

Cut		Unweighted yield	Weighted yield
$\sigma \cdot \mathcal{L}$		–	123.3
Total MC events		30000	–
Derivation skim		29755	122.2
$E_{\text{T}}^{\text{miss}} > 250 \text{ GeV}$		26606	109.2
$N_{\text{j}} \geq 4$		23395	95.8
$N_b \geq 2$		11651	47.1
Lepton veto		7627	30.7
$p_{\text{T}}^{j_4} > 40 \text{ GeV}$		6924	27.9
$p_{\text{T}}^{j_2} > 80 \text{ GeV}$		6898	27.8
$ \Delta\phi_{\text{min}}(\mathbf{p}_{\text{T},1-4}, \mathbf{p}_{\text{T}}^{\text{miss}}) > 0.4$		6000	24.1
Pass $E_{\text{T}}^{\text{miss}}$ trigger		6000	24.1
$\mathcal{S} > 5$		5994	24.1
$m_{\text{T}}^{b,\text{min}} > 50 \text{ GeV}$		5879	23.6
τ veto		5376	21.6
$m_{\text{T}}^{b,\text{min}} > 200 \text{ GeV}$		4721	19.1
$m_1^{R=1.2} > 120 \text{ GeV}$		4380	17.7
$m_2^{R=1.2} > 60 \text{ GeV}$		3035	12.2
$m_2^{R=1.2} < 120 \text{ GeV}$		831	3.3
$m_{\text{T}2,\chi^2} > 450 \text{ GeV}$		696	2.8
$m_1^{R=0.8} > 60 \text{ GeV}$		678	2.7
$\mathcal{S} > 25$		410	1.6
$j_1^{R=1.2}(b)$		393	1.6