5 min aroma profile of 14 volatiles with published ODT

Low conc. showing HIGH odor impact

High conc. showing LOW odor impact

Volatiles from *loose* marijuana only
(i.e. *non-permeating*)

Axis labels (top to bottom): Hydrazine, 2-chloroacetophenone, 2-nitropropane, Limonene, Methylene chloride, α-pinene, Ethanol, Acetone, Ethylene oxide, Isobutyraldehyde, α-humulene, Benzaldehyde, β-caryophyllene, Isobutane

Rank by Concentration and Rank by Odor Activity Value

0   10

△ Concentration, Bagged (5 min)   ▲ Odor Activity Value, Bagged (5 min)
○ Concentration, Loose (5 min)   ● Odor Activity Value, Loose (5 min)

Figure S3. Dot plot illustrating hierarchy of volatiles emitted from marijuana using surrogate concentration and calculated OAV from published ODT at 5 min. Open markers represent the rank of the volatile based on surrogate concentration. Closed markers represent the rank of the volatile based on OAV. Horizontal axis reads from left to right, indicating least to most concentrated/odor active rank. Rank number is provided above and below markers for ease of reading. The general inference is a shift in rank based on OAV. Compounds with low detection thresholds tend to rank higher in OAV than rank of surrogate concentration in headspace, a relationship shown by Eq. 1. Blue box-outlined markers indicate volatiles detected in unpackaged marijuana and not detected by through-package sampling.