Table 2.1: Quality trimming of the good quality data with QTrim and other tested methods at a mean quality of 20 (Q20) and 30 (Q30) and minimum read length of 50. The table shows the total sequence reads, mean read length, percentage of total bases in output and percentage of poor quality bases in the output file by all methods.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Total output reads | | Mean read length | | Post trimming % of bases | | Post trimming % of poor quality bases | |
| Q20 | Q30 | Q20 | Q30 | Q20 | Q30 | Q20 | Q30 |
| QTrim | 15829 | 15450 | 448 | 422 | 94.305 | 86.754 | 4.227 | 1.723 |
| Clean\_reads | 15781 | 15267 | 417 | 315 | 87.582 | 64.025 | 2.127 | 0.030 |
| PRINSEQ | 15825 | 15471 | 450 | 426 | 94.613 | 87.744 | 4.562 | 2.129 |
| FASTX | 13176 | 9787 | 466 | 450 | 81.561 | 58.555 | 2.113 | 0.841 |
| Geneious | 15709 | 15113 | 428 | 338 | 89.335 | 68.032 | 2.003 | 0.102 |
| Roche’s Newbler v2.6 | 15788 | NA | 437 | NA | 91.763 | NA | 2.831 | NA |

NA: The data is not available as Roche’s Newbler v.26 is preset to trim at Q20 only. Users do not have option to trim at Q30

Table 2.2: Quality trimming of the poor quality data with QTrim and other tested methods at a mean quality of 20 (Q20) and 30 (Q30) and minimum read length of 50. The table shows the total sequence reads, mean read length, percentage of total bases in output and percentage of poor quality bases in the output file by all methods.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Total output reads | | Mean read length | | Post trimming % of bases | | Post trimming % of poor quality bases | |
| Q20 | Q30 | Q20 | Q30 | Q20 | Q30 | Q20 | Q30 |
| QTrim | 32818 | 23321 | 273 | 162 | 47.788 | 20.118 | 23.445 | 5.849 |
| Clean\_reads | 31379 | 16940 | 157 | 89 | 26.340 | 8.031 | 10.822 | 0.036 |
| PRINSEQ | 32381 | 20717 | 282 | 176 | 48.570 | 19.437 | 24.969 | 7.096 |
| FASTX | 1242 | 279 | 154 | 139 | 1.020 | 0.207 | 5.970 | 1.318 |
| Geneious | 29142 | 13218 | 178 | 90 | 27.592 | 6.343 | 8.417 | 0.017 |
| Roche’s Newbler v2.6 | 32047 | NA | 252 | NA | 42.964 | NA | 21.573 | NA |

NA: The data is not available as Roche’s Newbler v.26 is preset to trim at Q20 only. Users do not have option to trim at Q30