

**Infra-Red (IR)**  
**&**  
**Fourier Transform Infra-Red (FT-IR)**  
**Spectroscopy**  
**Session 4-2**

# IR Spectrums for Some of APIs (Active Pharmaceutical Ingredients)

# IR Spectrum for Aspirin

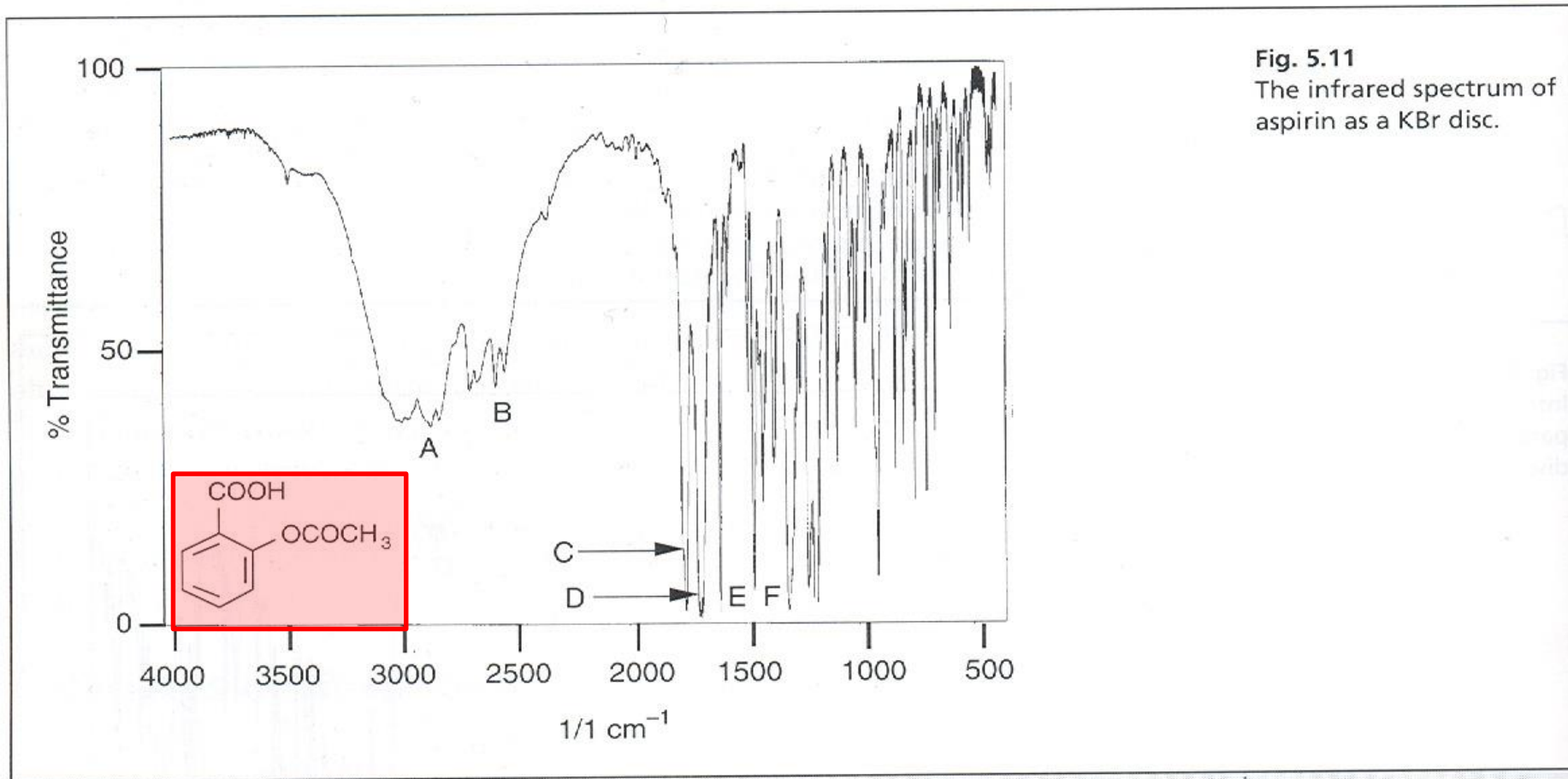
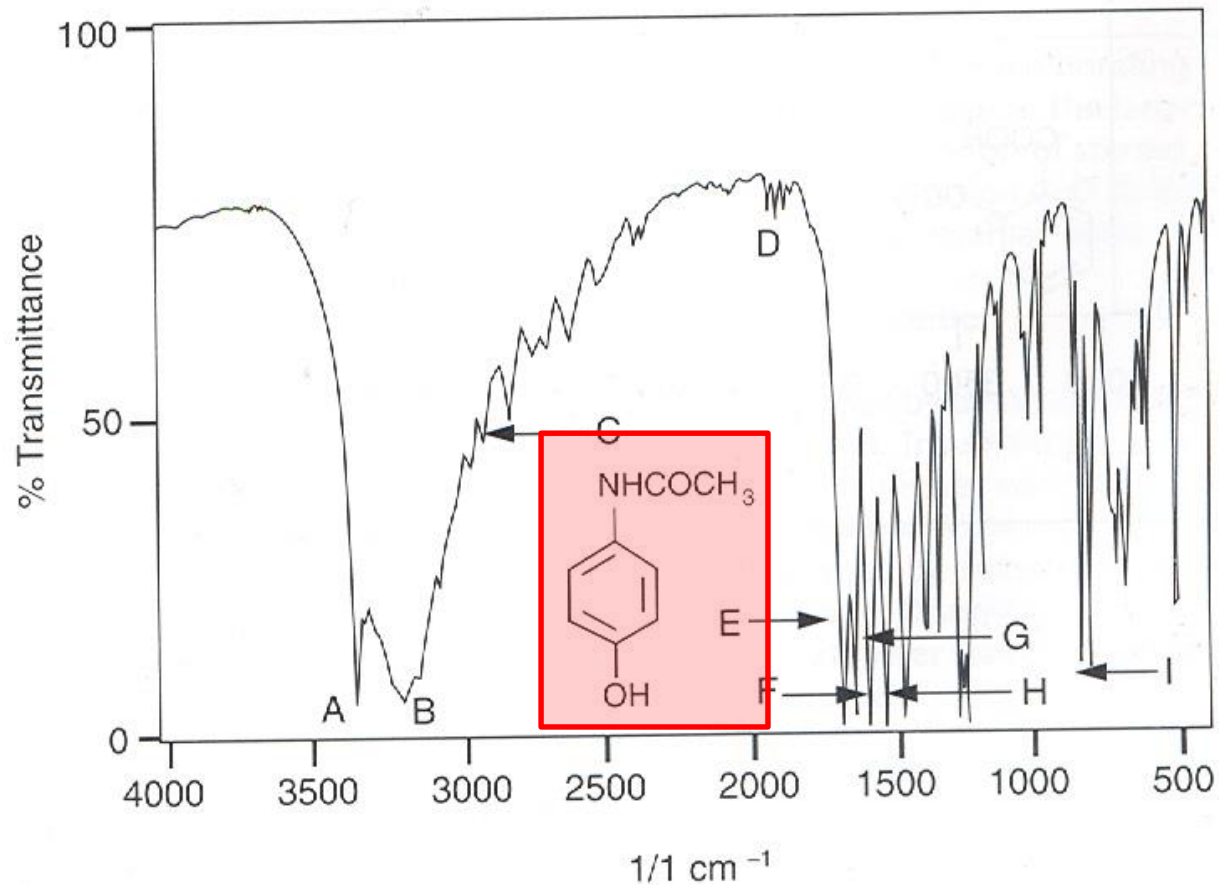


Fig. 5.11  
The infrared spectrum of aspirin as a KBr disc.

# IR Spectrum for Paracetamol

Fig. 5.10  
Infrared spectrum of  
paracetamol as a KBr  
disc.

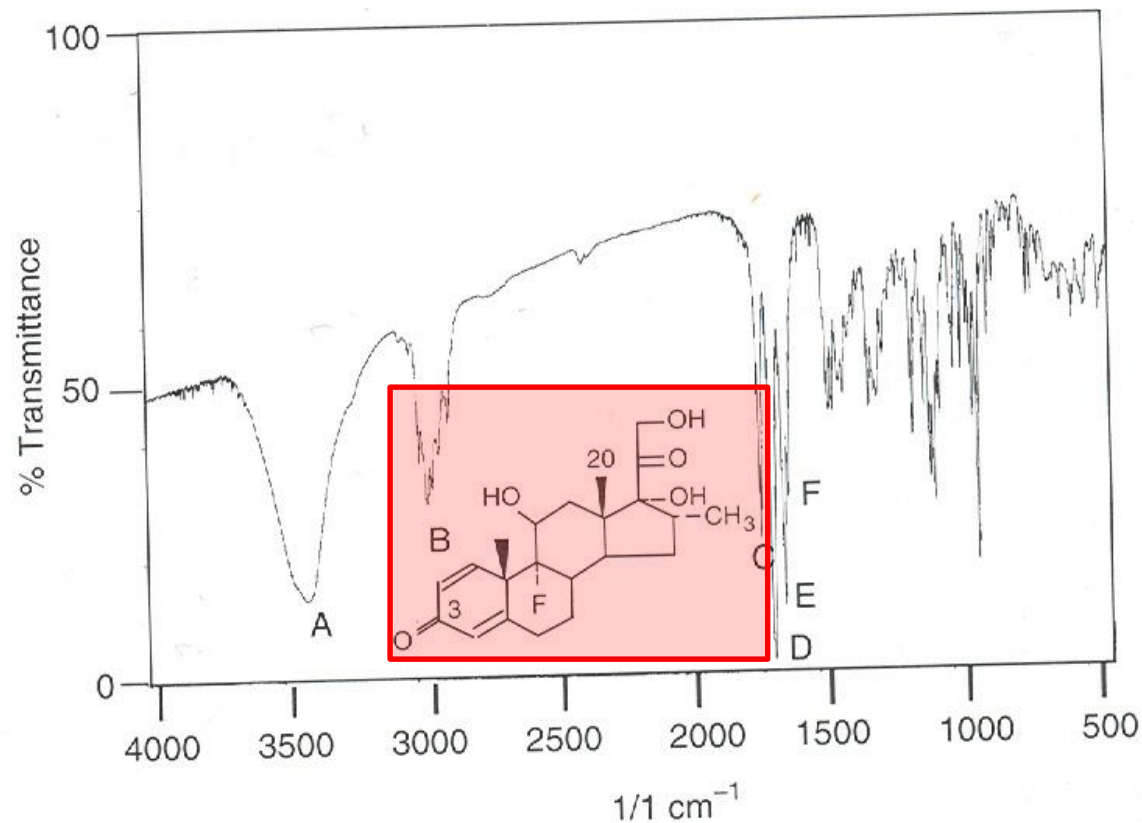


# IR Spectrum for Dexamethasone

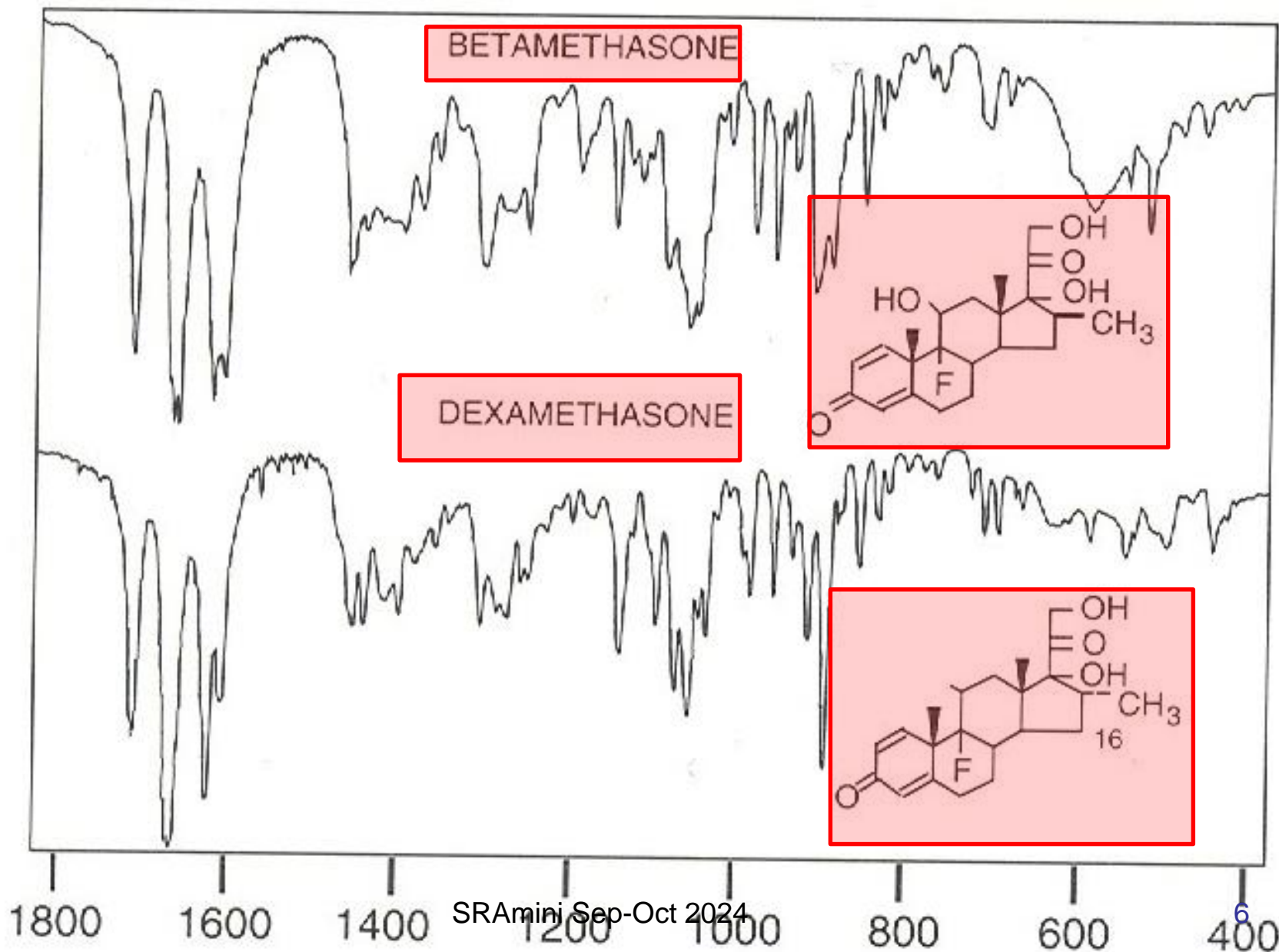
Fig. 5.12

The infrared spectrum of dexamethasone obtained as a KBr disc.

Corticosteroids provide some of the best examples for the assignment of IR bands because of the prominence of the bands in their spectra above  $1500\text{ cm}^{-1}$ .



Transmittance



# IR Spectrum for ATP

