Table S2. One-Second Epoch Size Confusion Matrix Results with SNR

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| --- | --- | --- | --- |
| **Classifier** | **Feature Name** | **Classes Name** | **Predicted Class** |
| SVM | FFT | Actual Class | Sch | 293 | 15540 |
| Healthy | 12737 | 292 |
| ApEn | Actual Class | Sch | 5205 | 10628 |
| Healthy | 10185 | 2844 |
| ApEn+ Band-pass | Actual Class | Sch | 4598 | 11235 |
| Healthy | 9781 | 3248 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 2007 | 13826 |
| Healthy | 12356 | 673 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 22 | 15811 |
| Healthy | 12998 | 31 |
| Kurtosis+ Band-pass | Actual Class | Sch | 4965 | 10868 |
| Healthy | 8546 | 4483 |
| KNN | FFT | Actual Class | Sch | 522 | 15311 |
| Healthy | 12408 | 621 |
| ApEn | Actual Class | Sch | 6052 | 9781 |
| Healthy | 10527 | 2502 |
| ApEn+ Band-pass | Actual Class | Sch | 6198 | 9635 |
| Healthy | 10408 | 2621 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 716 | 15117 |
| Healthy | 12370 | 659 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 48 | 15785 |
| Healthy | 12994 | 35 |
| Kurtosis+ Band-pass | Actual Class | Sch | 4924 | 10909 |
| Healthy | 7099 | 5930 |
| QDA | FFT | Actual Class | Sch | 838 | 14995 |
| Healthy | 12605 | 424 |
| ApEn | Actual Class | Sch | 4617 | 11216 |
| Healthy | 7671 | 5358 |
| ApEn+ Band-pass | Actual Class | Sch | 6785 | 9048 |
| Healthy | 11000 | 2029 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 8607 | 7226 |
| Healthy | 12792 | 237 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 21 | 15812 |
| Healthy | 13010 | 19 |
| Kurtosis+ Band-pass | Actual Class | Sch | 3211 | 12622 |
| Healthy | 4551 | 8478 |
| EC | FFT | Actual Class | Sch | 433 | 15400 |
| Healthy | 12705 | 324 |
| ApEn | Actual Class | Sch | 5484 | 10349 |
| Healthy | 9622 | 3407 |
| ApEn+ Band-pass | Actual Class | Sch | 4582 | 11251 |
| Healthy | 8295 | 4734 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 95 | 15738 |
| Healthy | 12903 | 126 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 57 | 15775 |
| Healthy | 13000 | 30 |
| Kurtosis+ Band-pass | Actual Class | Sch | 7148 | 8685 |
| Healthy | 9758 | 3271 |