

Supplementary material

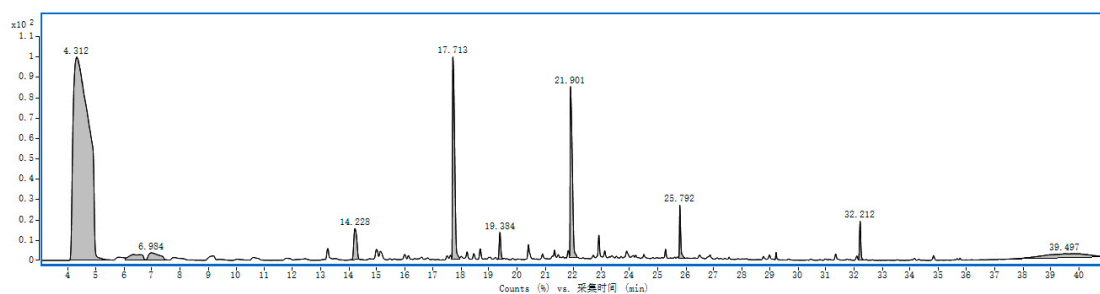
Consumer preference of six Chinese vinegar products and the correlation between these preferences and the volatile profile

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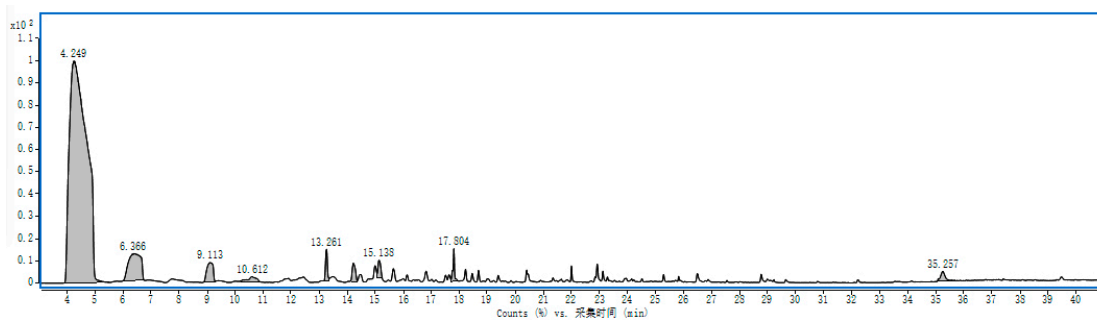
Figure S1. GC–MS total ion chromatograms of Ten-year aged Qian-he cellar vinegar (a), Ning-hua-mansion old vinegar (b), East-lake health vinegar (c), Qian-he glutinous rice vinegar (d), Heng-shun Jinyou balsamic vinegar (e), and potato vinegar (f)

Figure S2. Geographical distribution of respondents

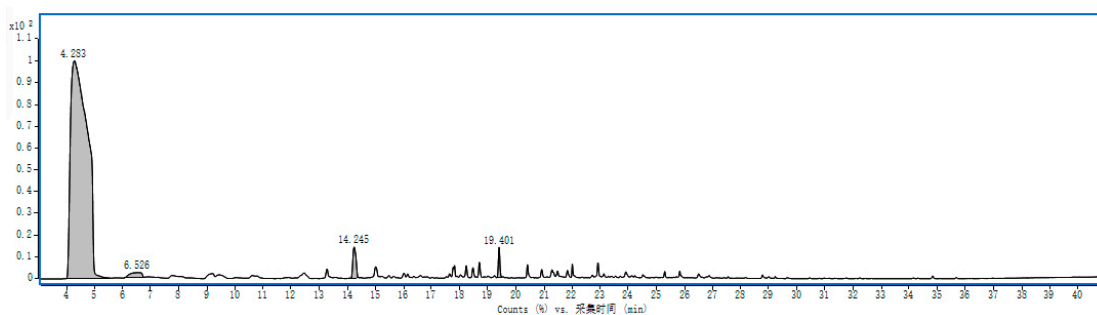
Table S1. Coefficient of PLSR models for each cluster of consumers



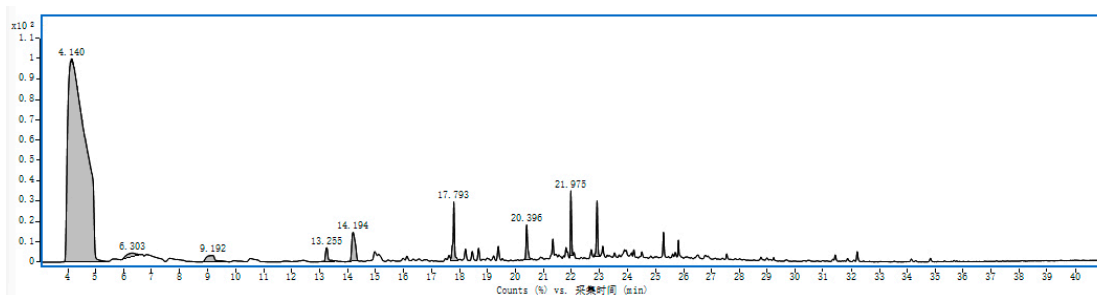
(a)



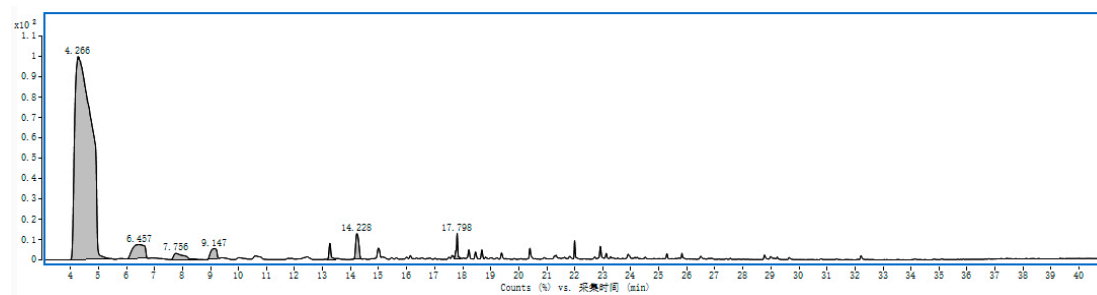
(b)



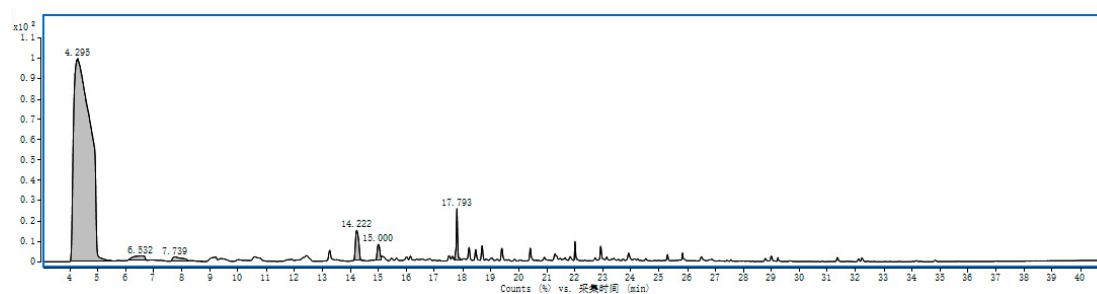
(c)



(d)



(e)



(f)

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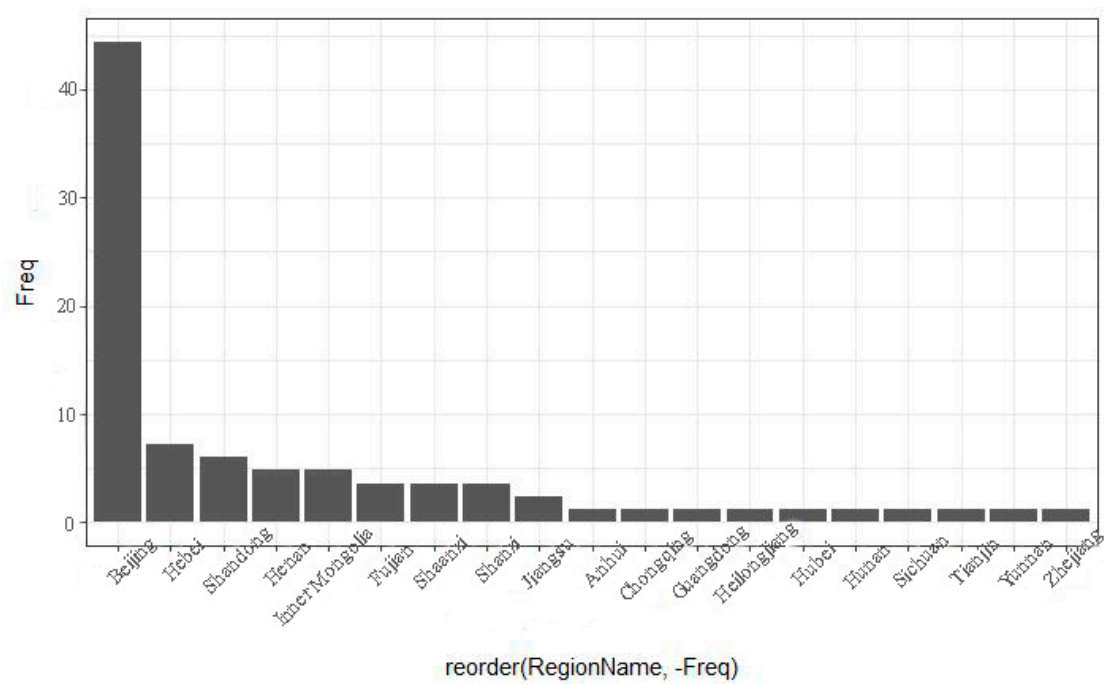


Figure S2. Geographical distribution of respondents

Table S1. Coefficient of PLSR models for each cluster of consumers

Compounds	Cluster 1	Cluster 2	Cluster 3
(Intercept)	3.456050575	2.900285975	4.191192809
ethyl acetate	0.052992195	0.041256449	-0.070823343
ethyl propionate	0.033226395	-0.038808468	0.021024787
n-propyl acetate	0.015631291	0.033368651	-0.041774873
isobutyl acetate	-0.066571488	0.02835015	0.042447526
isoamyl acetate	-0.06560561	0.041076224	0.031000854
1,2-propanediol,2-acetate	-0.009335841	-0.105296627	0.098242768
trimethylene acetate	0.019216632	0.024812648	-0.021426136
ethyl benzoate	-0.040300354	0.011777259	0.00356481
diethyl succinate	-0.000520397	-0.000989915	-0.027134602
β -phenethyl acetate	-0.029356264	0.011517687	-0.009063298
3-methylbutyraldehyde	-0.031357201	-0.019869663	0.023904848
benzaldehyde	0.001445659	0.105303412	-0.079789235
phenylethanal	-0.029101826	0.060336093	-0.019420937
1H-pyrrole-2-carbaldehyde	0.049832435	-0.032009312	-0.016141079
1-methylpyrrole-2-carboxaldehyde	0.056461276	-0.0558709	-0.00541892
acetic acid	0.030254114	-0.073879974	0.011811463
propionic acid	0.000872921	0.033833727	-0.014087127
butyric acid	0.009977118	-0.022896813	-0.018547984
isovaleric acid	-0.010305801	-0.0076494	-0.012206123
2-methylbutyric acid	-0.031056199	-0.038246816	0.034674256
caproic acid	0.02837145	-0.047412738	-0.010856694
octanoic acid	0.012979257	0.018098937	-0.020847446
3-methyl-1-butanol	-0.062073097	0.064716415	0.005063059
2,3-butanediol	0.023296506	-0.018329507	-0.017762306
phenethyl alcohol	-0.048565622	0.028894366	0.000362014
3-hydroxy-2-butanone	0.008852308	0.058896707	-0.040114937
acetophenone	0.024755389	-0.01075851	-0.012285165
2-pyrrolidinone	0.015366998	0.013310501	-0.02569417
guaiacol	0.03433283	-0.00821627	-0.019156161
4-ethyl-2-methoxyphenol	0.009974038	0.043634815	-0.033003297
4-ethylphenol	0.032232916	-0.004745407	-0.020376677
furfural	0.012935676	0.005873907	-0.029868392
acetylfuran	0.055803374	-0.03347207	-0.024573253
furfuryl acetate	-0.028128301	-0.012741882	0.029009408
1-pentanone, 1-(2-furanyl)-	0.030733207	-0.008019582	-0.015948382
3-furanmethanol	0.018710568	-0.045957467	0.020376849
1-(5-methyl-2-furyl)ethan-1-one	0.034481453	-0.008259147	-0.019263956
4-(2-furyl)-3-buten-2-one	0.04267412	-0.057801153	0.012151728
5-acetyldihydrofuran-2(3H)-one	0.014780012	0.012897748	-0.024650172

2,3-dimethyl pyrazine	0.04513335	-0.012656225	-0.02329515
2,3,5-trimethylpyrazine	0.045061374	-0.01499961	-0.019847758
1,3-dioxolane,2,4,5-trimethyl-	-0.016288298	0.05002548	-0.049529314
naphthalene	0.001916086	0.031807084	-0.013324674
2-methylnaphthalene	0.026804324	0.001872652	-0.013945558
2-phenylthiophene	0.014762988	-0.032287877	0.0133418
4-acetoxy-3-methoxystyrene	-0.029428267	-0.090655639	0.099931345

n = 30 for cluster 1, n = 18 for cluster 2 and n = 28 for cluster 3.