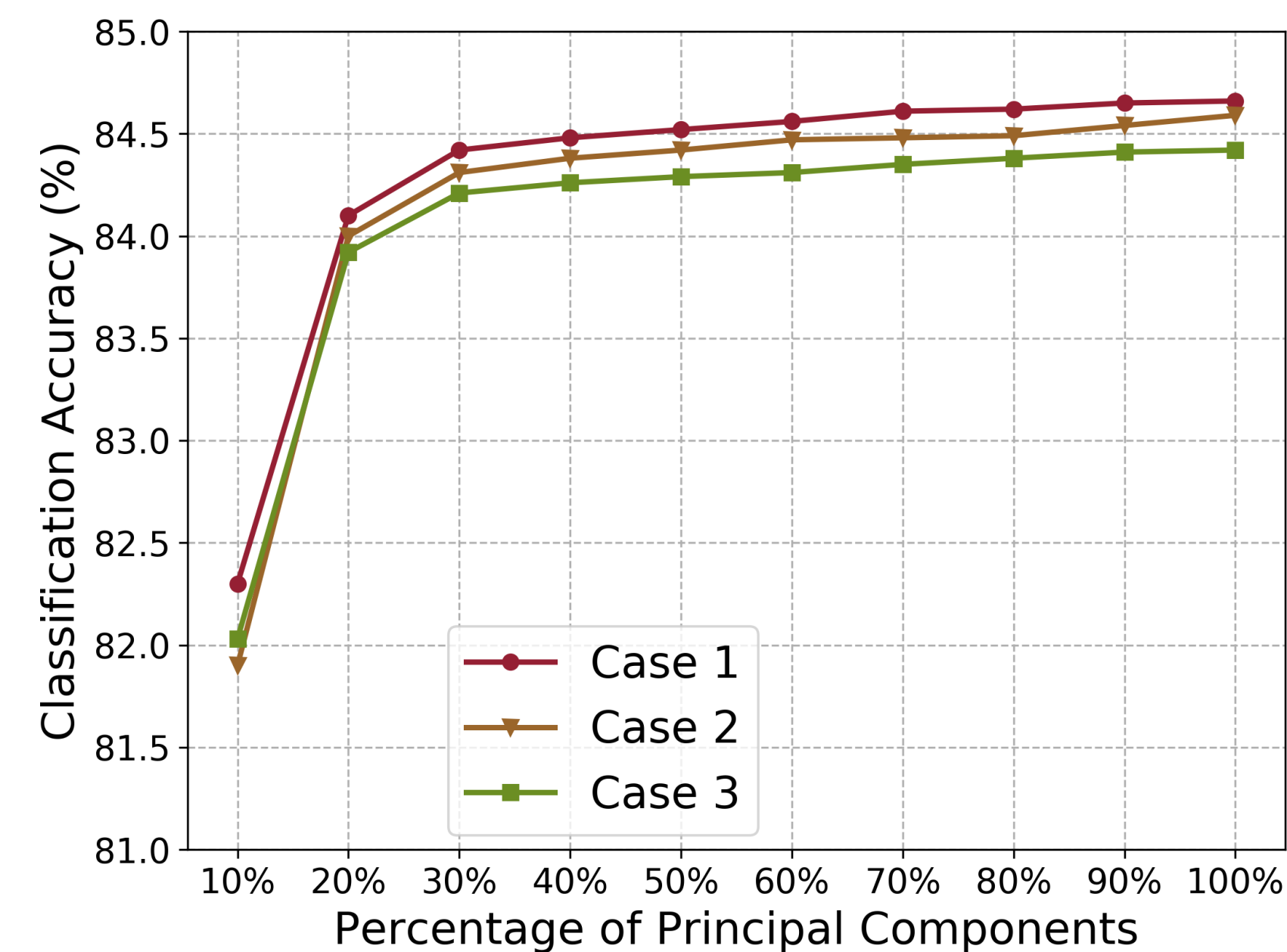
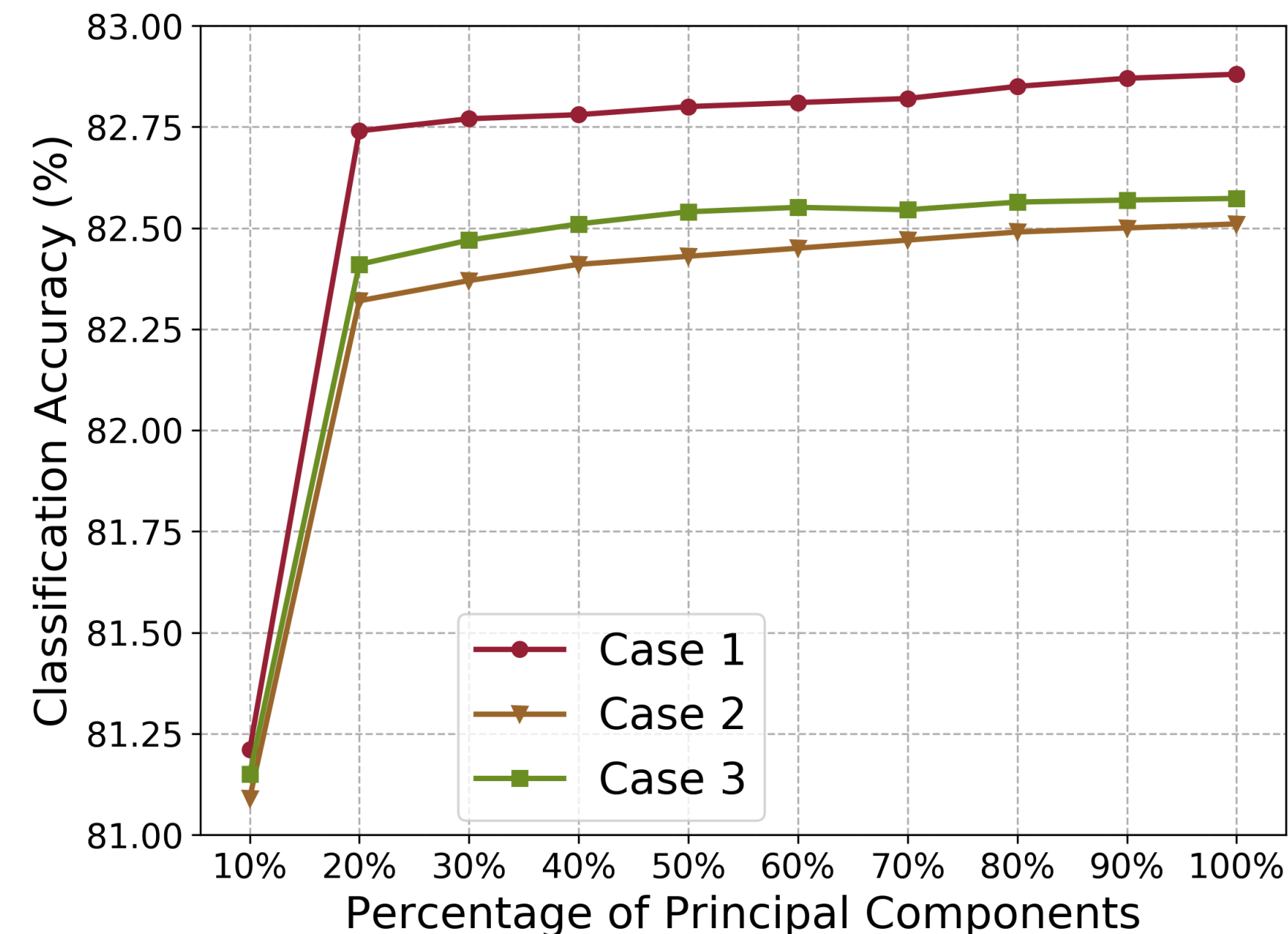


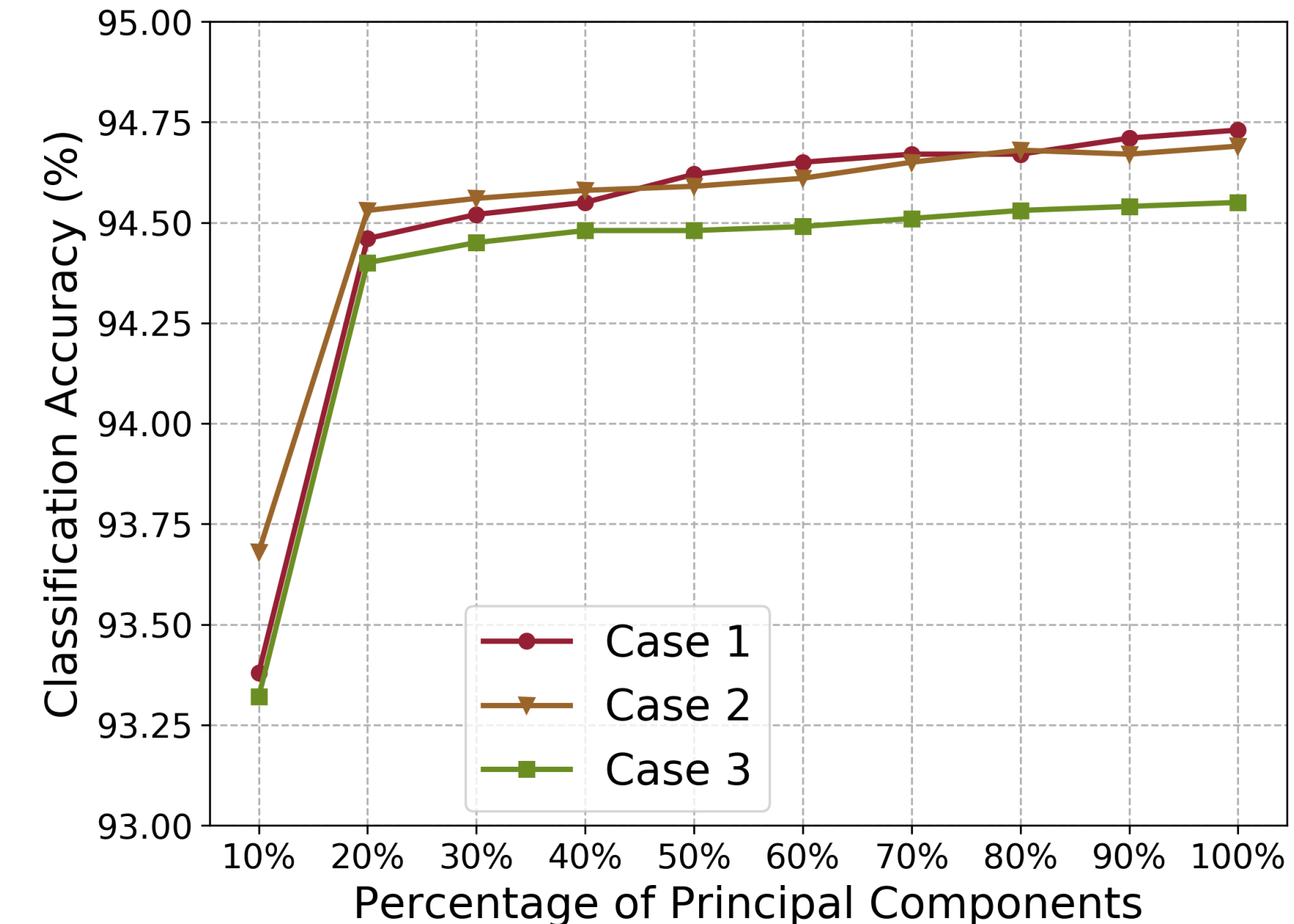
For a representation matrix \mathbf{H} from a well-trained SSL model, we utilize PCA to reduce the dimensionality of the representation matrix \mathbf{H} and investigate the impact of different principal components on classification performance. The 100% on the horizontal axis indicates the utilization of the original representation matrix \mathbf{H} . For each dataset, we investigate three representation matrices, each corresponding to a curve.



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It can be observe that

- As the content of principal components increases, the performance gradually improves.
- The components at the tail end of each curve do not degrade performance, indicating that the components corresponding to small eigenvalues do not manifest as harmful noise.