

Studies of key organometallic and reactive intermediates

Scott Reid, Marquette University

- Pulsed discharge source of Ni containing intermediates has been developed and used to study the Nickel monohalides, which are model systems for understanding the important role of d -electrons in chemical bonding
- Matrix isolation methods incorporating pulsed discharge sampling have been used to characterize pre-reactive complexes involving halogen atoms
- Isopolyhalomethanes, important reactive intermediates in the halon family have been characterized using matrix isolation methods

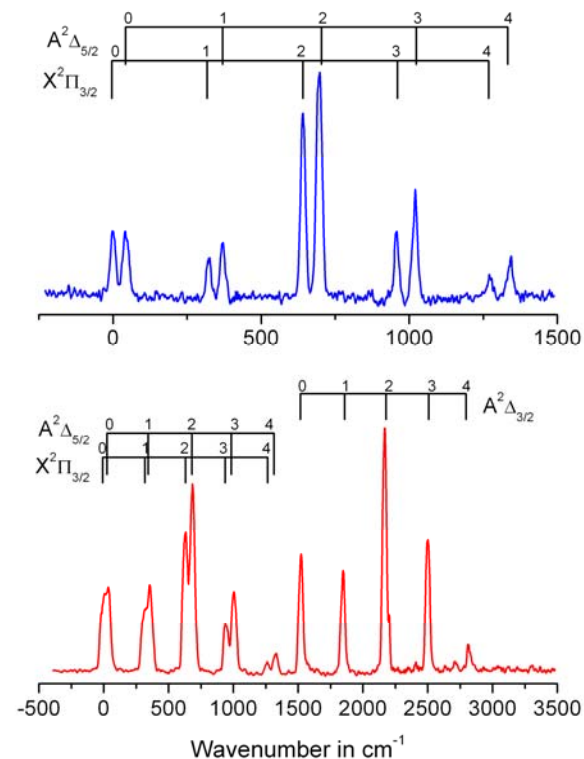


Figure 1. SVL spectrum of NiBr recorded via the $[21.8]^2\Delta_{5/2} v = 1$ level using a 600 l/mm grating (lower trace) and an 1800 l/mm grating (upper trace).