Smell data construction and analysis software
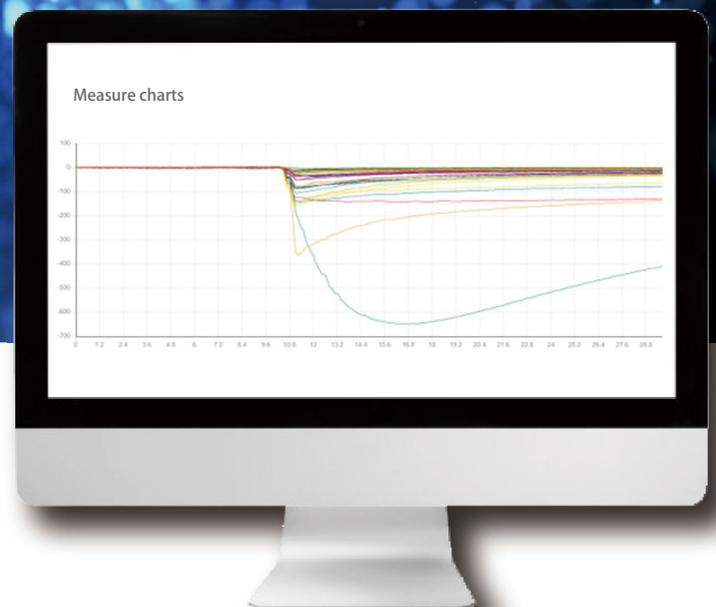
Aromalyzer

Measure charts

What is Aromalyzer ?

Construction of a smell database
Smell Matching System / Principal Component Analysis
Comparison of response values for each sample / Smell Visualization

Aroma Coder V2

5Q-SSM

Aromalyzer is smell database building engine with built-in analysis functions.

By using the software, it is possible to analyze data acquired from smell sensors and support sensor evaluation.

Also, by using the database building function, you can upload the acquired smell data to the software and build your own database.

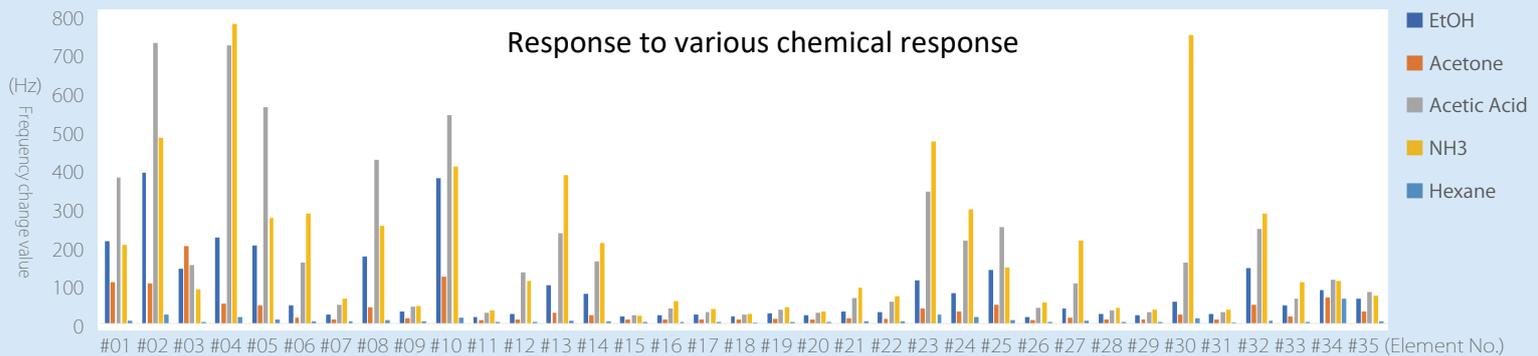# "Aromalyzer" is a software for building and analyzing smell databases.

Aromalyzer is equipped with database construction and analysis functions,
and is useful for smell sample evaluation and sensor evaluation.
By simply uploading the acquired data to Aromalyzer,
you can easily visualize the smell data and evaluate it objectively.

Main analysis functions
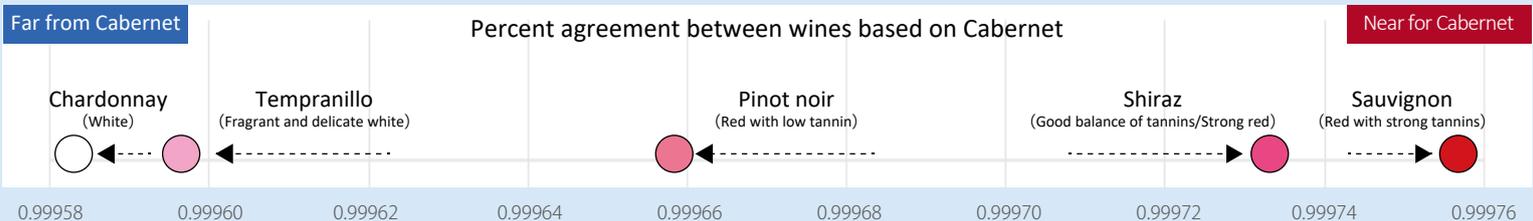
*All graphs are for illustrative purposes only.

Smell Visualization

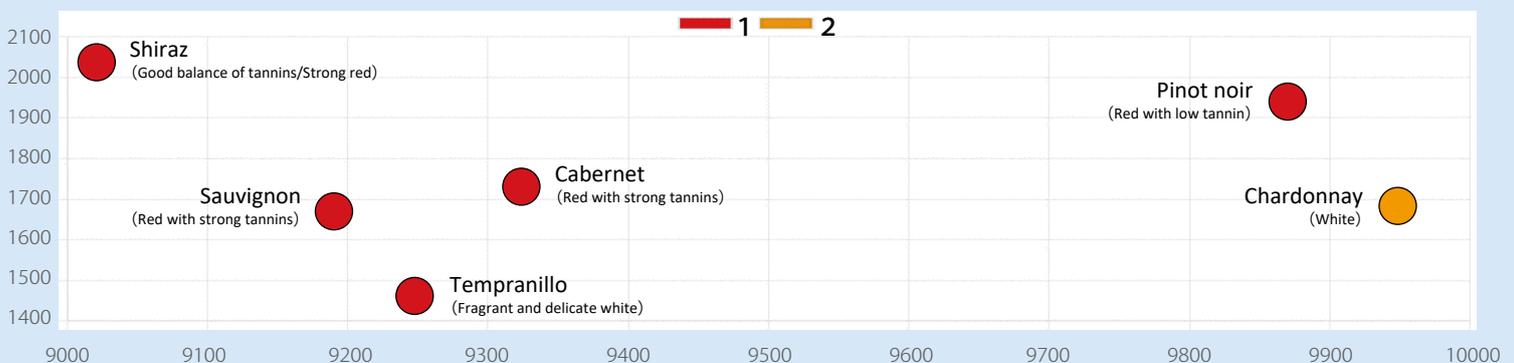From Numerical data we generate Waveform data or Bar graph.

Response to various chemical response

Legend:
- EtOH
- Acetone
- Acetic Acid
- NH3
- Hexane

Y-axis: (Hz) Frequency change value — 0, 100, 200, 300, 400, 500, 600, 700, 800

X-axis: #01 #02 #03 #04 #05 #06 #07 #08 #09 #10 #11 #12 #13 #14 #15 #16 #17 #18 #19 #20 #21 #22 #23 #24 #25 #26 #27 #28 #29 #30 #31 #32 #33 #34 #35 (Element No.)

Smell Matching System

Based on the smell data, score the degree of similarity of sample.

Percent agreement between wines based on Cabernet

Far from Cabernet — Near for Cabernet

- Chardonnay (White)
- Tempranillo (Fragrant and delicate white)
- Pinot noir (Red with low tannin)
- Shiraz (Good balance of tannins/Strong red)
- Sauvignon (Red with strong tannins)

Scale: 0.99958 0.99960 0.99962 0.99964 0.99966 0.99968 0.99970 0.99972 0.99974 0.99976

Principal Component Analysis

Based on the smell data,
main component of the acquired smell data is extracted.

Legend: 1 2

Y-axis: 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2100
X-axis: 9000, 9100, 9200, 9300, 9400, 9500, 9600, 9700, 9800, 9900, 10000

- Shiraz (Good balance of tannins/Strong red)
- Pinot noir (Red with low tannin)
- Sauvignon (Red with strong tannins)
- Cabernet (Red with strong tannins)
- Chardonnay (White)
- Tempranillo (Fragrant and delicate white)

■ How to use Aromalyzer

This application and program is a database building and analysis application
that can be used in a browser. The minimum term of use is one year.
Please refer to the following terms of use for details of the application.

[Terms of service] https://www.aromabit.com/policy/

aroma bit ®