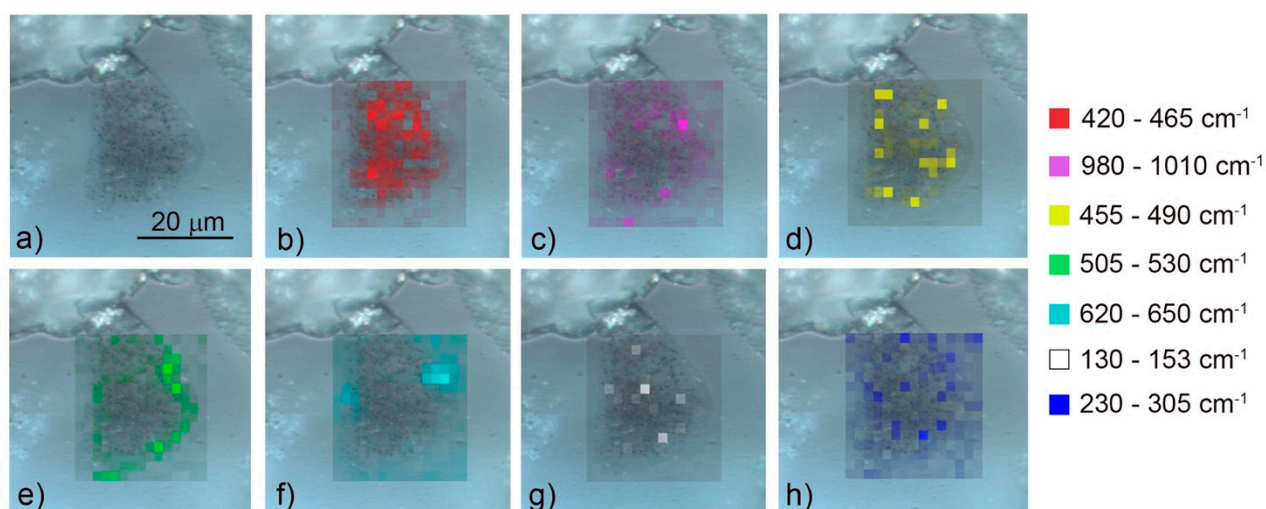


**Figure S1:** Optical image of hauyne 3 (a) and results of the respective Raman mapping according to 420-465  $\text{cm}^{-1}$  (b), 980-1010  $\text{cm}^{-1}$  (c), 455-490  $\text{cm}^{-1}$  (d), 505-530  $\text{cm}^{-1}$  (e) and 620-650  $\text{cm}^{-1}$  (f) spectral regions.



**Figure S2:** Optical image of hauyne 5 (a) and results of the respective Raman mapping according to 420-465  $\text{cm}^{-1}$  (b), 980-1010  $\text{cm}^{-1}$  (c), 455-490  $\text{cm}^{-1}$  (d), 505-530  $\text{cm}^{-1}$  (e), 620-650  $\text{cm}^{-1}$  (f), 130-153  $\text{cm}^{-1}$  (g) and 230-305  $\text{cm}^{-1}$  (h) spectral regions.