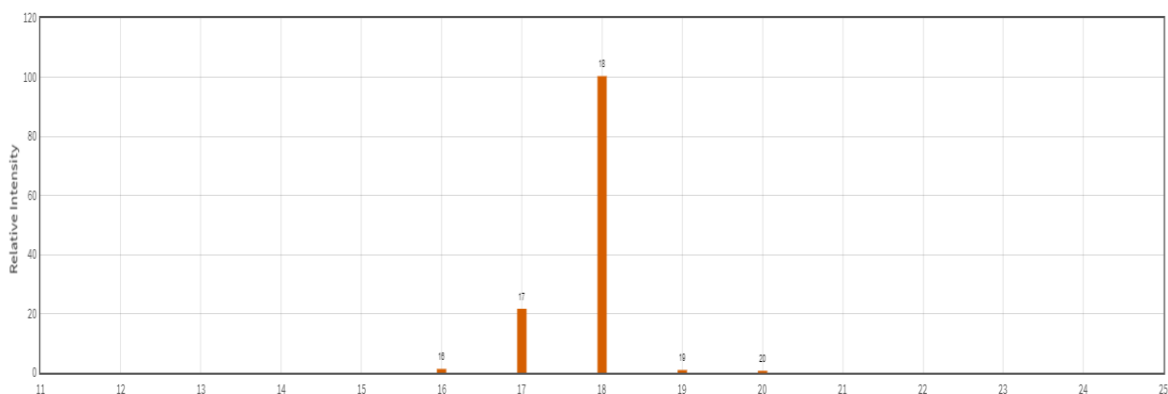


1. How many formula units of NaCl are in 15.3g of NaCl? (Hint use Avogadro number to find formula units)

2. Find the percent hydrogen within Methane (CH<sub>4</sub>)

3. Annotate the peak (H<sub>2</sub>O, 16, 17,18, 19 and 20)



**Challenge:** A Compound contains only C and O. Combustion of 10.68g of compound yields 16.01 g CO<sub>2</sub> and 4.37 g H<sub>2</sub>O. The molar mass of the compound is 176.1 g/mol What are the empirical and molecular formulas? (SAT)

**Clue:** C<sub>x</sub>H<sub>y</sub>O<sub>z</sub> + O<sub>2</sub> -----CO<sub>2</sub> + H<sub>2</sub>O