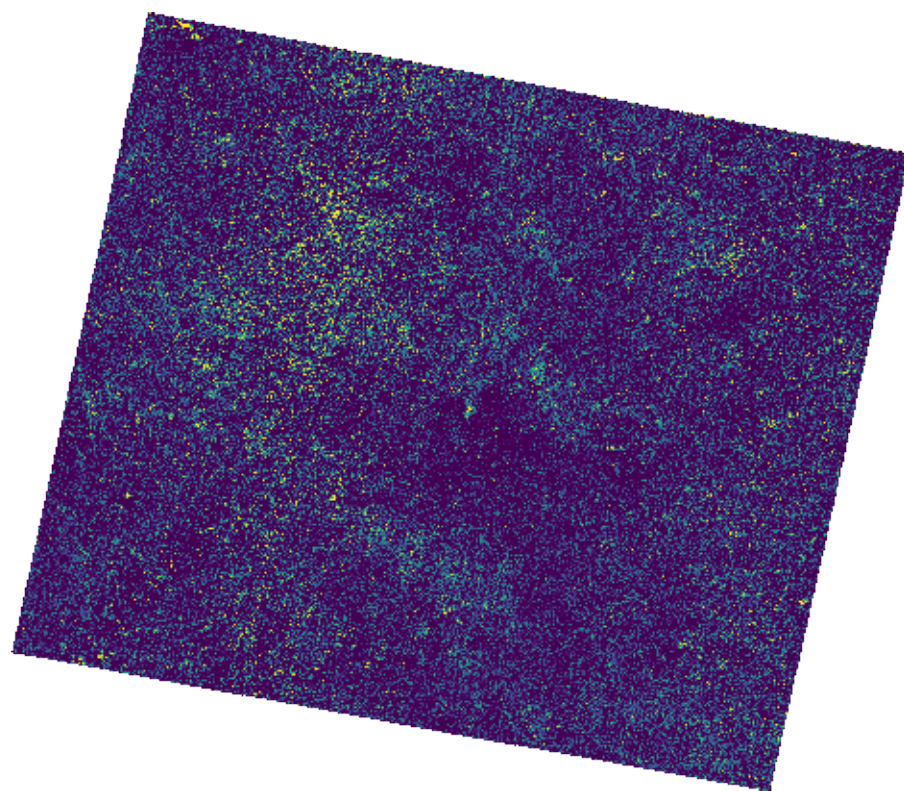
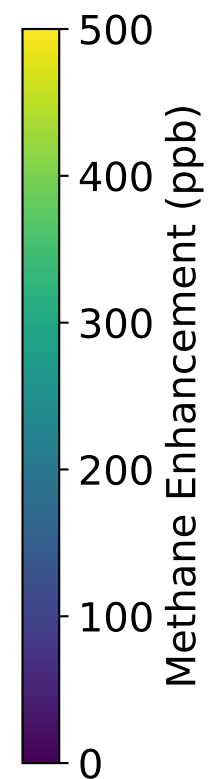
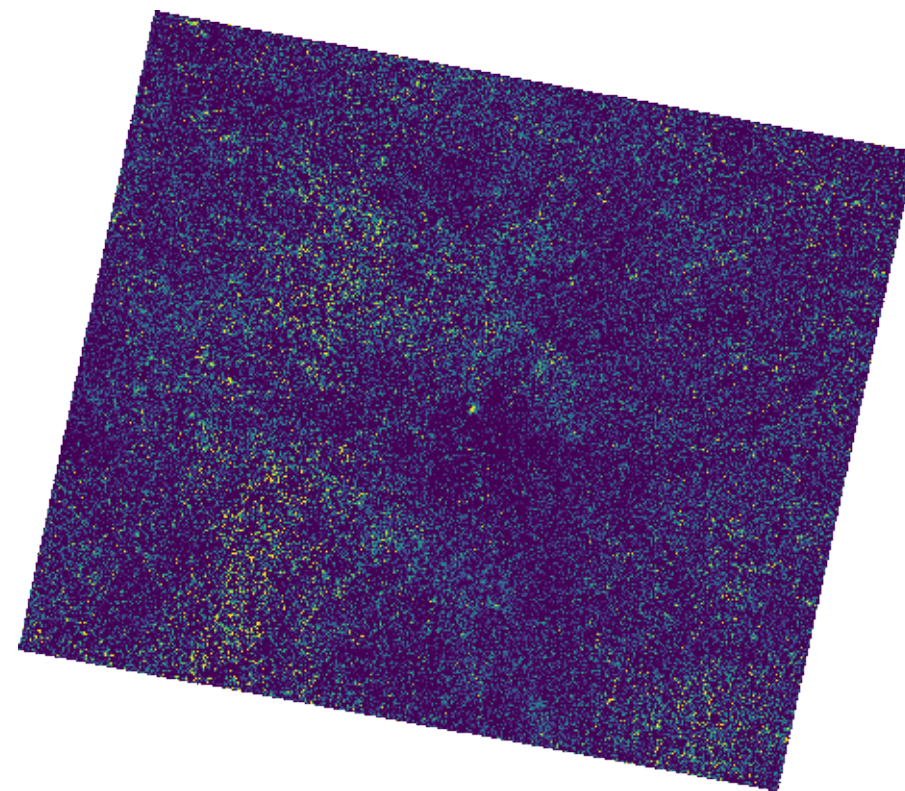


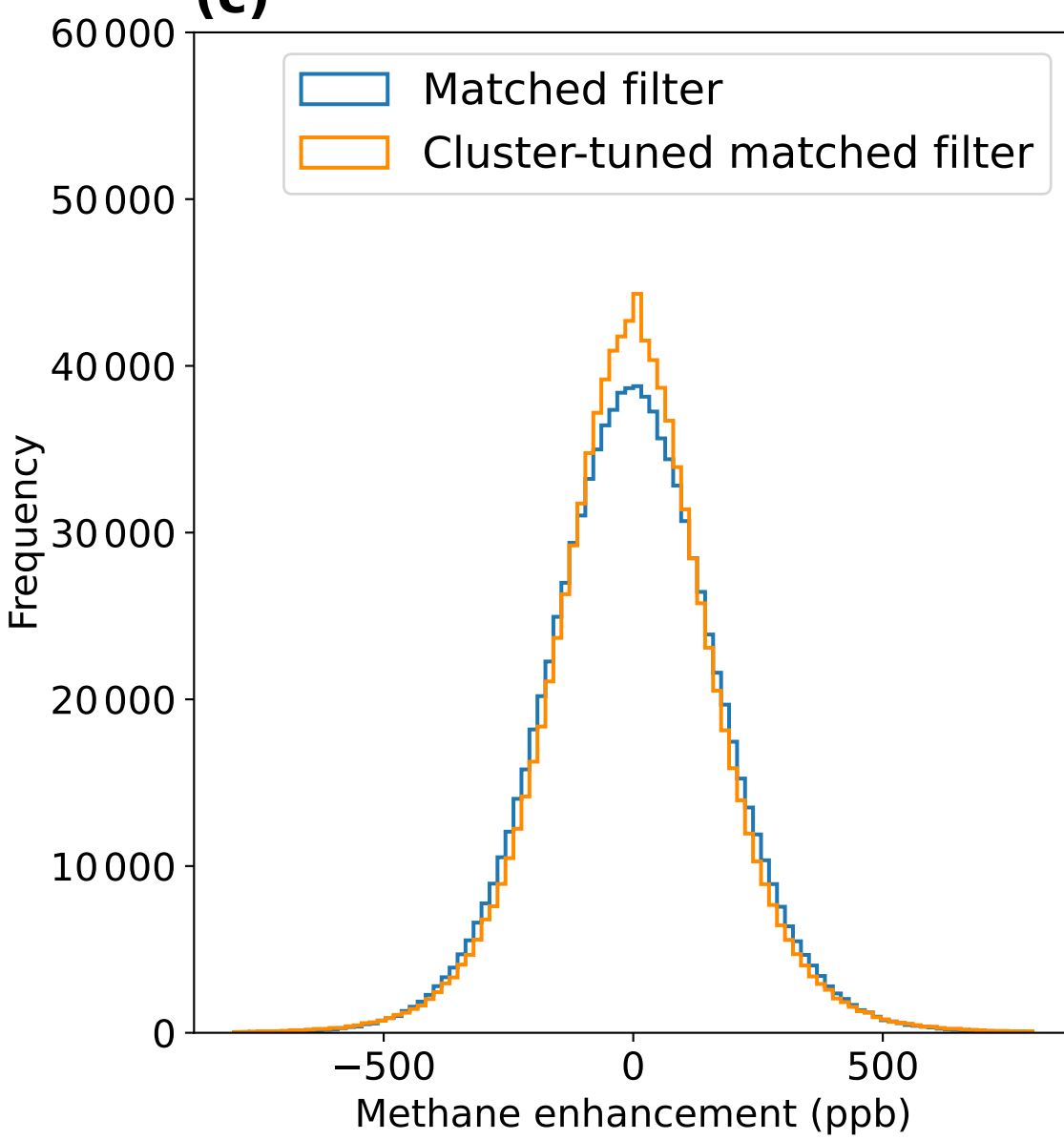
(a) Matched filter



(b) Cluster-tuned matched filter



(c)



(d) K-means clusters

