

| m_a (GeV) | Min. BDT output value | Signal efficiency | Background yields |
|-------------|--------------------------|-------------------|-------------------|
| 1 | 0.955 | 0.492 | 83.2 ± 27.3 |
| 2 | 0.980 | 0.669 | 26.4 ± 10.3 |
| 3 | 0.985 | 0.763 | 7.89 ± 4.87 |
| 4 | 0.980 | 0.842 | 5.06 ± 4.50 |
| 5 | 0.985 | 0.849 | 5.12 ± 3.92 |
| 6 | 0.990 | 0.817 | 2.49 ± 2.24 |
| 7 | 0.985 | 0.860 | 5.26 ± 3.98 |
| 8 | 0.990 | 0.799 | 11.4 ± 4.78 |
| 9 | 0.990 | 0.784 | 15.5 ± 5.60 |
| 10 | 0.990 | 0.771 | 10.8 ± 4.65 |
| 15 | 0.990 | 0.701 | 13.4 ± 5.23 |
| 20 | 0.990 | 0.626 | 18.4 ± 6.12 |
| 25 | 0.985 | 0.644 | 36.6 ± 10.5 |
| 30 | 0.980 | 0.674 | 43.6 ± 13.2 |