Data

cutflow	The number of events (Single trigger)	The number of events (Compound trigger)
Trigger	202639180	76850212
Jet cleaning	202302890	76743740
Njets >= 2	193205510	75005508
NPhotons >= 1	44098255	37211972
Photon pT cut	11575203	22090737
Jet1 pT cut	11575203	20837871
Jet2 pT cut	11575203	13013218
y* < 0.75	7369609	8031090
2 b-tagged	52313	61987
mjj	2522549	1520114
2 b-tagged && mjj	15557	9015

MC background (1 ipb)

cutflow	The number of events (Single trigger)	The number of events (Compound trigger)
Total	38341.526 ± 5.581	38353.553 ± 5.647
Trigger	233.148197 ± 0.1222852828	310.1298617 ± 0.2197938513
Jet cleaning	232.9436357 ± 0.1222320395	309.8153068 ± 0.2196688426
Njets >= 2	174.2833212 ± 0.107884725	297.1421696 ± 0.2105927034
NPhotons >= 1	135.0081085 ± 0.09090703513	255.0768565 ± 0.1910235762
Photon pT cut	98.20166368 ± 0.04848224827	176.5869026 ± 0.1288162505
Jet1 pT cut	98.20166368 ± 0.04848224827	166.0112429 ± 0.1240634007

Jet2 pT cut	98.20166368 ± 0.04848224827	102.3478411 ± 0.09840023749
y* < 0.75	59.95544201 ± 0.03528299297	60.28954121 ± 0.07355563953
2 b-tagged	0.3441534227 ± 0.002955231572	0.3724795803 ± 0.005743611347
mjj	19.74084974 ± 0.01651717825	11.14898803 ± 0.03136295907
2 b-tagged && mjj	0.1060304854 ± 0.001897091412	0.0566089605 ± 0.002560155044

MC16a signal 250 GeV, g_q=0.2 (1 ipb)

cutflow	The number of events (Single trigger)	The number of events (Compound trigger)
Trigger	0.2227738947 ± 0.002378891849	0.3225336671 ± 0.002862593383
Jet cleaning	0.2226215601 ± 0.002378077949	0.3222797513 ± 0.002861466067
Njets >= 2	0.2070571035 ± 0.002293402851	0.3134438097 ± 0.002821954958
NPhotons >= 1	0.1767018139 ± 0.002118627905	0.2896020412 ± 0.002712472974
Photon pT cut	0.143842116 ± 0.001912638448	0.2841693163 ± 0.002688855494
Jet1 pT cut	0.143842116 ± 0.001912638448	0.2801482677 ± 0.002669758692
Jet2 pT cut	0.143842116 ± 0.001912638448	0.2192705125 ± 0.002361959073
y* < 0.75	0.1083968133 ± 0.001660392653	0.1773473918 ± 0.002124242107
2 b-tagged	0.008037619293 ± 0.0004401507252	0.01351407357 ± 0.0005726609449

mjj	0.08154225453 ± 0.001440136677	0.005827199309 ± 0.000385073748
2 b-tagged && mjj	0.007012449449 ± 0.0004106801299	0.00004786923455 ± 0.00003384876926

MC16a signal 550 GeV, g_q=0.2 (1 ipb)

cutflow	The number of events (Single trigger)	The number of events (Compound trigger)
Trigger	0.06822236627 ± 0.0006523153149	0.1010955349 ± 0.0007940718216
Jet cleaning	0.06817246228 ± 0.0006520766994	0.1010082066 ± 0.0007937287782
Njets >= 2	0.06636349857 ± 0.0006433671367	0.09974817187 ± 0.0007887625466
NPhotons >= 1	0.05632065609 ± 0.0005926909493	0.0908780247 ± 0.000752875805
Photon pT cut	0.04647777975 ± 0.0005387338863	0.08859505504 ± 0.0007439329981
Jet1 pT cut	0.04647777975 ± 0.0005387338863	0.08842027187 ± 0.0007431990884
Jet2 pT cut	0.04647777975 ± 0.0005387338863	0.08380419016 ± 0.0007235392833
y* < 0.75	0.03154822811 ± 0.0004438588811	0.05850090832 ± 0.00060452125
2 b-tagged	0.002461771481 ± 0.0001196913899	0.004952708725 ± 0.0001697993784
mjj	0.02918813791 ± 0.0004269373761	0.04956862711 ± 0.0005564615774
2 b-tagged && mjj	0.002432952227 ± 0.0001189951652	0.004522970365 ± 0.0001621744247