

'Adelita' Morocco (S1) 'P04' Spain (S2) 'Lupita' Spain (S3) 'Enrosadira' Spain (S4)



'P10' Spain (S5) 'Quanza' Spain (S6) 'Lupita' Morocco (S7) 'Versalles' Spain (S8)



'Adelita' Spain (S9) 'Adelita' Spain (S10) 'Adelita' Spain (S11) 'Adelita' Spain (S12)



Figure S1. Raspberry cultivars used in this study.

Table S1. Validation parameters for the HS-SPME/GM-MS optimized method: Linear range (mg Kg⁻¹), R² value, LOD (µg Kg⁻¹), LOQ (µg Kg⁻¹), Intra-day and Inter-day repeatability (Peak area RSD (%)).

Parameters	Hexanal	Decanal	Nonanal	Linalool	α-Ionone	β-Ionone
Linear range	0.003-1.540	0.002-1.417	0.267-5.331	0.003-0.887	0.003-3.406	0.010-4.937
R ² value	0.996	0.991	0.999	0.998	0.991	0.996
LOD	0.40 ± 0.04	0.44 ± 0.12	0.49 ± 0.03	0.58 ± 0.09	0.43 ± 0.03	0.46 ± 0.06
LOQ	1.33 ± 0.14	1.5 ± 0.4	1.63 ± 0.09	1.9 ± 0.3	1.42 ± 0.09	1.5 ± 0.2
Intra-day repeatability	1.5	0.9	10.7	7.6	0.7	2.3
Inter-day repeatability	7.3	10.5	12.4	12.1	4.3	6.6