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0000

test

Figure 1: 0000 plot of c1 variables using cut: "test"

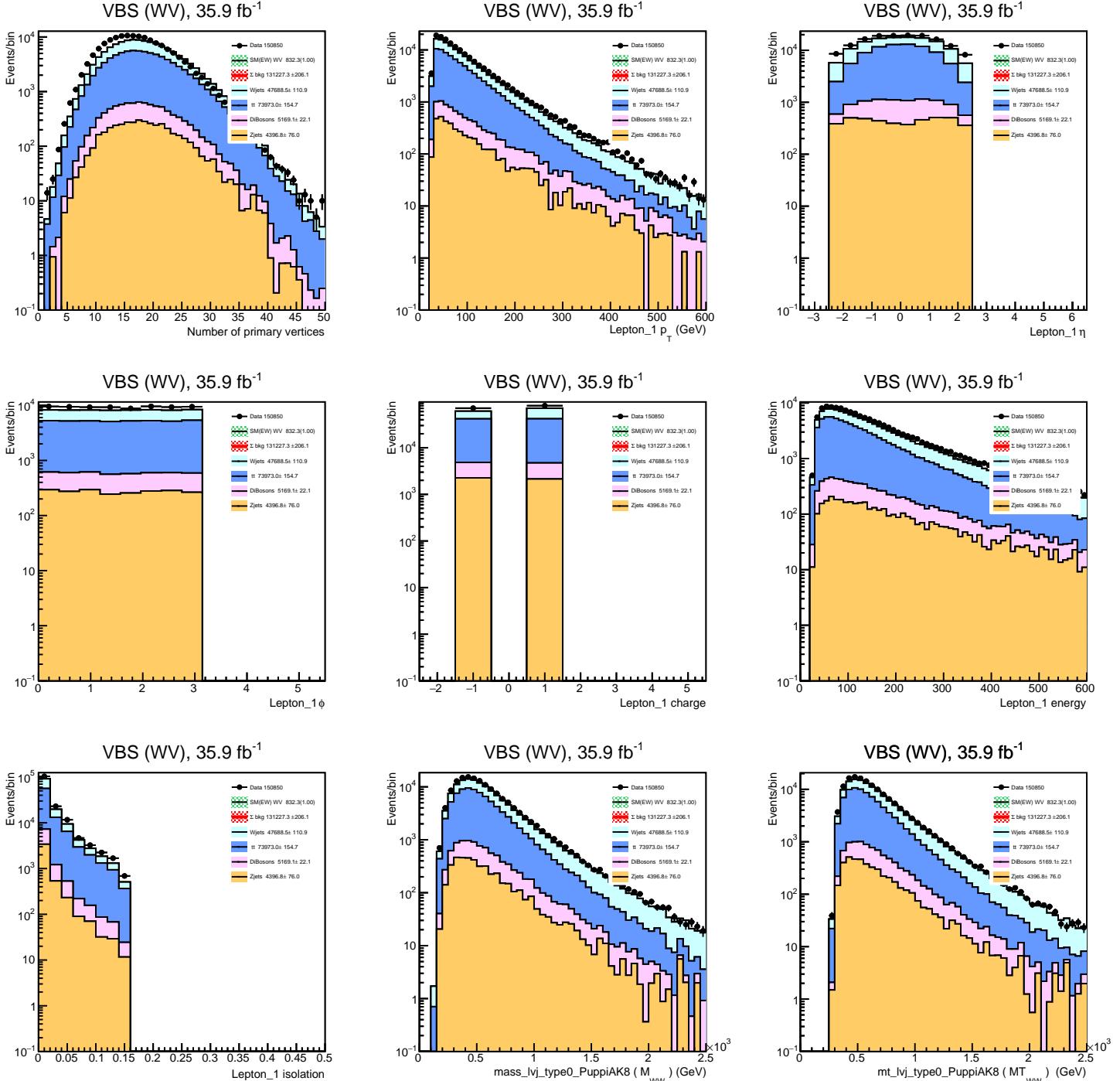


Figure 2: 0000 plot of c2 variables using cut: “test”

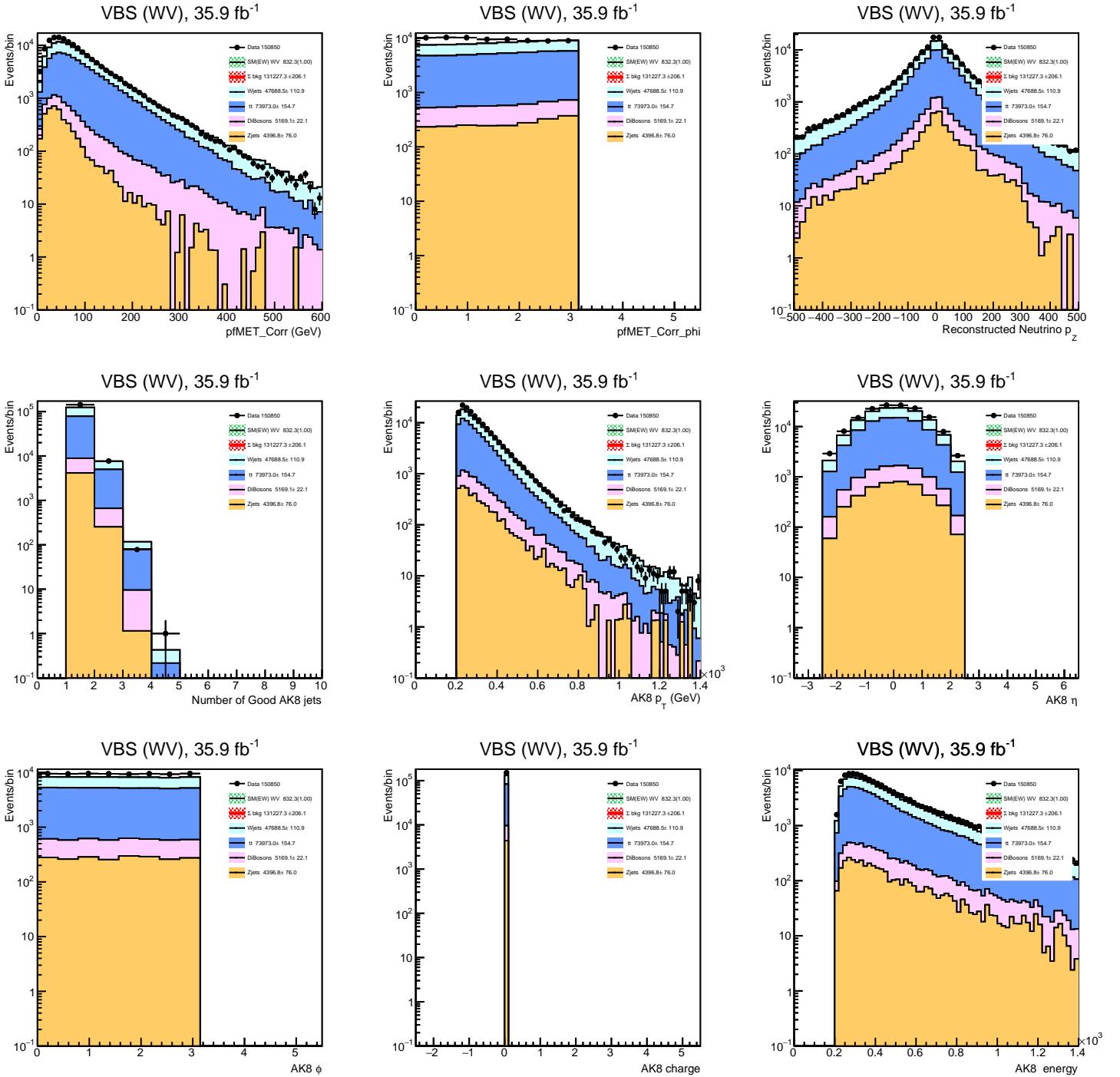
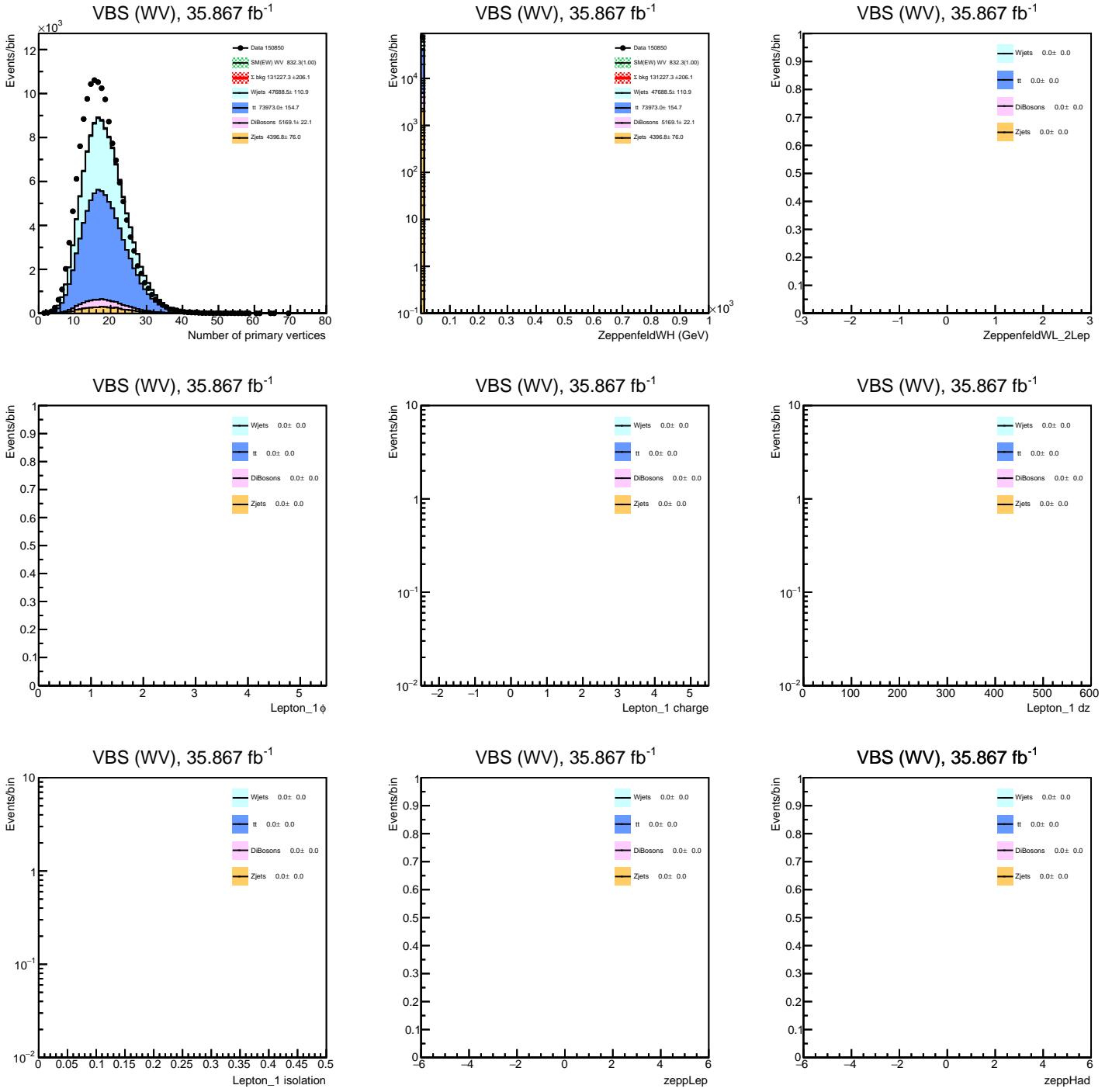


Figure 3: 0000 plot of c3 variables using cut: “test”



2016

Full\_SR

Figure 4: 2016 plot of c1 variables using cut: “Full\_SR”

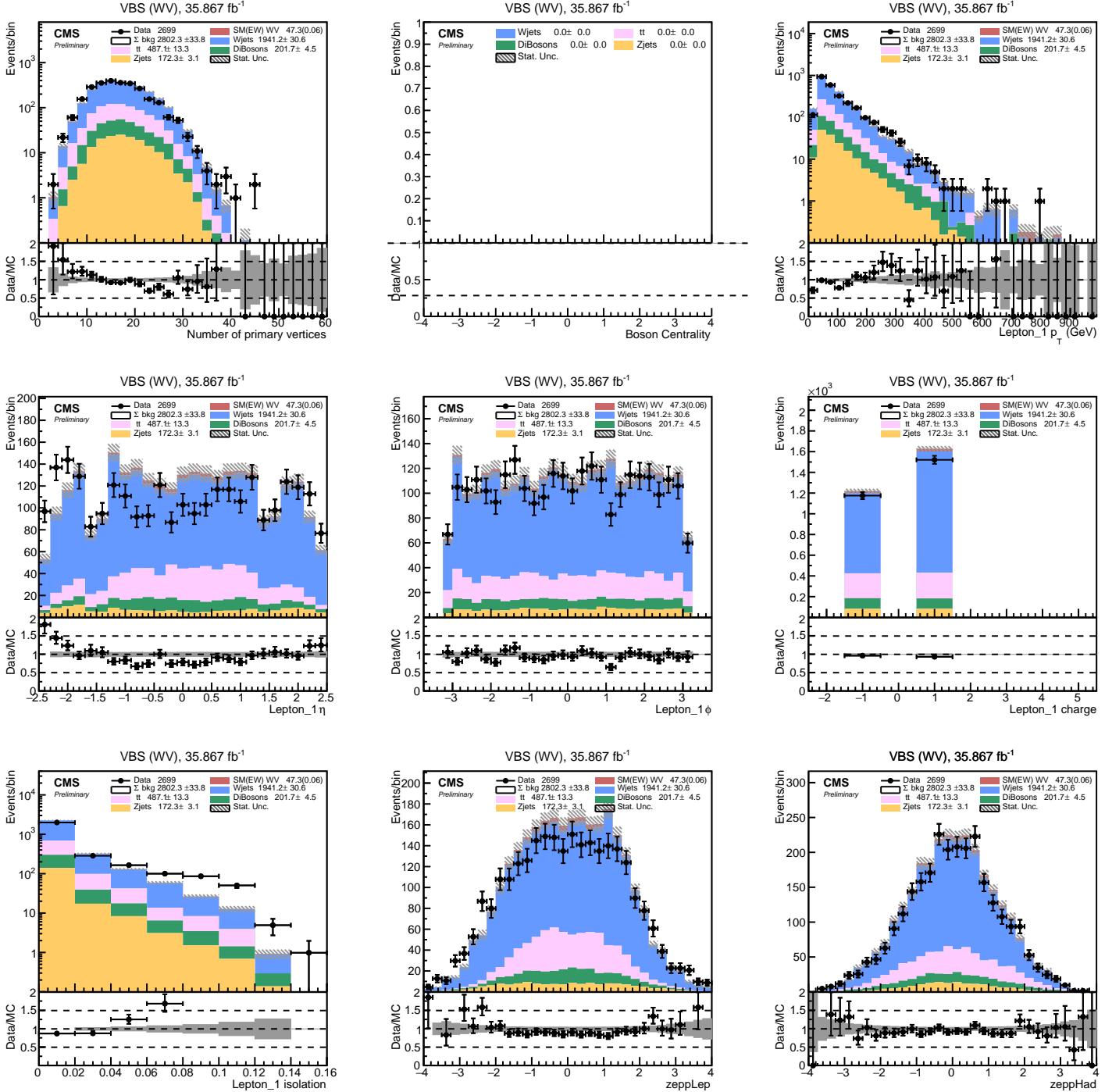


Figure 5: 2016 plot of c2 variables using cut: “Full\_SR”

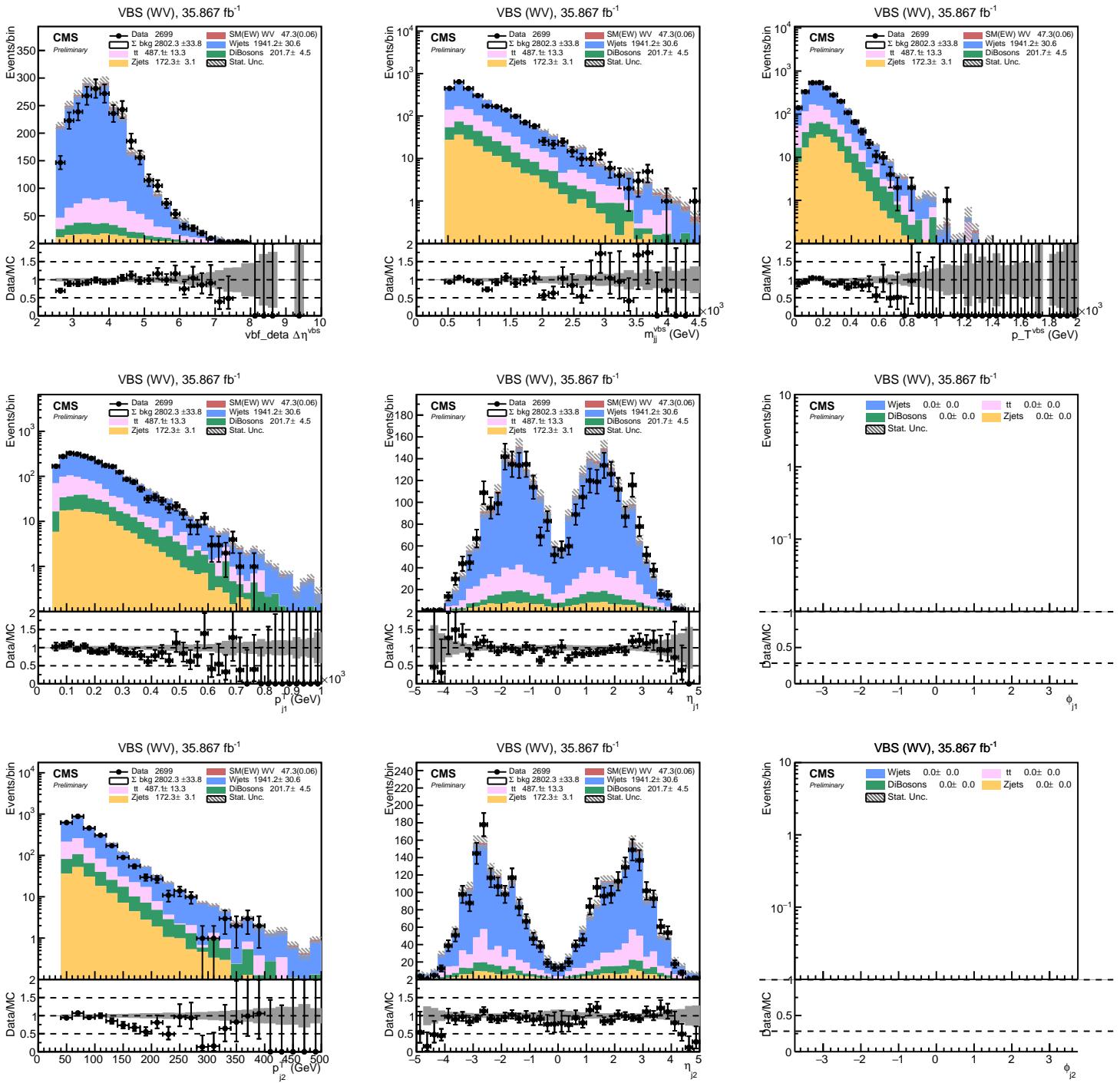


Figure 6: 2016 plot of c3 variables using cut: “Full\_SR”

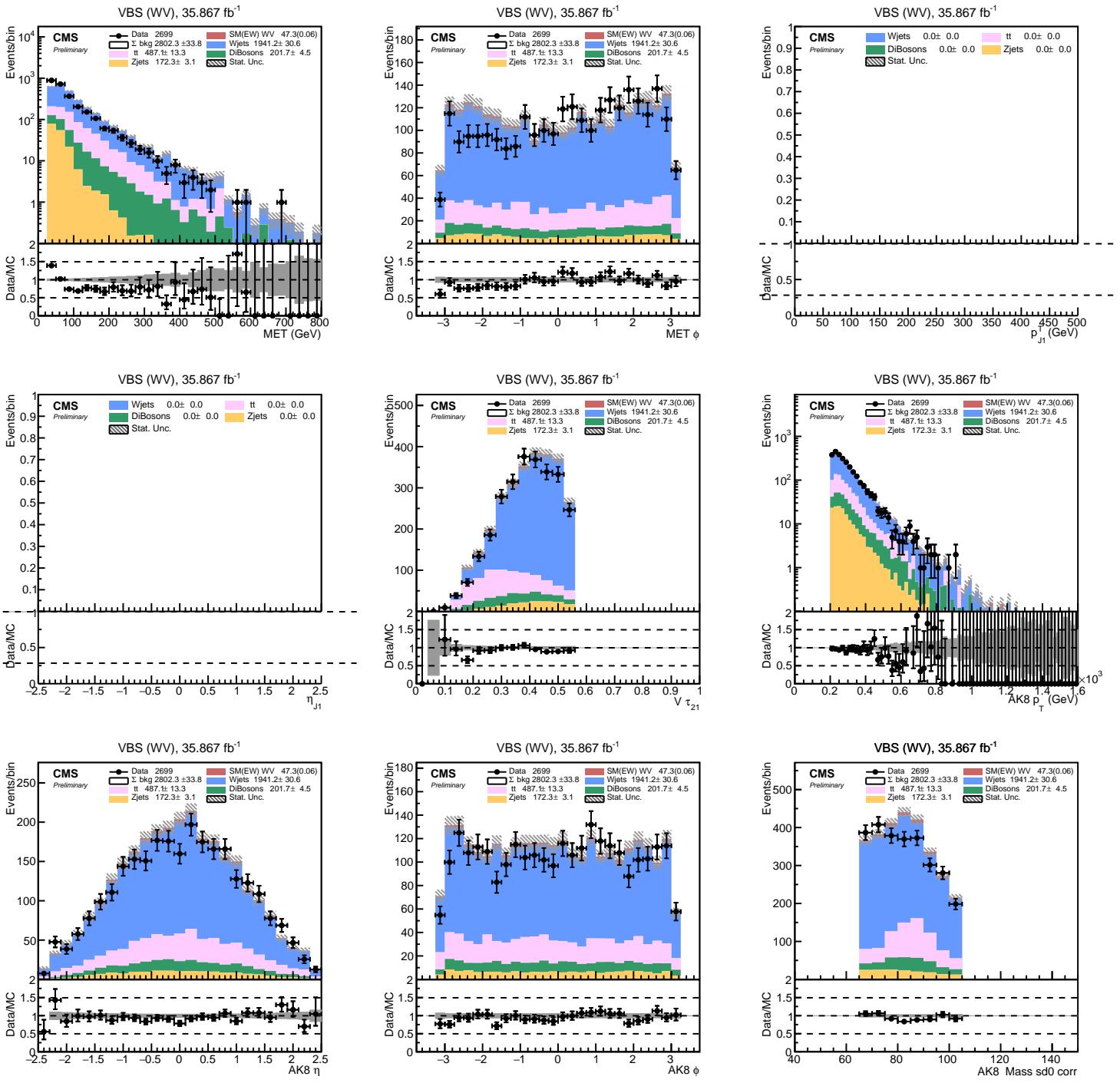
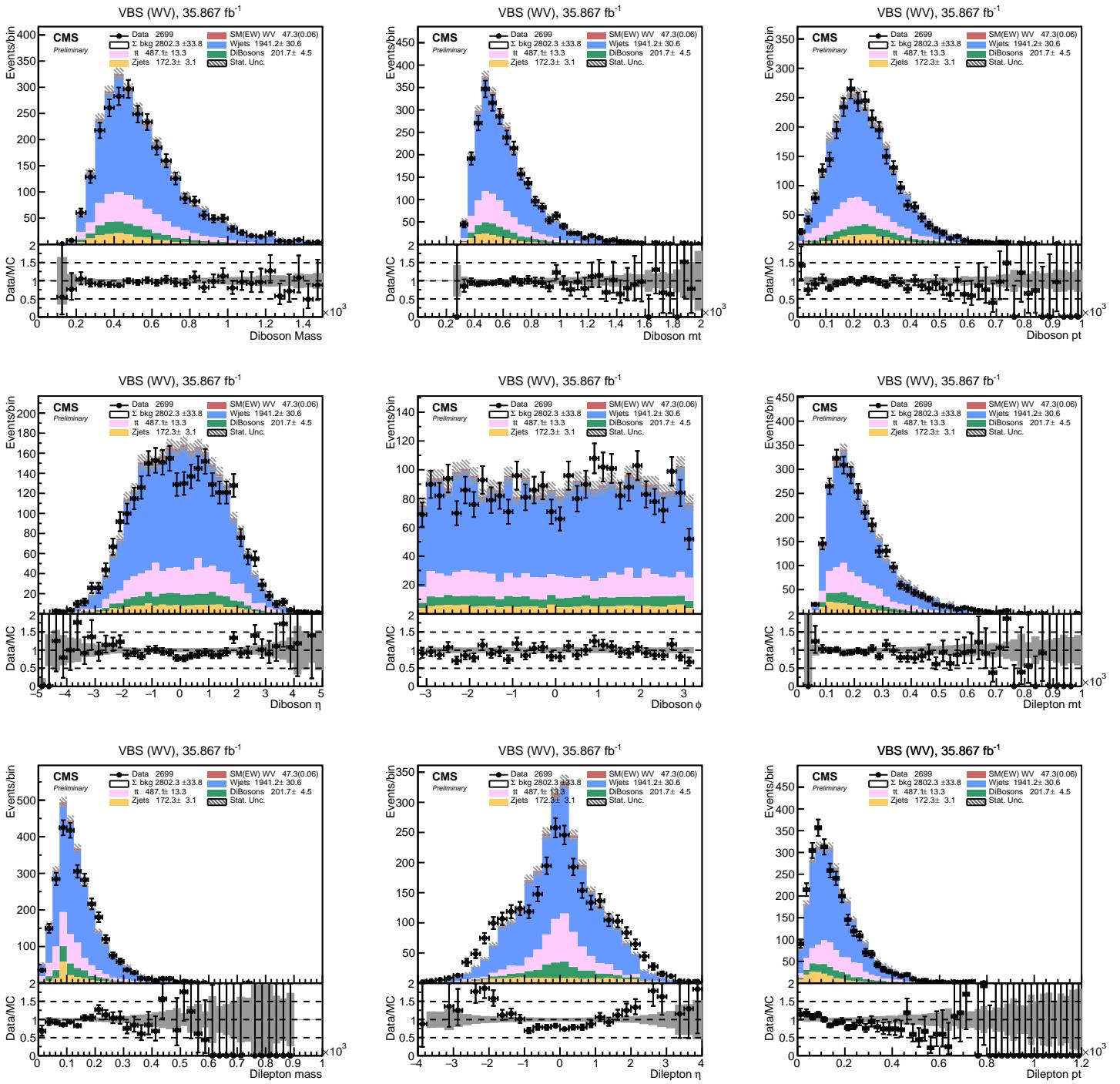


Figure 7: 2016 plot of c4 variables using cut: “Full\_SR”



# Top\_CR

Figure 8: 2016 plot of c1 variables using cut: “Top\_CR”

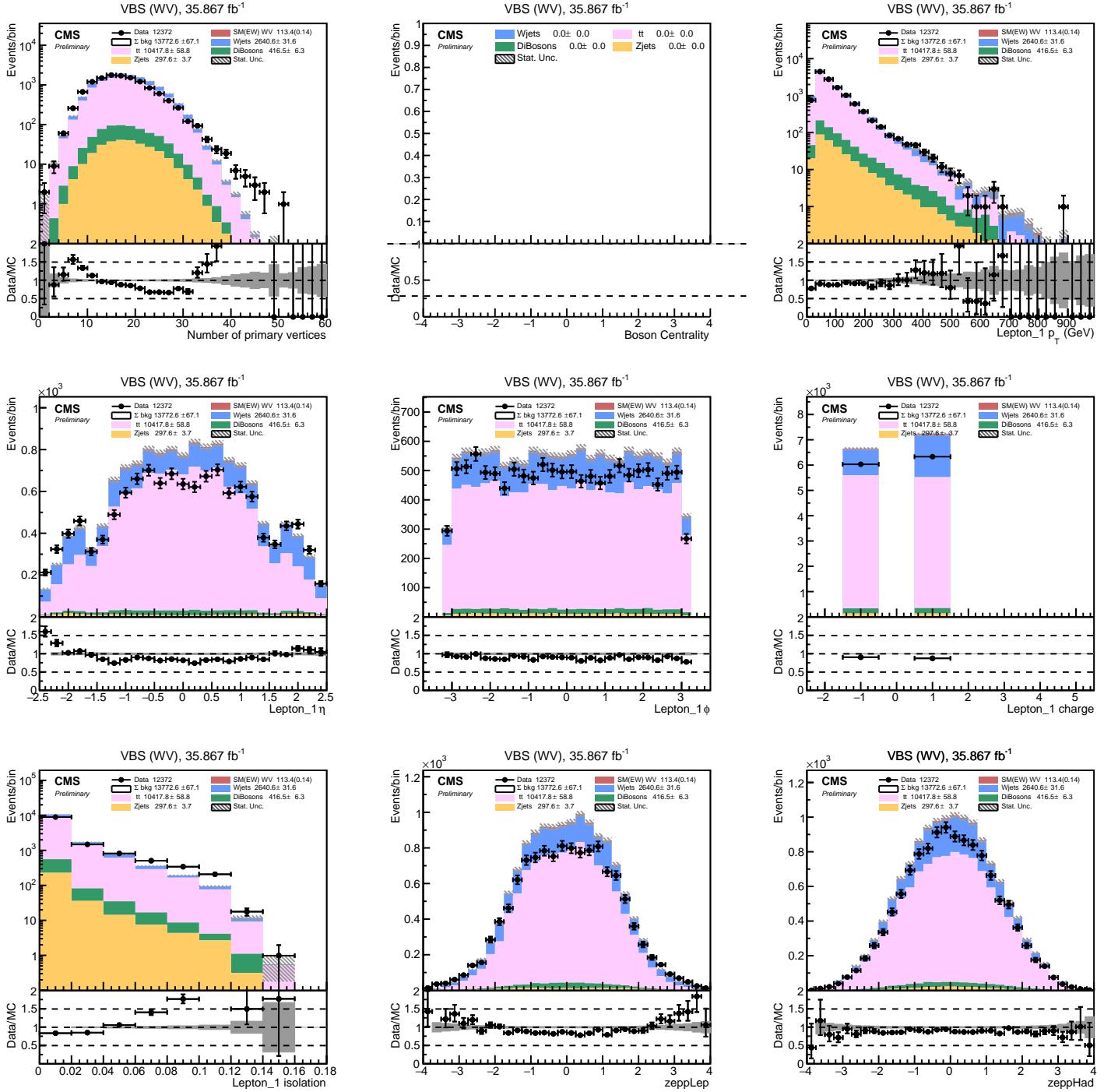


Figure 9: 2016 plot of c2 variables using cut: “Top\_CR”

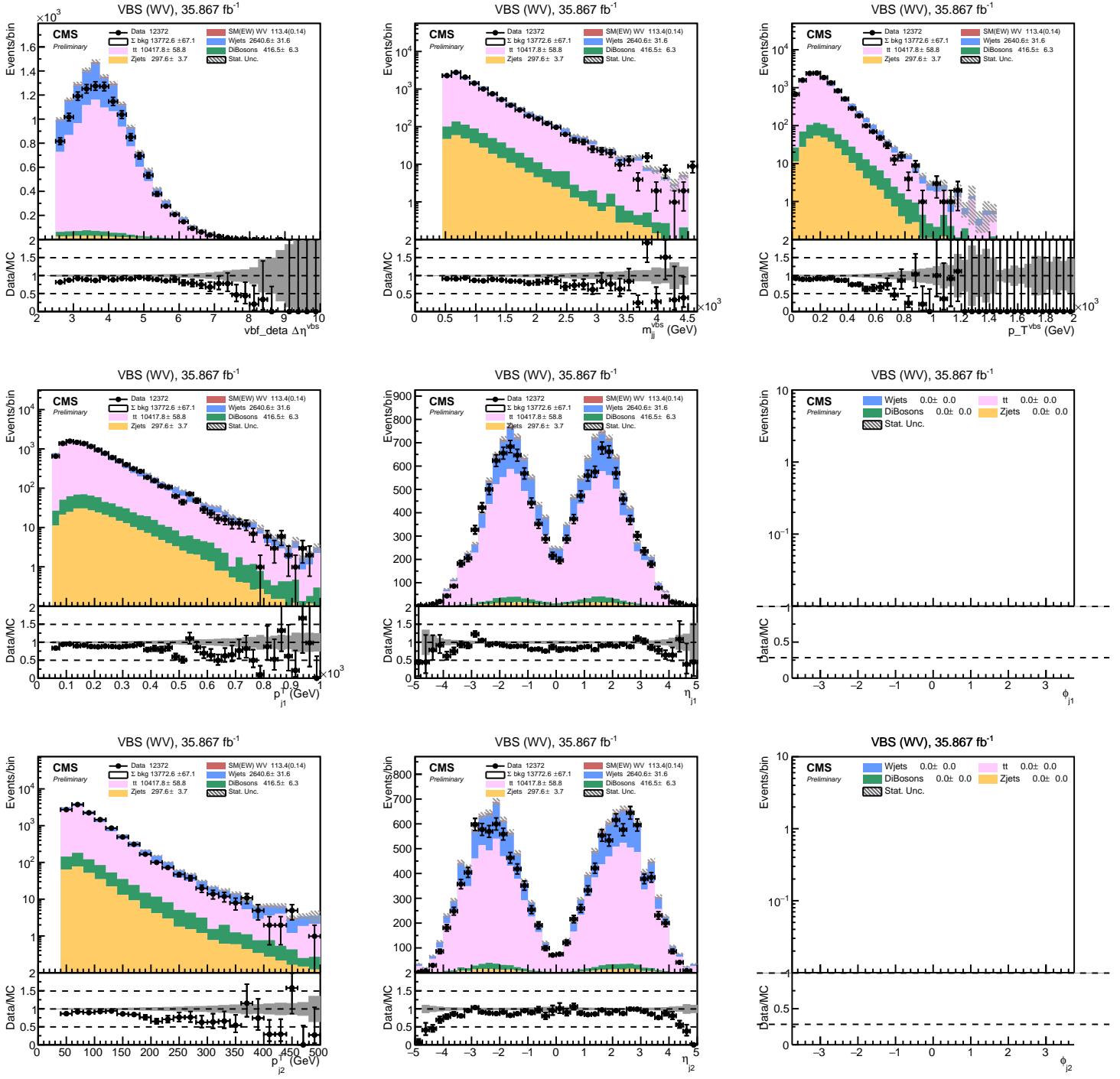


Figure 10: 2016 plot of c3 variables using cut: “Top\_CRF”

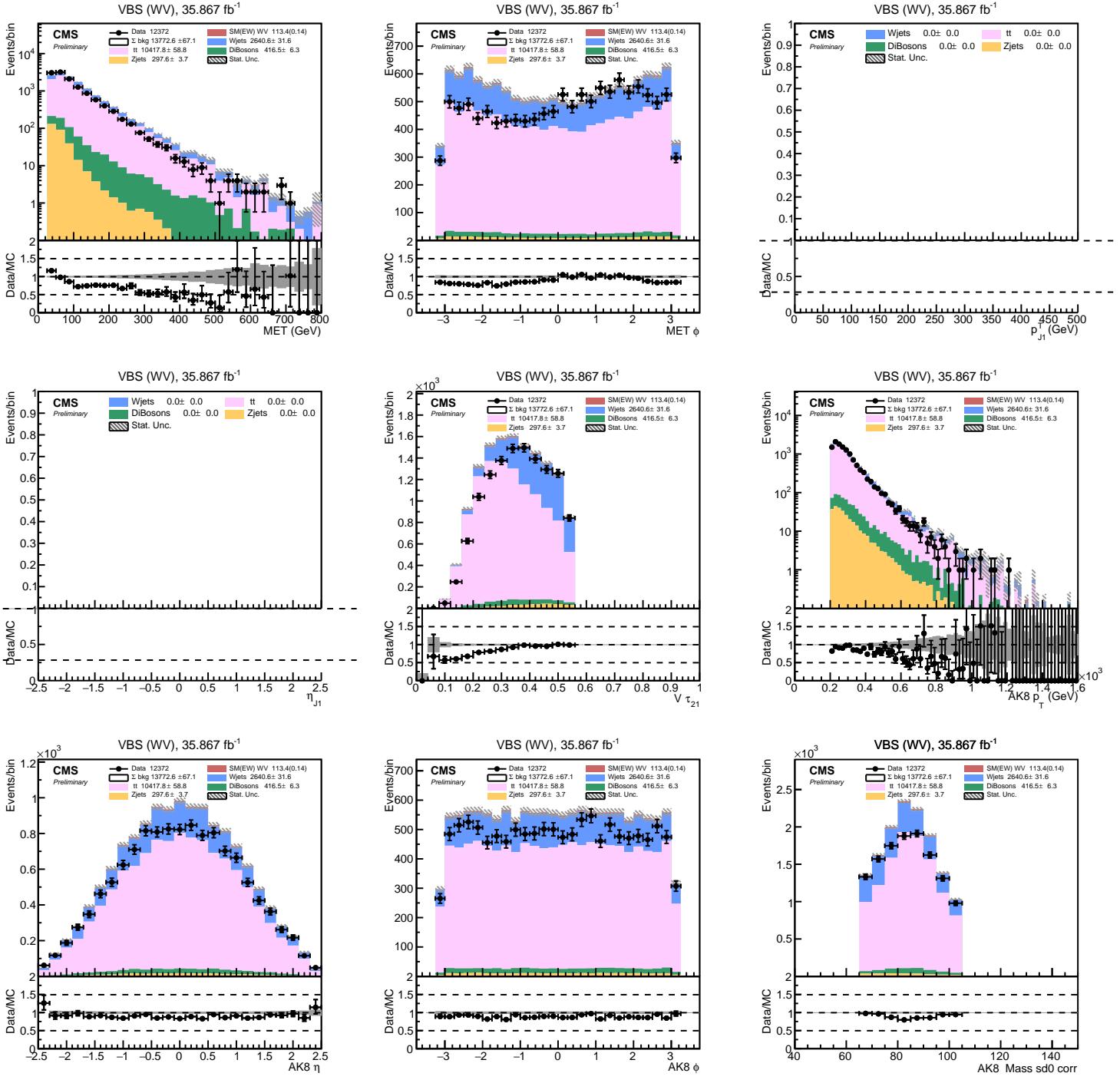
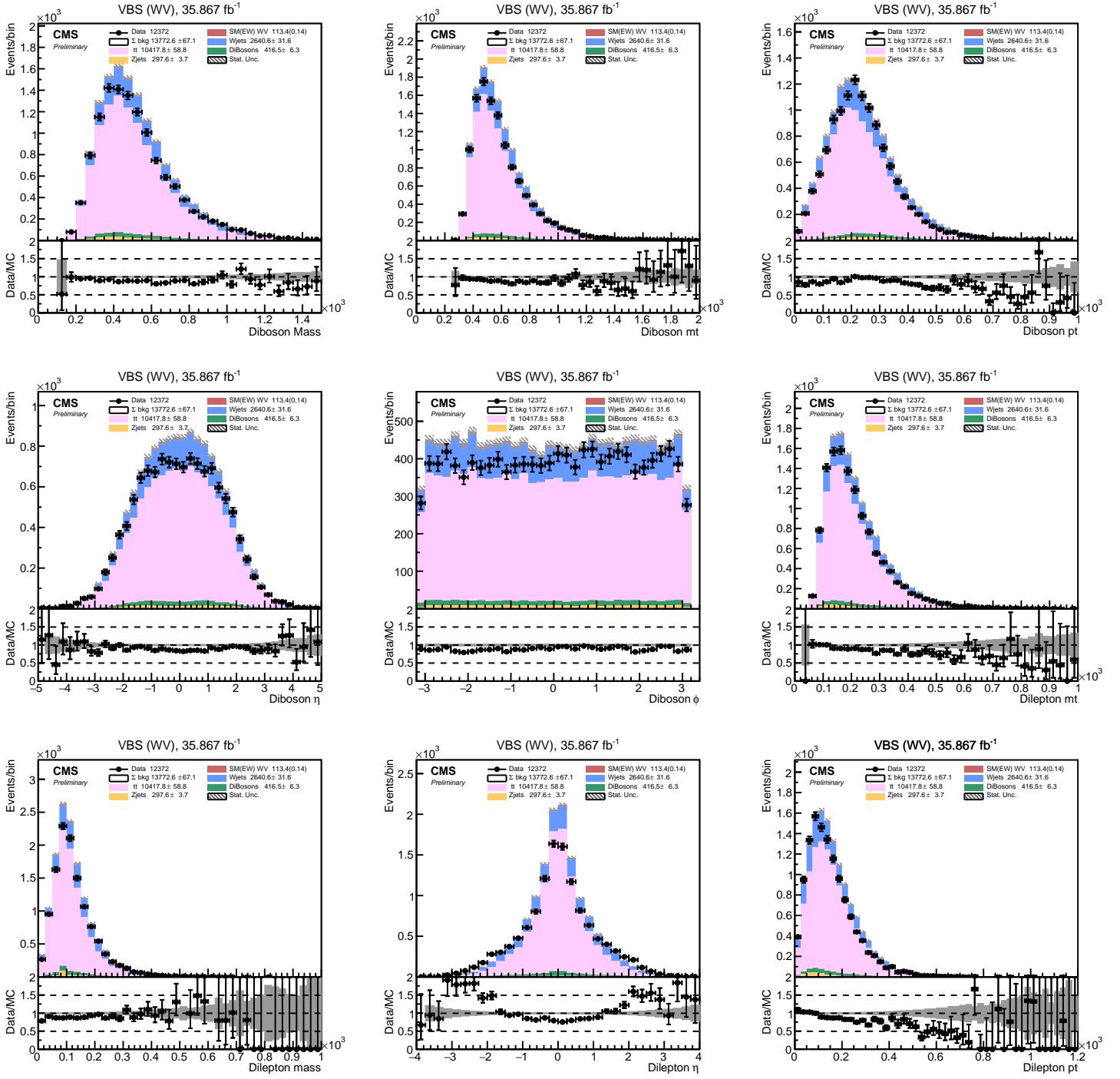


Figure 11: 2016 plot of c4 variables using cut: “Top\_CR”



## Wjets\_CR

Figure 12: 2016 plot of c1 variables using cut: “Wjets\_CR”

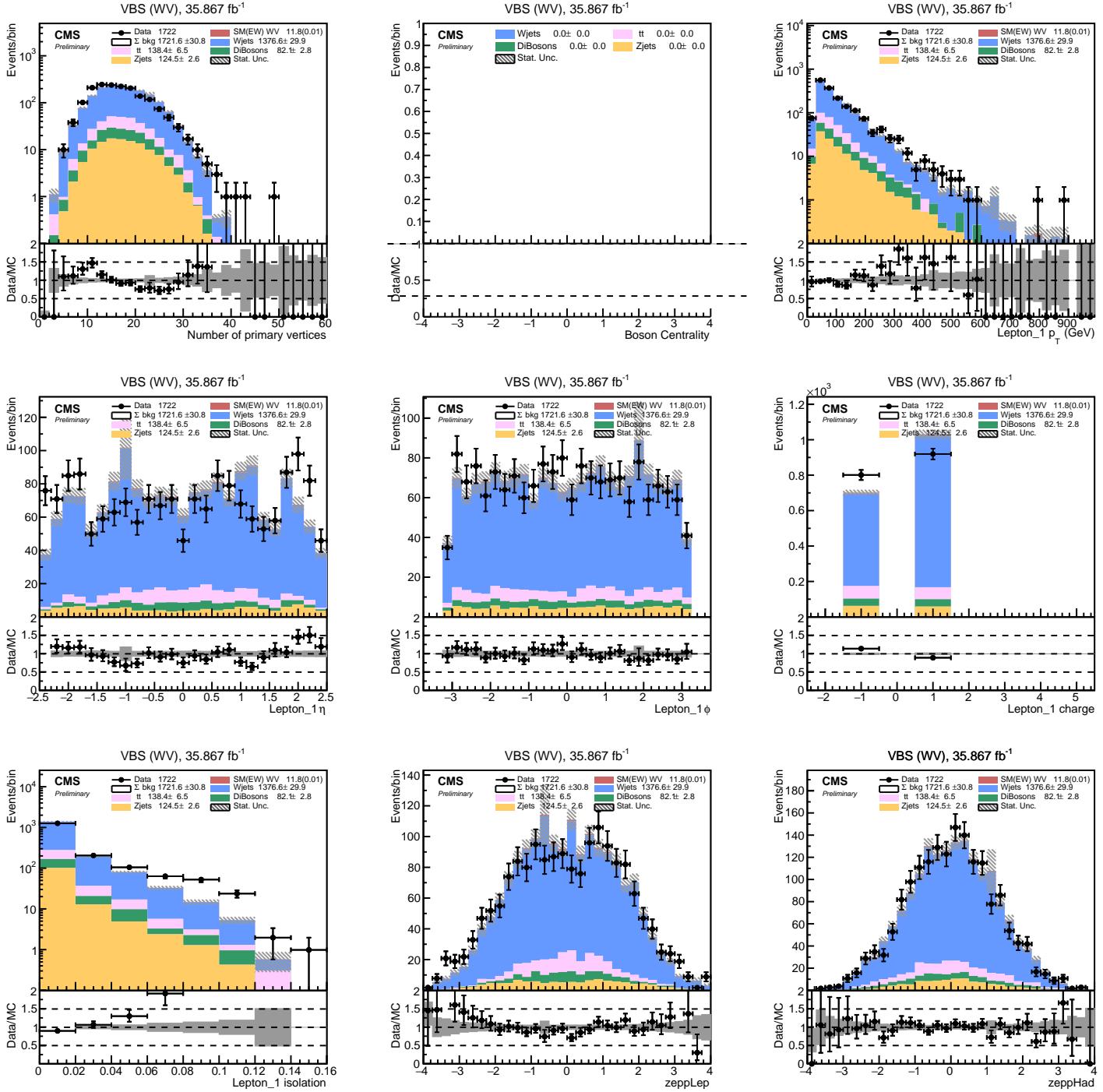


Figure 13: 2016 plot of c2 variables using cut: “Wjets\_CR”

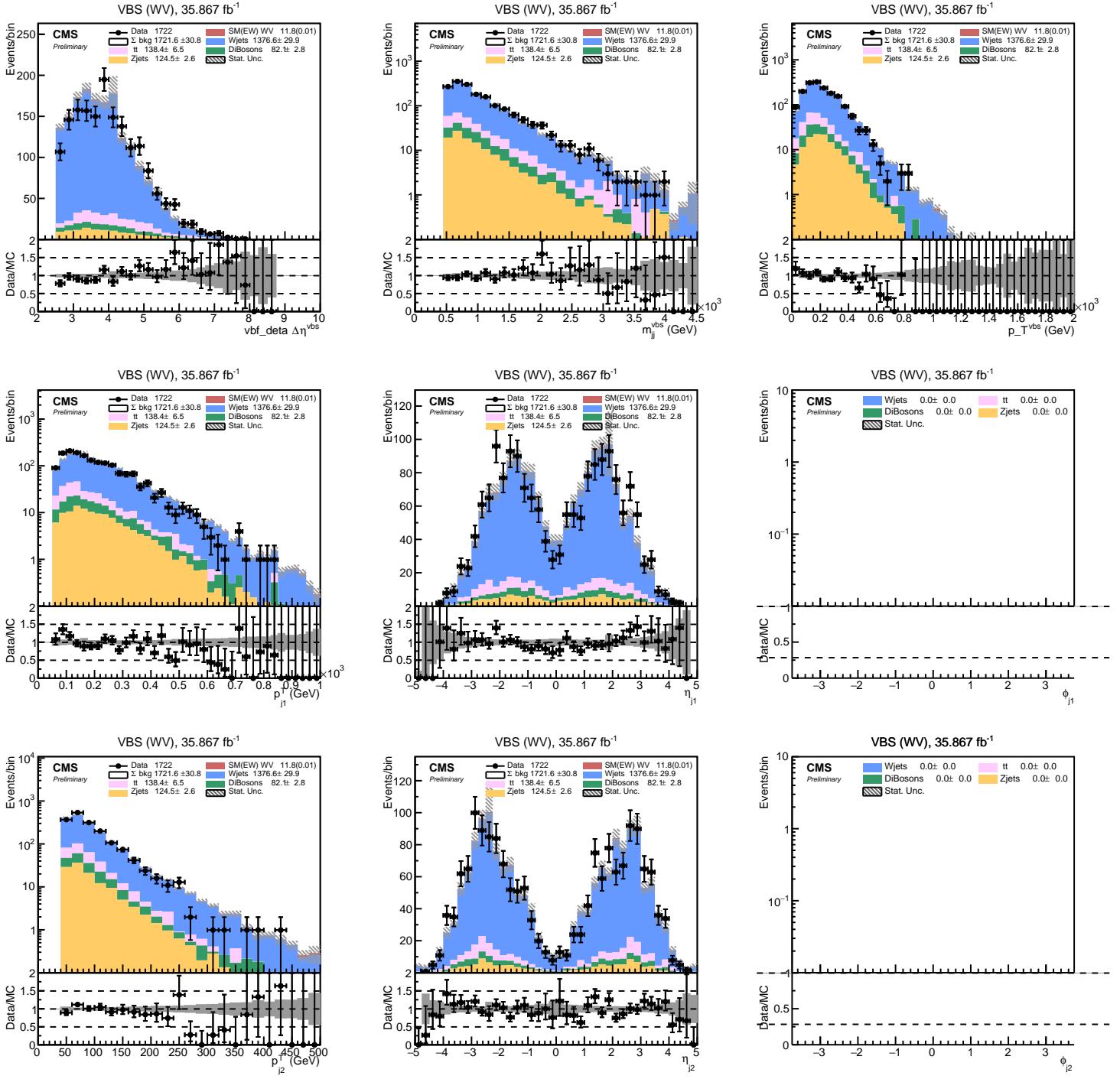


Figure 14: 2016 plot of c3 variables using cut: “Wjets\_CR”

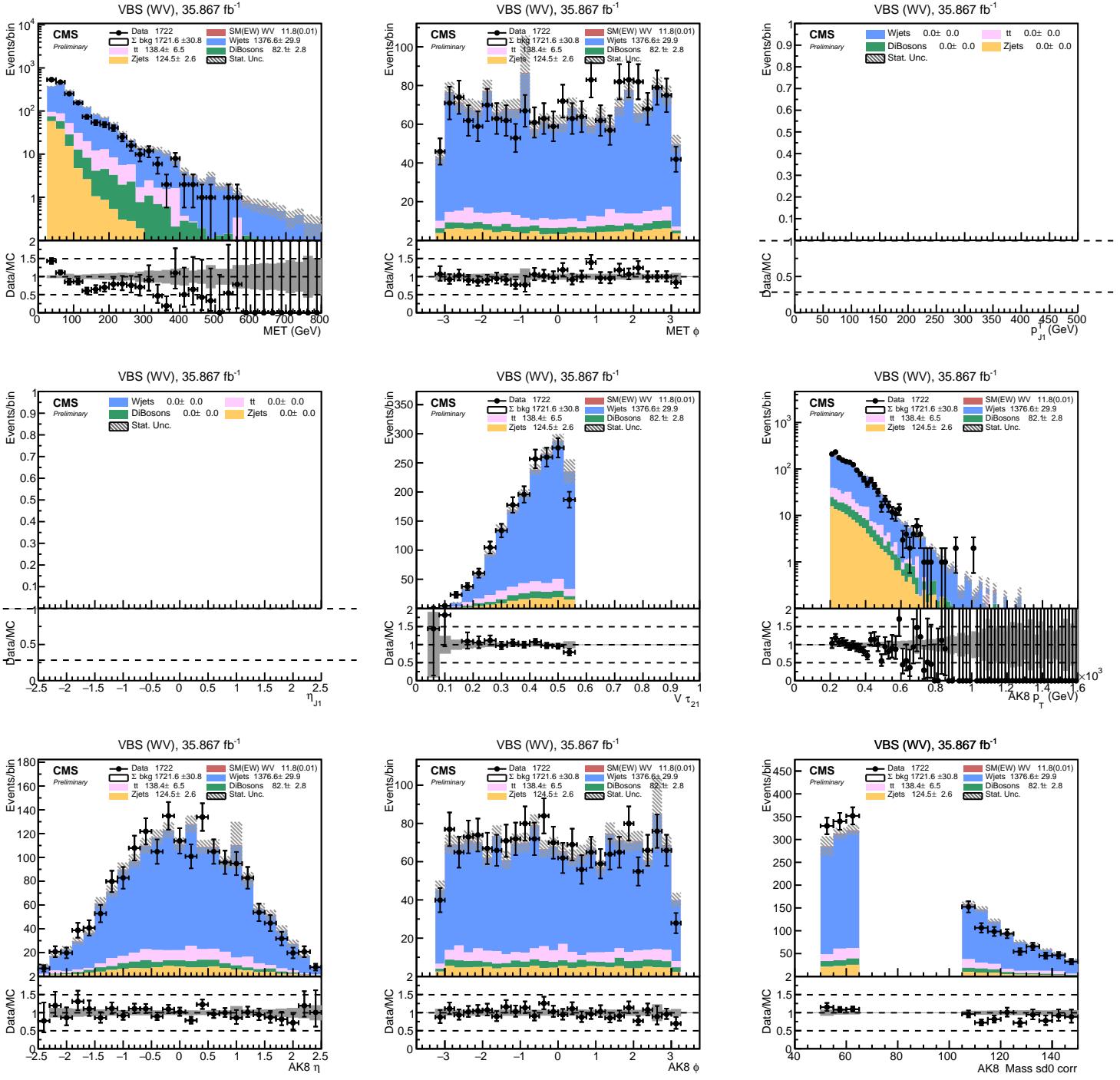
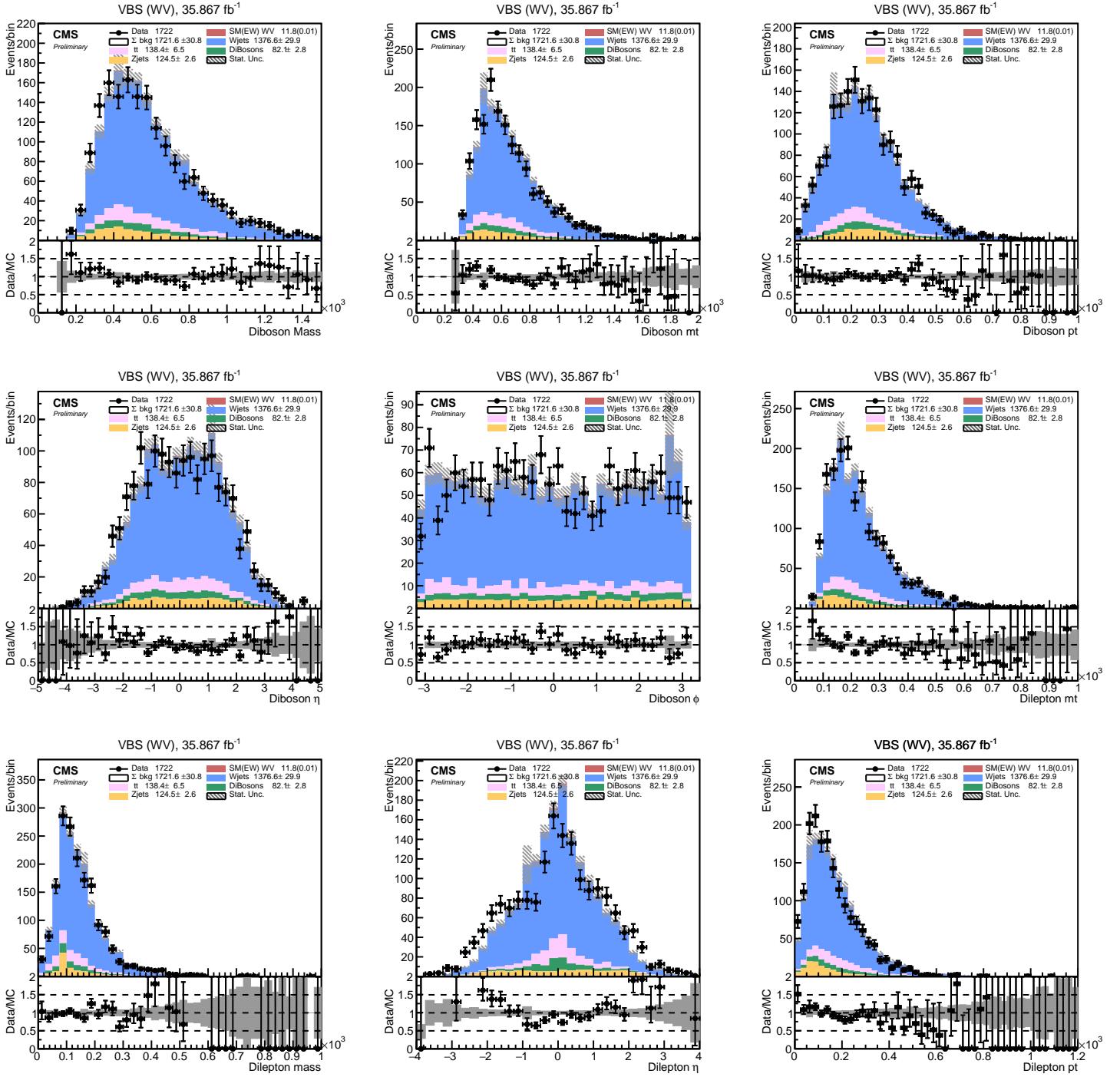


Figure 15: 2016 plot of c4 variables using cut: “Wjets\_CR”



2017

## Full\_SR

Figure 16: 2017 plot of c1 variables using cut: “Full\_SR”

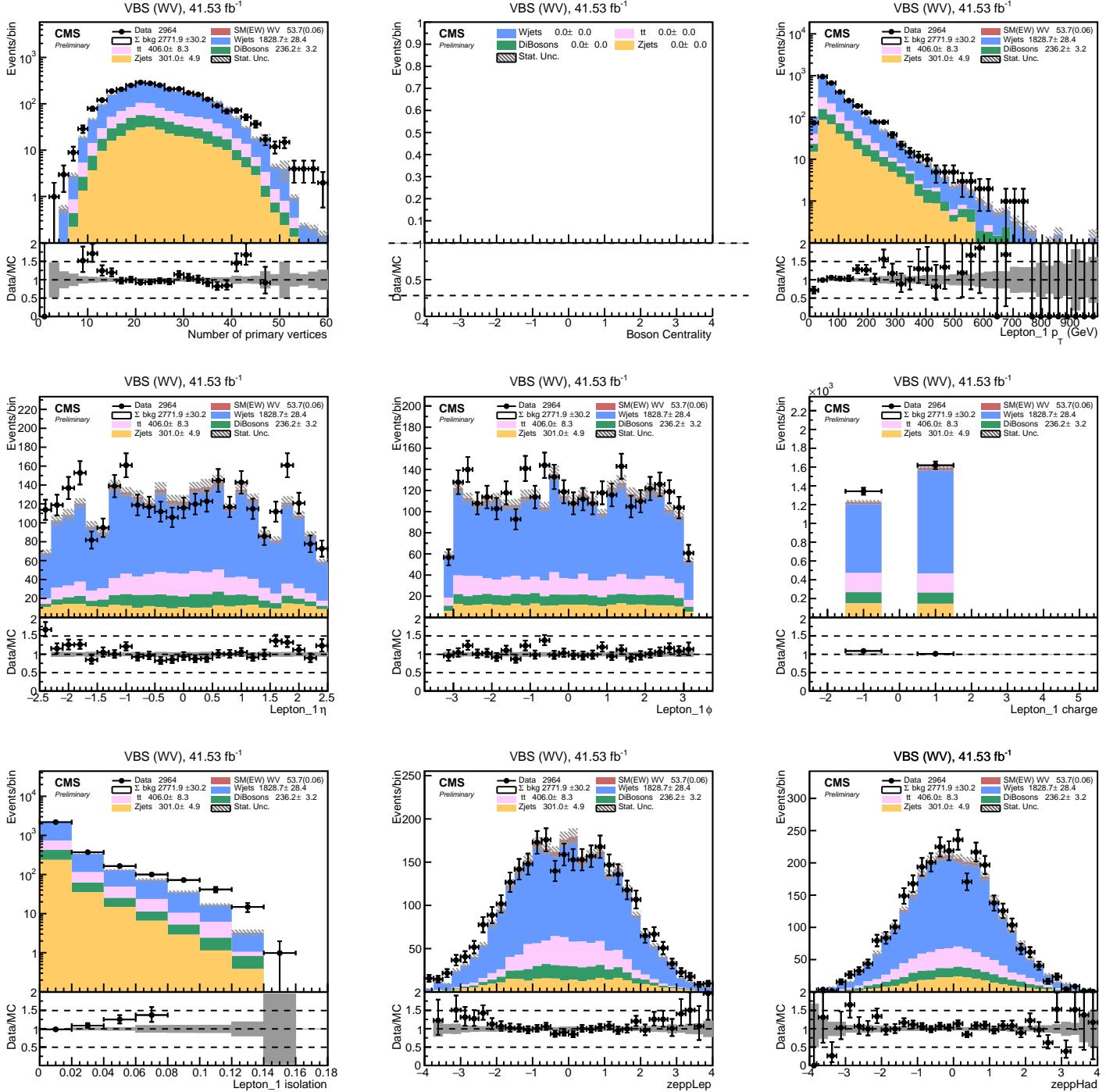


Figure 17: 2017 plot of c2 variables using cut: “Full\_SR”

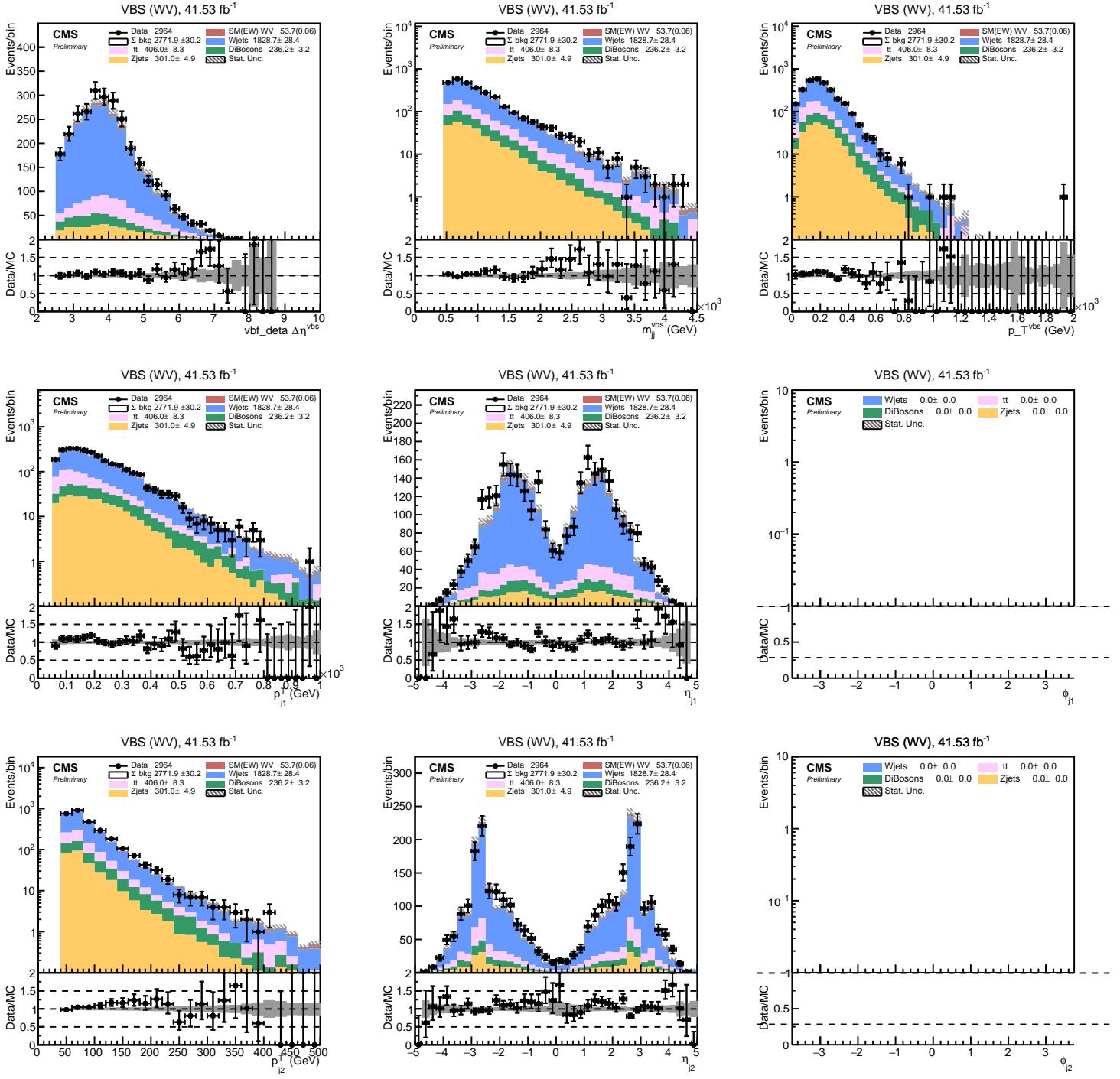


Figure 18: 2017 plot of c3 variables using cut: “Full\_SR”

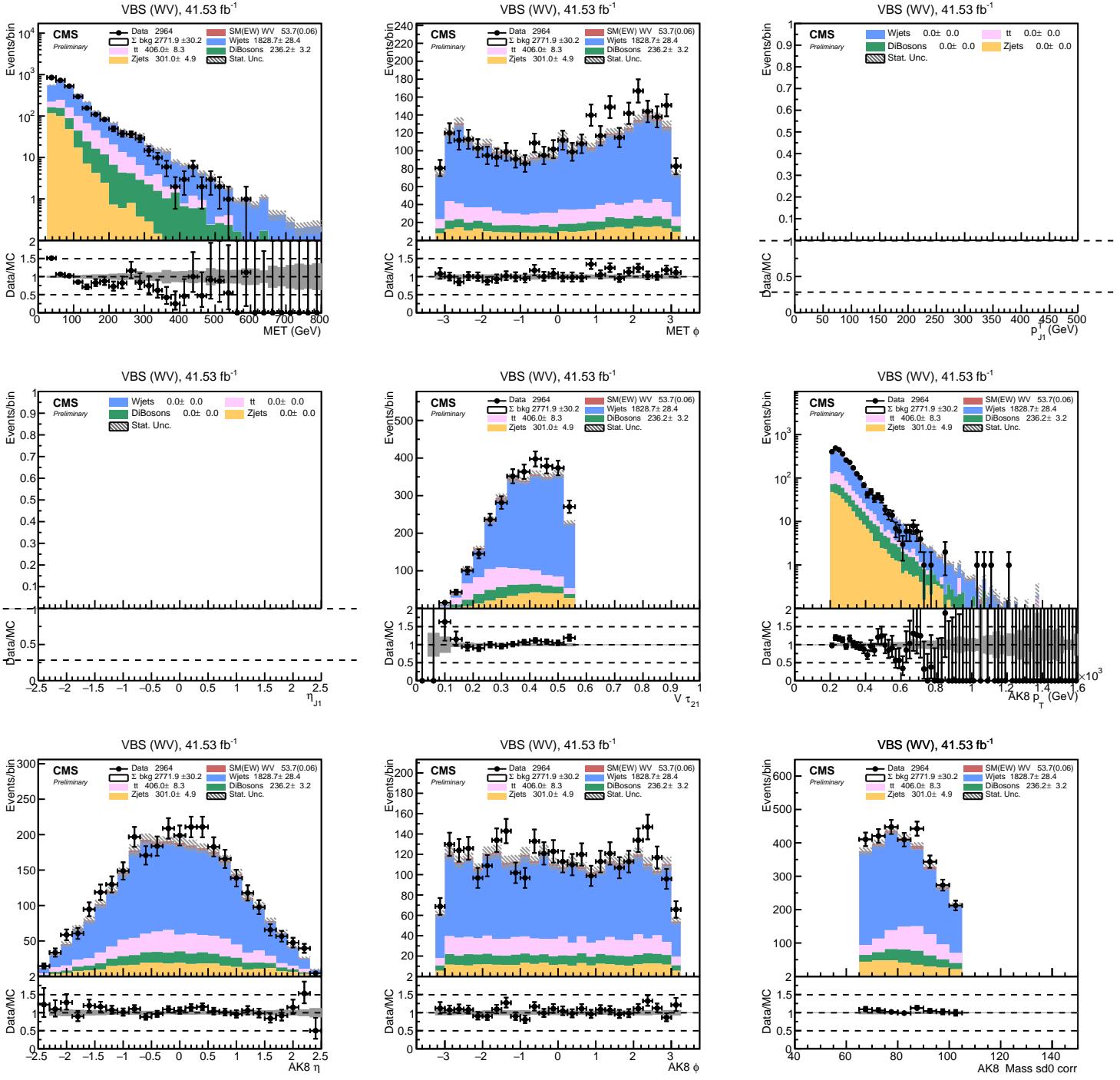
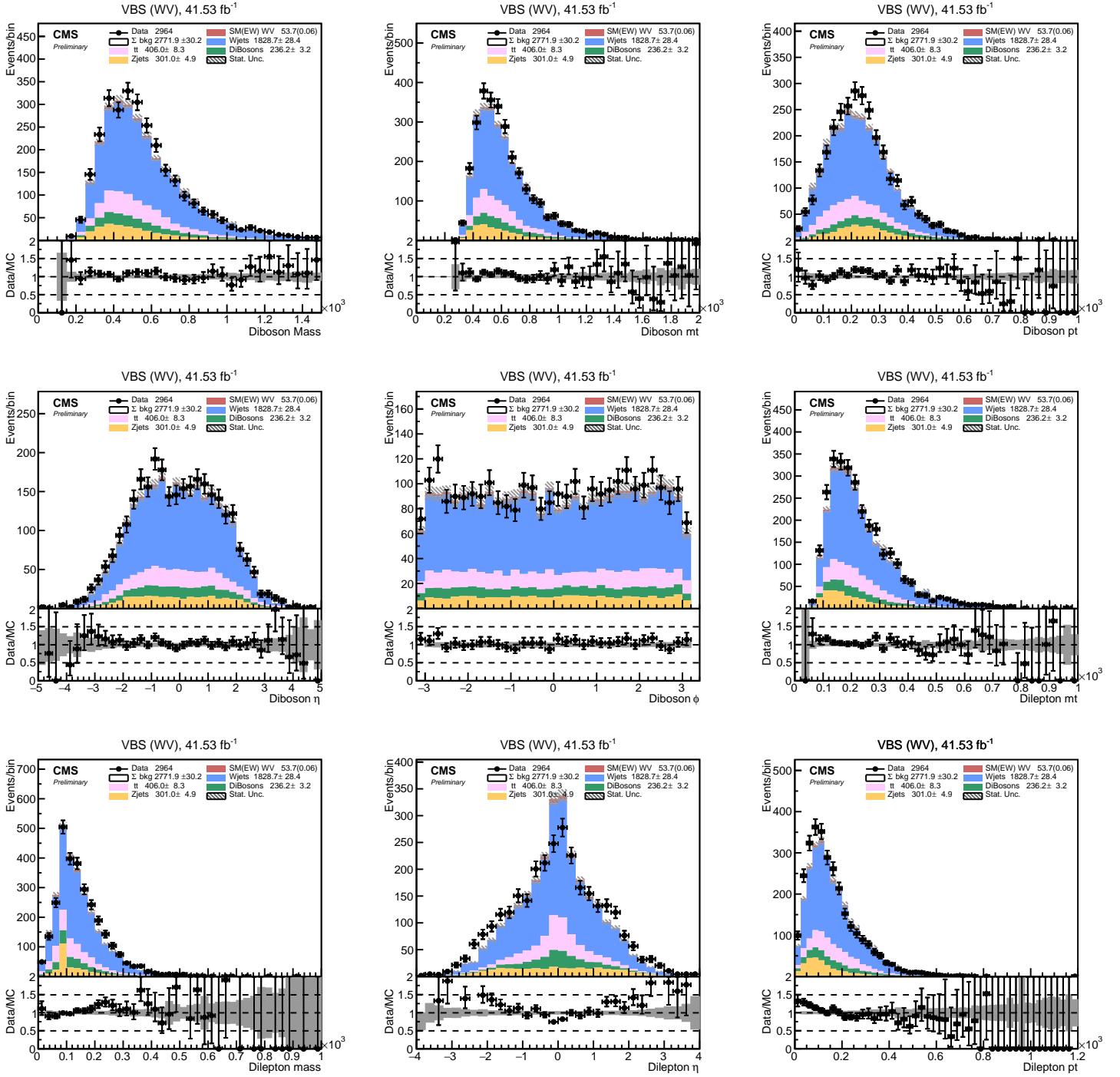


Figure 19: 2017 plot of c4 variables using cut: “Full\_SR”



# Top\_CR

Figure 20: 2017 plot of c1 variables using cut: “Top\_CR”

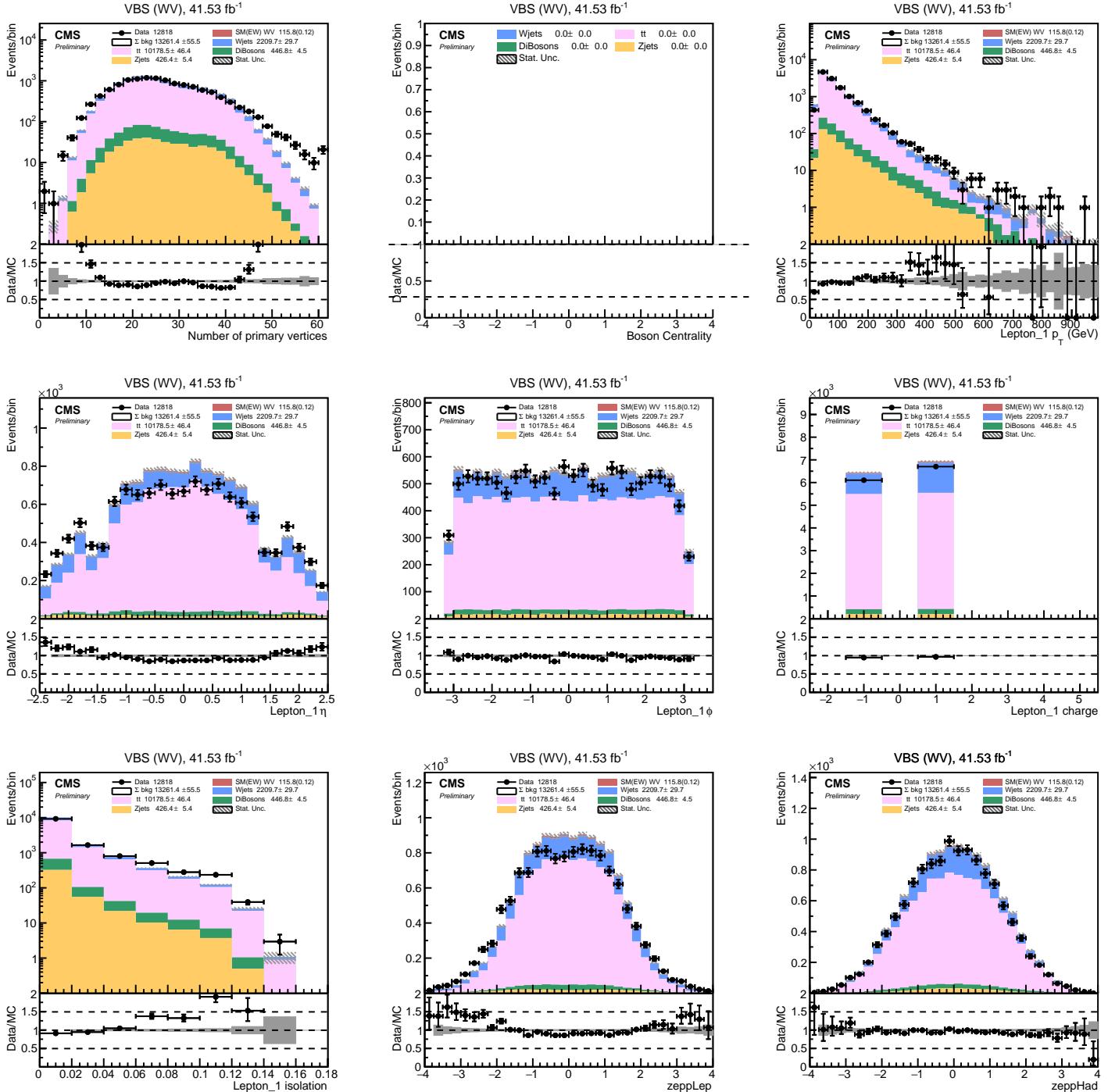


Figure 21: 2017 plot of c2 variables using cut: “Top\_CR”

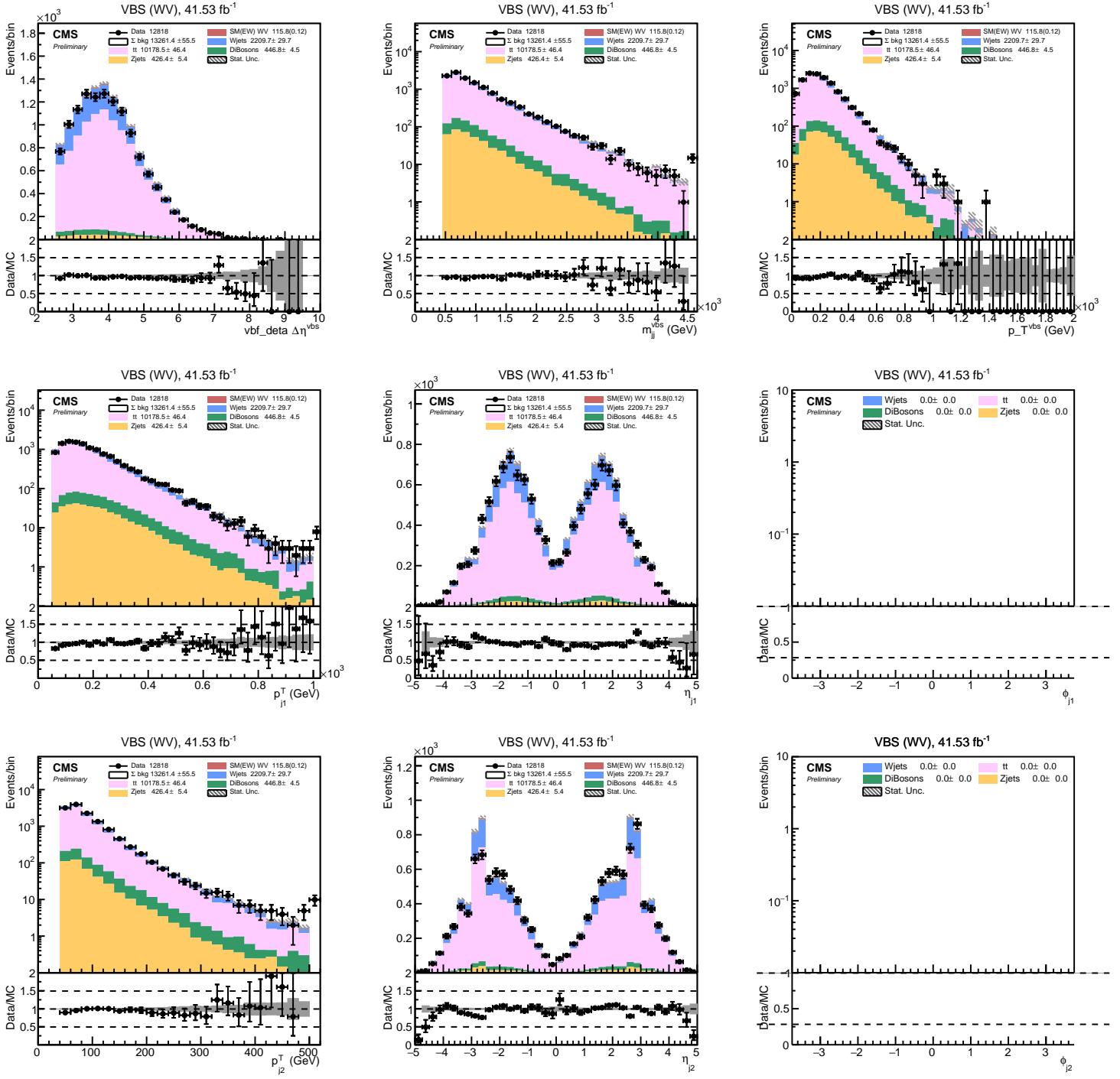


Figure 22: 2017 plot of c3 variables using cut: “Top\_CR”

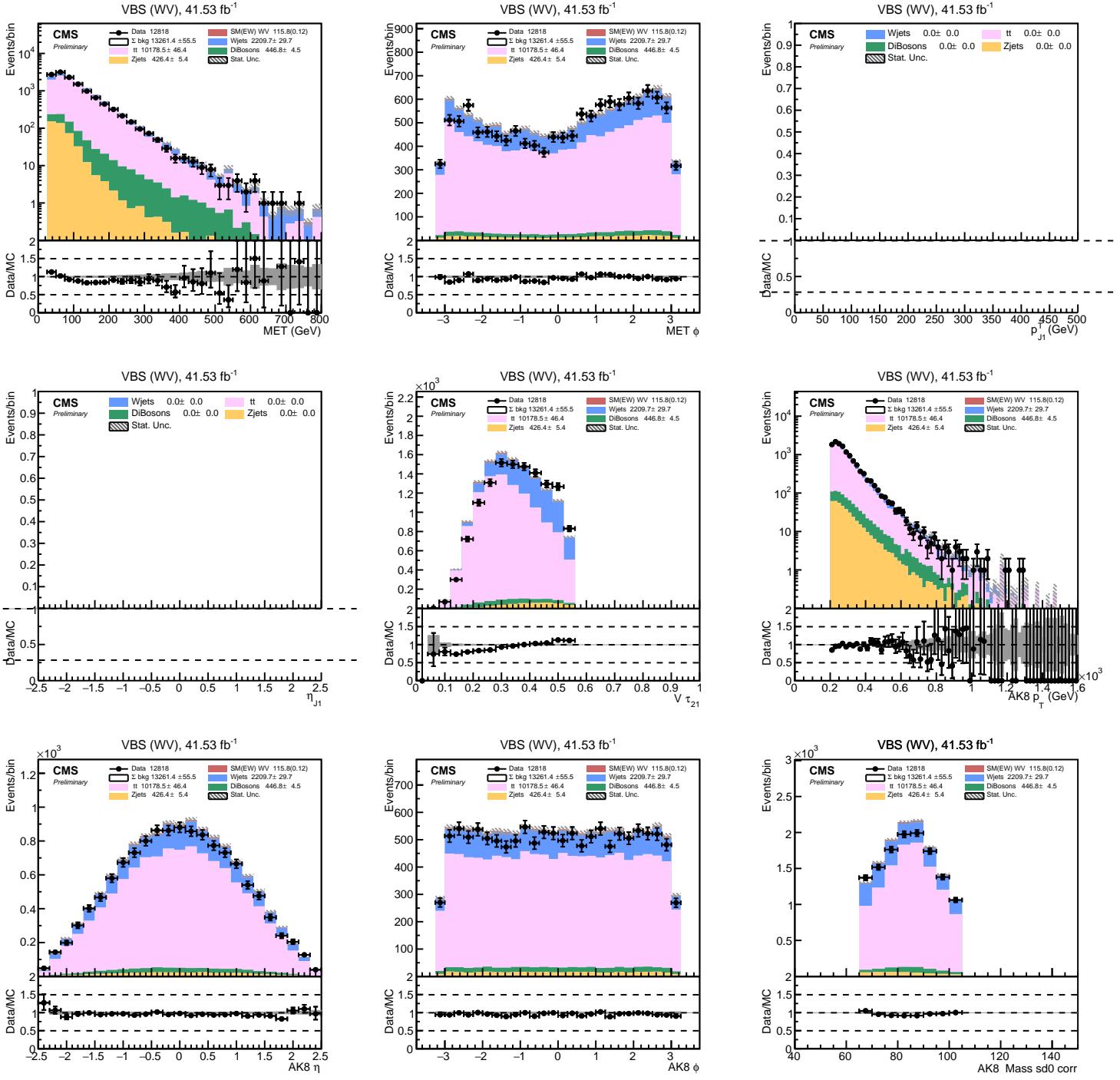
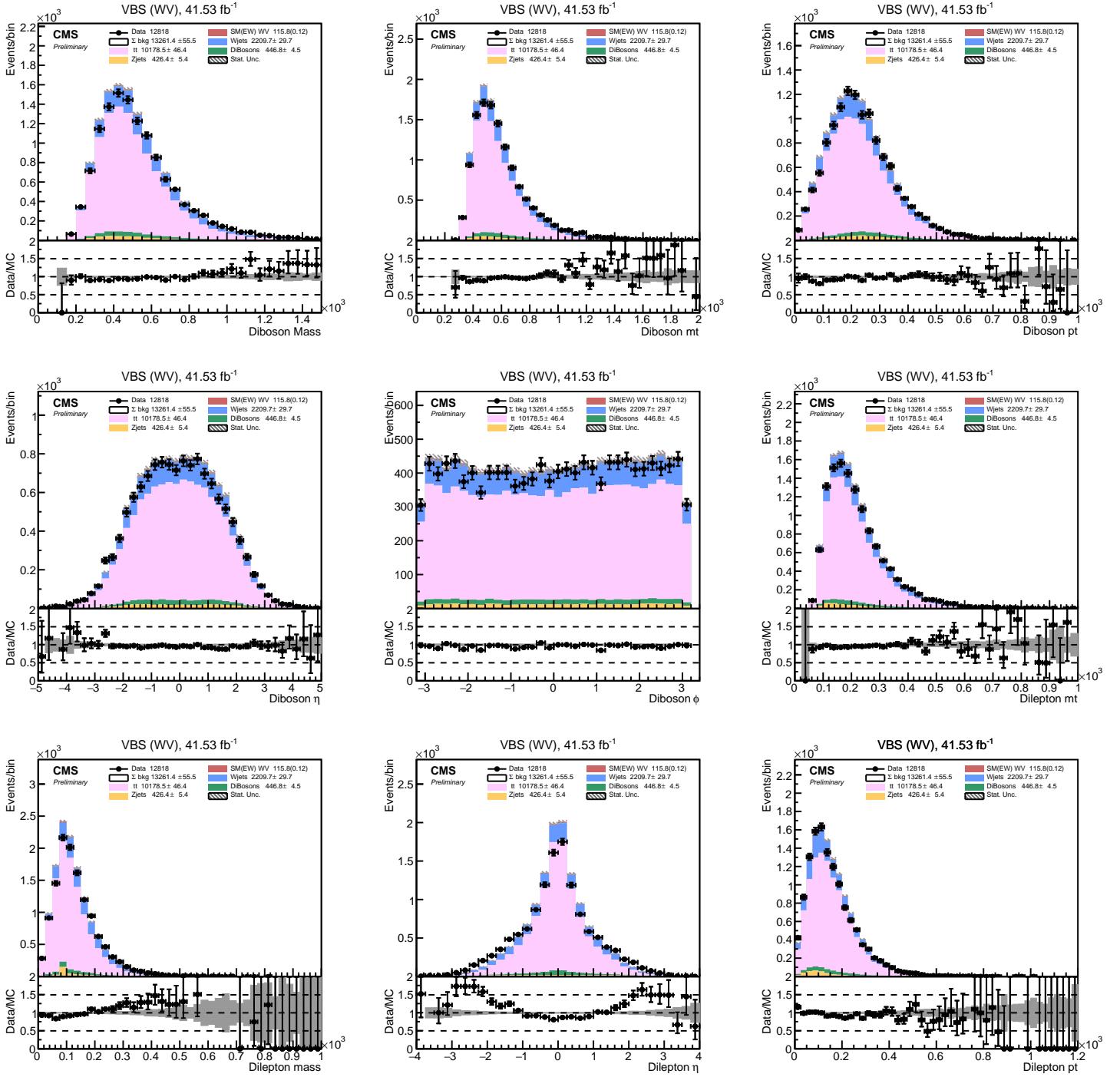


Figure 23: 2017 plot of c4 variables using cut: “Top\_CR”



## Wjets\_CR

Figure 24: 2017 plot of c1 variables using cut: “Wjets\_CR”

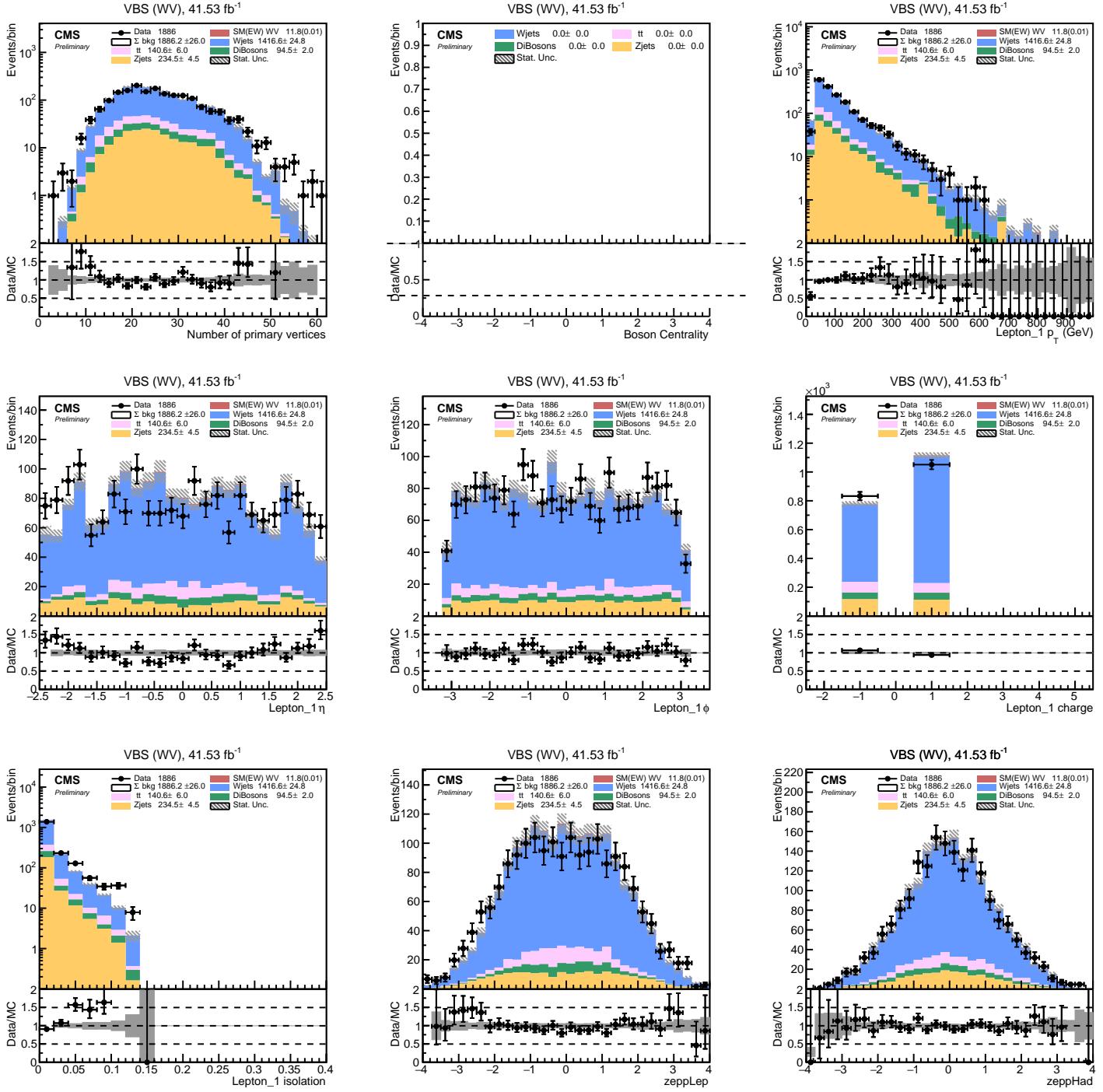


Figure 25: 2017 plot of c2 variables using cut: “Wjets\_CR”

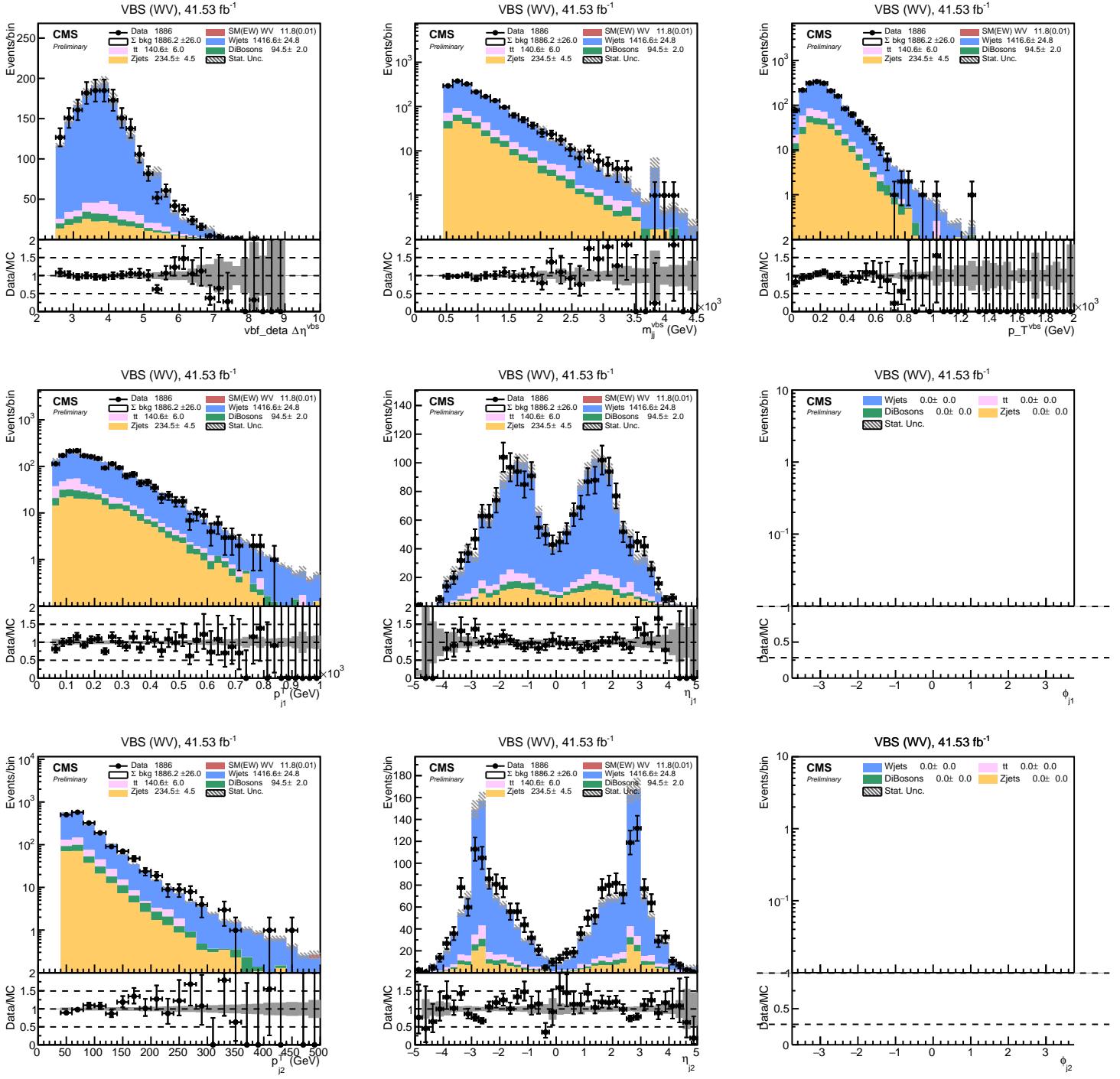


Figure 26: 2017 plot of c3 variables using cut: “Wjets\_CR”

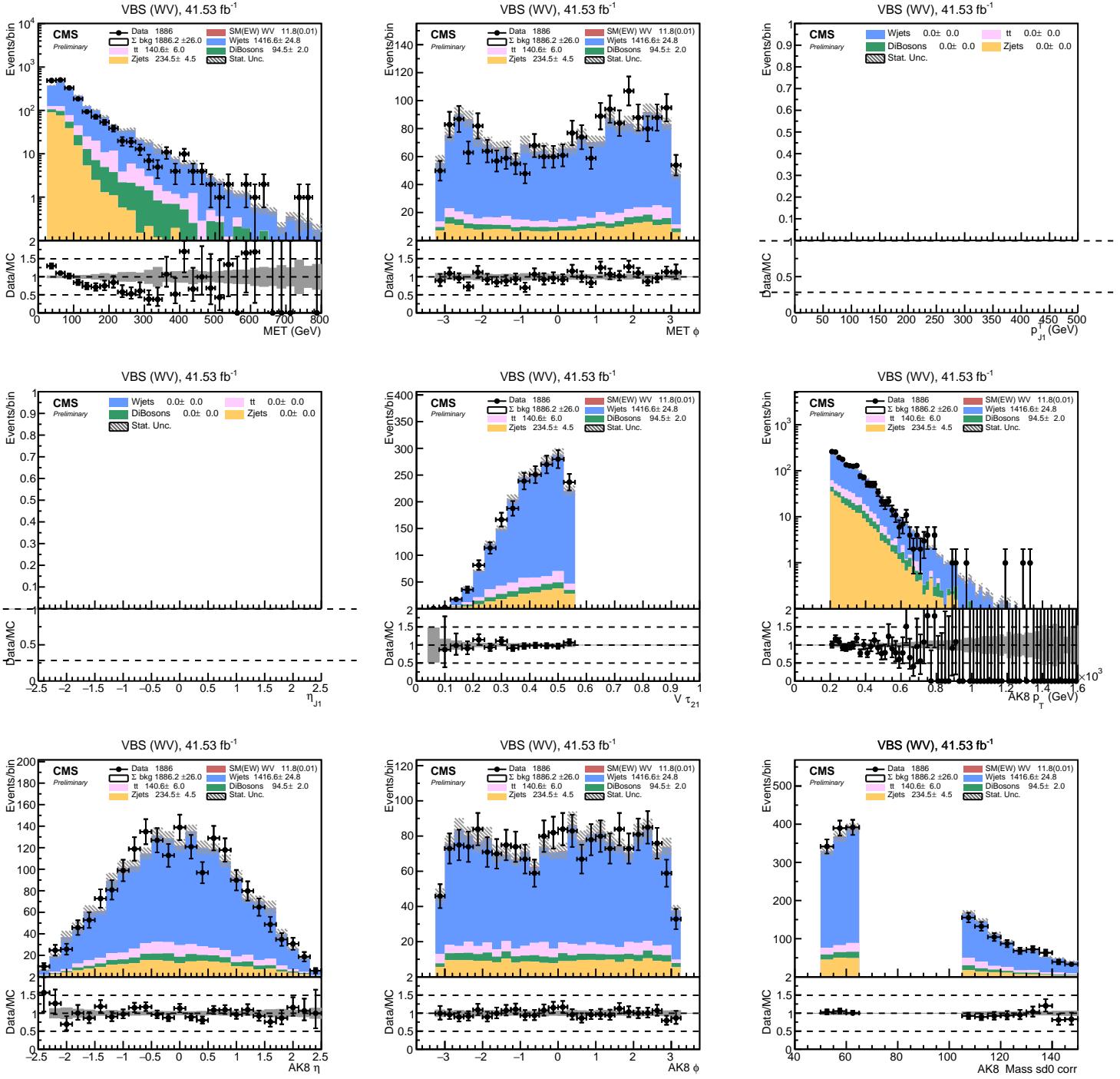


Figure 27: 2017 plot of c4 variables using cut: “Wjets\_CR”

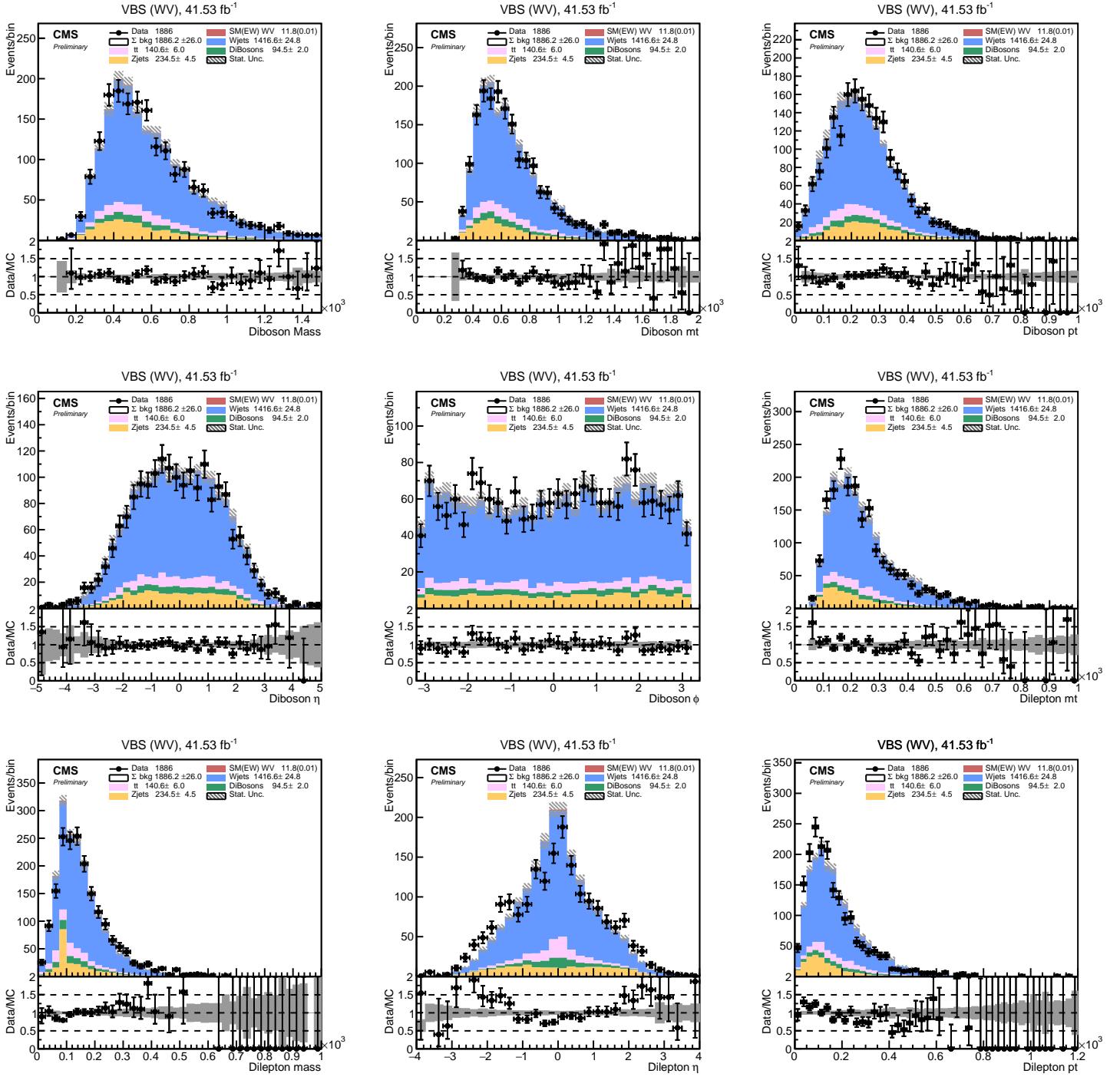


Figure 28: 2018 plot of c1 variables using cut: “Full\_SR”

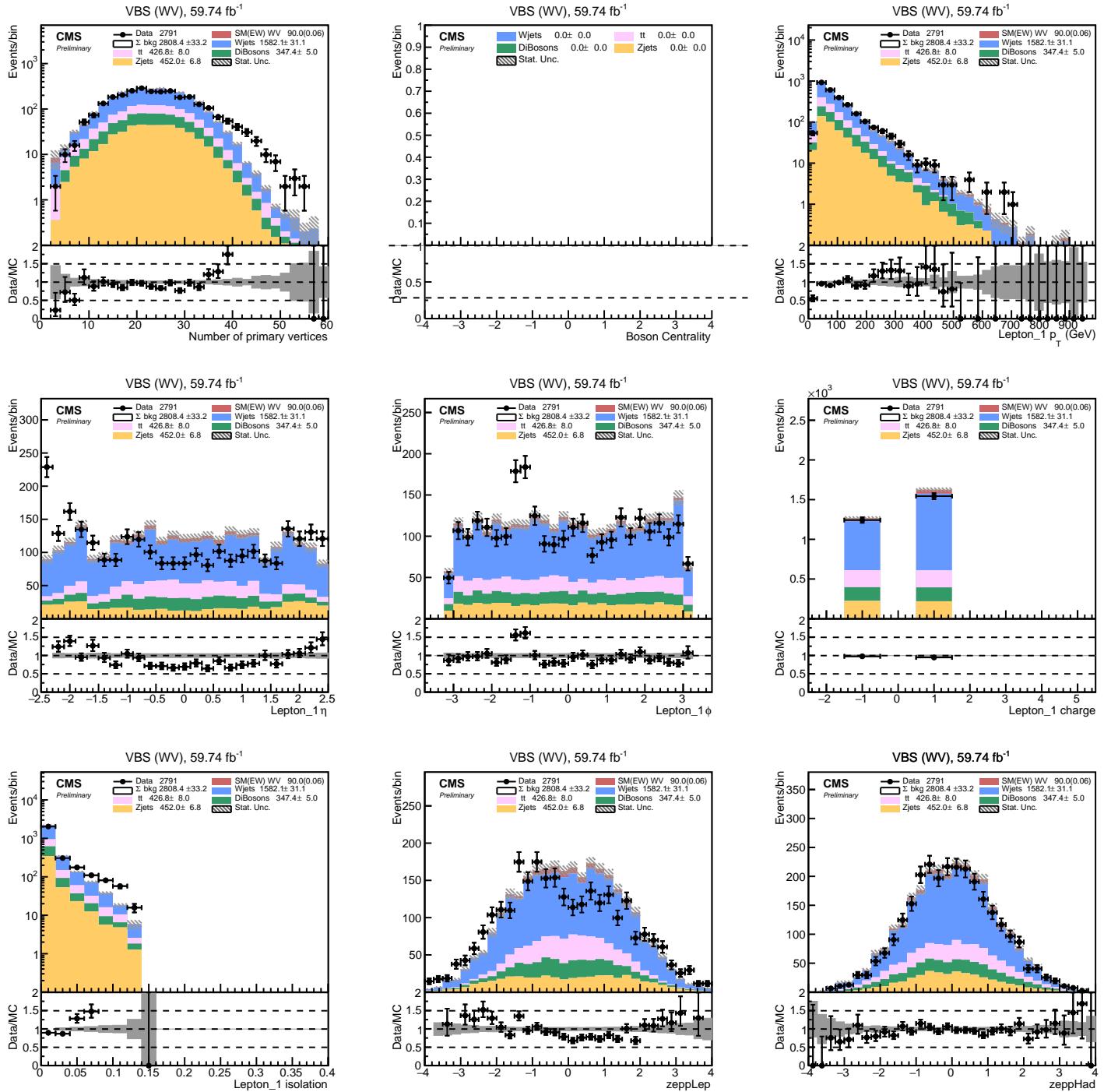


Figure 29: 2018 plot of c2 variables using cut: “Full\_SR”

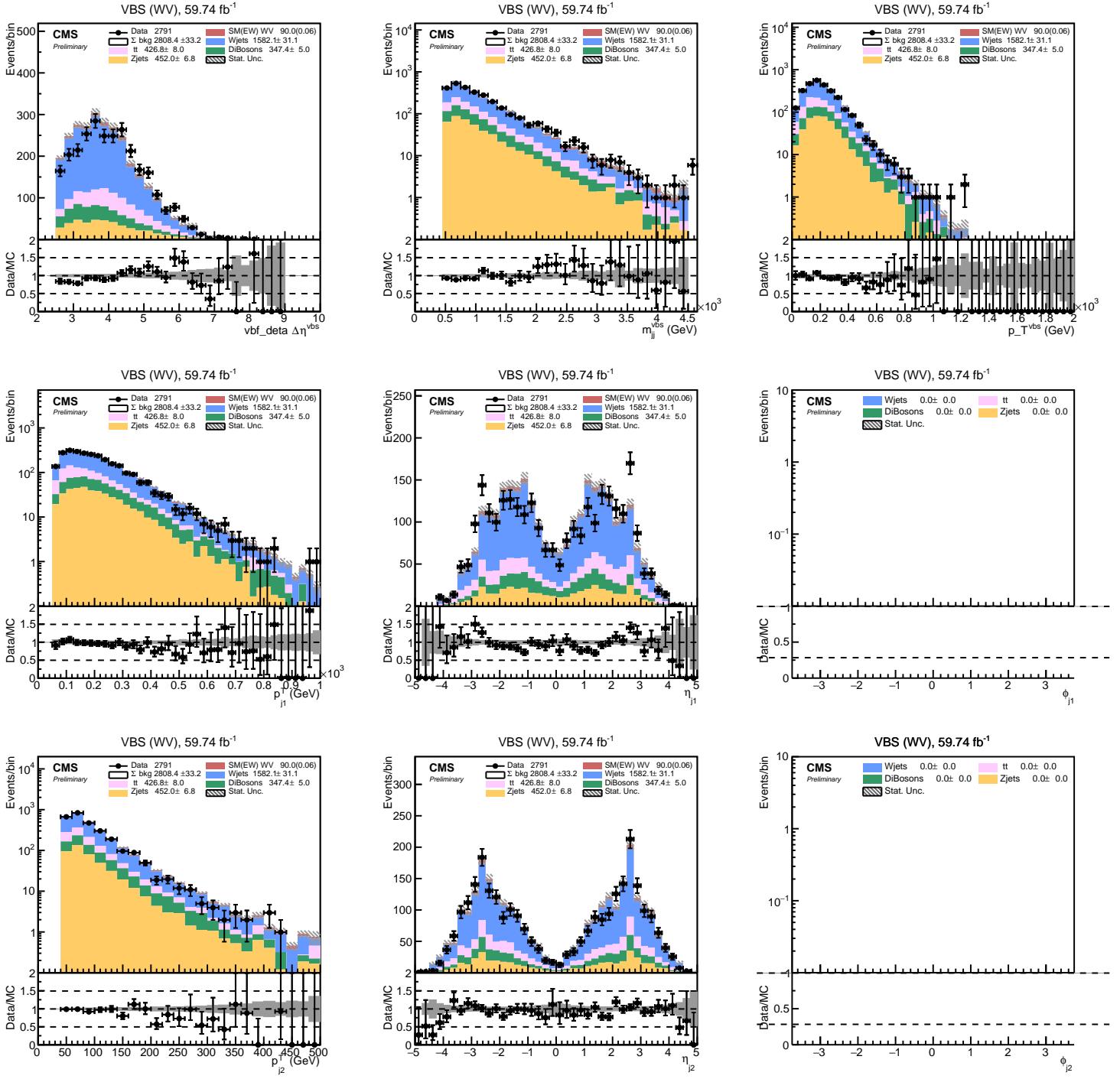


Figure 30: 2018 plot of c3 variables using cut: “Full\_SR”

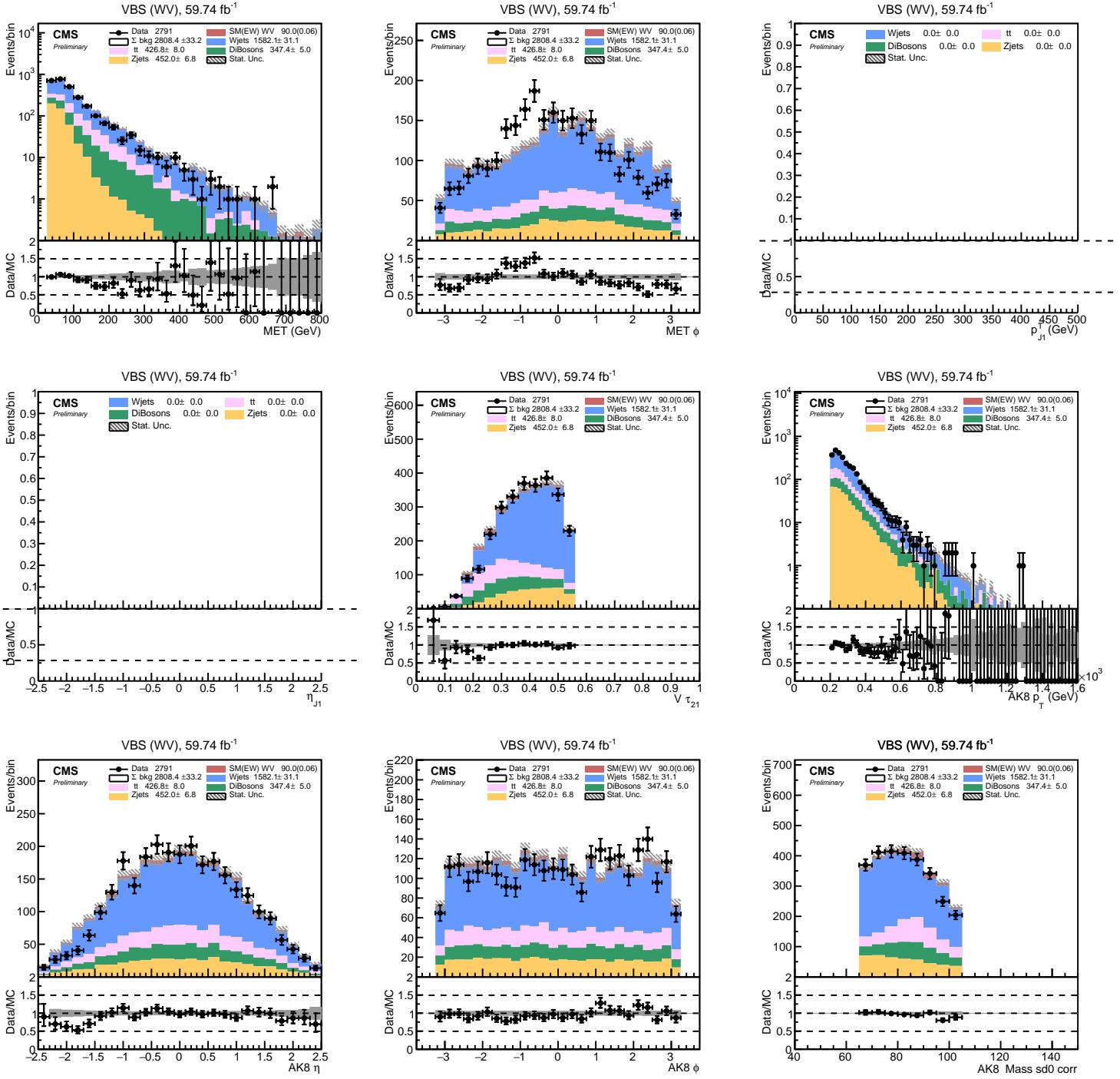
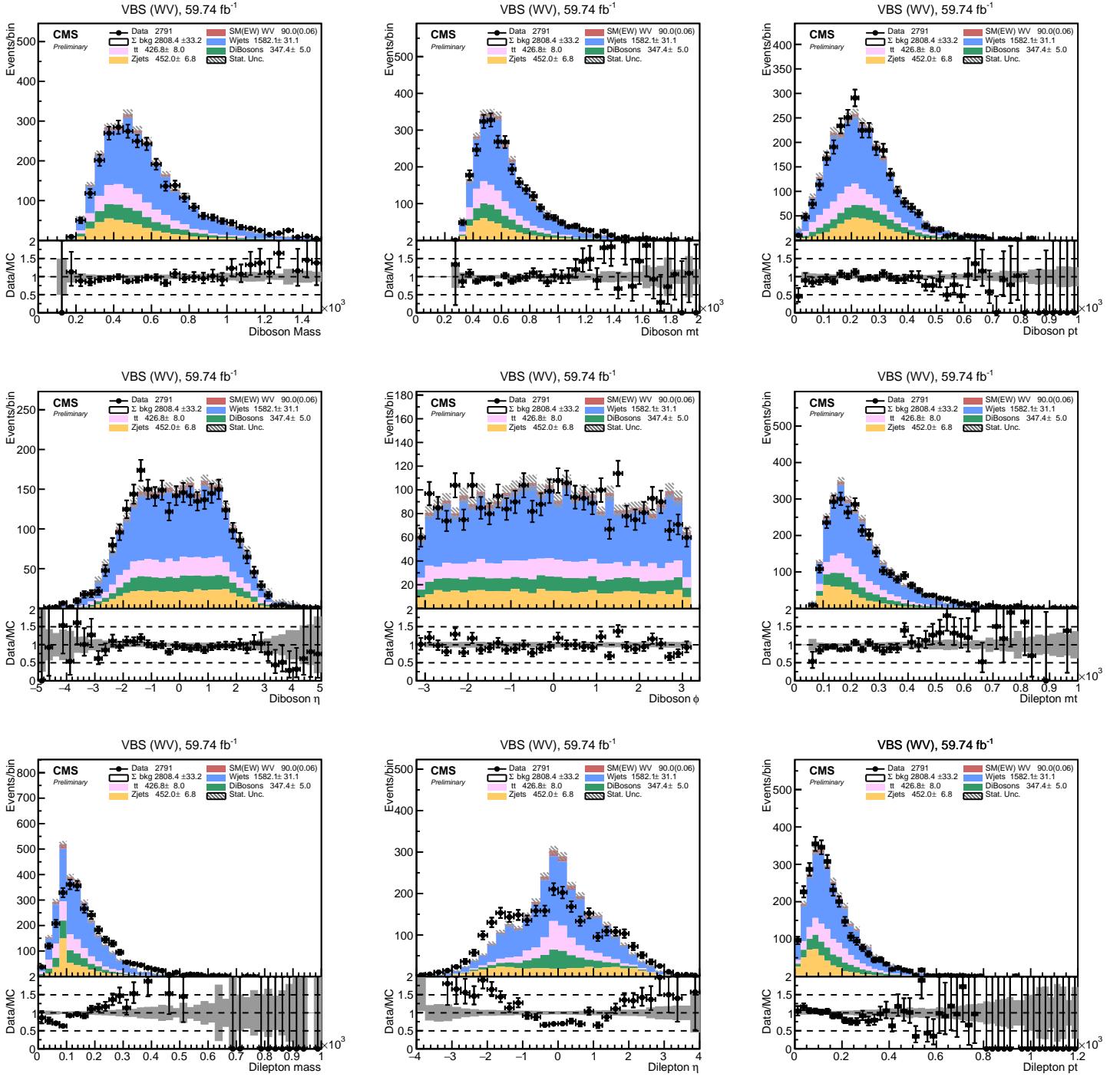


Figure 31: 2018 plot of c4 variables using cut: “Full\_SR”



# Top\_CR

Figure 32: 2018 plot of c1 variables using cut: “Top\_CR”

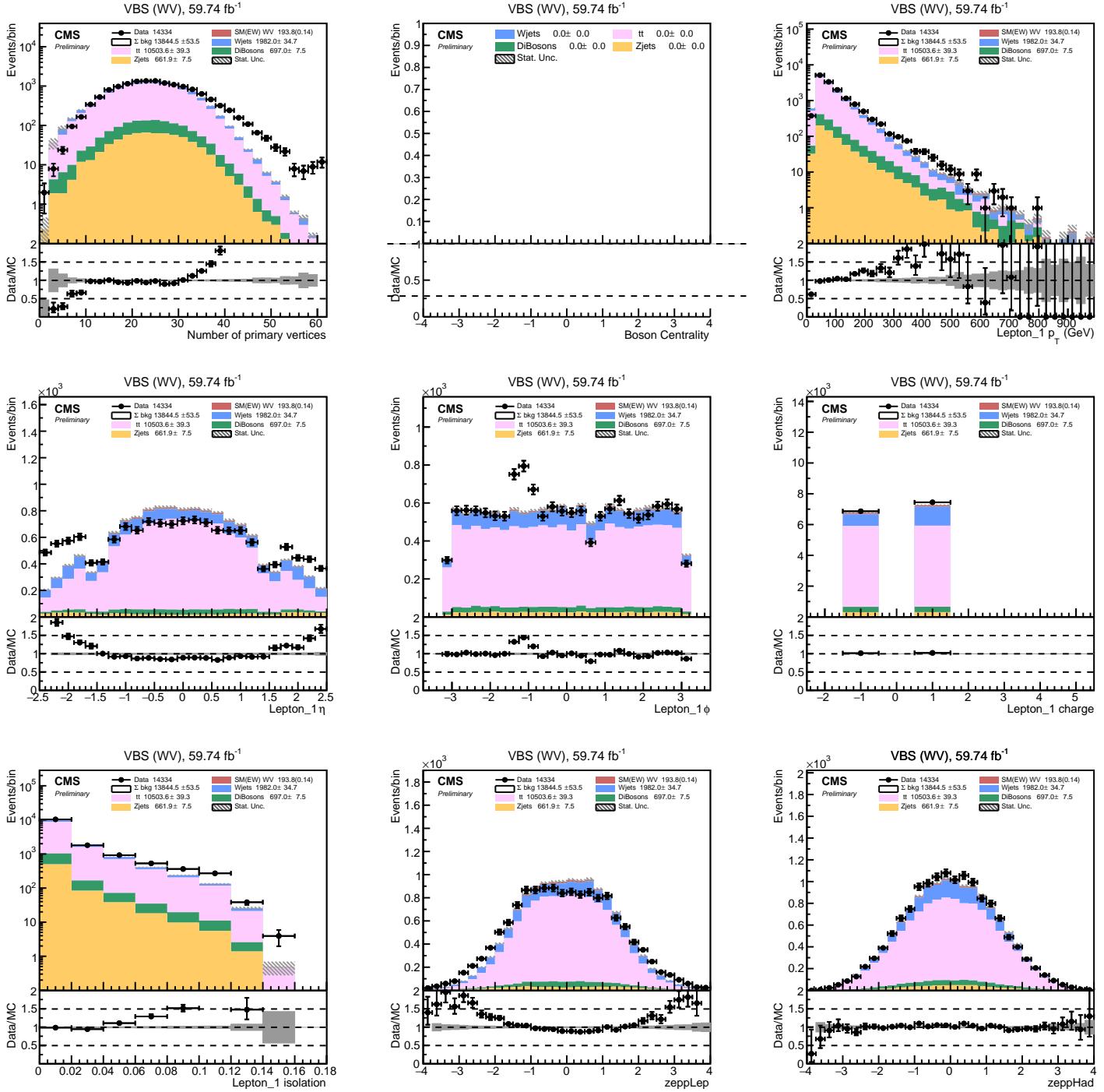


Figure 33: 2018 plot of c2 variables using cut: “Top\_CR”

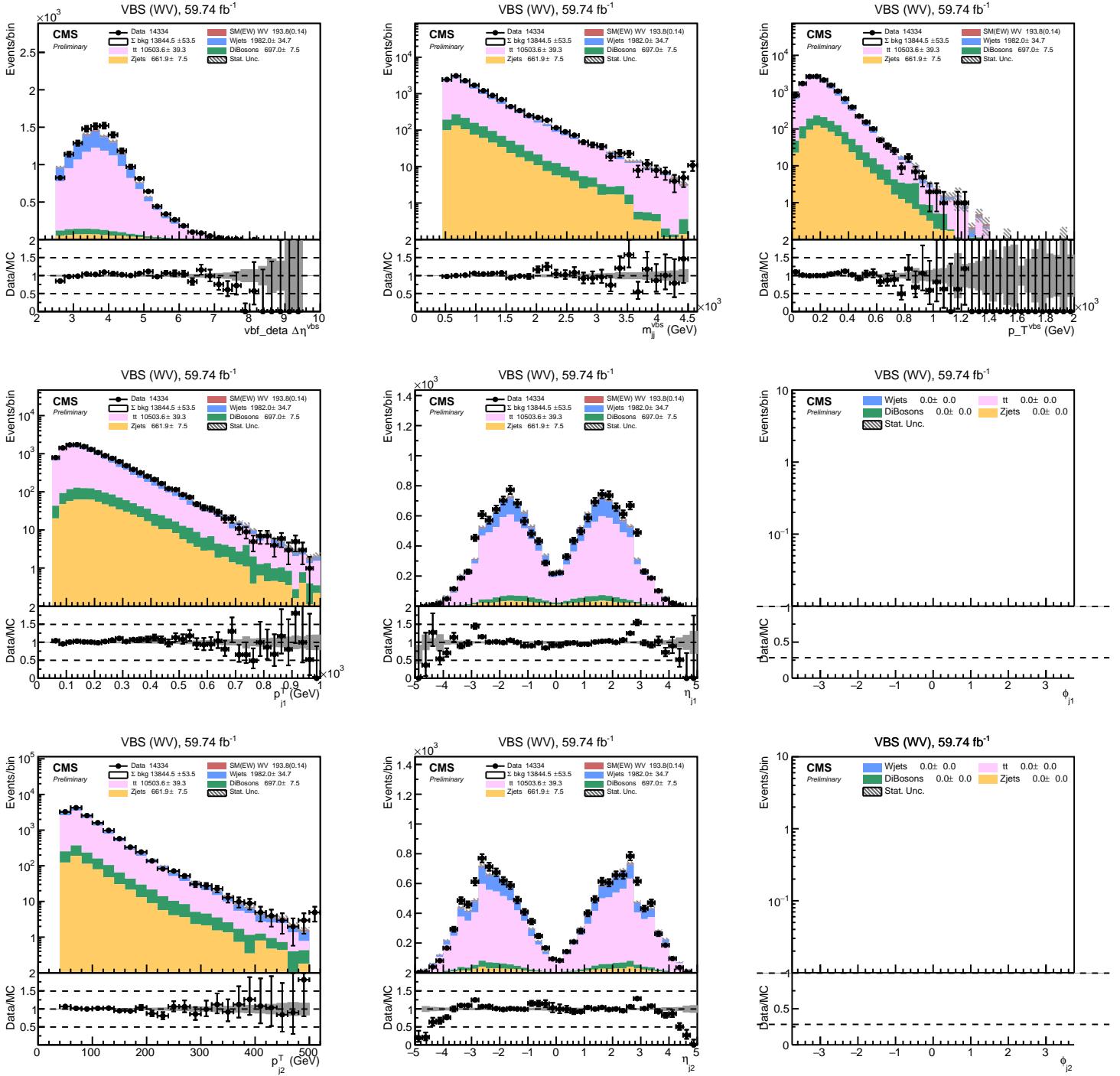


Figure 34: 2018 plot of c3 variables using cut: “Top\_CR”

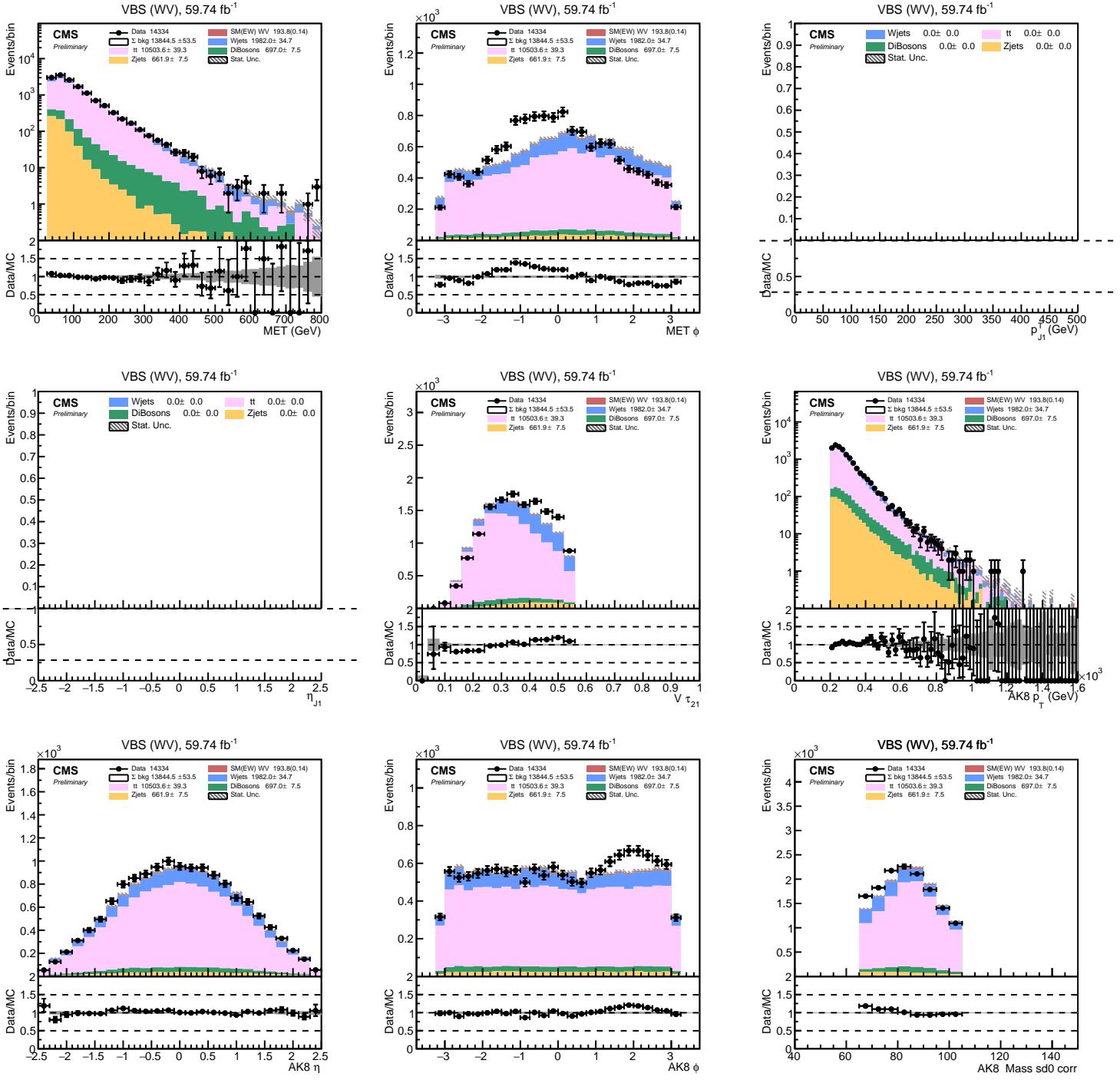
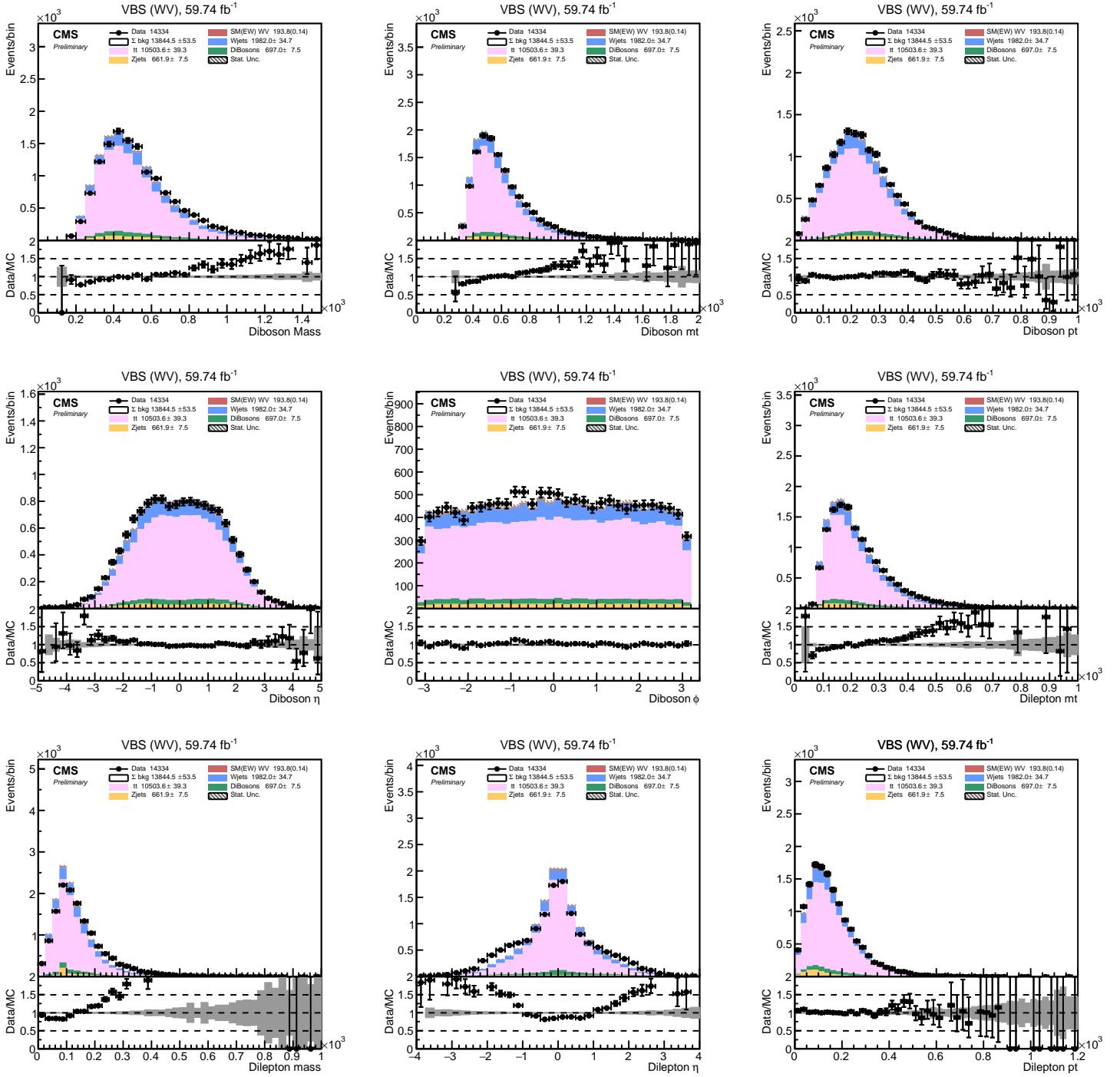


Figure 35: 2018 plot of c4 variables using cut: “Top\_CR”



## Wjets\_CR

Figure 36: 2018 plot of c1 variables using cut: “Wjets\_CR”

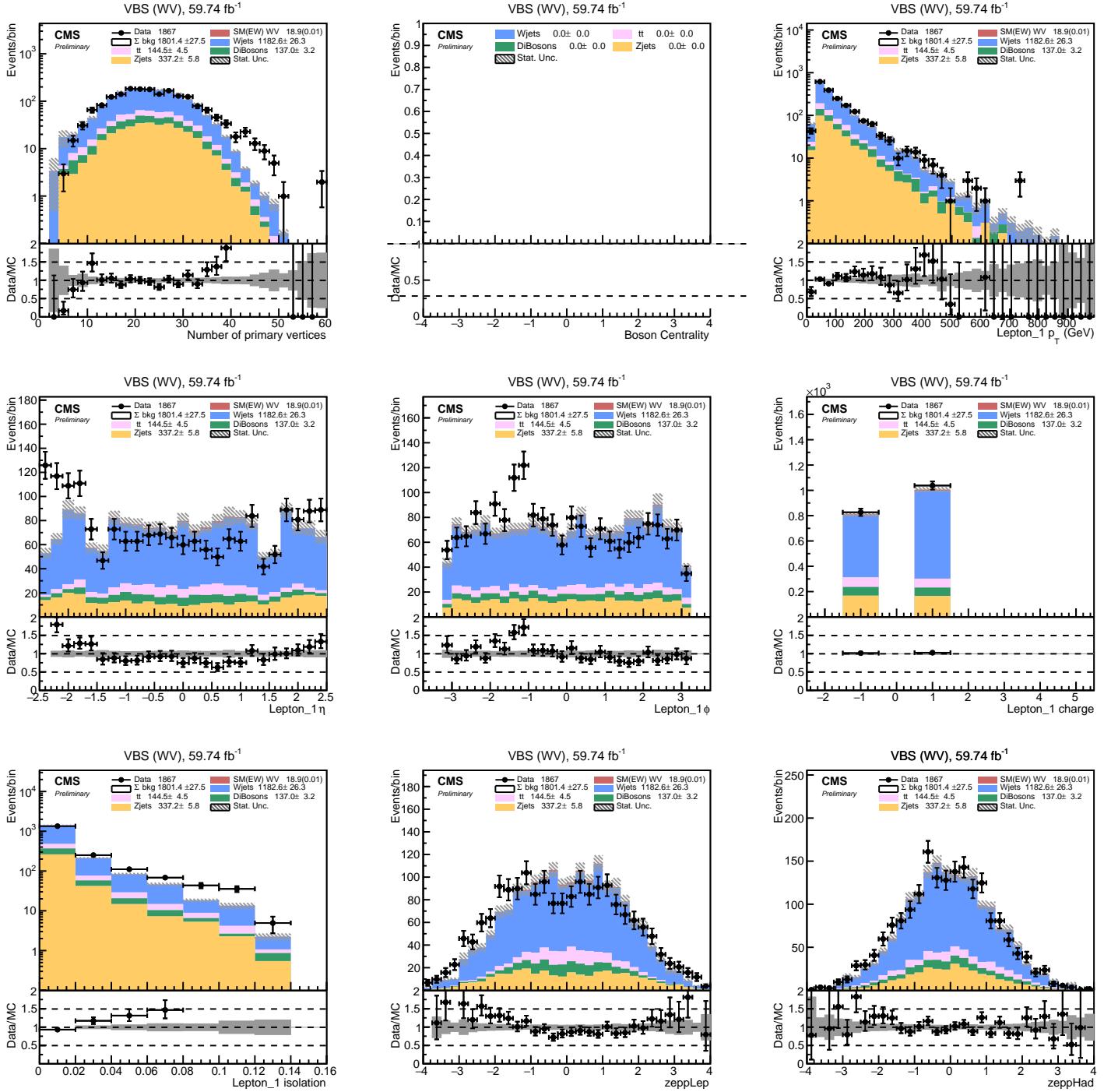


Figure 37: 2018 plot of c2 variables using cut: “Wjets\_CR”

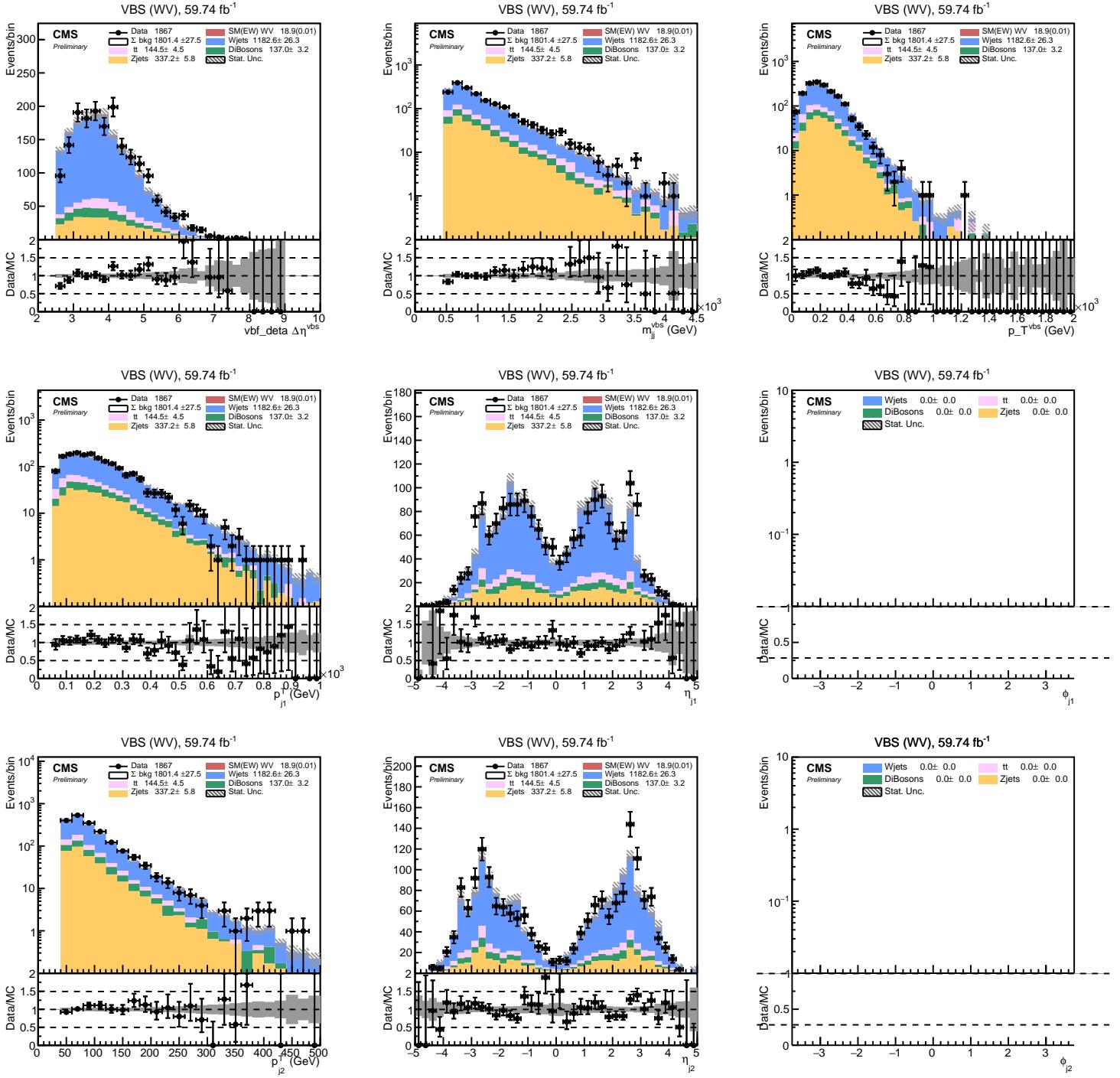


Figure 38: 2018 plot of c3 variables using cut: “Wjets\_CR”

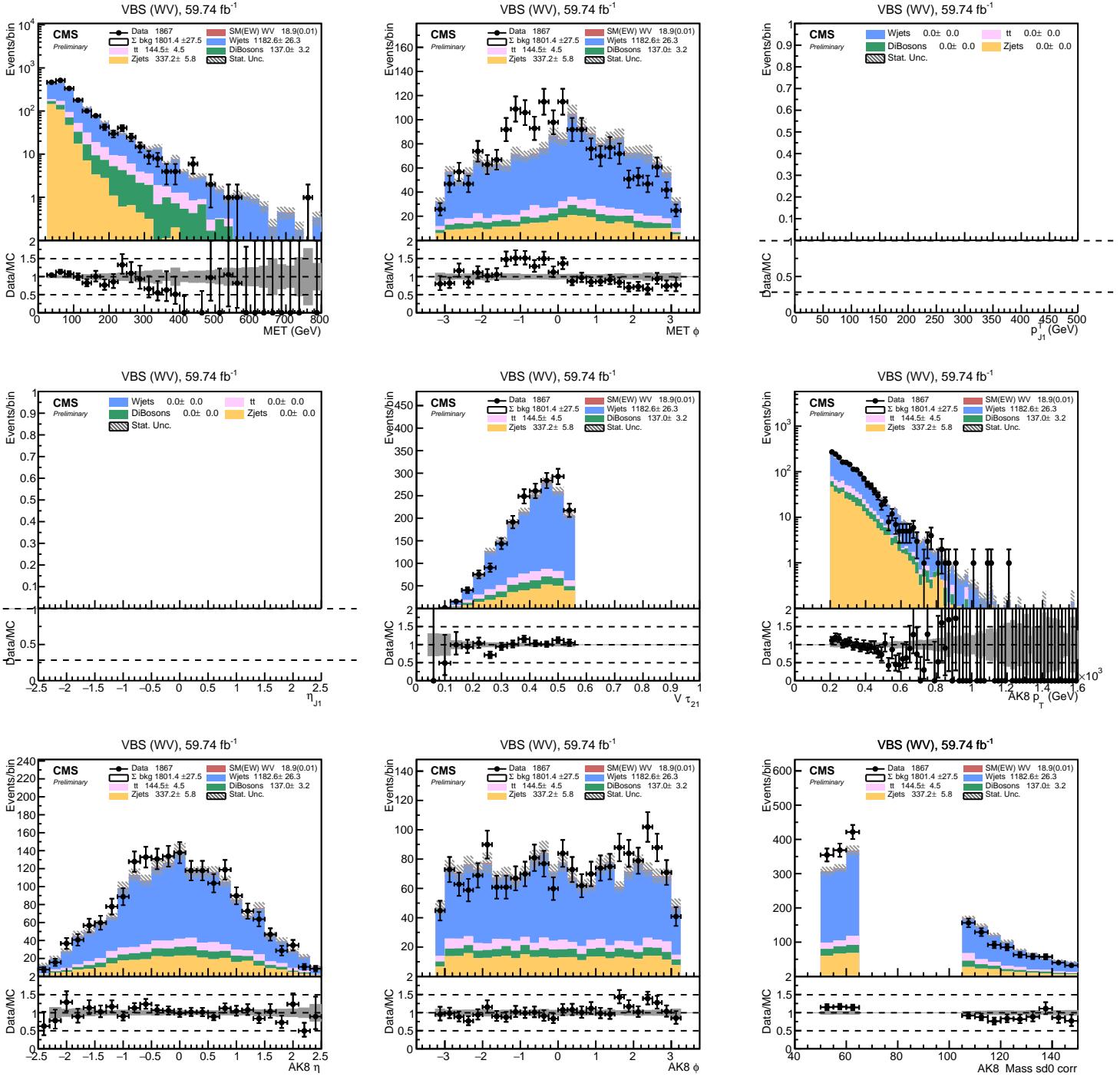
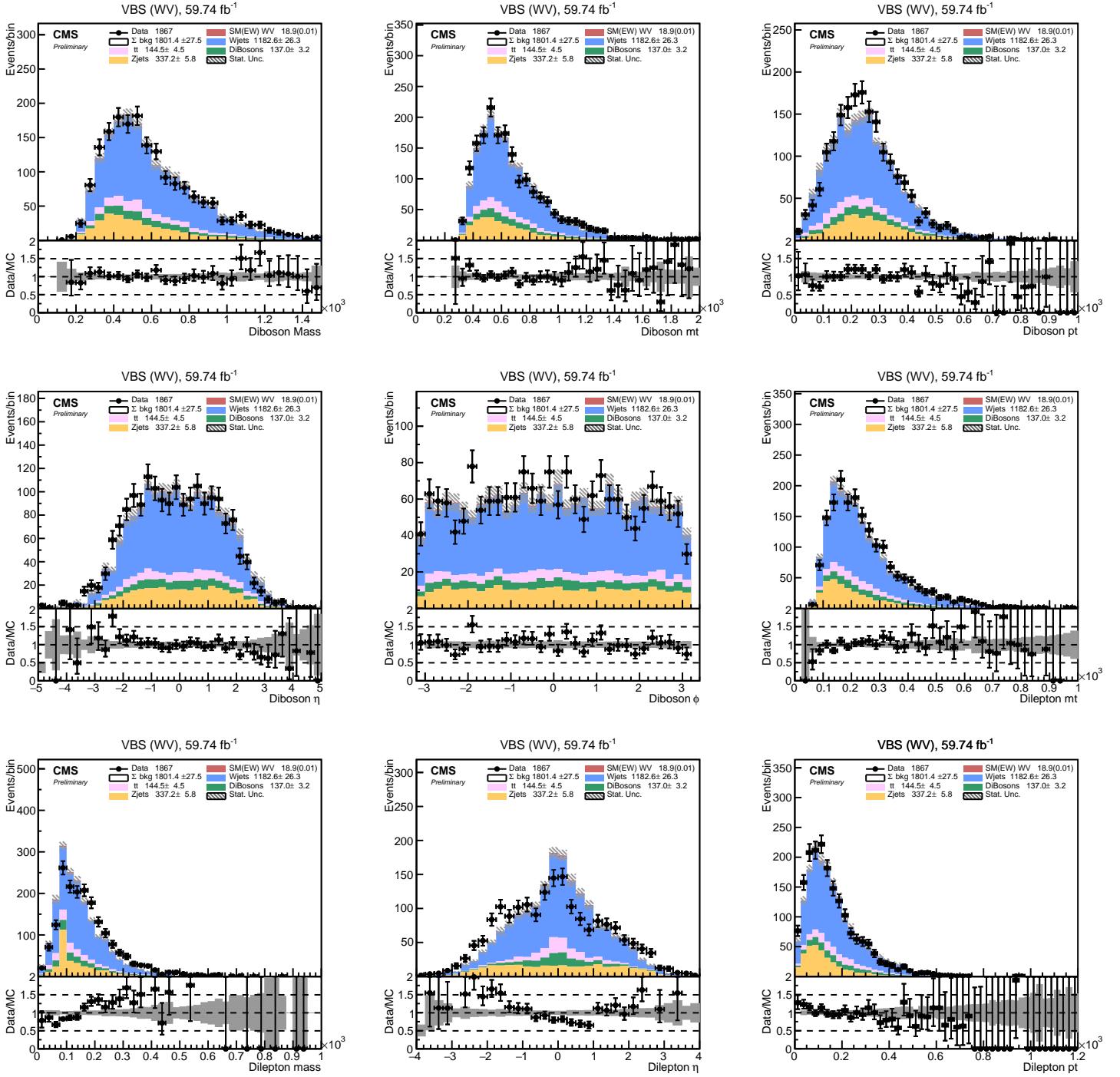


Figure 39: 2018 plot of c4 variables using cut: “Wjets\_CR”



## Top\_Test\_CR

Figure 40: 2018 plot of c1 variables using cut: “Top\_Test\_CR”

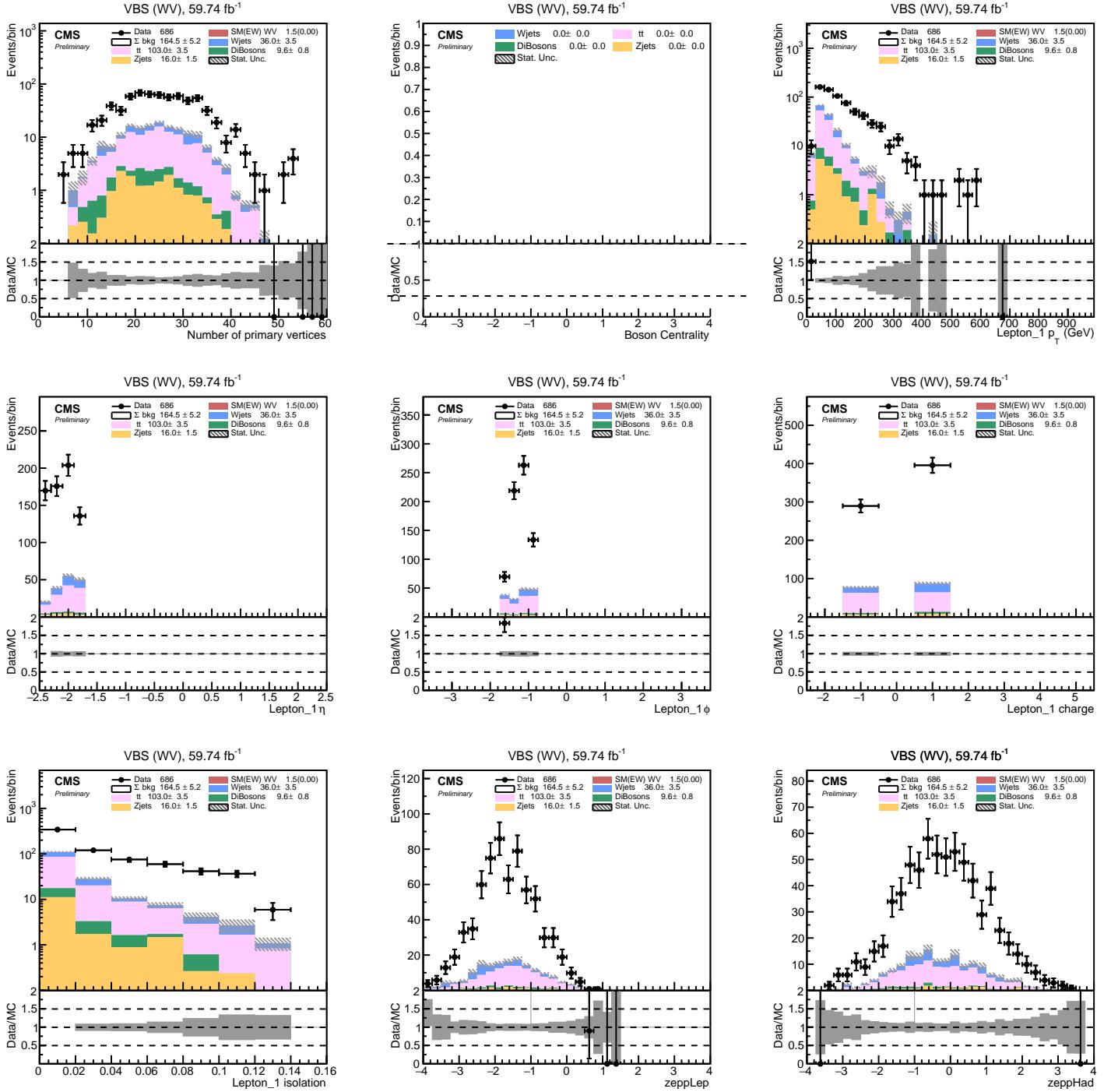


Figure 41: 2018 plot of c2 variables using cut: “Top\_Test\_CR”

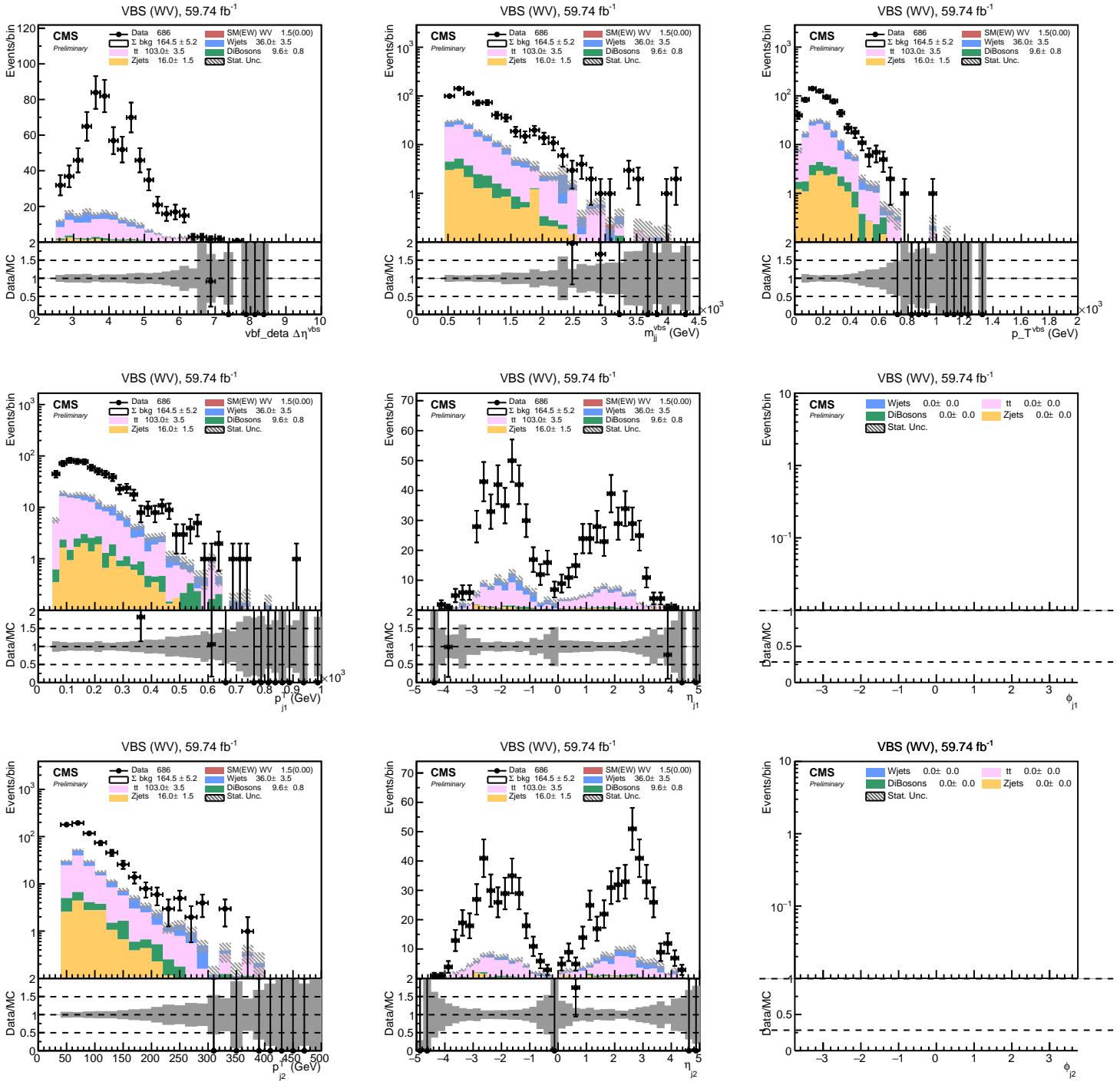


Figure 42: 2018 plot of c3 variables using cut: “Top\_Test\_CR”

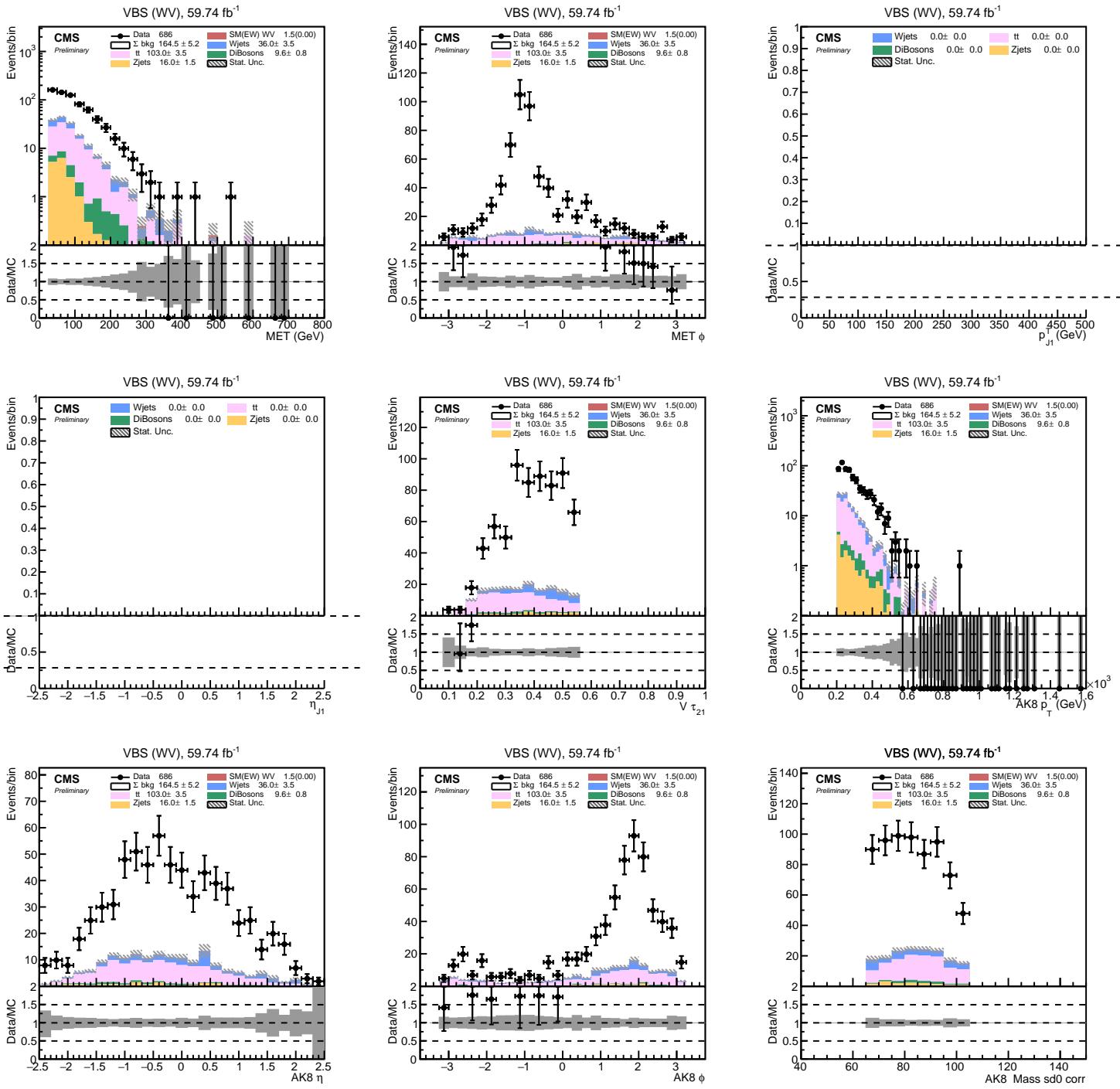
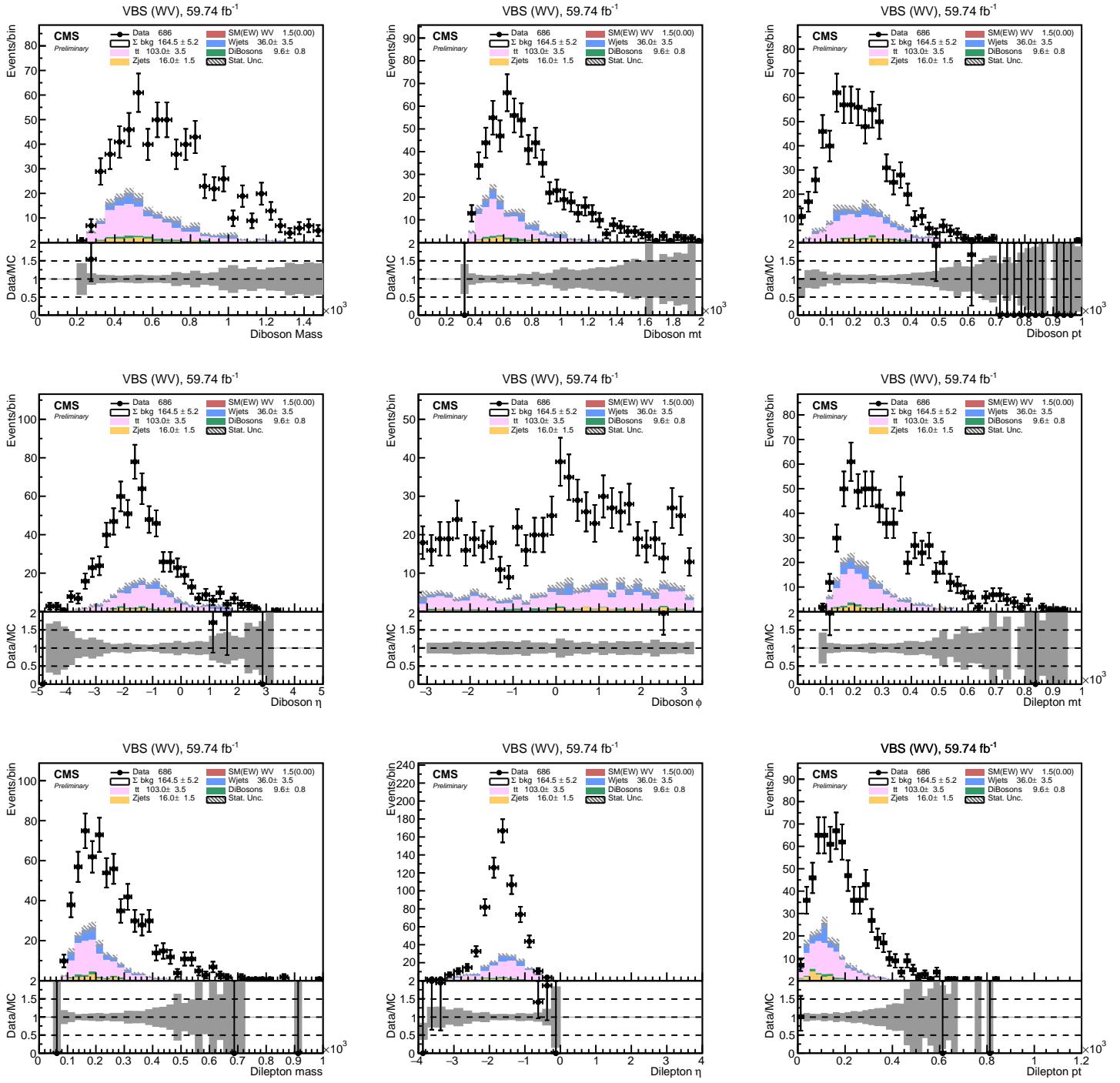


Figure 43: 2018 plot of c4 variables using cut: “Top\_Test\_CR”



# WV\_SR\_HinPV

Figure 44: 2018 plot of c1 variables using cut: “WV\_SR\_HinPV”

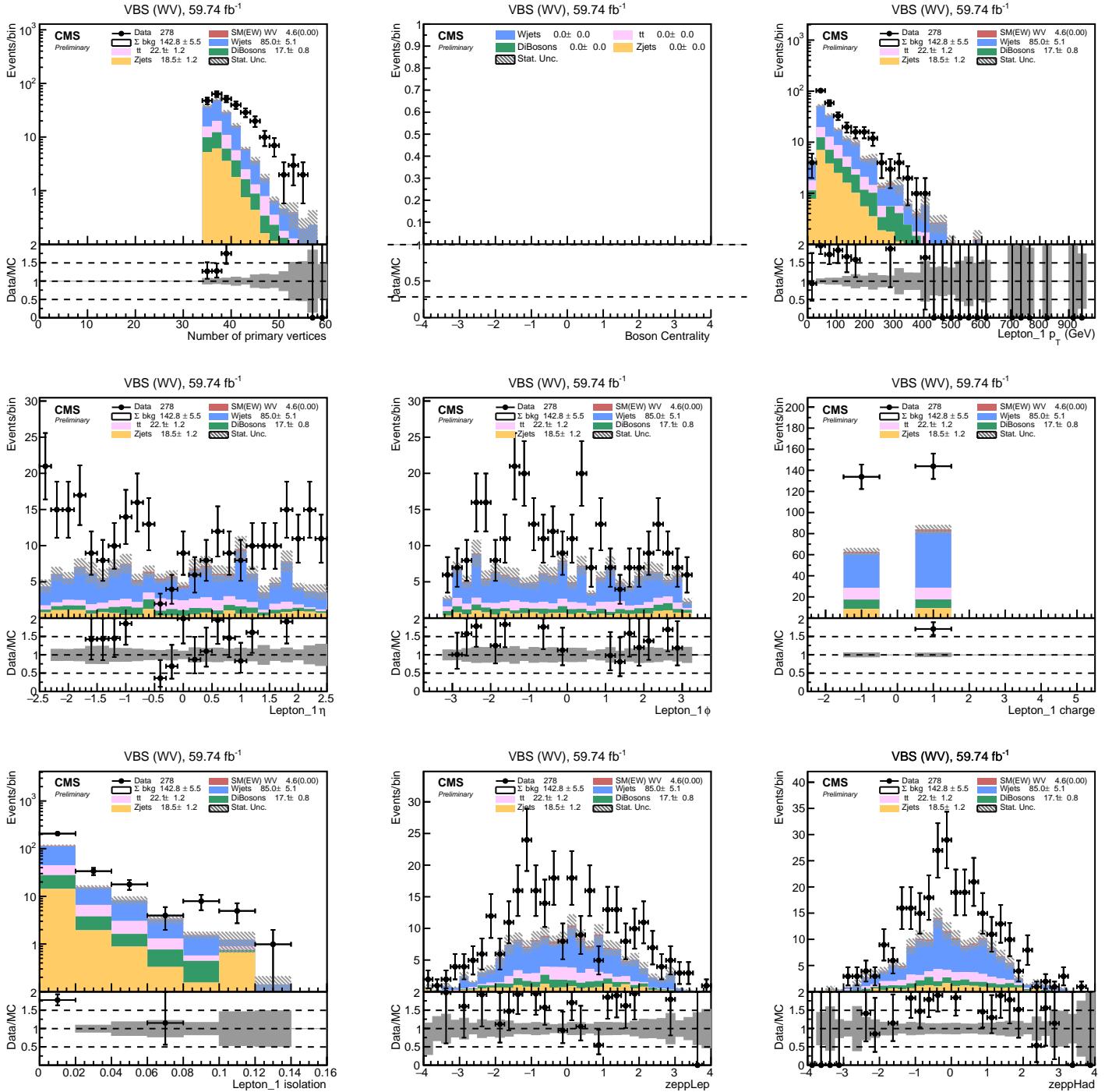


Figure 45: 2018 plot of c2 variables using cut: “WV\_SR\_HinPV”

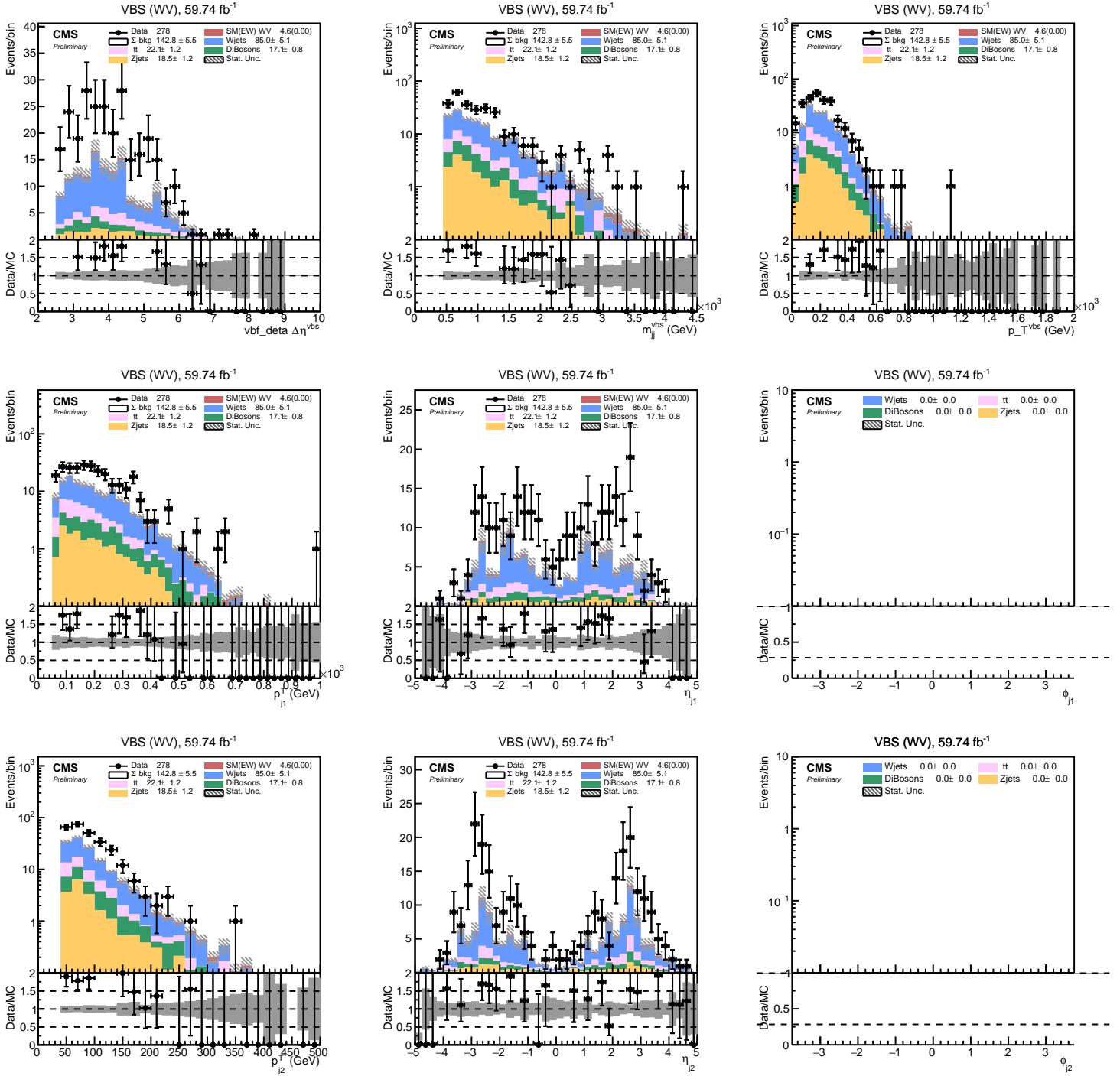


Figure 46: 2018 plot of c3 variables using cut: “WV\_SR\_HinPV”

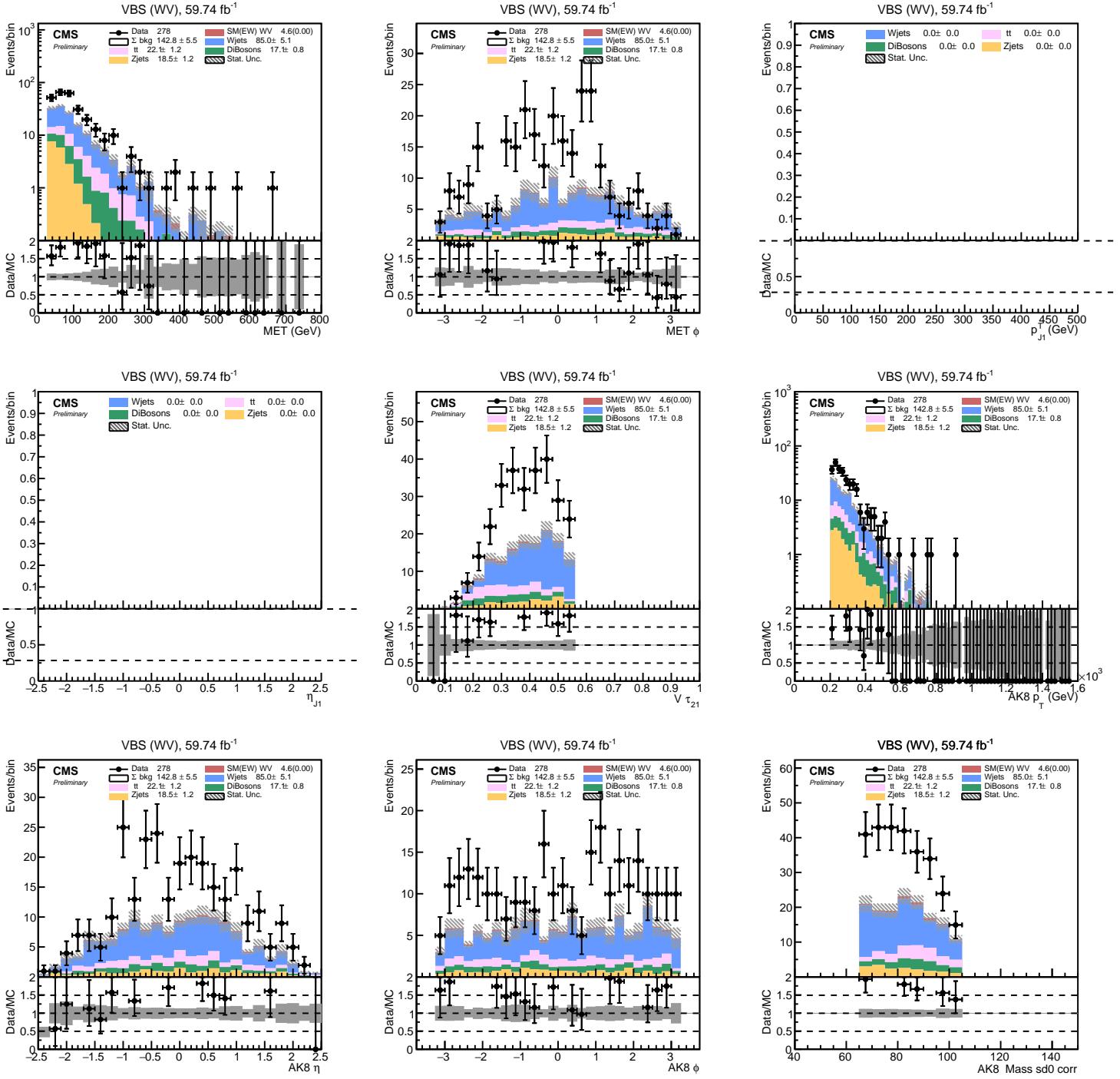
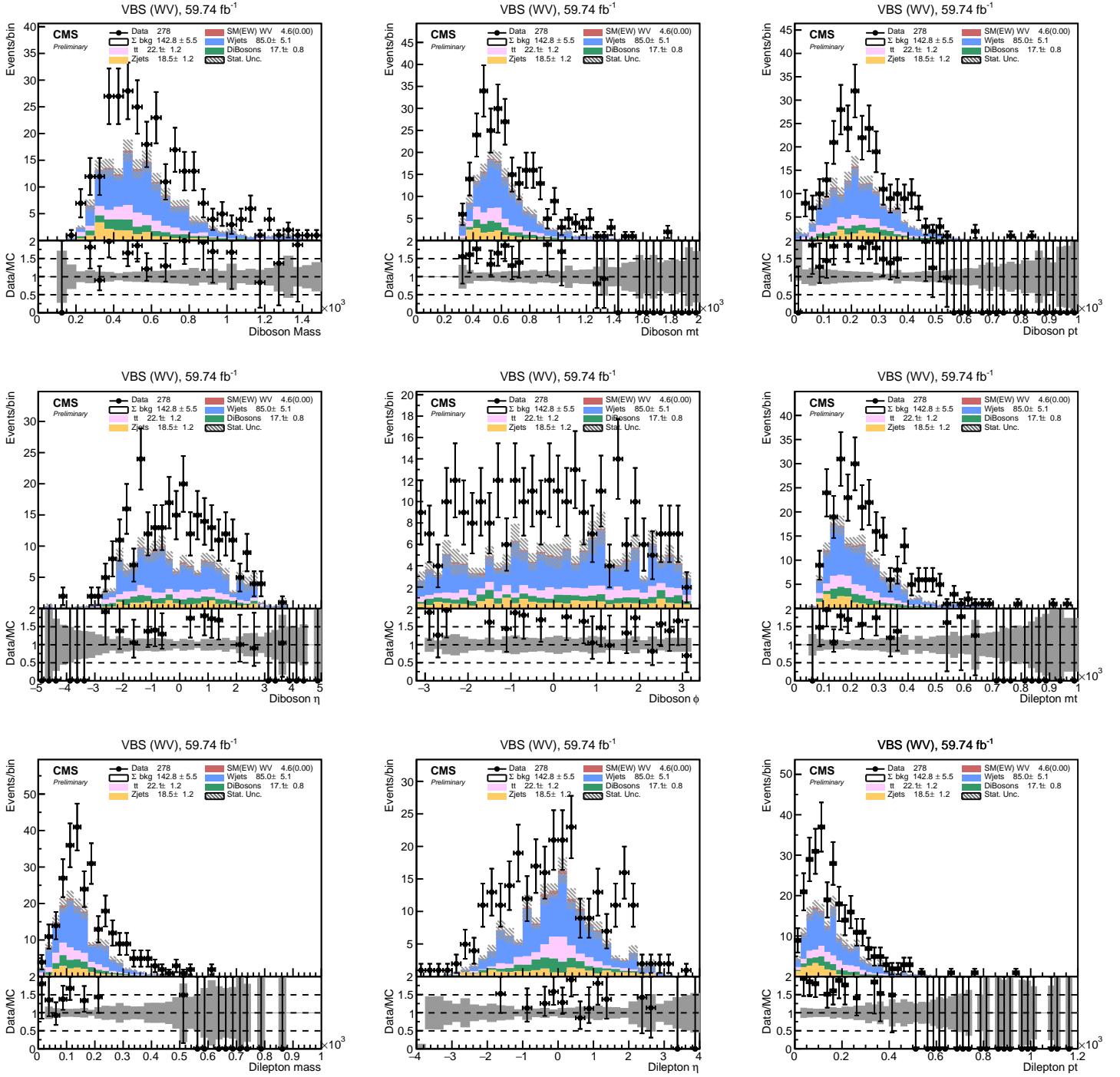


Figure 47: 2018 plot of c4 variables using cut: “WV\_SR\_HinPV”



## WV\_SR\_Test

Figure 48: 2018 plot of c1 variables using cut: “WV\_SR\_Test”

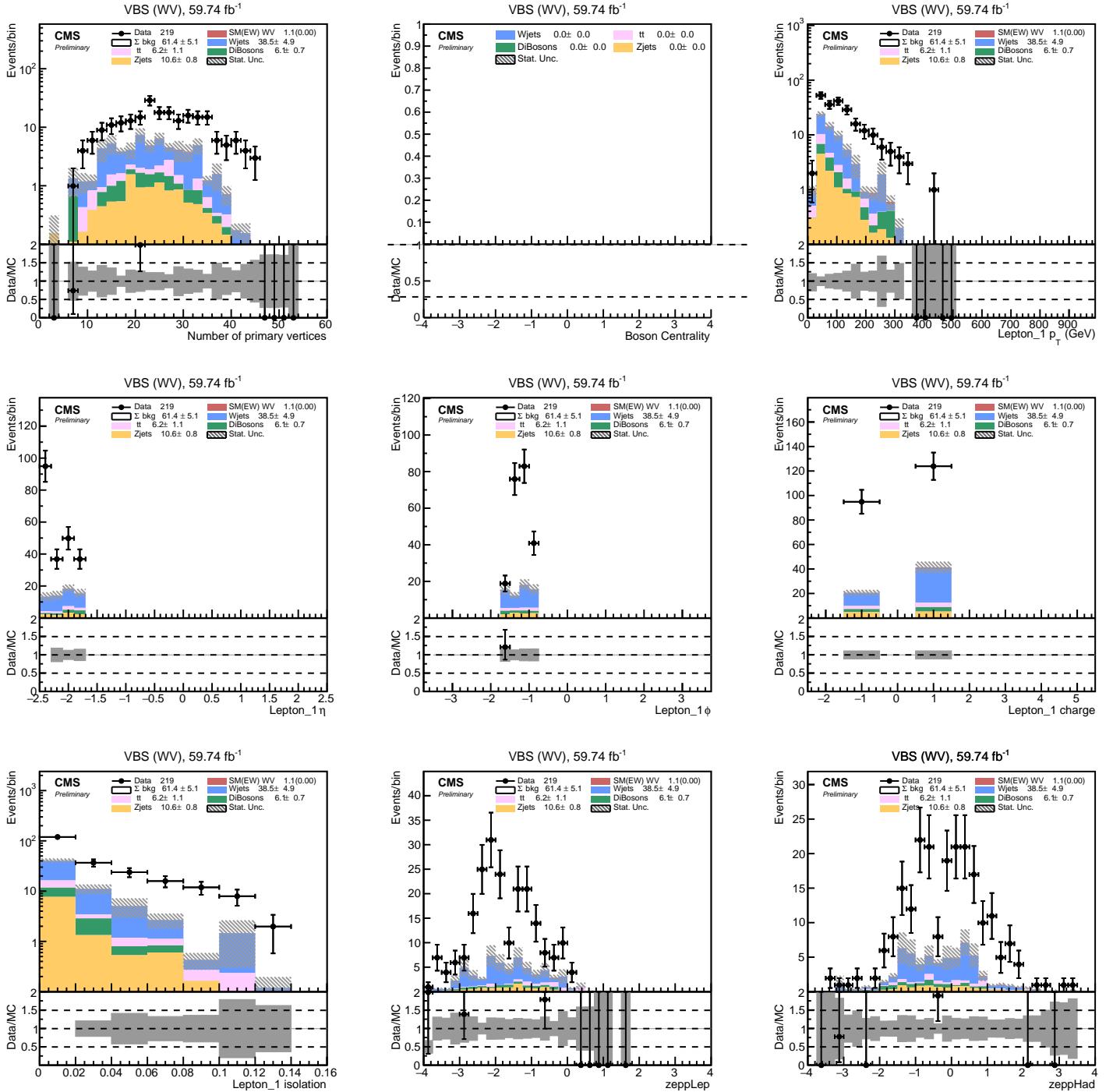


Figure 49: 2018 plot of c2 variables using cut: “WV\_SR\_Test”

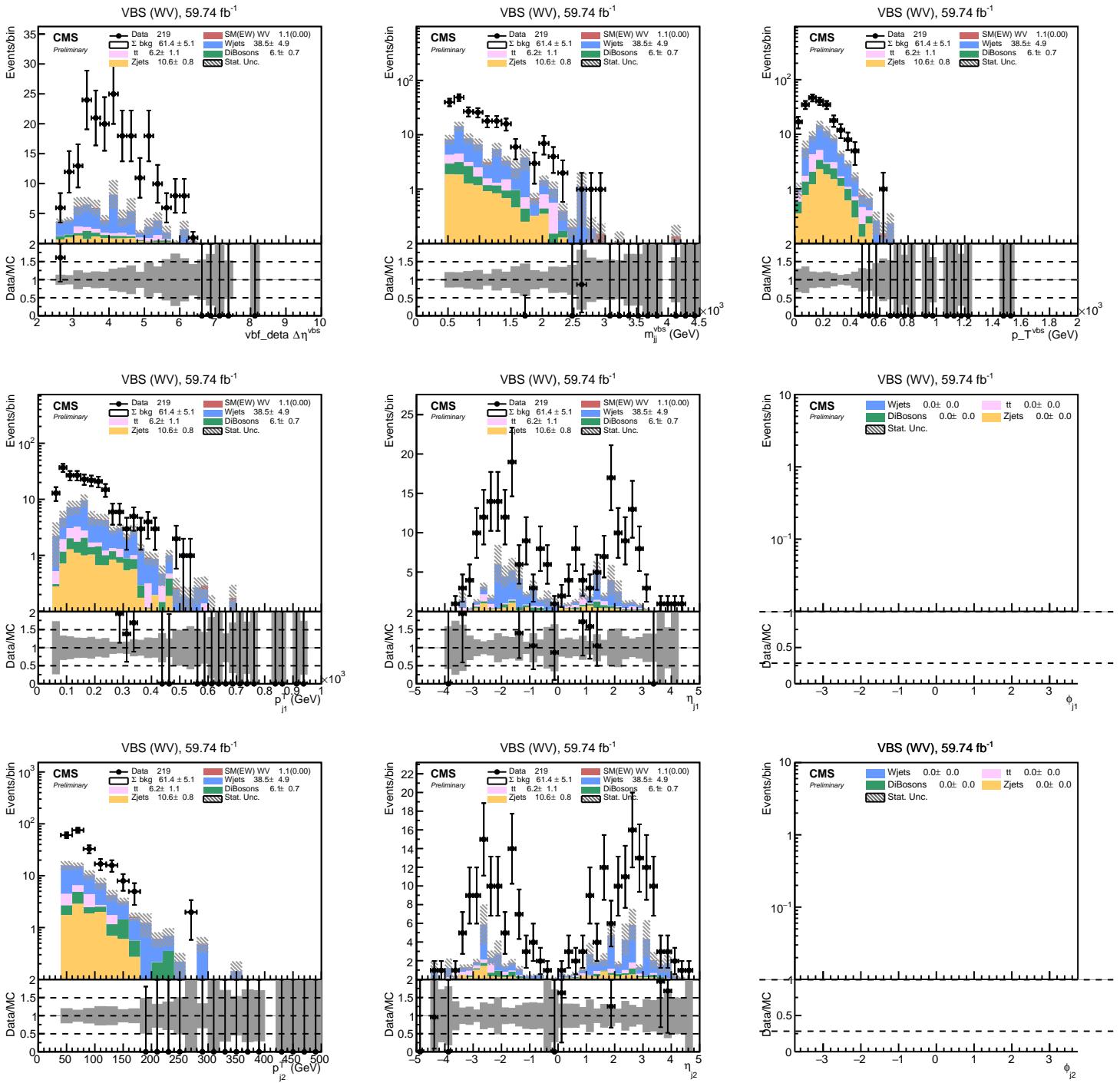


Figure 50: 2018 plot of c3 variables using cut: “WV\_SR\_Test”

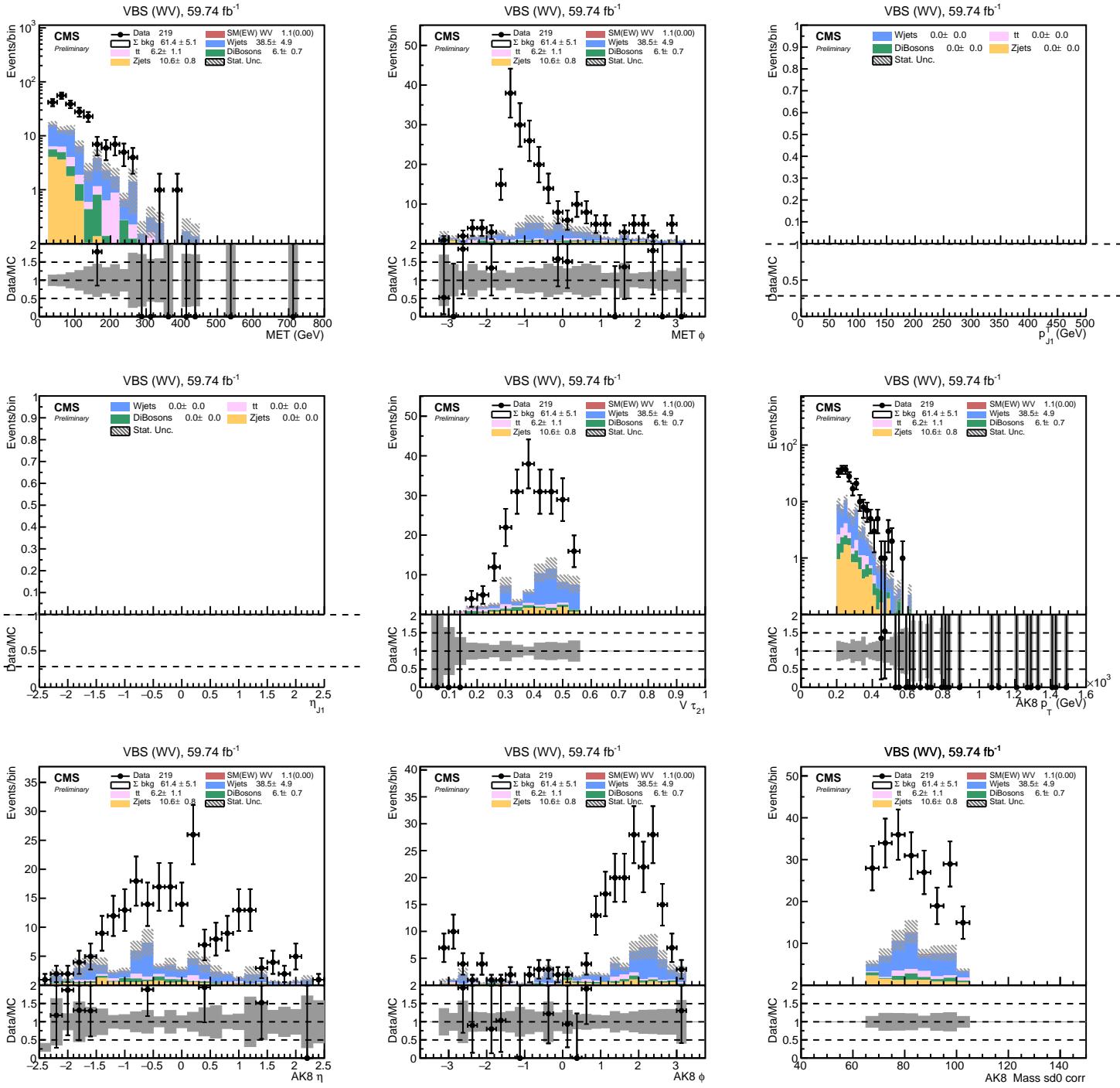
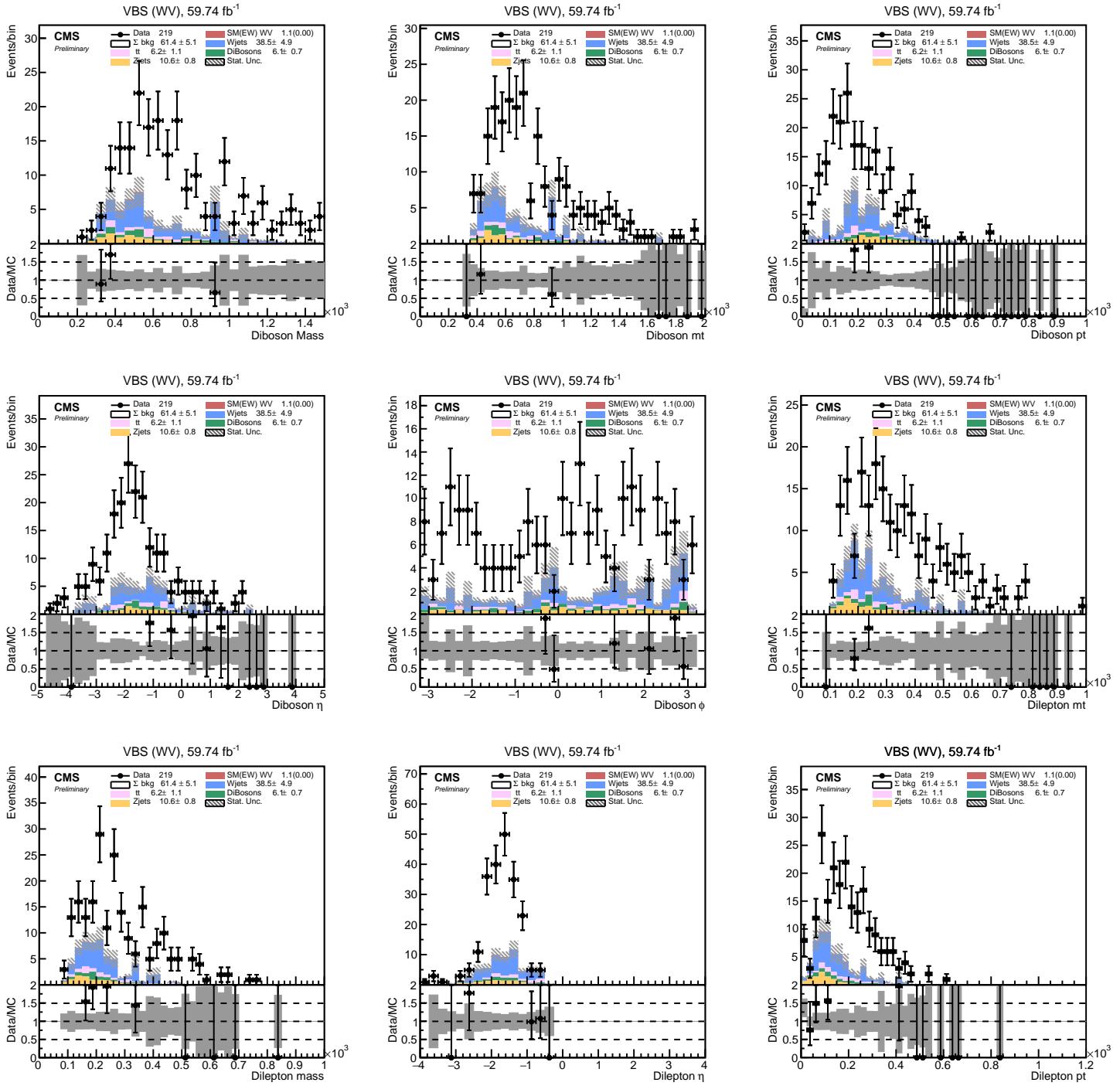


Figure 51: 2018 plot of c4 variables using cut: “WV\_SR\_Test”



## Wjets\_Elec\_CR

Figure 52: 2018 plot of c1 variables using cut: “Wjets\_Elec\_CR”

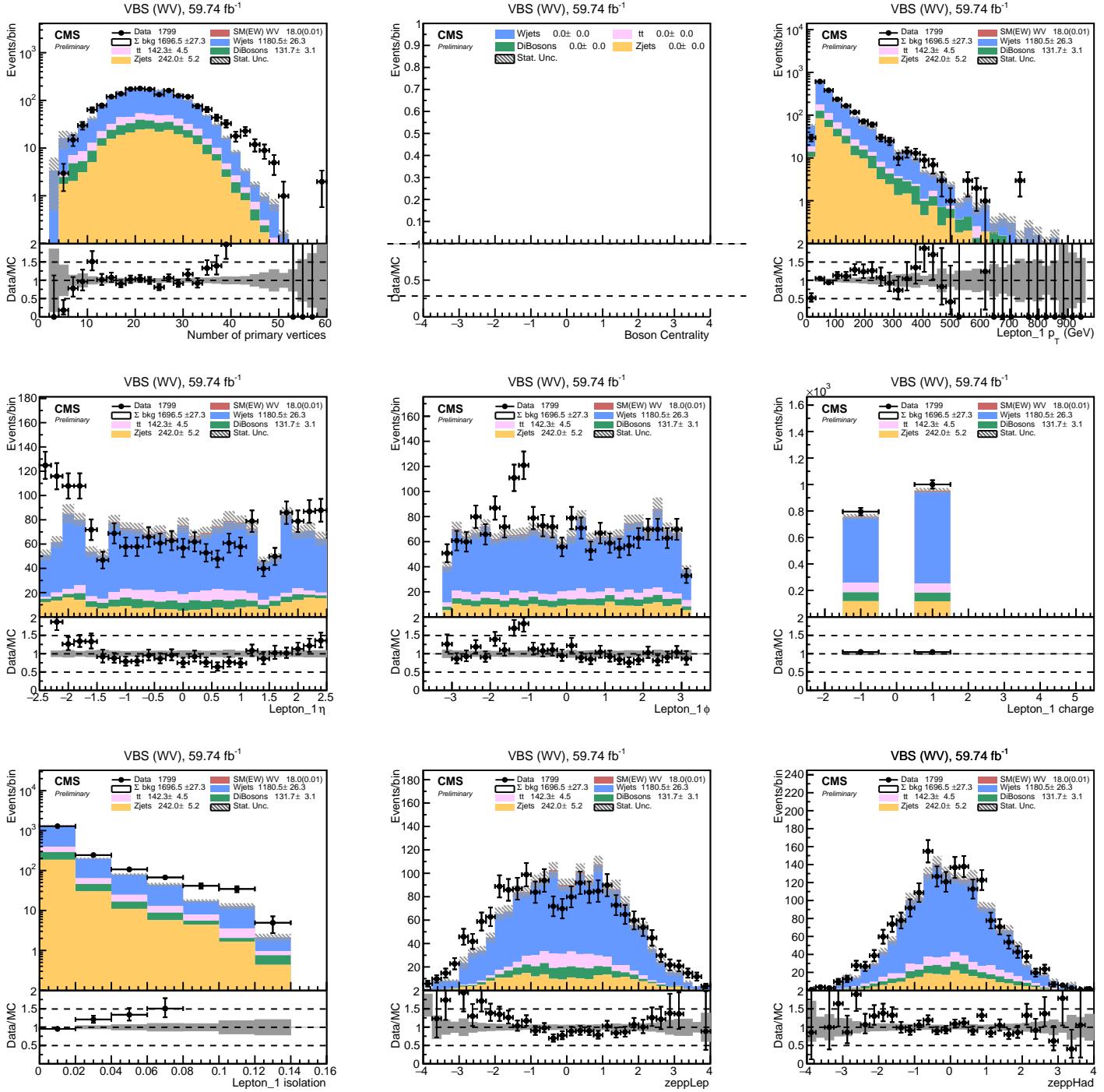


Figure 53: 2018 plot of c2 variables using cut: “Wjets\_Elec\_CR”

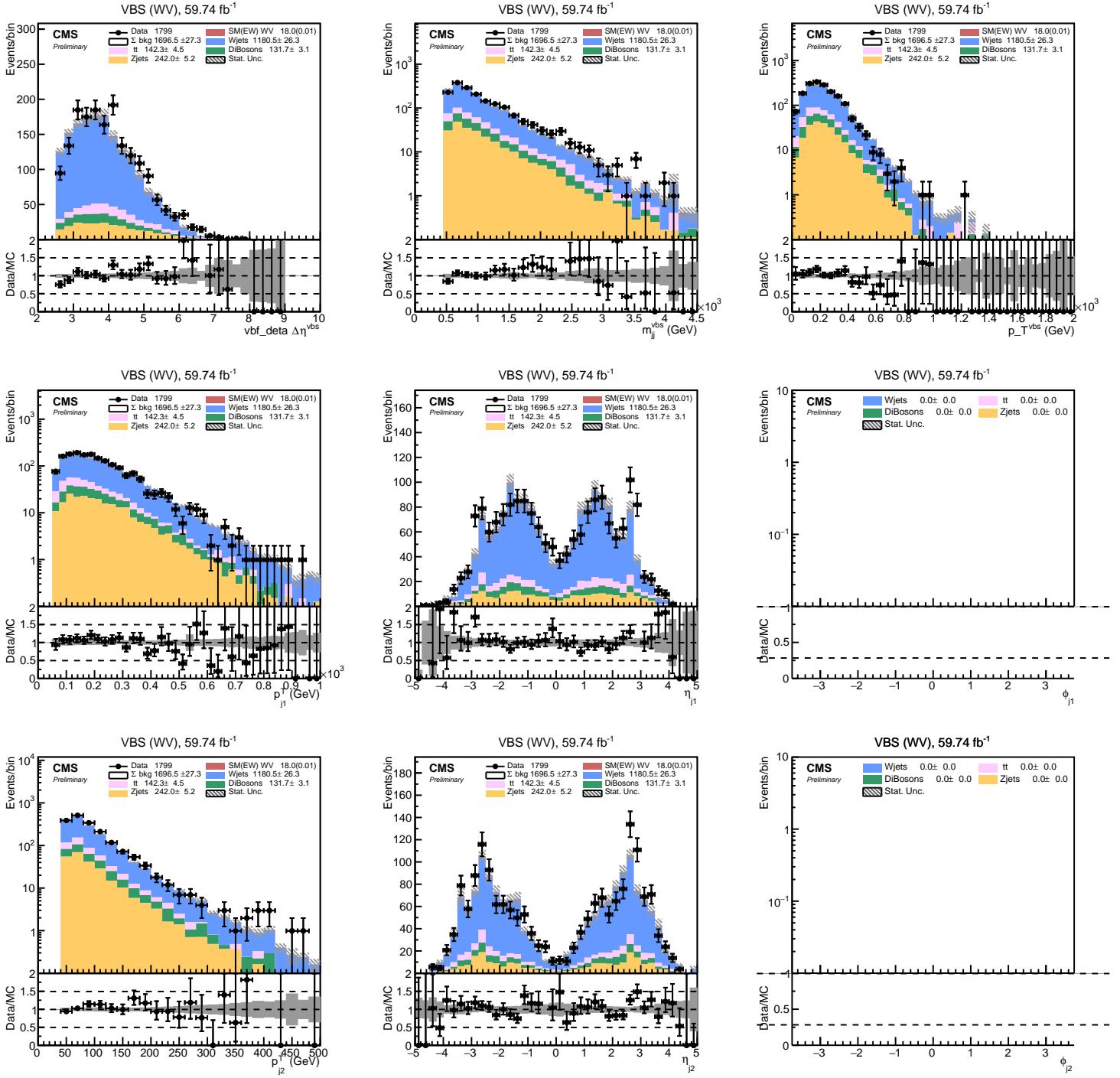


Figure 54: 2018 plot of c3 variables using cut: “Wjets\_Elec\_CR”

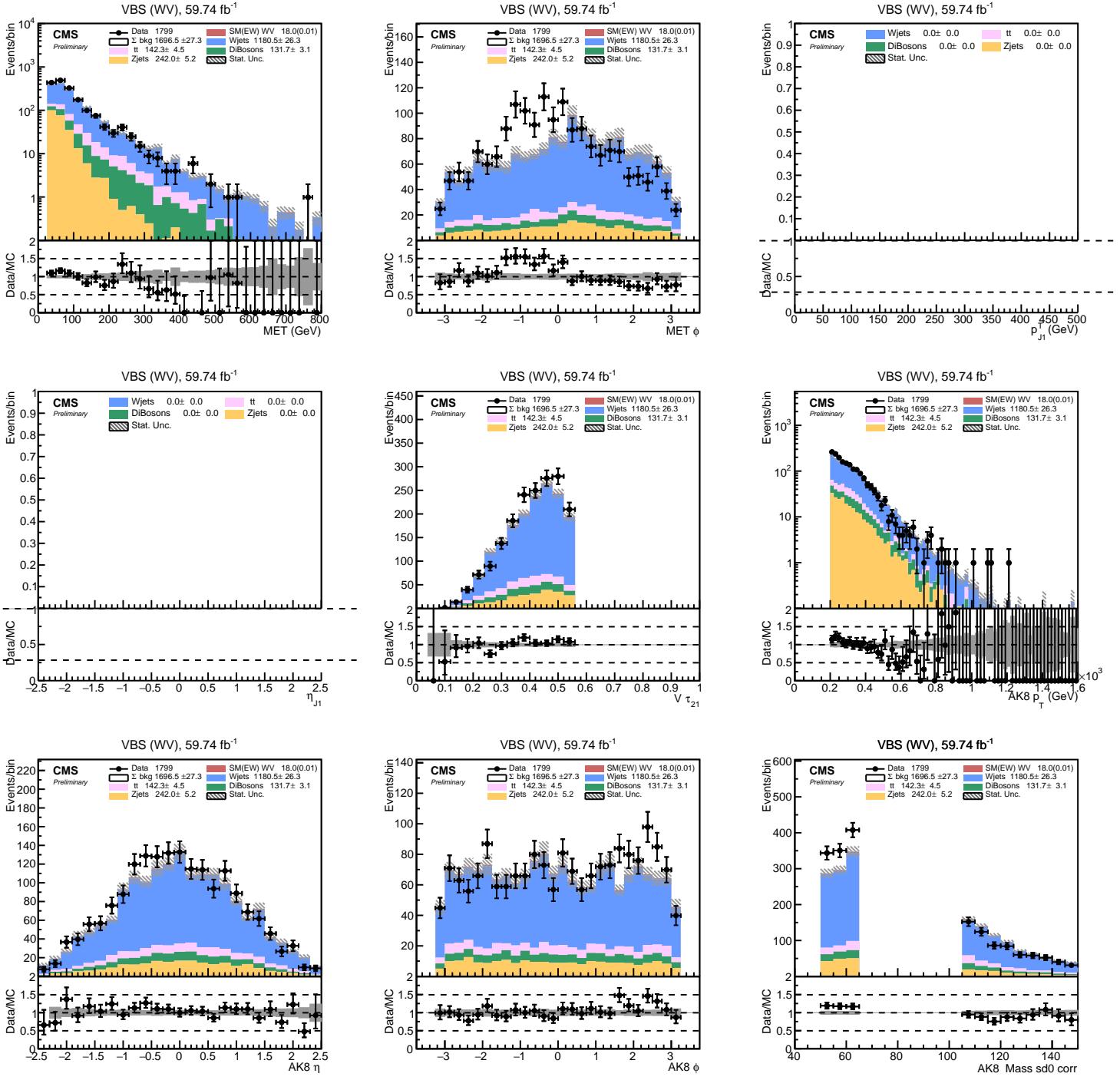
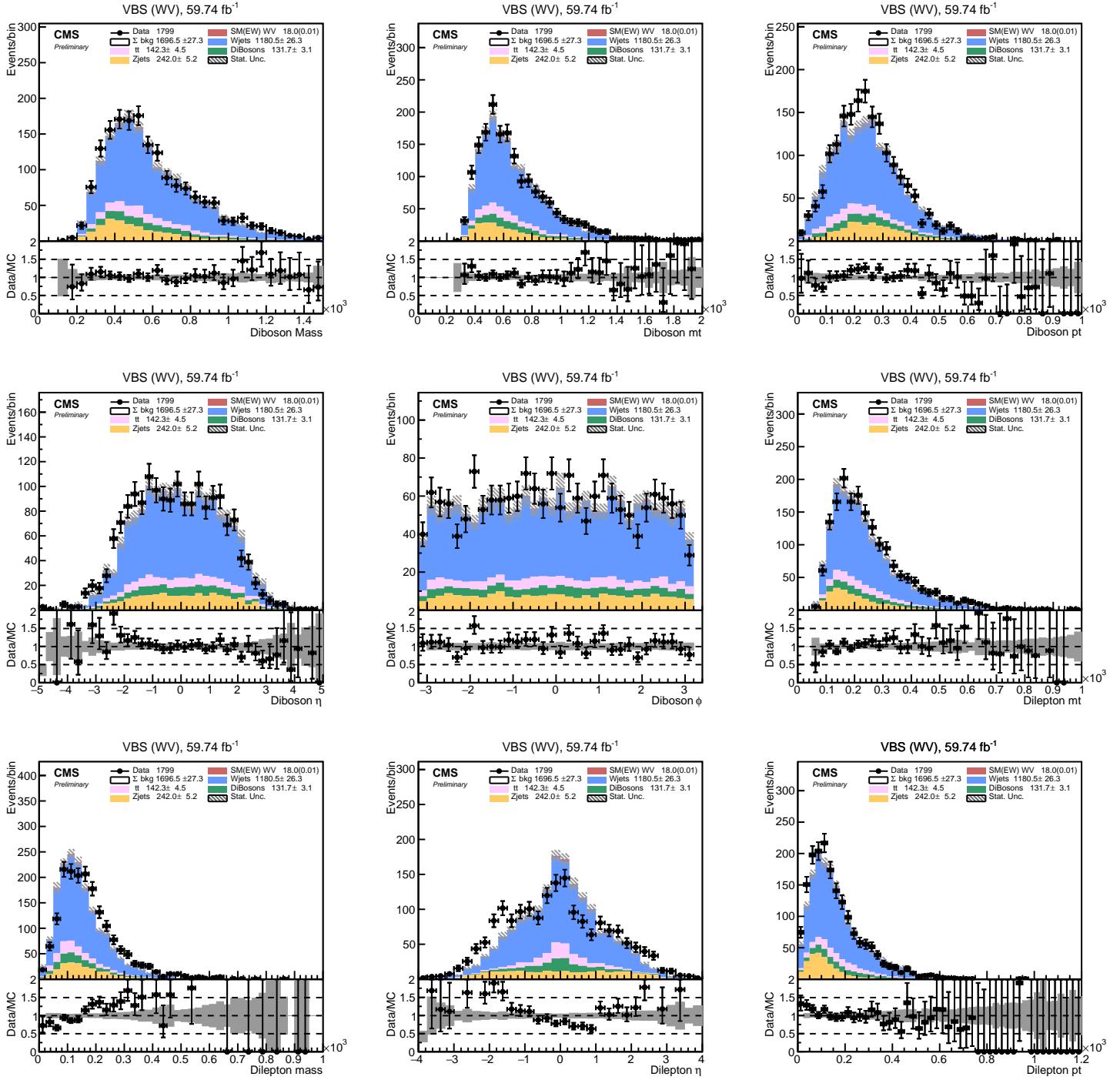


Figure 55: 2018 plot of c4 variables using cut: “Wjets\_Elec\_CR”



## Wjets\_Muon\_CR

Figure 56: 2018 plot of c1 variables using cut: “Wjets\_Muon\_CR”

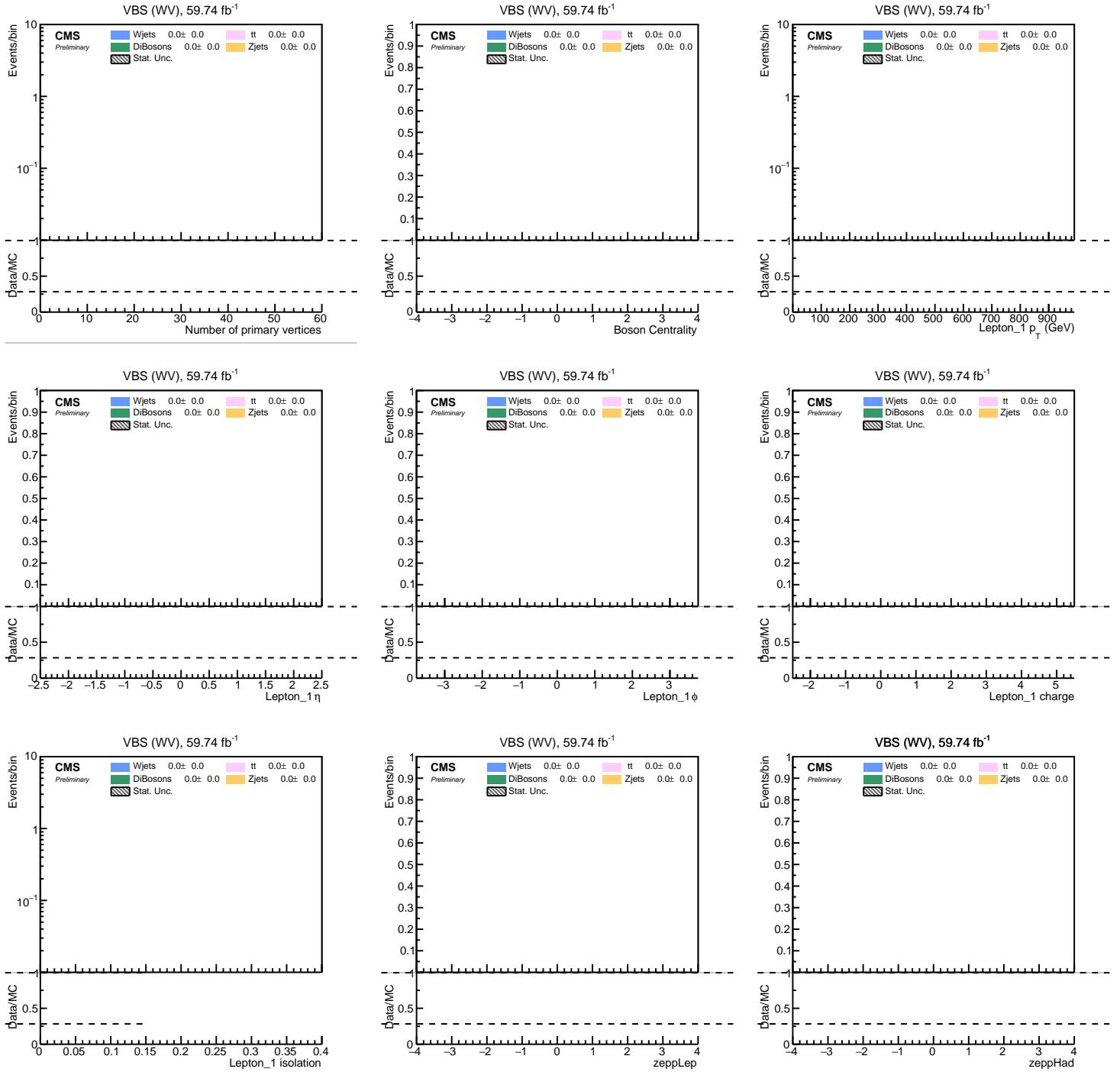


Figure 57: 2018 plot of c2 variables using cut: “Wjets\_Muon\_CR”

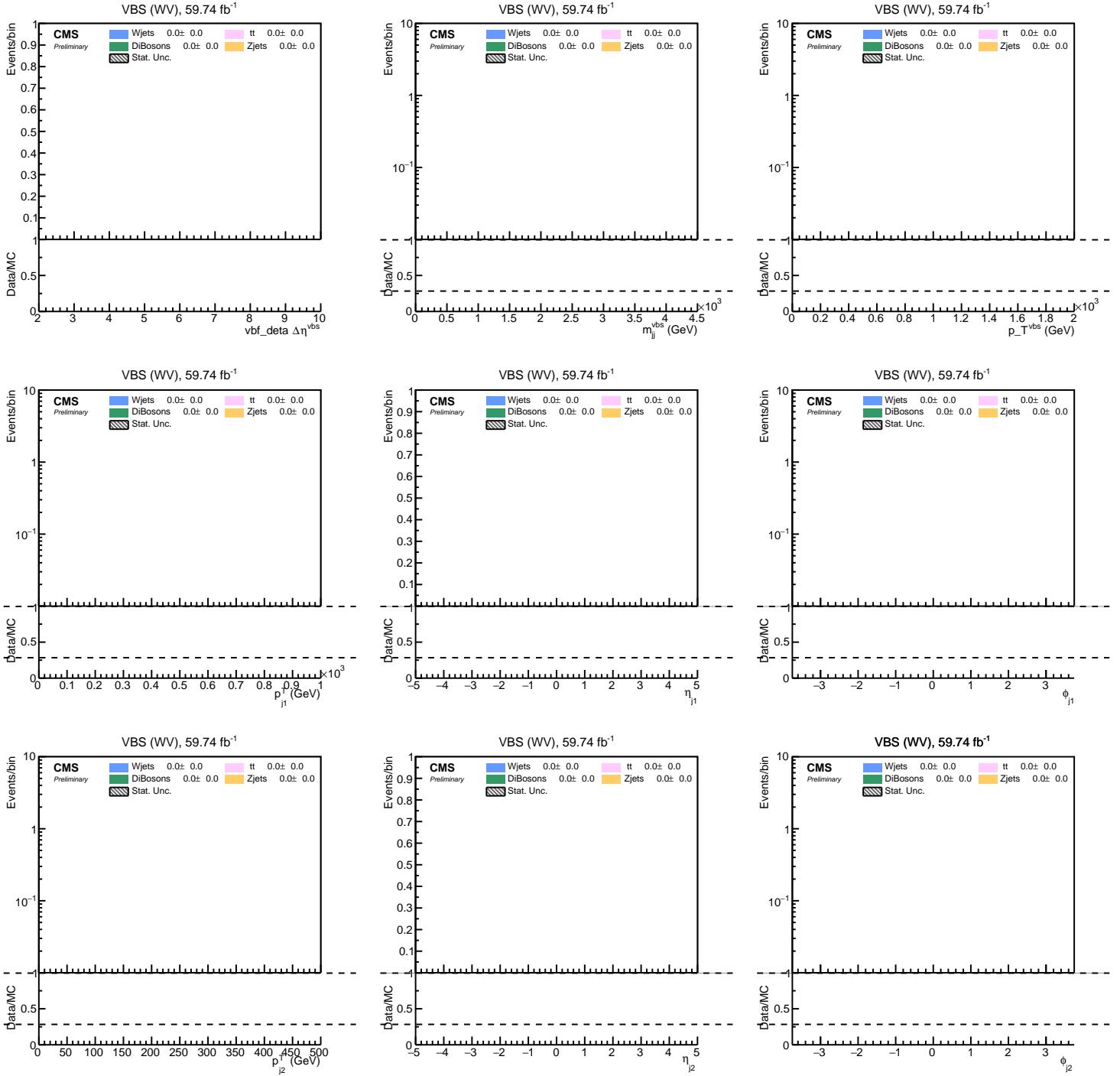


Figure 58: 2018 plot of c3 variables using cut: “Wjets\_Muon\_CR”

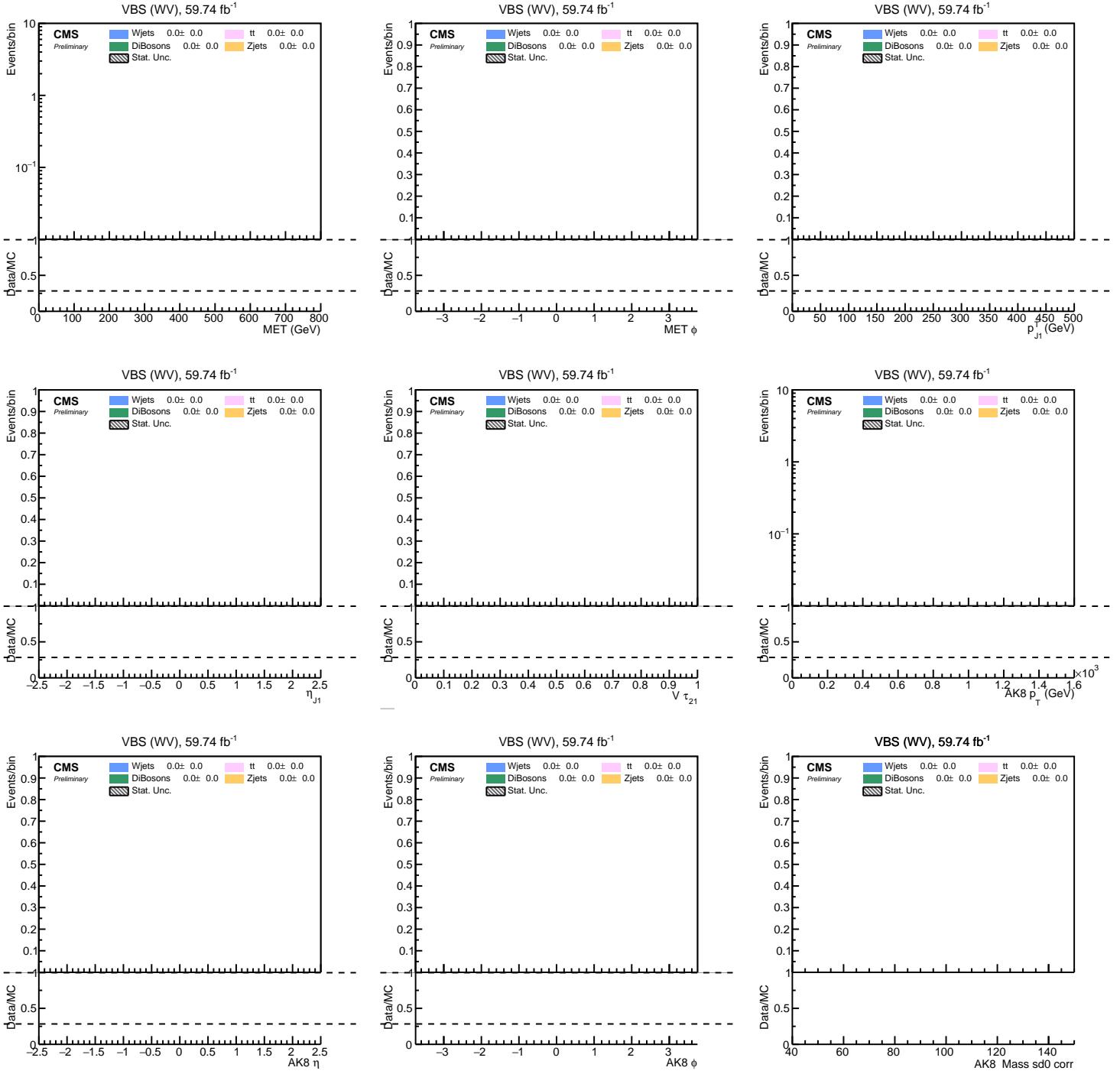
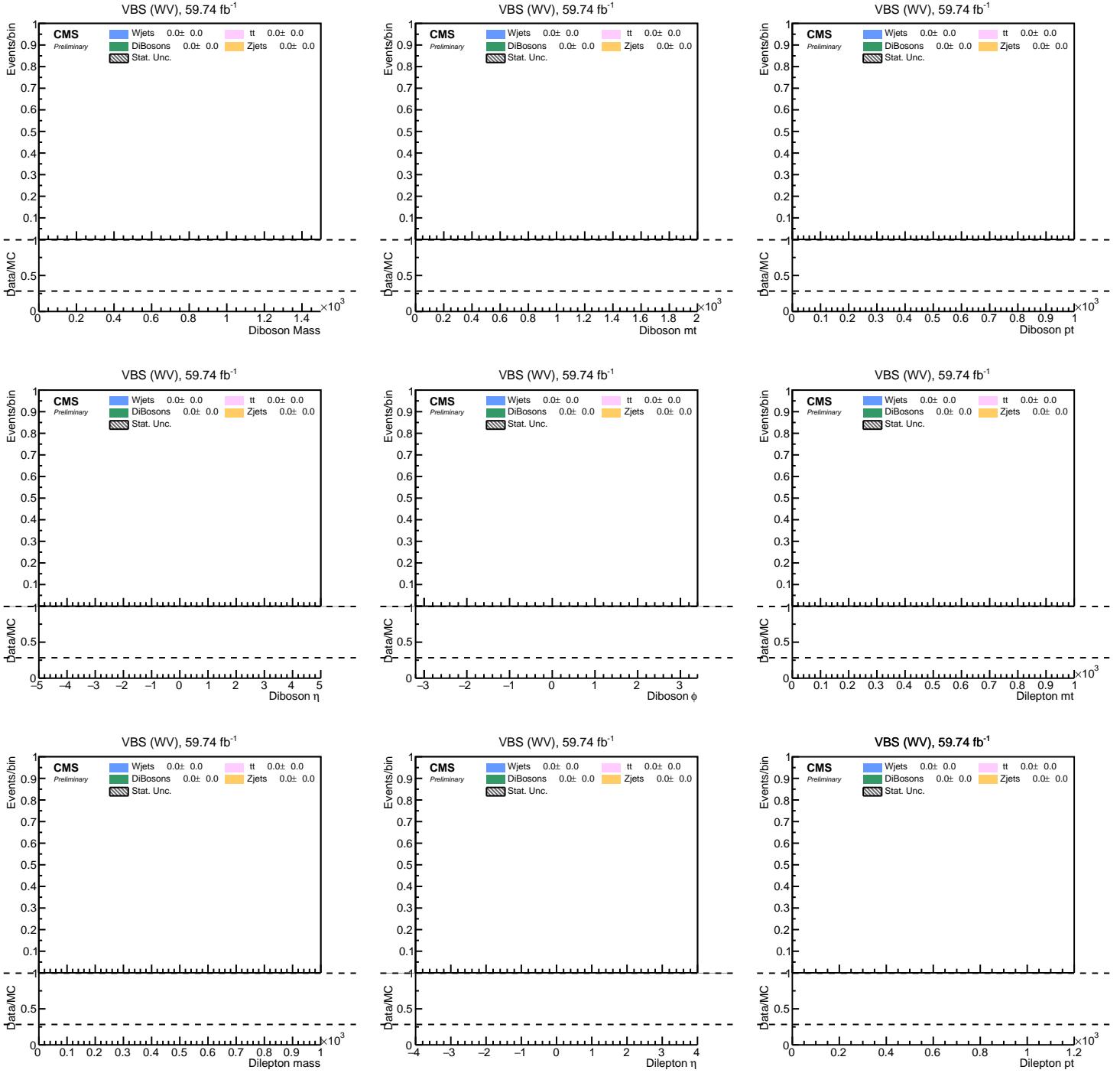


Figure 59: 2018 plot of  $c_4$  variables using cut: “Wjets\_Muon\_CR”



## Wjets\_Test\_CR

Figure 60: 2018 plot of c1 variables using cut: “Wjets\_Test\_CR”

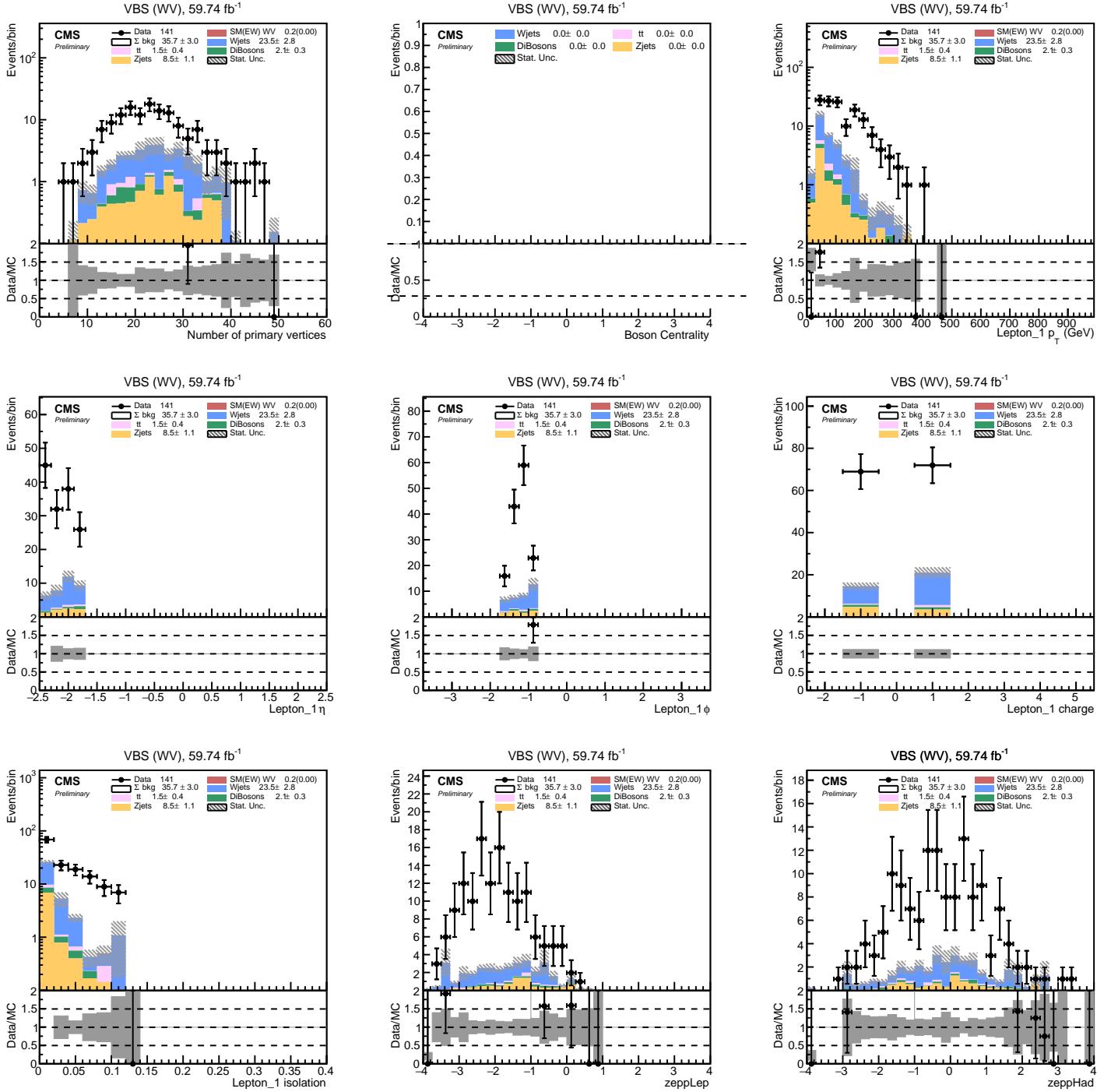


Figure 61: 2018 plot of c2 variables using cut: “Wjets\_Test\_CR”

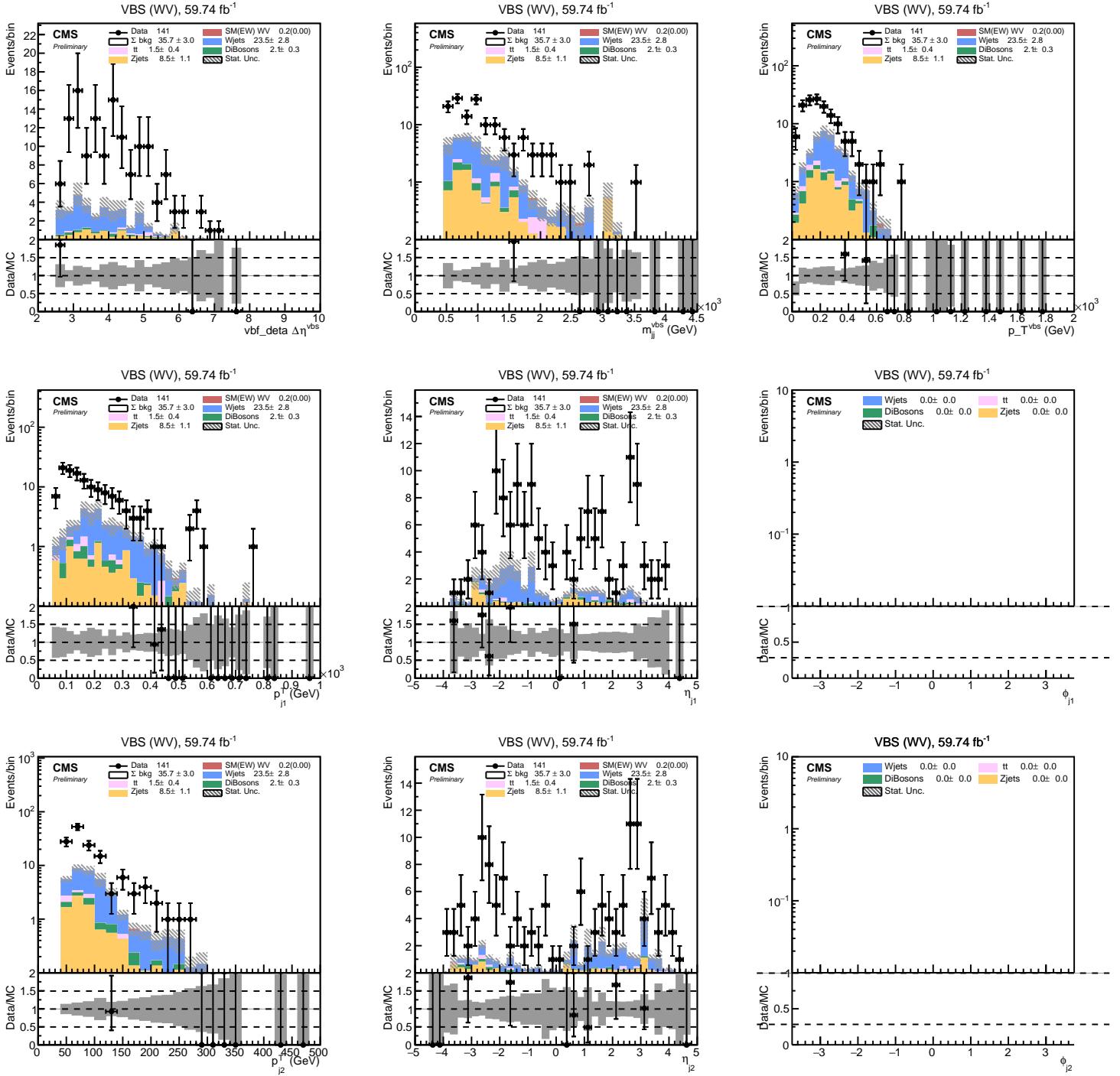


Figure 62: 2018 plot of c3 variables using cut: “Wjets\_Test\_CR”

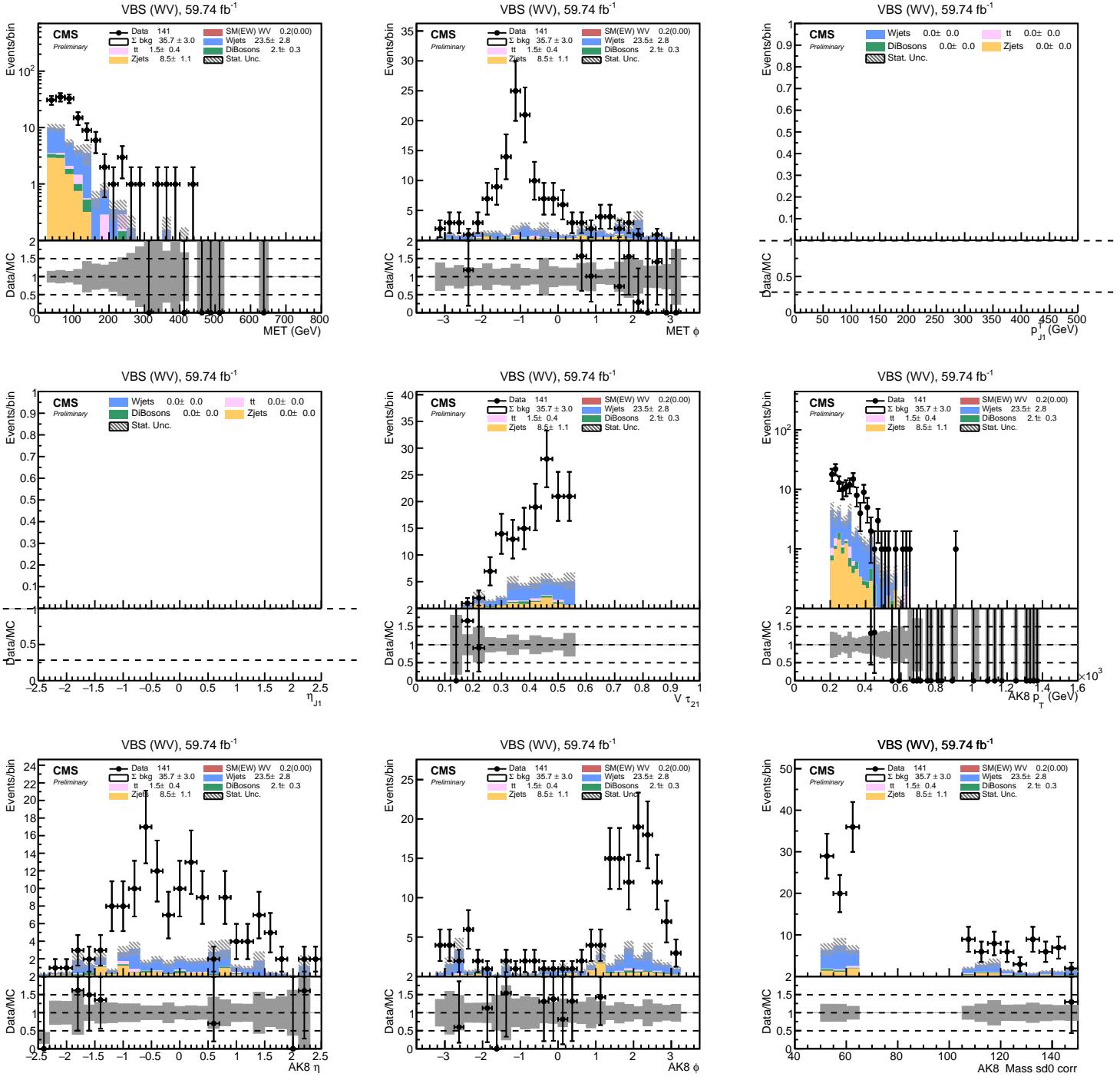


Figure 63: 2018 plot of c4 variables using cut: “Wjets\_Test\_CR”

