Mag Chem Molecular Models Lab Pt 2 Additional Questions:

1. Which (if any) of the above molecules display(s) resonance? Draw all resonant structures below. If using arrows to show e- ‘pushing’, indicate the total # of resonant structures/molecule.
2. Explain why BF3 and NH3 do not have the same molecular geometry.
3. What is a coordinate covalent bond? Does this apply to any of the above structures done in this lab? Explain.

Part 2: Bonus. For each structure you get correct (**I must initial**), +1 on lab! ☺ You must also answer the questions (at the end) to receive the EC

1. CH3CHO

Geometry\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Initials\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Bond angle(s)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Polarity?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Draw below and show dipole(s), if applicable

1. Chlorite ion (\*follow the above criteria)

Geometry\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Initials\_\_\_\_\_\_

Bond angle\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Polarity?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Draw below and show dipole(s), if applicable