

Supplementary Table 1 ANOVA for morphological, yield and oil related traits in lemongrass

Trait	Treatment (MS) Factor A df=11	Treatment (MS) Factor B df=2	Interaction (A × B) df=22	Error (MS) df= 70
PH	180.213	159.809	181.045	8.087
LL	102.139	31.468	43.601	4.092
LW	0.230	0.233	0.176	0.001
CC	346.597	171.100	107.659	6.082
NSL	80.404	23.553	28.396	0.694
HY	181.894	411.466	218.214	15.710
OY	4,550.750	6,010.253	3,833.361	27.018
OC	0.109	0.101	0.090	0.001
GL	3,658.465	4,524.274	515.562	0.919
CL	4,242.130	8,238.275	931.769	1.683

PH, Plant height; LL, Leaf length; LW, Leaf width; CC, Circumference; NSL, Number of slips/plant; HY, Herbage yield; OY, Essential oil yield; OC, Oil content; GL, Geraniol; CL, Citral.

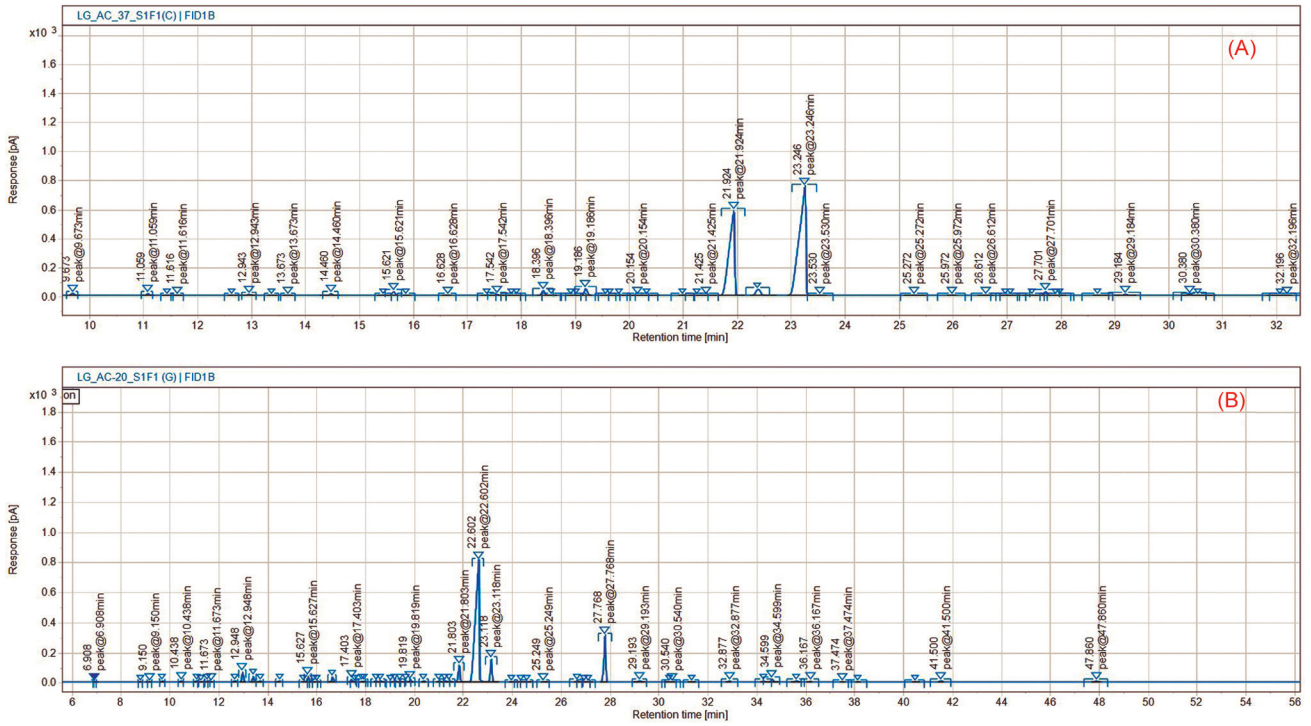


Supplementary Table 2 Yield and oil composition traits of lemongrass accessions under different fertility levels

Acc. No.	Herb yield (q/ha)			Oil yield (kg/ha)			Oil content (%)			Geraniol (%)			Citral (%)		
	F ₀	F ₁	F ₂	F ₀	F ₁	F ₂	F ₀	F ₁	F ₂	F ₀	F ₁	F ₂	F ₀	F ₁	F ₂
Check	155.6	164.9	150.2	124.4	197.8	191.0	0.8	1.2	1.2	8.5	9.9	7.4	76.6	71.8	76.4
AC-10	158.0	162.2	154.3	189.6	129.7	155.2	1.2	0.8	1.0	54.1	60.2	55.5	21.5	17.0	18.0
AC-16	175.4	180.9	171.6	210.4	253.2	170.6	1.2	1.4	1.0	20.8	20.9	20.0	61.4	60.1	62.5
AC-18	158.9	165.5	150.2	160.4	198.6	144.1	1.0	1.2	0.9	52.0	51.4	51.5	25.2	27.4	22.2
AC-20	170.2	175.0	169.5	204.2	245.0	174.6	1.2	1.4	1.0	61.1	59.7	64.9	15.6	17.5	12.2
AC-26	160.4	165.5	155.2	192.4	160.2	158.1	1.2	1.0	1.0	23.3	22.3	22.9	64.3	84.5	84.9
AC-29	158.7	162.8	145.5	130.9	190.4	157.2	0.9	1.2	1.0	16.5	1.9	3.1	81.3	81.9	85.2
AC-37	172.4	178.9	161.6	198.4	250.4	193.9	1.2	1.4	1.2	4.4	3.0	3.6	79.2	82.3	82.6
AC-51	170.4	182.9	165.6	238.5	256.0	198.7	1.4	1.4	1.2	6.5	5.9	3.2	76.3	76.9	83.2
AC-65	169.2	176.2	163.5	198.2	246.6	196.2	1.2	1.4	1.2	61.7	68.5	67.3	15.3	13.0	14.7
AC-71	169.1	178.9	162.5	236.7	250.4	202.2	1.4	1.4	1.2	63.2	59.1	61.8	14.9	17.8	16.7
AC-72	160.6	165.7	159.6	186.7	198.8	143.6	1.2	1.2	0.9	57.5	51.6	57.2	18.2	28.1	22.6
Mean	162.48	170.53	162.63	189.23	214.76	173.78	1.16	1.25	1.07	36.80	33.70	34.03	44.82	49.03	50.28
CD (P=0.05)	8.002	7.599	4.626	10.756	10.393	6.270	0.054	0.066	0.056	1.990	1.435	1.470	1.986	2.258	2.846

F₀, Control fertilizer dose of 120:80:60 NPK; F₁, 150% of the control dose; F₂, 75% of the control dose.





Supplementary Fig. 1 Chromatographic profile of Citral (A) and Genioliol (B) type lemongrass accession.

