



Supplementary material

Table S1. Relative contents of terpenes (means \pm standard error) of *Citrus volkameriana* (CV), Carrizo citrange (CC), Forner-Alcaide no. 5 (FO) and *Citrus aurantium* (CA). Statistical results of the Kruskal–Wallis ANOVA Test examining the variations of the relative terpene contents between the four *Citrus* varieties (d.f. = 3); p-value where * $p < 0.05$, and ** $p < 0.01$. NS: not significant. N° samples: 4 for each variety.

Compound	<i>Citrus varieties</i>								$\chi^2(p)$
	CV		CC		FO		CA		
α -pinene	0.62	± 0.05	0.57	0.11	0.55	0.10	0.13	0.00	8.74 *
camphene	0.02	± 0.00	0.05	0.01	0.05	0.01	0.07	0.01	6.73 NS
β -pinene	0.49	± 0.02	0.02	0.01	0.02	0.00	0.62	0.03	12.50 **
sabinene	15.01	± 0.81	0.12	0.01	0.13	0.02	0.17	0.01	11.54 **
δ -3-carene	0.01	± 0.00	5.48	0.67	6.21	0.40	0.66	0.04	12.73 **
myrcene	1.24	± 0.19	5.32	0.75	6.44	1.58	1.04	0.02	11.40 **
α -phellandrene	0.04	± 0.00	0.69	0.08	0.94	0.12	0.06	0.00	13.50 **
α -terpinene	0.06	± 0.00	0.19	0.02	0.19	0.02	0.04	0.00	12.71 **
limonene	36.09	± 3.78	57.02	4.45	46.93	2.53	0.31	0.04	12.80 **
γ -terpinene	0		0.17	0.01	1.18	0.98	0.01	0.00	13.25 **
ocimene	2.17	0.21	4.81	1.08	6.46	0.79	1.17	0.08	11.93 **
p-cymene	0.03	0.00	0.03	0.00	0.05	0.01	0.02	0.00	9.82 *
terpinolene	0.09	0.01	2.83	0.80	1.96	0.22	0.16	0.01	12.80 **
nonanal	0.35	0.04	0		0		0		
linalool	14.40	3.11	1.52	0.39	2.45	0.63	63.73	1.36	13.59 **
linalyl acetate	0		0		0		28.35	1.15	
α -terpineol	0.45	0.11	0.29	0.17	0.30	0.14	0.09	0.01	3.40 NS
geranyl acetate	0.32	0.31	0.62	0.61	1.00	1.00	1.04	0.13	3.08 NS
β -citronellol	1.45	0.49	0.52	0.52	1.85	0.75	0		5.90 NS
nerol	0.33	0.06	0.08	0.02	0.10	0.02	0.40	0.04	11.93 **
geraniol	0.15	0.07	3.32	0.96	6.69	1.70	0.71	0.08	13.50 **
citronellal	25.49	2.90	3.71	1.29	7.76	1.32	0.17	0.03	13.5 **
β -caryophyllene	0.45	0.23	4.58	1.44	2.93	1.04	0.55	0.09	11.60 **
α -humulene	0.13	0.13	0.90	0.12	0.54	0.24	0.13	0.08	9.16 *
δ -elemene	0.08	0.02	0.14	0.03	0.08	0.02	0.02	0.00	10.48 *
elixene	0		0.09	0.05	0.10	0.06	0.11	0.02	4.43 NS
β -ylangene	0.01	0.00	0.21	0.09	0.12	0.05	0		13.11 **
γ -elemene	0.25	0.04	2.21	0.41	1.61	0.40	0		13.10 **
β -farnesene	0		1.69	0.62	1.27	0.45	0.03	0.01	12.92 **
germacrene	0.01	0.01	2.54	0.66	1.62	0.40	0.01	0.00	13.11 **
sesquiterpene	0.26	0.04	0.28	0.04	0.49	0.14	0.23	0.05	3.07 NS

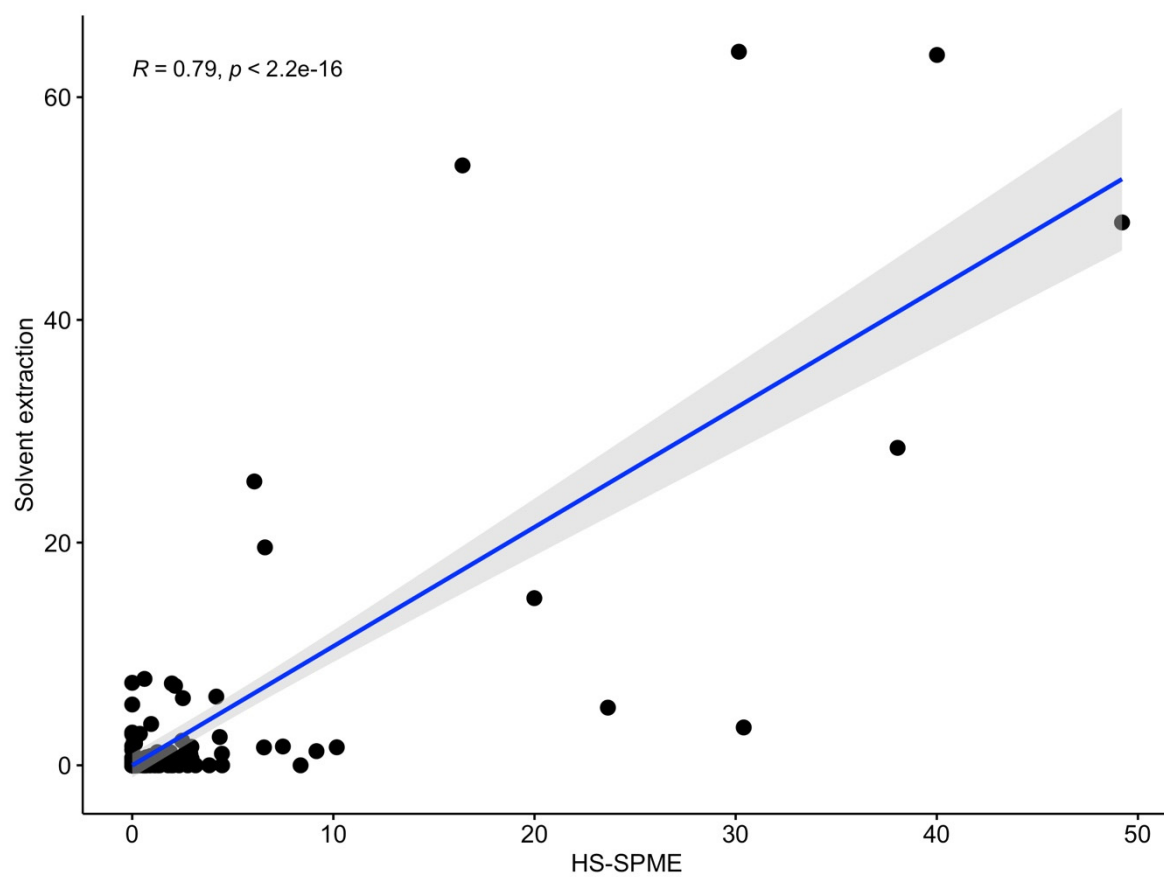


Figure S1. Correlation analysis between HS-SPME and solvent extraction results for each variety investigated. The Pearson Correlation Coefficient ($R = 0.79$) and the p-value ($p < 2.2e-16$) were reported.