

| <b>Signal region</b>  | <b>Control region</b>   |
|---|---|
| One muon (electron) with $p_T > 27(35)$ GeV   | Two leptons: $p_T > 20/20$ GeV ( $\mu\mu/e\mu$ )<br>or $p_T > 20/15$ GeV ( $ee/\mu e$ ) |
| No additional loose leptons   | No additional loose leptons   |
| Three or four b tagged jets<br>$p_T > 30$ GeV and $ \eta  < 2.4$  | Two b tagged jets<br>$p_T > 30$ GeV and $ \eta  < 2.4$                                  |
| One or more untagged jets<br>$p_T > 30$ GeV for $ \eta  < 2.4$ or<br>$p_T > 40$ GeV for $ \eta  \geq 2.4$ | One or more loose b tagged jets<br>$p_T > 30$ GeV and $ \eta  < 2.4$                    |
| $E_T^{\text{miss}} > 35(45)$ GeV for muons (electrons)  | $E_T^{\text{miss}} > 40$ GeV  |