

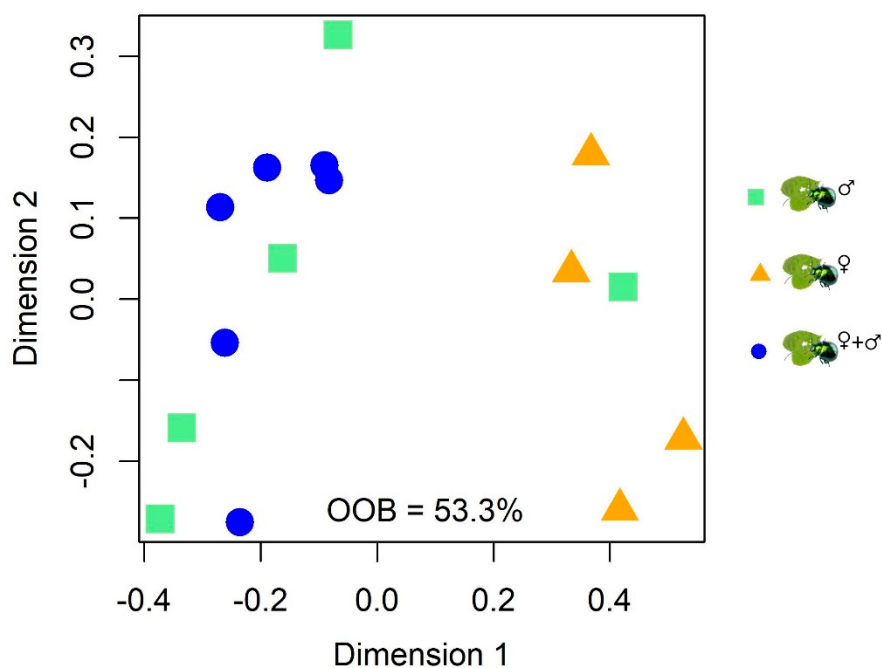


Figure S1. Multidimensional scaling plot of Random Forest (RF) classification analysis of volatile profiles released from aspen seedlings damaged by different genders. Seedlings were infested for approximately 48 hours by *P. laticollis* female adults (♀), or male adults (♂), or a mixture of females and males. During 100000 replicated tree constructions samples were poorly classified, with the out-of-bag (OOB) error being 53.3%.

Table S1. Summary of leaf area consumption based on visual estimation.

	Female (n = 4)	Male (n = 5)	Female + Male (n = 6)
Leaf area consumed (%)	13.8 ± 3.1	15.2 ± 2.3	11.7 ± 2.1

Data are mean ± SEM. There were no statistically significant differences in damage levels among experiments.

Table S2. Timelines for olfactory bioassay.

Constitutive VOC versus clean air	Constitutive versus induced VOC		
	Female + Male	Male	Female
06/09/2015	06/10/2015	07/02/2015	07/23/2015
06/10/2015	06/12/2015	07/07/2015	08/04/2015
06/11/2015	06/16/2015	07/09/2015	08/06/2015
06/12/2015	06/22/2015	07/15/2015	08/29/2015
	06/24/2015	07/16/2015	
	07/01/2015		

Table S3. Volatile emissions of hybrid aspen seedlings upon attack by *P. laticollis* adults of different genders. Emission rates are expressed in nanograms per gram leaf dry weight per hour. Means $\pm$ SEM are shown, with replicates displayed in brackets. Asterisks indicate significant differences between control and damaged plants within each gender treatment (P values < 0.05) after a Paired T-test or Wilcoxon matched-pairs signed-ranks tests. Different upper- and lower-case letters indicate significant differences among genders within control and damage treatments, respectively, based on pairwise Wilcoxon-Mann-Whitney tests using Benjamini and Hochberg post hoc correction following Kruskal-Wallis tests. Compounds that were characterized by Random Forest analysis as the most important discriminating between control and damaged plants, irrespective of genders of the attacking herbivores, are highlighted in bold.

Compound	Female (n = 4)		Male (n = 5)		Female + Male (n = 6)	
	Control	Damage	Control	Damage	Control	Damage
Isoprene	3379.23 $\pm$ 1301.03	2050.79 $\pm$ 631.6	4358.88 $\pm$ 1029.2	3033.59 $\pm$ 1102.07	2140.08 $\pm$ 893.23	2012.24 $\pm$ 624.33
Monoterpenes						
α -Pinene ^s	11.87 $\pm$ 1.8	10.91 $\pm$ 2.24	16.42 $\pm$ 8.27	18.41 $\pm$ 10.81	9.93 $\pm$ 1.13	8.33 $\pm$ 1.28
Camphene ^s	2.01 $\pm$ 0.31	1.96 $\pm$ 0.37	1.82 $\pm$ 0.72	2.03 $\pm$ 1.01	1.35 $\pm$ 0.11	1.17 $\pm$ 0.21
Sabinene ^s	3.56 $\pm$ 1.58	3.87 $\pm$ 1.48	4.19 $\pm$ 1.17	2.17 $\pm$ 0.71	5.9 $\pm$ 1.09	1.85 $\pm$ 0.21*
β -Pinene ^s	0.75 $\pm$ 0.3	0.82 $\pm$ 0.36	2.32 $\pm$ 1.65	2.29 $\pm$ 1.86	1.32 $\pm$ 0.3	0.5 $\pm$ 0.08*
Myrcene ^s	1.56 $\pm$ 0.2	3.39 $\pm$ 0.54*	1.26 $\pm$ 0.51	2.17 $\pm$ 0.81	0.89 $\pm$ 0.24	1.88 $\pm$ 0.31*
β -terpinene	0.02 $\pm$ 0.01	0.28 $\pm$ 0.13*	0 $\pm$ 0	0.07 $\pm$ 0.03	0 $\pm$ 0	0.05 $\pm$ 0.02*
Carene ^s	0.2 $\pm$ 0.08	0.74 $\pm$ 0.16	3.11 $\pm$ 3.03	4.48 $\pm$ 4.19	0.24 $\pm$ 0.13	0.46 $\pm$ 0.07
Unidentified monoterpene	0.02 $\pm$ 0.01	1.04 $\pm$ 0.1*a	0.03 $\pm$ 0.03	0.27 $\pm$ 0.08*b	0 $\pm$ 0	0.27 $\pm$ 0.04*b
o-Cymene	0.59 $\pm$ 0.14	0.62 $\pm$ 0.17	0.95 $\pm$ 0.38	1.09 $\pm$ 0.44	0.87 $\pm$ 0.29	0.81 $\pm$ 0.11
Limonene ^s	2.69 $\pm$ 0.48	5.63 $\pm$ 0.95	4.92 $\pm$ 3.37	7.37 $\pm$ 4.33	2.49 $\pm$ 0.77	3.18 $\pm$ 0.48
(Z)-Ocimene ^s	1.12 $\pm$ 0.21	8.92 $\pm$ 2.15*	1.79 $\pm$ 1	7.08 $\pm$ 2.33	0.8 $\pm$ 0.19	8.62 $\pm$ 2.09*
Eucalyptol ^s	0.33 $\pm$ 0.09	3.93 $\pm$ 2.12	0.63 $\pm$ 0.48	1.82 $\pm$ 1.06	0.47 $\pm$ 0.19	1.78 $\pm$ 0.87*
(E)-β-Ocimene	20.59 $\pm$ 2.21A	216.95 $\pm$ 7.77*	18.19 $\pm$ 2.93A	144.51 $\pm$ 42.4*	7.48 $\pm$ 1.44B	187.75 $\pm$ 40.82*
γ -Terpinene ^s	0 $\pm$ 0	0.6 $\pm$ 0.36*	0.17 $\pm$ 0.12	0.17 $\pm$ 0.16	0.02 $\pm$ 0.02	0.14 $\pm$ 0.07
(E)-Linalool oxide	0.23 $\pm$ 0.03	6.3 $\pm$ 1.6*a	0.07 $\pm$ 0.03	0.9 $\pm$ 0.46b	0.18 $\pm$ 0.08	0.98 $\pm$ 0.25*b
(Z)-Linalool oxide	0.45 $\pm$ 0.19	7.79 $\pm$ 3.38*a	0.34 $\pm$ 0.1	0.94 $\pm$ 0.45b	0.45 $\pm$ 0.12	0.75 $\pm$ 0.21b
α -Terpinolene ^s	0.13 $\pm$ 0.05	0.74 $\pm$ 0.18*	0.14 $\pm$ 0.1	0.31 $\pm$ 0.13	0.08 $\pm$ 0.03	0.33 $\pm$ 0.15
Linalool ^s	5.68 $\pm$ 1.31	145.11 $\pm$ 30.31*a	3.54 $\pm$ 0.58	30.97 $\pm$ 11.04*b	3.58 $\pm$ 0.83	29.7 $\pm$ 5.39*b
6-Ethenyldihydro-2,2,6-trimethyl-2H-pyran-3(4H)-one	1.23 $\pm$ 0.62	14.24 $\pm$ 2.89*a	0.69 $\pm$ 0.11	1.81 $\pm$ 0.88b	0.87 $\pm$ 0.18	1.07 $\pm$ 0.23b
Allo-Ocimene ^s	0 $\pm$ 0	0.36 $\pm$ 0.05*	0.01 $\pm$ 0	0.09 $\pm$ 0.06	0 $\pm$ 0	0.13 $\pm$ 0.06

Cosmene	0.2 ± 0.06	2.17 ± 0.16*	0.06 ± 0.04	1.04 ± 0.51	0.01 ± 0.01	1.39 ± 0.49*
2-Bornanone	0.19 ± 0.13	0.48 ± 0.14	0.15 ± 0.1	0.27 ± 0.17	0.17 ± 0.05	0.29 ± 0.19
(<i>E</i>)-Pyran linalool oxide	0.31 ± 0.15	10.47 ± 3.13*a	0.23 ± 0.06	0.78 ± 0.41b	0.4 ± 0.12	0.77 ± 0.11*b
Isothujol	0.2 ± 0.1	0.48 ± 0.08	0.15 ± 0.06	0.29 ± 0.11	0.23 ± 0.05	0.29 ± 0.05
Terpinen-4-ol [§]	0.91 ± 0.36	3.85 ± 0.63*a	0.52 ± 0.19	1.54 ± 0.44b	0.5 ± 0.16	0.97 ± 0.12*b
α-Terpineol [§]	0.08 ± 0.05	0.85 ± 0.17*a	0.04 ± 0.04	0.12 ± 0.07b	0.15 ± 0.09	0.06 ± 0.04b
Carvone	0.01 ± 0.01	0.06 ± 0.01	0.01 ± 0	0.02 ± 0.01	0.01 ± 0	0.04 ± 0.02
Total Monoterpenes	54.92 ± 3.44	452.54 ± 37.88*	61.75 ± 22.08	233.01 ± 70.48*	38.41 ± 6.13	253.57 ± 46.98*
Homoterpenes						
(<i>Z</i>)-DMNT [§]	0.18 ± 0.08	1.34 ± 0.21*	0.18 ± 0.08	0.46 ± 0.23	0.12 ± 0.05	0.5 ± 0.14*
(<i>E</i>)-DMNT [§]	18.12 ± 4.25A	28.71 ± 11.93a	4.16 ± 1.2B	5.61 ± 2.11b	1.69 ± 0.24C	3.61 ± 0.72*b
TMTT	111.19 ± 36.22A	190.66 ± 75.92a	16.86 ± 6.06B	32.78 ± 23.25ab	3.92 ± 0.74C	8.8 ± 2.46b
Total Homoterpenes	129.49 ± 34.29A	220.7 ± 77.34a	21.2 ± 7.19B	38.84 ± 24.87b	5.73 ± 0.78C	12.92 ± 2.94*b
Sesquiterpenes						
α-Copaene [§]	0.16 ± 0.08	1.39 ± 0.39*	0.1 ± 0.06	0.51 ± 0.21	0.04 ± 0.01	0.57 ± 0.19*
β-Elemene [§]	0.43 ± 0.16A	2.53 ± 0.82*	0.01 ± 0.01B	0.56 ± 0.21*	0 ± 0B	0.53 ± 0.24*
Eudesma-1,4(15),11-triene	0.23 ± 0.1	0.4 ± 0.19	0.06 ± 0.02	0.16 ± 0.07	0.07 ± 0.02	0.1 ± 0.03
Valencene	0.55 ± 0.29	0.91 ± 0.37	0.11 ± 0.04	0.32 ± 0.13	0.12 ± 0.03	0.25 ± 0.08
Longifolene [§]	0 ± 0	0.02 ± 0.02	0 ± 0	0.05 ± 0.05	0 ± 0	0.01 ± 0.01
(<i>E</i>)-β-Caryophyllene [§]	18.53 ± 5.32	76.12 ± 29.28*a	20.71 ± 2.59	25.13 ± 5.69b	27.02 ± 3.62	24.6 ± 4.35b
Aromadendrene [§]	0.55 ± 0.12A	0.98 ± 0.22	0.15 ± 0.04B	0.42 ± 0.17	0.24 ± 0.04B	0.33 ± 0.07
(<i>Z</i>)-β-Farnesene [§]	2.13 ± 0.73A	5.12 ± 3.06a	0.27 ± 0.07B	1 ± 0.8ab	0.16 ± 0.04B	0.32 ± 0.12b
Humulene [§]	3.37 ± 0.64	11.22 ± 3.79*a	2.71 ± 0.33	3.65 ± 0.95b	3.28 ± 0.54	3.65 ± 0.66b
(<i>Z</i>)-Muurolo-4(15)-5-diene	0.29 ± 0.11A	1.46 ± 0.44*	0.03 ± 0.01B	0.54 ± 0.23	0.02 ± 0.01B	0.85 ± 0.36*
(<i>Z,E</i>)-α-Farnesene	99.83 ± 28.7A	126.67 ± 42.73a	18.87 ± 5.7B	37.74 ± 28.42ab	10.35 ± 2.31B	14.62 ± 3.7b
Germacrene D	11.03 ± 5.66	63.87 ± 21.34	1.37 ± 0.32	17.42 ± 6.85	1.07 ± 0.31	17.8 ± 5.41*
α-Farnesene	4747.83 ± 1565.07A	8907.62 ± 3515.56a	788.56 ± 264.69B	1971.48 ± 1607.55ab	401.23 ± 100.14B	562.15 ± 142.3b
Eudesma-1,4(15),11-triene	7.23 ± 2.22A	10.85 ± 3.21a	0.98 ± 0.22B	2.09 ± 1.7ab	0.54 ± 0.21B	0.66 ± 0.2b
(<i>E</i>)-γ-Bisabolene	3.61 ± 0.78A	4.36 ± 0.82a	0.49 ± 0.19B	0.77 ± 0.62b	0.18 ± 0.06B	0.27 ± 0.09b
Caryophyllene oxide	0.47 ± 0.14	0.89 ± 0.28a	0.19 ± 0.02	0.13 ± 0.06b	0.22 ± 0.05	0.12 ± 0.03b
α-Patchoulene	5.18 ± 1.25A	5.29 ± 0.89a	0.86 ± 0.27B	1.08 ± 0.93ab	0.28 ± 0.1B	0.38 ± 0.1b

Total Sesquiterpenes	4901.41 ± 1594.65A	9219.71 ± 3571.28a	835.47 ± 269.16B	2063.05 ± 1647.32ab	444.83 ± 100.57B	627.22 ± 148.71b
Green leaf volatiles (GLVs)						
Hexanal	2.29 ± 0.59	3.03 ± 0.25	2.16 ± 0.73	3.93 ± 0.64	4.51 ± 1.48	5.2 ± 0.8
(Z)-3-Hexenyl acetate ^s	14.73 ± 4.32	24.92 ± 11.87	14.82 ± 5.69	40.26 ± 16.61	5.93 ± 1.55	18.3 ± 1.68*
Hexyl acetate	0.14 ± 0.05	2.47 ± 0.49*	0.17 ± 0.05	1.17 ± 0.27*	0.13 ± 0.03	2.12 ± 0.44*
(Z)-3-Hexenyl isovalerate	0.38 ± 0.1	3.79 ± 0.67*	0.27 ± 0.14	2.13 ± 0.51*	0.05 ± 0.02	1.63 ± 0.25*
Total GLVs	17.54 ± 4.89	34.22 ± 12.06	17.42 ± 6.54	47.5 ± 16.91	10.62 ± 2.75	27.25 ± 2.49*
Nitrogenous volatiles						
Isobutyronitrile	1.93 ± 0.18	38.41 ± 7.21*	1.55 ± 0.21	20.7 ± 1.92*	1.47 ± 0.29	31.1 ± 4.91*
2-Methyl Butanenitrile	1.45 ± 0.45A	66.63 ± 15.06*	0.99 ± 0.11A	35.92 ± 4.36*	0.43 ± 0.08B	57.43 ± 9.57*
3-Methyl Butanenitrile	2.14 ± 0.54	55.3 ± 17.9*	1.68 ± 0.18	39.76 ± 4.4*	1.4 ± 0.27	47.85 ± 9.22*
3,5-Dihydroxybenzamide	0.64 ± 0.08	1.45 ± 0.72	1.23 ± 0.39	1.41 ± 0.26	1.88 ± 0.52	1.3 ± 0.24
syn-2-Methylpropyl aldoxime	0.17 ± 0.14	32.64 ± 9.52*	0.17 ± 0.16	29.45 ± 3.25*	0.02 ± 0.02	32.23 ± 6.52*
2-Methylpropanal oxime	0.11 ± 0.09	11.83 ± 4.07*	0.05 ± 0.04	10.99 ± 1.36*	0.03 ± 0.01	12.46 ± 2.92*
syn-3-Methylbutyl aldoxime	0.7 ± 0.46AB	80.49 ± 26.1*	0.62 ± 0.18A	68.98 ± 5.62*	0.03 ± 0.03B	76.16 ± 16.67*
syn-2-Methylbutyl aldoxime	1.06 ± 0.55	139.25 ± 33.02*	0.15 ± 0.11	104.8 ± 12.88*	0.06 ± 0.06	134.3 ± 26.13*
anti-2-Methylbutyl aldoxime	0.07 ± 0.07	38.83 ± 9.59*	0.01 ± 0.01	32.24 ± 3.82*	0 ± 0	43.72 ± 8.09*
anti-3-Methylbutyl aldoxime	0.09 ± 0.07	19.73 ± 6.77*	0.03 ± 0.01	18.36 ± 1.53*	0.02 ± 0.01	23.46 ± 5.31*
1-Methyl-2-pyrrolidinone	1.39 ± 0.72	1.29 ± 0.77	1.49 ± 0.63	1.75 ± 0.62	1.1 ± 0.26	1.36 ± 0.16
Benzyl nitrile	2.4 ± 0.45A	154.19 ± 35.2*	1 ± 0.31AB	46.71 ± 8.63*	0.3 ± 0.13B	66.81 ± 18.08*
Benzothiazole	1.77 ± 0.31	1.68 ± 0.48	1.58 ± 0.57	1.99 ± 0.94	0.96 ± 0.14	1.04 ± 0.14
(Z)-4-Methylbenzaldehyde oxime	0.17 ± 0.1	4.2 ± 1.75*	0.06 ± 0.04	2.18 ± 0.24*	0.07 ± 0.05	2.4 ± 0.89*
(E)-4-Methylbenzaldehyde oxime	0.16 ± 0.08	3.94 ± 1.65*	0.05 ± 0.04	2.1 ± 0.27*	0.07 ± 0.04	2.36 ± 0.91*
Indole	3.65 ± 1.31	13.47 ± 3.31	0.93 ± 0.47	4.26 ± 0.91*	0.61 ± 0.24	7.64 ± 2.63*
(2-Nitroethyl)Benzene	0.55 ± 0.27	10.21 ± 3.68*	0.23 ± 0.09	4.06 ± 0.65*	0.1 ± 0.06	4.98 ± 1.66*
Total Nitrogenous volatiles	18.45 ± 5.15	673.53 ± 157.99*	11.82 ± 1.96	425.67 ± 44.75*	8.55 ± 0.95	546.59 ± 103.83*
Benzenoids						
Benzene	3.22 ± 0.79	2.68 ± 0.33	4.17 ± 1.39	4.76 ± 1.65	4.2 ± 0.52	3.77 ± 0.71
Toluene	4.8 ± 0.91	4.72 ± 0.7	18.64 ± 15.17	19.43 ± 14.61	6.78 ± 1.71	6.71 ± 1.62
m-Xylene	1.6 ± 0.33	1.22 ± 0.22	2.83 ± 1.79	3.01 ± 1.74	2.19 ± 0.71	2.07 ± 0.48
p-Xylene	3.7 ± 0.35	3.57 ± 0.45	7.06 ± 5.02	7.55 ± 4.93	3.53 ± 0.75	3.97 ± 1.04

o-Xylene	0.86 ± 0.16	0.78 ± 0.12	2.7 ± 2.14	2.9 ± 2.17	1.16 ± 0.28	1.47 ± 0.41
Styrene	1.38 ± 0.3	1.39 ± 0.16	16.34 ± 15.13	18.82 ± 14.52	7.41 ± 5.63	5.97 ± 2.84
Benzaldehyde	13.32 ± 2.19	16.39 ± 1.03	12.74 ± 1.68	18.62 ± 3.39	15.74 ± 2.56	18.87 ± 2.39
Mesitylene	0.51 ± 0.22	0.37 ± 0.18	2.35 ± 1.87	2.9 ± 2.39	0.66 ± 0.27	0.87 ± 0.31
Benzyl alcohol	4.84 ± 2.15	44.48 ± 7.2*	5.95 ± 1.58	23.56 ± 4.86*	3.83 ± 0.47	24.43 ± 5.01*
Salicylaldehyde	0.57 ± 0.19	141.98 ± 95.81*	0.31 ± 0.08	10.69 ± 5.13*	0.61 ± 0.13	30.4 ± 8.44*
Acetophenone	5.12 ± 1.07	6.46 ± 0.85	4.83 ± 0.75	6.03 ± 1	5.44 ± 0.78	6.63 ± 0.89
2-Phenylethanol	1.71 ± 0.43	91.17 ± 17.92*	1.29 ± 0.26	47.92 ± 8.45*	1.69 ± 0.25	52.98 ± 12.1*
Methyl salicylate ^s	265.85 ± 78.28A	531.7 ± 307.16a	25.47 ± 10.7B	27.71 ± 21.16b	4.58 ± 0.57C	3.49 ± 0.36b
Phenoxyethanol	1.9 ± 0.6	1.48 ± 0.68	1.68 ± 0.42	1.89 ± 0.33	1.97 ± 0.49	2 ± 0.29
Phenethyl acetate	0.07 ± 0.01	5.24 ± 1.27*	0.03 ± 0.02	2.34 ± 0.58*	0.03 ± 0.01	2.62 ± 0.5*
Phthalic anhydride	3.83 ± 0.42	4.24 ± 0.63	3.06 ± 0.23	3.2 ± 0.24	3.85 ± 0.6	4.28 ± 0.74
Eugenol	0.12 ± 0.05	2.18 ± 1.07*	0.05 ± 0.03	0.36 ± 0.15	0.07 ± 0.04	1.56 ± 0.52*
Total Benzenoids	313.38 ± 72.93	860.05 ± 319.92a	109.49 ± 44.5	201.69 ± 56.64b	63.76 ± 12.86	172.1 ± 12.77*b
Alcohols						
2-Butanol	5.71 ± 0.5A	16.53 ± 6.18a	1.79 ± 0.33B	3.9 ± 1.72ab	1.34 ± 0.14B	1.91 ± 0.24b
2-Methyl butanol	0.15 ± 0.1	17.58 ± 3.73*	0.05 ± 0.03	11.31 ± 2.01*	0.02 ± 0.01	15.12 ± 3.84*
2-Ethyl hexanol	2.35 ± 0.91	3.78 ± 0.55	2.59 ± 0.94	3.72 ± 0.91	3.8 ± 1.44	4.44 ± 0.59
1-Nonanol	1.87 ± 0.75	1.64 ± 1.07	2.02 ± 0.71	2.32 ± 0.59	1.75 ± 0.36	1.77 ± 0.18
1-Dodecanol	2.14 ± 0.46	1.79 ± 0.83	1.81 ± 0.21	1.93 ± 0.25	2.49 ± 0.38	2.32 ± 0.29
Total Alcohols	12.22 ± 2.09	41.32 ± 8.34*	8.26 ± 1.97	23.18 ± 4.44*	9.4 ± 1.96	25.56 ± 3.7*
Aldehydes						
Octanal	4.68 ± 1.36	10.19 ± 1.54	4.38 ± 0.89	6.76 ± 1.11	4.95 ± 0.95	7.74 ± 0.79*
Nonanal ^s	25.11 ± 7.65	19.81 ± 8.94	29.1 ± 5.79	32.95 ± 5.21	30.41 ± 4.08	30.72 ± 3.85
Decanal	26.94 ± 8.49	21.34 ± 11.36	22.5 ± 7.05	22.97 ± 3.28	21.53 ± 3.39	21.59 ± 3.15
Undecanal	3.6 ± 1.02	2.83 ± 1.47	3.05 ± 0.71	2.69 ± 0.5	3.42 ± 0.6	2.6 ± 0.45
Total Aldehydes	60.34 ± 18.41	54.17 ± 22.58	59.03 ± 13.53	65.37 ± 10	60.31 ± 8.87	62.65 ± 7.56
Alkanes						
2,2,4-Trimethyl pentane	0.12 ± 0.02	0.27 ± 0.02*	0.9 ± 0.86	1.32 ± 1.07	0.29 ± 0.11	0.37 ± 0.09
Methylcyclohexane	2.57 ± 0.75	2.71 ± 0.77	1.53 ± 0.24	2.04 ± 0.32	3.09 ± 0.71	3.01 ± 0.68
Octane	0.38 ± 0.12	0.33 ± 0.07	0.58 ± 0.18	0.51 ± 0.13	0.5 ± 0.08	0.49 ± 0.1
Tetradecane	1.08 ± 0.28	1.14 ± 0.35	0.94 ± 0.2	1.01 ± 0.37	0.76 ± 0.12	0.76 ± 0.07

2,7,10-Trimethyldodecane	2.52 ± 0.22A	2.77 ± 0.28a	1.21 ± 0.22B	1.42 ± 0.35b	1.5 ± 0.3AB	1.38 ± 0.21b
Total Alkanes	6.67 ± 1.19	7.22 ± 1.35	5.16 ± 0.97	6.3 ± 1.56	6.14 ± 1.1	6.01 ± 0.98
Alkenes						
2-Methyl-1,3-pentadiene	0.91 ± 0.1A	13.13 ± 1.27*a	0.17 ± 0.02B	3.81 ± 2.16*ab	0.09 ± 0.04B	1.53 ± 0.21*b
1-Octene	2.8 ± 0.57	2.97 ± 0.97	1.98 ± 0.21	2.42 ± 0.44	2.72 ± 0.75	2.87 ± 0.67
1-Nonene	3.62 ± 0.73	3.74 ± 1.63	2.78 ± 0.4	2.85 ± 0.39	4.29 ± 1.18	4.28 ± 1.15
Total Alkenes	7.33 ± 1.21	19.83 ± 3.48*	4.93 ± 0.56	9.08 ± 2.24	7.09 ± 1.93	8.68 ± 1.92
Ketones						
2-Methyl-4-pentanolide	0.15 ± 0.03	0.26 ± 0.08	0.28 ± 0.19	1.42 ± 1.05	3.12 ± 2.7	1.93 ± 1.12
2-Butanone	7.64 ± 1.03A	16.1 ± 4.62a	2.39 ± 0.44B	4.7 ± 1.53b	2.28 ± 0.54B	3.66 ± 0.46b
6-Methyl-5-hepten-2-one	19.61 ± 7.1	30.4 ± 11.71	5.19 ± 0.81	8.63 ± 4.54	5.66 ± 1.26	5.8 ± 1.14
2,4-Dimethyl-3-hexanone	0.99 ± 0.4	1.41 ± 0.36	1.35 ± 0.42	1.68 ± 0.76	0.89 ± 0.19	1.32 ± 0.19
(Z)-Geranylacetone	0.53 ± 0.12	0.65 ± 0.04	0.62 ± 0.11	0.8 ± 0.15	1.08 ± 0.27	1.29 ± 0.42
Total Ketones	28.92 ± 7.76	48.82 ± 15a	9.84 ± 1.48	17.22 ± 5.99ab	13.02 ± 4.05	14 ± 2.34b

§: Compounds verified with authentic standards; DMNT: 4,8-Dimethylnona-1,3,7-triene; TMTT: (3E,7E)-4,8,12-Trimethyl-1,3,7,11-tridecatetraene.