

Aroma Bit, Inc.  
Aroma Coder® V2 Set  
**PCA Data**  
**Juice/Coffee/Tea Leaf Samples**

April, 2022



# Principal Component Analysis [PCA] Data Samples

**35** membrane types Dataset acquired by Aroma Coder<sup>®</sup> V2 Set

## Data Sample 1: Juice & Beverages

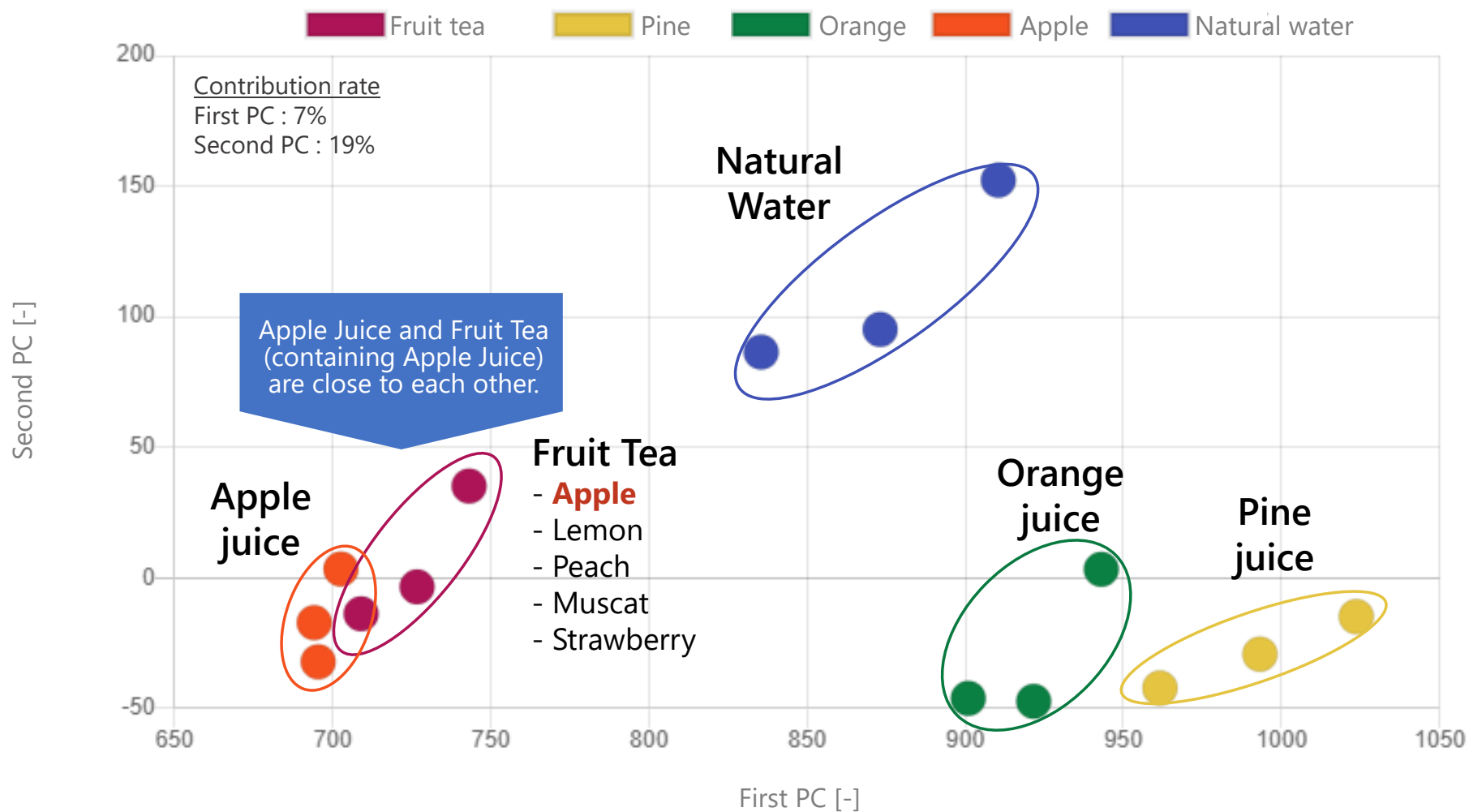
- Fruit Tea (contains Apple/Lemon/Peach/Muscat/Strawberry juice mix)
- Pineapple Juice ("Pine")
- 100% Orange Juice ("Orange")
- 100% Apple Juice ("Apple")

## Data Sample 2: Ground Coffee Beans & Tea leaf

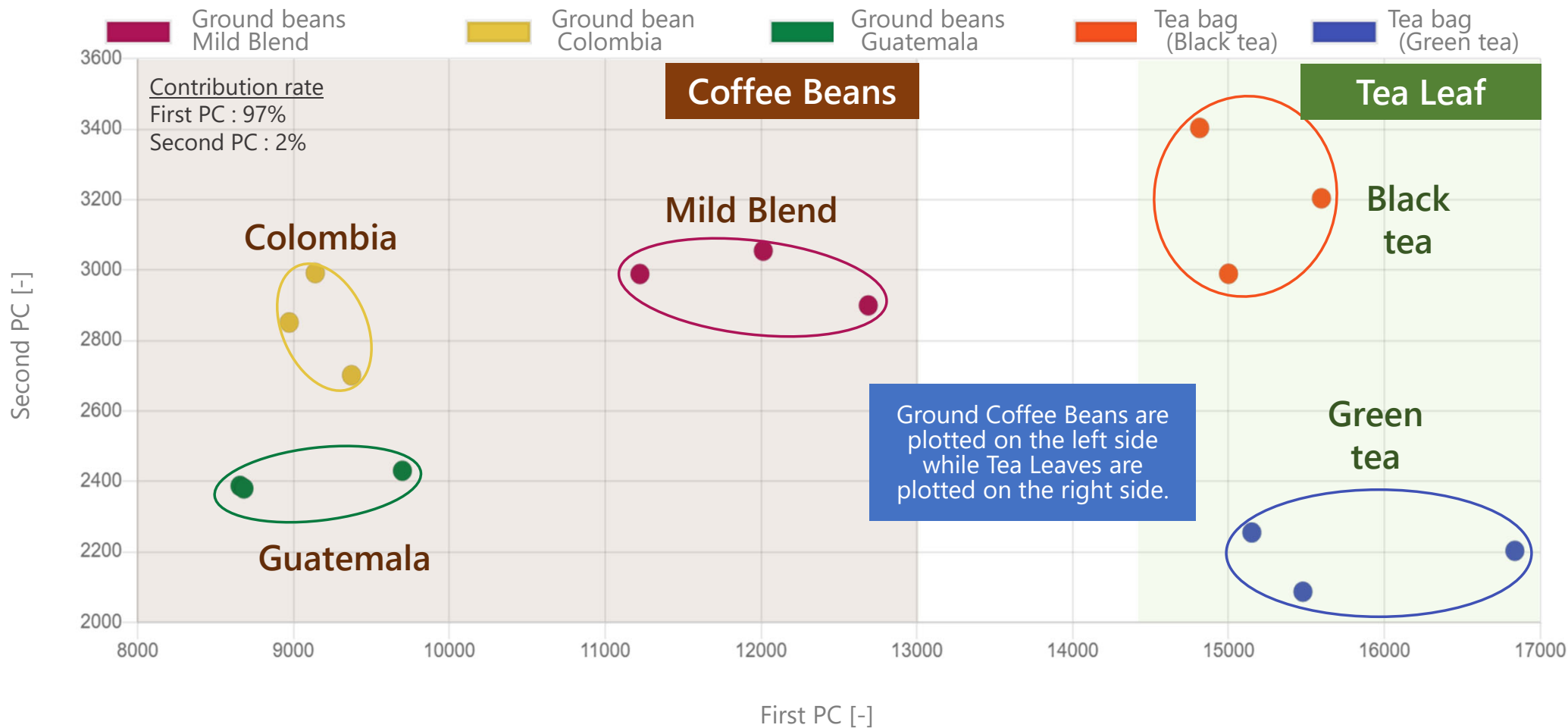
\*Dehumidifier Installed

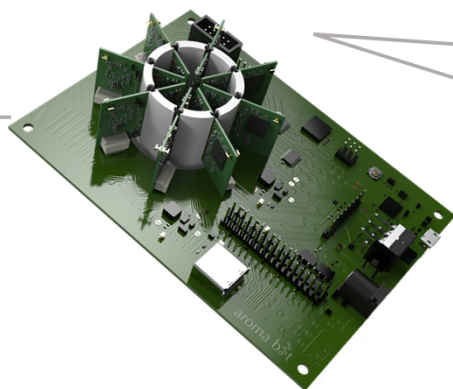
- Ground Coffee Beans (Mild Blend/Colombia/Guatemala)
- Tea Leaf (Tea bag ... Black tea, Green tea)

# PCA Data Sample 1: Juice, Beverage



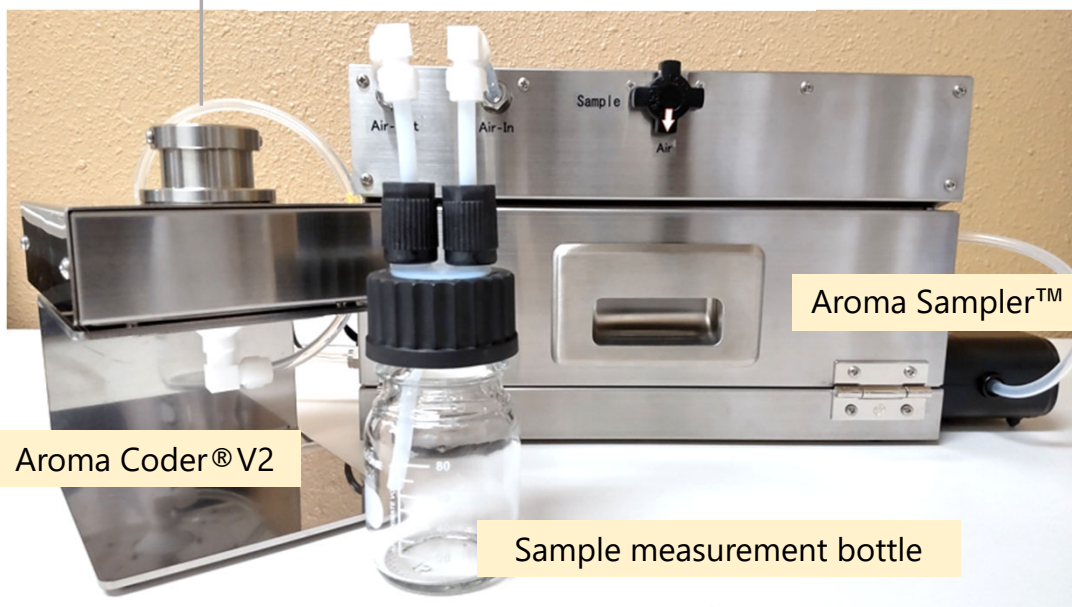
# PCA Data Sample 2: Ground beans, Tea leaf





## QCM type smell sensor module 5Q-SSM

is equipped with 5 types of receptor membranes per module. Aroma Coder V2 embeds 7 sensor modules, or 35 different types of receptor membranes per scan.



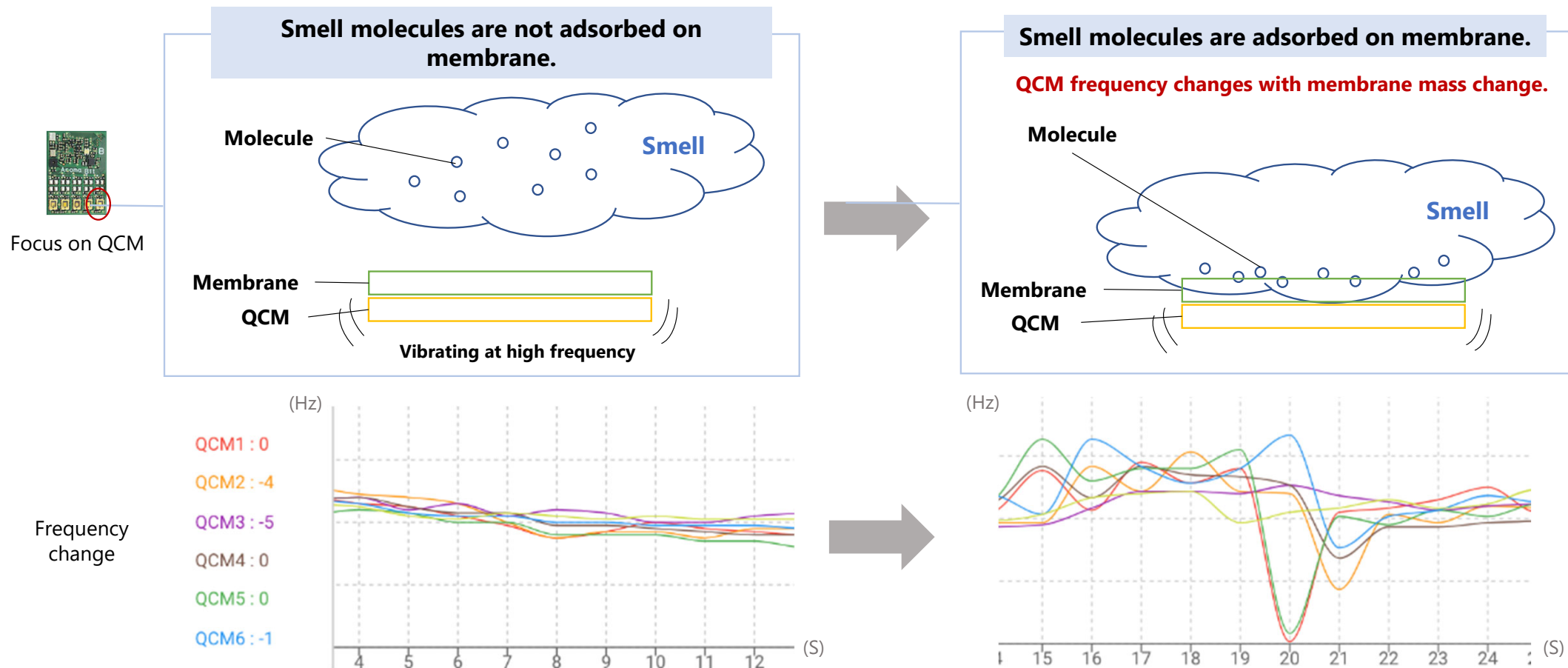
## What is Aroma Coder® V2 Set ?

Aroma Coder® V2 Set is a desktop type odor measurement equipment, equipped with 35 receptor membranes for high-resolution odor measurement.

Equipped with quartz crystal microbalance (QCM) array sensor elements, smell samples are detected and converted as electronic response data, which can be visualized by included software, enabling objective assessment of various smells.

# Mechanism of Smell to Data Conversion

Mass change is detected as QCM frequency change, induced by the adsorption/desorption of chemical substance of smell sample at receptor membrane surface.



Quality Control

Deterioration  
Detection

Product Development

Product Comparison

The product is intended to be used for quality control, product development, product comparison for food & beverages.

