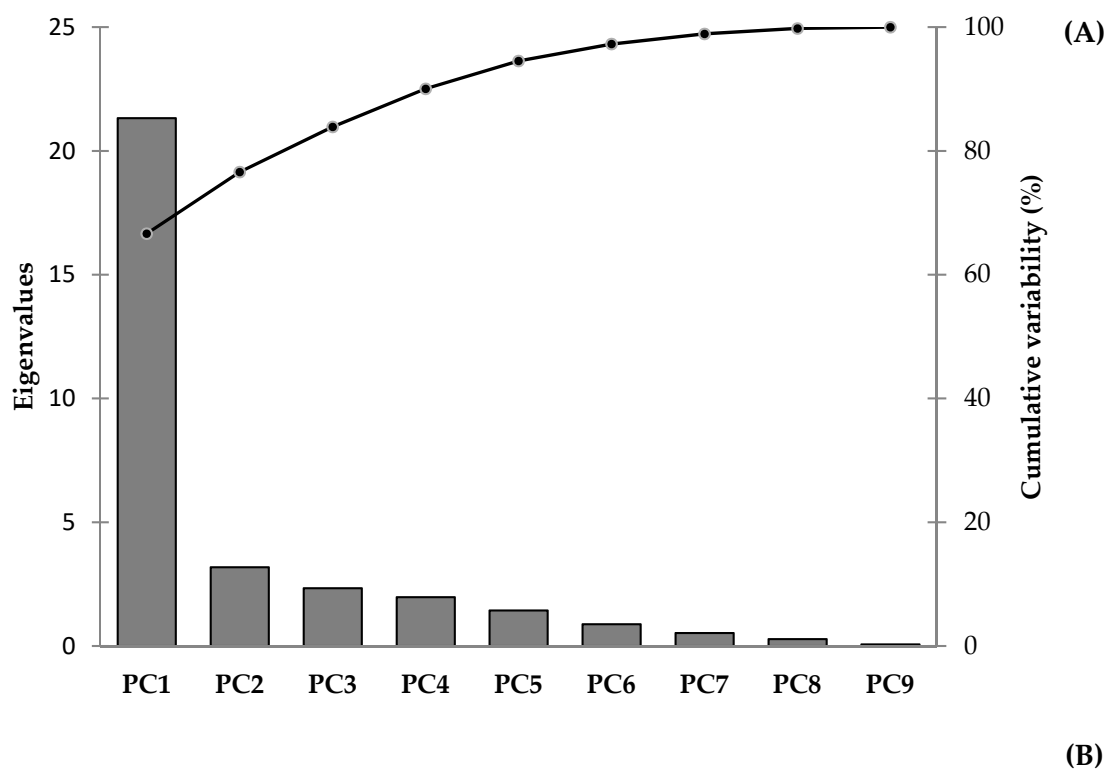


Supplementary data

Figure S1. Cattell's scree diagram (A) based on the eigenvalues and the cumulative variability (B) obtained for principal component analysis of VOCs produced by the wild-type and the UV-generated mutants of *S. suaveolens*

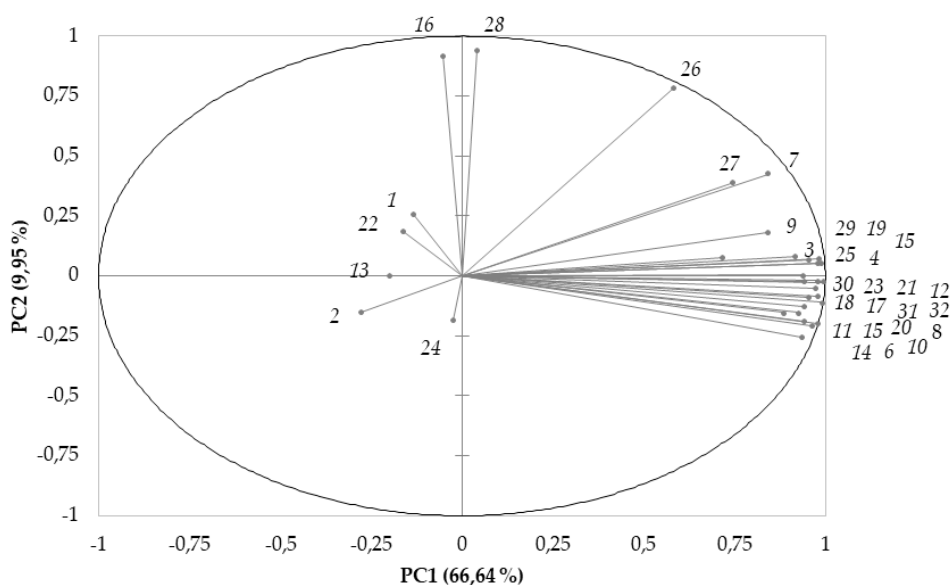


	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9
Eigenvalues	21,325	3,184	2,335	1,970	1,435	0.879	0.523	0.280	0.068
Variability (%)	66,641	9,951	7,297	6,157	4,484	2,747	1,635	0.875	0.212
Cumulative variability (%)	66,641	76,593	83,890	90,047	94,531	97,278	98,913	99,788	100.000

Table S1. Correlation data between VOCs and principle component obtained for principal component analysis of VOCs produced by the wild-type and the UV-generated mutants of *S. suaveolens*

ID n°	Compound	PC1	PC2	PC3	PC4	PC5
1	2-phenylethanol	-0.134	0.257	0.788	-0.013	0.073
2	2-methylbutyl 2-methylbut-2Z-enoate	-0.278	-0.149	0.102	0.820	0.159
3	2-methylbutyl 2-methylbutanoate	0.925	-0.152	-0.100	-0.083	-0.183
4	2-methylbutyl 3-methylbutanoate	0.939	0.003	0.200	0.122	-0.223
5	2-methylbutyl acetate	0.962	-0.210	0.088	-0.024	-0.034
6	2-methylbutyl butanoate	0.941	-0.127	0.173	0.094	-0.221
7	2-methylbutyl propanoate	0.841	0.425	-0.304	-0.085	-0.082
8	2-methylpropyl 2-methylbut-2E-enoate	0.886	-0.152	-0.285	0.266	0.088
9	2-methylpropyl 2-methylbut-2Z-enoate	0.718	0.076	0.478	-0.098	0.416
10	2-methylpropyl 2-methylbutanoate	0.940	-0.021	-0.090	0.040	0.000
11	2-methylpropyl 3-methylbutanoate	0.943	-0.187	0.001	0.052	0.034
12	2-methylpropyl acetate	0.954	-0.090	0.203	0.032	-0.165
13	2-methylpropyl butanoate	-0.199	0.002	0.315	-0.551	0.522
14	2-methylpropyl propanoate	0.979	-0.019	-0.071	0.089	-0.143
15	3-methylbutyl acetate	0.980	0.052	-0.127	-0.022	-0.120
16	3-methylbutyl propanoate	-0.054	0.921	-0.260	-0.119	0.160
17	butyl 2-methylbut-2E-enoate	0.972	-0.052	0.145	-0.094	0.114
18	ethyl 2-methylbut-2E-enoate	0.918	0.082	-0.040	0.064	0.336
19	ethyl 2-methylbutanoate	0.955	0.065	-0.101	-0.030	-0.032
20	ethyl 2-methylpropanoate	0.990	-0.110	-0.005	-0.065	-0.009
21	ethyl 3-methylbutanoate	0.995	-0.026	-0.064	-0.031	0.020
22	ethyl 3-methylpentanoate	-0.161	0.186	0.746	0.435	-0.387
23	ethyl but-2E-enoate	0.935	-0.257	-0.052	-0.144	-0.022
24	ethyl butanoate	-0.025	-0.182	-0.254	0.723	0.514
25	ethyl octanoate	0.987	0.052	0.071	0.031	0.103
26	octyl 2-methylpropanoate	0.583	0.785	-0.146	0.135	0.014
27	octyl acetate	0.746	0.392	0.432	0.002	-0.056
28	octyl butanoate	0.042	0.944	-0.153	0.224	-0.122
29	octyl propanoate	0.983	0.073	-0.093	-0.120	0.021
30	phenethyl 2-methylbutanoate	0.840	0.180	0.250	0.104	0.388
31	propyl 2-methylbut-2E-enoate	0.978	-0.197	-0.022	-0.010	0.024
32	propyl 2-methylbutanoate	0.980	-0.084	-0.089	0.032	-0.002

Figure S2. Different VOCs contribution to PC1 and PC2 axis obtained for principal component analysis of VOCs produced by the wild-type and the UV-generated mutants of *S. suaveolens*



VOCs ID number : **1**: 2-phenylethanol ; **2**: 2-methylbutyl 2-methylbut-2Z-enoate; **3**: 2-methylbutyl 2-methylbutanoate ; **4**: 2-methylbutyl 3-methylbutanoate ; **5**: 2-methylbutyl acetate ; **6**: 2-methylbutyl butanoate ; **7**: 2-methylbutyl propanoate ; **8**: 2-methylpropyl 2-methylbut-2E-enoate ; **9**: 2-methylpropyl 2-methylbut-2Z-enoate ; **10**: 2-methylpropyl 2-methylbutanoate ; **11**: 2-methylpropyl 3-methylbutanoate ; **12**: 2-methylpropyl acetate ; **13**: 2-methylpropyl butanoate ; **14**: 2-methylpropyl propanoate ; **15**: 3-methylbutyl acetate ; **16**: 3-methylbutyl propanoate ; **17**: butyl 2-methylbut-2E-enoate ; **18**: ethyl 2-methylbut-2E-enoate ; **19**: ethyl 2-methylbutanoate ; **20**: ethyl 2-methylpropanoate ; **21**: ethyl 3-methylbutanoate ; **22**: ethyl 3-methylpentanoate ; **23**: ethyl but-2E-enoate ; **24**: ethyl butanoate ; **25**: ethyl octanoate ; **26**: octyl 2-methylpropanoate ; **27**: octyl acetate ; **28**: octyl butanoate ; **29**: octyl propanoate ; **30**: phenethyl 2-methylbutanoate ; **31**: propyl 2-methylbut-2E-enoate ; **32**: propyl 2-methylbutanoate