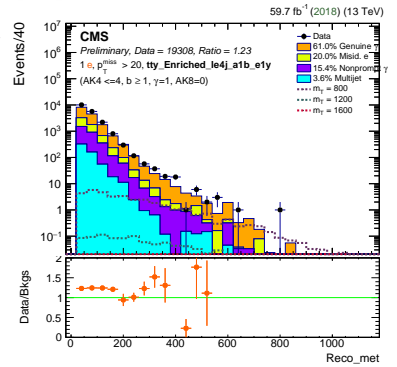
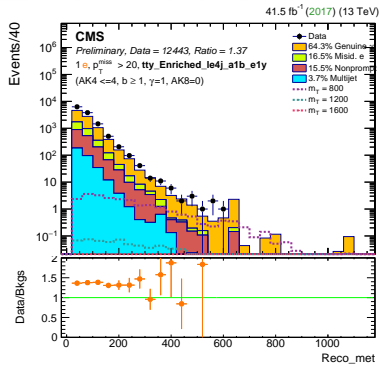
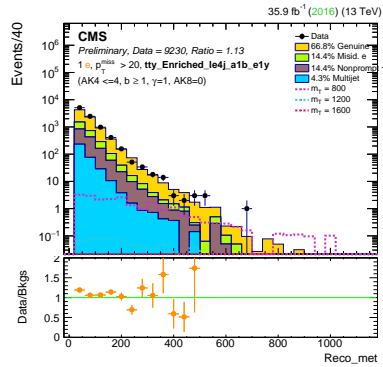
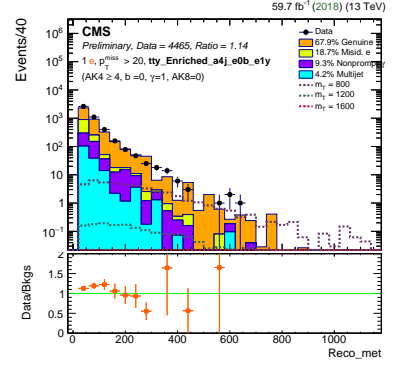
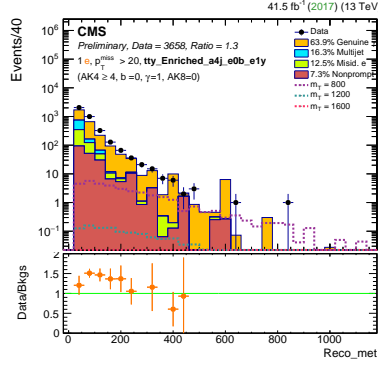
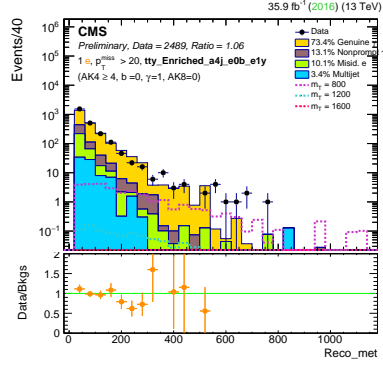


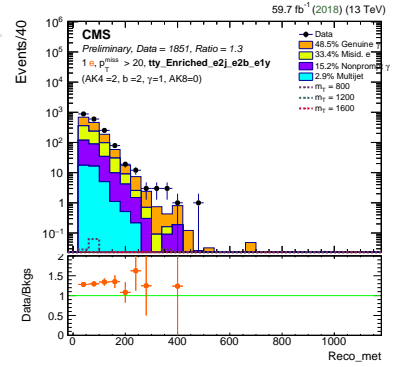
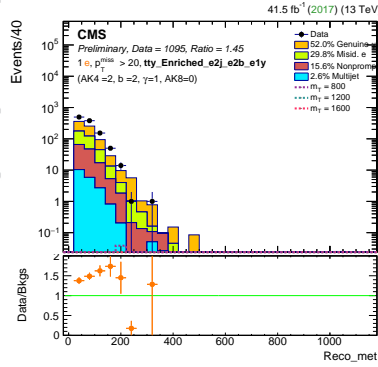
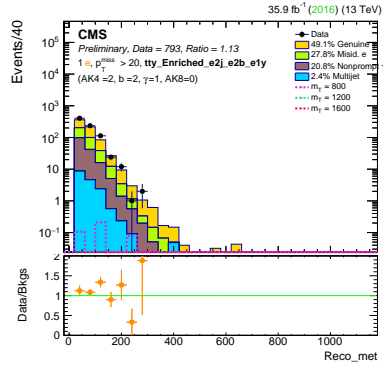
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	646.0	—	—	—	—	Data	840.0	—	—	—	—	Data	1418.0	—	—	—	—
$t\bar{t}\gamma$	441.5	99.5	0.3	0.1	0.1	$t\bar{t}\gamma$	482.4	99.5	0.3	0.2	0.1	$t\bar{t}\gamma$	799.3	99.2	0.4	0.3	0.1
$t/\bar{t}\bar{t}$	203.7	22.3	42.0	22.1	13.6	$t/\bar{t}\bar{t}$	243.4	19.4	45.8	21.6	13.2	$t/\bar{t}\bar{t}$	460.6	18.8	44.8	25.7	10.6
$DY + jets$	10.7	0.0	0.0	100.0	0.0	$DY + jets$	11.3	0.0	0.0	22.8	77.2	$DY + jets$	27.0	0.0	0.0	91.3	8.7
$Z + \gamma$	6.1	93.8	0.0	0.0	6.2	$Z + \gamma$	8.6	96.6	0.0	3.4	0.0	Others	11.8	61.9	11.9	23.9	2.2
Others	5.3	63.4	10.1	21.8	4.6	Others	6.0	69.4	10.8	16.9	2.8	$Z + \gamma$	7.8	99.4	0.0	0.6	0.0
QCD	3.4	100.0	0.0	0.0	0.0	QCD	2.9	61.2	38.8	0.0	0.0	$W + \gamma$	5.8	100.0	0.0	0.0	0.0
$W + \gamma$	1.8	100.0	0.0	0.0	0.0	$W + jets$	0	0	0	0	0	$W + \gamma$	2.0	0.0	0.0	0.0	100.0
$W + jets$	0.6	0.0	100.0	0.0	0.0	$W + \gamma$	0	0	0	0	0	QCD	1.4	100.0	0.0	0.0	0.0
Bkgs	673.2	74.1	13.1	8.6	4.3	Bkgs	754.6	71.7	15.2	7.6	5.5	Bkgs	1315.6	68.6	16.0	11.3	4.1
$m_T = 800$	4.6	0.0	100.0	0.0	0.0	$m_T = 800$	5.0	0.0	99.6	0.4	0.0	$m_T = 800$	7.3	0.0	100.0	0.0	0.0
$m_T = 1200$	0.2	0.0	100.0	0.0	0.0	$m_T = 1200$	0.1	0.4	99.6	0.0	0.0	$m_T = 1200$	0.2	0.0	99.4	0.0	0.6
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	-0.1	100.1	0.0	0.0
Data/Bkgs	0.96	—	—	—	—	Data/Bkgs	1.11	—	—	—	—	Data/Bkgs	1.08	—	—	—	—



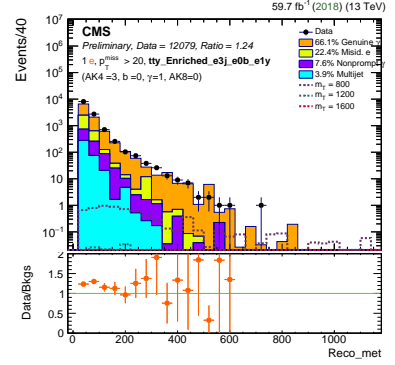
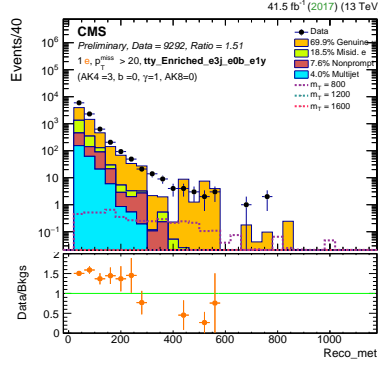
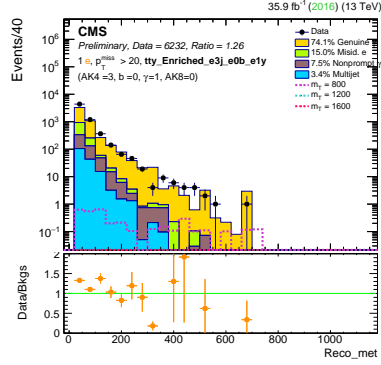
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	9230.0	—	—	—	—	Data	12443.0	—	—	—	—	Data	19308.0	—	—	—	—
$t\bar{t}\gamma$	3388.9	99.3	0.4	0.3	0.1	$t\bar{t}\gamma$	3747.3	99.2	0.4	0.3	0.1	$t\bar{t}\gamma$	5865.3	99.0	0.4	0.4	0.1
$t/\bar{t}\bar{t}$	2636.6	25.0	39.1	27.8	8.2	$t/\bar{t}\bar{t}$	3130.4	24.8	39.8	27.2	8.2	$t/\bar{t}\bar{t}$	5678.1	22.3	38.1	32.2	7.4
$W + \gamma$	745.4	100.0	0.0	0.0	0.0	$W + \gamma$	737.7	99.0	0.4	0.6	0.0	$DY + jets$	1356.3	1.2	3.2	91.2	4.5
$DY + jets$	470.6	1.5	5.1	88.2	5.2	$DY + jets$	674.0	1.3	2.0	90.8	5.8	$W + \gamma$	1302.7	100.0	0.0	0.0	0.0
$Z + \gamma$	418.3	98.3	0.2	1.3	0.2	$Z + \gamma$	423.8	98.7	0.1	1.3	0.0	$Z + \gamma$	686.3	97.3	0.0	2.4	0.2
QCD	363.2	63.4	12.3	0.0	24.3	QCD	202.1	72.8	26.4	0.0	0.7	QCD	429.2	95.8	2.6	0.0	1.7
$W + jets$	76.8	0.0	74.5	1.1	24.4	$W + jets$	102.1	0.0	68.4	2.1	29.4	$W + jets$	225.2	0.0	67.6	0.0	32.4
Others	71.2	63.4	8.9	23.4	4.4	Others	89.5	68.0	9.4	19.3	3.3	Others	170.4	63.4	9.7	23.9	3.0
Bkgs	8171.1	66.8	14.4	14.4	4.3	Bkgs	9106.9	64.3	15.5	16.5	3.7	Bkgs	15713.5	61.0	15.4	20.0	3.6
$m_T = 800$	22.0	0.0	100.0	0.0	0.0	$m_T = 800$	24.0	0.0	99.9	0.1	0.0	$m_T = 800$	35.1	0.1	99.6	0.3	0.0
$m_T = 1200$	0.7	0.0	99.0	1.0	0.0	$m_T = 1200$	0.7	0.1	99.8	0.1	0.0	$m_T = 1200$	1.0	0.0	99.7	0.2	0.1
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.2	99.6	0.2	0.1	$m_T = 1600$	0.1	0.2	99.8	0.0	0.0
Data/Bkgs	1.13	—	—	—	—	Data/Bkgs	1.37	—	—	—	—	Data/Bkgs	1.23	—	—	—	—



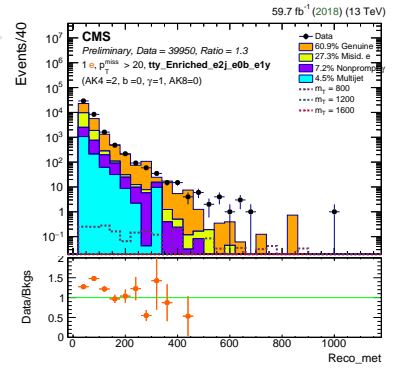
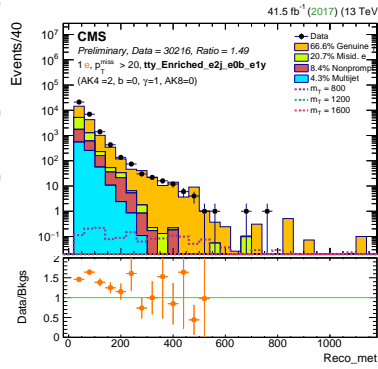
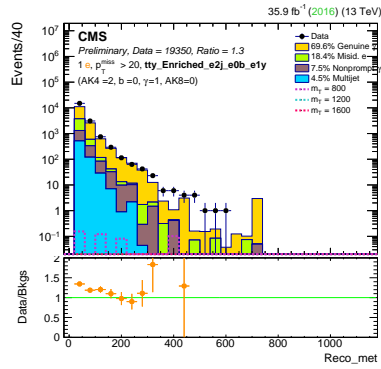
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	2489.0	—	—	—	—	Data	3658.0	—	—	—	—	Data	4465.0	—	—	—	—
$W + \gamma$	731.4	99.0	0.8	0.2	0.0	$W + \gamma$	801.3	99.8	0.0	0.0	0.2	$W + \gamma$	1321.6	99.9	0.0	0.0	0.1
QCD	569.5	71.6	25.6	0.5	2.2	QCD	641.0	44.2	0.6	0.0	55.1	$DY + jets$	727.2	1.5	5.7	88.7	4.1
$t\bar{t}\gamma$	313.4	99.6	0.2	0.1	0.1	$DY + jets$	372.5	1.6	7.1	80.4	10.9	QCD	481.2	86.3	13.4	0.0	0.3
$DY + jets$	226.2	0.0	8.2	85.3	6.5	$t\bar{t}\gamma$	332.9	99.5	0.3	0.1	0.1	$t\bar{t}\gamma$	436.2	99.3	0.4	0.2	0.1
$Z + \gamma$	200.3	97.4	0.3	2.0	0.4	$Z + \gamma$	249.2	96.4	0.2	2.9	0.6	$Z + \gamma$	306.2	97.7	-0.0	2.2	0.0
$t/\bar{t}$	166.9	25.9	47.5	15.7	10.9	$t/\bar{t}$	190.7	25.2	47.4	16.7	10.7	$t/\bar{t}$	293.9	22.7	47.6	18.8	10.8
$W + jets$	80.7	0.0	61.0	0.0	39.0	$W + jets$	112.9	0.0	67.5	0.0	32.5	$W + jets$	199.6	0.0	52.0	0.0	48.0
Others	67.3	69.3	11.8	16.7	2.2	Others	103.9	79.7	5.5	12.0	2.8	Others	154.6	75.5	7.2	15.2	2.1
Bkgs	2355.7	73.4	13.1	10.1	3.4	Bkgs	2804.4	63.9	7.3	12.5	16.3	Bkgs	3920.5	67.9	9.3	18.7	4.2
$m_T = 800$	27.8	0.0	100.0	0.0	0.0	$m_T = 800$	35.0	0.1	99.9	0.0	0.0	$m_T = 800$	45.8	0.4	99.5	0.1	0.0
$m_T = 1200$	1.0	0.7	99.3	0.0	0.0	$m_T = 1200$	1.2	0.0	99.9	0.1	0.0	$m_T = 1200$	1.7	0.1	99.5	0.2	0.2
$m_T = 1600$	0.1	0.8	99.2	0.0	0.0	$m_T = 1600$	0.1	0.3	99.5	0.0	0.1	$m_T = 1600$	0.1	-0.2	100.1	0.1	-0.0
Data/Bkgs	1.06	—	—	—	—	Data/Bkgs	1.3	—	—	—	—	Data/Bkgs	1.14	—	—	—	—



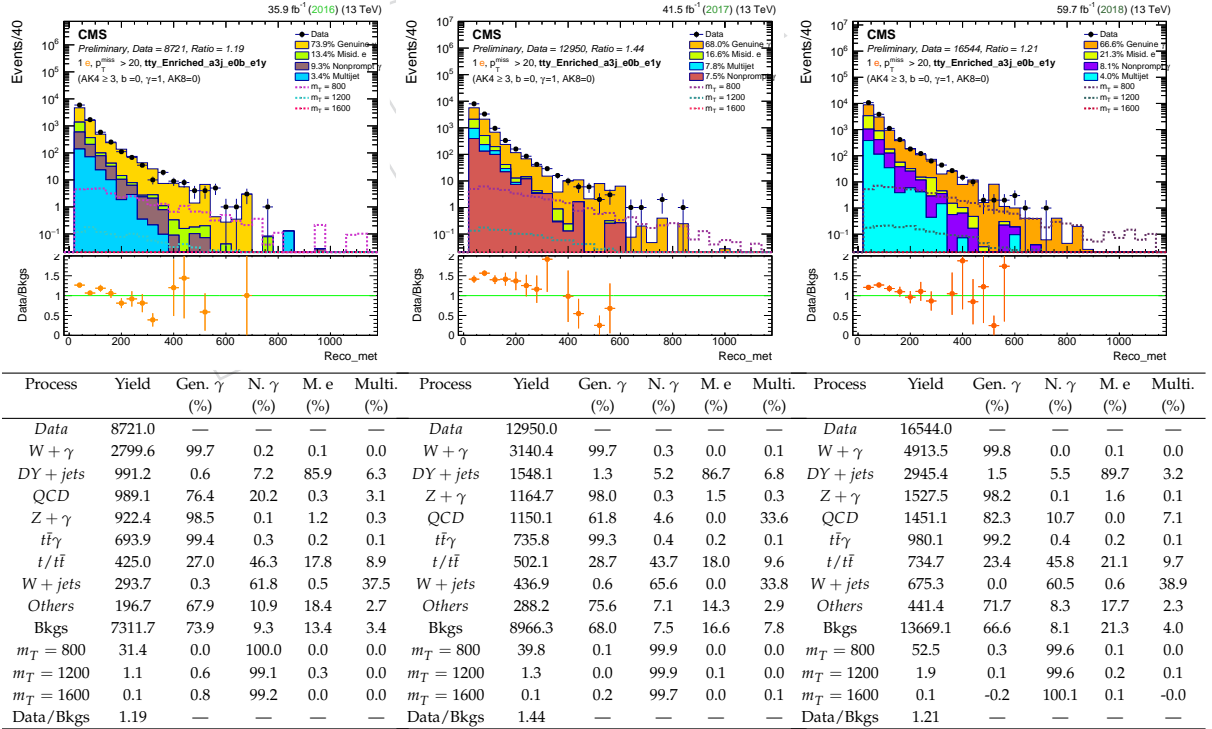
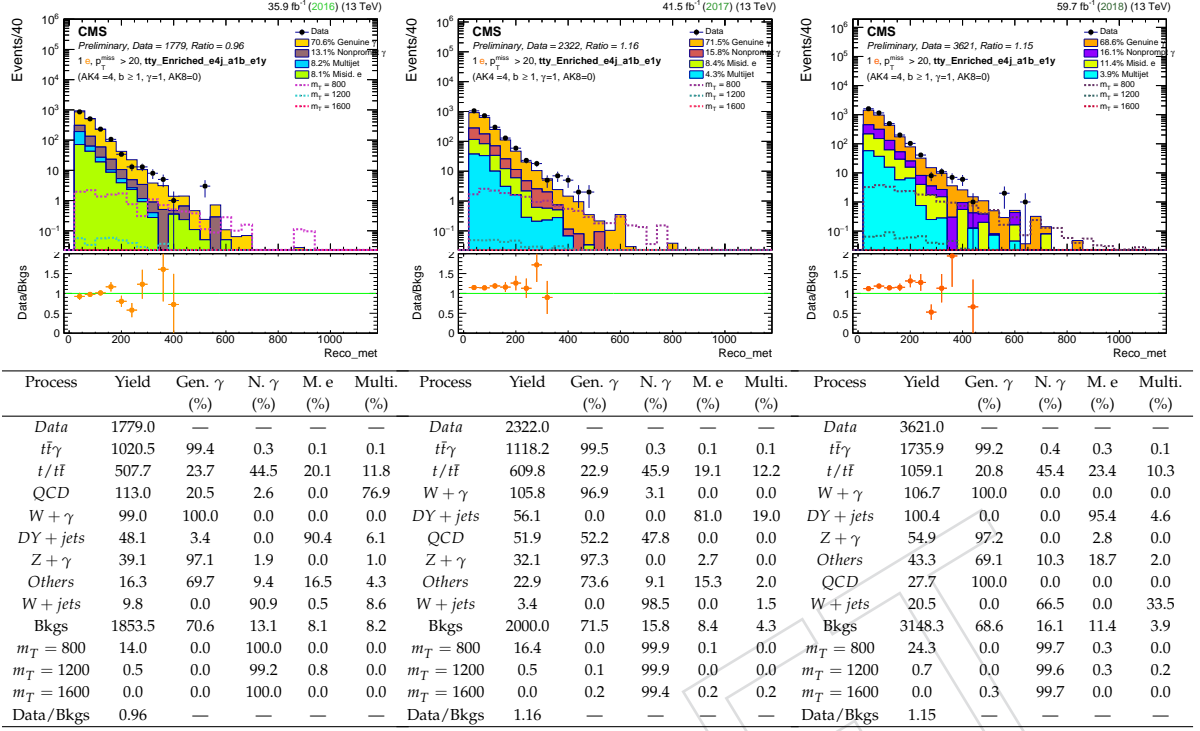
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	793.0	—	—	—	—	Data	1095.0	—	—	—	—	Data	1851.0	—	—	—	—
$t/\bar{t}$	336.4	19.8	30.8	44.6	4.7	$t/\bar{t}$	384.6	20.2	30.3	44.9	4.6	$t/\bar{t}$	795.2	19.9	26.5	49.1	4.5
$t\bar{t}\gamma$	253.7	98.9	0.4	0.6	0.1	$t\bar{t}\gamma$	282.0	98.7	0.4	0.8	0.2	$t\bar{t}\gamma$	477.3	98.6	0.4	0.9	0.1
$DY + jets$	43.5	0.0	4.1	95.8	0.0	$DY + jets$	50.9	0.0	0.0	96.5	3.5	$DY + jets$	80.4	0.0	4.0	96.0	0.0
QCD	36.3	1.5	98.5	0.0	0.0	$Z + \gamma$	17.3	99.6	0.0	0.4	0.0	$Z + \gamma$	29.1	98.4	0.0	1.6	0.0
$Z + \gamma$	22.4	100.0	0.0	0.0	0.0	$W + \gamma$	15.4	100.0	0.0	0.0	0.0	$W + \gamma$	17.8	100.0	0.0	0.0	0.0
Others	4.8	34.8	3.7	48.9	12.6	Others	3.9	62.7	5.9	29.4	2.0	QCD	11.2	100.0	0.0	0.0	0.0
$W + jets$	3.8	0.0	100.0	0.0	0.0	QCD	2.4	100.0	0.0	0.0	0.0	Others	8.4	54.0	9.0	36.2	0.7
$W + \gamma$	3.3	100.0	0.0	0.0	0.0	$W + jets$	0	0	0	0	0	$W + jets$	4.7	0.0	0.0	0.0	100.0
Bkgs	704.2	49.1	20.8	27.8	2.4	Bkgs	756.4	52.0	15.6	29.8	2.6	Bkgs	1424.0	48.5	15.2	33.4	2.9
$m_T = 800$	0.4	0.0	100.0	0.0	0.0	$m_T = 800$	0.0	0.0	100.0	0.0	0.0	$m_T = 800$	0.1	0.0	100.0	0.0	0.0
$m_T = 1200$	0.0	0.0	100.0	0.0	0.0	$m_T = 1200$	0.0	0.0	100.0	0.0	0.0	$m_T = 1200$	0.0	0.0	100.0	0.0	0.0
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0
Data/Bkgs	1.13	—	—	—	—	Data/Bkgs	1.45	—	—	—	—	Data/Bkgs	1.3	—	—	—	—

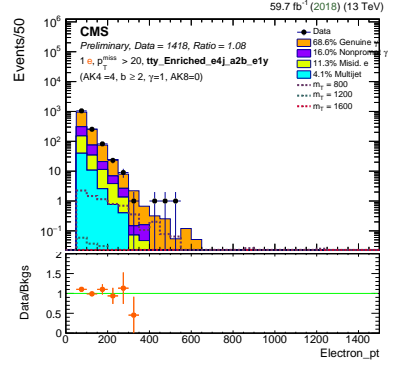
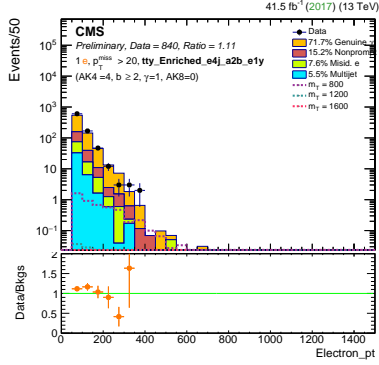
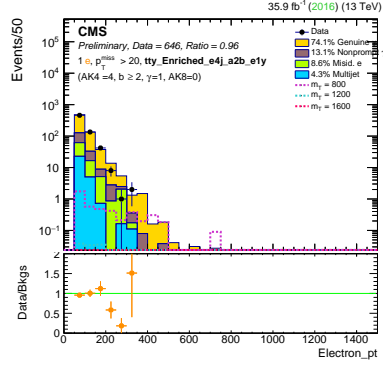


Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	6232.0	—	—	—	—	Data	9292.0	—	—	—	—	Data	12079.0	—	—	—	—
$W + \gamma$	2068.2	99.9	0.0	0.0	0.0	$W + \gamma$	2339.1	99.6	0.4	0.0	0.0	$W + \gamma$	3591.9	99.8	0.1	0.2	0.0
$DY + jets$	765.0	0.8	6.8	86.1	6.2	$DY + jets$	1175.6	1.2	4.6	88.7	5.5	$DY + jets$	2218.2	1.5	5.4	90.1	2.9
$Z + \gamma$	722.1	98.7	-0.0	0.9	0.3	$Z + \gamma$	915.6	98.4	0.3	1.1	0.2	$Z + \gamma$	1221.3	98.3	0.2	1.4	0.1
QCD	419.6	82.9	12.9	0.0	4.2	QCD	509.1	84.0	9.6	0.0	6.5	QCD	969.9	80.3	9.3	0.0	10.4
$t\bar{t}\gamma$	380.6	99.2	0.4	0.2	0.2	$t\bar{t}\gamma$	402.9	99.2	0.4	0.2	0.1	$t\bar{t}\gamma$	543.9	99.1	0.4	0.3	0.1
$t/\bar{t}$	258.2	27.8	45.6	19.1	7.5	$W + jets$	324.0	0.8	64.9	0.0	34.3	$W + jets$	475.8	0.0	64.1	0.8	35.1
$W + jets$	212.9	0.4	62.1	0.7	36.9	$t/\bar{t}$	311.3	30.8	41.4	18.8	9.0	$t/\bar{t}$	440.8	23.9	44.6	22.7	8.9
Others	129.4	67.2	10.5	19.4	3.0	Others	184.2	73.3	8.1	15.6	3.0	Others	286.8	69.7	8.8	19.1	2.5
Bkgs	4956.0	74.1	7.5	15.0	3.4	Bkgs	6161.9	69.9	7.6	18.5	4.0	Bkgs	9748.6	66.1	7.6	22.4	3.9
$m_T = 800$	3.6	0.0	100.0	0.0	0.0	$m_T = 800$	4.8	0.0	100.0	0.0	0.0	$m_T = 800$	6.7	0.0	100.0	0.0	0.0
$m_T = 1200$	0.1	0.0	96.9	3.1	0.0	$m_T = 1200$	0.1	0.0	100.0	0.0	0.0	$m_T = 1200$	0.2	0.0	100.0	0.0	0.0
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	-0.9	100.9	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0
Data/Bkgs	1.26	—	—	—	—	Data/Bkgs	1.51	—	—	—	—	Data/Bkgs	1.24	—	—	—	—

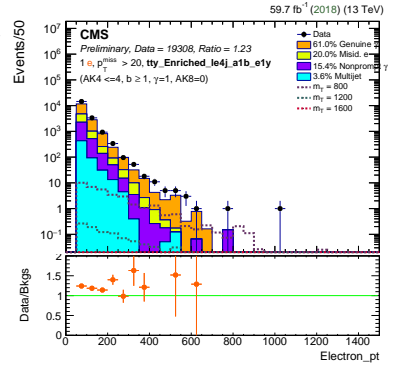
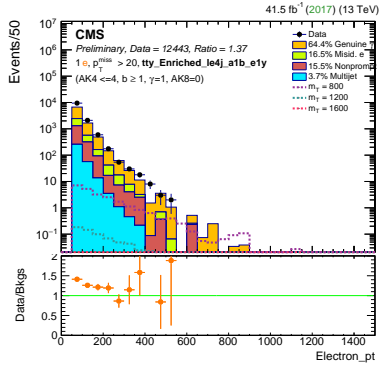
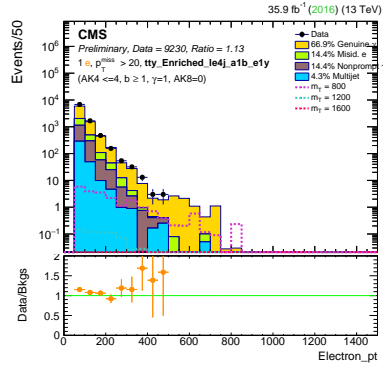


Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	19350.0	—	—	—	—	Data	30216.0	—	—	—	—	Data	39950.0	—	—	—	—
$W + \gamma$	5878.3	99.9	0.0	0.0	0.1	$W + \gamma$	7778.7	99.8	0.1	0.0	0.1	$W + \gamma$	10970.0	99.8	0.1	0.0	0.1
$DY + jets$	2899.8	1.1	6.9	87.3	4.7	$DY + jets$	4488.8	1.0	5.3	88.5	5.1	$DY + jets$	8848.5	1.4	4.6	90.3	3.7
$Z + \gamma$	2744.4	98.8	0.1	0.9	0.1	$Z + \gamma$	3757.7	98.5	0.1	1.1	0.2	$Z + \gamma$	5119.4	98.3	0.0	1.5	0.2
QCD	1373.2	72.6	12.2	0.2	15.0	QCD	1668.5	70.7	23.7	0.0	5.6	$W + jets$	1958.7	0.7	62.3	0.0	37.0
$W + jets$	809.8	0.0	65.4	0.4	34.3	$W + jets$	1310.7	0.0	62.8	0.2	37.0	QCD	1861.0	77.2	9.9	0.0	12.9
$t/\bar{t}$	480.5	33.6	37.3	22.3	6.8	$t/\bar{t}$	504.4	30.5	39.3	22.4	7.9	$t/\bar{t}$	766.7	24.8	40.7	27.0	7.5
$t\bar{t}\gamma$	435.4	99.2	0.4	0.3	0.1	$t\bar{t}\gamma$	471.9	99.2	0.4	0.3	0.1	$t\bar{t}\gamma$	655.5	99.1	0.5	0.4	0.1
Others	244.1	57.2	13.0	25.7	4.2	Others	348.2	65.0	12.9	19.1	2.9	Others	529.8	59.4	13.7	23.6	3.3
Bkgs	14865.4	69.6	7.5	18.4	4.5	Bkgs	20328.9	66.6	8.4	20.7	4.3	Bkgs	30709.6	60.9	7.2	27.3	4.5
$m_T = 800$	0.5	0.0	100.0	0.0	0.0	$m_T = 800$	1.5	1.5	98.5	0.0	0.0	$m_T = 800$	2.0	0.0	100.0	0.0	0.0
$m_T = 1200$	0.0	0.0	100.0	0.0	0.0	$m_T = 1200$	0.0	2.8	98.1	-1.0	0.0	$m_T = 1200$	0.1	0.0	98.1	1.9	0.0
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0
Data/Bkgs	1.3	—	—	—	—	Data/Bkgs	1.49	—	—	—	—	Data/Bkgs	1.3	—	—	—	—

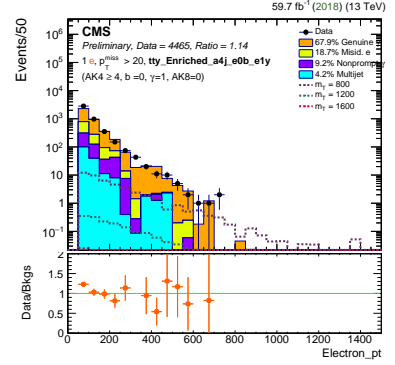
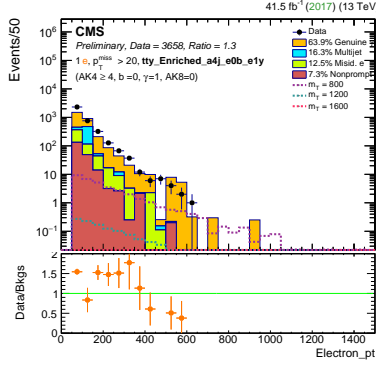
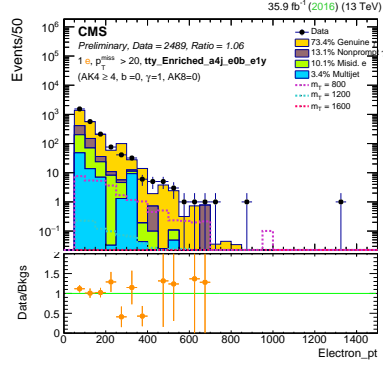




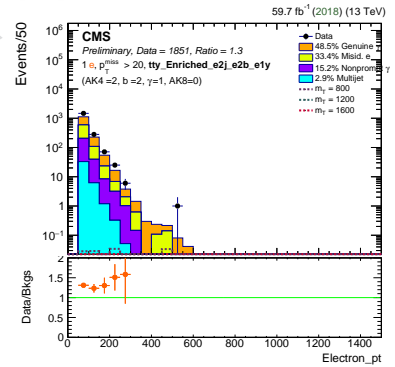
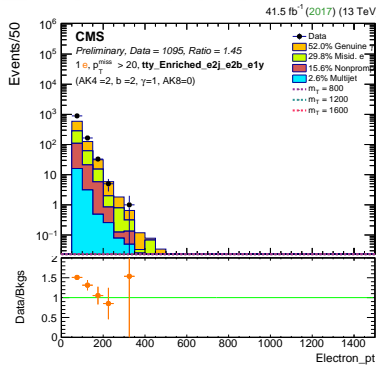
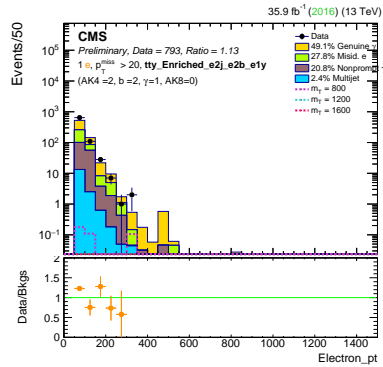
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	646.0	—	—	—	—	Data	840.0	—	—	—	—	Data	1418.0	—	—	—	—
$t\bar{t}\gamma$	441.5	99.5	0.3	0.1	0.1	$t\bar{t}\gamma$	482.4	99.5	0.3	0.2	0.1	$t\bar{t}\gamma$	799.3	99.2	0.4	0.3	0.1
$t/\bar{t}$	203.7	22.3	42.0	22.1	13.6	$t/\bar{t}$	243.4	19.4	45.8	21.6	13.2	$t/\bar{t}$	460.6	18.8	44.8	25.7	10.6
$DY + jets$	10.7	0.0	0.0	100.0	0.0	$DY + jets$	11.3	0.0	0.0	22.8	77.2	$DY + jets$	27.0	0.0	0.0	91.3	8.7
$Z + \gamma$	6.1	93.8	0.0	0.0	6.2	$Z + \gamma$	8.6	96.6	0.0	3.4	0.0	Others	11.8	61.9	11.9	23.9	2.2
Others	5.3	63.4	10.1	21.8	4.6	Others	6.0	69.4	10.8	16.9	2.8	$Z + \gamma$	7.8	99.4	0.0	0.6	0.0
QCD	3.4	100.0	0.0	0.0	0.0	QCD	2.9	61.2	38.8	0.0	0.0	$W + \gamma$	5.8	100.0	0.0	0.0	0.0
$W + \gamma$	1.8	100.0	0.0	0.0	0.0	$W + jets$	0	0	0	0	0	$W + jets$	2.0	0.0	0.0	0.0	100.0
$W + jets$	0.6	0.0	100.0	0.0	0.0	$W + \gamma$	0	0	0	0	0	QCD	1.4	100.0	0.0	0.0	0.0
Bkgs	673.2	74.1	13.1	8.6	4.3	Bkgs	754.6	71.7	15.2	7.6	5.5	Bkgs	1315.6	68.6	16.0	11.3	4.1
$m_T = 800$	4.6	0.0	100.0	0.0	0.0	$m_T = 800$	5.0	0.0	99.6	0.4	0.0	$m_T = 800$	7.3	0.0	100.0	0.0	0.0
$m_T = 1200$	0.2	0.0	100.0	0.0	0.0	$m_T = 1200$	0.1	0.4	99.6	0.0	0.0	$m_T = 1200$	0.2	0.0	99.4	0.0	0.6
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	-0.1	100.1	0.0	0.0
Data/Bkgs	0.96	—	—	—	—	Data/Bkgs	1.11	—	—	—	—	Data/Bkgs	1.08	—	—	—	—



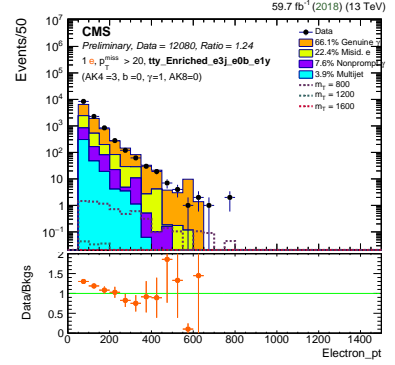
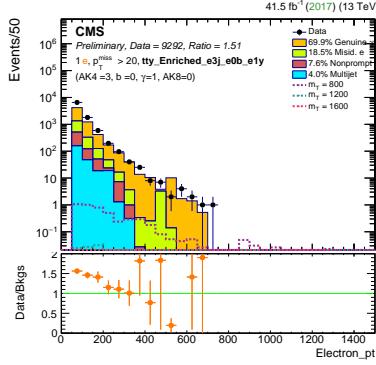
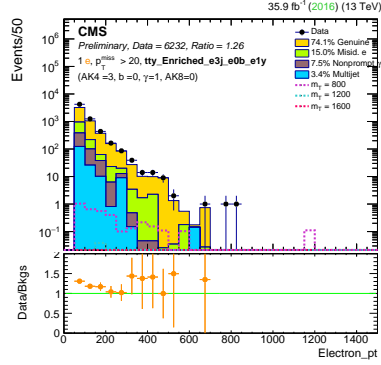
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	9230.0	—	—	—	—	Data	12443.0	—	—	—	—	Data	19308.0	—	—	—	—
$t\bar{t}\gamma$	3395.3	99.3	0.4	0.3	0.1	$t\bar{t}\gamma$	3750.1	99.2	0.4	0.3	0.1	$t\bar{t}\gamma$	5866.9	99.0	0.4	0.4	0.1
$t/\bar{t}$	2636.6	25.0	39.1	27.8	8.2	$t/\bar{t}$	3130.4	24.8	39.8	27.2	8.2	$t/\bar{t}$	5678.1	22.3	38.1	32.2	7.4
$W + \gamma$	745.4	100.0	0.0	0.0	0.0	$W + \gamma$	737.7	99.0	0.4	0.6	0.0	$DY + jets$	1356.3	1.2	3.2	91.2	4.5
$DY + jets$	470.6	1.5	5.1	88.2	5.2	$DY + jets$	674.0	1.3	2.0	90.8	5.8	$W + \gamma$	1302.7	100.0	0.0	0.0	0.0
$Z + \gamma$	418.3	98.3	0.2	1.3	0.2	$Z + \gamma$	423.8	98.7	0.1	1.3	0.0	$Z + \gamma$	686.3	97.3	0.0	2.4	0.2
QCD	363.2	63.4	12.3	0.0	24.3	QCD	202.1	72.8	26.4	0.0	0.7	QCD	429.2	95.8	2.6	0.0	1.7
$W + jets$	76.8	0.0	74.5	1.1	24.4	$W + jets$	102.1	0.0	68.4	2.1	29.4	$W + jets$	225.2	0.0	67.6	0.0	32.4
Others	71.2	63.4	8.9	23.4	4.4	Others	89.5	68.0	9.4	19.3	3.3	Others	170.4	63.4	9.7	23.9	3.0
Bkgs	8177.4	66.9	14.4	14.4	4.3	Bkgs	9109.7	64.4	15.5	16.5	3.7	Bkgs	15715.1	61.0	15.4	20.0	3.6
$m_T = 800$	22.0	0.0	100.0	0.0	0.0	$m_T = 800$	24.0	0.0	99.9	0.1	0.0	$m_T = 800$	35.1	0.1	99.6	0.3	0.0
$m_T = 1200$	0.7	0.0	99.0	1.0	0.0	$m_T = 1200$	0.7	0.1	99.8	0.1	0.0	$m_T = 1200$	1.0	0.0	99.7	0.2	0.1
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.2	99.6	0.2	0.1	$m_T = 1600$	0.1	0.2	99.8	0.0	0.0
Data/Bkgs	1.13	—	—	—	—	Data/Bkgs	1.37	—	—	—	—	Data/Bkgs	1.23	—	—	—	—



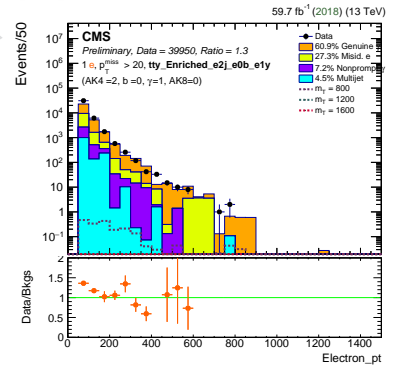
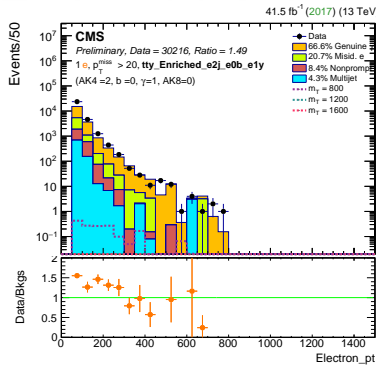
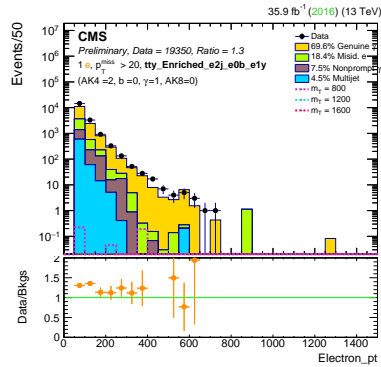
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	2489.0	—	—	—	—	Data	3658.0	—	—	—	—	Data	4465.0	—	—	—	—
$W + \gamma$	731.4	99.0	0.8	0.2	0.0	$W + \gamma$	801.3	99.8	0.0	0.0	0.2	$W + \gamma$	1321.6	99.9	0.0	0.0	0.1
QCD	569.5	71.6	25.6	0.5	2.2	QCD	641.0	44.2	0.6	0.0	55.1	$DY + jets$	727.2	1.5	5.7	88.7	4.1
$t\bar{t}\gamma$	313.4	99.6	0.2	0.1	0.1	$DY + jets$	372.5	1.6	7.1	80.4	10.9	QCD	481.2	86.3	13.4	0.0	0.3
$DY + jets$	226.2	0.0	8.2	85.3	6.5	$t\bar{t}\gamma$	332.9	99.5	0.3	0.1	0.1	$t\bar{t}\gamma$	436.2	99.3	0.4	0.2	0.1
$Z + \gamma$	200.3	97.4	0.3	2.0	0.4	$Z + \gamma$	249.2	96.4	0.2	2.9	0.6	$Z + \gamma$	306.2	97.7	-0.0	2.2	0.0
$t/\bar{t}$	166.9	25.9	47.5	15.7	10.9	$t/\bar{t}$	190.7	25.2	47.4	16.7	10.7	$t/\bar{t}$	293.9	22.7	47.6	18.8	10.8
$W + jets$	80.7	0.0	61.0	0.0	39.0	$W + jets$	112.9	0.0	67.5	0.0	32.5	$W + jets$	199.6	0.0	52.0	0.0	48.0
Others	67.3	69.3	11.8	16.7	2.2	Others	103.9	79.7	5.5	12.0	2.8	Others	154.7	75.5	7.2	15.2	2.1
Bkgs	2355.7	73.4	13.1	10.1	3.4	Bkgs	2804.4	63.9	7.3	12.5	16.3	Bkgs	3920.6	67.9	9.2	18.7	4.2
$m_T = 800$	27.8	0.0	100.0	0.0	0.0	$m_T = 800$	35.1	0.1	99.9	0.0	0.0	$m_T = 800$	46.0	0.4	99.5	0.1	0.0
$m_T = 1200$	1.0	0.7	99.3	0.0	0.0	$m_T = 1200$	1.2	0.0	99.9	0.1	0.0	$m_T = 1200$	1.7	0.1	99.5	0.2	0.2
$m_T = 1600$	0.1	0.8	99.2	0.0	0.0	$m_T = 1600$	0.1	0.3	99.6	0.0	0.1	$m_T = 1600$	0.1	-0.2	100.1	0.1	-0.0
Data/Bkgs	1.06	—	—	—	—	Data/Bkgs	1.3	—	—	—	—	Data/Bkgs	1.14	—	—	—	—



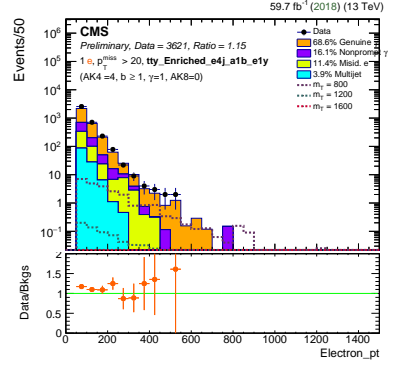
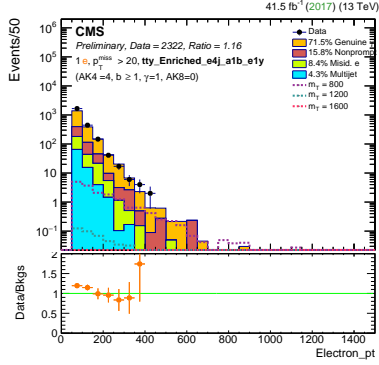
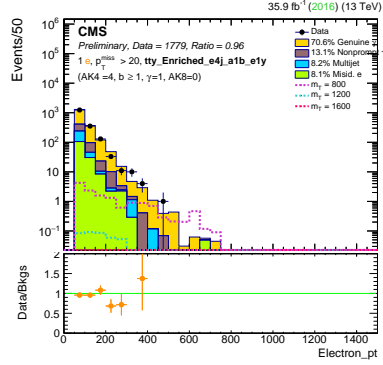
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	793.0	—	—	—	—	Data	1095.0	—	—	—	—	Data	1851.0	—	—	—	—
$t/\bar{t}$	336.4	19.8	30.8	44.6	4.7	$t/\bar{t}$	384.6	20.2	30.3	44.9	4.6	$t/\bar{t}$	795.2	19.9	26.5	49.1	4.5
$t\bar{t}\gamma$	253.7	98.9	0.4	0.6	0.1	$t\bar{t}\gamma$	282.0	98.7	0.4	0.8	0.2	$t\bar{t}\gamma$	477.3	98.6	0.4	0.9	0.1
$DY + jets$	43.5	0.0	4.1	95.8	0.0	$DY + jets$	50.9	0.0	0.0	96.5	3.5	$DY + jets$	80.4	0.0	4.0	96.0	0.0
QCD	36.3	1.5	98.5	0.0	0.0	$Z + \gamma$	17.3	99.6	0.0	0.4	0.0	$Z + \gamma$	29.1	98.4	0.0	1.6	0.0
$Z + \gamma$	22.4	100.0	0.0	0.0	0.0	$W + \gamma$	15.4	100.0	0.0	0.0	0.0	$W + \gamma$	17.8	100.0	0.0	0.0	0.0
Others	4.8	34.8	3.7	48.9	12.6	Others	3.9	62.7	5.9	29.4	2.0	QCD	11.2	100.0	0.0	0.0	0.0
$W + jets$	3.8	0.0	100.0	0.0	0.0	QCD	2.4	100.0	0.0	0.0	0.0	Others	8.4	54.0	9.0	36.2	0.7
$W + \gamma$	3.3	100.0	0.0	0.0	0.0	$W + jets$	0	0	0	0	0	$W + jets$	4.7	0.0	0.0	0.0	100.0
Bkgs	704.2	49.1	20.8	27.8	2.4	Bkgs	756.4	52.0	15.6	29.8	2.6	Bkgs	1424.0	48.5	15.2	33.4	2.9
$m_T = 800$	0.4	0.0	100.0	0.0	0.0	$m_T = 800$	0.0	0.0	100.0	0.0	0.0	$m_T = 800$	0.1	0.0	100.0	0.0	0.0
$m_T = 1200$	0.0	0.0	100.0	0.0	0.0	$m_T = 1200$	0.0	0.0	100.0	0.0	0.0	$m_T = 1200$	0.0	0.0	100.0	0.0	0.0
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0
Data/Bkgs	1.13	—	—	—	—	Data/Bkgs	1.45	—	—	—	—	Data/Bkgs	1.3	—	—	—	—



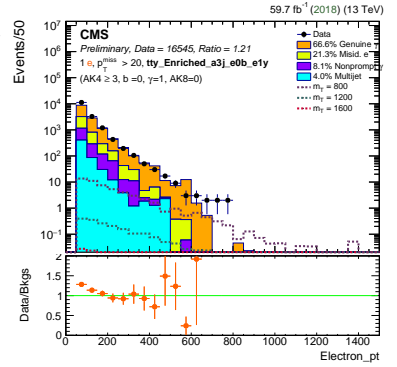
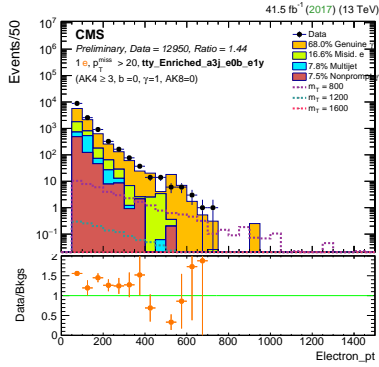
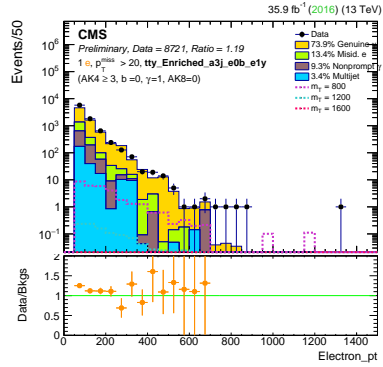
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	6232.0	—	—	—	—	Data	9292.0	—	—	—	—	Data	12080.0	—	—	—	—
$W + \gamma$	2068.2	99.9	0.0	0.0	0.0	$W + \gamma$	2339.1	99.6	0.4	0.0	0.0	$W + \gamma$	3591.9	99.8	0.1	0.2	0.0
$DY + jets$	765.0	0.8	6.8	86.1	6.2	$DY + jets$	1175.6	1.2	4.6	88.7	5.5	$DY + jets$	2218.2	1.5	5.4	90.1	2.9
$Z + \gamma$	722.1	98.7	-0.0	0.9	0.3	$Z + \gamma$	915.6	98.4	0.3	1.1	0.2	$Z + \gamma$	1221.3	98.3	0.2	1.4	0.1
QCD	419.6	82.9	12.9	0.0	4.2	QCD	509.1	84.0	9.6	0.0	6.5	QCD	969.9	80.3	9.3	0.0	10.4
$t\bar{t}\gamma$	380.6	99.2	0.4	0.2	0.2	$t\bar{t}\gamma$	402.9	99.2	0.4	0.2	0.1	$t\bar{t}\gamma$	543.9	99.1	0.4	0.3	0.1
$t/\bar{t}$	258.2	27.8	45.6	19.1	7.5	$W + jets$	324.0	0.8	64.9	0.0	34.3	$W + jets$	475.8	0.0	64.1	0.8	35.1
$W + jets$	212.9	0.4	62.1	0.7	36.9	$t/\bar{t}$	311.3	30.8	41.4	18.8	9.0	$t/\bar{t}$	440.8	23.9	44.6	22.7	8.9
Others	129.4	67.2	10.5	19.4	3.0	Others	184.2	73.3	8.1	15.6	3.0	Others	286.8	69.7	8.8	19.1	2.5
Bkgs	4956.0	74.1	7.5	15.0	3.4	Bkgs	6161.9	69.9	7.6	18.5	4.0	Bkgs	9748.6	66.1	7.6	22.4	3.9
$m_T = 800$	3.6	0.0	100.0	0.0	0.0	$m_T = 800$	4.8	0.0	100.0	0.0	0.0	$m_T = 800$	6.7	0.0	100.0	0.0	0.0
$m_T = 1200$	0.1	0.0	96.9	3.1	0.0	$m_T = 1200$	0.1	0.0	100.0	0.0	0.0	$m_T = 1200$	0.2	0.0	100.0	0.0	0.0
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	-0.9	100.9	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0
Data/Bkgs	1.26	—	—	—	—	Data/Bkgs	1.51	—	—	—	—	Data/Bkgs	1.24	—	—	—	—



Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	19350.0	—	—	—	—	Data	30216.0	—	—	—	—	Data	39950.0	—	—	—	—
$W + \gamma$	5878.3	99.9	0.0	0.0	0.1	$W + \gamma$	7778.7	99.8	0.1	0.0	0.1	$W + \gamma$	10970.0	99.8	0.1	0.0	0.1
$DY + jets$	2899.8	1.1	6.9	87.3	4.7	$DY + jets$	4488.8	1.0	5.3	88.5	5.1	$DY + jets$	8848.5	1.4	4.6	90.3	3.7
$Z + \gamma$	2744.4	98.8	0.1	0.9	0.1	$Z + \gamma$	3757.7	98.5	0.1	1.1	0.2	$Z + \gamma$	5119.4	98.3	0.0	1.5	0.2
QCD	1373.2	72.6	12.2	0.2	15.0	QCD	1668.5	70.7	23.7	0.0	5.6	$W + jets$	1958.7	0.7	62.3	0.0	37.0
$W + jets$	809.8	0.0	65.4	0.4	34.3	$W + jets$	1310.7	0.0	62.8	0.2	37.0	QCD	1861.0	77.2	9.9	0.0	12.9
$t/\bar{t}$	480.5	33.6	37.3	22.3	6.8	$t/\bar{t}$	504.4	30.5	39.3	22.4	7.9	$t/\bar{t}$	766.7	24.8	40.7	27.0	7.5
$t\bar{t}\gamma$	435.4	99.2	0.4	0.3	0.1	$t\bar{t}\gamma$	471.9	99.2	0.4	0.3	0.1	$t\bar{t}\gamma$	655.5	99.1	0.5	0.4	0.1
Others	244.1	57.2	13.0	25.7	4.2	Others	348.2	65.0	12.9	19.1	2.9	Others	529.8	59.4	13.7	23.6	3.3
Bkgs	14865.4	69.6	7.5	18.4	4.5	Bkgs	20328.9	66.6	8.4	20.7	4.3	Bkgs	30709.6	60.9	7.2	27.3	4.5
$m_T = 800$	0.5	0.0	100.0	0.0	0.0	$m_T = 800$	1.6	1.4	98.6	0.0	0.0	$m_T = 800$	2.0	0.0	100.0	0.0	0.0
$m_T = 1200$	0.0	0.0	100.0	0.0	0.0	$m_T = 1200$	0.0	2.8	98.1	-1.0	0.0	$m_T = 1200$	0.1	0.0	98.0	2.0	0.0
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0
Data/Bkgs	1.3	—	—	—	—	Data/Bkgs	1.49	—	—	—	—	Data/Bkgs	1.3	—	—	—	—

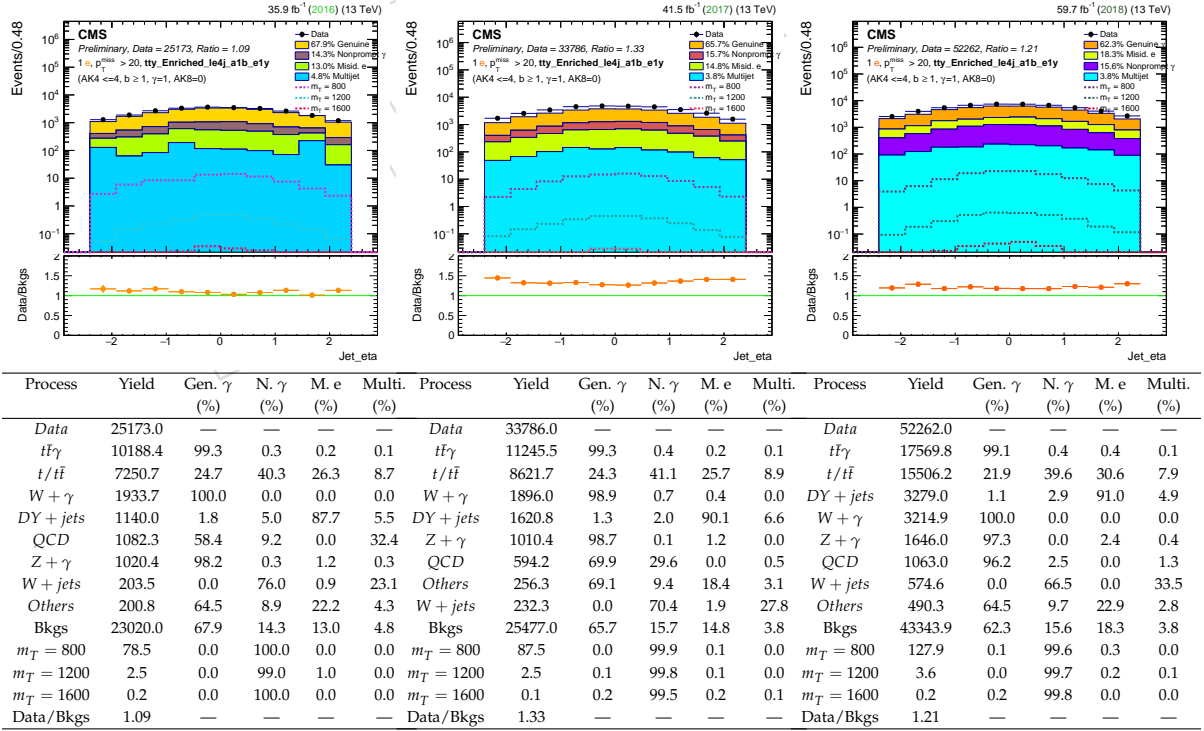
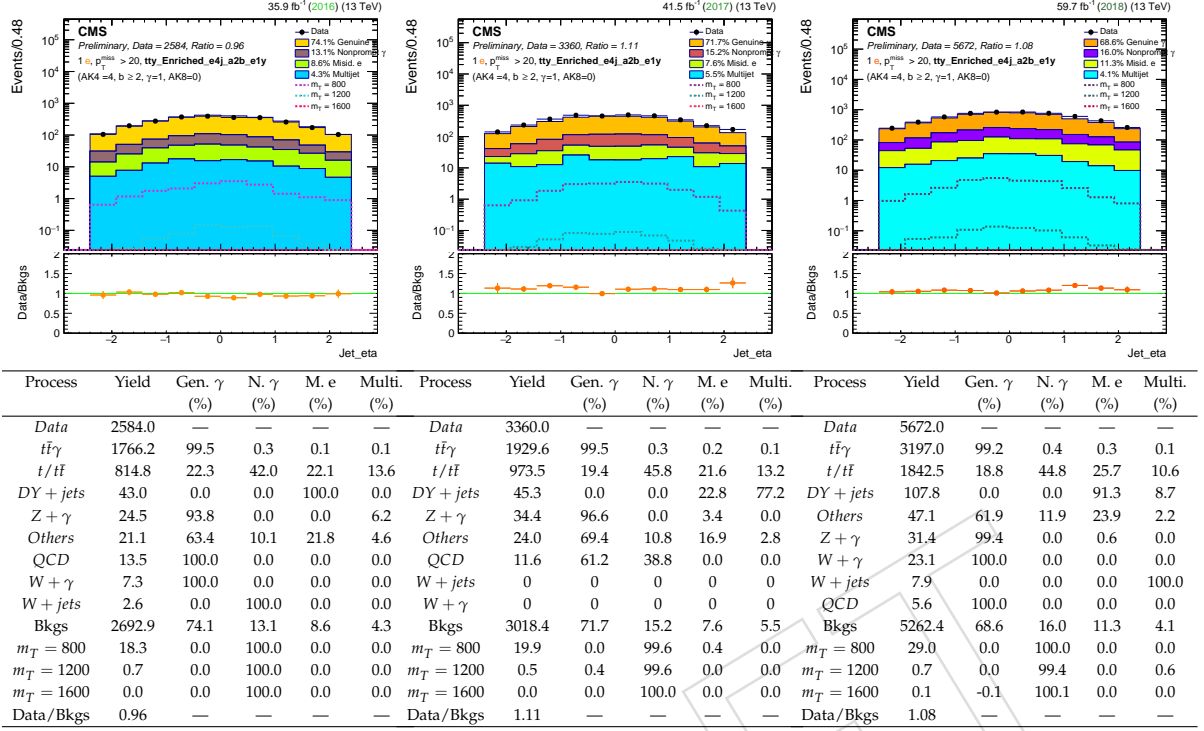


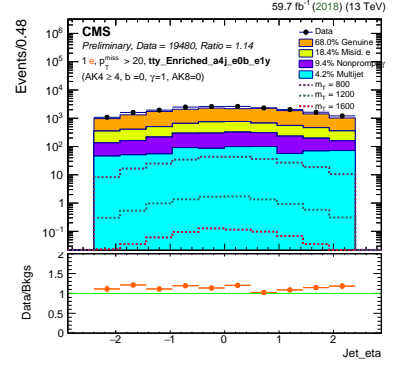
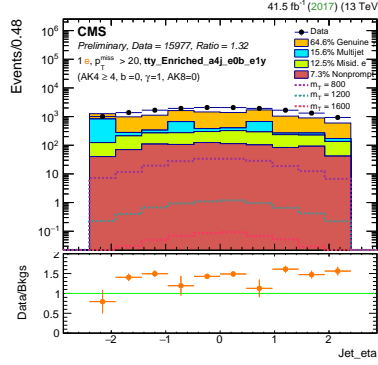
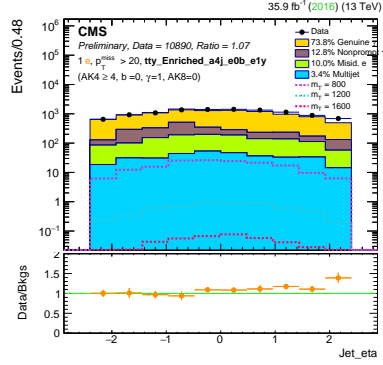
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	1779.0	—	—	—	—	Data	2322.0	—	—	—	—	Data	3621.0	—	—	—	—
$t\bar{t}\gamma$	1020.4	99.4	0.3	0.1	0.1	$t\bar{t}\gamma$	1118.1	99.5	0.3	0.1	0.1	$t\bar{t}\gamma$	1735.9	99.2	0.4	0.3	0.1
$t/\bar{t}\bar{t}$	507.7	23.7	44.5	20.1	11.8	$t/\bar{t}\bar{t}$	609.8	22.9	45.9	19.1	12.2	$t/\bar{t}\bar{t}$	1059.1	20.8	45.4	23.4	10.3
QCD	113.0	20.5	2.6	0.0	76.9	$W + \gamma$	105.8	96.9	3.1	0.0	0.0	$W + \gamma$	106.7	100.0	0.0	0.0	0.0
$W + \gamma$	99.0	100.0	0.0	0.0	0.0	$DY + jets$	56.1	0.0	0.0	81.0	19.0	$DY + jets$	100.4	0.0	0.0	95.4	4.6
$DY + jets$	48.1	3.4	0.0	90.4	6.1	QCD	51.9	52.2	47.8	0.0	0.0	$Z + \gamma$	54.9	97.2	0.0	2.8	0.0
$Z + \gamma$	39.1	97.1	1.9	0.0	1.0	$Z + \gamma$	32.1	97.3	0.0	2.7	0.0	Others	43.3	69.1	10.3	18.7	2.0
Others	16.3	69.7	9.4	16.5	4.3	Others	22.9	73.6	9.1	15.3	2.0	QCD	27.7	100.0	0.0	0.0	0.0
$W + jets$	9.8	0.0	90.9	0.5	8.6	$W + jets$	3.4	0.0	98.5	0.0	1.5	$W + jets$	20.5	0.0	66.5	0.0	33.5
Bkgs	1853.4	70.6	13.1	8.1	8.2	Bkgs	2000.0	71.5	15.8	8.4	4.3	Bkgs	3148.3	68.6	16.1	11.4	3.9
$m_T = 800$	14.0	0.0	100.0	0.0	0.0	$m_T = 800$	16.5	0.0	99.9	0.1	0.0	$m_T = 800$	24.3	0.0	99.7	0.3	0.0
$m_T = 1200$	0.5	0.0	99.2	0.8	0.0	$m_T = 1200$	0.5	0.1	99.9	0.0	0.0	$m_T = 1200$	0.7	0.0	99.6	0.3	0.2
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.2	99.4	0.2	0.2	$m_T = 1600$	0.0	0.3	99.7	0.0	0.0
Data/Bkgs	0.96	—	—	—	—	Data/Bkgs	1.16	—	—	—	—	Data/Bkgs	1.15	—	—	—	—



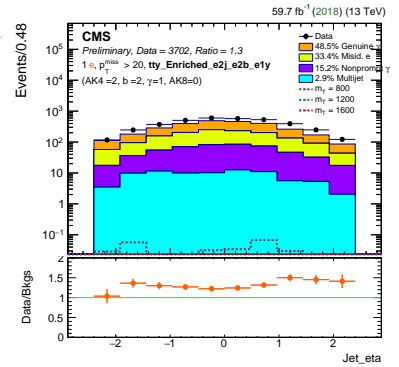
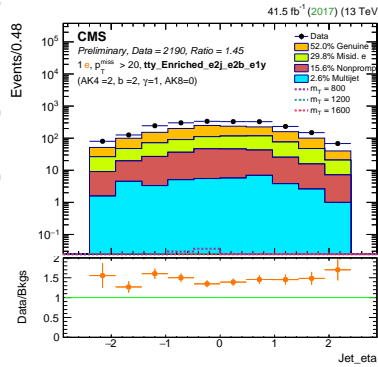
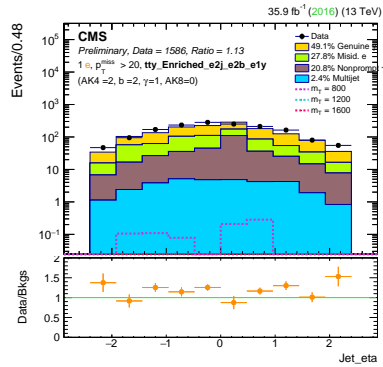
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	8721.0	—	—	—	—	Data	12950.0	—	—	—	—	Data	16545.0	—	—	—	—
$W + \gamma$	2799.6	99.7	0.2	0.1	0.0	$W + \gamma$	3140.4	99.7	0.3	0.0	0.1	$W + \gamma$	4913.5	99.8	0.0	0.1	0.0
$DY + jets$	991.2	0.6	7.2	85.9	6.3	$DY + jets$	1548.1	1.3	5.2	86.7	6.8	$DY + jets$	2945.4	1.5	5.5	89.7	3.2
QCD	989.1	76.4	20.2	0.3	3.1	$Z + \gamma$	1164.7	98.0	0.3	1.5	0.3	$Z + \gamma$	1527.5	98.2	0.1	1.6	0.1
$Z + \gamma$	922.4	98.5	0.1	1.2	0.3	QCD	1150.1	61.8	4.6	0.0	33.6	QCD	1451.1	82.3	10.7	0.0	7.1
$t\bar{t}\gamma$	693.9	99.4	0.3	0.2	0.1	$t\bar{t}\gamma$	735.9	99.3	0.4	0.2	0.1	$t\bar{t}\gamma$	980.1	99.2	0.4	0.2	0.1
$t/\bar{t}\bar{t}$	425.0	27.0	46.3	17.8	8.9	$t/\bar{t}\bar{t}$	502.1	28.7	43.7	18.0	9.6	$t/\bar{t}\bar{t}$	734.7	23.4	45.8	21.1	9.7
$W + jets$	293.7	0.3	61.8	0.5	37.5	$W + jets$	436.9	0.6	65.6	0.0	33.8	$W + jets$	675.3	0.0	60.5	0.6	38.9
Others	196.7	67.9	10.9	18.4	2.7	Others	288.2	75.6	7.1	14.3	2.9	Others	441.5	71.7	8.3	17.7	2.3
Bkgs	7311.7	73.9	9.3	13.4	3.4	Bkgs	8966.3	68.0	7.5	16.6	7.8	Bkgs	13669.2	66.6	8.1	21.3	4.0
$m_T = 800$	31.4	0.0	100.0	0.0	0.0	$m_T = 800$	39.9	0.1	99.9	0.0	0.0	$m_T = 800$	52.7	0.4	99.5	0.1	0.0
$m_T = 1200$	1.1	0.6	99.1	0.3	0.0	$m_T = 1200$	1.3	0.0	99.9	0.1	0.0	$m_T = 1200$	1.9	0.1	99.6	0.2	0.1
$m_T = 1600$	0.1	0.8	99.2	0.0	0.0	$m_T = 1600$	0.1	0.2	99.7	0.0	0.1	$m_T = 1600$	0.1	-0.2	100.1	0.1	-0.0
Data/Bkgs	1.19	—	—	—	—	Data/Bkgs	1.44	—	—	—	—	Data/Bkgs	1.21	—	—	—	—



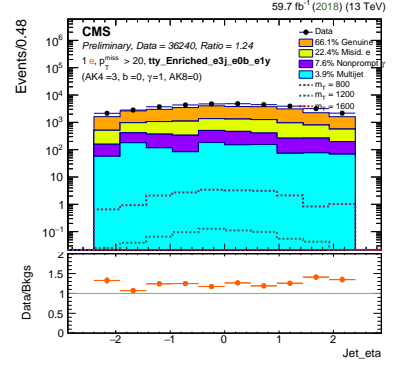
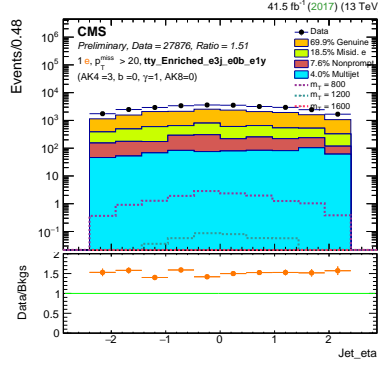
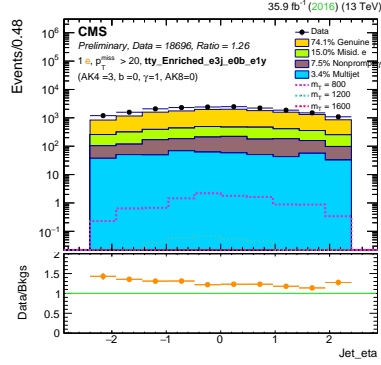




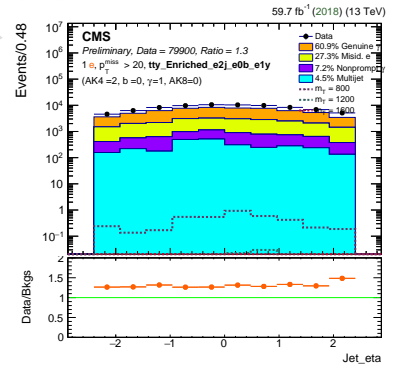
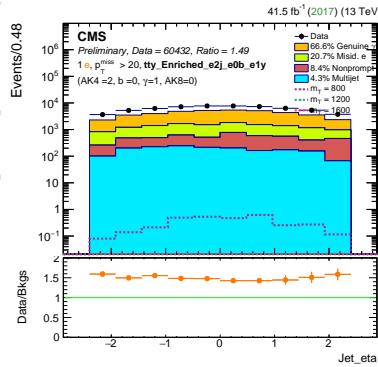
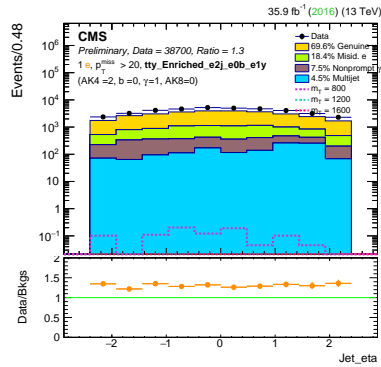
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	10890.0	—	—	—	—	Data	15977.0	—	—	—	—	Data	19480.0	—	—	—	—
$W + \gamma$	3164.7	99.1	0.7	0.1	0.0	$W + \gamma$	3462.2	99.8	0.0	0.0	0.2	$W + \gamma$	5783.3	99.9	0.0	0.0	0.1
QCD	2420.7	73.1	24.2	0.5	2.2	QCD	2655.2	46.1	0.6	0.0	53.2	QCD	3125.6	1.4	5.7	88.8	4.2
$t\bar{t}\gamma$	1402.2	99.6	0.2	0.1	0.1	$DY + jets$	1591.9	1.6	6.8	80.5	11.0	$t\bar{t}\gamma$	2117.7	85.9	13.7	0.0	0.4
$DY + jets$	963.6	0.0	8.4	85.4	6.2	$t\bar{t}\gamma$	1493.4	99.5	0.3	0.1	0.1	$t\bar{t}\gamma$	1947.9	99.3	0.4	0.2	0.1
$Z + \gamma$	843.9	97.4	0.3	2.0	0.4	$Z + \gamma$	1054.9	96.5	0.2	2.8	0.5	$t/t\bar{t}$	1308.6	22.5	47.8	18.6	11.1
$t/t\bar{t}$	743.2	25.6	48.0	15.4	11.0	$t/t\bar{t}$	854.2	25.1	47.6	16.4	10.9	$Z + \gamma$	1290.1	97.7	-0.0	2.2	0.1
$W + jets$	351.8	0.0	61.2	0.0	38.8	$W + jets$	491.0	0.0	65.5	0.0	34.5	$W + jets$	872.7	0.0	51.9	0.0	48.1
Others	300.3	69.4	11.7	16.7	2.1	Others	457.7	79.7	5.5	11.9	3.0	Others	676.7	75.6	7.1	15.2	2.2
Bkgs	10190.4	73.8	12.8	10.0	3.4	Bkgs	12060.4	64.6	7.3	12.5	15.6	Bkgs	17122.5	68.0	9.4	18.4	4.2
$m_T = 800$	164.5	0.0	100.0	0.0	0.0	$m_T = 800$	199.8	0.1	99.9	0.0	0.0	$m_T = 800$	262.8	0.5	99.4	0.1	0.0
$m_T = 1200$	5.9	0.7	99.3	0.0	0.0	$m_T = 1200$	6.8	0.1	99.9	0.1	0.0	$m_T = 1200$	9.7	0.1	99.6	0.2	0.1
$m_T = 1600$	0.4	0.9	99.1	0.0	0.0	$m_T = 1600$	0.5	0.2	99.7	0.0	0.1	$m_T = 1600$	0.7	-0.3	100.2	0.1	-0.0
Data/Bkgs	1.07	—	—	—	—	Data/Bkgs	1.32	—	—	—	—	Data/Bkgs	1.14	—	—	—	—



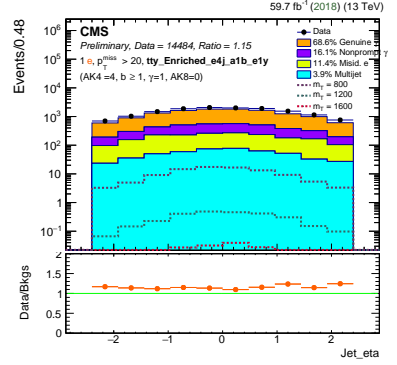
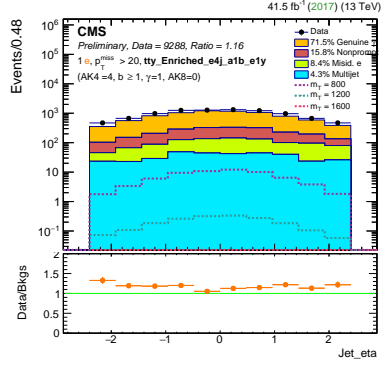
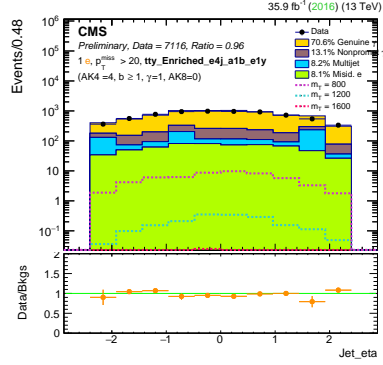
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	1586.0	—	—	—	—	Data	2190.0	—	—	—	—	Data	3702.0	—	—	—	—
$t/t\bar{t}$	672.8	19.8	30.8	44.6	4.7	$t/t\bar{t}$	769.2	20.2	30.3	44.9	4.6	$t/t\bar{t}$	1590.3	19.9	26.5	49.1	4.5
$t\bar{t}\gamma$	507.5	98.9	0.4	0.6	0.1	$t\bar{t}\gamma$	563.9	98.7	0.4	0.8	0.2	$t\bar{t}\gamma$	954.6	98.6	0.4	0.9	0.1
$DY + jets$	86.9	0.0	4.1	95.8	0.0	$DY + jets$	101.8	0.0	0.0	96.5	3.5	$DY + jets$	160.7	0.0	4.0	96.0	0.0
QCD	72.6	1.5	98.5	0.0	0.0	$Z + \gamma$	34.5	99.6	0.0	0.4	0.0	$Z + \gamma$	58.2	98.4	0.0	1.6	0.0
$Z + \gamma$	44.8	100.0	0.0	0.0	0.0	$W + \gamma$	30.7	100.0	0.0	0.0	0.0	$W + \gamma$	35.6	100.0	0.0	0.0	0.0
Others	9.6	34.8	3.7	48.9	12.6	Others	7.7	62.7	5.9	29.4	2.0	QCD	22.4	100.0	0.0	0.0	0.0
$W + jets$	7.6	0.0	100.0	0.0	0.0	QCD	4.8	100.0	0.0	0.0	0.0	Others	16.9	54.0	9.0	36.2	0.7
$W + \gamma$	6.6	100.0	0.0	0.0	0.0	$W + jets$	0	0	0	0	0	$W + jets$	9.3	0.0	0.0	0.0	100.0
Bkgs	1408.4	49.1	20.8	27.8	2.4	Bkgs	1512.7	52.0	15.6	29.8	2.6	Bkgs	2847.9	48.5	15.2	33.4	2.9
$m_T = 800$	0.8	0.0	100.0	0.0	0.0	$m_T = 800$	0.1	0.0	100.0	0.0	0.0	$m_T = 800$	0.3	0.0	100.0	0.0	0.0
$m_T = 1200$	0.0	0.0	100.0	0.0	0.0	$m_T = 1200$	0.0	0.0	100.0	0.0	0.0	$m_T = 1200$	0.0	0.0	100.0	0.0	0.0
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0
Data/Bkgs	1.13	—	—	—	—	Data/Bkgs	1.45	—	—	—	—	Data/Bkgs	1.3	—	—	—	—



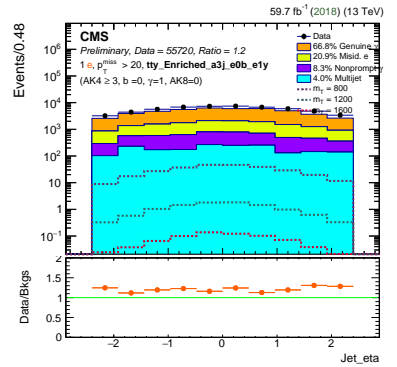
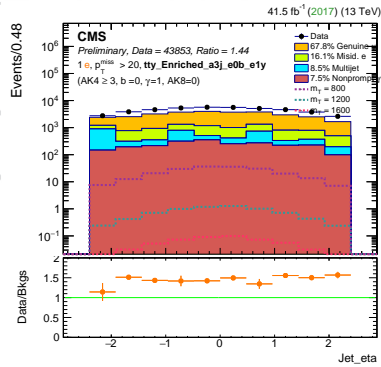
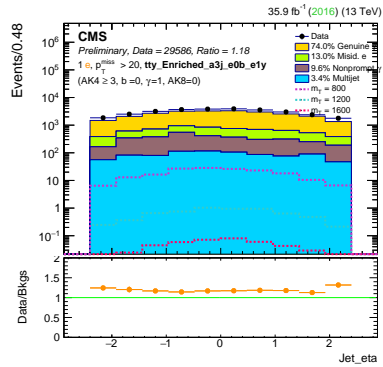
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	18696.0	—	—	—	—	Data	27876.0	—	—	—	—	Data	36240.0	—	—	—	—
$W + \gamma$	6204.5	99.9	0.0	0.0	0.0	$W + \gamma$	7017.3	99.6	0.4	0.0	0.0	$W + \gamma$	10775.6	99.8	0.1	0.2	0.0
$DY + jets$	2295.0	0.8	6.8	86.1	6.2	$DY + jets$	3526.8	1.2	4.6	88.7	5.5	$DY + jets$	6654.6	1.5	5.4	90.1	2.9
$Z + \gamma$	2166.4	98.7	-0.0	0.9	0.3	$Z + \gamma$	2746.8	98.4	0.3	1.1	0.2	$Z + \gamma$	3663.9	98.3	0.2	1.4	0.1
QCD	1258.8	82.9	12.9	0.0	4.2	QCD	1527.4	84.0	9.6	0.0	6.5	QCD	2909.7	80.3	9.3	0.0	10.4
$t\bar{t}\gamma$	1141.7	99.2	0.4	0.2	0.2	$t\bar{t}\gamma$	1208.8	99.2	0.4	0.2	0.1	$t\bar{t}\gamma$	1631.7	99.1	0.4	0.3	0.1
$t/\bar{t}$	774.5	27.8	45.6	19.1	7.5	$W + jets$	972.1	0.8	64.9	0.0	34.3	$W + jets$	1427.3	0.0	64.1	0.8	35.1
$W + jets$	638.8	0.4	62.1	0.7	36.9	$t/\bar{t}$	934.0	30.8	41.4	18.8	9.0	$t/\bar{t}$	1322.4	23.9	44.6	22.7	8.9
Others	388.2	67.2	10.5	19.4	3.0	Others	552.7	73.3	8.1	15.6	3.0	Others	860.5	69.7	8.8	19.1	2.5
Bkgs	14868.0	74.1	7.5	15.0	3.4	Bkgs	18485.8	69.9	7.6	18.5	4.0	Bkgs	29245.7	66.1	7.6	22.4	3.9
$m_T = 800$	10.7	0.0	100.0	0.0	0.0	$m_T = 800$	14.3	0.0	100.0	0.0	0.0	$m_T = 800$	20.1	0.0	100.0	0.0	0.0
$m_T = 1200$	0.3	0.0	96.9	3.1	0.0	$m_T = 1200$	0.4	0.0	100.0	0.0	0.0	$m_T = 1200$	0.7	0.0	100.0	0.0	0.0
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	-0.9	100.9	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0
Data/Bkgs	1.26	—	—	—	—	Data/Bkgs	1.51	—	—	—	—	Data/Bkgs	1.24	—	—	—	—



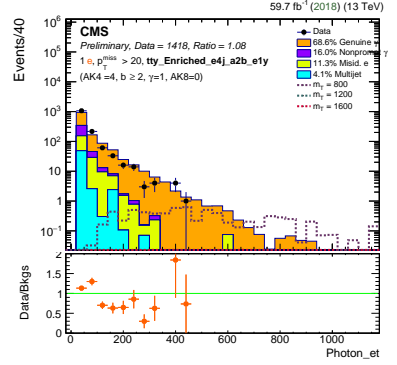
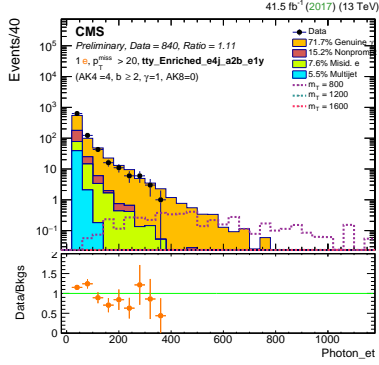
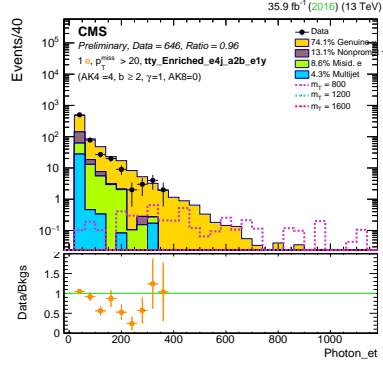
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	38700.0	—	—	—	—	Data	60432.0	—	—	—	—	Data	79900.0	—	—	—	—
$W + \gamma$	11756.6	99.9	0.0	0.0	0.1	$W + \gamma$	15557.4	99.8	0.1	0.0	0.1	$W + \gamma$	21940.0	99.8	0.1	0.0	0.1
$DY + jets$	5799.6	1.1	6.9	87.3	4.7	$DY + jets$	8977.7	1.0	5.3	88.5	5.1	$DY + jets$	17696.9	1.4	4.6	90.3	3.7
$Z + \gamma$	5488.7	98.8	0.1	0.9	0.1	$Z + \gamma$	7515.5	98.5	0.1	1.1	0.2	$Z + \gamma$	10238.8	98.3	0.0	1.5	0.2
QCD	2746.4	72.6	12.2	0.2	15.0	QCD	3337.0	70.7	23.7	0.0	5.6	$W + jets$	3917.4	0.7	62.3	0.0	37.0
$W + jets$	1619.5	0.0	65.4	0.4	34.3	$W + jets$	2621.3	0.0	62.8	0.2	37.0	QCD	3722.0	77.2	9.9	0.0	12.9
$t/\bar{t}$	960.9	33.6	37.3	22.3	6.8	$t/\bar{t}$	1008.8	30.5	39.3	22.4	7.9	$t/\bar{t}$	1533.4	24.8	40.7	27.0	7.5
$t\bar{t}\gamma$	870.9	99.2	0.4	0.3	0.1	$t\bar{t}\gamma$	943.7	99.2	0.4	0.3	0.1	$t\bar{t}\gamma$	1311.1	99.1	0.5	0.4	0.1
Others	488.3	57.2	13.0	25.7	4.2	Others	696.5	65.0	12.9	19.1	2.9	Others	1059.5	59.4	13.7	23.6	3.3
Bkgs	29730.9	69.6	7.5	18.4	4.5	Bkgs	40657.8	66.6	8.4	20.7	4.3	Bkgs	61419.2	60.9	7.2	27.3	4.5
$m_T = 800$	0.9	0.0	100.0	0.0	0.0	$m_T = 800$	3.2	1.4	98.6	0.0	0.0	$m_T = 800$	4.0	0.0	100.0	0.0	0.0
$m_T = 1200$	0.0	0.0	100.0	0.0	0.0	$m_T = 1200$	0.1	2.8	98.1	-1.0	0.0	$m_T = 1200$	0.1	0.0	98.0	2.0	0.0
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0
Data/Bkgs	1.3	—	—	—	—	Data/Bkgs	1.49	—	—	—	—	Data/Bkgs	1.3	—	—	—	—



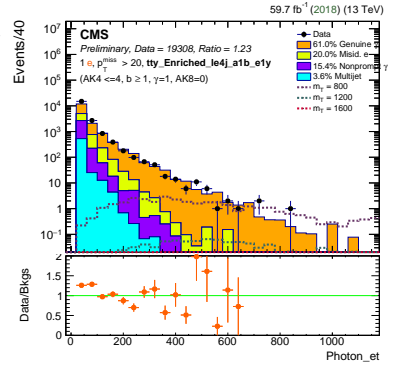
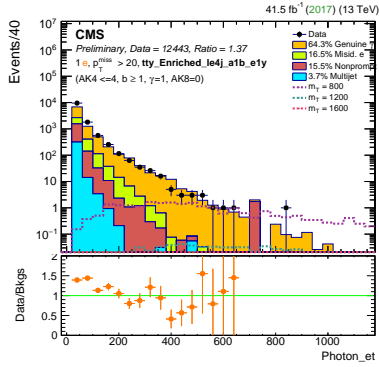
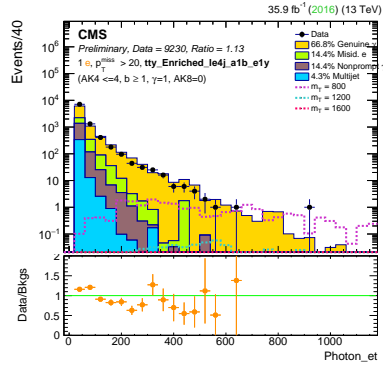
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	7116.0	—	—	—	—	Data	9288.0	—	—	—	—	Data	14484.0	—	—	—	—
$t\bar{t}\gamma$	4081.6	99.4	0.3	0.1	0.1	$t\bar{t}\gamma$	4472.5	99.5	0.3	0.1	0.1	$t\bar{t}\gamma$	6943.6	99.2	0.4	0.3	0.1
$t/\bar{t}\bar{t}$	2030.6	23.7	44.5	20.1	11.8	$t/\bar{t}\bar{t}$	2439.1	22.9	45.9	19.1	12.2	$t/\bar{t}\bar{t}$	4236.2	20.8	45.4	23.4	10.3
QCD	452.1	20.5	2.6	0.0	76.9	$W + \gamma$	423.1	96.9	3.1	0.0	0.0	$W + \gamma$	426.6	100.0	0.0	0.0	0.0
$W + \gamma$	396.2	100.0	0.0	0.0	0.0	$DY + jets$	224.3	0.0	0.0	81.0	19.0	$DY + jets$	401.7	0.0	0.0	95.4	4.6
$DY + jets$	192.2	3.4	0.0	90.4	6.1	QCD	207.5	52.2	47.8	0.0	0.0	$Z + \gamma$	219.5	97.2	0.0	2.8	0.0
$Z + \gamma$	156.2	97.1	1.9	0.0	1.0	$Z + \gamma$	128.3	97.3	0.0	2.7	0.0	Others	173.1	69.1	10.3	18.7	2.0
Others	65.3	69.7	9.4	16.5	4.3	Others	91.5	73.6	9.1	15.3	2.0	QCD	110.7	100.0	0.0	0.0	0.0
$W + jets$	39.2	0.0	90.9	0.5	8.6	$W + jets$	13.6	0.0	98.5	0.0	1.5	$W + jets$	81.9	0.0	66.5	0.0	33.5
Bkgs	7413.4	70.6	13.1	8.1	8.2	Bkgs	7999.9	71.5	15.8	8.4	4.3	Bkgs	12593.2	68.6	16.1	11.4	3.9
$m_T = 800$	55.9	0.0	100.0	0.0	0.0	$m_T = 800$	65.8	0.0	99.9	0.1	0.0	$m_T = 800$	97.3	0.0	99.7	0.3	0.0
$m_T = 1200$	1.8	0.0	99.2	0.8	0.0	$m_T = 1200$	1.9	0.1	99.9	0.0	0.0	$m_T = 1200$	2.8	0.0	99.6	0.3	0.2
$m_T = 1600$	0.1	0.0	100.0	0.0	0.0	$m_T = 1600$	0.1	0.2	99.4	0.2	0.2	$m_T = 1600$	0.2	0.3	99.7	0.0	0.0
Data/Bkgs	0.96	—	—	—	—	Data/Bkgs	1.16	—	—	—	—	Data/Bkgs	1.15	—	—	—	—



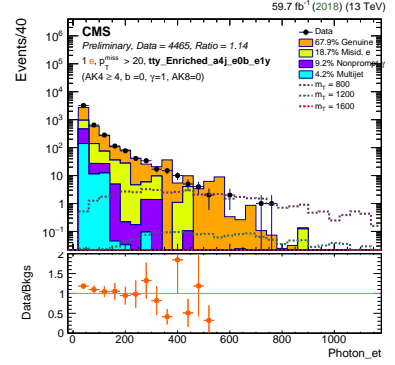
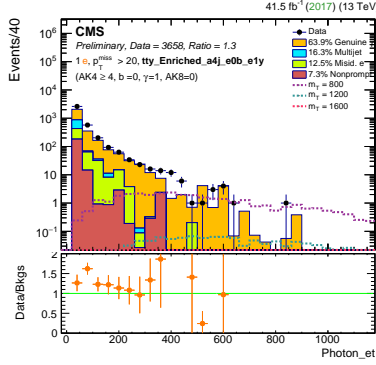
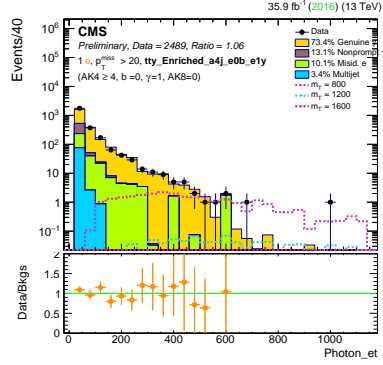
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	29586.0	—	—	—	—	Data	43853.0	—	—	—	—	Data	55720.0	—	—	—	—
$W + \gamma$	9369.3	99.7	0.3	0.1	0.0	$W + \gamma$	10479.4	99.7	0.3	0.0	0.1	$W + \gamma$	16558.9	99.8	0.0	0.1	0.0
QCD	3679.5	76.4	20.4	0.3	2.9	$DY + jets$	5118.7	1.3	5.3	86.2	7.2	$DY + jets$	9780.2	1.5	5.5	89.7	3.3
$DY + jets$	3258.6	0.6	7.3	85.9	6.2	QCD	4182.6	59.9	3.9	0.0	36.2	QCD	5027.3	82.6	11.2	0.0	6.2
$Z + \gamma$	3010.3	98.4	0.1	1.2	0.3	$Z + \gamma$	3801.7	97.9	0.3	1.6	0.3	$Z + \gamma$	4954.0	98.1	0.1	1.6	0.1
$t\bar{t}\gamma$	2543.9	99.4	0.3	0.2	0.1	$t\bar{t}\gamma$	2702.2	99.4	0.4	0.2	0.1	$t\bar{t}\gamma$	3579.7	99.2	0.4	0.2	0.1
$t/\bar{t}\bar{t}$	1517.6	26.7	46.8	17.3	9.2	$t/\bar{t}\bar{t}$	1788.1	28.1	44.3	17.6	9.9	$t/\bar{t}\bar{t}$	2631.0	23.2	46.2	20.7	10.0
$W + jets$	990.7	0.3	61.8	0.4	37.6	$W + jets$	1463.0	0.5	65.1	0.0	34.4	$W + jets$	2300.0	0.0	59.5	0.5	40.0
Others	688.5	68.2	11.0	18.2	2.6	Others	1010.4	76.2	6.9	13.9	3.0	Others	1537.1	72.3	8.1	17.3	2.3
Bkgs	25058.3	74.0	9.6	13.0	3.4	Bkgs	30546.2	67.8	7.5	16.1	8.5	Bkgs	46368.2	66.8	8.3	20.9	4.0
$m_T = 800$	175.2	0.0	100.0	0.0	0.0	$m_T = 800$	214.2	0.1	99.9	0.0	0.0	$m_T = 800$	282.9	0.4	99.5	0.1	0.0
$m_T = 1200$	6.3	0.6	99.2	0.2	0.0	$m_T = 1200$	7.2	0.1	99.9	0.1	0.0	$m_T = 1200$	10.4	0.1	99.6	0.2	0.1
$m_T = 1600$	0.4	0.8	99.2	0.0	0.0	$m_T = 1600$	0.5	0.1	99.8	0.0	0.1	$m_T = 1600$	0.7	-0.2	100.2	0.1	-0.0
Data/Bkgs	1.18	—	—	—	—	Data/Bkgs	1.44	—	—	—	—	Data/Bkgs	1.2	—	—	—	—



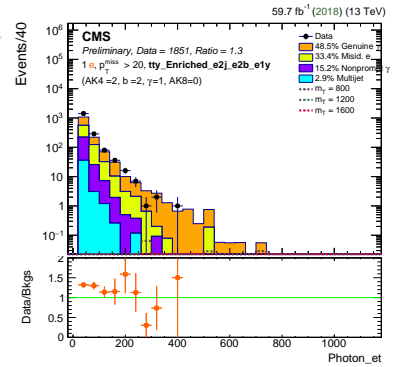
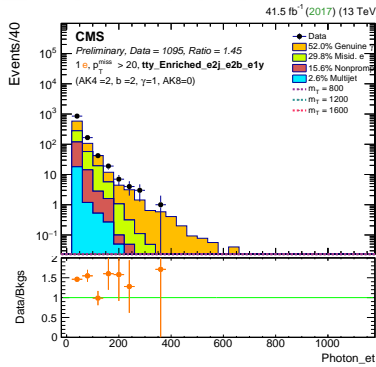
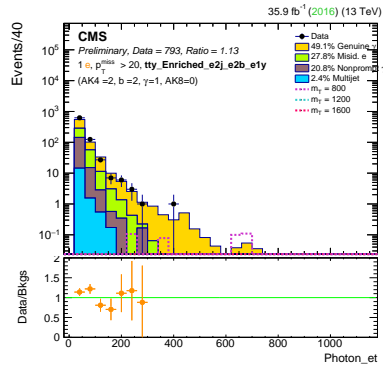
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	646.0	—	—	—	—	Data	840.0	—	—	—	—	Data	1418.0	—	—	—	—
$t\bar{t}\gamma$	441.5	99.5	0.3	0.1	0.1	$t\bar{t}\gamma$	482.4	99.5	0.3	0.2	0.1	$t\bar{t}\gamma$	799.2	99.2	0.4	0.3	0.1
$t/\bar{t}$	203.7	22.3	42.0	22.1	13.6	$t/\bar{t}$	243.4	19.4	45.8	21.6	13.2	$t/\bar{t}$	460.6	18.8	44.8	25.7	10.6
$DY + jets$	10.7	0.0	0.0	100.0	0.0	$DY + jets$	11.3	0.0	0.0	22.8	77.2	$DY + jets$	27.0	0.0	0.0	91.3	8.7
$Z + \gamma$	6.1	93.8	0.0	0.0	6.2	$Z + \gamma$	8.6	96.6	0.0	3.4	0.0	Others	11.8	61.9	11.9	23.9	2.2
Others	5.3	63.4	10.1	21.8	4.6	Others	6.0	69.4	10.8	16.9	2.8	$Z + \gamma$	7.8	99.4	0.0	0.6	0.0
QCD	3.4	100.0	0.0	0.0	0.0	QCD	2.9	61.2	38.8	0.0	0.0	$W + \gamma$	5.8	100.0	0.0	0.0	0.0
$W + \gamma$	1.8	100.0	0.0	0.0	0.0	$W + \gamma$	0	0	0	0	0	$W + jets$	2.0	0.0	0.0	0.0	100.0
$W + jets$	0.6	0.0	100.0	0.0	0.0	$W + jets$	0	0	0	0	0	QCD	1.4	100.0	0.0	0.0	0.0
Bkgs	673.2	74.1	13.1	8.6	4.3	Bkgs	754.6	71.7	15.2	7.6	5.5	Bkgs	1315.6	68.6	16.0	11.3	4.1
$m_T = 800$	4.5	0.0	100.0	0.0	0.0	$m_T = 800$	4.7	0.0	99.6	0.4	0.0	$m_T = 800$	7.0	0.0	100.0	0.0	0.0
$m_T = 1200$	0.1	0.0	100.0	0.0	0.0	$m_T = 1200$	0.1	0.5	99.5	0.0	0.0	$m_T = 1200$	0.2	0.0	99.3	0.0	0.7
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	-0.1	100.1	0.0	0.0
Data/Bkgs	0.96	—	—	—	—	Data/Bkgs	1.11	—	—	—	—	Data/Bkgs	1.08	—	—	—	—



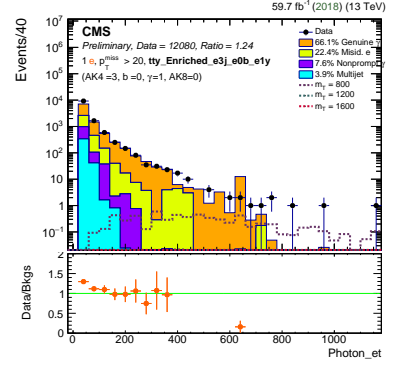
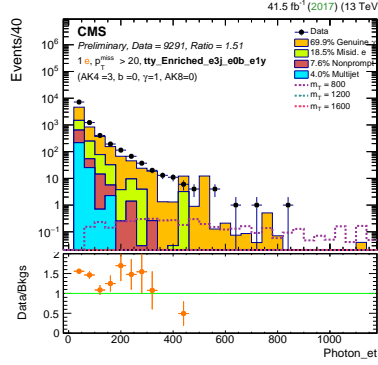
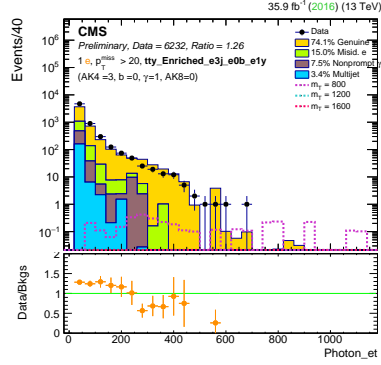
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	9230.0	—	—	—	—	Data	12443.0	—	—	—	—	Data	19308.0	—	—	—	—
$t\bar{t}\gamma$	3388.9	99.3	0.4	0.3	0.1	$t\bar{t}\gamma$	3747.5	99.2	0.4	0.3	0.1	$t\bar{t}\gamma$	5865.7	99.0	0.4	0.4	0.1
$t/\bar{t}$	2636.6	25.0	39.1	27.8	8.2	$t/\bar{t}$	3130.4	24.8	39.8	27.2	8.2	$t/\bar{t}$	5678.1	22.3	38.1	32.2	7.4
$W + \gamma$	745.4	100.0	0.0	0.0	0.0	$W + \gamma$	737.7	99.0	0.4	0.6	0.0	$DY + jets$	1356.3	1.2	3.2	91.2	4.5
$DY + jets$	470.6	1.5	5.1	88.2	5.2	$DY + jets$	674.0	1.3	2.0	90.8	5.8	$W + \gamma$	1302.7	100.0	0.0	0.0	0.0
$Z + \gamma$	418.3	98.3	0.2	1.3	0.2	$Z + \gamma$	423.8	98.7	0.1	1.3	0.0	$Z + \gamma$	686.3	97.3	0.0	2.4	0.2
QCD	363.2	63.4	12.3	0.0	24.3	QCD	202.1	72.8	26.4	0.0	0.7	QCD	429.2	95.8	2.6	0.0	1.7
$W + jets$	76.8	0.0	74.5	1.1	24.4	$W + jets$	102.1	0.0	68.4	2.1	29.4	$W + jets$	225.2	0.0	67.6	0.0	32.4
Others	71.2	63.4	8.9	23.4	4.4	Others	89.5	68.0	9.4	19.3	3.3	Others	170.4	63.4	9.7	23.9	3.0
Bkgs	8171.1	66.8	14.4	14.4	4.3	Bkgs	9107.1	64.3	15.5	16.5	3.7	Bkgs	15713.9	61.0	15.4	20.0	3.6
$m_T = 800$	20.2	0.0	100.0	0.0	0.0	$m_T = 800$	22.8	0.0	99.9	0.1	0.0	$m_T = 800$	33.8	0.1	99.6	0.3	0.0
$m_T = 1200$	0.6	0.0	98.9	1.1	0.0	$m_T = 1200$	0.6	0.1	99.8	0.1	0.0	$m_T = 1200$	0.9	0.0	99.7	0.2	0.1
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.2	99.5	0.2	0.1	$m_T = 1600$	0.1	0.2	99.8	0.0	0.0
Data/Bkgs	1.13	—	—	—	—	Data/Bkgs	1.37	—	—	—	—	Data/Bkgs	1.23	—	—	—	—



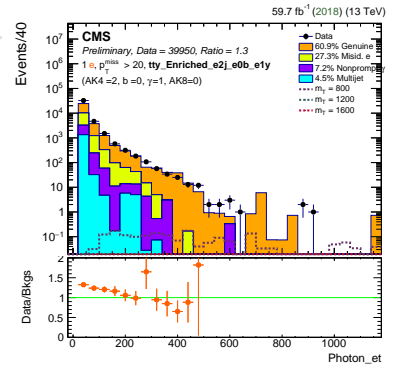
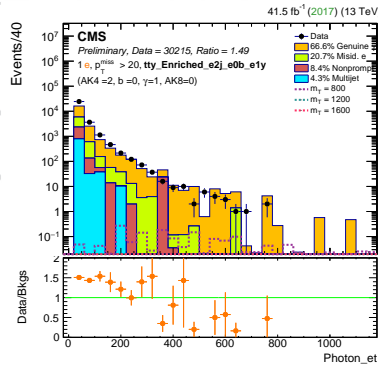
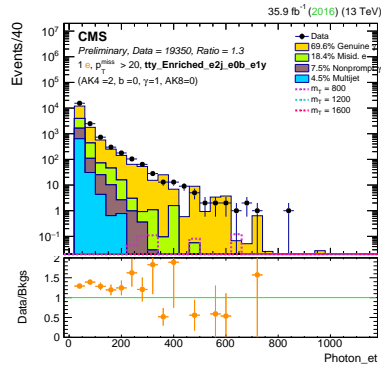
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	2489.0	—	—	—	—	Data	3658.0	—	—	—	—	Data	4465.0	—	—	—	—
$W + \gamma$	731.4	99.0	0.8	0.2	0.0	$W + \gamma$	801.3	99.8	0.0	0.0	0.2	$W + \gamma$	1321.6	99.9	0.0	0.0	0.1
QCD	569.5	71.6	25.6	0.5	2.2	QCD	641.0	44.2	0.6	0.0	55.1	$DY + jets$	727.2	1.5	5.7	88.7	4.1
$t\bar{t}\gamma$	313.3	99.6	0.2	0.1	0.1	$DY + jets$	372.5	1.6	7.1	80.4	10.9	QCD	481.2	86.3	13.4	0.0	0.3
$DY + jets$	226.2	0.0	8.2	85.3	6.5	$t\bar{t}\gamma$	332.9	99.5	0.3	0.1	0.1	$t\bar{t}\gamma$	436.2	99.3	0.4	0.2	0.1
$Z + \gamma$	200.3	97.4	0.3	2.0	0.4	$Z + \gamma$	249.2	96.4	0.2	2.9	0.6	$Z + \gamma$	306.2	97.7	-0.0	2.2	0.0
$t/\bar{t}$	166.9	25.9	47.5	15.7	10.9	$t/\bar{t}$	190.7	25.2	47.4	16.7	10.7	$t/\bar{t}$	293.9	22.7	47.6	18.8	10.8
$W + jets$	80.7	0.0	61.0	0.0	39.0	$W + jets$	112.9	0.0	67.5	0.0	32.5	$W + jets$	199.6	0.0	52.0	0.0	48.0
Others	67.3	69.3	11.8	16.7	2.2	Others	103.9	79.7	5.5	12.0	2.8	Others	154.7	75.5	7.2	15.2	2.1
Bkgs	2355.7	73.4	13.1	10.1	3.4	Bkgs	2804.4	63.9	7.3	12.5	16.3	Bkgs	3920.6	67.9	9.2	18.7	4.2
$m_T = 800$	26.6	0.0	100.0	0.0	0.0	$m_T = 800$	33.2	0.1	99.9	0.0	0.0	$m_T = 800$	44.0	0.4	99.5	0.1	0.0
$m_T = 1200$	0.9	0.8	99.2	0.0	0.0	$m_T = 1200$	1.1	0.0	99.9	0.1	0.0	$m_T = 1200$	1.5	0.1	99.5	0.2	0.2
$m_T = 1600$	0.1	1.0	99.0	0.0	0.0	$m_T = 1600$	0.1	0.4	99.5	0.0	0.1	$m_T = 1600$	0.1	-0.2	100.1	0.1	-0.0
Data/Bkgs	1.06	—	—	—	—	Data/Bkgs	1.3	—	—	—	—	Data/Bkgs	1.14	—	—	—	—



Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	793.0	—	—	—	—	Data	1095.0	—	—	—	—	Data	1851.0	—	—	—	—
$t/\bar{t}$	336.4	19.8	30.8	44.6	4.7	$t/\bar{t}$	384.6	20.2	30.3	44.9	4.6	$t/\bar{t}$	795.2	19.9	26.5	49.1	4.5
$t\bar{t}\gamma$	253.7	98.9	0.4	0.6	0.1	$t\bar{t}\gamma$	282.0	98.7	0.4	0.8	0.2	$t\bar{t}\gamma$	477.3	98.6	0.4	0.9	0.1
$DY + jets$	43.5	0.0	4.1	95.8	0.0	$DY + jets$	50.9	0.0	0.0	96.5	3.5	$DY + jets$	80.4	0.0	4.0	96.0	0.0
QCD	36.3	1.5	98.5	0.0	0.0	$Z + \gamma$	17.3	99.6	0.0	0.4	0.0	$Z + \gamma$	29.1	98.4	0.0	1.6	0.0
$Z + \gamma$	22.4	100.0	0.0	0.0	0.0	$W + \gamma$	15.4	100.0	0.0	0.0	0.0	$W + \gamma$	17.8	100.0	0.0	0.0	0.0
Others	4.8	34.8	3.7	48.9	12.6	Others	3.9	62.7	5.9	29.4	2.0	QCD	11.2	100.0	0.0	0.0	0.0
$W + jets$	3.8	0.0	100.0	0.0	0.0	QCD	2.4	100.0	0.0	0.0	0.0	Others	8.4	54.0	9.0	36.2	0.7
$W + \gamma$	3.3	100.0	0.0	0.0	0.0	$W + jets$	0	0	0	0	0	$W + jets$	4.7	0.0	0.0	0.0	100.0
Bkgs	704.2	49.1	20.8	27.8	2.4	Bkgs	756.4	52.0	15.6	29.8	2.6	Bkgs	1424.0	48.5	15.2	33.4	2.9
$m_T = 800$	0.4	0.0	100.0	0.0	0.0	$m_T = 800$	0.0	0.0	100.0	0.0	0.0	$m_T = 800$	0.1	0.0	100.0	0.0	0.0
$m_T = 1200$	0.0	0.0	100.0	0.0	0.0	$m_T = 1200$	0.0	0.0	100.0	0.0	0.0	$m_T = 1200$	0.0	0.0	100.0	0.0	0.0
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0
Data/Bkgs	1.13	—	—	—	—	Data/Bkgs	1.45	—	—	—	—	Data/Bkgs	1.3	—	—	—	—

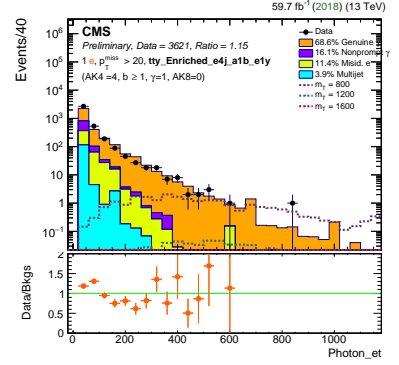
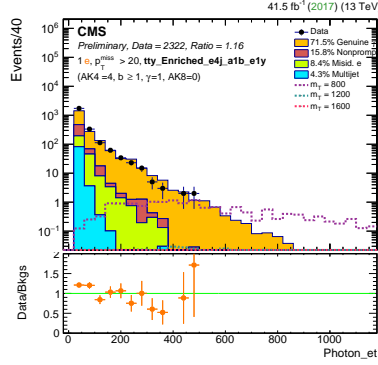
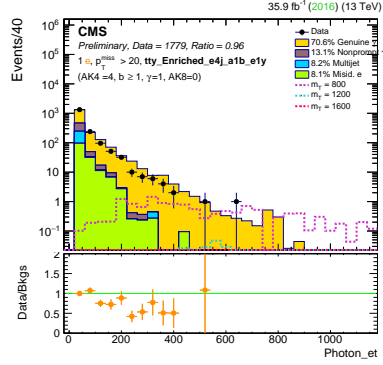


Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	6232.0	—	—	—	—	Data	9291.0	—	—	—	—	Data	12080.0	—	—	—	—
$W + \gamma$	2068.2	99.9	0.0	0.0	0.0	$W + \gamma$	2339.1	99.6	0.4	0.0	0.0	$W + \gamma$	3591.9	99.8	0.1	0.2	0.0
$DY + jets$	765.0	0.8	6.8	86.1	6.2	$DY + jets$	1175.6	1.2	4.6	88.7	5.5	$DY + jets$	2218.2	1.5	5.4	90.1	2.9
$Z + \gamma$	722.1	98.7	-0.0	0.9	0.3	$Z + \gamma$	915.6	98.4	0.3	1.1	0.2	$Z + \gamma$	1221.3	98.3	0.2	1.4	0.1
QCD	419.6	82.9	12.9	0.0	4.2	QCD	509.1	84.0	9.6	0.0	6.5	QCD	969.9	80.3	9.3	0.0	10.4
$t\bar{t}\gamma$	380.6	99.2	0.4	0.2	0.2	$t\bar{t}\gamma$	402.9	99.2	0.4	0.2	0.1	$t\bar{t}\gamma$	543.9	99.1	0.4	0.3	0.1
$t/\bar{t}$	258.2	27.8	45.6	19.1	7.5	$W + jets$	324.0	0.8	64.9	0.0	34.3	$W + jets$	475.8	0.0	64.1	0.8	35.1
$W + jets$	212.9	0.4	62.1	0.7	36.9	$t/\bar{t}$	311.3	30.8	41.4	18.8	9.0	$t/\bar{t}$	440.8	23.9	44.6	22.7	8.9
Others	129.4	67.2	10.5	19.4	3.0	Others	184.2	73.3	8.1	15.6	3.0	Others	286.8	69.7	8.8	19.1	2.5
Bkgs	4956.0	74.1	7.5	15.0	3.4	Bkgs	6161.9	69.9	7.6	18.5	4.0	Bkgs	9748.5	66.1	7.6	22.4	3.9
$m_T = 800$	3.5	0.0	100.0	0.0	0.0	$m_T = 800$	4.5	0.0	100.0	0.0	0.0	$m_T = 800$	6.3	0.0	100.0	0.0	0.0
$m_T = 1200$	0.1	0.0	96.8	3.2	0.0	$m_T = 1200$	0.1	0.0	100.0	0.0	0.0	$m_T = 1200$	0.2	0.0	100.0	0.0	0.0
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	-0.9	100.9	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0
Data/Bkgs	1.26	—	—	—	—	Data/Bkgs	1.51	—	—	—	—	Data/Bkgs	1.24	—	—	—	—

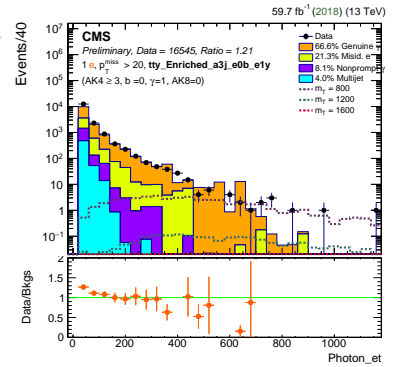
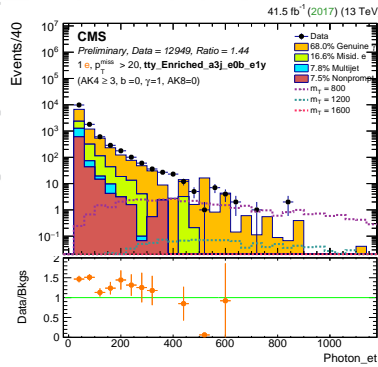
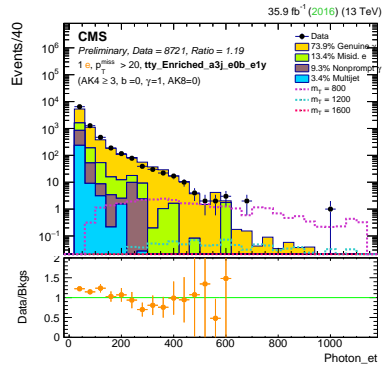


Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	19350.0	—	—	—	—	Data	30215.0	—	—	—	—	Data	39950.0	—	—	—	—
$W + \gamma$	5878.3	99.9	0.0	0.0	0.1	$W + \gamma$	7778.7	99.8	0.1	0.0	0.1	$W + \gamma$	10970.0	99.8	0.1	0.0	0.1
$DY + jets$	2899.8	1.1	6.9	87.3	4.7	$DY + jets$	4488.8	1.0	5.3	88.5	5.1	$DY + jets$	8848.5	1.4	4.6	90.3	3.7
$Z + \gamma$	2744.4	98.8	0.1	0.9	0.1	$Z + \gamma$	3757.7	98.5	0.1	1.1	0.2	$Z + \gamma$	5119.4	98.3	0.0	1.5	0.2
QCD	1373.2	72.6	12.2	0.2	15.0	QCD	1668.5	70.7	23.7	0.0	5.6	$W + jets$	1958.7	0.7	62.3	0.0	37.0
$W + jets$	809.8	0.0	65.4	0.4	34.3	$W + jets$	1310.7	0.0	62.8	0.2	37.0	QCD	1861.0	77.2	9.9	0.0	12.9
$t/\bar{t}$	480.5	33.6	37.3	22.3	6.8	$t/\bar{t}$	504.4	30.5	39.3	22.4	7.9	$t/\bar{t}$	766.7	24.8	40.7	27.0	7.5
$t\bar{t}\gamma$	435.4	99.2	0.4	0.3	0.1	$t\bar{t}\gamma$	471.9	99.2	0.4	0.3	0.1	$t\bar{t}\gamma$	655.5	99.1	0.5	0.4	0.1
Others	244.1	57.2	13.0	25.7	4.2	Others	348.2	65.0	12.9	19.1	2.9	Others	529.8	59.4	13.7	23.6	3.3
Bkgs	14865.4	69.6	7.5	18.4	4.5	Bkgs	20328.9	66.6	8.4	20.7	4.3	Bkgs	30709.6	60.9	7.2	27.3	4.5
$m_T = 800$	0.5	0.0	100.0	0.0	0.0	$m_T = 800$	1.6	1.4	98.6	0.0	0.0	$m_T = 800$	1.8	0.0	100.0	0.0	0.0
$m_T = 1200$	0.0	0.0	100.0	0.0	0.0	$m_T = 1200$	0.0	3.0	98.0	-1.0	0.0	$m_T = 1200$	0.1	0.0	97.8	2.2	0.0
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0
Data/Bkgs	1.3	—	—	—	—	Data/Bkgs	1.49	—	—	—	—	Data/Bkgs	1.3	—	—	—	—



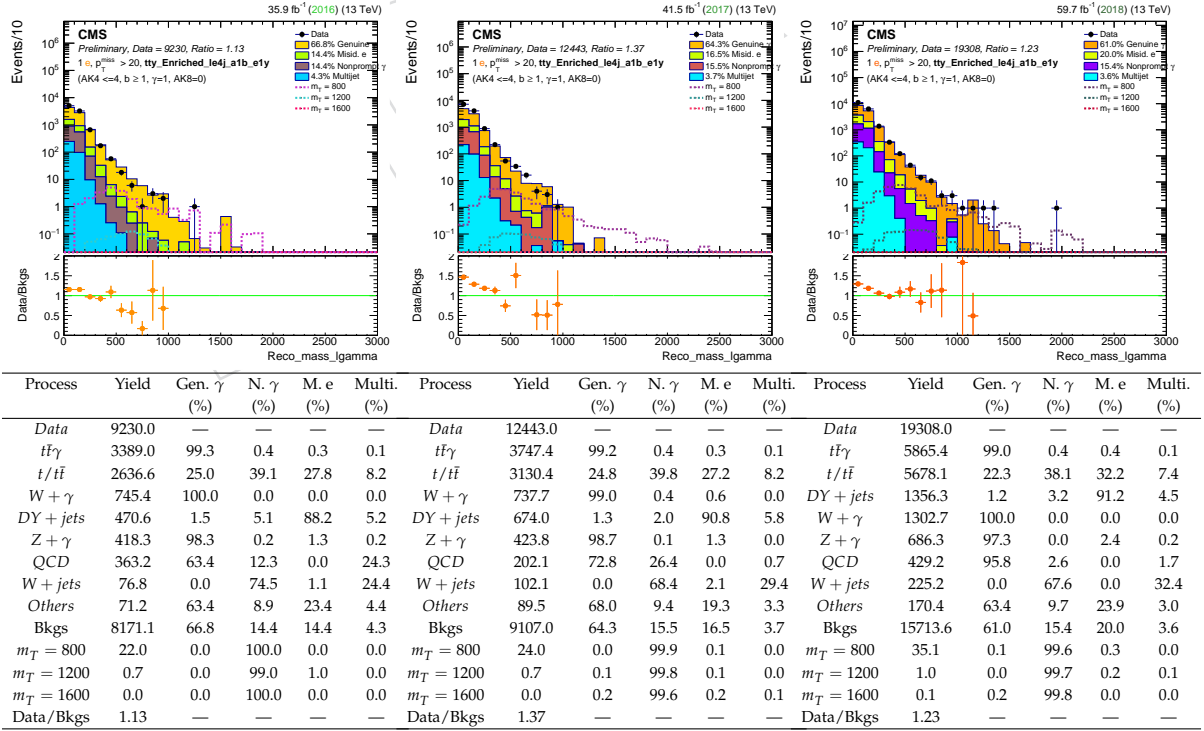
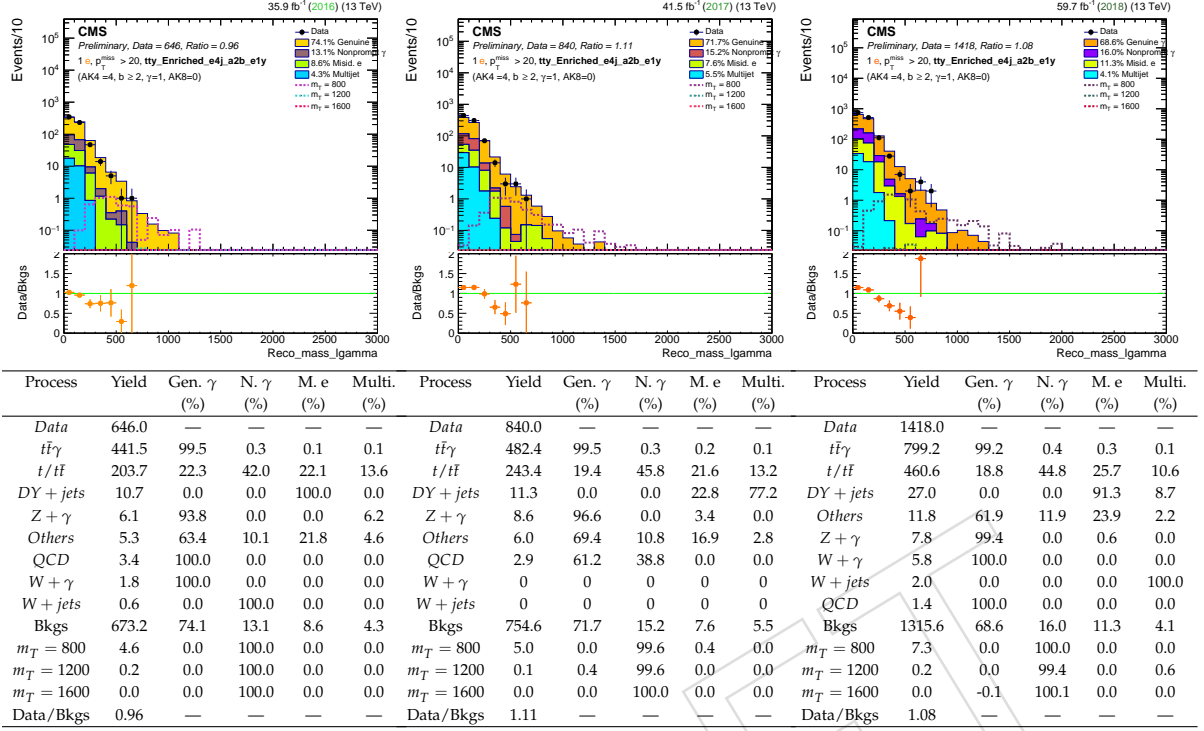


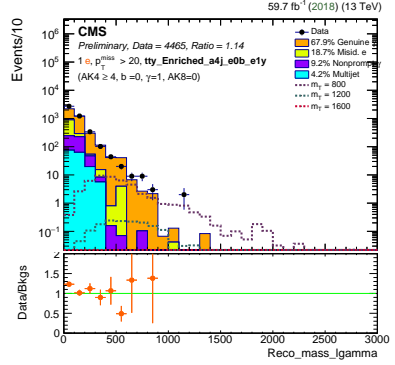
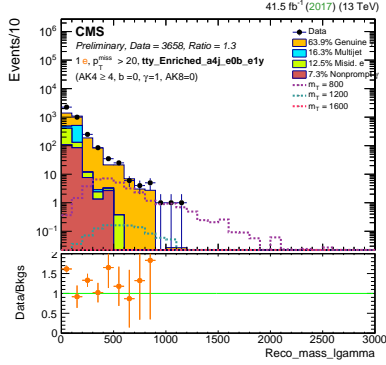
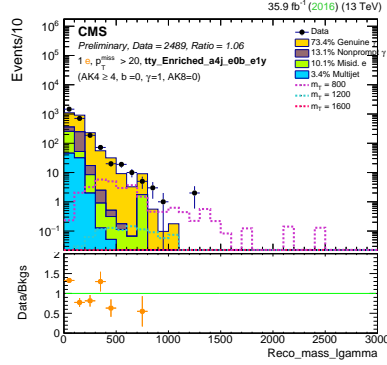
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	1779.0	—	—	—	—	Data	2322.0	—	—	—	—	Data	3621.0	—	—	—	—
$t\bar{t}\gamma$	1020.5	99.4	0.3	0.1	0.1	$t\bar{t}\gamma$	1118.2	99.5	0.3	0.1	0.1	$t\bar{t}\gamma$	1735.8	99.2	0.4	0.3	0.1
$t/\bar{t}\bar{t}$	507.7	23.7	44.5	20.1	11.8	$t/\bar{t}\bar{t}$	609.8	22.9	45.9	19.1	12.2	$t/\bar{t}\bar{t}$	1059.1	20.8	45.4	23.4	10.3
QCD	113.0	20.5	2.6	0.0	76.9	$W + \gamma$	105.8	96.9	3.1	0.0	0.0	$W + \gamma$	106.7	100.0	0.0	0.0	0.0
$W + \gamma$	99.0	100.0	0.0	0.0	0.0	$DY + jets$	56.1	0.0	0.0	81.0	19.0	$DY + jets$	100.4	0.0	0.0	95.4	4.6
$DY + jets$	48.1	3.4	0.0	90.4	6.1	QCD	51.9	52.2	47.8	0.0	0.0	$Z + \gamma$	54.9	97.2	0.0	2.8	0.0
$Z + \gamma$	39.1	97.1	1.9	0.0	1.0	$Z + \gamma$	32.1	97.3	0.0	2.7	0.0	Others	43.3	69.1	10.3	18.7	2.0
Others	16.3	69.7	9.4	16.5	4.3	Others	22.9	73.6	9.1	15.3	2.0	QCD	27.7	100.0	0.0	0.0	0.0
$W + jets$	9.8	0.0	90.9	0.5	8.6	$W + jets$	3.4	0.0	98.5	0.0	1.5	$W + jets$	20.5	0.0	66.5	0.0	33.5
Bkgs	1853.5	70.6	13.1	8.1	8.2	Bkgs	2000.0	71.5	15.8	8.4	4.3	Bkgs	3148.2	68.6	16.1	11.4	3.9
$m_T = 800$	12.9	0.0	100.0	0.0	0.0	$m_T = 800$	15.6	0.0	99.9	0.1	0.0	$m_T = 800$	23.3	0.0	99.6	0.4	0.0
$m_T = 1200$	0.4	0.0	99.1	0.9	0.0	$m_T = 1200$	0.4	0.1	99.9	0.0	0.0	$m_T = 1200$	0.6	0.0	99.5	0.3	0.2
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.2	99.3	0.2	0.2	$m_T = 1600$	0.0	0.4	99.6	0.0	0.0
Data/Bkgs	0.96	—	—	—	—	Data/Bkgs	1.16	—	—	—	—	Data/Bkgs	1.15	—	—	—	—



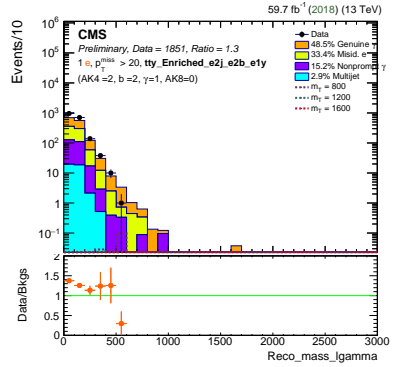
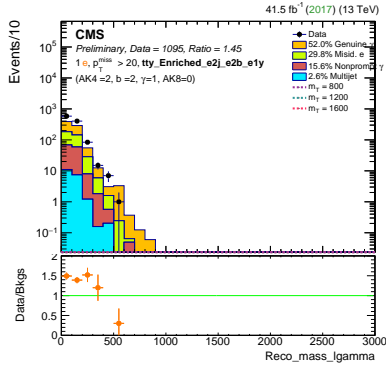
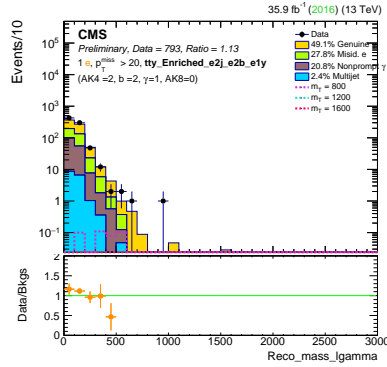
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	8721.0	—	—	—	—	Data	12949.0	—	—	—	—	Data	16545.0	—	—	—	—
$W + \gamma$	2799.6	99.7	0.2	0.1	0.0	$W + \gamma$	3140.4	99.7	0.3	0.0	0.1	$W + \gamma$	4913.5	99.8	0.0	0.1	0.0
$DY + jets$	991.2	0.6	7.2	85.9	6.3	$DY + jets$	1548.1	1.3	5.2	86.7	6.8	$DY + jets$	2945.4	1.5	5.5	89.7	3.2
QCD	989.1	76.4	20.2	0.3	3.1	$Z + \gamma$	1164.7	98.0	0.3	1.5	0.3	$Z + \gamma$	1527.5	98.2	0.1	1.6	0.1
$Z + \gamma$	922.4	98.5	0.1	1.2	0.3	QCD	1150.1	61.8	4.6	0.0	33.6	QCD	1451.1	82.3	10.7	0.0	7.1
$t\bar{t}\gamma$	693.9	99.4	0.3	0.2	0.1	$t\bar{t}\gamma$	735.8	99.3	0.4	0.2	0.1	$t\bar{t}\gamma$	980.1	99.2	0.4	0.2	0.1
$t/\bar{t}\bar{t}$	425.0	27.0	46.3	17.8	8.9	$t/\bar{t}\bar{t}$	502.1	28.7	43.7	18.0	9.6	$t/\bar{t}\bar{t}$	734.7	23.4	45.8	21.1	9.7
$W + jets$	293.7	0.3	61.8	0.5	37.5	$W + jets$	436.9	0.6	65.6	0.0	33.8	$W + jets$	675.3	0.0	60.5	0.6	38.9
Others	196.7	67.9	10.9	18.4	2.7	Others	288.2	75.6	7.1	14.3	2.9	Others	441.5	71.7	8.3	17.7	2.3
Bkgs	7311.7	73.9	9.3	13.4	3.4	Bkgs	8966.3	68.0	7.5	16.6	7.8	Bkgs	13669.1	66.6	8.1	21.3	4.0
$m_T = 800$	30.0	0.0	100.0	0.0	0.0	$m_T = 800$	37.8	0.1	99.9	0.0	0.0	$m_T = 800$	50.3	0.3	99.6	0.1	0.0
$m_T = 1200$	1.0	0.7	99.0	0.3	0.0	$m_T = 1200$	1.2	0.0	99.9	0.1	0.0	$m_T = 1200$	1.8	0.1	99.5	0.2	0.2
$m_T = 1600$	0.1	0.9	99.1	0.0	0.0	$m_T = 1600$	0.1	0.2	99.7	0.0	0.1	$m_T = 1600$	0.1	-0.2	100.1	0.1	-0.0
Data/Bkgs	1.19	—	—	—	—	Data/Bkgs	1.44	—	—	—	—	Data/Bkgs	1.21	—	—	—	—



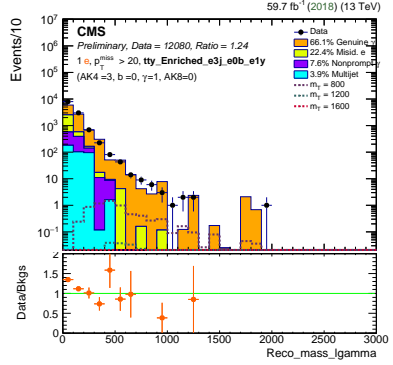
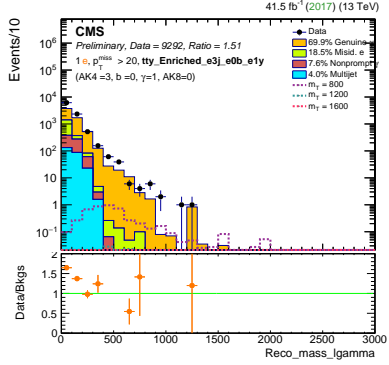
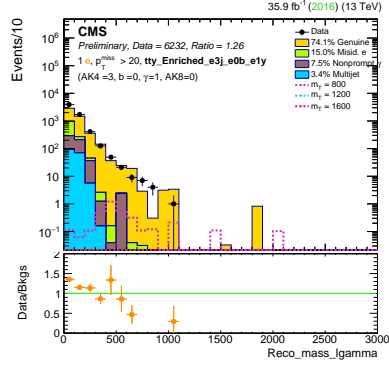




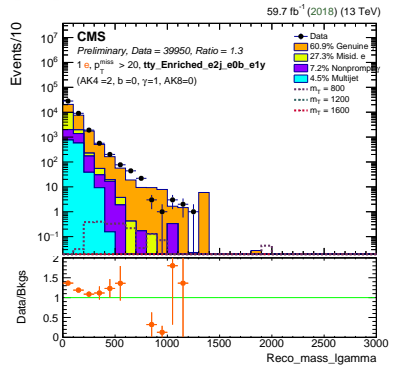
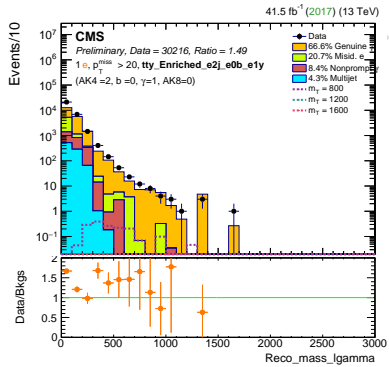
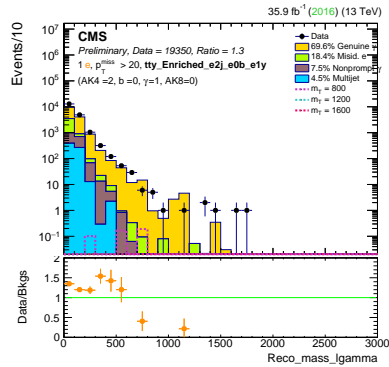
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	2489.0	—	—	—	—	Data	3658.0	—	—	—	—	Data	4465.0	—	—	—	—
$W + \gamma$	731.4	99.0	0.8	0.2	0.0	$W + \gamma$	801.3	99.8	0.0	0.0	0.2	$W + \gamma$	1321.6	99.9	0.0	0.0	0.1
QCD	569.5	71.6	25.6	0.5	2.2	QCD	641.0	44.2	0.6	0.0	55.1	QCD	727.2	1.5	5.7	88.7	4.1
$t\bar{t}\gamma$	313.4	99.6	0.2	0.1	0.1	$DY + jets$	372.5	1.6	7.1	80.4	10.9	$t\bar{t}\gamma$	481.2	86.3	13.4	0.0	0.3
$DY + jets$	226.2	0.0	8.2	85.3	6.5	$t\bar{t}\gamma$	332.9	99.5	0.3	0.1	0.1	$t\bar{t}\gamma$	436.2	99.3	0.4	0.2	0.1
$Z + \gamma$	200.3	97.4	0.3	2.0	0.4	$Z + \gamma$	249.2	96.4	0.2	2.9	0.6	$Z + \gamma$	306.2	97.7	-0.0	2.2	0.0
$t/\bar{t}$	166.9	25.9	47.5	15.7	10.9	$t/\bar{t}$	190.7	25.2	47.4	16.7	10.7	$t/\bar{t}$	293.9	22.7	47.6	18.8	10.8
$W + jets$	80.7	0.0	61.0	0.0	39.0	$W + jets$	112.9	0.0	67.5	0.0	32.5	$W + jets$	199.6	0.0	52.0	0.0	48.0
Others	67.3	69.3	11.8	16.7	2.2	Others	103.9	79.7	5.5	12.0	2.8	Others	154.7	75.5	7.2	15.2	2.1
Bkgs	2355.7	73.4	13.1	10.1	3.4	Bkgs	2804.4	63.9	7.3	12.5	16.3	Bkgs	3920.6	67.9	9.2	18.7	4.2
$m_T = 800$	27.8	0.0	100.0	0.0	0.0	$m_T = 800$	35.1	0.1	99.9	0.0	0.0	$m_T = 800$	46.0	0.4	99.5	0.1	0.0
$m_T = 1200$	1.0	0.7	99.3	0.0	0.0	$m_T = 1200$	1.2	0.0	99.9	0.1	0.0	$m_T = 1200$	1.7	0.1	99.5	0.2	0.2
$m_T = 1600$	0.1	0.8	99.2	0.0	0.0	$m_T = 1600$	0.1	0.3	99.6	0.0	0.1	$m_T = 1600$	0.1	-0.2	100.1	0.1	-0.0
Data/Bkgs	1.06	—	—	—	—	Data/Bkgs	1.3	—	—	—	—	Data/Bkgs	1.14	—	—	—	—



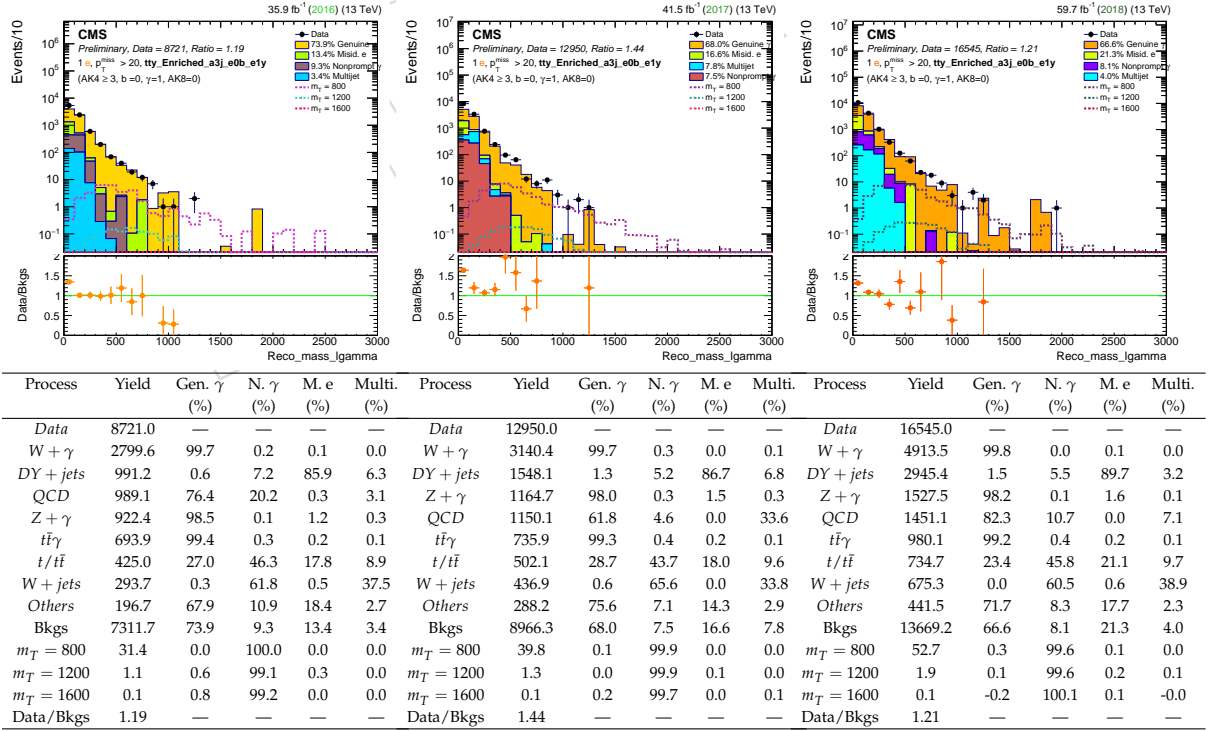
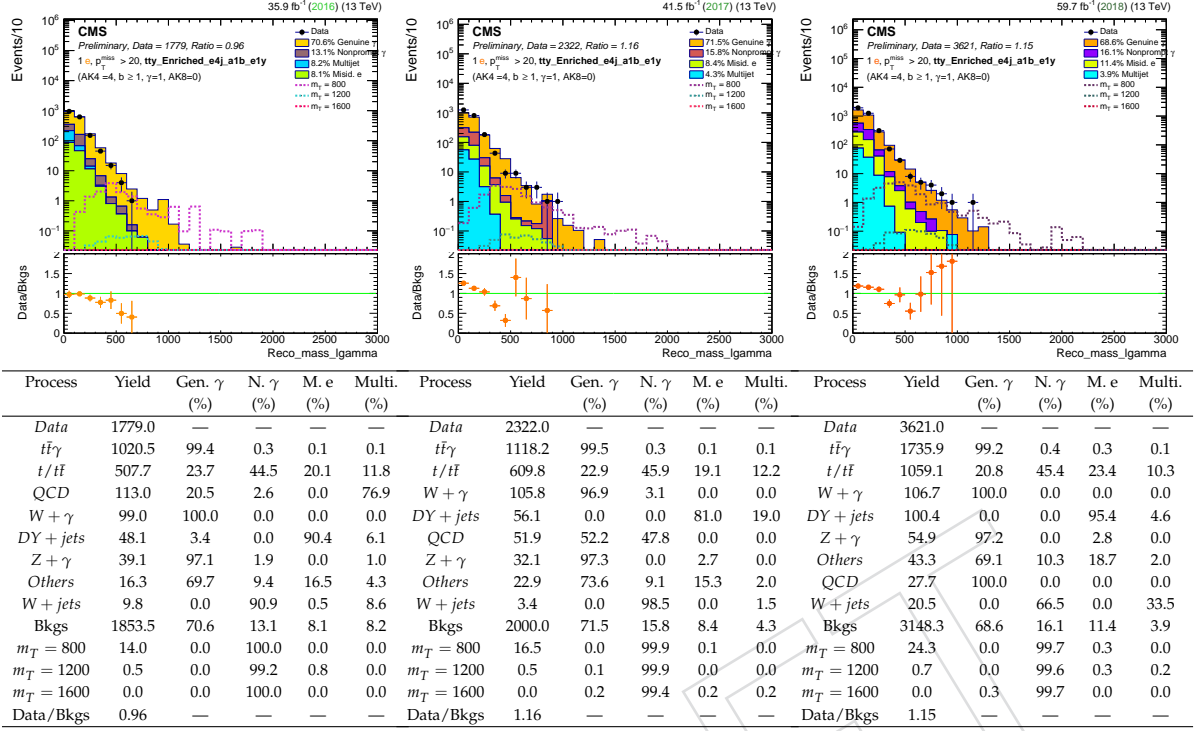
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	793.0	—	—	—	—	Data	1095.0	—	—	—	—	Data	1851.0	—	—	—	—
$t/\bar{t}$	336.4	19.8	30.8	44.6	4.7	$t/\bar{t}$	384.6	20.2	30.3	44.9	4.6	$t/\bar{t}$	795.2	19.9	26.5	49.1	4.5
$t\bar{t}\gamma$	253.7	98.9	0.4	0.6	0.1	$t\bar{t}\gamma$	282.0	98.7	0.4	0.8	0.2	$t\bar{t}\gamma$	477.3	98.6	0.4	0.9	0.1
$DY + jets$	43.5	0.0	4.1	95.8	0.0	$DY + jets$	50.9	0.0	0.0	96.5	3.5	$DY + jets$	80.4	0.0	4.0	96.0	0.0
QCD	36.3	1.5	98.5	0.0	0.0	$Z + \gamma$	17.3	99.6	0.0	0.4	0.0	$Z + \gamma$	29.1	98.4	0.0	1.6	0.0
$Z + \gamma$	22.4	100.0	0.0	0.0	0.0	$W + \gamma$	15.4	100.0	0.0	0.0	0.0	$W + \gamma$	17.8	100.0	0.0	0.0	0.0
Others	4.8	34.8	3.7	48.9	12.6	Others	3.9	62.7	5.9	29.4	2.0	Others	11.2	100.0	0.0	0.0	0.0
$W + jets$	3.8	0.0	100.0	0.0	0.0	QCD	2.4	100.0	0.0	0.0	0.0	Others	8.4	54.0	9.0	36.2	0.7
$W + \gamma$	3.3	100.0	0.0	0.0	0.0	$W + jets$	0	0	0	0	0	$W + jets$	4.7	0.0	0.0	0.0	100.0
Bkgs	704.2	49.1	20.8	27.8	2.4	Bkgs	756.4	52.0	15.6	29.8	2.6	Bkgs	1424.0	48.5	15.2	33.4	2.9
$m_T = 800$	0.4	0.0	100.0	0.0	0.0	$m_T = 800$	0.0	0.0	100.0	0.0	0.0	$m_T = 800$	0.1	0.0	100.0	0.0	0.0
$m_T = 1200$	0.0	0.0	100.0	0.0	0.0	$m_T = 1200$	0.0	0.0	100.0	0.0	0.0	$m_T = 1200$	0.0	0.0	100.0	0.0	0.0
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0
Data/Bkgs	1.13	—	—	—	—	Data/Bkgs	1.45	—	—	—	—	Data/Bkgs	1.3	—	—	—	—

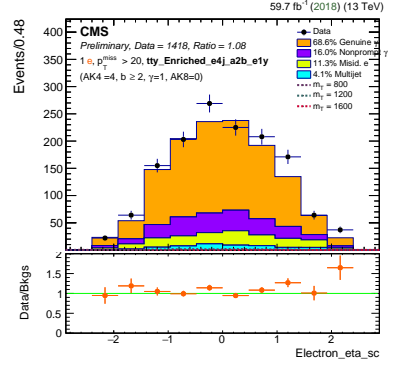
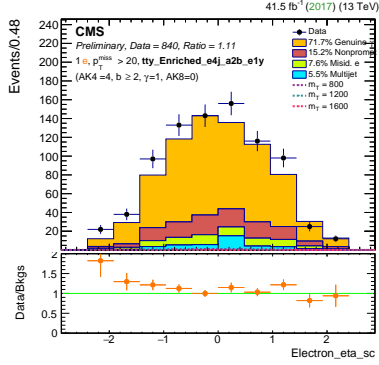
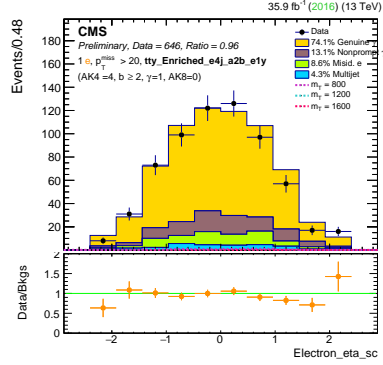


Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	6232.0	—	—	—	—	Data	9292.0	—	—	—	—	Data	12080.0	—	—	—	—
$W + \gamma$	2068.2	99.9	0.0	0.0	0.0	$W + \gamma$	2339.1	99.6	0.4	0.0	0.0	$W + \gamma$	3591.9	99.8	0.1	0.2	0.0
$DY + jets$	765.0	0.8	6.8	86.1	6.2	$DY + jets$	1175.6	1.2	4.6	88.7	5.5	$DY + jets$	2218.2	1.5	5.4	90.1	2.9
$Z + \gamma$	722.1	98.7	-0.0	0.9	0.3	$Z + \gamma$	915.6	98.4	0.3	1.1	0.2	$Z + \gamma$	1221.3	98.3	0.2	1.4	0.1
QCD	419.6	82.9	12.9	0.0	4.2	QCD	509.1	84.0	9.6	0.0	6.5	QCD	969.9	80.3	9.3	0.0	10.4
$t\bar{t}\gamma$	380.6	99.2	0.4	0.2	0.2	$t\bar{t}\gamma$	402.9	99.2	0.4	0.2	0.1	$t\bar{t}\gamma$	543.9	99.1	0.4	0.3	0.1
$t/\bar{t}$	258.2	27.8	45.6	19.1	7.5	$W + jets$	324.0	0.8	64.9	0.0	34.3	$W + jets$	475.8	0.0	64.1	0.8	35.1
$W + jets$	212.9	0.4	62.1	0.7	36.9	$t/\bar{t}$	311.3	30.8	41.4	18.8	9.0	$t/\bar{t}$	440.8	23.9	44.6	22.7	8.9
Others	129.4	67.2	10.5	19.4	3.0	Others	184.2	73.3	8.1	15.6	3.0	Others	286.8	69.7	8.8	19.1	2.5
Bkgs	4956.0	74.1	7.5	15.0	3.4	Bkgs	6161.9	69.9	7.6	18.5	4.0	Bkgs	9748.6	66.1	7.6	22.4	3.9
$m_T = 800$	3.6	0.0	100.0	0.0	0.0	$m_T = 800$	4.8	0.0	100.0	0.0	0.0	$m_T = 800$	6.7	0.0	100.0	0.0	0.0
$m_T = 1200$	0.1	0.0	96.9	3.1	0.0	$m_T = 1200$	0.1	0.0	100.0	0.0	0.0	$m_T = 1200$	0.2	0.0	100.0	0.0	0.0
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	-0.9	100.9	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0
Data/Bkgs	1.26	—	—	—	—	Data/Bkgs	1.51	—	—	—	—	Data/Bkgs	1.24	—	—	—	—

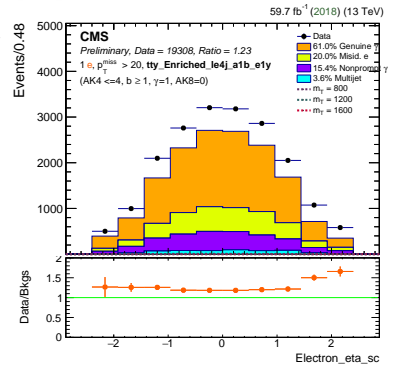
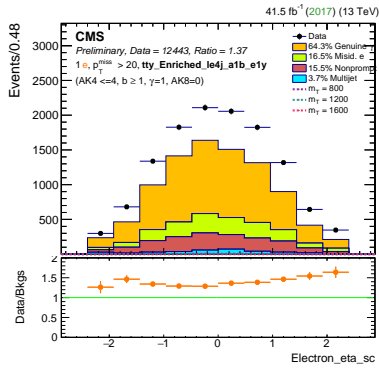
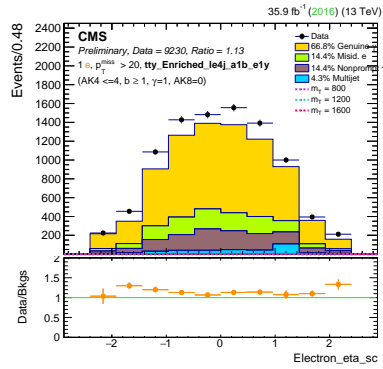


Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	19350.0	—	—	—	—	Data	30216.0	—	—	—	—	Data	39950.0	—	—	—	—
$W + \gamma$	5878.3	99.9	0.0	0.0	0.1	$W + \gamma$	7778.7	99.8	0.1	0.0	0.1	$W + \gamma$	10970.0	99.8	0.1	0.0	0.1
$DY + jets$	2899.8	1.1	6.9	87.3	4.7	$DY + jets$	4488.8	1.0	5.3	88.5	5.1	$DY + jets$	8848.5	1.4	4.6	90.3	3.7
$Z + \gamma$	2744.4	98.8	0.1	0.9	0.1	$Z + \gamma$	3757.7	98.5	0.1	1.1	0.2	$Z + \gamma$	5119.4	98.3	0.0	1.5	0.2
QCD	1373.2	72.6	12.2	0.2	15.0	QCD	1668.5	70.7	23.7	0.0	5.6	$W + jets$	1958.7	0.7	62.3	0.0	37.0
$W + jets$	809.8	0.0	65.4	0.4	34.3	$W + jets$	1310.7	0.0	62.8	0.2	37.0	QCD	1861.0	77.2	9.9	0.0	12.9
$t/\bar{t}$	480.5	33.6	37.3	22.3	6.8	$t/\bar{t}$	504.4	30.5	39.3	22.4	7.9	$t/\bar{t}$	766.7	24.8	40.7	27.0	7.5
$t\bar{t}\gamma$	435.4	99.2	0.4	0.3	0.1	$t\bar{t}\gamma$	471.9	99.2	0.4	0.3	0.1	$t\bar{t}\gamma$	655.5	99.1	0.5	0.4	0.1
Others	244.1	57.2	13.0	25.7	4.2	Others	348.2	65.0	12.9	19.1	2.9	Others	529.8	59.4	13.7	23.6	3.3
Bkgs	14865.4	69.6	7.5	18.4	4.5	Bkgs	20328.9	66.6	8.4	20.7	4.3	Bkgs	30709.6	60.9	7.2	27.3	4.5
$m_T = 800$	0.5	0.0	100.0	0.0	0.0	$m_T = 800$	1.6	1.4	98.6	0.0	0.0	$m_T = 800$	2.0	0.0	100.0	0.0	0.0
$m_T = 1200$	0.0	0.0	100.0	0.0	0.0	$m_T = 1200$	0.0	2.8	98.1	-1.0	0.0	$m_T = 1200$	0.1	0.0	98.0	2.0	0.0
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0
Data/Bkgs	1.3	—	—	—	—	Data/Bkgs	1.49	—	—	—	—	Data/Bkgs	1.3	—	—	—	—

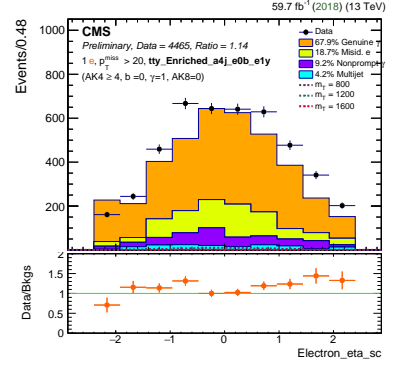
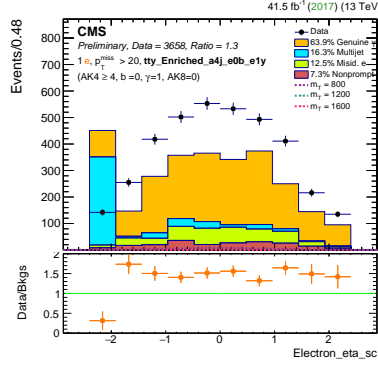
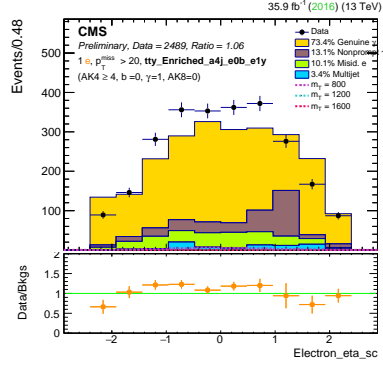




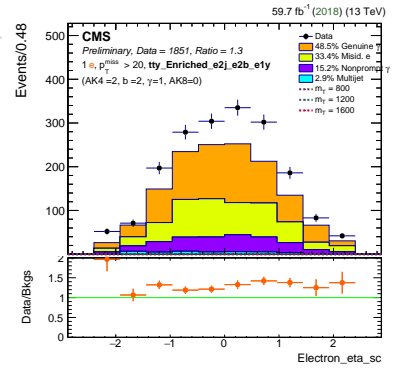
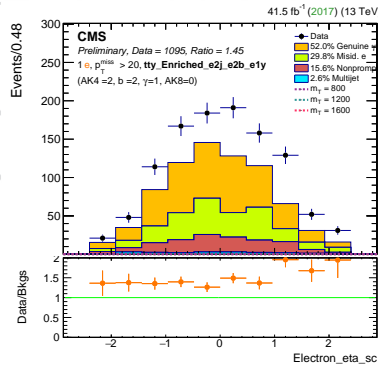
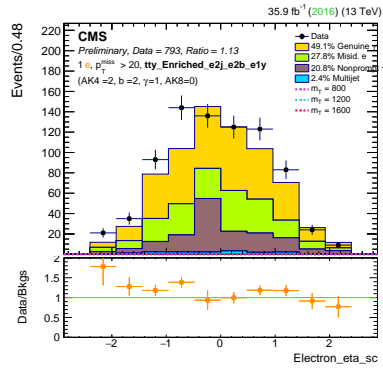
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	646.0	—	—	—	—	Data	840.0	—	—	—	—	Data	1418.0	—	—	—	—
$t\bar{t}\gamma$	441.5	99.5	0.3	0.1	0.1	$t\bar{t}\gamma$	482.4	99.5	0.3	0.2	0.1	$t\bar{t}\gamma$	799.3	99.2	0.4	0.3	0.1
$t/\bar{t}\bar{t}$	203.7	22.3	42.0	22.1	13.6	$t/\bar{t}\bar{t}$	243.4	19.4	45.8	21.6	13.2	$t/\bar{t}\bar{t}$	460.6	18.8	44.8	25.7	10.6
$DY + jets$	10.7	0.0	0.0	100.0	0.0	$DY + jets$	11.3	0.0	0.0	22.8	77.2	$DY + jets$	27.0	0.0	0.0	91.3	8.7
$Z + \gamma$	6.1	93.8	0.0	0.0	6.2	$Z + \gamma$	8.6	96.6	0.0	3.4	0.0	$Z + \gamma$	11.8	61.9	11.9	23.9	2.2
Others	5.3	63.4	10.1	21.8	4.6	Others	6.0	69.4	10.8	16.9	2.8	Others	7.8	99.4	0.0	0.6	0.0
QCD	3.4	100.0	0.0	0.0	0.0	QCD	2.9	61.2	38.8	0.0	0.0	QCD	5.8	100.0	0.0	0.0	0.0
$W + \gamma$	1.8	100.0	0.0	0.0	0.0	$W + \gamma$	0	0	0	0	0	$W + \gamma$	2.0	0.0	0.0	0.0	100.0
$W + jets$	0.6	0.0	100.0	0.0	0.0	$W + jets$	0	0	0	0	0	QCD	1.4	100.0	0.0	0.0	0.0
Bkgs	673.2	74.1	13.1	8.6	4.3	Bkgs	754.6	71.7	15.2	7.6	5.5	Bkgs	1315.6	68.6	16.0	11.3	4.1
$m_T = 800$	4.6	0.0	100.0	0.0	0.0	$m_T = 800$	5.0	0.0	99.6	0.4	0.0	$m_T = 800$	7.3	0.0	100.0	0.0	0.0
$m_T = 1200$	0.2	0.0	100.0	0.0	0.0	$m_T = 1200$	0.1	0.4	99.6	0.0	0.0	$m_T = 1200$	0.2	0.0	99.4	0.0	0.6
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	-0.1	100.1	0.0	0.0
Data/Bkgs	0.96	—	—	—	—	Data/Bkgs	1.11	—	—	—	—	Data/Bkgs	1.08	—	—	—	—



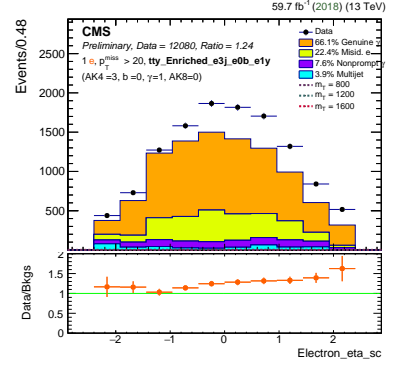
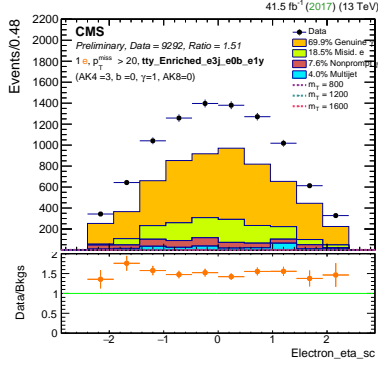
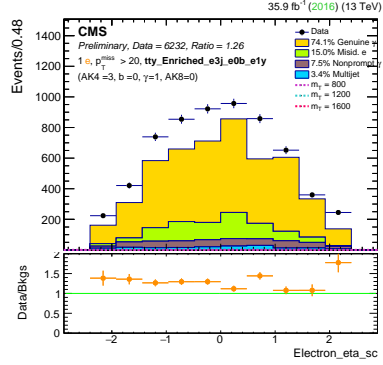
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	9230.0	—	—	—	—	Data	12443.0	—	—	—	—	Data	19308.0	—	—	—	—
$t\bar{t}\gamma$	3388.3	99.3	0.4	0.3	0.1	$t\bar{t}\gamma$	3747.3	99.2	0.4	0.3	0.1	$t\bar{t}\gamma$	5865.9	99.0	0.4	0.4	0.1
$t/\bar{t}\bar{t}$	2636.6	25.0	39.1	27.8	8.2	$t/\bar{t}\bar{t}$	3130.4	24.8	39.8	27.2	8.2	$t/\bar{t}\bar{t}$	5678.1	22.3	38.1	32.2	7.4
$W + \gamma$	745.4	100.0	0.0	0.0	0.0	$W + \gamma$	737.7	99.0	0.4	0.6	0.0	$DY + jets$	1356.3	1.2	3.2	91.2	4.5
$DY + jets$	470.6	1.5	5.1	88.2	5.2	$DY + jets$	674.0	1.3	2.0	90.8	5.8	$W + \gamma$	1302.7	100.0	0.0	0.0	0.0
$Z + \gamma$	418.3	98.3	0.2	1.3	0.2	$Z + \gamma$	423.8	98.7	0.1	1.3	0.0	$Z + \gamma$	686.3	97.3	0.0	2.4	0.2
QCD	363.2	63.4	12.3	0.0	24.3	QCD	202.1	72.8	26.4	0.0	0.7	QCD	429.2	95.8	2.6	0.0	1.7
$W + jets$	76.8	0.0	74.5	1.1	24.4	$W + jets$	102.1	0.0	68.4	2.1	29.4	$W + jets$	225.2	0.0	67.6	0.0	32.4
Others	71.2	63.4	8.9	23.4	4.4	Others	89.5	68.0	9.4	19.3	3.3	Others	170.4	63.4	9.7	23.9	3.0
Bkgs	8170.5	66.8	14.4	14.4	4.3	Bkgs	9106.9	64.3	15.5	16.5	3.7	Bkgs	15714.0	61.0	15.4	20.0	3.6
$m_T = 800$	22.0	0.0	100.0	0.0	0.0	$m_T = 800$	24.0	0.0	99.9	0.1	0.0	$m_T = 800$	35.1	0.1	99.6	0.3	0.0
$m_T = 1200$	0.7	0.0	99.0	1.0	0.0	$m_T = 1200$	0.7	0.1	99.8	0.1	0.0	$m_T = 1200$	1.0	0.0	99.7	0.2	0.1
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.2	99.6	0.2	0.1	$m_T = 1600$	0.1	0.2	99.8	0.0	0.0
Data/Bkgs	1.13	—	—	—	—	Data/Bkgs	1.37	—	—	—	—	Data/Bkgs	1.23	—	—	—	—



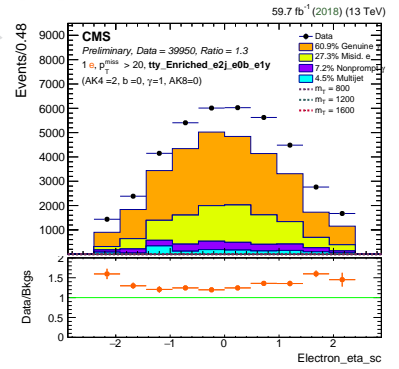
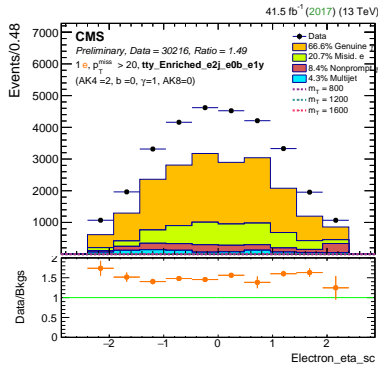
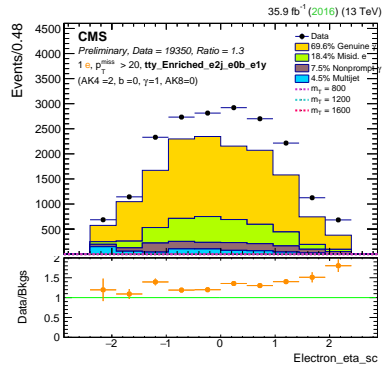
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	2489.0	—	—	—	—	Data	3658.0	—	—	—	—	Data	4465.0	—	—	—	—
$W + \gamma$	731.4	99.0	0.8	0.2	0.0	$W + \gamma$	801.3	99.8	0.0	0.0	0.2	$W + \gamma$	1321.6	99.9	0.0	0.0	0.1
QCD	569.5	71.6	25.6	0.5	2.2	QCD	641.0	44.2	0.6	0.0	55.1	$DY + jets$	727.2	1.5	5.7	88.7	4.1
$t\bar{t}\gamma$	313.4	99.6	0.2	0.1	0.1	$DY + jets$	372.5	1.6	7.1	80.4	10.9	QCD	481.2	86.3	13.4	0.0	0.3
$DY + jets$	226.2	0.0	8.2	85.3	6.5	$t\bar{t}\gamma$	332.9	99.5	0.3	0.1	0.1	$t\bar{t}\gamma$	436.2	99.3	0.4	0.2	0.1
$Z + \gamma$	200.3	97.4	0.3	2.0	0.4	$Z + \gamma$	249.2	96.4	0.2	2.9	0.6	$Z + \gamma$	306.2	97.7	-0.0	2.2	0.0
$t/\bar{t}$	166.9	25.9	47.5	15.7	10.9	$t/\bar{t}$	190.7	25.2	47.4	16.7	10.7	$t/\bar{t}$	293.9	22.7	47.6	18.8	10.8
$W + jets$	80.7	0.0	61.0	0.0	39.0	$W + jets$	112.9	0.0	67.5	0.0	32.5	$W + jets$	199.6	0.0	52.0	0.0	48.0
Others	67.3	69.3	11.8	16.7	2.2	Others	103.9	79.7	5.5	12.0	2.8	Others	154.7	75.5	7.2	15.2	2.1
Bkgs	2355.7	73.4	13.1	10.1	3.4	Bkgs	2804.4	63.9	7.3	12.5	16.3	Bkgs	3920.6	67.9	9.2	18.7	4.2
$m_T = 800$	27.8	0.0	100.0	0.0	0.0	$m_T = 800$	35.1	0.1	99.9	0.0	0.0	$m_T = 800$	46.0	0.4	99.5	0.1	0.0
$m_T = 1200$	1.0	0.7	99.3	0.0	0.0	$m_T = 1200$	1.2	0.0	99.9	0.1	0.0	$m_T = 1200$	1.7	0.1	99.5	0.2	0.2
$m_T = 1600$	0.1	0.8	99.2	0.0	0.0	$m_T = 1600$	0.1	0.3	99.5	0.0	0.1	$m_T = 1600$	0.1	-0.2	100.1	0.1	-0.0
Data/Bkgs	1.06	—	—	—	—	Data/Bkgs	1.3	—	—	—	—	Data/Bkgs	1.14	—	—	—	—



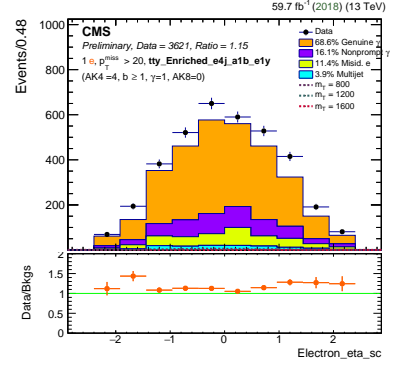
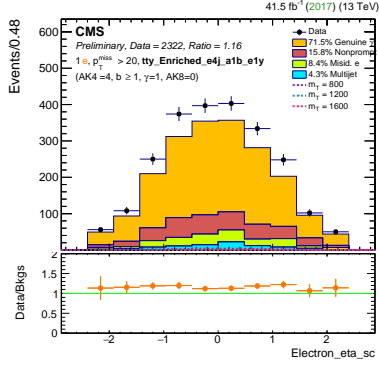
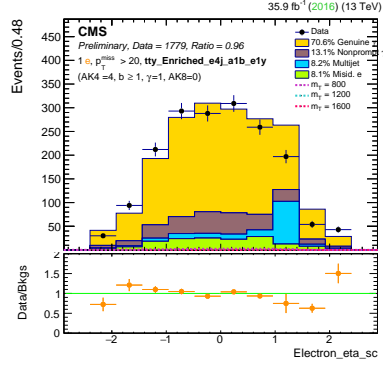
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	793.0	—	—	—	—	Data	1095.0	—	—	—	—	Data	1851.0	—	—	—	—
$t/\bar{t}$	336.4	19.8	30.8	44.6	4.7	$t/\bar{t}$	384.6	20.2	30.3	44.9	4.6	$t/\bar{t}$	795.2	19.9	26.5	49.1	4.5
$t\bar{t}\gamma$	253.7	98.9	0.4	0.6	0.1	$t\bar{t}\gamma$	282.0	98.7	0.4	0.8	0.2	$t\bar{t}\gamma$	477.3	98.6	0.4	0.9	0.1
$DY + jets$	43.5	0.0	4.1	95.8	0.0	$DY + jets$	50.9	0.0	0.0	96.5	3.5	$DY + jets$	80.4	0.0	4.0	96.0	0.0
QCD	36.3	1.5	98.5	0.0	0.0	$Z + \gamma$	17.3	99.6	0.0	0.4	0.0	$Z + \gamma$	29.1	98.4	0.0	1.6	0.0
$Z + \gamma$	22.4	100.0	0.0	0.0	0.0	$W + \gamma$	15.4	100.0	0.0	0.0	0.0	$W + \gamma$	17.8	100.0	0.0	0.0	0.0
Others	4.8	34.8	3.7	48.9	12.6	Others	3.9	62.7	5.9	29.4	2.0	QCD	11.2	100.0	0.0	0.0	0.0
$W + jets$	3.8	0.0	100.0	0.0	0.0	QCD	2.4	100.0	0.0	0.0	0.0	Others	8.4	54.0	9.0	36.2	0.7
$W + \gamma$	3.3	100.0	0.0	0.0	0.0	$W + jets$	0	0	0	0	0	$W + jets$	4.7	0.0	0.0	0.0	100.0
Bkgs	704.2	49.1	20.8	27.8	2.4	Bkgs	756.4	52.0	15.6	29.8	2.6	Bkgs	1424.0	48.5	15.2	33.4	2.9
$m_T = 800$	0.4	0.0	100.0	0.0	0.0	$m_T = 800$	0.0	0.0	100.0	0.0	0.0	$m_T = 800$	0.1	0.0	100.0	0.0	0.0
$m_T = 1200$	0.0	0.0	100.0	0.0	0.0	$m_T = 1200$	0.0	0.0	100.0	0.0	0.0	$m_T = 1200$	0.0	0.0	100.0	0.0	0.0
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0
Data/Bkgs	1.13	—	—	—	—	Data/Bkgs	1.45	—	—	—	—	Data/Bkgs	1.3	—	—	—	—



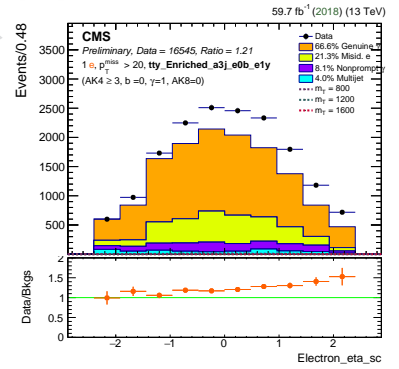
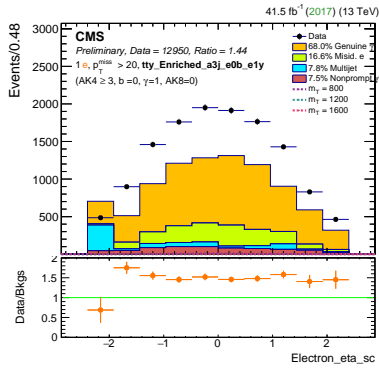
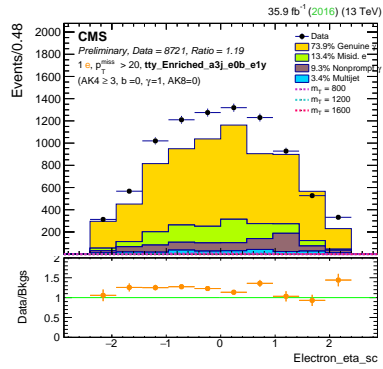
Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	6232.0	—	—	—	—	Data	9292.0	—	—	—	—	Data	12080.0	—	—	—	—
$W + \gamma$	2068.2	99.9	0.0	0.0	0.0	$W + \gamma$	2339.1	99.6	0.4	0.0	0.0	$W + \gamma$	3591.9	99.8	0.1	0.2	0.0
$DY + jets$	765.0	0.8	6.8	86.1	6.2	$DY + jets$	1175.6	1.2	4.6	88.7	5.5	$DY + jets$	2218.2	1.5	5.4	90.1	2.9
$Z + \gamma$	722.1	98.7	-0.0	0.9	0.3	$Z + \gamma$	915.6	98.4	0.3	1.1	0.2	$Z + \gamma$	1221.3	98.3	0.2	1.4	0.1
QCD	419.6	82.9	12.9	0.0	4.2	QCD	509.1	84.0	9.6	0.0	6.5	QCD	969.9	80.3	9.3	0.0	10.4
$t\bar{t}\gamma$	380.6	99.2	0.4	0.2	0.2	$t\bar{t}\gamma$	402.9	99.2	0.4	0.2	0.1	$t\bar{t}\gamma$	543.9	99.1	0.4	0.3	0.1
$t/\bar{t}$	258.2	27.8	45.6	19.1	7.5	$W + jets$	324.0	0.8	64.9	0.0	34.3	$W + jets$	475.8	0.0	64.1	0.8	35.1
$W + jets$	212.9	0.4	62.1	0.7	36.9	$t/\bar{t}$	311.3	30.8	41.4	18.8	9.0	$t/\bar{t}$	440.8	23.9	44.6	22.7	8.9
Others	129.4	67.2	10.5	19.4	3.0	Others	184.2	73.3	8.1	15.6	3.0	Others	286.8	69.7	8.8	19.1	2.5
Bkgs	4956.0	74.1	7.5	15.0	3.4	Bkgs	6161.9	69.9	7.6	18.5	4.0	Bkgs	9748.6	66.1	7.6	22.4	3.9
$m_T = 800$	3.6	0.0	100.0	0.0	0.0	$m_T = 800$	4.8	0.0	100.0	0.0	0.0	$m_T = 800$	6.7	0.0	100.0	0.0	0.0
$m_T = 1200$	0.1	0.0	96.9	3.1	0.0	$m_T = 1200$	0.1	0.0	100.0	0.0	0.0	$m_T = 1200$	0.2	0.0	100.0	0.0	0.0
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	-0.9	100.9	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0
Data/Bkgs	1.26	—	—	—	—	Data/Bkgs	1.51	—	—	—	—	Data/Bkgs	1.24	—	—	—	—



Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	19350.0	—	—	—	—	Data	30216.0	—	—	—	—	Data	39950.0	—	—	—	—
$W + \gamma$	5878.3	99.9	0.0	0.0	0.1	$W + \gamma$	7778.7	99.8	0.1	0.0	0.1	$W + \gamma$	10970.0	99.8	0.1	0.0	0.1
$DY + jets$	2899.8	1.1	6.9	87.3	4.7	$DY + jets$	4488.8	1.0	5.3	88.5	5.1	$DY + jets$	8848.5	1.4	4.6	90.3	3.7
$Z + \gamma$	2744.4	98.8	0.1	0.9	0.1	$Z + \gamma$	3757.7	98.5	0.1	1.1	0.2	$Z + \gamma$	5119.4	98.3	0.0	1.5	0.2
QCD	1373.2	72.6	12.2	0.2	15.0	QCD	1668.5	70.7	23.7	0.0	5.6	$W + jets$	1958.7	0.7	62.3	0.0	37.0
$W + jets$	809.8	0.0	65.4	0.4	34.3	$W + jets$	1310.7	0.0	62.8	0.2	37.0	QCD	1861.0	77.2	9.9	0.0	12.9
$t/\bar{t}$	480.5	33.6	37.3	22.3	6.8	$t/\bar{t}$	504.4	30.5	39.3	22.4	7.9	$t/\bar{t}$	766.7	24.8	40.7	27.0	7.5
$t\bar{t}\gamma$	435.4	99.2	0.4	0.3	0.1	$t\bar{t}\gamma$	471.9	99.2	0.4	0.3	0.1	$t\bar{t}\gamma$	655.5	99.1	0.5	0.4	0.1
Others	244.1	57.2	13.0	25.7	4.2	Others	348.2	65.0	12.9	19.1	2.9	Others	529.8	59.4	13.7	23.6	3.3
Bkgs	14865.4	69.6	7.5	18.4	4.5	Bkgs	20328.9	66.6	8.4	20.7	4.3	Bkgs	30709.6	60.9	7.2	27.3	4.5
$m_T = 800$	0.5	0.0	100.0	0.0	0.0	$m_T = 800$	1.6	1.4	98.6	0.0	0.0	$m_T = 800$	2.0	0.0	100.0	0.0	0.0
$m_T = 1200$	0.0	0.0	100.0	0.0	0.0	$m_T = 1200$	0.0	2.8	98.1	-1.0	0.0	$m_T = 1200$	0.1	0.0	98.0	2.0	0.0
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.0	100.0	0.0	0.0
Data/Bkgs	1.3	—	—	—	—	Data/Bkgs	1.49	—	—	—	—	Data/Bkgs	1.3	—	—	—	—



Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	1779.0	—	—	—	—	Data	2322.0	—	—	—	—	Data	3621.0	—	—	—	—
$t\bar{t}\gamma$	1020.5	99.4	0.3	0.1	0.1	$t\bar{t}\gamma$	1118.2	99.5	0.3	0.1	0.1	$t\bar{t}\gamma$	1735.9	99.2	0.4	0.3	0.1
$t/\bar{t}\bar{t}$	507.7	23.7	44.5	20.1	11.8	$t/\bar{t}\bar{t}$	609.8	22.9	45.9	19.1	12.2	$t/\bar{t}\bar{t}$	1059.1	20.8	45.4	23.4	10.3
QCD	113.0	20.5	2.6	0.0	76.9	$W + \gamma$	105.8	96.9	3.1	0.0	0.0	$W + \gamma$	106.7	100.0	0.0	0.0	0.0
$W + \gamma$	99.0	100.0	0.0	0.0	0.0	$DY + jets$	56.1	0.0	0.0	81.0	19.0	$DY + jets$	100.4	0.0	0.0	95.4	4.6
$DY + jets$	48.1	3.4	0.0	90.4	6.1	QCD	51.9	52.2	47.8	0.0	0.0	$Z + \gamma$	54.9	97.2	0.0	2.8	0.0
$Z + \gamma$	39.1	97.1	1.9	0.0	1.0	$Z + \gamma$	32.1	97.3	0.0	2.7	0.0	Others	43.3	69.1	10.3	18.7	2.0
Others	16.3	69.7	9.4	16.5	4.3	Others	22.9	73.6	9.1	15.3	2.0	QCD	27.7	100.0	0.0	0.0	0.0
$W + jets$	9.8	0.0	90.9	0.5	8.6	$W + jets$	3.4	0.0	98.5	0.0	1.5	$W + jets$	20.5	0.0	66.5	0.0	33.5
Bkgs	1853.5	70.6	13.1	8.1	8.2	Bkgs	2000.0	71.5	15.8	8.4	4.3	Bkgs	3148.3	68.6	16.1	11.4	3.9
$m_T = 800$	14.0	0.0	100.0	0.0	0.0	$m_T = 800$	16.5	0.0	99.9	0.1	0.0	$m_T = 800$	24.3	0.0	99.7	0.3	0.0
$m_T = 1200$	0.5	0.0	99.2	0.8	0.0	$m_T = 1200$	0.5	0.1	99.9	0.0	0.0	$m_T = 1200$	0.7	0.0	99.6	0.3	0.2
$m_T = 1600$	0.0	0.0	100.0	0.0	0.0	$m_T = 1600$	0.0	0.2	99.4	0.2	0.2	$m_T = 1600$	0.0	0.3	99.7	0.0	0.0
Data/Bkgs	0.96	—	—	—	—	Data/Bkgs	1.16	—	—	—	—	Data/Bkgs	1.15	—	—	—	—



Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)	Process	Yield	Gen. $\gamma$ (%)	N. $\gamma$ (%)	M. e (%)	Multi. (%)
Data	8721.0	—	—	—	—	Data	12950.0	—	—	—	—	Data	16545.0	—	—	—	—
$W + \gamma$	2799.6	99.7	0.2	0.1	0.0	$W + \gamma$	3140.4	99.7	0.3	0.0	0.1	$W + \gamma$	4913.5	99.8	0.0	0.1	0.0
$DY + jets$	991.2	0.6	7.2	85.9	6.3	$DY + jets$	1548.1	1.3	5.2	86.7	6.8	$DY + jets$	2945.4	1.5	5.5	89.7	3.2
QCD	989.1	76.4	20.2	0.3	3.1	$Z + \gamma$	1164.7	98.0	0.3	1.5	0.3	$Z + \gamma$	1527.5	98.2	0.1	1.6	0.1
$Z + \gamma$	922.4	98.5	0.1	1.2	0.3	QCD	1150.1	61.8	4.6	0.0	33.6	QCD	1451.1	82.3	10.7	0.0	7.1
$t\bar{t}\gamma$	693.9	99.4	0.3	0.2	0.1	$t\bar{t}\gamma$	735.9	99.3	0.4	0.2	0.1	$t\bar{t}\gamma$	980.1	99.2	0.4	0.2	0.1
$t/\bar{t}\bar{t}$	425.0	27.0	46.3	17.8	8.9	$t/\bar{t}\bar{t}$	502.1	28.7	43.7	18.0	9.6	$t/\bar{t}\bar{t}$	734.7	23.4	45.8	21.1	9.7
$W + jets$	293.7	0.3	61.8	0.5	37.5	$W + jets$	436.9	0.6	65.6	0.0	33.8	$W + jets$	675.3	0.0	60.5	0.6	38.9
Others	196.7	67.9	10.9	18.4	2.7	Others	288.2	75.6	7.1	14.3	2.9	Others	441.5	71.7	8.3	17.7	2.3
Bkgs	7311.7	73.9	9.3	13.4	3.4	Bkgs	8966.4	68.0	7.5	16.6	7.8	Bkgs	13669.2	66.6	8.1	21.3	4.0
$m_T = 800$	31.4	0.0	100.0	0.0	0.0	$m_T = 800$	39.8	0.1	99.9	0.0	0.0	$m_T = 800$	52.7	0.3	99.6	0.1	0.0
$m_T = 1200$	1.1	0.6	99.1	0.3	0.0	$m_T = 1200$	1.3	0.0	99.9	0.1	0.0	$m_T = 1200$	1.9	0.1	99.6	0.2	0.1
$m_T = 1600$	0.1	0.8	99.2	0.0	0.0	$m_T = 1600$	0.1	0.2	99.7	0.0	0.1	$m_T = 1600$	0.1	-0.2	100.1	0.1	-0.0
Data/Bkgs	1.19	—	—	—	—	Data/Bkgs	1.44	—	—	—	—	Data/Bkgs	1.21	—	—	—	—