

**On-line (pre-)selection Requisites for:**

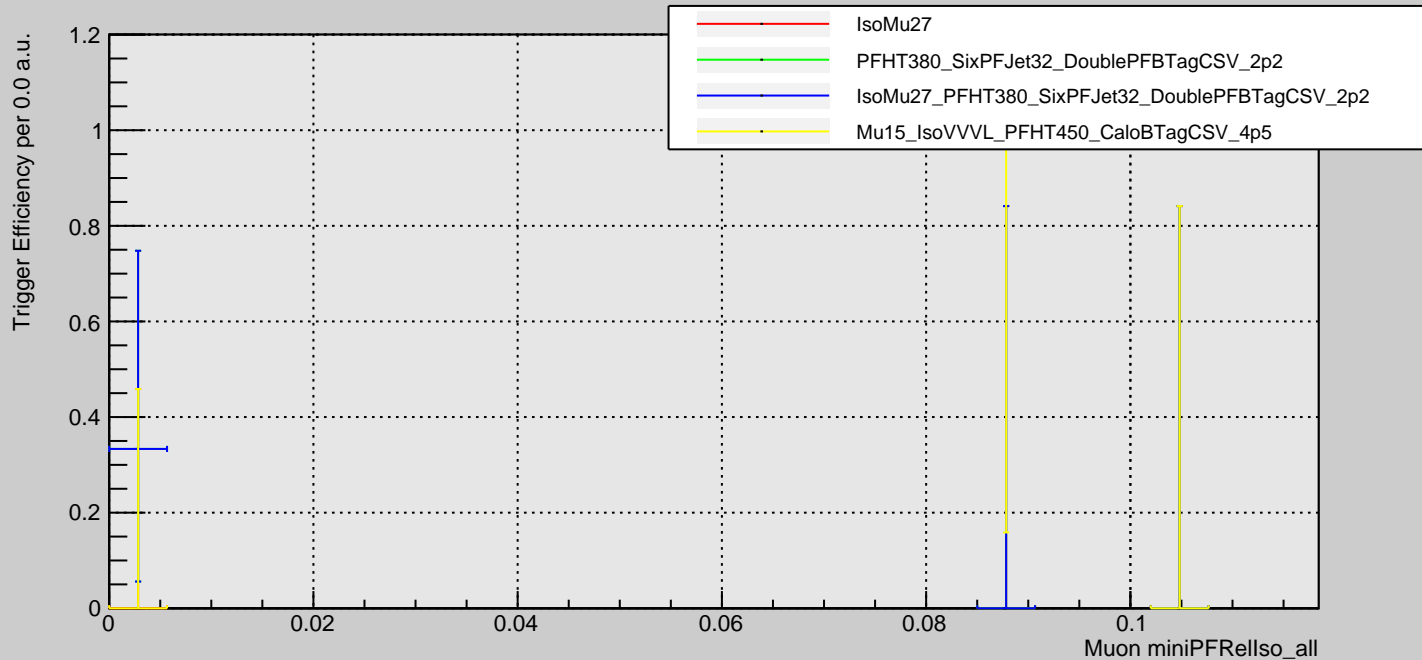
- **Jets:** number  $> 5$
- **Muons plus Electrons:** number  $> 0$

**Event Limit:** None (see last page)

**Off-line (post-)selection Requisites for:**

- **Jets:**  $\text{jetId} > 2$  ,  $p_T > 30$  and  $|\eta| < 2.4$  (for at least 6 jets)  
 $\text{btagDeepFlavB} > 0.7489$  (for at least one jet)
- **Muons:** has tightId,  $|\eta| < 2.4$  and  $\text{PFRelIso\_all} < 0.15$  (for at least 1)

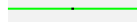
**Muon Pt = 5**



**Muon Pt = 10**



IsoMu27



PFHT380\_SixPFJet32\_DoublePFBTagCSV\_2p2

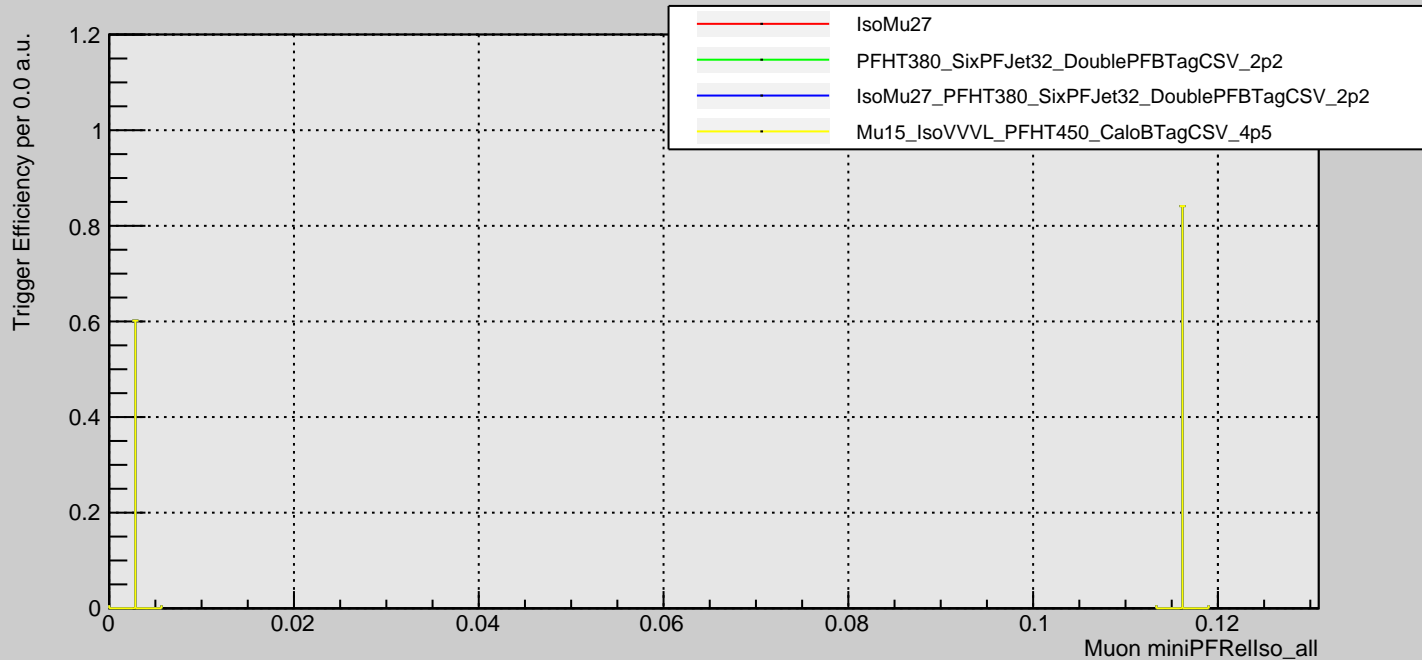


IsoMu27\_PFHT380\_SixPFJet32\_DoublePFBTagCSV\_2p2

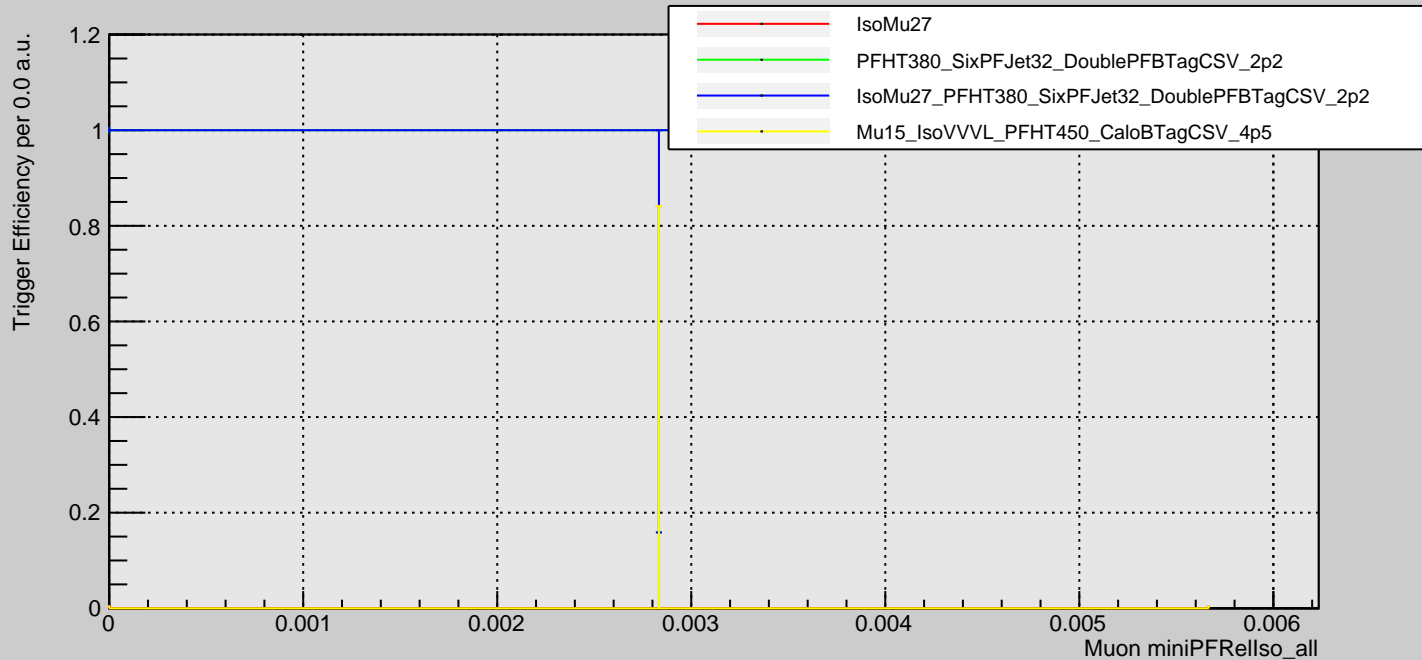


Mu15\_IsoVVVL\_PFHT450\_CaloBTagCSV\_4p5

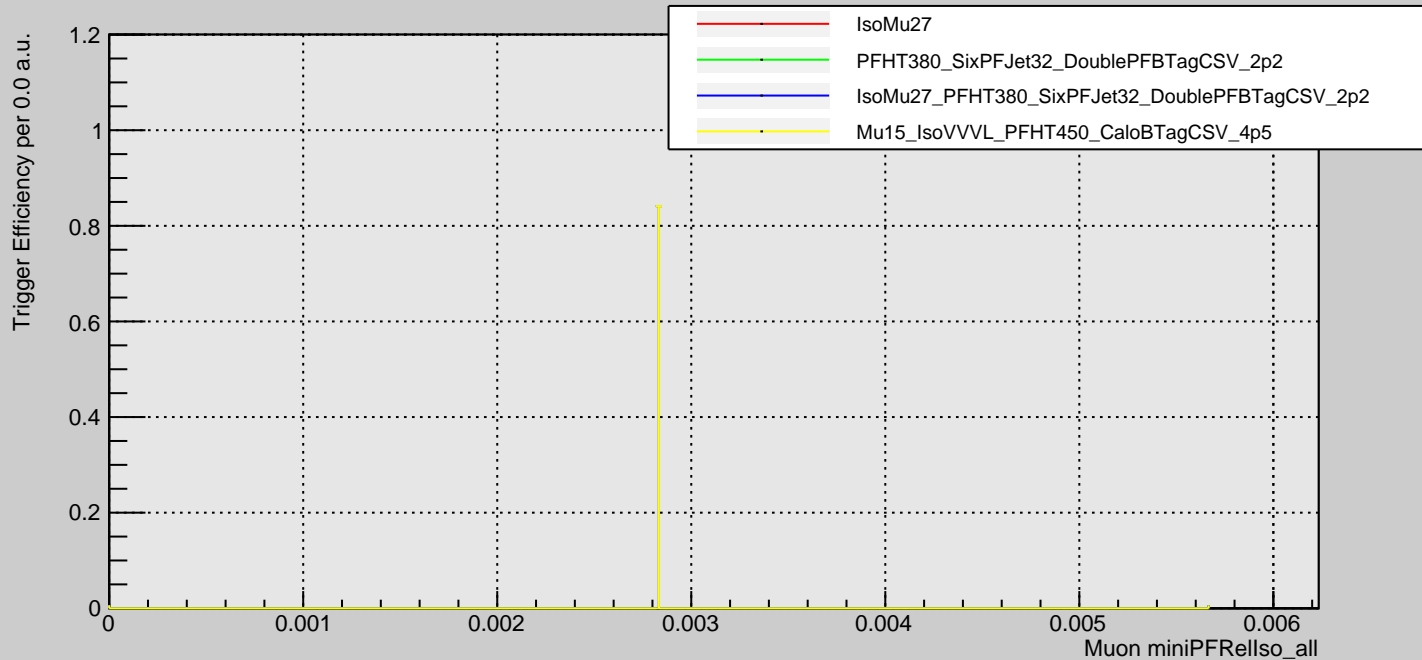
**Muon Pt = 15**



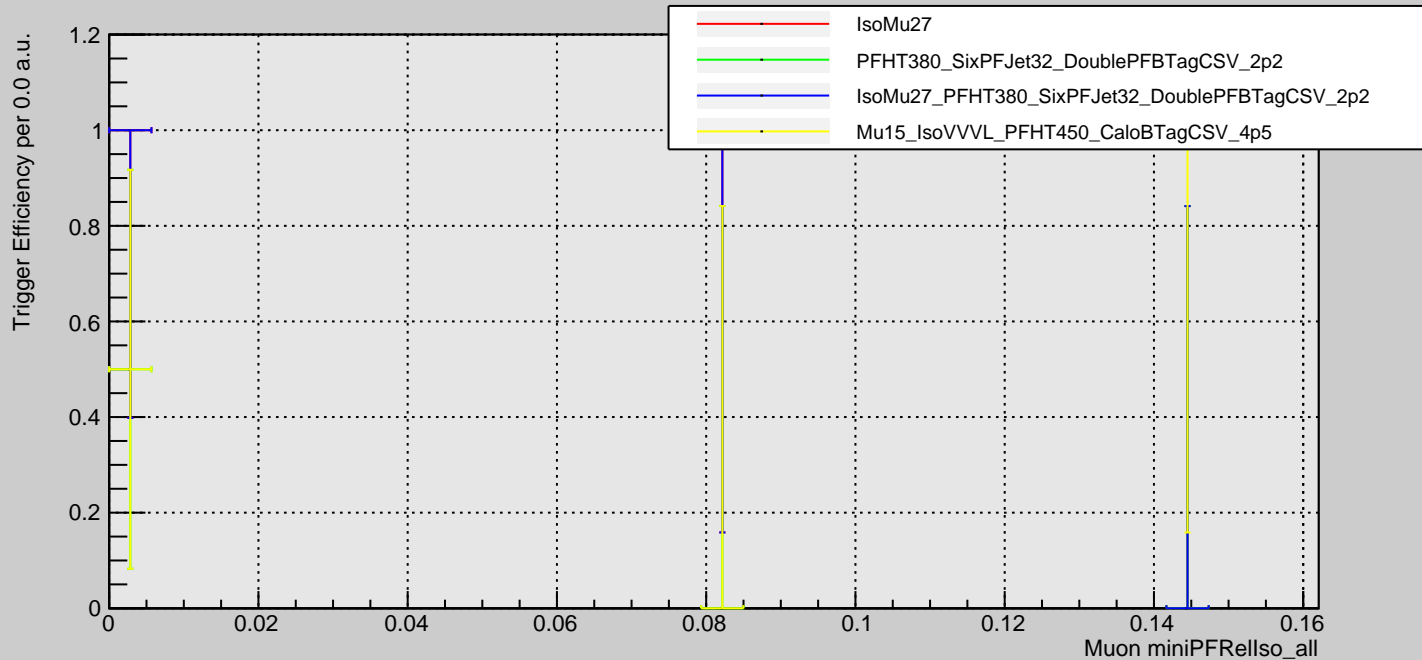
**Muon Pt = 20**



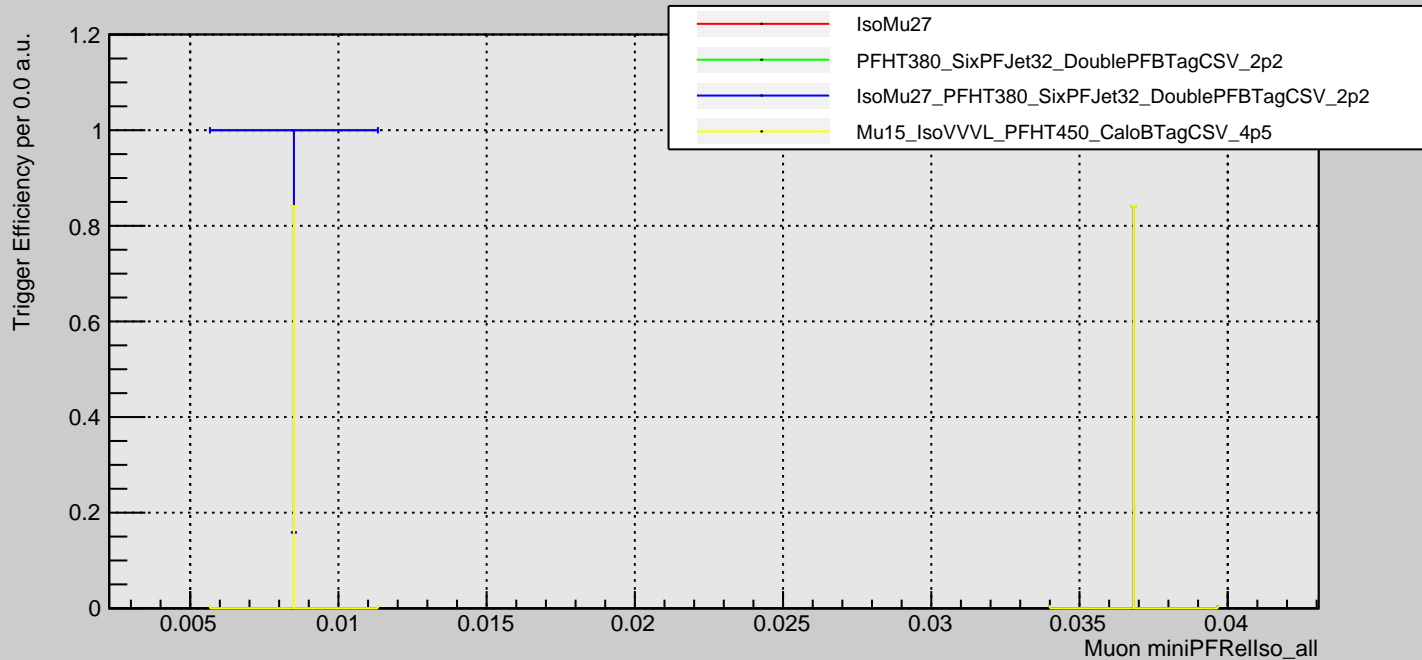
**Muon Pt = 25**



**Muon Pt = 30**

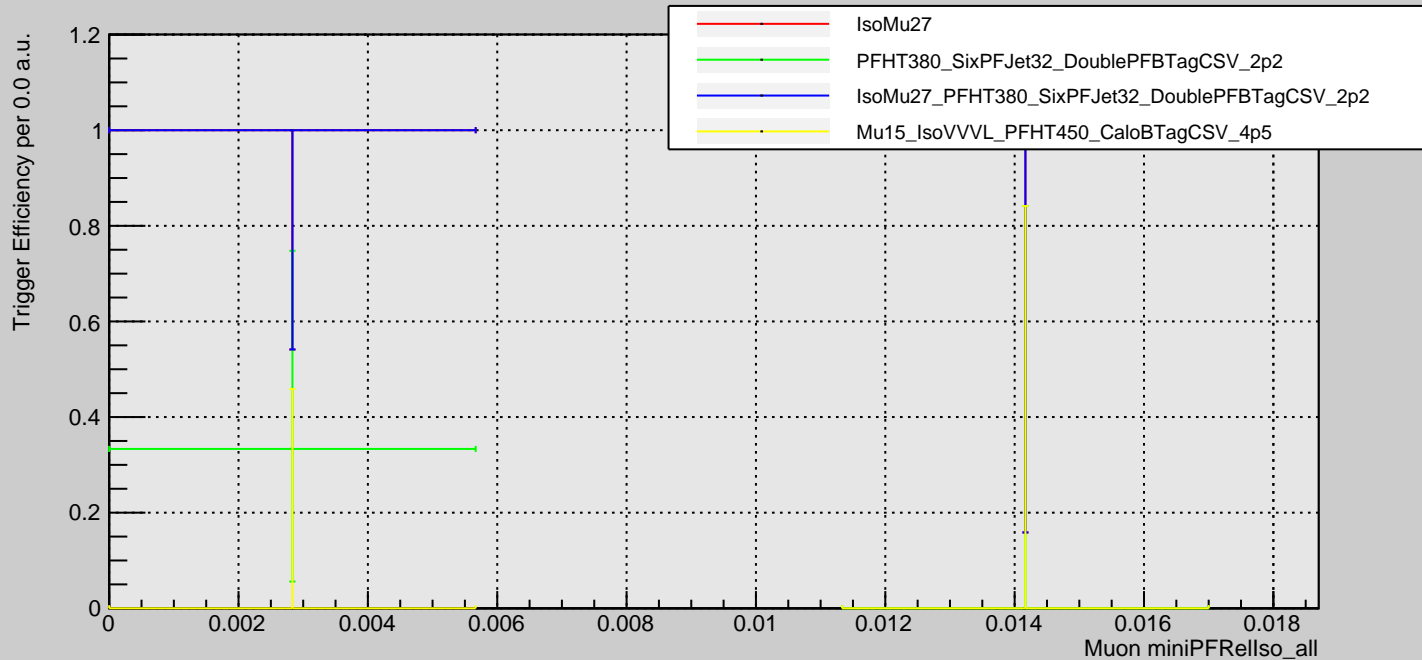


**Muon Pt = 35**

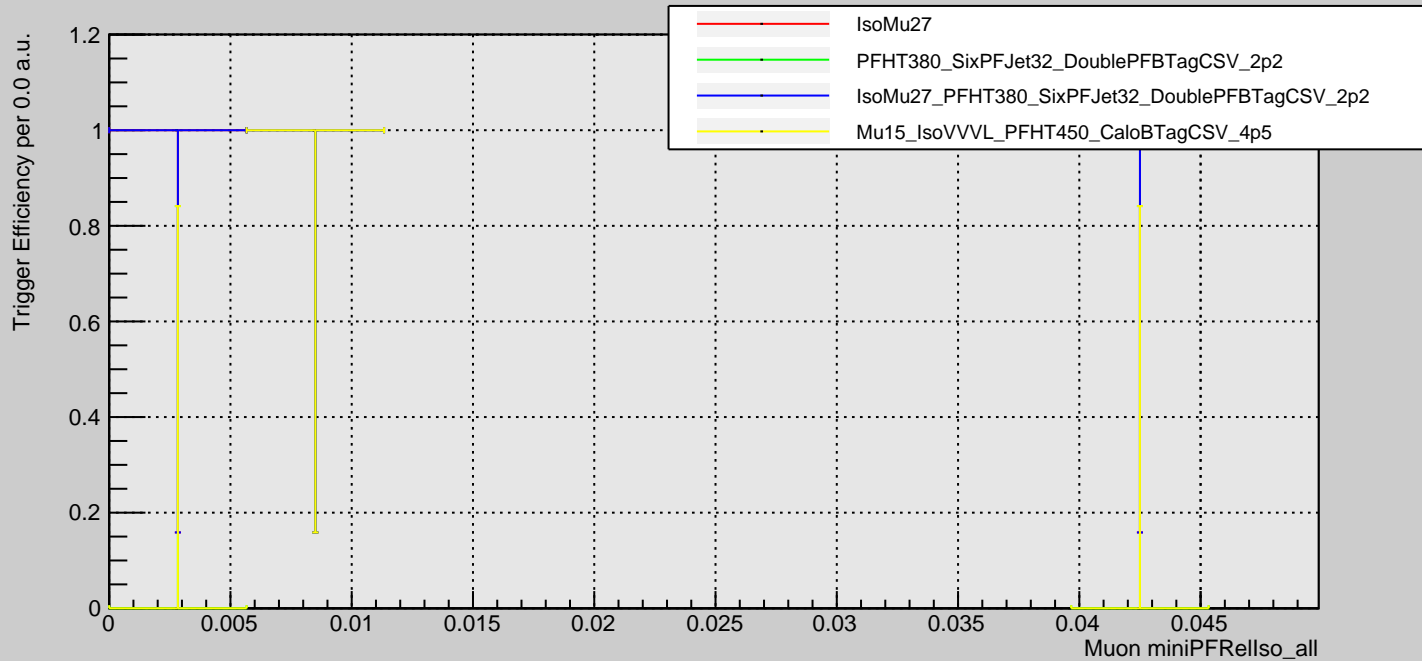




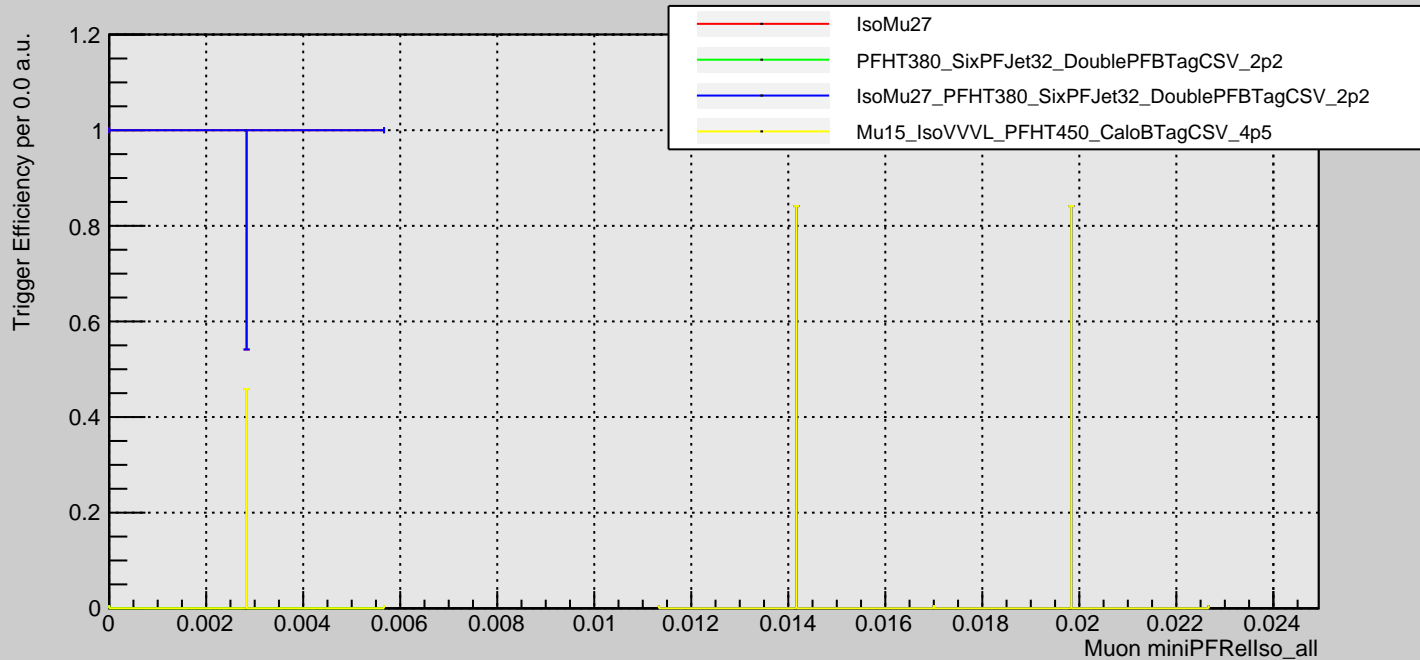
**Muon Pt = 40**



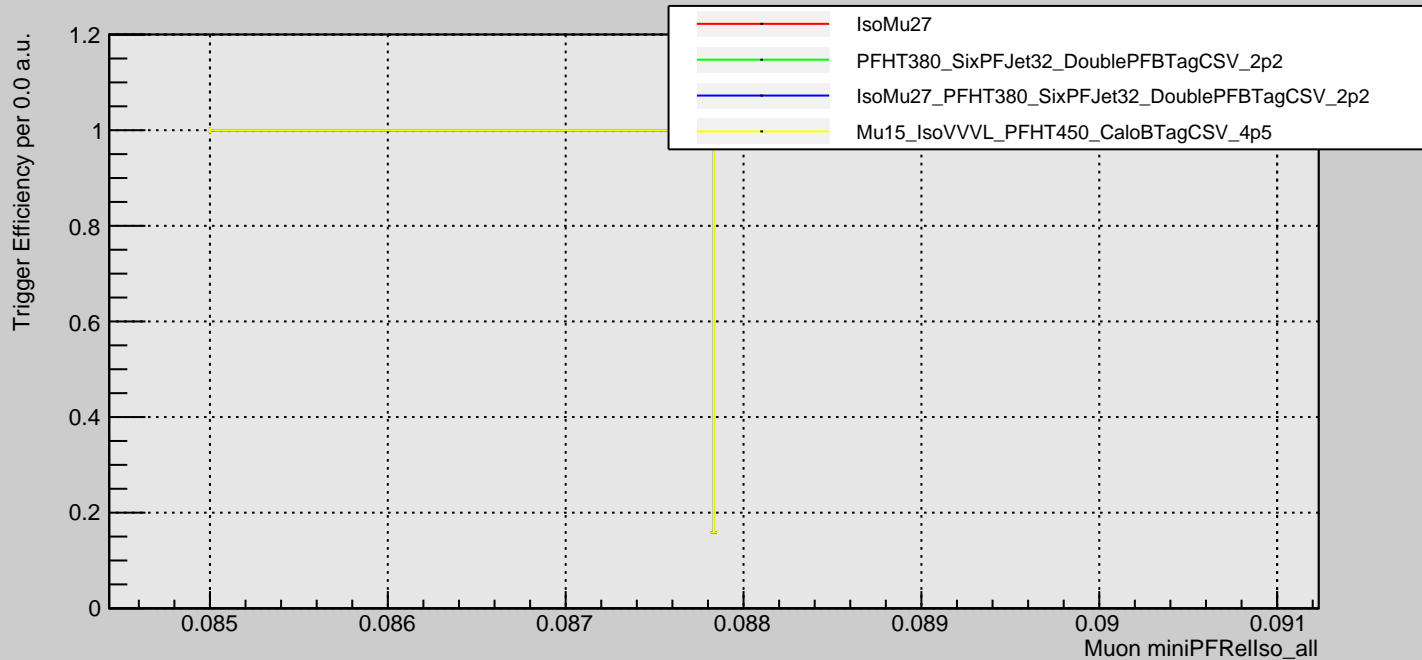
**Muon Pt = 45**



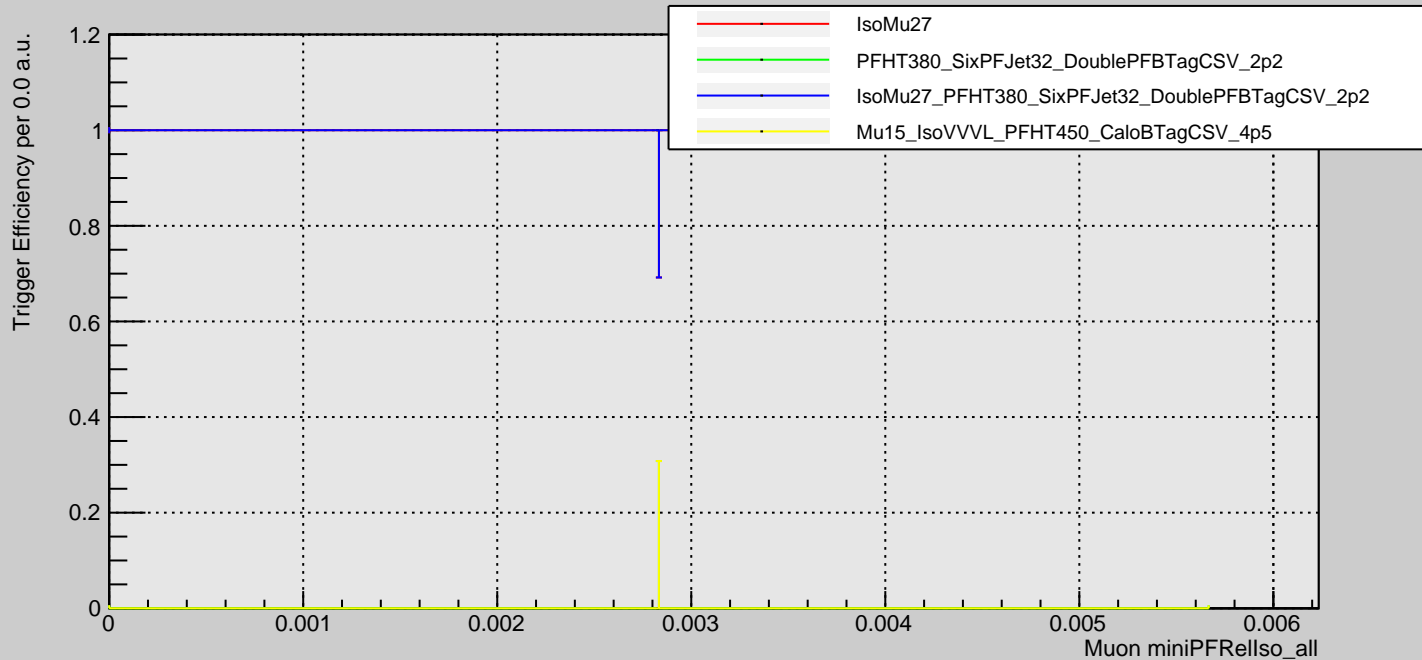
**Muon Pt = 50**



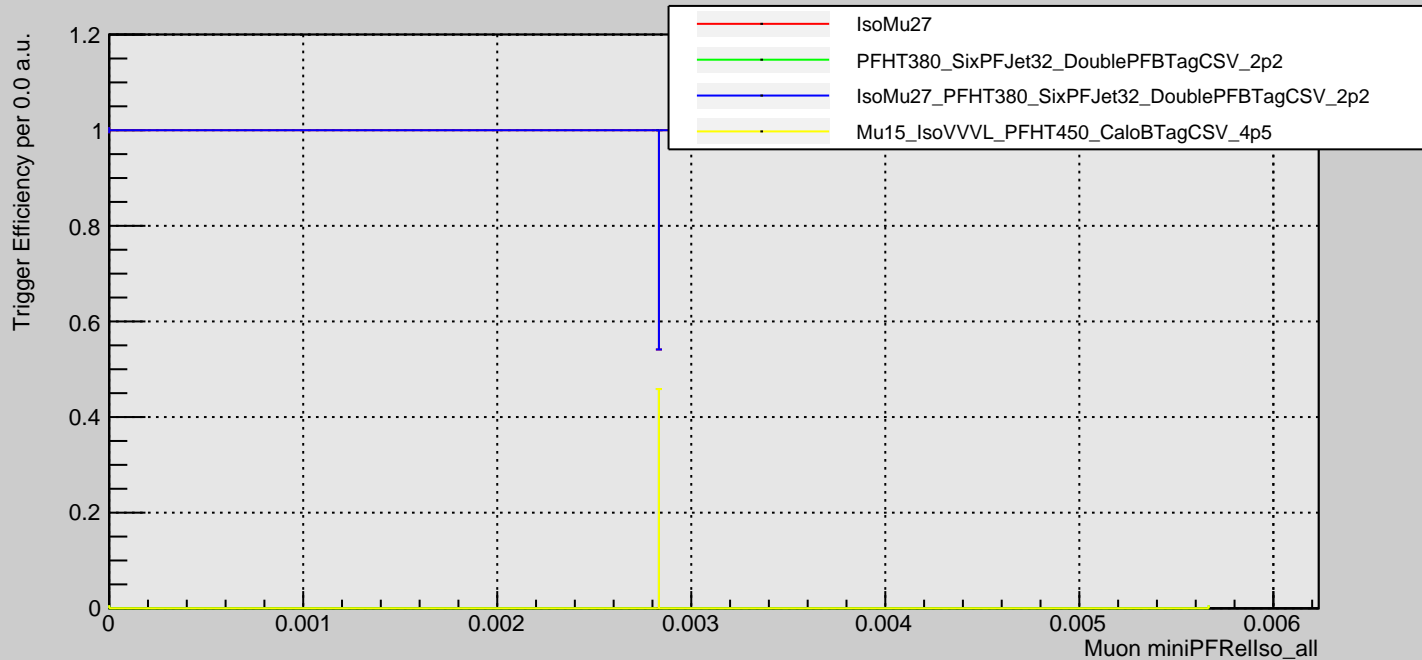
**Muon Pt = 55**



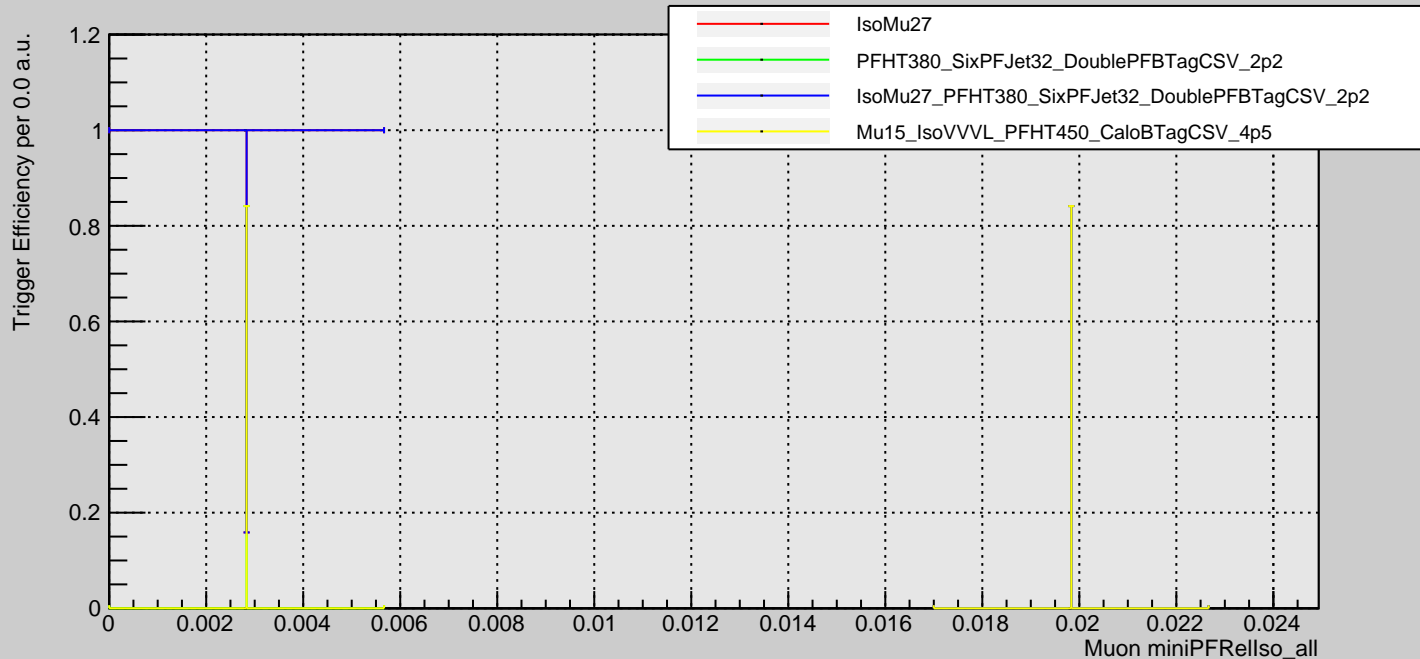
**Muon Pt = 60**



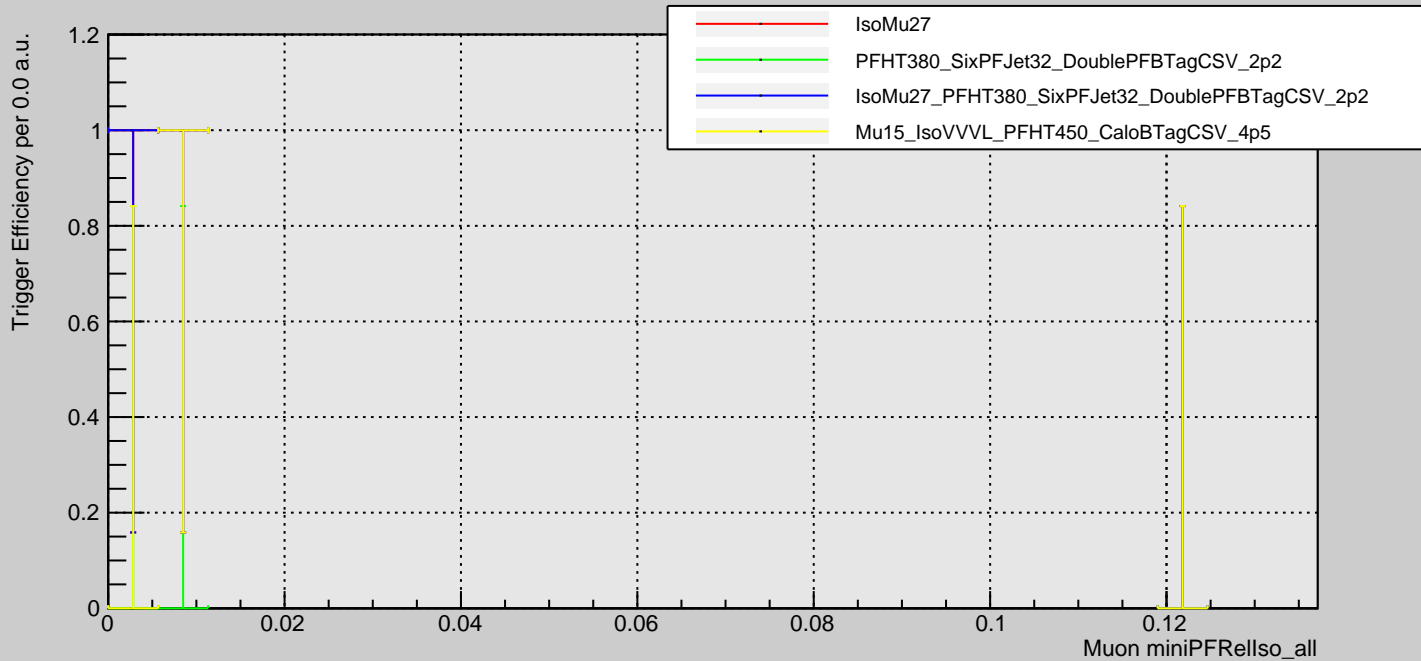
**Muon Pt = 65**



**Muon Pt = 70**

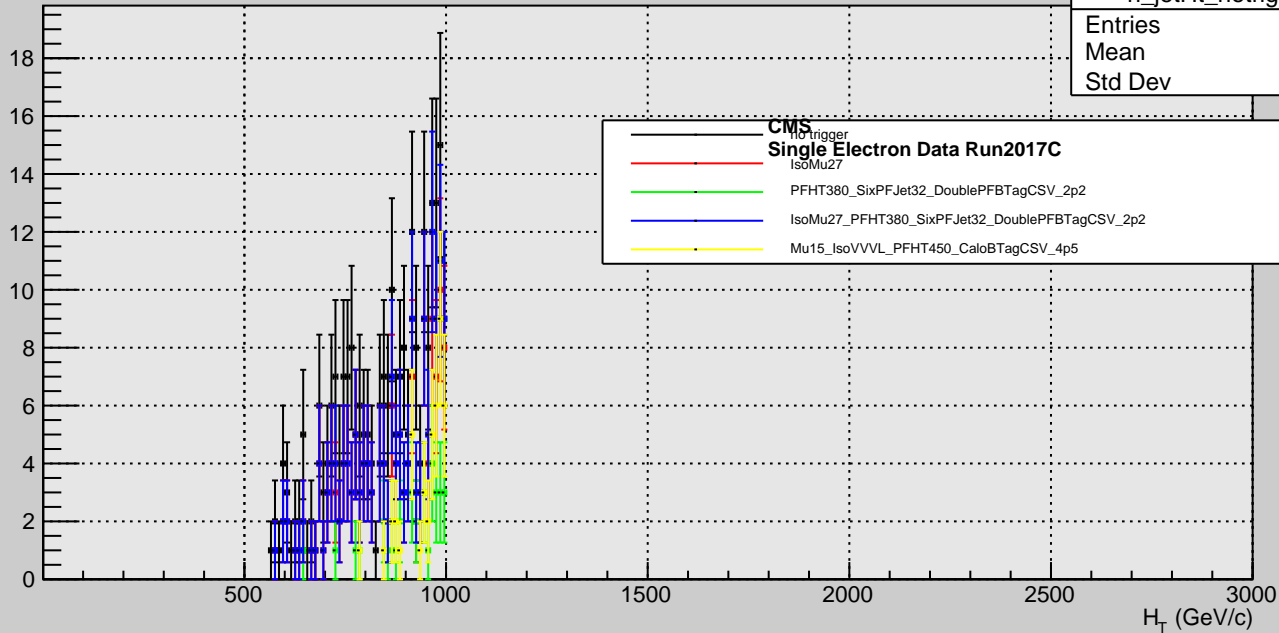


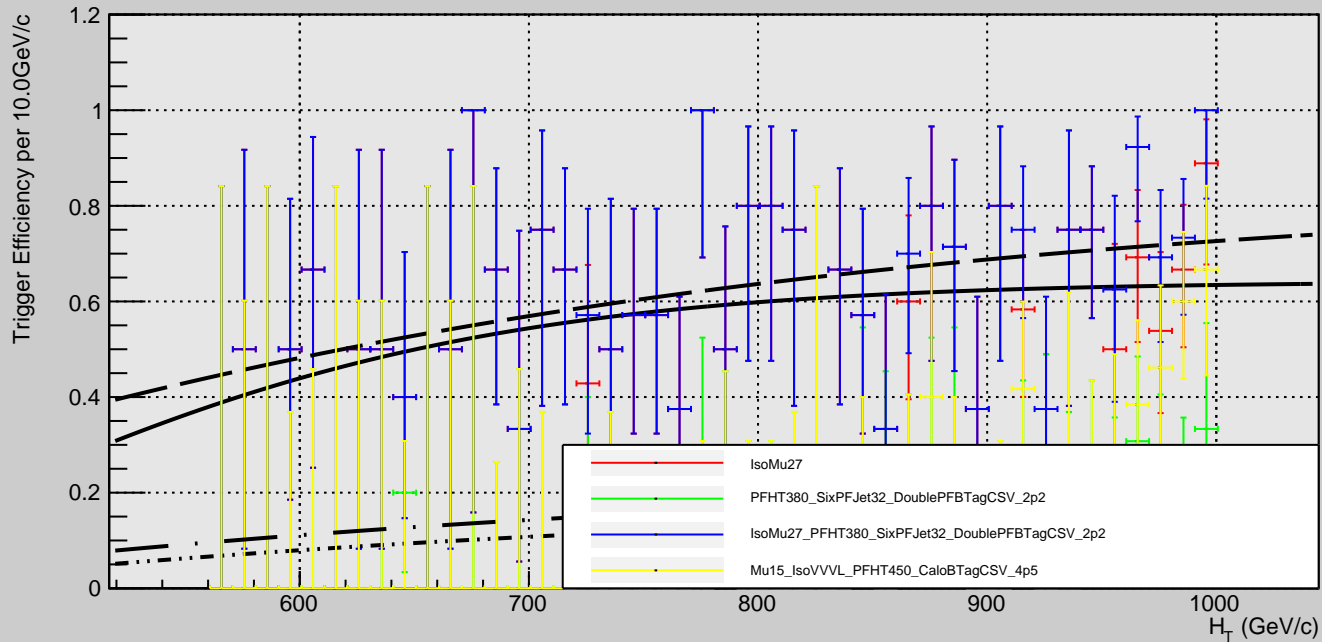
**Muon Pt = 75**

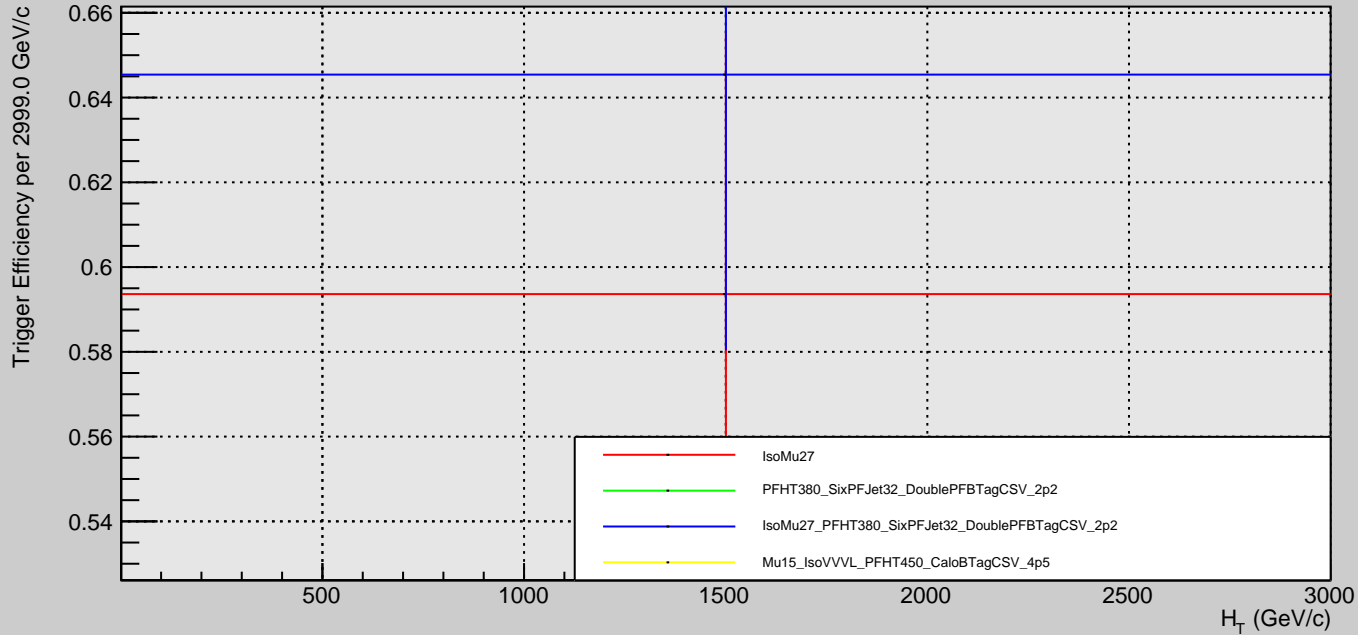




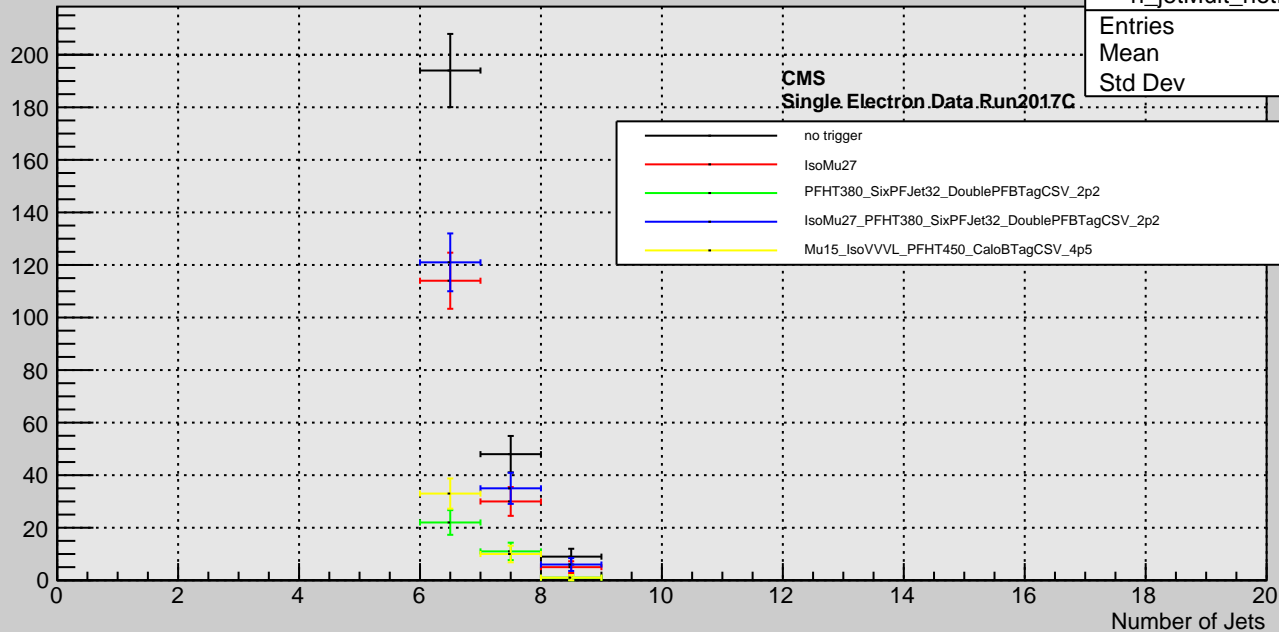
Number of Events per 10 GeV/c





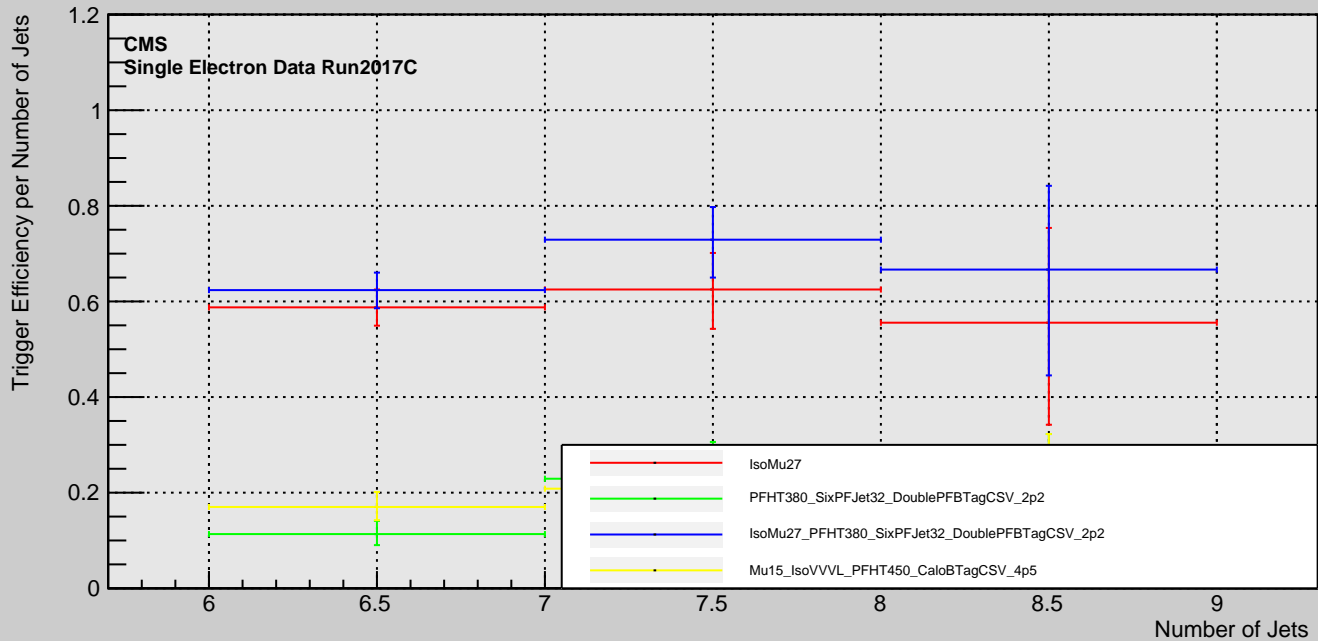


Number of Events per Number of Jets

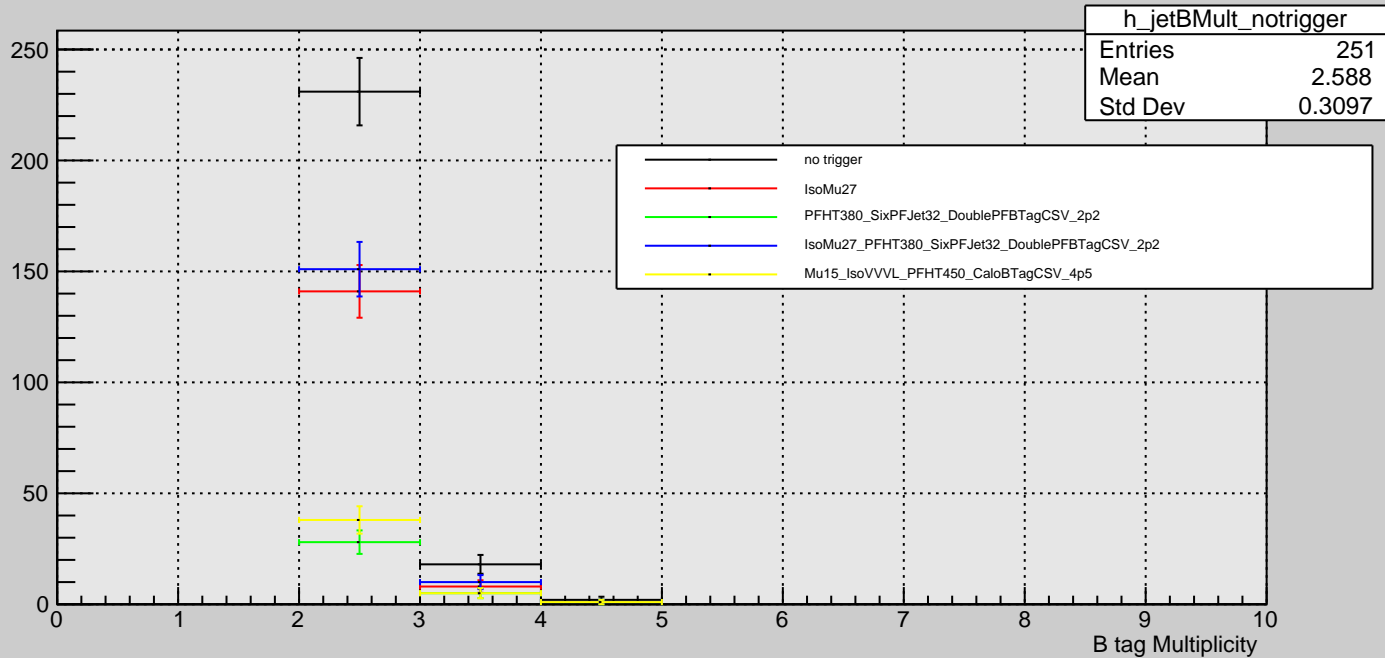


h\_jetMult\_notrigger

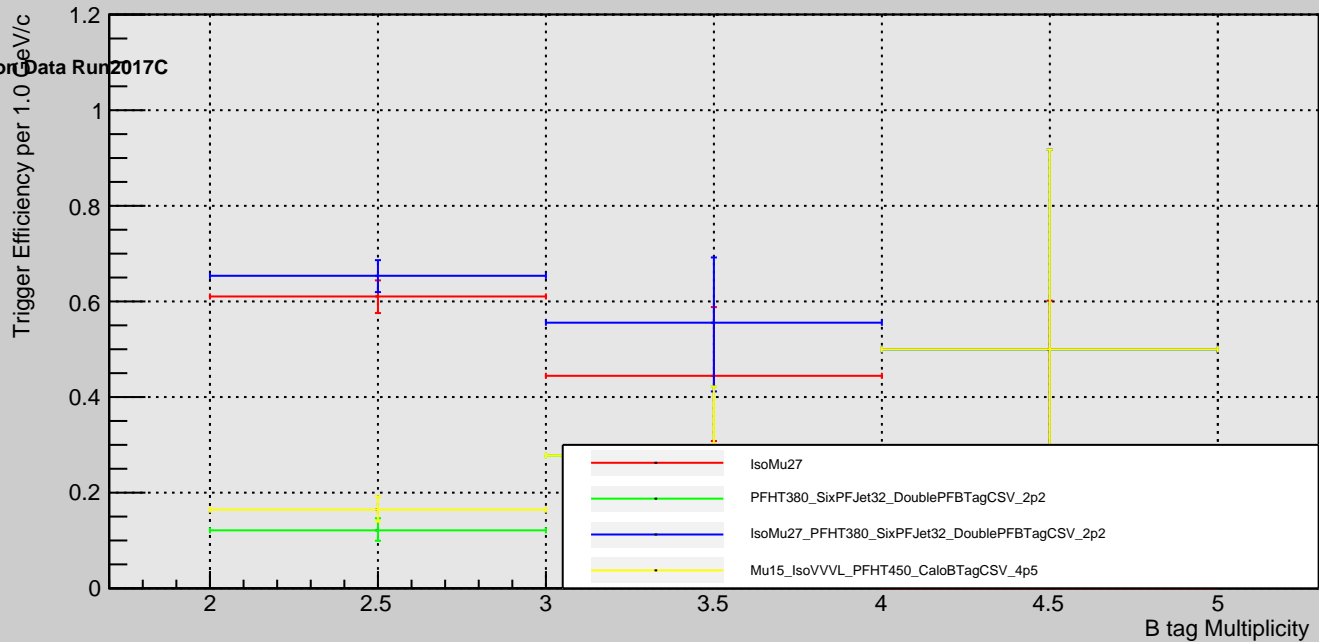
Entries	251
Mean	6.263
Std Dev	0.5153



Number of Events per Number of Jets

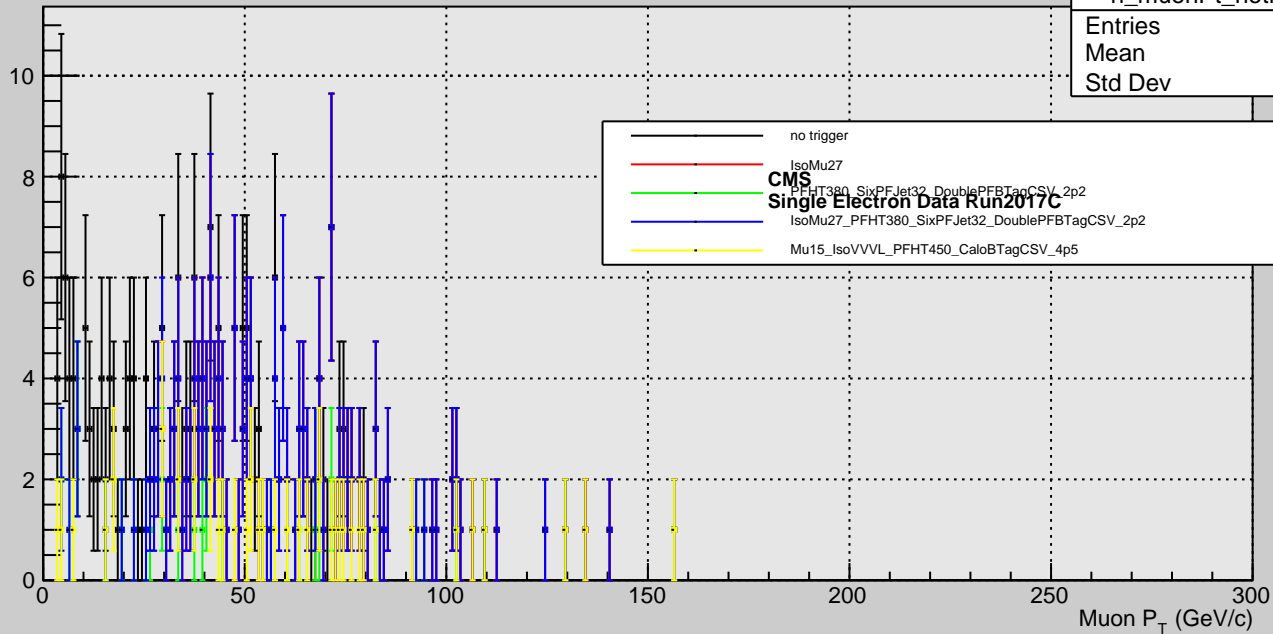


electron Data Run 2017C



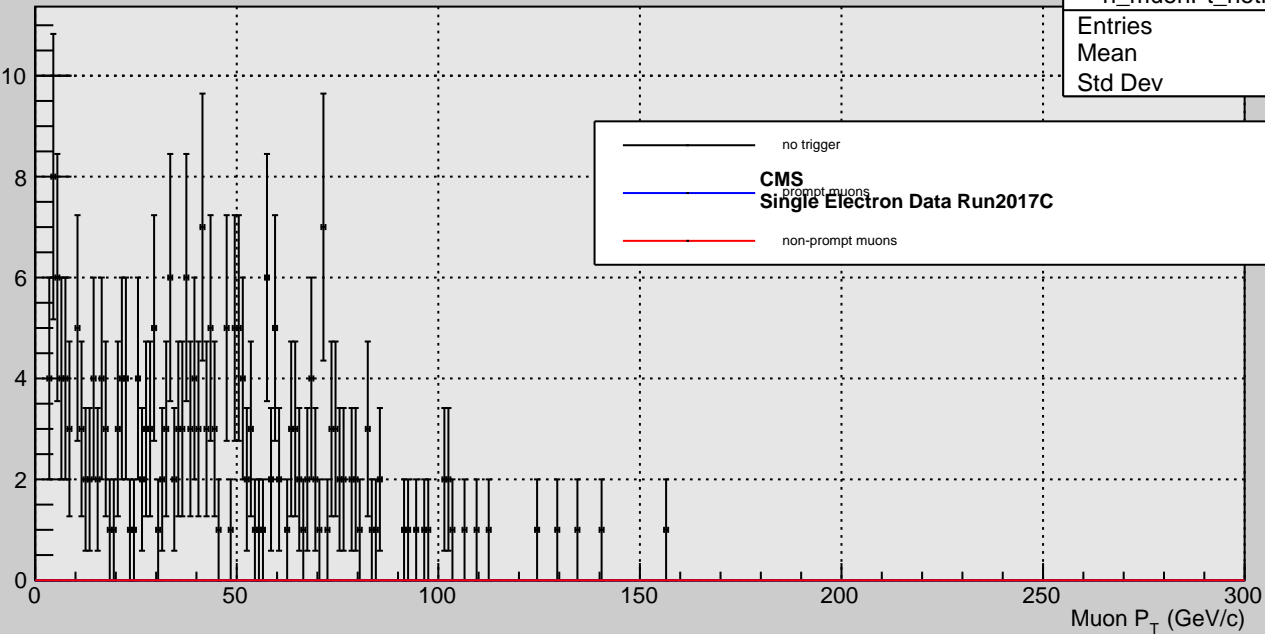
Number of Events per 1 GeV/c

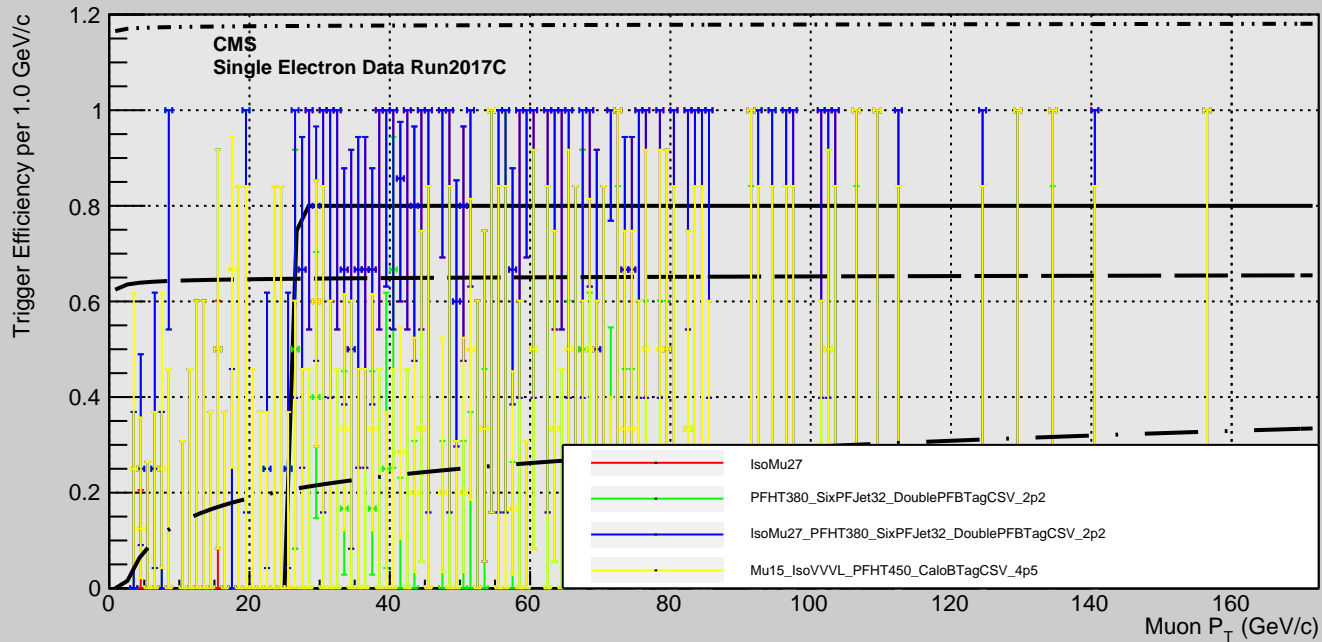
h_muonPt_notrigger	
Entries	251
Mean	44.95
Std Dev	29.2

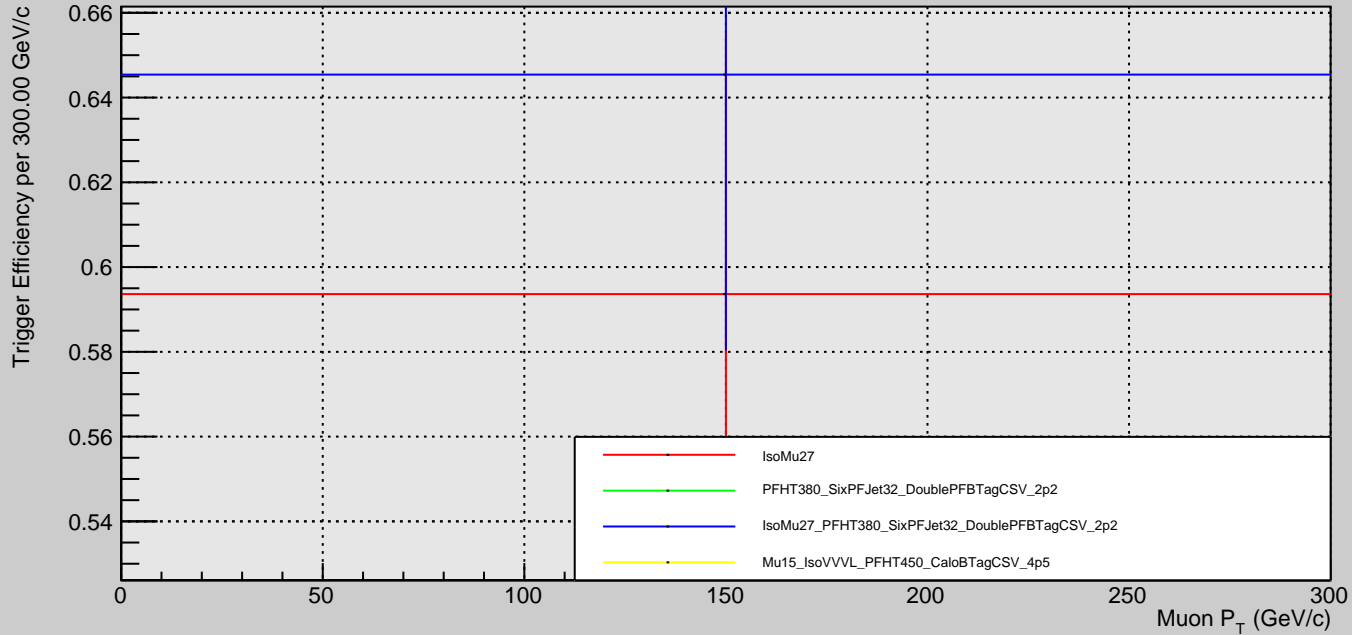




Number of Events per 1 GeV/c

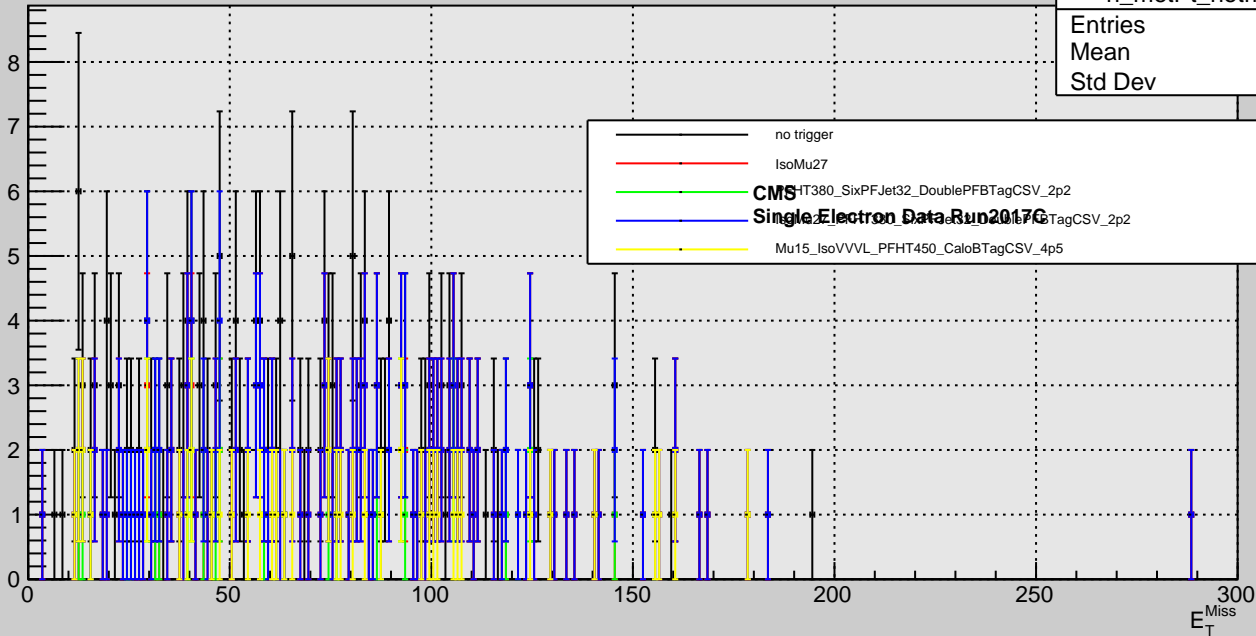


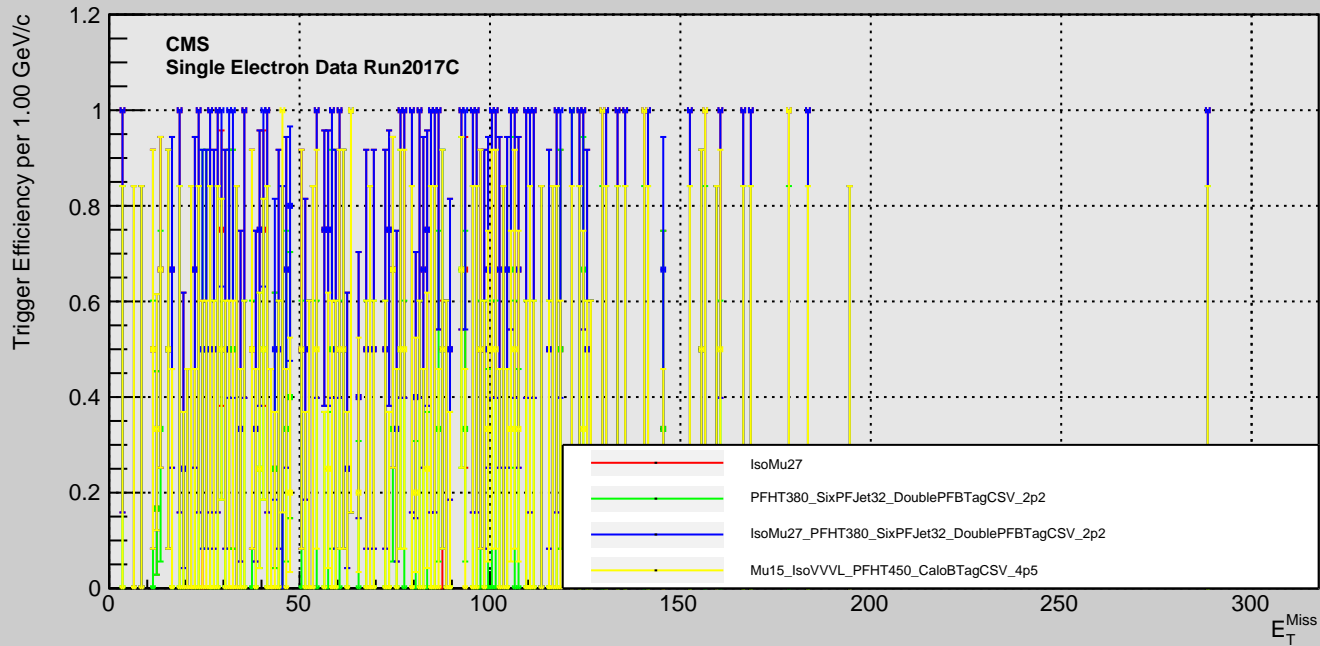




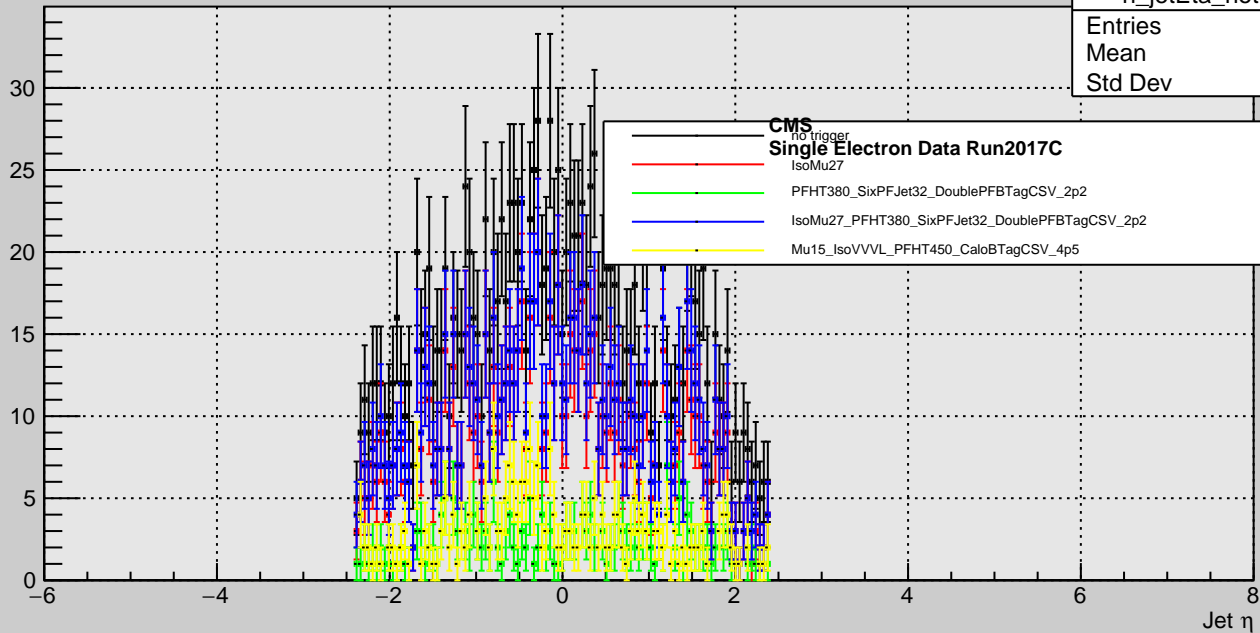
Number of Events per 1 GeV/c

h_metPt_notrigger	
Entries	251
Mean	72.09
Std Dev	42.58





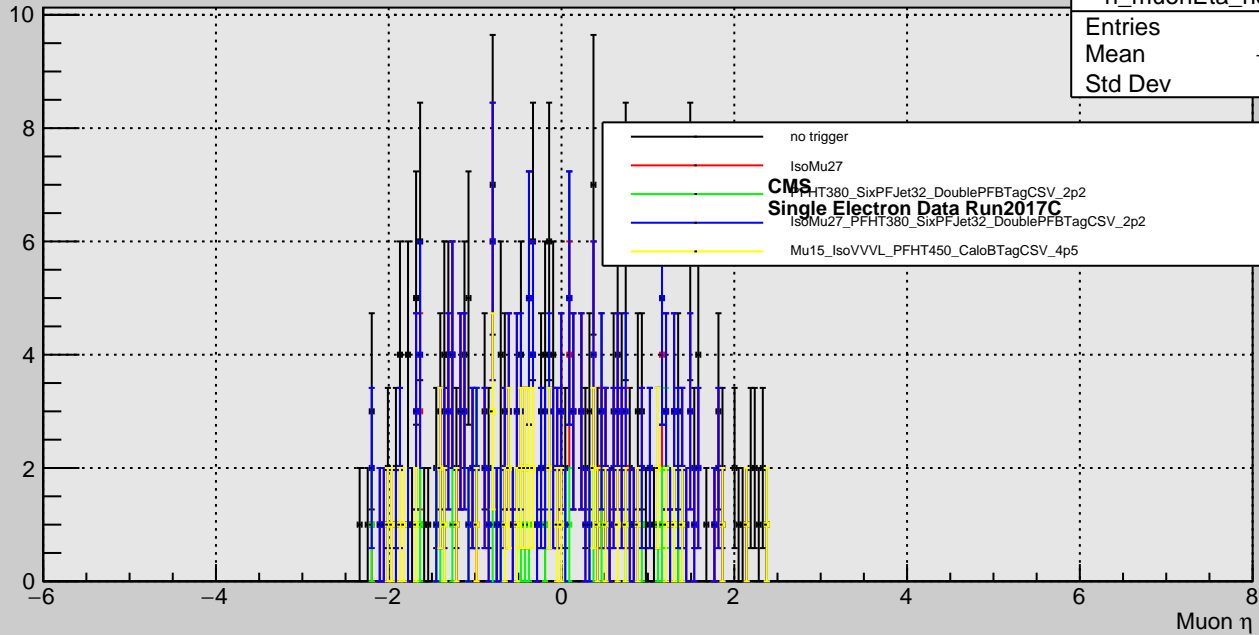
Number of Events per  $\delta\eta = 0.046$

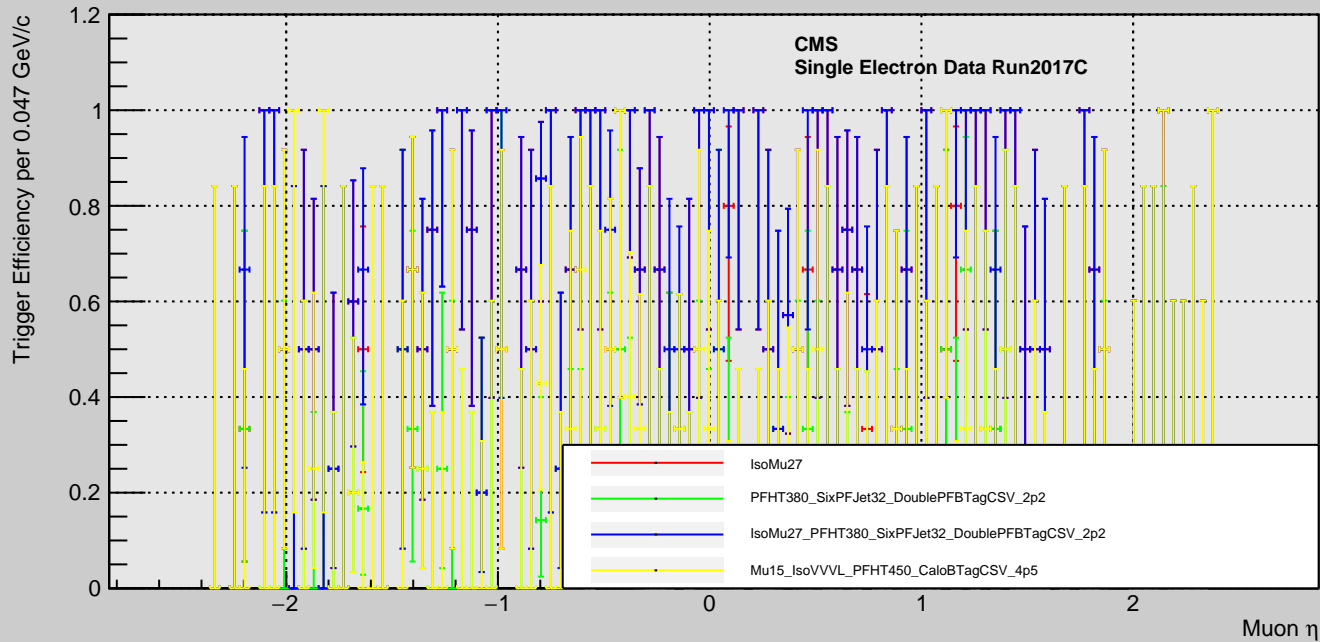


h\_jetEta\_notrigger

Entries	1572
Mean	-0.0774
Std Dev	1.203

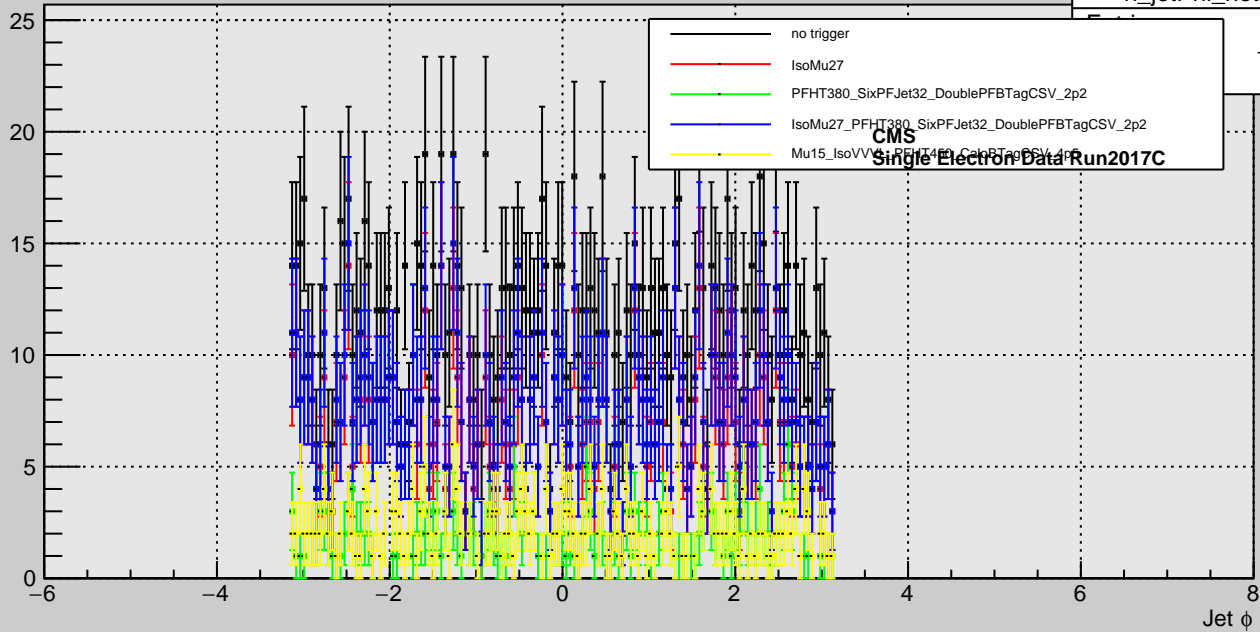
Number of Events per  $\delta\eta = 0.046$







Number of Events per  $\delta\phi = 0.046$



h\_jetPhi\_notrigger

1572

-0.03139

1.809

