

Table S1. Volatile compounds released by differently infested cotton plants collected at the period from 17:00 PM to 21:00 PM. Volatile compounds collected from the headspace of control cotton plants (CK), plants infested with 1 miridae (1 bug), plants infested with 2 miridae (2 bugs), plants infested with 4 miridae (4 bugs), plants infested with 8 miridae (8 bugs). The values represent the mean percentages \pm SE of the peak area relative to the peak area of the internal standard. Letters following each value in the same row indicate significant differences between rice plant treatments based on one-way ANOVA followed Tukey HSD test ($P < 0.05$).

Peak no.	Volatile	CK	1 bug	2 bugs	4 bugs	8bugs	p
1	ethylbenzene ¹	30.56 \pm 3.24b	32.89 \pm 6.19b	29.45 \pm 6.68b	29.57 \pm 3.12b	63.95 \pm 6.20a	P<0.05
2	1,3-xylene ¹	16.49 \pm 8.34ab	24.26 \pm 7.73a	22.60 \pm 3.22a	9.35 \pm 0.91b	14.34 \pm 0.85ab	P<0.05
3	n-nonane ¹	67.56 \pm 9.66c	69.36 \pm 0.92bc	74.98 \pm 1.96bc	78.96 \pm 1.20b	102.7 \pm 5.11a	P<0.05
4	α -pinene ²	3.27 \pm 1.36a	4.87 \pm 1.41a	4.00 \pm 0.74a	3.82 \pm 0.38a	4.60 \pm 0.26a	P=0.194
5	benzaldehyde ²	14.45 \pm 4.71b	10.66 \pm 1.93b	31.38 \pm 5.01a	28.95 \pm 3.10a	13.15 \pm 1.98b	P<0.05
6	(<i>E</i>)-2-hexenal ²	15.88 \pm 1.66c	15.32 \pm 0.56c	27.96 \pm 1.51a	21.76 \pm 2.26b	6.73 \pm 1.15d	P<0.05
7	β -myrcene ²	-	-	8.32 \pm 3.03	7.18 \pm 1.72	1.13 \pm 0.58	
8	6-methyl-5-hepten-2-one ²	-	19.87 \pm 5.53	14.86 \pm 8.62	11.05 \pm 1.78	12.65 \pm 1.29	
9	decane ¹	57.76 \pm 9.72a	54.45 \pm 4.01a	65.55 \pm 3.79a	62.19 \pm 2.68a	63.18 \pm 11.98a	P=0.268
10	octanal ²	23.98 \pm 3.39b	34.16 \pm 17.79b	55.04 \pm 5.40a	65.25 \pm 5.57a	24.74 \pm 5.34b	P<0.05
11	terpinene ¹	-	0.85 \pm 0.30	2.55 \pm 0.98	2.36 \pm 0.57	3.52 \pm 1.12	
12	limonene ²	-	2.02 \pm 0.95	4.59 \pm 0.70	3.76 \pm 0.31	2.24 \pm 0.90	
13	(<i>Z</i>)-3-hexen-1-yl acetate ²	11.08 \pm 3.40b	9.24 \pm 2.07b	44.02 \pm 24.24a	33.56 \pm 2.16a	10.96 \pm 1.73b	P<0.05
14	(<i>E</i>)- β -ocimene ²	7.99 \pm 2.06c	16.62 \pm 5.81c	13.16 \pm 6.55c	78.08 \pm 18.30a	50.64 \pm 7.03b	P<0.05
15	acetophenone ²	12.32 \pm 4.62a	13.32 \pm 0.55a	10.36 \pm 0.36a	11.46 \pm 1.03a	8.5 \pm 4.58a	P=0.231
16	linalool oxide ²	-	11.40 \pm 2.97	12.99 \pm 2.66	12.21 \pm 0.95	10.95 \pm 5.18	
17	linalool ¹	19.91 \pm 0.75a	17.11 \pm 0.81a	20.57 \pm 2.05a	19.60 \pm 2.31a	17.72 \pm 1.53a	P=0.236
18	nonanal ¹	91.08 \pm 20.38b	87.85 \pm 24.74b	207.69 \pm 28.14a	209.92 \pm 11.89a	79.45 \pm 13.81b	P<0.05
19	DMNT ^{2,a}	18.59 \pm 5.97c	24.41 \pm 4.89bc	21.42 \pm 5.23c	40.28 \pm 2.00a	30.63 \pm 3.30b	P<0.05
20	hexenyl butyrate ²	-	6.75 \pm 1.79	3.52 \pm 1.29	3.82 \pm 1.78	3.66 \pm 0.66	
21	(<i>Z</i>)-4-hexenyl butylate ³	-	11.29 \pm 1.20	79.22 \pm 11.14	72.76 \pm 9.38	12.34 \pm 3.02	
22	dodecane ¹	355.28 \pm 75.04d	408.65 \pm 82.49cd	542.55 \pm 130.75bc	623.25 \pm 26.62b	763.16 \pm 82.99a	P<0.05
23	decanal ¹	108.14 \pm 29.48b	60.55 \pm 32.69bc	219.93 \pm 41.90a	235.25 \pm 43.93a	38.30 \pm 14.75c	P<0.05
24	(<i>2E</i>)-2-hexen-1-yl propanoate ³	7.01 \pm 2.09b	13.60 \pm 3.24a	11.99 \pm 1.18ab	11.88 \pm 1.22ab	15.61 \pm 4.08a	P<0.05

25	tridecane ¹	14.97±4.43a	15.44±0.66a	20.38±2.43a	18.30±1.70a	16.28±2.34a	P=0.056
26	unknown	-	-	-	10.70±1.18	10.29±4.25	
27	(<i>E</i>)-β-caryophyllene ²	26.64±9.32bc	20.95±0.21c	36.25±4.73a	30.73±2.10ab	1.25±0.39d	P<0.05
28	(<i>E</i>)-α-caryophyllene ²	15.78±5.09c	9.37±5.06c	40.75±8.91a	29.78±1.04b	8.65±3.17c	P<0.05
29	α-farnesene ²	-	-	20.59±3.91	19.35±0.99	4.15±1.12	
30	(+)-δ-cadinene ²	-	-	192.24±49.07	174.39±40.12	6.13±2.90	
31	nerolidol ²	-	1.24±1.09	12.17±2.20	10.87±1.22	2.95±2.56	

Table S2. Volatile compounds released by differently infested cotton plants collected at the period from 10:00 PM to 14:00 PM. Volatile compounds collected from the headspace of control cotton plants (CK), plants infested with 1 miridae (1 bug), plants infested with 2 miridae (2 bugs), plants infested with 4 miridae (4 bugs), plants infested with 8 miridae (8 bugs). The values represent the mean percentages ± SE of the peak area relative to the peak area of the internal standard. Letters following each value in the same row indicate significant differences between rice plant treatments based on one-way ANOVA followed Tukey HSD test (P<0.05).

Peak no.	Volatile	CK	1 bug	2 bugs	4 bugs	8bugs	p
1	ethylbenzene ¹	14.89±2.33c	18.73±3.49bc	15.97±4.00c	24.11±2.87b	31.24±2.21a	P<0.05
2	1,3-xylene ¹	7.41±2.49b	7.09±0.68b	7.06±1.75b	10.06±1.55b	15.25±5.05a	P<0.05
3	n-nonane ¹	67.72±3.55d	72.25±2.22cd	76.41±3.64c	87.14±6.02b	94.95±4.43a	P<0.05
4	α-pinene ²	3.38±1.10a	4.15±0.70a	3.80±0.66a	5.74±1.39a	5.38±2.56a	P=0.151
5	benzaldehyde ²	16.26±2.39b	19.73±4.54b	16.92±1.64b	37.56±4.39a	17.63±7.42b	P<0.05
6	(<i>E</i>)-2-hexenal ²	16.36±1.14b	8.36±3.22c	17.68±4.49b	24.79±2.38a	6.43±2.49c	P<0.05
7	β-myrcene ²	-	4.94±1.17	4.83±1.32	6.86±1.05	2.97±0.72	
8	6-methyl-5-hepten-2-one ²	18.07±7.74a	23.06±4.75a	16.20±8.21a	26.75±7.24a	25.00±2.95a	P=0.157
9	decane ¹	61.47±6.00b	55.57±10.92b	54.20±3.74b	67.59±4.72b	83.04±5.81a	P<0.05
10	octanal ²	42.95±11.76b	51.20±19.61b	57.19±19.41b	97.05±4.91a	41.28±22.80b	P<0.05
11	terpinene ¹	-	-	2.74±0.64	4.04±0.28	1.74±0.70	
12	limonene ²	-	0.93±0.55	3.46±0.83	4.97±0.45	2.18±0.48	
13	(<i>Z</i>)-3-hexen-1-yl acetate ²	29.68±13.39bc	15.77±3.89c	44.12±10.80b	87.86±3.18a	100.36±7.72a	P<0.05

14	(<i>E</i>)- β -ocimene ²	11.80±2.90b	30.51±17.83b	14.95±7.23b	93.47±10.52a	124.38±48.90a	P<0.05
15	acetophenone ²	11.15±1.52a	7.94±1.25a	11.31±0.87a	11.07±0.65a	9.47±2.65a	P=0.052
16	linalool oxide ²	-	9.63±1.47	12.10±3.16	15.31±1.66	8.68±3.02	
17	linalool ¹	21.73±2.25ab	16.45±1.41b	19.27±3.16ab	22.84±4.83a	6.10±2.25c	P<0.05
18	nonanal ¹	157.81±30.19bc	100.91±27.15cd	194.23±48.92b	320.02±23.65a	74.05±36.42d	P<0.05
19	DMNT ^{2,a}	29.17±10.29b	29.65±4.47b	18.43±4.29c	58.14±2.66a	45.81±17.75ab	P<0.05
20	hexenyl butyrate ²	-	2.66±0.86	3.61±1.57	5.75±1.47	6.50±4.46	
21	(4 <i>Z</i>)-4-hexenyl butylate ³	67.90±16.74b	65.76±10.49b	79.80±25.01b	118.52±24.55a	21.10±11.00c	P<0.05
22	dodecane ¹	530.14±117.92a	471.67±108.98a	602.80±151.50a	427.29±15.75a	552.72±63.74a	P=0.185
23	decanal ¹	232.76±67.27b	250.05±8.3b	249.40±99.78b	386.49±94.04a	32.10±18.28c	
24	(2 <i>E</i>)-2-hexen-1-yl propanoate ³	8.16±1.84b	9.57±2.23b	14.11±5.00ab	16.74±2.54a	9.35±2.83b	P<0.05
25	tridecane ¹	11.38±3.44b	13.22±3.12b	13.16±1.76b	13.27±1.13b	36.56±11.34a	P<0.05
26	unknown	-	-	3.31±0.94	6.94±2.00	9.82±2.83	
27	(<i>E</i>)- β -caryophyllene ²	19.84±7.60c	23.38±2.15bc	31.05±5.74b	43.00±1.07a	1.22±0.74d	P<0.05
28	(<i>E</i>)- α -caryophyllene ²	-	9.40±5.64	33.61±5.53	44.66±1.96	6.70±2.65	
29	α -farnesene ²	-	-	14.82±4.32	26.98±2.02	3.68±1.89	
30	(+)- δ -cadinene ²	-	-	175.75±37.18	242.55±15.78	20.58±6.78	
31	nerolidol ²	-	4.49±0.64	13.97±1.26	14.82±4.19	37.06±13.32	

"1" comparing their retention times and mass spectra to authentic standards;

"2" comparing their mass spectra and retention indices calculated relatively to the C8-C20 n-alkanes on the DB-5 column;

"3" comparing their mass spectra in the mass spectra library NIST 2014;

"a" DMNT = (3*E*)-4,8-dimethyl-1,3,7-nonatriene;

"-" indicates that the concentration of the volatile was below the detection level;

"unknown" were the compounds that were not confirmed with authentic standards.