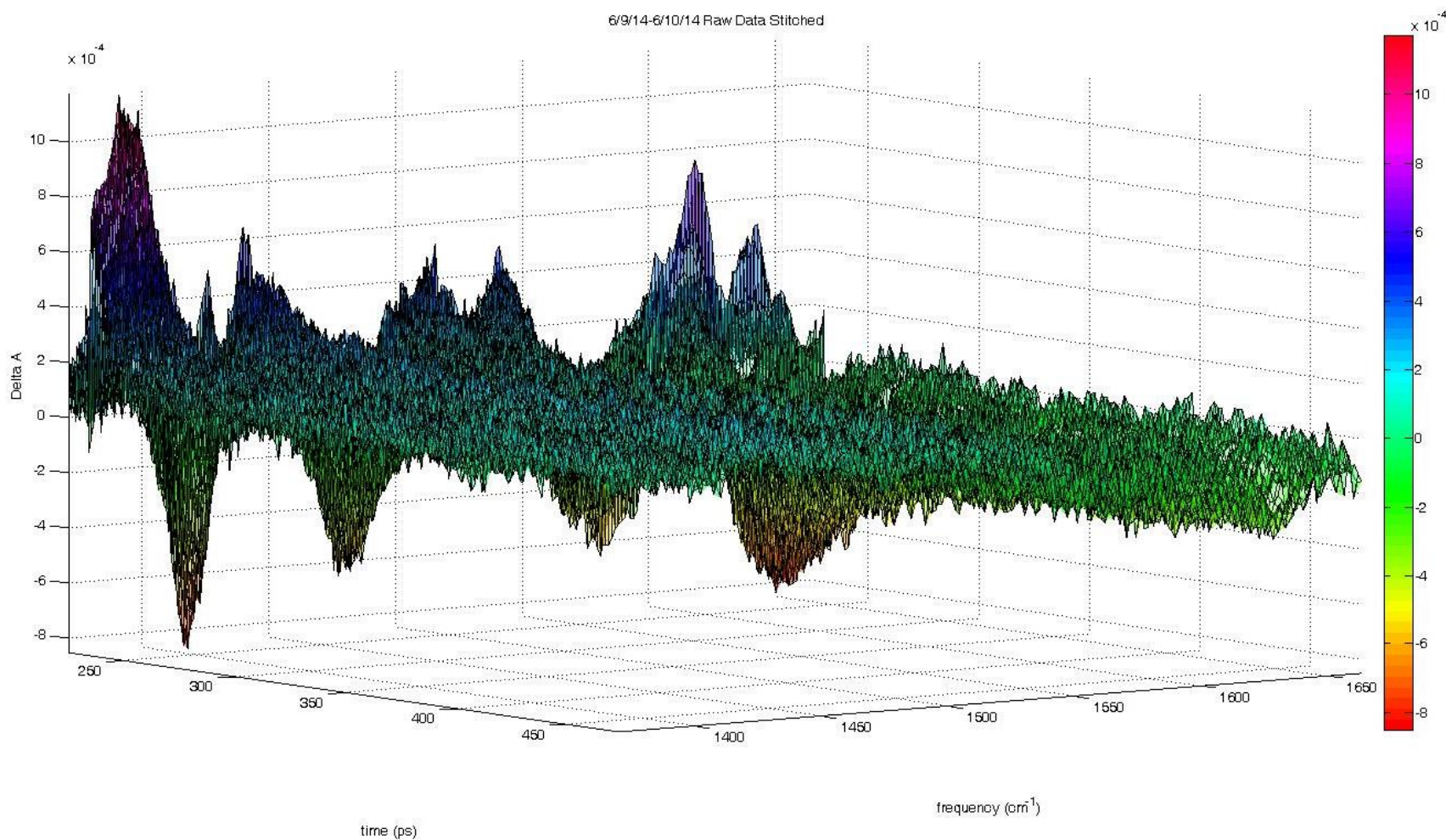
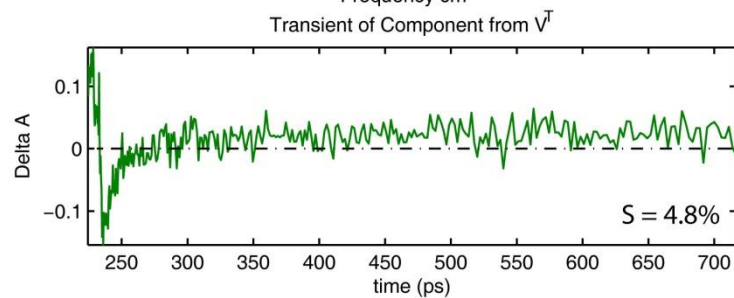
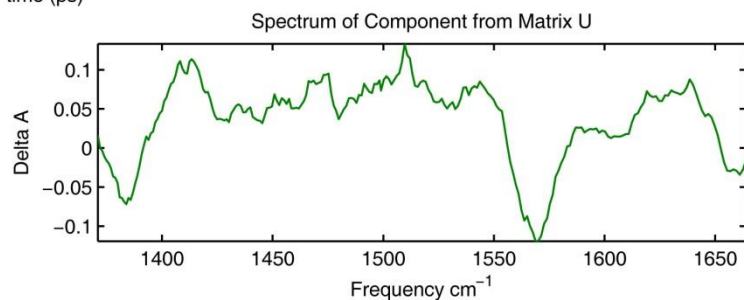
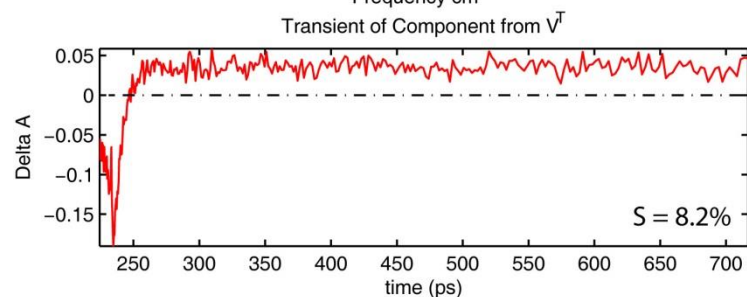
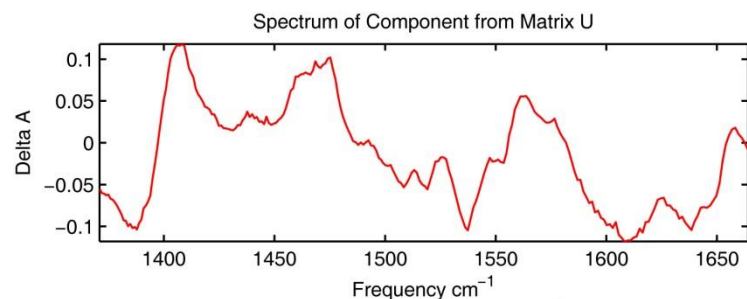
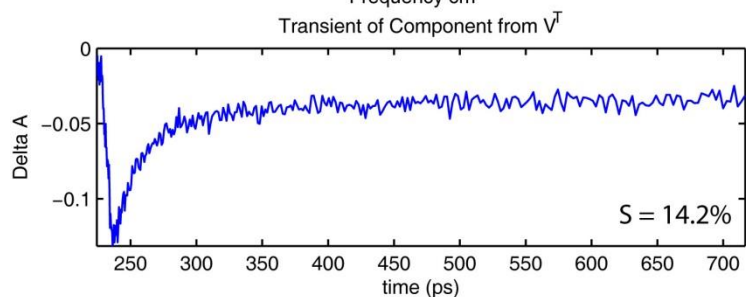
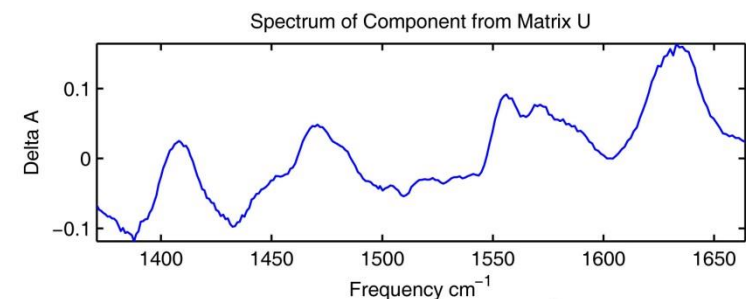


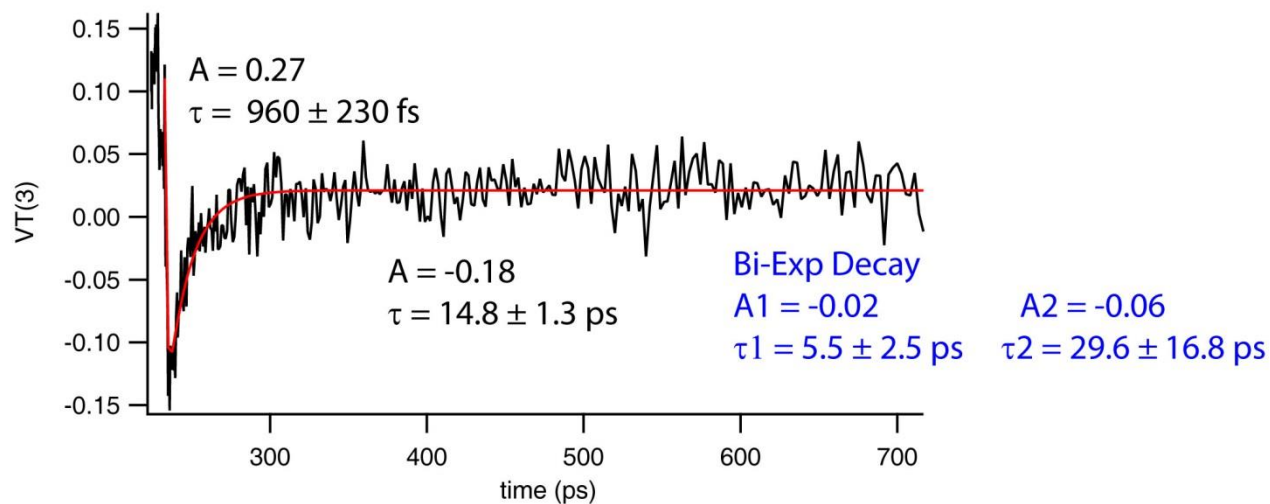
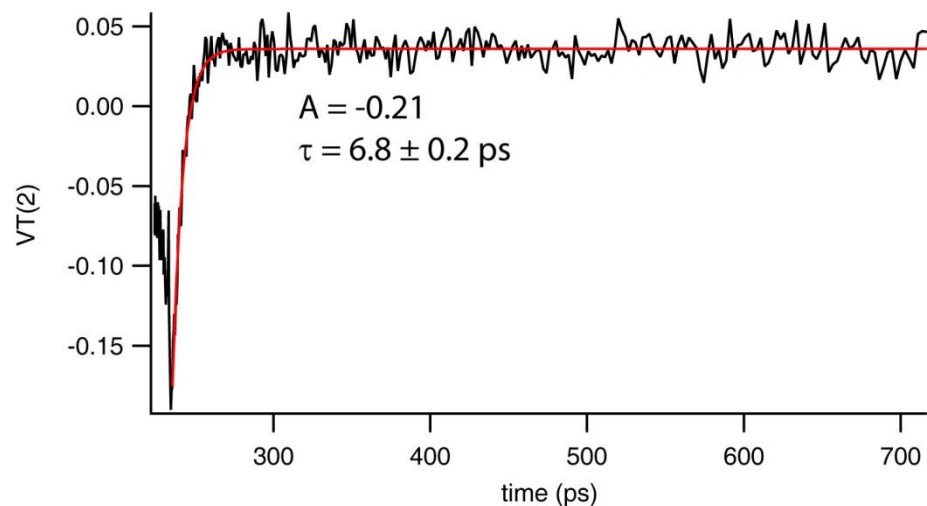
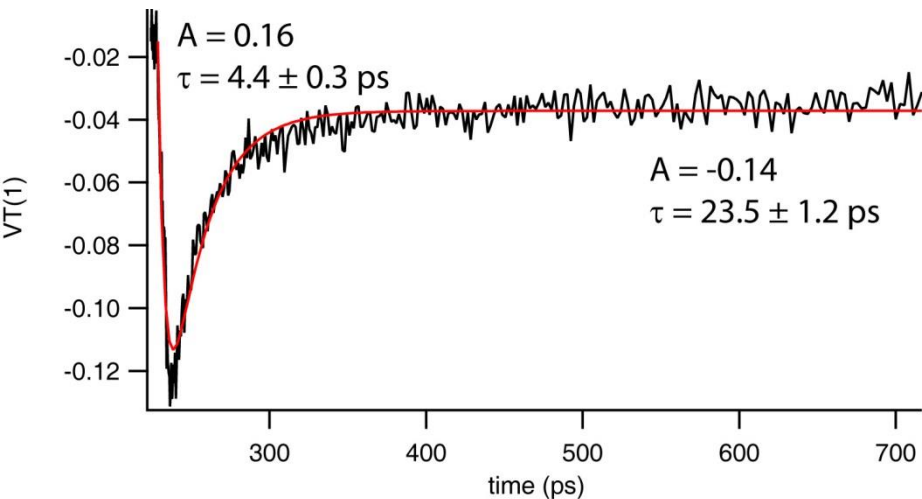
Stitched MetHb Data



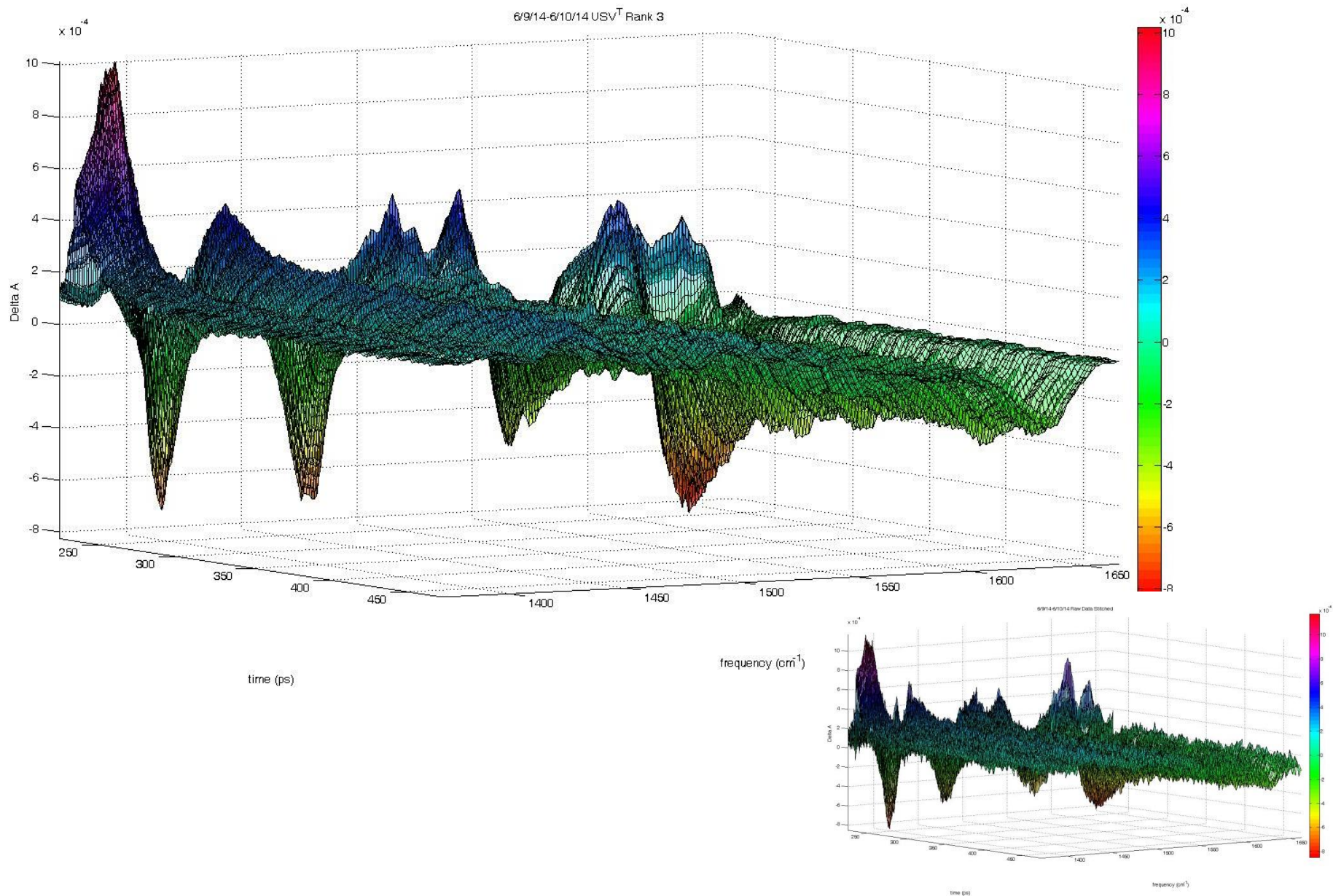
U and V^T Components



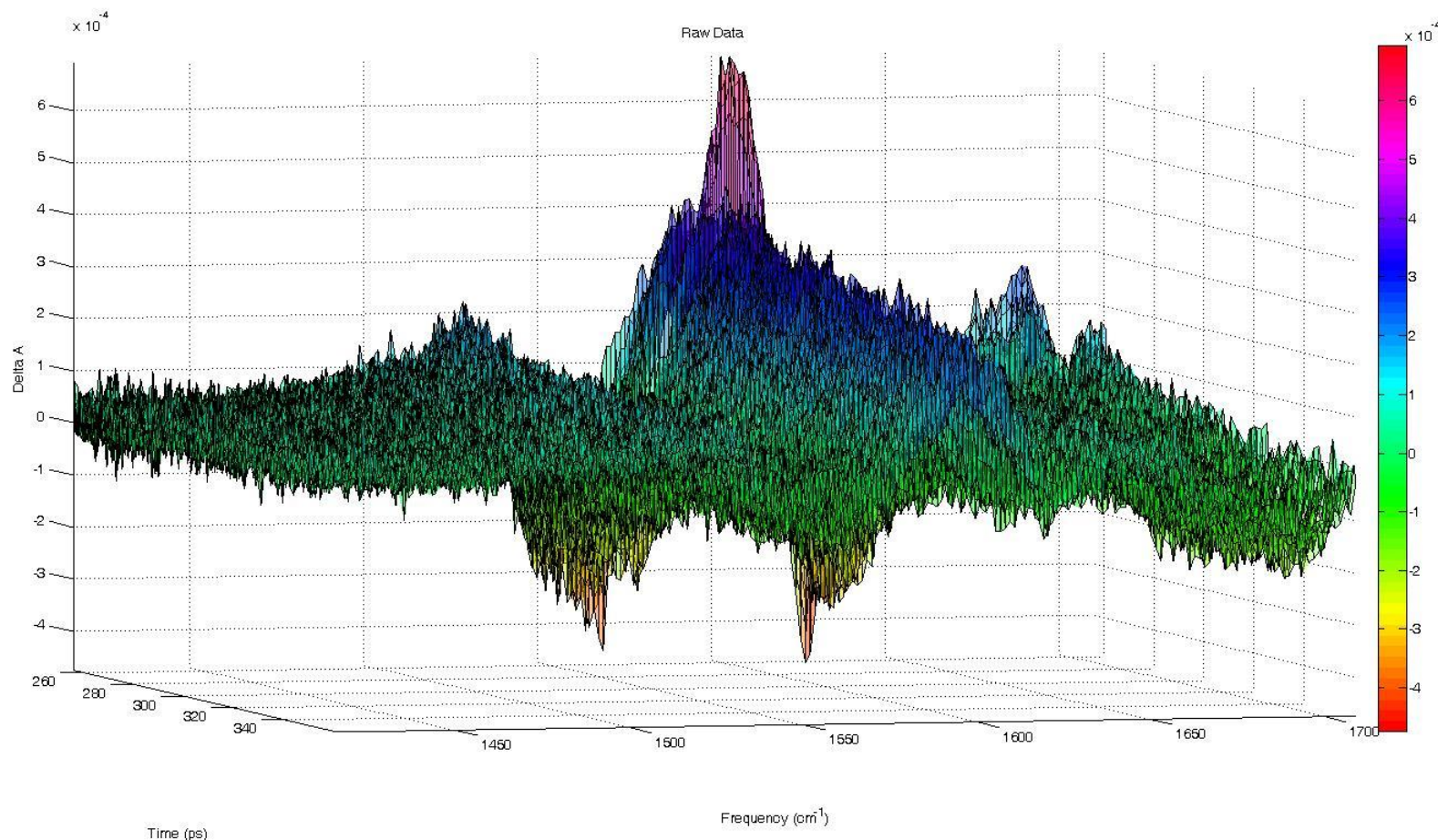
MetHb in D₂O - VT Fitting



$U \cdot S \cdot V^T$ to Rank 3



MetHb EG/D₂O Stitched Raw Data

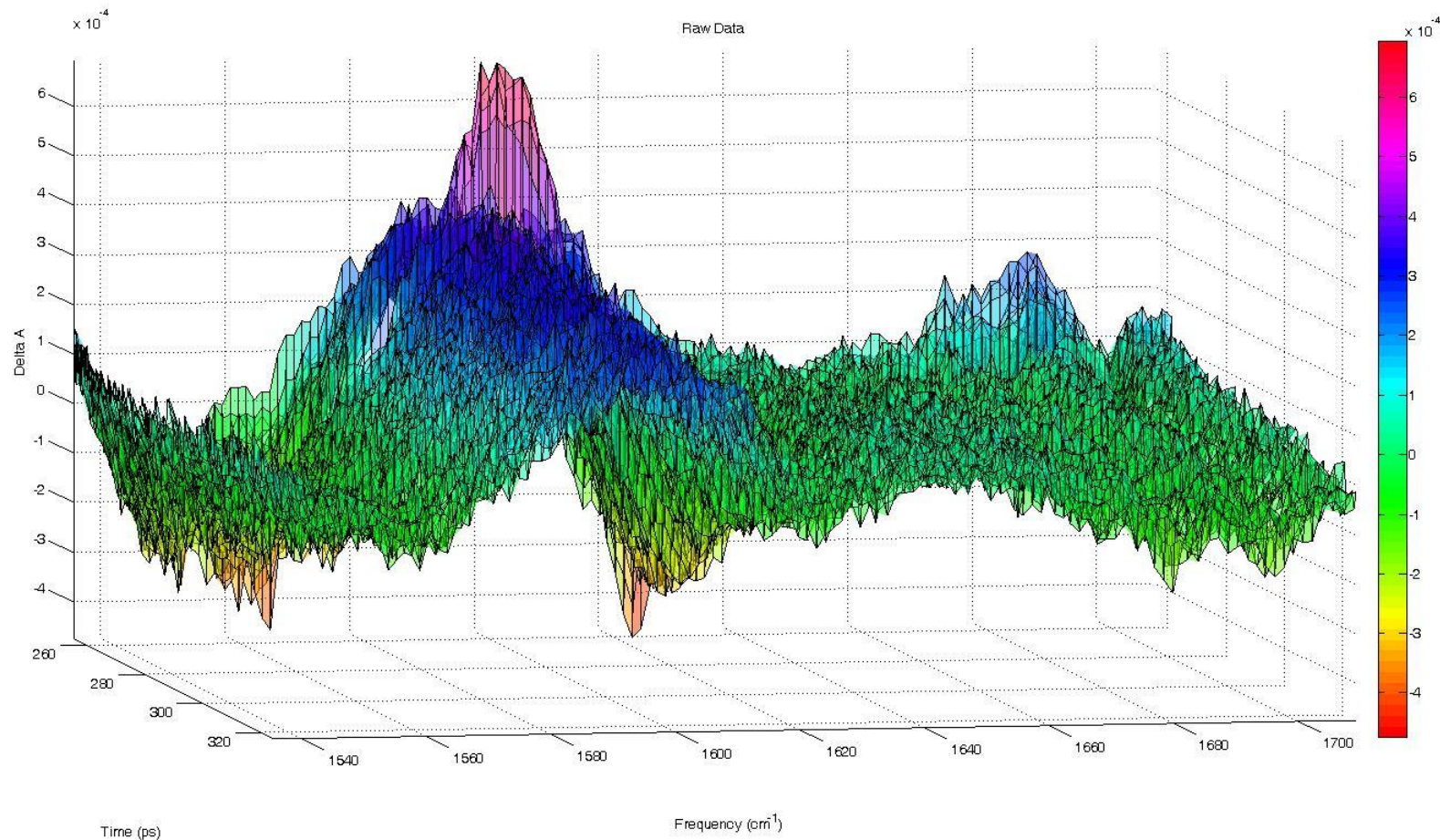


Incomplete Low Frequency Data, only down to ~ 1420 cm⁻¹

Missing principal heme mode at 1407 cm⁻¹

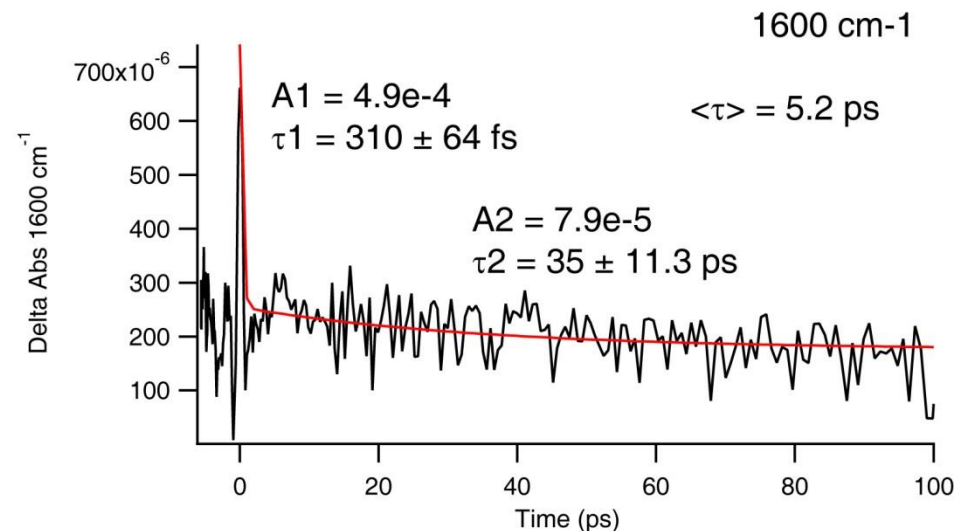
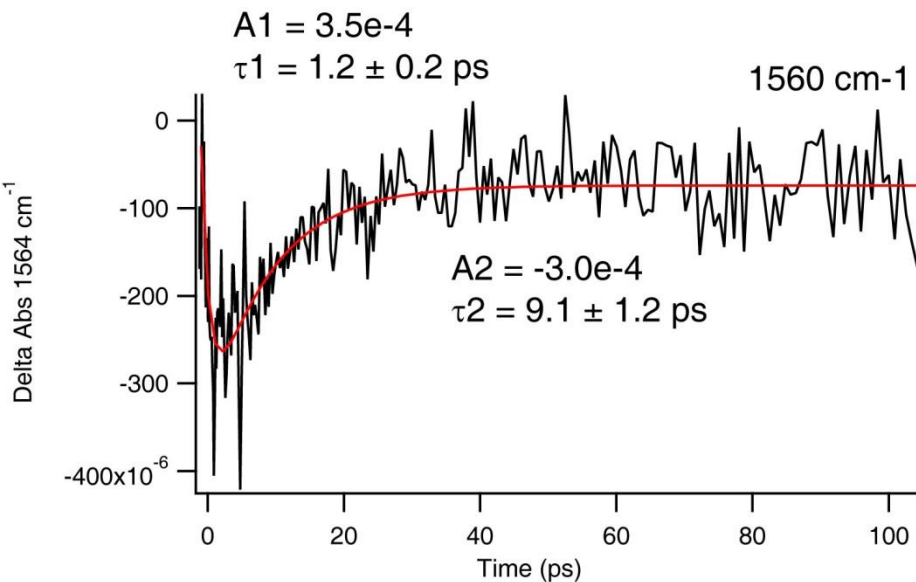
SVD of whole data doesn't add anything compared to high frequency half

***Raw Data: MetHb EG/D₂O 1530-1710
cm⁻¹***



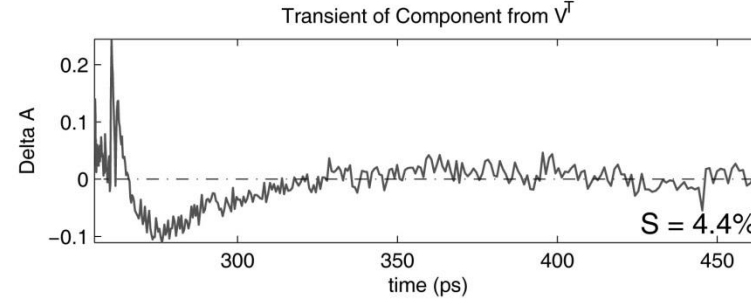
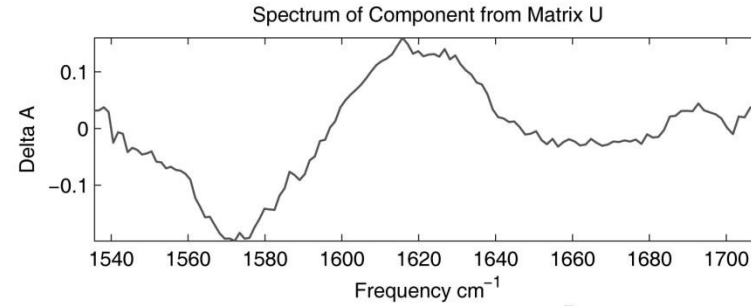
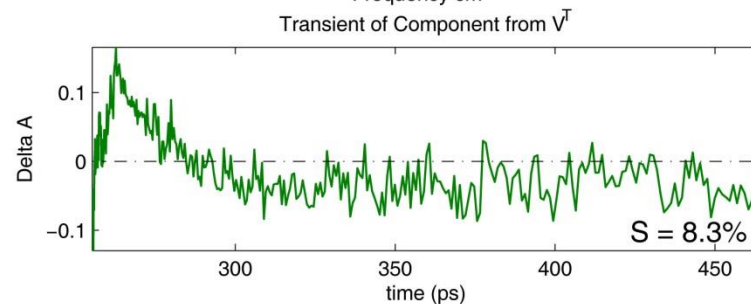
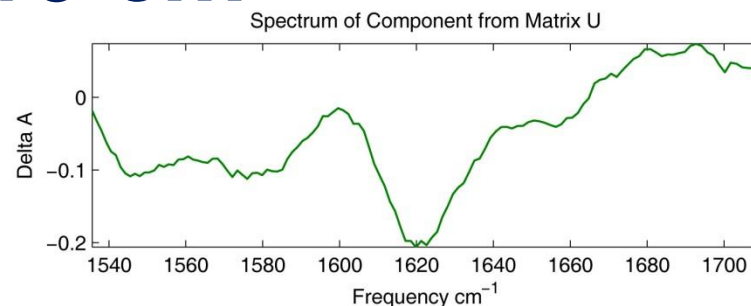
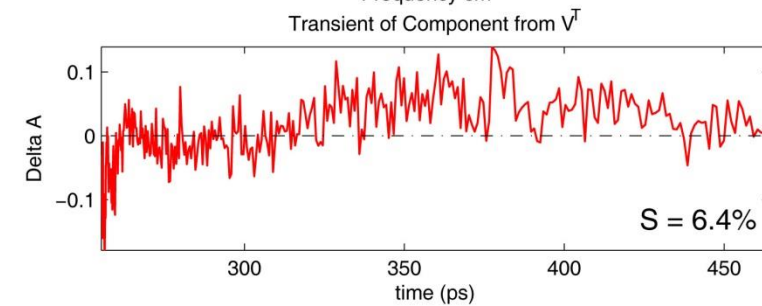
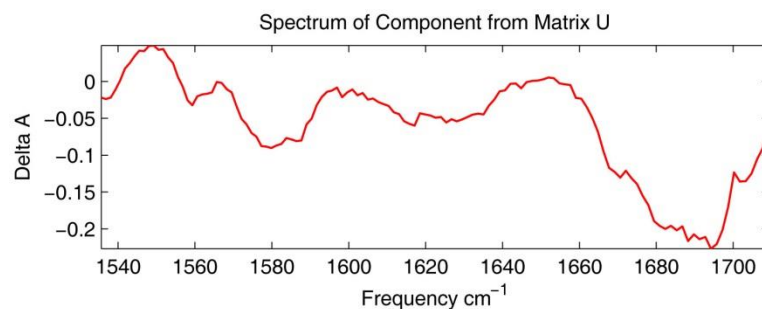
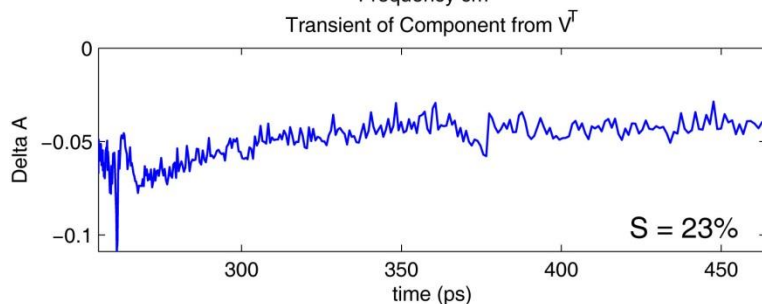
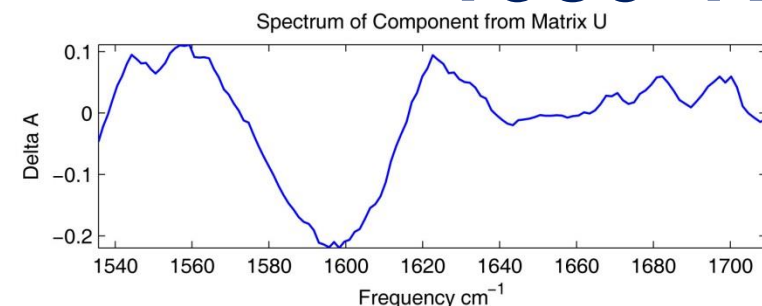
MetHb in EG/D₂O Raw Transient Fits

- Transients are noisy, so fits have larger std. dev.
- MetHb in D₂O @ 1560 cm⁻¹
 - same bleach time
 - faster decay time (~2 ps) but noisier data



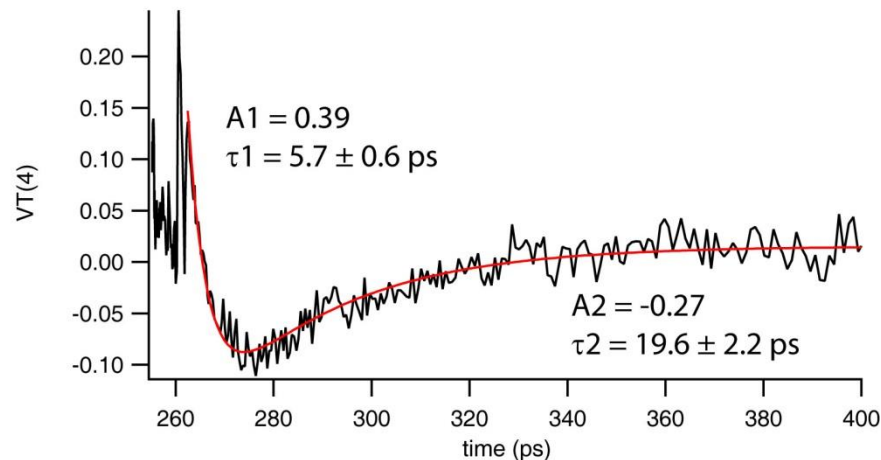
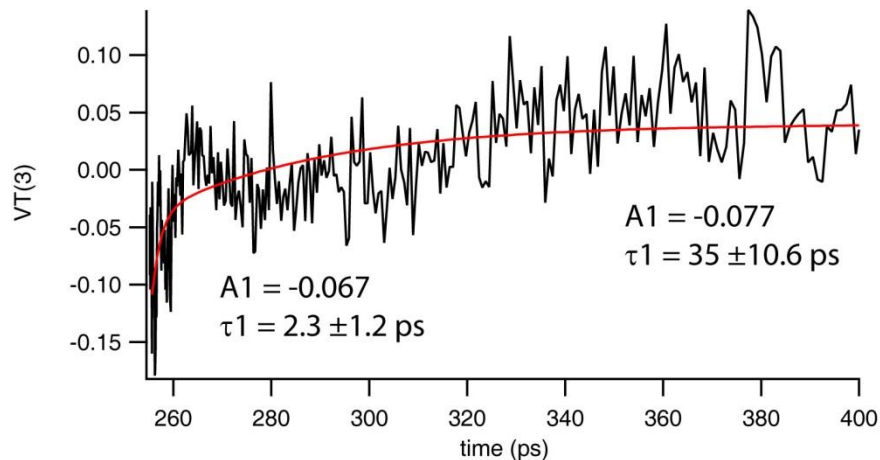
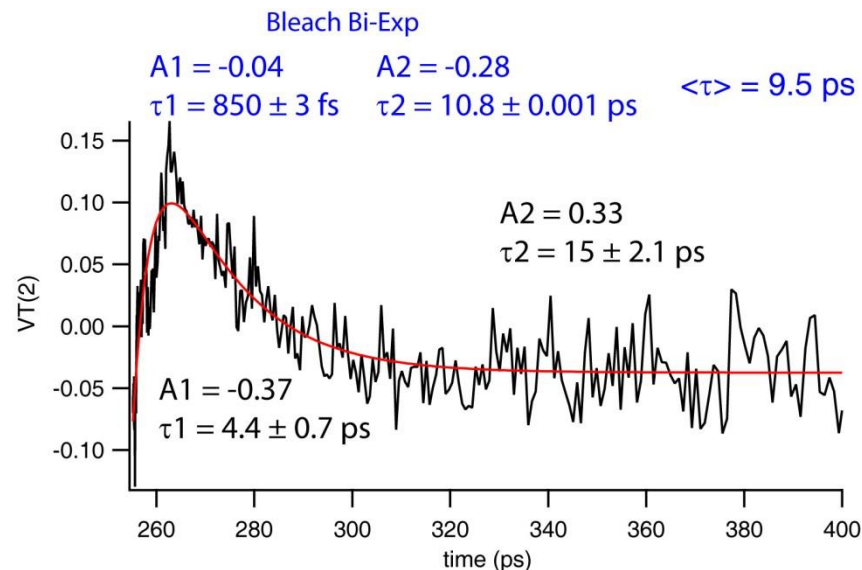
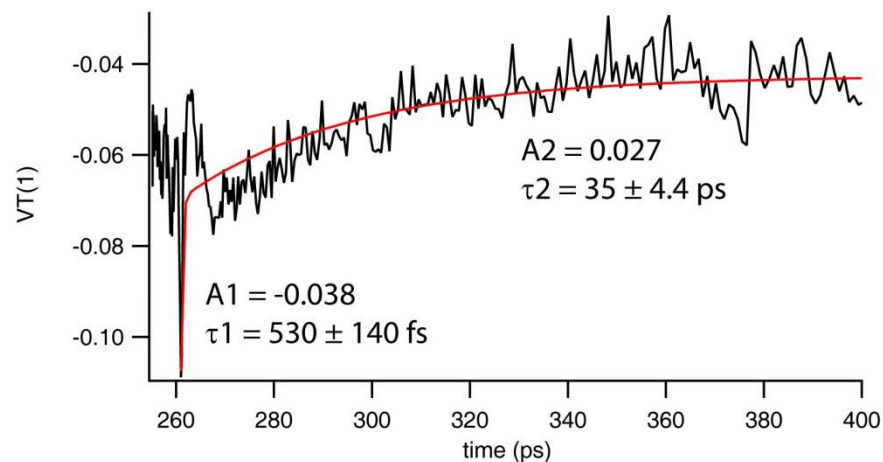
U and V^T to Rank 2: MetHb EG/D₂O

1530-1710 cm⁻¹

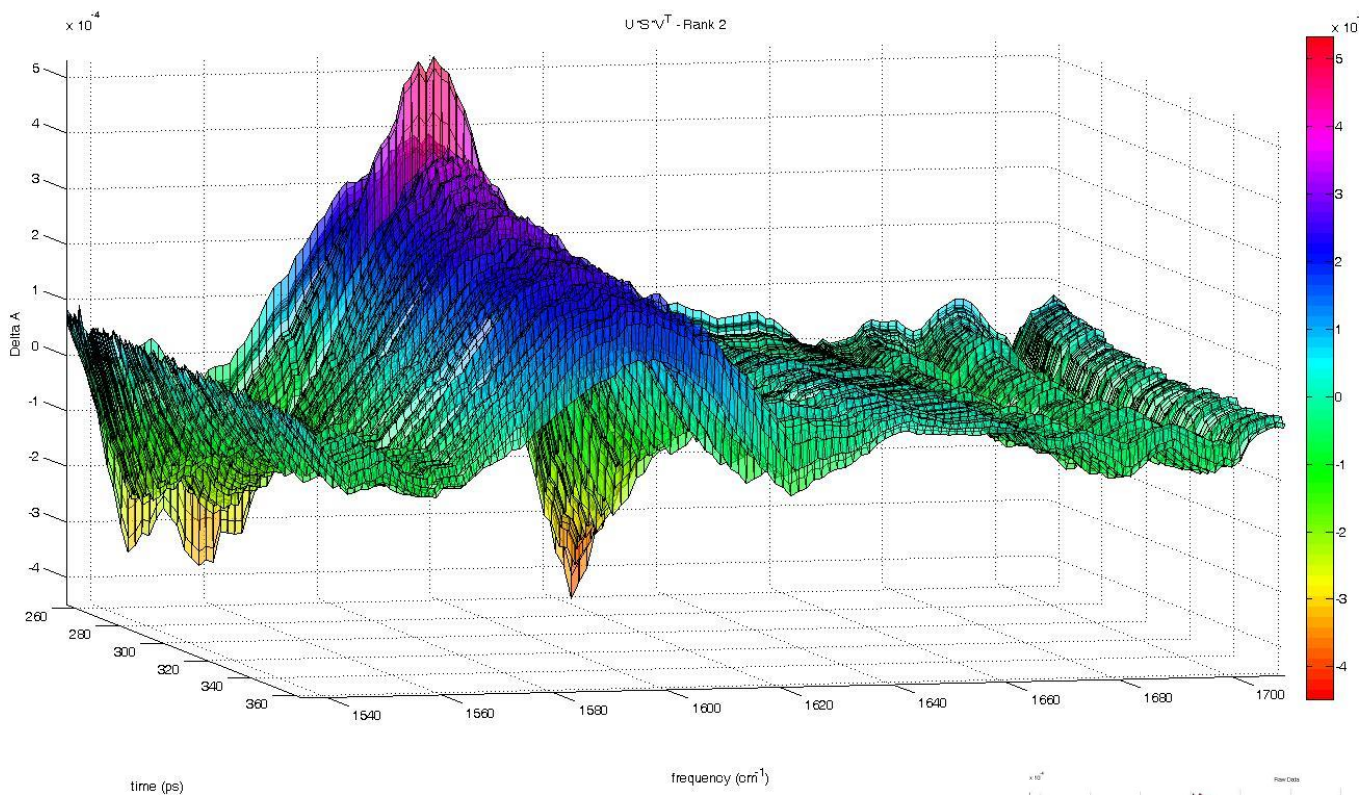


V^T Fitting to Rank 2: MetHb EG/D₂O

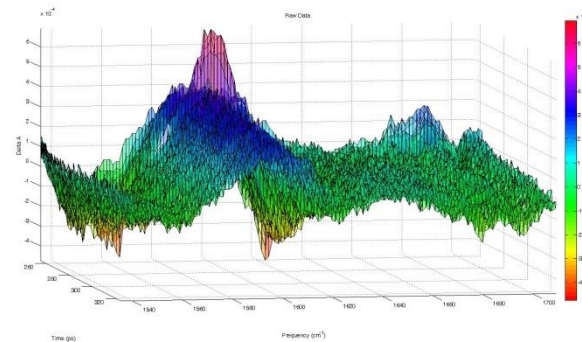
1530-1710 cm⁻¹



$U \cdot S \cdot V^T$: MetHb in EG/D₂O 1530-1710 cm^{-1} Rank 2



Comparison to Raw Data



$U^*S^*V^T$: MetHb in EG/D₂O 1530-1710 cm^{-1} Rank 4

