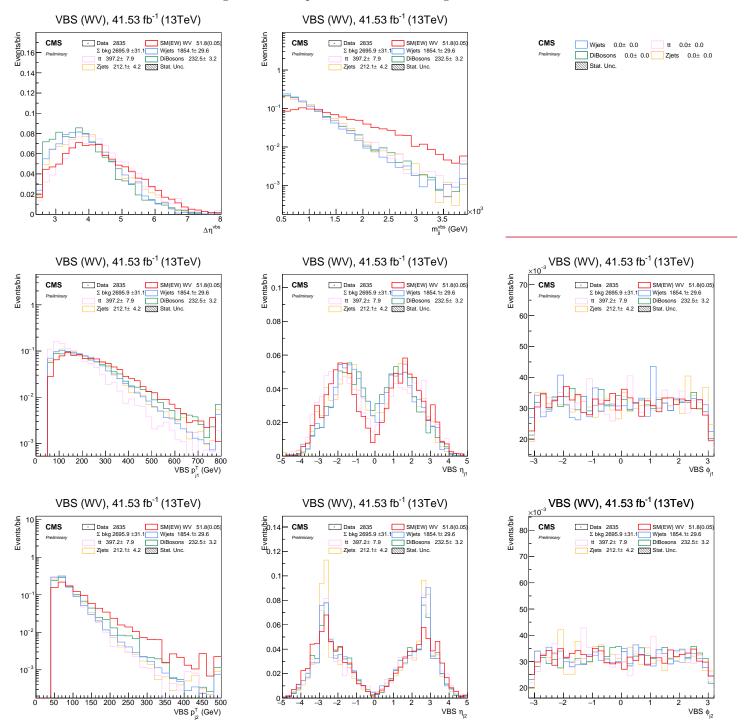
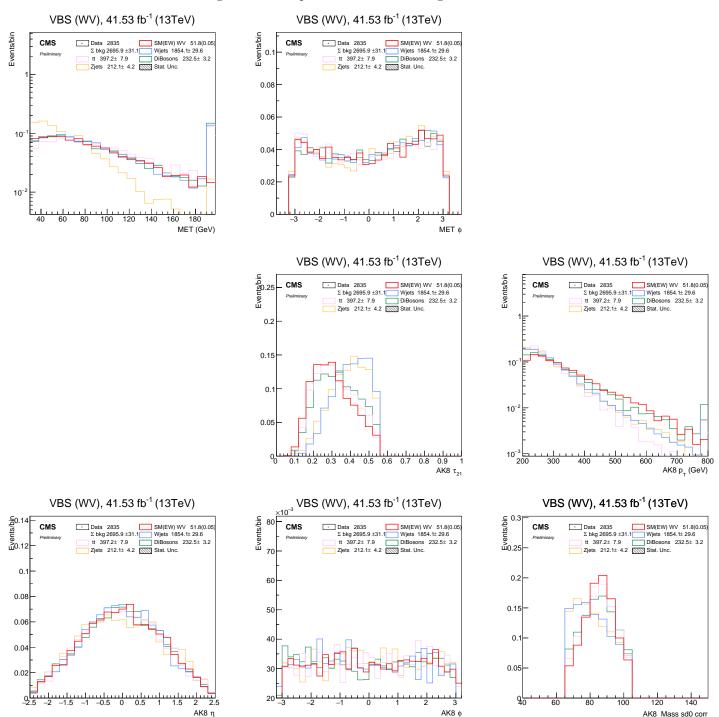
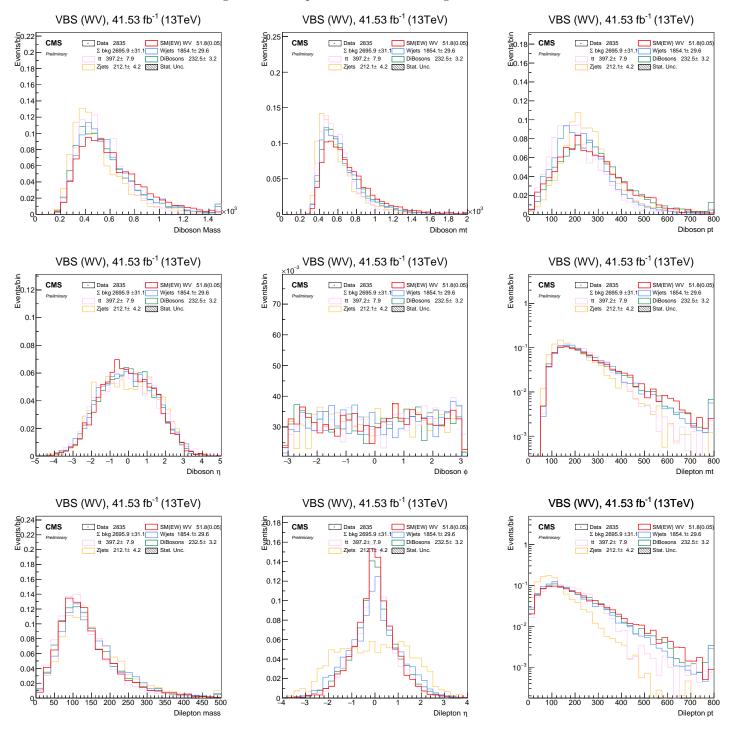


Figure 12: 2017 plot of s3 variables using cut: "Full_SR"



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Figure 13: 2017 plot of s4 variables using cut: "Full_SR"



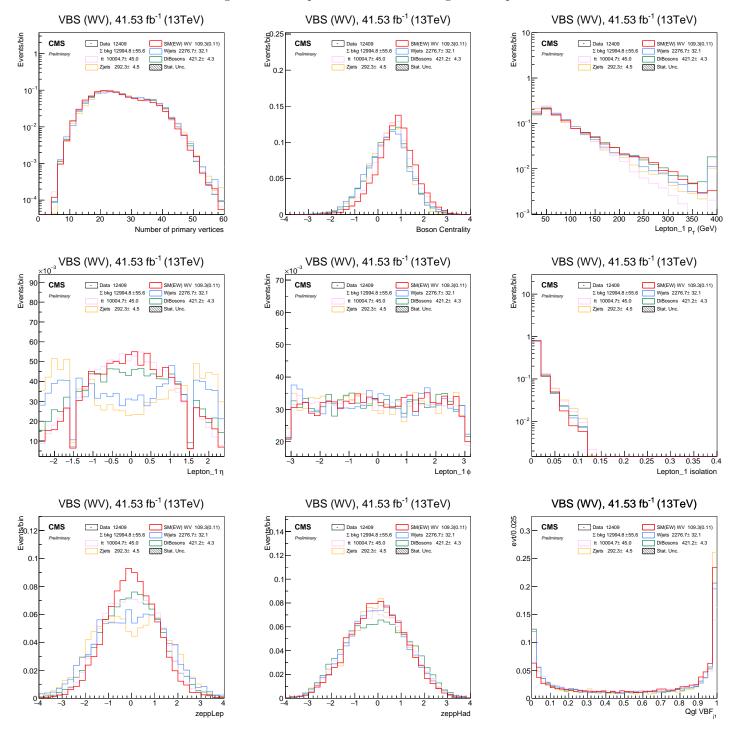


Figure 14: 2017 plot of s1 variables using cut: "Top_CR"

Figure 15: 2017 plot of s2 variables using cut: "Top_CR"

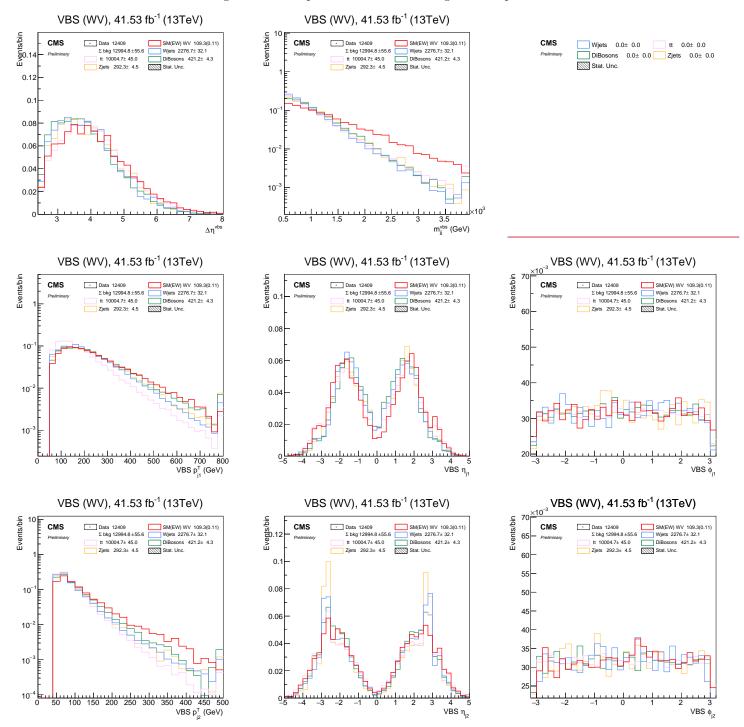


Figure 16: 2017 plot of s3 variables using cut: "Top_CR"

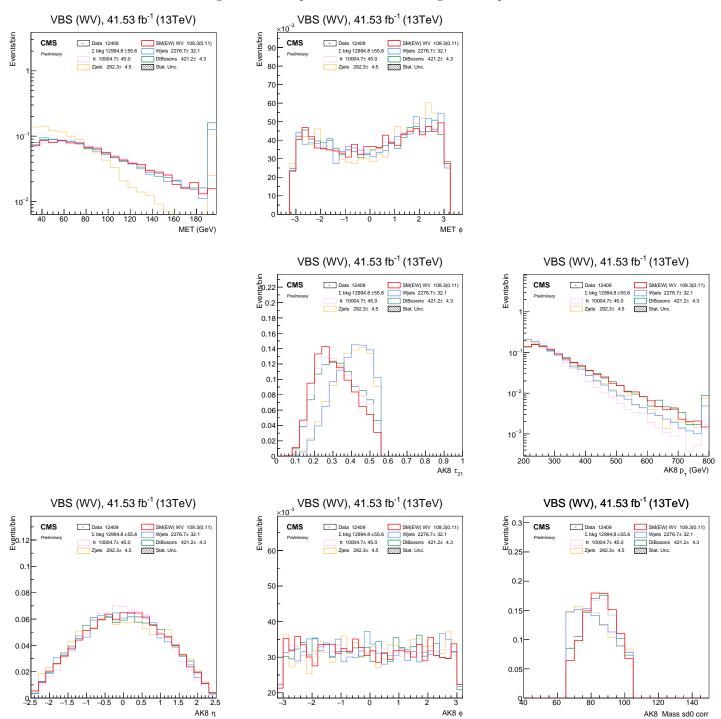
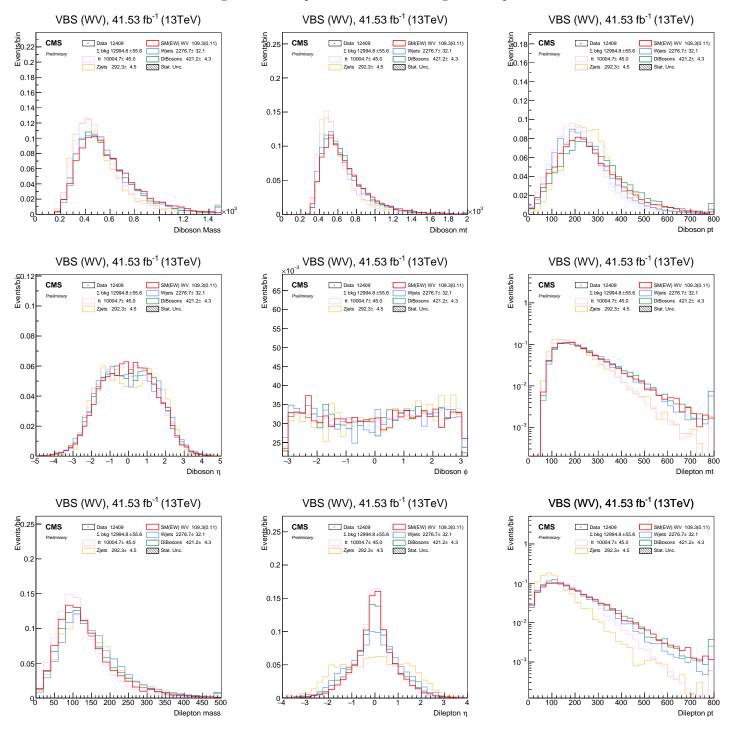


Figure 17: 2017 plot of s4 variables using cut: "Top_CR"



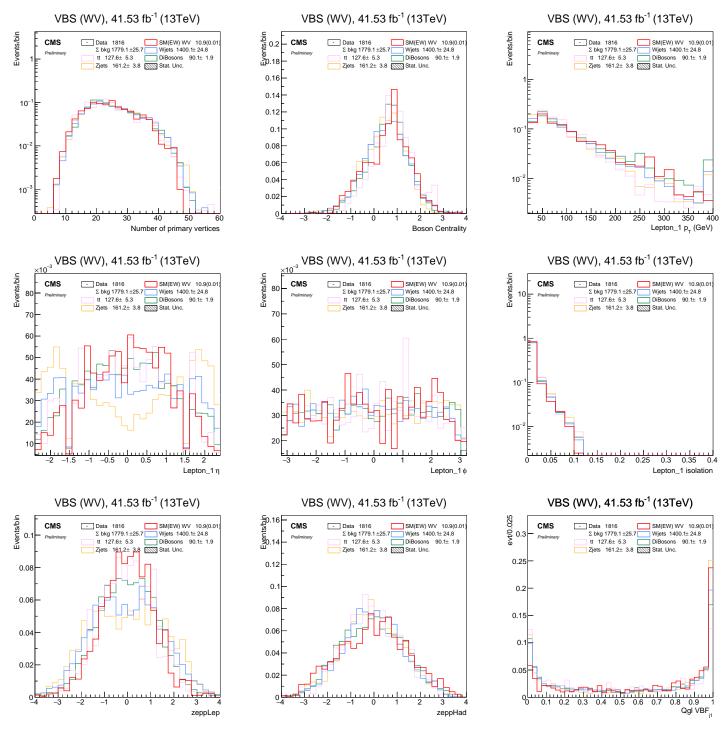


Figure 18: 2017 plot of s1 variables using cut: "Wjets_CR"

Figure 19: 2017 plot of s2 variables using cut: "Wjets_CR"

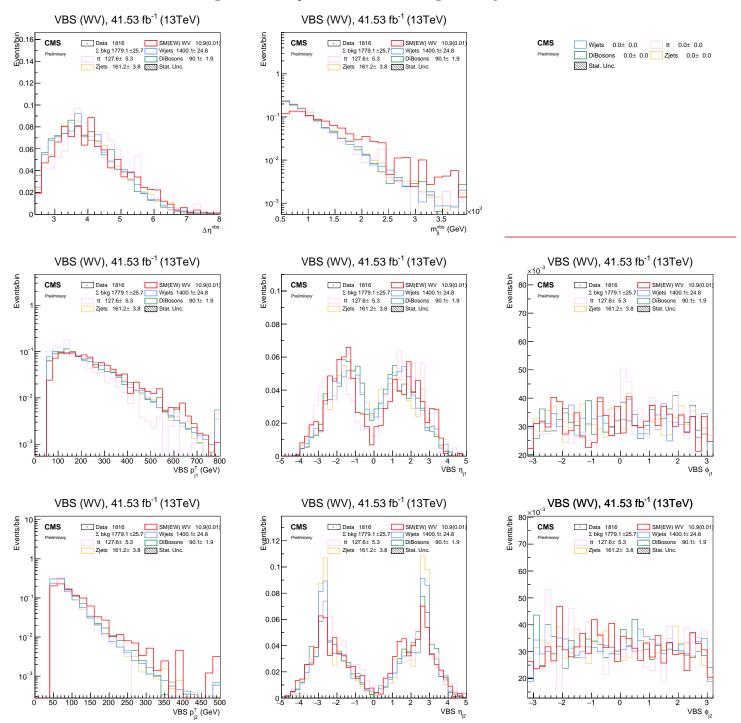
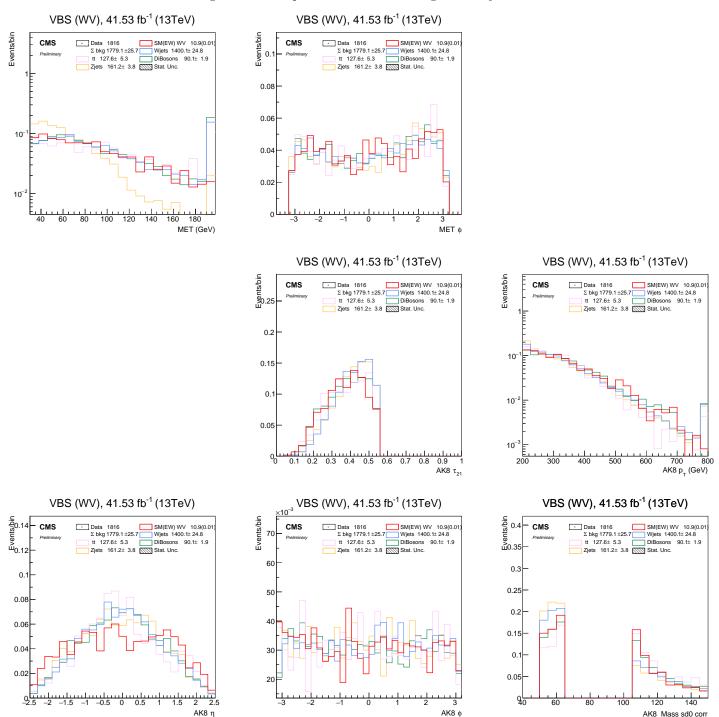
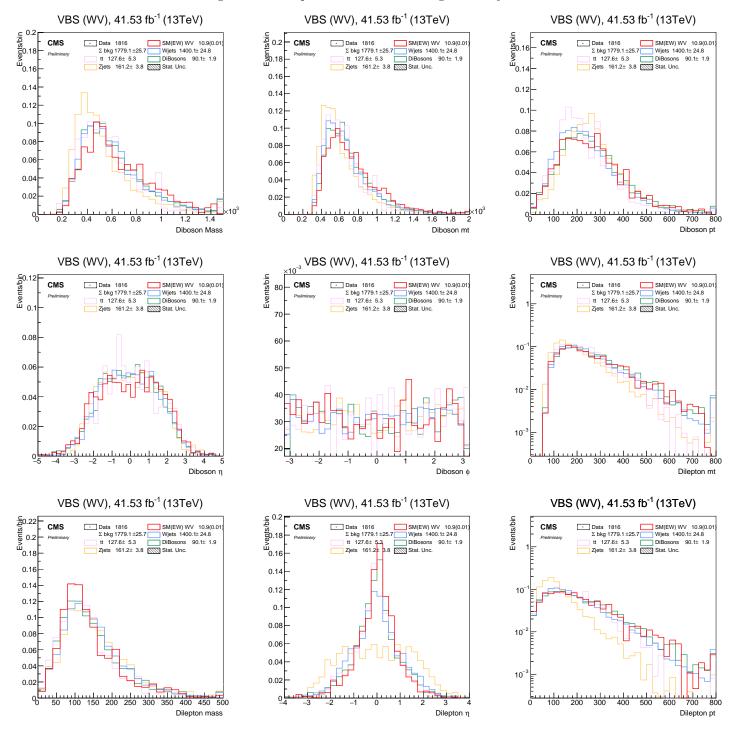


Figure 20: 2017 plot of s3 variables using cut: "Wjets_CR"



AK8 Mass sd0 corr

Figure 21: 2017 plot of s4 variables using cut: "Wjets_CR"



0.

0.08

0.06

0.04

0.02

$Full_SR$

VBS (WV), 59.74 fb⁻¹ (13TeV)

0.22 Events/bi 0.2 0.18 Events/bin Events/bin CMS Wjets 1611.5± 34.1

DiBosons 331.9± 5.0

Stat. Unc. Σ bkg 2687.7±35.9 tt 418.3± 7.8 Zjets 326.0± 6.5 Wjets 1611.5± 34.1

DiBosons 331.9± 5.0

Stat. Unc. Σ bkg 2687.7 ±35.9 tt 418.3± 7.8 Zjets 326.0± 6.5 Wjets 1611.5± 34.1
DiBosons 331.9± 5.0
Stat. Unc. Σ bkg 2687.7 ±35.9 tt 418.3± 7.8 Zjets 326.0± 6.5 0.16 0.14 10 0.12 10 0.1 10-0.08 0.06 10 0.04 10 0.02 150 200 300 350 Lepton_1 p_T (GeV) Number of primary vertices Boson Centrality VBS (WV), 59.74 fb⁻¹ (13TeV) VBS (WV), 59.74 fb⁻¹ (13TeV) VBS (WV), 59.74 fb⁻¹ (13TeV) Events/bin 60.09 ents/bin 0.1 Data 2691 Σ bkg 2687.7 ±35.9 tt 418.3± 7.8 SM(EW) WV 87.3(0.06) Wjets 1611.5± 34.1 DiBosons 331.9± 5.0 Data 2691 Σ bkg 2687.7±35.9 tt 418.3± 7.8 DiBosons 331.9± 5.0 DiBosons 331.9± 5.0 tt 418.3± 7.8 Ã_{0.0}g Ziets 326.0± 6.5 Stat. Unc. Ziets 326.0± 6.5 Stat. Unc. Zjets 326.0± 6.5 Stat. Unc. 0.08 0.08 0.07 0.07 0.06 0.06 0.05 0.05 10 0.04 0.04 0.03 0.03 0.02 10 0.02 0.15 0.2 0.25 0.3 0.35 0.4 0.05 Lepton_1 isolation VBS (WV), 59.74 fb⁻¹ (13TeV) VBS (WV), 59.74 fb⁻¹ (13TeV) VBS (WV), 59.74 fb⁻¹ (13TeV) Events/bin Data 2691 Σ bkg 2687.7 ±35.9 tt 418.3± 7.8 SM(EW) WV 87.3(0.06) Wjets 1611.5± 34.1 DiBosons 331.9± 5.0 Data 2691 SM(EW) W

Σ bkg 2687.7 ±35.9 Wjets 161

tt 418.3± 7.8 DiBosons

Zjets 326.0± 6.5 Stat. Unc. SM(EW) WV 87.3(0.06) Wjets 1611.5± 34.1 DiBosons 331.9± 5.0 Data 2691 SM(EW) V

Σ bkg 2687.7 ±35.9 Wjets 161

tt 418.3± 7.8 DiBosons

Zjets 326.0± 6.5 Stat. Unc. SM(EW) WV 87.3(0.06) Wjets 1611.5± 34.1 DiBosons 331.9± 5.0 Σ bkg 2687.7±35.9 Wjets 16' tt 418.3± 7.8 DiBosons Zjets 326.0± 6.5 Stat. Unc.

0.12

0.

0.08

0.06

0.04

zeppLep

Figure 22: 2018 plot of s1 variables using cut: "Full_SR" VBS (WV), 59.74 fb⁻¹ (13TeV)

VBS (WV), 59.74 fb⁻¹ (13TeV)

0.25

0.2

0.15

0.1

0.05

zeppHad

0.4 0.5

0.2 0.3

0.6 0.7

0.8 Qgl VBF

Figure 23: 2018 plot of s2 variables using cut: "Full_SR"

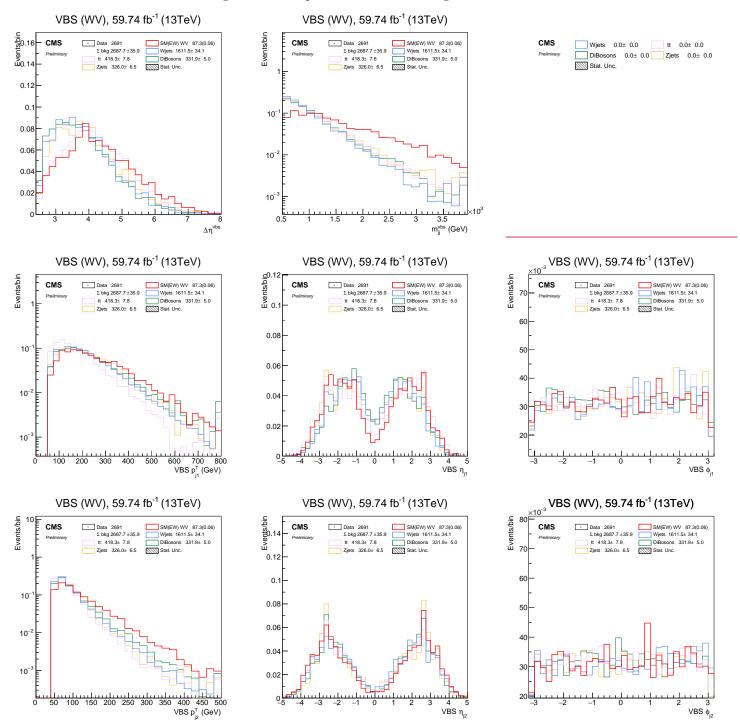


Figure 24: 2018 plot of s3 variables using cut: "Full_SR"

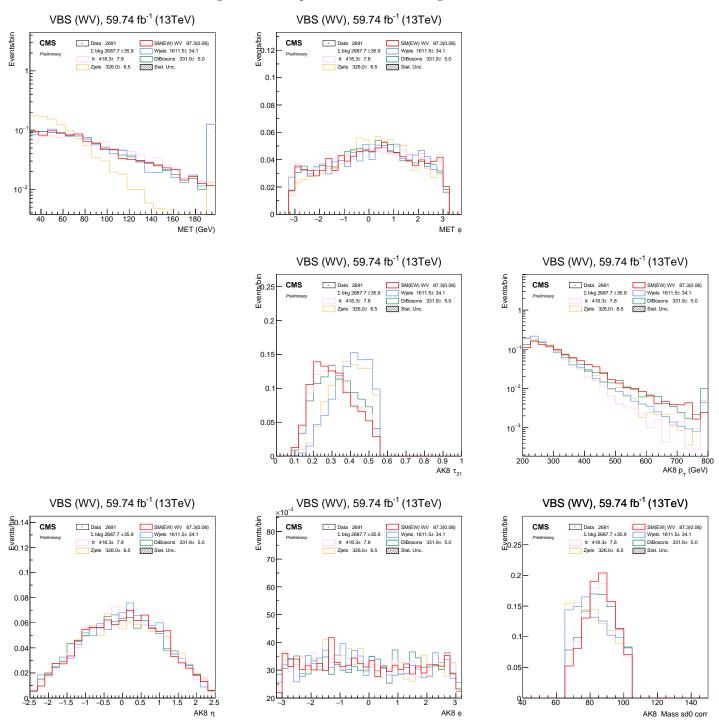
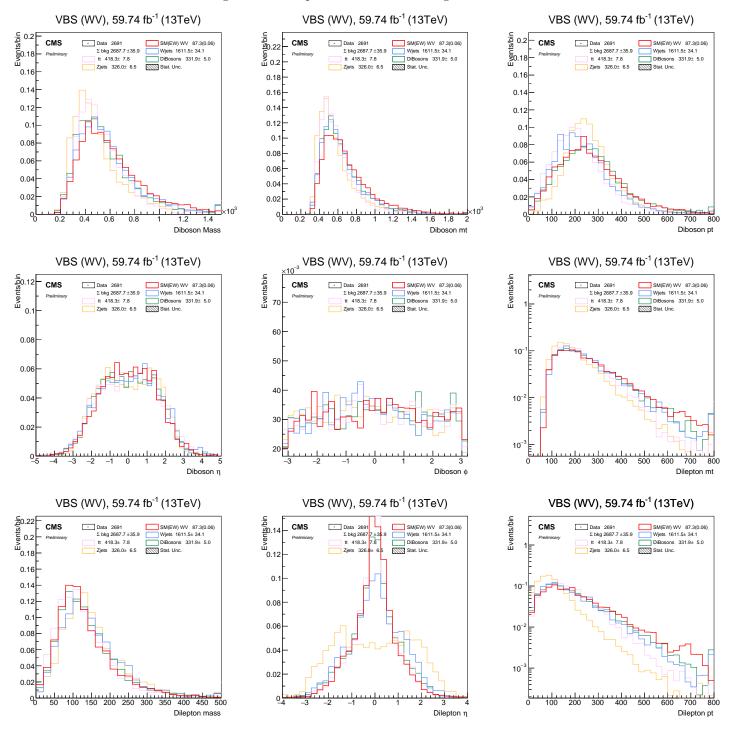


Figure 25: 2018 plot of s4 variables using cut: "Full_SR"



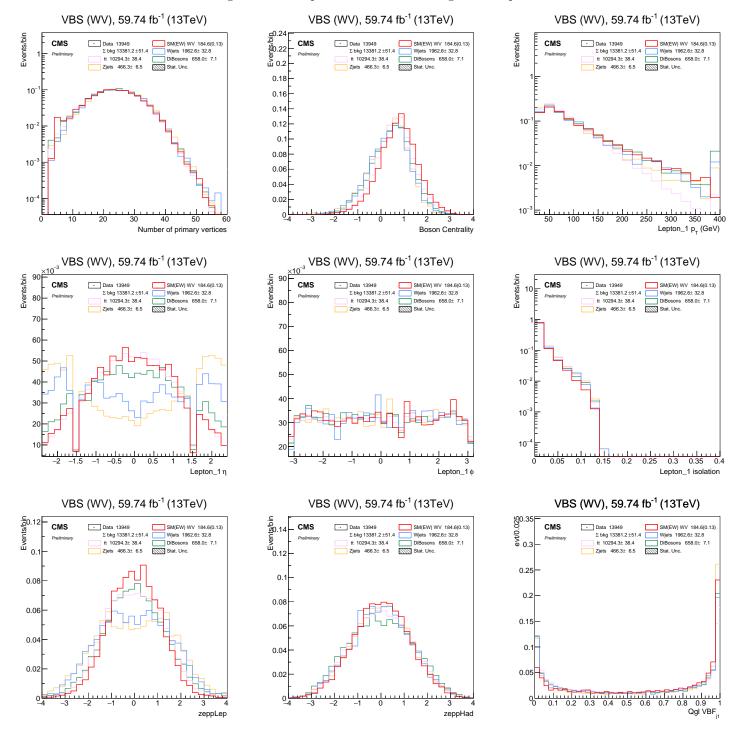


Figure 26: 2018 plot of s1 variables using cut: "Top_CR"

Figure 27: 2018 plot of s2 variables using cut: "Top_CR"

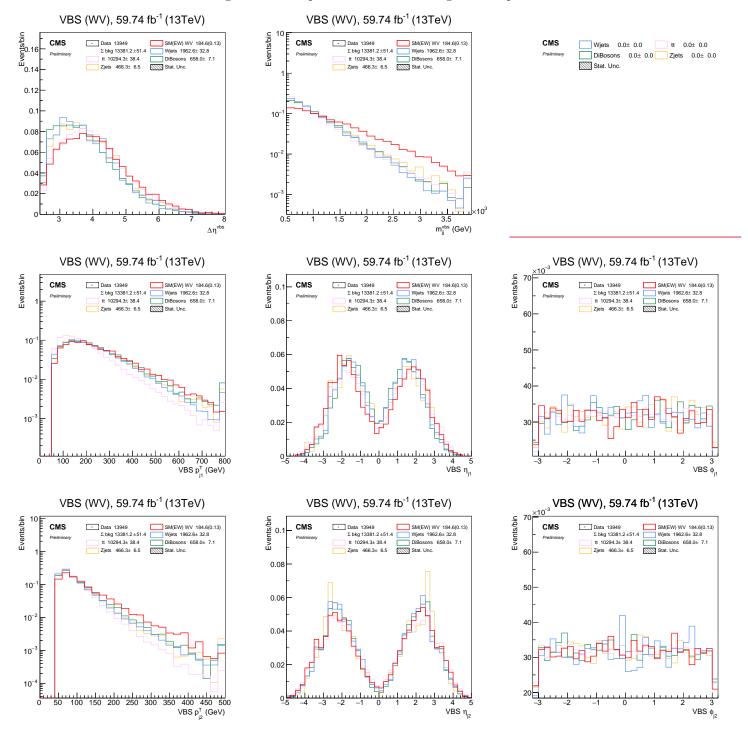


Figure 28: 2018 plot of s3 variables using cut: "Top_CR"

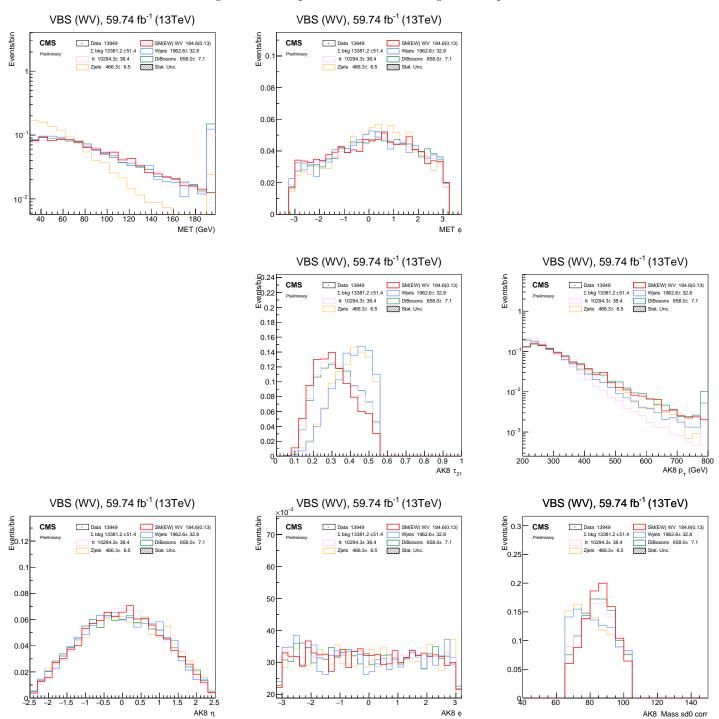
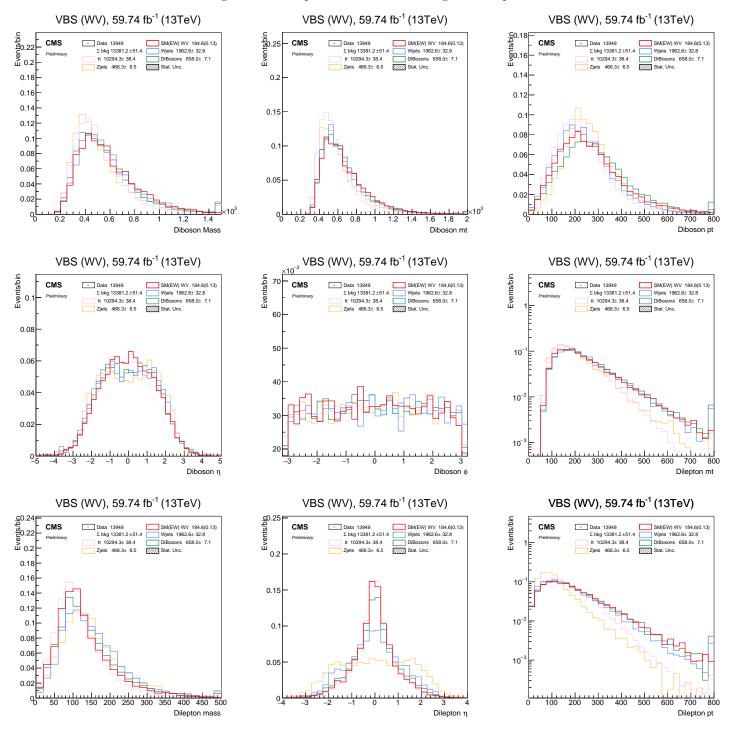


Figure 29: 2018 plot of s4 variables using cut: "Top_CR"



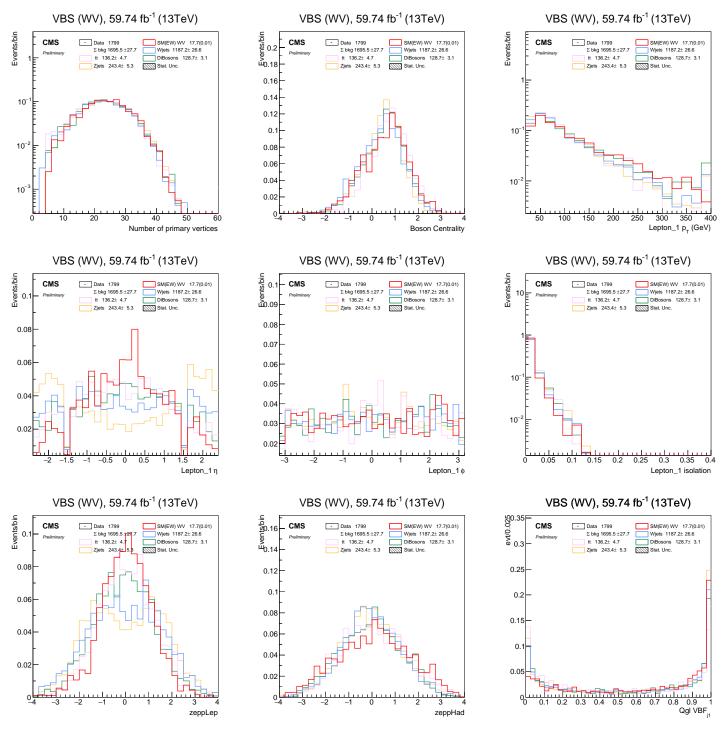


Figure 30: 2018 plot of s1 variables using cut: "Wjets_CR"

Figure 31: 2018 plot of s2 variables using cut: "Wjets_CR"

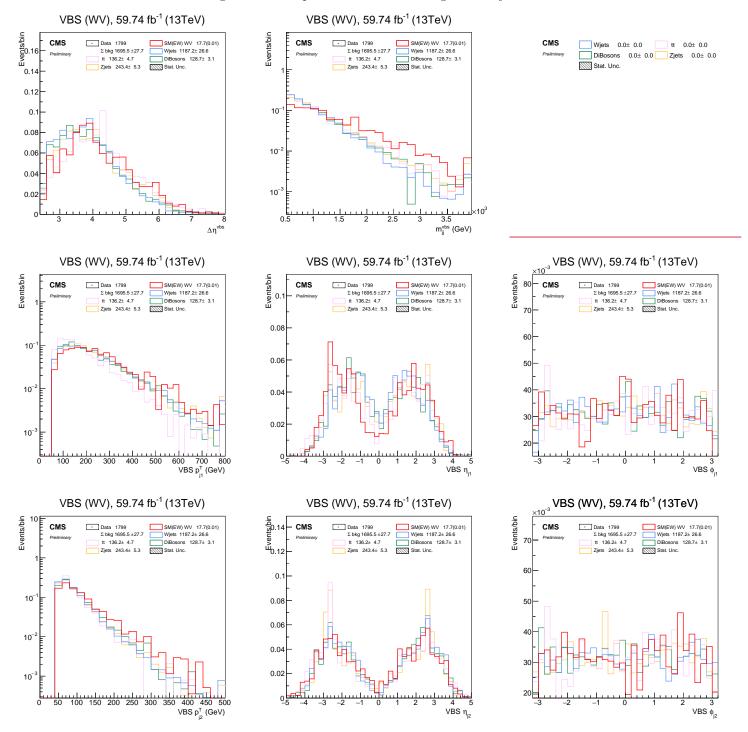
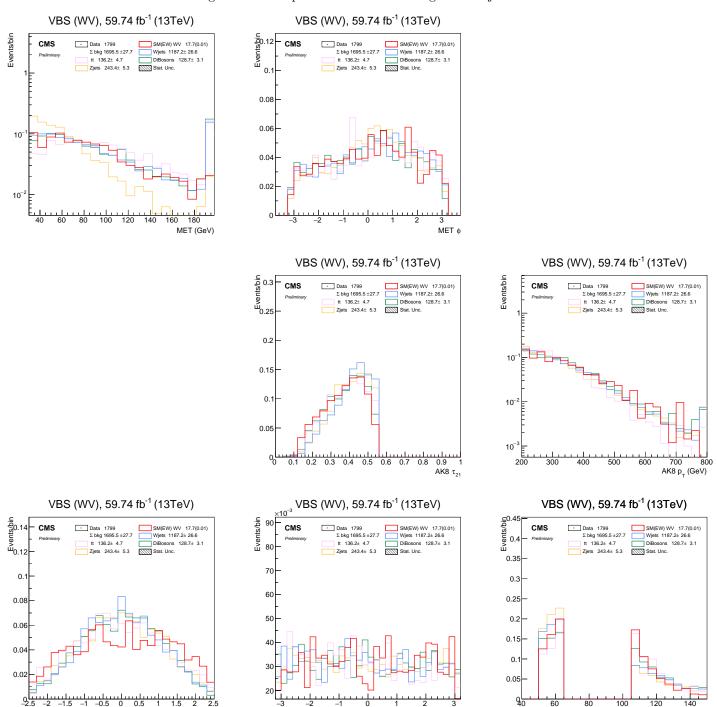


Figure 32: 2018 plot of s3 variables using cut: "Wjets_CR"



ΑΚ8 φ

AK8 Mass sd0 corr

ΑΚ8 η

Figure 33: 2018 plot of s4 variables using cut: "Wjets_CR"

