Table S7. Two-Second Epoch Size Confusion Matrix Results with SNR

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| --- | --- | --- | --- |
| **Classifier** | **Feature Name** | **Classes Name** | **SVM** |
| **Predicted Class** |
| SVM | FFT | Actual Class | Sch | 282 | 7631 |
| Healthy | 6217 | 293 |
| ApEn | Actual Class | Sch | 1655 | 6255 |
| Healthy | 4520 | 1990 |
| ApEn+Band-pass | Actual Class | Sch | 1761 | 6152 |
| Healthy | 5144 | 1366 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 966 | 6947 |
| Healthy | 6223 | 287 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 9 | 7904 |
| Healthy | 6498 | 12 |
| Kurtosis+ Band-pass | Actual Class | Sch | 2262 | 5651 |
| Healthy | 4306 | 2204 |
| KNN | FFT | Actual Class | Sch | 312 | 7601 |
| Healthy | 6015 | 495 |
| ApEn | Actual Class | Sch | 1770 | 6143 |
| Healthy | 4412 | 2098 |
| ApEn+ Band-pass | Actual Class | Sch | 2710 | 5203 |
| Healthy | 5548 | 962 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 256 | 7657 |
| Healthy | 6261 | 249 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 17 | 7896 |
| Healthy | 6495 | 15 |
| Kurtosis+ Band-pass | Actual Class | Sch | 1521 | 6392 |
| Healthy | 2503 | 4007 |
| QDA | FFT | Actual Class | Sch | 455 | 7458 |
| Healthy | 6187 | 323 |
| ApEn | Actual Class | Sch | 949 | 6964 |
| Healthy | 2318 | 4192 |
| ApEn+ Band-pass | Actual Class | Sch | 3442 | 4471 |
| Healthy | 5680 | 830 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 4020 | 3893 |
| Healthy | 6362 | 148 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 2 | 7911 |
| Healthy | 6502 | 8 |
| Kurtosis+ Band-pass | Actual Class | Sch | 462 | 7451 |
| Healthy | 973 | 5537 |
| EC | FFT | Actual Class | Sch | 258 | 7655 |
| Healthy | 6276 | 234 |
| ApEn | Actual Class | Sch | 1975 | 5938 |
| Healthy | 4475 | 2035 |
| ApEn+ Band-pass | Actual Class | Sch | 2474 | 5407 |
| Healthy | 5454 | 1056 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 50 | 7863 |
| Healthy | 6459 | 51 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 9 | 7904 |
| Healthy | 6493 | 17 |
| Kurtosis+ Band-pass | Actual Class | Sch | 3023 | 4890 |
| Healthy | 4713 | 1797 |