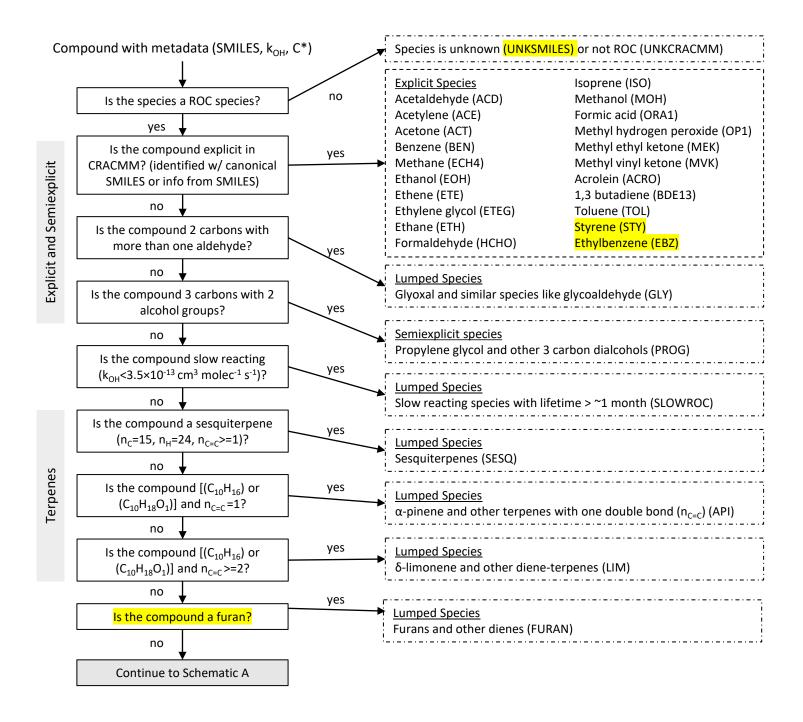
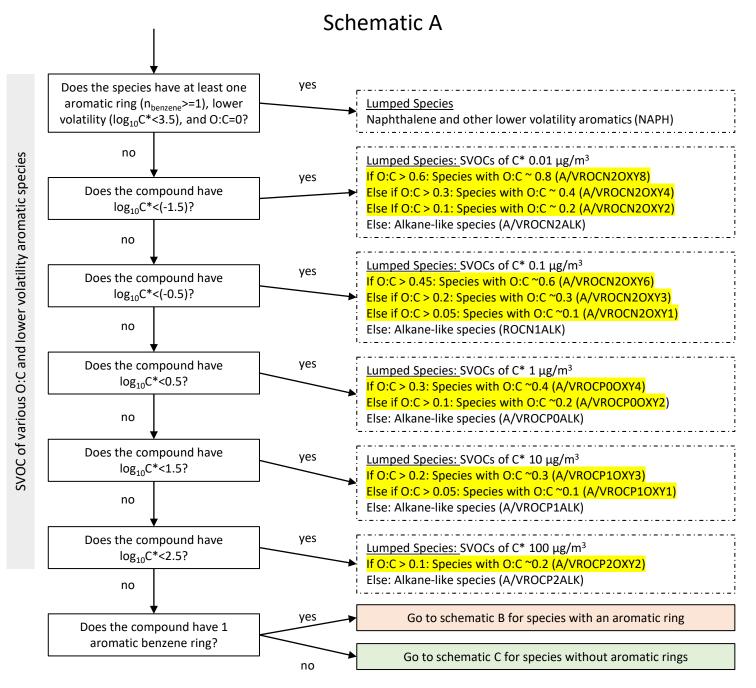
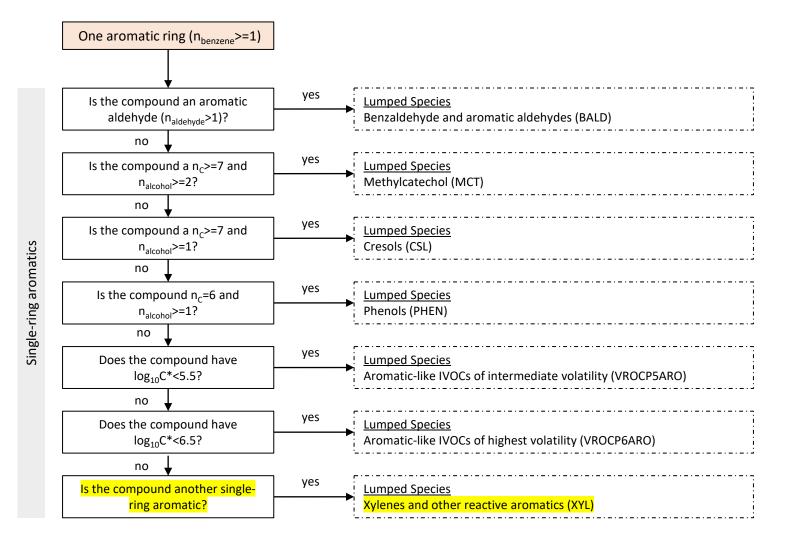
CRACMMv2.0 Emissions Mapping, Updated 8/5/2024



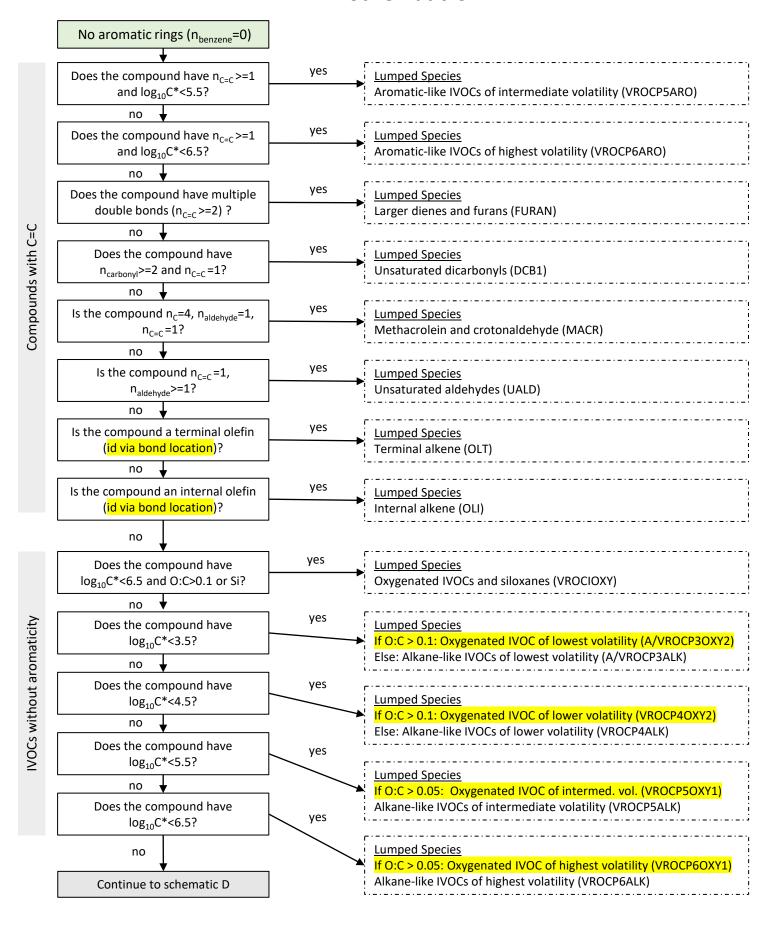
CRACMMv2.0 Emissions Mapping, Updated 8/5/2024

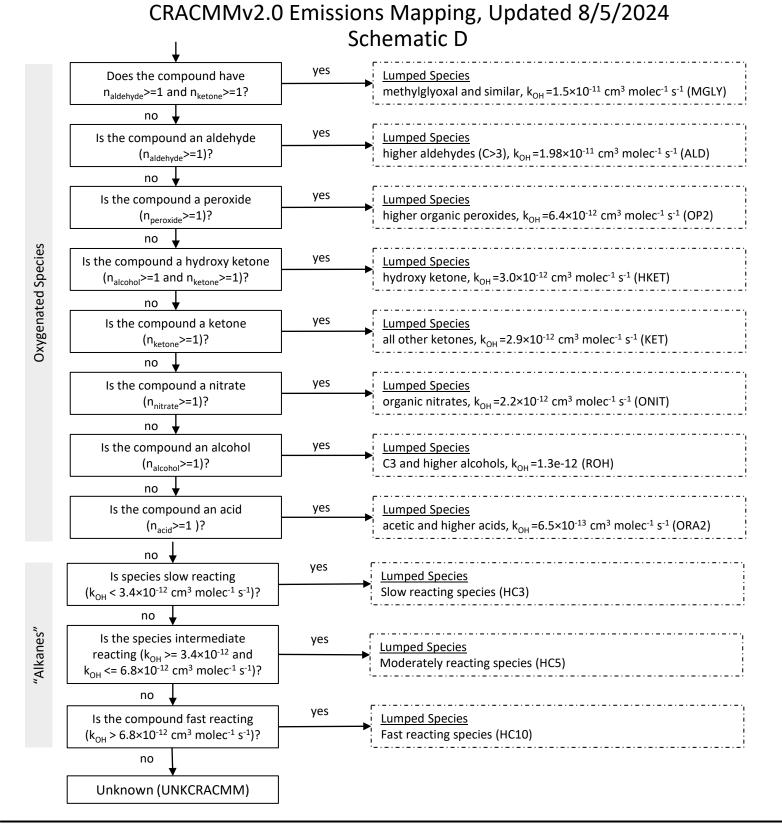


CRACMMv2.0 Emissions Mapping, Updated 8/5/2024 Schematic B



CRACMMv2.0 Emissions Mapping, Updated 8/5/2024 Schematic C





The CRACMM2 emission mapper includes some other updates for robustness that could result in small changes to mapped compounds. Some species can exist in a gas (V) or aerosol (A) phase. The python mapper includes an optional argument to label a species as gas or particle if two phases are possible. The user must specify the phase which can be calculated outside the mapper based on C* outside the mapper.

 C^* are always in $\mu g \ m^{-3}$ in this diagram.

Unknowns may be of 3 types:

- UNKKOH: unknown k_{OH} (correct by specifying better surrogate).
- UNKSMILES: unknown SMILES (correct by specifying better surrogate).
- UNKCRACMM: unknown in mapping. All ROC species eventually get classified by k_{OH}, but species that do not have any carbon atoms or are elemental
 carbon do not get mapped.

RACM2 SI: https://ars.els-cdn.com/content/image/1-s2.0-S1352231012011065-mmc1.pdf CMAQ Implementation of RACM2: