Table S1. Volatile flavor compounds during the fermentation process of Sichuan pickle in COJ, IOJ, CCJ, as well as fresh vegetable juice.

No.	Compounds		Relative abundance[1, 2]														
			Fresh	Completely opened jar					Intermittently opened jar					Completely closed jar			
			vegetable	8d	16d	32d	48d	64d	8d	16d	32d	48d	64d	8d	16d	32d	48d	64d
1	Alcohols	Methanol	nd	3.49	0.20	0.55	0.72	0.89	7.64	12.6	nd	2.53	0.47	2.45	2.38	nd	1.19	nd
2		methanethiol	nd	nd	6.49	nd	0.82	2.54	22.63	nd	nd	nd	nd	nd	nd	nd	nd	nd
3		Etanol	nd	61.46	22.55	nd	1.79	nd	17.88	25.1	nd	49.95	nd	17.68	29.3	nd	9.54	nd
4		hydroxytrimethylsilane	nd	nd	1.98	nd	2.23	nd	17.96	nd	8.84	nd	nd	44.85	nd	9.85	1.54	2.81
5		4-ALLYL-1,6-HEPTADIEN-4-OL	nd	nd	nd	nd	nd	nd	0.59	nd	nd	nd	nd	nd	nd	nd	nd	nd
6		2-Methyl-1-butanol	nd	nd	nd	nd	nd	nd	0.70	nd	nd	nd	nd	nd	nd	nd	nd	nd
7		3-METHYL-2-PENTANOL	nd	nd	nd	nd	nd	nd	0.73	nd	nd	nd	nd	nd	nd	nd	nd	nd
8		4-(methylthio) butanol	nd	nd	nd	nd	nd	nd	nd	0.25	nd	nd	nd	nd	nd	nd	nd	nd
9		(2S,3S)-(-)-3-PROPYLOXIRANEMETHANOL	nd	nd	nd	nd	nd	nd	nd	0.11	nd	nd	nd	nd	nd	nd	nd	nd
10		4-METHYL-4-PENTEN-2-OL	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.26	nd	nd	nd
11		1-Heptanol	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.84	0.22	1.15	nd	nd	nd
12		1,2-Dodecanediol	nd	nd	nd	nd	nd	0.24	nd	nd	nd	nd	nd	1.34	nd	nd	nd	nd
13		3-Chloro-2,2-dimethyl-1-propanol	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.45	nd	nd	nd	nd	nd	nd
14		3,4-DIMETHYL-2-HEXANOL	nd	nd	nd	nd	nd	0.47	nd	nd	nd	nd	nd	nd	nd	nd	1.54	nd
15		Cyclobutanol	nd	nd	nd	nd	0.87	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
16		2,4-Dimethyl-3-pentanol	nd	nd	nd	nd	0.65	nd	nd	nd	nd	0.94	nd	nd	nd	nd	0.93	nd
17		4-METHYL-1-HEXANOL	nd	nd	nd	nd	0.54	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
18		4-METHOXY-4-METHYL-2-PENTANOL	nd	nd	nd	1.16	0.88	nd	nd	nd	nd	nd	nd	nd	nd	1.99	0.51	nd
19		1-HEPTEN-4-OL	nd	nd	nd	0.15	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
20		2-PROPYL-1-PENTANOL	nd	nd	nd	2.40	1.65	nd	nd	nd	nd	2.87	nd	nd	nd	nd	2.97	0.62
21		6-METHYL-2-HEPTANOL	nd	nd	nd	nd	2.59	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
22		Tetrahydrofurfuryl alcohol	nd	nd	nd	0.37	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.40	0.29
23		2-METHYL-5-HEXEN-3-OL	nd	nd	nd	0.28	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
24		2-HYDROXYMETHYL-1,3-DIOXOLANE	nd	nd	nd	nd	nd	nd	nd	nd	0.42	nd	nd	nd	nd	nd	nd	nd

25		3-BUTEN-2-OL	nd	nd	nd	nd	0.76	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
26		2-Ethylhexanol	nd	nd	nd	nd	nd	0.57	nd	nd	nd	nd	nd	nd	nd	4.79	nd	nd
27		2-Fluoroethanol	nd	nd	nd	0.77	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
28		2,6-Dimethyl-7-octen-2-ol	15.77	nd	nd	nd	nd	1.88	nd	nd	nd	nd	3.52	nd	nd	nd	nd	0.96
29		ISOOCTYL ALCOHOL	nd	nd	nd	nd	nd	0.38	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.14
30		2-TERT-BUTYLCYCLOHEXANOL	6.21	nd	nd	nd	nd	2.28	nd	nd	nd	nd	3.15	nd	nd	nd	nd	1.18
31		4-Methyl-1-pentanol	nd	nd	nd	nd	nd	0.57	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
32		3,4-DIMETHYL-1-PENTANOL	nd	nd	nd	nd	nd	0.39	nd	nd	nd	nd	0.52	nd	nd	nd	nd	0.62
33		DIHYDROTERPINEOL	nd	nd	nd	nd	nd	0.24	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
34		3,7-DIMETHYL-1-OCTANOL	nd	nd	nd	nd	nd	0.43	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
35		1-PENTADECANOL	nd	nd	nd	nd	nd	0.84	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
36		(S)-(+)-6-METHYL-1-OCTANOL	nd	nd	nd	nd	nd	0.39	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
37		2-methyl-2-octanol	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.17	nd	nd	nd	nd	nd
38		dimethylsilanediol	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	12.6
39		3-CYCLOHEXYL-1-PROPANOL	nd	nd	nd	nd	nd	0.44	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
40		2-CYCLOHEXYL-1-PROPANOL	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.38
41		4-METHYL-3-HEPTANOL	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.24
42		Tetrahydrolinalool	27.40	nd	nd	nd	nd	5.96	nd	nd	nd	nd	7.74	nd	nd	nd	nd	3.29
43		Octane-1,8-diol	nd	nd	nd	nd	nd	1.68	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
44		2-Heptanol	nd	nd	nd	nd	nd	1.47	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
45		1-OCTEN-3-OL	nd	nd	nd	nd	nd	13.12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
46		5-Methyl-2-isopropyl-1-hexanol.	nd	nd	nd	nd	nd	0.85	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
47		(2R,3S)-2,3-Hexanediol	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.20	nd
48		(S)-(+)-5-METHYL-1-HEPTANOL	nd	nd	nd	nd	nd	0.39	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
49		5-(3-DIMETHYLAMINOPROPYL)-10,11-	9.55	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
50		5-Norbornene-2-methanol	0.47	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
51		5-HEXYN-3-OL	0.19	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
52		2-Undecen-4-ol	0.65	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
53		Cyclopentanemethanol	0.47	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

54		2-Ethylhexanol	nd	nd	nd	2.27	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
55	Ketones	2,3-HEPTANEDIONE	0.68	0.73	0.46	1.31	0.42	nd	nd	0.65	0.47	0.63	0.41	0.36	1.01	0.35	nd	nd
56		3-Hexanone	0.52	0.73	0.35	0.22	0.46	0.06	0.12	0.43	0.47	1.16	0.12	0.19	0.29	0.20	0.39\	0.44
57		2-METHYL-4-HEPTANONE	0.22	0.38	0.51	0.47	0.85	0.39	0.46	0.44	0.36	1.04	nd	nd	0.36	nd	nd	nd
58		3-METHYL-4-HEPTANONE	nd	0.31	nd	0.87	0.46	0.29	0.15	0.20	nd	nd	nd	0.12	nd	0.28	nd	nd
59		Pinacolone	nd	0.31	nd	nd	nd	nd	nd	0.19	0.09	nd	nd	nd	nd	nd	nd	nd
60		2,3-Pentanedione	nd	0.18	nd	0.17	nd	nd	0.07	nd	nd	0.20	nd	nd	nd	nd	nd	nd
61		2-oxobutyl acetate	nd	nd	nd	nd	0.12	nd	0.05	0.11	nd	0.17	nd	nd	nd	0.24	nd	nd
62		2,2,4-TRIMETHYL-3-PENTANONE	nd	nd	nd	nd	nd	nd	0.35	nd	0.04	0.46\	nd	0.21	nd	nd	nd	nd
63		2-Propanone, 1-mercapto-	nd	nd	nd	nd	nd	nd	nd	nd	nd	42.78	66.28	1.48	5.94	8.80	25.8	20.8
64		2,2-DIMETHYL-3-HEXANONE	nd	nd	0.33	0.31	0.30	nd	nd	0.50	0.89	0.79	nd	nd	nd	nd	nd	nd
65		2-METHYL-3-PENTANONE	nd	nd	0.20	nd	nd	nd	nd	nd	nd	0.17	nd	nd	nd	0.07	nd	nd
66		Methyl vinyl ketone	nd	nd	0.47	0.23	nd	nd	nd	nd	1.56	nd	nd	nd	nd	nd	nd	nd
67		2-Heptanone	nd	nd	1.55	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
68		5-METHYL-3-HEXEN-2-ONE	nd	nd	0.32	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
69		1,1,1-Trifluoroacetone	nd	nd	0.08	nd	0.06	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
70		2,4-DIMETHYL-3-HEPTANONE	nd	nd	nd	nd	nd	nd	nd	0.14	nd	nd	nd	nd	nd	nd	nd	nd
71		2,5-DIMETHYL-3-HEXANONE	nd	nd	nd	0.91	nd	nd	nd	nd	1.23	nd	nd	nd	0.36	0.14	nd	nd
72		3,4-Hexanedione	nd	nd	nd	nd	nd	nd	nd	nd	6.17	nd	0.18	nd	nd	nd	nd	nd
73		2'-FLUORO-6'-	nd	nd	nd	nd	nd	nd	nd	nd	0.03	nd	nd	nd	nd	nd	nd	12.2
74		3-Pentanone	nd	nd	nd	nd	nd	0.14	nd	nd	nd	0.15	0.24	nd	nd	0.08	0.14	0.13
75		2-Nonanone	nd	nd	nd	nd	3.92	6.46	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
76		4-Heptanone	nd	nd	nd	nd	nd	17.13	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
77		3-METHYL-1-PHENYL-2-BUTANONE	nd	nd	nd	nd	nd	0.29	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
78		2-Octanone	nd	nd	nd	nd	nd	3.83	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
79		3-METHYL-2-PENTANONE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.94	nd	nd	nd	nd	nd
80		Tetrahydro-4,4,6-trimethyl-2H-pyran-2-one	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.04	nd	nd	nd	nd	nd	nd
81		1-Phenyl-3-[2-(phenylmethoxy)phenyl]-1-propanone	nd	nd	nd	nd	0.42	0.84	nd	0.54	nd	0.87	nd	nd	nd	nd	nd	nd
82		2-Chloro-1-(4-ethylphenyl)-2-methyl-1-propanone	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.77	nd	nd	0.17

83		2,4-Dimethyl-1-penten-3-one	nd	nd	nd	nd	nd	0.23	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
84		2,4-DIMETHYL-3-HEXANONE	nd	nd	nd	nd	0.47	nd	nd	nd	0.31	nd	nd	nd	nd	nd	nd	nd
85		3,4-DIMETHYL-2-HEXANONE	nd	nd	nd	nd	3.40	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
86		3,4-Epoxy-2-hexanone	nd	nd	nd	nd	nd	nd	nd	0.11	nd	nd	nd	nd	nd	0.11	nd	nd
87		3,5-Heptanedione, 4-ethyl-2,2,6,6-tetramethyl-	nd	nd	nd	nd	0.64	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
88		9-Phenyl-7-oxabicyclo[4.2.1]nona-2,4-dien-8-one	nd	nd	nd	nd	0.24	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
89		2-Butanone,1-(acetyloxy)-	nd	nd	nd	nd	nd	nd	0.07	nd	nd	nd	nd	nd	nd	nd	nd	nd
90		Hexafluoroacetone	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.28
91	Esters	ALLYL ACRYLATE	1.01	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
92		VINYL ACRYLATE	0.54	nd	0.17	nd	nd	0.49	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
93		1H,1H-PERFLUOROOCTYL ACRYLATE	0.11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
94		CIS-3-HEXENYL PROPIONATE	0.56	nd	nd	nd	nd	0.34	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
95		Dimethylbenzylcarbinyl acetate	1.11	nd	nd	nd	nd	2.14	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
96		METHYL ACETOPYRUVATE	0.68	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
97		FEMA 2860	nd	0.46	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
98		VINYL PROPIONATE	nd	0.13	nd	0.38	0.11	nd	0.11	nd	nd	nd	0.07	0.03	nd	nd	0.18	nd
99		methyl 5-oxotetrahydrofuran-2-carboxylate	nd	0.13	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	2.81
100		TETRAHYDROFURFURYL BUTYRATE	nd	1.66	0.25	nd	nd	nd	0.51	0.57	0.34	0.57	nd	0.04	0.99	1.04	0.63	nd
101		Diethyl 2,2-difluoromalonate	nd	0.04	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
102		Dibutyl oxalate	nd	0.26	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.28	0.40	nd	nd
103		Methyl dimethoxyacetate	nd	0.18	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
104		1,3-DINITROGLYCERIN	nd	nd	nd	nd	nd	nd	1.04	nd	nd	nd	nd	nd	nd	nd	nd	nd
105		Butyl butyryllactate	nd	nd	nd	nd	0.13	nd	0.03	nd	nd	nd	nd	nd	nd	0.12	nd	nd
106		Trimethoxymethane	nd	nd	nd	nd	nd	nd	0.17	nd	0.50	0.34	0.55	nd	nd	nd	nd	nd
107		Methyl formate	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.47	nd	nd	nd	nd
108		Ethyl carbazate	nd	nd	nd	nd	nd	nd	nd	1.08	nd	nd	nd	0.33	nd	nd	nd	0.04
109		2-IODOOCTANE	nd	nd	0.13	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.11	nd
110		Ethyl 2-hydroxyisobutyrate	nd	nd	0.14	0.09	0.21	nd	nd	nd	0.09	nd	nd	nd	nd	nd	nd	nd
111		CIS-3-HEXENYL PROPIONATE	nd	nd	0.79	0.35	nd	nd	nd	nd	nd	nd	0.91	nd	nd	nd	nd	0.36

112		Methyl DL-mandelate		nd	nd	0.14	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
113		Ethyl pyruvate		nd	nd	nd	nd	nd	nd	nd	0.10	nd	nd	nd	nd	nd	nd	nd	nd
114		cis-3-Hexenyl 2-methylbutanoate		nd	nd	nd	nd	nd	nd	nd	1.06	0.89	nd	nd	nd	nd	0.83	nd	nd
115		HEXANES		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.45	nd	nd	nd
116		PENTAFLUOROBENZYL	P-	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.49	nd	nd	nd
117		2-oxetanone		nd	nd	nd	0.02	nd	0.05	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
118		Permethrin		nd	nd	nd	0.40	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
119		Propylene carbonate		nd	nd	nd	0.04	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
120		LINALYL FORMATE		nd	nd	nd	nd	nd	nd	nd	nd	2.51	1.10	nd	nd	nd	0.99	nd	nd
121		Ethylene glycol diacetate		nd	nd	nd	nd	nd	nd	nd	nd	0.15	nd	nd	nd	nd	nd	nd	nd	nd
122		ISOPROPYL PROPIONATE		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.28	nd	nd
123		TETRAHYDROFURFURYL ACETATE		nd	nd	nd	nd	0.08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
124		Ethyl acetate		nd	nd	nd	nd	nd	nd	nd	nd	nd	16.92	716.2	nd	nd	nd	nd	nd	nd
125		Ethyl isobutyrate		nd	nd	nd	nd	nd	nd	nd	nd	nd	49.50	31.43	nd	nd	nd	nd	nd	nd
126		Methyl isovalerate		nd	nd	nd	nd	nd	nd	nd	nd	nd	9.31	6.79	nd	nd	nd	nd	nd	nd
127		Ethyl butyrate		nd	nd	nd	nd	nd	nd	nd	nd	nd	5.52	4.08	nd	nd	nd	nd	nd	nd
128		Ethyl 2-methylbutyrate		nd	nd	nd	nd	nd	nd	nd	nd	nd	7.60	5.28	nd	nd	nd	nd	nd	nd
129		Ethyl isovalerate		nd	nd	nd	nd	nd	nd	nd	nd	nd	17.50	15.86	nd	nd	nd	nd	nd	nd
130		Isoamyl acetate		nd	nd	nd	nd	nd	nd	nd	nd	nd	3.25	10.95	nd	nd	nd	nd	nd	nd
131		Isobutyl isobutyrate		nd	nd	nd	nd	nd	nd	nd	nd	nd	0.37	nd	nd	nd	nd	nd	nd	nd
132		Ethyl 3-methylvalerate		nd	nd	nd	nd	nd	nd	nd	nd	nd	0.59	nd	nd	nd	nd	nd	nd	nd
133		Tetramethoxymethane		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.05	nd	nd
134		Diethyl carbonate		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.30	nd	nd
135		4-tert-Butylcyclohexyl acetate		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.46	nd	nd
136		PROPYL FORMATE		nd	nd	nd	nd	nd	0.02	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
137		Ethyl caprylate		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	2.75	nd	nd	nd	nd	nd	nd
138		Ethyl L(-)-lactate		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.12	nd	nd	nd	nd	nd	nd
139		DIALLYL CARBONATE		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.20	nd	nd	nd	nd	nd	nd
140		Tripropionin		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.17	nd	nd	nd	nd	nd	nd

141		Phenethyl butyrate	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.69
142		Phenethyl phenylacetate	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.07
143		Arsenous acid tris(trimethylsilyl) ester	nd	nd	nd	nd	nd	nd	0.62	nd	nd	nd	nd	nd	nd	0.35	nd	nd
144		Cyclopentanecarboxylic acid vinyl ester	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.76	nd	nd	nd	nd	nd
145		ethyl (2S)-pyrrolidine-2-carboxylate	nd	nd	nd	nd	nd	nd	nd	nd	0.33	nd	nd	nd	nd	nd	nd	nd
146		glycerol triisobutyrate	nd	nd	nd	nd	nd	nd	0.04	nd	nd	nd	nd	nd	nd	nd	nd	nd
147		p-(2-Propoxyethoxy)benzoic acid p-cyanophenyl ester	nd	nd	nd	nd	0.32	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.27	nd
148		tert-butyl butanoate	nd	0.33	nd	0.32	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.42	nd	nd
149		1,2-dimethylpropyl 2-methylbutyrate	nd	nd	nd	nd	nd	nd	nd	nd	0.71	0.69	nd	nd	nd	0.35	nd	nd
150		2-aminobutyric acid methyl ester	nd	nd	nd	nd	nd	0.03	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
151		2-Hydroxybutanoic acid methyl ester	nd	nd	nd	nd	nd	nd	0.04	nd	nd	nd	nd	nd	nd	nd	nd	nd
152		2,6-Bis(trimethylsilyloxy)benzoic acid trimethylsilyl	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.07	nd	nd	nd	nd
153		3-Butenoic acid, 2,4-dinitrophenyl ester	nd	nd	nd	nd	nd	nd	nd	0.09	nd	nd	nd	nd	nd	nd	nd	nd
154		4-ETHYLBENZOIC ACID ETHYL ESTER	nd	nd	16.07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
155		methyl nitrate	nd	nd	nd	0.01	nd	nd	0.06	0.05	nd	nd	nd	nd	1.16	nd	nd	nd
156		(4-tert-Butylphenoxy)methanol acetate	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.32	nd	nd	nd	nd	nd	nd
157		ETHYL MANDELATE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.52
158	Hydrazines	Carbohydrazide	0.15	nd	0.09	nd	nd	1.04	1.56	0.47	0.89	nd	4.59	0.14	nd	2.02	nd	0.69
159		Acethydrazide	nd	0.04	0.06	nd	0.19	0.17	0.04	0.31	3.09	nd	nd	nd	0.93	3.64	0.08	18.3
160		Hydroxyacetic Acid Hydrazide	nd	0.10	0.14	nd	nd	nd	0.07	nd	0.08	0.30	nd	0.13	nd	1.03	nd	nd
161		4-Hydroxybenzhydrazide	nd	0.18	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
162		Diacetyl hydrazine	nd	nd	nd	nd	0.11	nd	nd	nd	nd	nd	nd	nd	0.08	nd	nd	nd
163		VALERIC ACID HYDRAZIDE	nd	nd	nd	nd	nd	1.15	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.34
164		3-hydroxypropanehydrazide	0.57	0.04	nd	0.34	0.27	0.39	2.17	0.18	0.30	0.09	0.49	0.44	nd	0.13	0.38	8.24
165		Cyanoacetohydrazide	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.25
166	Acids	Glycolic acid	0.23	0.02	nd	0.28	nd	0.77	0.18	0.32	nd	nd	nd	nd	1.88	nd	7.63	0.24
167		4-p-toluoylbutyric acid	nd	0.14	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
168		3-(4-Hydroxyphenyl)lactate	nd	0.52	nd	nd	nd	nd	0.68	nd	nd	nd	nd	nd	nd	nd	nd	nd
169		AZETIDINE-2-CARBOXYLIC ACID	nd	nd	nd	0.91	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

170		Butyric Acid	nd	nd	nd	6.09	6.77	7.21	nd	nd	11.69	16.74	9.68	nd	nd	9.06	16.2	14.7
171		Acetic acid	nd	0.24	0.20	2.02	2.09	7.03	0.22	0.26	1.27	1.11	1.10	0.26	0.26	0.67	0.69	0.70
172		1,2,4-Benzenetricarboxylic acid	nd	0.34	0.23	0.10	nd	nd	0.14	0.09	nd	nd	0.04	nd	0.18	nd	nd	nd
173		Malonic acid	nd	nd	nd	nd	0.35	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
174	Sulfides	Dimethyl disulfide	1129.24	209.4	155.17	62.76	35.12	20.29	117.8	207.	166.2	178.0	283.8	323.8	388.	283.1	216.	198.
175		Dimethyl trisulfide	241.58	4.58	6.66	37.65	20.65	19.18	11.79	12.9	15.85	20.59	42.75	12.15	13.9	19.53	15.9	16.5
176		N-HEPTYL METHYL SULFIDE	6.84	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
177		ISOBUTYL ISOTHIOCYANATE	1.20	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
178		DIMETHYL TETRASULFIDE	2.24	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
179		3-(Methylthio)propyl isothiocyanate	2.40	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
180		Sulfur dioxide	nd	0.05	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
181		thiosemicarbazide	nd	0.04	nd	nd	0.20	0.13	0.03	nd	nd	nd	0.63	0.07	nd	nd	0.09	0.06
182		TRIS(METHYLTHIO)METHANE	nd	nd	1.07	nd	nd	nd	nd	nd	nd	nd	nd	2.00	3.84	1.91	1.18	0.56
183		2-METHYL-2-THIOPSEUDOUREA SULFATE	nd	nd	nd	nd	nd	nd	nd	nd	27.24	nd	nd	0.68	5.18	15.31	nd	nd
184		Thiocarbohydrazide	nd	nd	nd	nd	nd	nd	nd	0.14	nd	nd	nd	nd	nd	nd	nd	nd
185		Thian-4-one S-oxide	nd	nd	nd	0.40	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
186		DI-TERT-AMYL DISULFIDE	nd	nd	nd	nd	0.41	nd	nd	nd	0.06	nd	nd	nd	nd	nd	nd	nd
187		S-METHYL THIOACETATE	nd	nd	nd	nd	nd	nd	nd	nd	89.53	108.6	160.4	nd	nd	nd	11.0	nd
188		NISTC42474442	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.77	nd	nd
189		Dimethyl sulfate	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.53	0.41	nd
190		Dimethyl sulfite	nd	nd	nd	nd	0.03	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
191		Bis[1-(methylthio)ethyl] persulfide	nd	nd	nd	nd	nd	nd	1.21	nd	nd	nd	nd	nd	nd	nd	nd	nd
192		Cyclic octaatomic sulfur	nd	nd	nd	nd	nd	nd	0.03	nd	nd	nd	nd	nd	nd	nd	nd	nd
193		METHYL 2-PHENYLETHYL SULFIDE	nd	nd	nd	0.02	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
194		SULFURYL OXYTETRAFLUORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
195		1,1-bis(methylthio)ethane	6.52	12.64	15.52	nd	7.06	2.01	38.91	17.5	35.30	36.36	35.37	84.43	202.	94.06	89.4	126.
196		1-Ethylthio-3-methyl-1,3-butadiene	nd	nd	0.14	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
197		Ditert-butyl sulfone	nd	nd	nd	nd	nd	nd	nd	nd	0.17	nd	nd	nd	nd	nd	nd	nd
198		1-ACETYL-3-THIOSEMICARBAZIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.59

199	Aldehydes	TRANS-2-HEXENAL	2.46	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
200		Decanal	4.59	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
201		2-ETHYLHEXANAL	0.66	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
202		s-Trioxane	1.10	nd	nd	0.88	1.18	0.24	nd	nd	1.01	1.00	0.26	0.16	nd	0.94	0.74	0.53
203		GLYCOLALDEHYDE	nd	0.07	nd	nd	nd	nd	0.37	nd	nd	nd	nd	0.06	0.04	nd	nd	10.5
204		5-Norbornene-2-carboxaldehyde	nd	0.19	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
205		METHOXYACETALDEHYDE	nd	nd	nd	nd	nd	nd	nd	0.12	nd	nd	nd	nd	nd	nd	nd	nd
206		Trimethylacetaldehyde	nd	nd	nd	0.24	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
207		2,4-Dimethylbenzaldehyde	nd	nd	nd	42.42	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
208		1-Nonanal	nd	nd	nd	nd	3.64	nd	nd	nd	2.14	nd	nd	nd	nd	nd	nd	nd
209		2,5-Dimethylbenzaldehyde	nd	nd	nd	nd	1.53	nd	nd	nd	1.51	nd	nd	nd	nd	nd	nd	nd
210		Methylglyoxal	nd	nd	nd	nd	0.05	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
211		4-PHENYLBUTANAL	nd	nd	nd	nd	nd	0.41	nd	nd	nd	0.10	nd	nd	nd	nd	nd	nd
212		Glyoxal	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.61	nd	nd	nd	nd	nd
213		Glycerol formal	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	3.54	nd	nd	nd	nd	nd
214		4-BENZYLOXY-3-METHOXY-2-	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.13	nd	nd	nd	nd	nd
215		PROPARGYLALDEHYDE DIETHYL ACETAL	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.25	nd	nd	nd	nd	nd
216		2-Methoxy-3,6-dimethyl-4-(benzyloxy)benzaldehyde	0.61	nd	nd	nd	0.07	nd	nd	nd	nd	0.04	nd	nd	nd	nd	nd	nd
217		2,4-Bis[(trimethylsilyl)oxy]benzaldehyde	0.61	0.55	0.33	0.73	0.58	0.61	0.50	0.46	0.51	nd	nd	0.41	0.86	0.54	0.62	0.50
218		Benzaldehyde, 2,5-bis[(trimethylsilyl)oxy]-	nd	nd	nd	nd	nd	nd	0.46	nd	nd	nd	nd	nd	nd	nd	nd	nd
219		Dimethoxymethane	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.76	nd	nd	nd	nd	nd
220	Alkanes	1,3-DIOXANE	0.41	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
221		1-Iodononane	0.55	nd	0.55	0.45	0.60	nd	0.35	0.98	0.92	0.43	nd	0.52	nd	0.83	nd	nd
222		Dimethyldimethoxysilane	0.22	nd	nd	0.50	nd	nd	0.30	0.24	nd	nd	nd	nd	nd	0.22	nd	nd
223		Ethoxydimethylvinylsilane	64.19	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
224		1-Bromo-2-methylpropane	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
225		1-BROMO-3-(1,3-DIOXOLAN-2-YL)-4-	nd	5.03	1.81	nd	nd	nd	8.86	3.59	nd	nd	nd	10.79	13.5	2.71	3.37	5.06
226		2,2-Dimethylpentane	nd	0.38	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
227		2,2-Dimethylbutane	nd	nd	nd	nd	nd	nd	nd	0.33	nd	nd	nd	nd	0.23	nd	nd	nd

228	Cyclohexyldimethoxymethylsilane	nd	1.03	0.51	nd	1.04	nd	nd	1.03	0.88	1.00	nd	1.10	0.59	0.67	nd	nd
229	3,5-DIMETHYL-4-OCTANONE	nd	0.07	nd	nd	0.54	nd	nd	nd	0.90	0.51	nd	nd	nd	nd	nd	nd
230	2,2-DIMETHYLHEXANE	nd	0.31	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
231	2,3,4-TRIMETHYLHEXANE	nd	0.84	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
232	2,2,4-trimethylpentane	nd	nd	nd	nd	0.48	nd	0.35	0.36	0.40	0.65	0.89	0.31	nd	nd	nd	nd
233	3-ETHYL-3-METHYLHEPTANE	nd	nd	2.63	nd	1.54	nd	2.12	2.53	1.68	1.25	nd	1.45	3.16	nd	nd	nd
234	Propylene oxide	nd	nd	nd	nd	nd	nd	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
235	2,2,5-TRIMETHYLHEXANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.65	nd	nd	nd	nd
236	1-IODODECANE	nd	nd	nd	0.32	0.35	nd	nd	nd	0.34	nd	nd	0.32	nd	nd	nd	nd
237	2,2,3-TRIMETHYLBUTANE	nd	nd	1.07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
238	2,2,3-TRIMETHYLPENTANE	nd	nd	nd	nd	nd	nd	nd	0.28	nd	nd	nd	nd	nd	nd	nd	nd
239	3,3-DIMETHYLHEXANE	nd	nd	1.66	1.08	nd	nd	nd	nd	nd	0.19	nd	nd	nd	nd	nd	nd
240	1-CHLOROUNDECANE	nd	nd	1.67	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
241	Methylcyclotrisiloxane	nd	nd	nd	nd	nd	nd	nd	7.76	nd	nd	nd	nd	nd	nd	nd	nd
242	2-Bromomethyl-1,3-dioxolane	nd	nd	nd	nd	nd	nd	nd	0.27	nd	nd	nd	nd	nd	nd	nd	nd
243	2,2-DIMETHYLPROPANE	nd	nd	nd	0.13	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
244	2-Methyl-2-nitropropane	nd	nd	nd	0.09	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
245	1-Iodododecane	nd	nd	nd	0.67	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
246	2-METHOXY-1,3-DIOXOLANE	nd	nd	nd	nd	nd	nd	nd	nd	3.31	nd	nd	nd	nd	nd	nd	nd
247	3,3-DIMETHYLOCTANE	nd	nd	nd	nd	nd	nd	nd	nd	0.94	nd	nd	nd	nd	nd	nd	nd
248	2-(2-Bromoethyl)-1,3-dioxolane	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.33	nd	nd
249	(S)-(+)-1-Benzyl-3-aminopyrrolidine	nd	nd	nd	nd	0.75	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
250	2-Bromobutane	nd	nd	nd	nd	0.09	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
251	(S)-(-)-Propylene oxide	nd	nd	nd	nd	0.23	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
252	1-(2-Chloroethoxy)-1-ethoxyethane	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.38	nd
253	Carbon tetrafluoride	nd	nd	nd	nd	nd	0.18	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
254	Tetraoxane	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.54
255	1-Iodotridecane	nd	nd	nd	nd	nd	0.31	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
256	1-(1-Methylpropoxy)butane	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.57	nd	nd	nd	nd	nd

257	2-HYDROXYMETHYL-1,3-DIOXOLANE	0.36	nd	0.07	0.08	nd	0.33	0.60	0.51	0.36	0.13	0.14	0.32	0.23	0.33	0.43	0.48
258	2-methyl-6-ethyloctane	nd	nd	nd	nd	0.90	nd	nd	nd	nd	nd	nd	nd	nd	0.71	nd	nd
259	2,4,5-trimethyl-1,3-dioxolane	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.37	nd	nd	nd	nd	nd
260	(3,3-Difluoroallyl)trimethylsilane	nd	nd	nd	nd	0.27	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
261	3,6-DIMETHYLOCTANE	nd	0.60	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
262	(S)-(+)-4-METHYL-1-HEXANOL	nd	0.78	nd	nd	nd	nd	nd	nd	0.34	nd	nd	nd	nd	nd	nd	nd
263	5-(2-Methylpropyl)nonane	nd	1.48	0.90	nd	nd	nd	1.32	1.49	1.66	nd	nd	nd	nd	1.30	nd	nd
264	DICYCLOPROPYLMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.17	nd	nd	nd	nd
265	3,3,5-Trimethyldecane	nd	nd	nd	nd	nd	nd	nd	0.85	nd	nd	nd	nd	0.57	nd	nd	nd
266	3,8-Dimethylundecane	nd	3.40	1.88	2.03	1.54	nd	nd	1.42	1.96	1.13	nd	1.91	1.25	1.40	nd	nd
267	1α,3β-Diphenylcyclobutane	nd	nd	nd	nd	nd	nd	nd	0.37	nd	nd	nd	nd	nd	nd	nd	nd
268	1-(chloromethoxy)-2-methylpropane	nd	nd	nd	nd	nd	0.05	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
269	2,2,5,5-TETRAMETHYLHEXANE	nd	nd	nd	nd	0.53	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
270	2,2,9-Trimethyldecane	nd	nd	1.15	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
271	2,3,6-trimethyloctane	nd	nd	nd	1.95	2.12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
272	2,4,4-TRIMETHYLHEXANE	nd	0.74	1.02	1.09	0.75	nd	1.43	0.60	1.25	nd	0.29	1.31	1.68	0.19	0.11	nd
273	2,4,6-trimethyloctane	nd	0.74	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.67	nd	nd	nd	nd
274	2,5,5-Trimethylheptane.	nd	0.43	2.63	nd	0.16	0.11	nd	nd	1.02	nd	nd	0.82	nd	nd	nd	nd
275	2,6,6-trimethyloctane	nd	nd	0.77	nd	nd	nd	nd	nd	0.71	nd	nd	nd	nd	nd	nd	nd
276	3-Ethyl-3-methyldecane	nd	0.69	nd	0.90	0.77	nd	nd	nd	0.86	0.64	nd	nd	nd	nd	nd	nd
277	3,3-Dimethyldiaziridine	nd	nd	nd	nd	nd	0.93	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
278	3,3,4-Trimethylheptane.	nd	1.53	nd	1.36	0.64	nd	nd	nd	0.24	nd	nd	0.48	nd	nd	nd	nd
279	3,3,5-TRIMETHYLHEPTANE	nd	0.64	0.60	0.44	nd	nd	0.65	nd	nd	nd	nd	0.04	0.44	0.25	nd	nd
280	3,4,5,6-tetramethyloctane	nd	nd	nd	nd	1.30	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
281	3,7-dimethyldecane	nd	6.76	1.88	2.07	0.46	0.14	0.72	1.31	2.23	0.20	nd	1.79	0.67	nd	nd	nd
282	4,4-Dimethylundecane	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.85	nd	nd	nd
283	5-Methyl-5-propylnonane	1.43	2.33	1.93	1.75	2.36	0.62	1.47	1.97	2.05	2.44	0.68	0.69	nd	1.40	0.41	0.62
284	AZO-TERT-BUTANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.15
Arenes																	

285		3,5-DI-TERT-BUTYLPHENOL	nd	0.97	0.40	nd	0.49	0.28	0.88	1.18	0.40	0.79	nd	1.53	nd	0.72	0.84	1.20
286		m-Xylene	nd	nd	nd	3.22	nd	nd	nd	0.46	nd	nd	nd	0.81	nd	0.53	nd	2.66
287		P-XYLENE	2.53	1.06	1.20	3.07	4.92	0.98	1.62	0.92	2.58	0.71	nd	0.92	1.95	1.17	nd	nd
288		o-Xylene	nd	0.41	nd	nd	0.22	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
289		2-Phenylindole	nd	0.38	nd	0.18	nd	0.36	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
290		4,6-DI(TERT-BUTYL)BENZENE-1,3-DIOL	nd	0.33	nd	0.31	nd	nd	nd	nd	nd	0.21	nd	nd	0.57	nd	nd	nd
291		2,4-Di-tert-butylphenol	nd	nd	nd	2.88	nd	nd	nd	nd	nd	nd	nd	1.65	nd	nd	nd	nd
292		Ethylbenzene	nd	nd	0.34	nd	nd	nd	nd	nd	nd	1.15	nd	nd	nd	nd	nd	nd
293		1,2-BIS(TRIMETHYLSILYL)BENZENE	nd	nd	nd	0.72	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
294		4-Butylphenol	nd	nd	nd	1.76	nd	0.91	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
295	Anhydrides	3,3-DIMETHYLGLUTARIC ANHYDRIDE	0.20	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.54	nd	nd
296		Isobutyric anhydride	nd	0.09	0.99	nd	0.23	0.16	0.04	nd	0.64	0.16	nd	0.26	nd	nd	nd	0.40
297		Propionic anhydride	nd	0.15	0.10	0.20	nd	nd	0.05	nd	nd	0.19	nd	nd	nd	0.05	0.13	nd
298		Butyric anhydride	nd	0.85	nd	nd	0.24	nd	nd	nd	nd	nd	nd	0.52	nd	1.54	nd	nd
299		Diglycolic anhydride	nd	nd	nd	nd	nd	nd	0.03	nd	nd	nd	nd	nd	nd	nd	nd	nd
300		TRIMETHYLACETIC ANHYDRIDE	nd	nd	0.08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
301		Diglycolic anhydride	nd	nd	nd	0.03	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
302		Methanesulfonic anhydride	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.70	nd
303	Alkenes	3,5,5-TRIMETHYL-1-HEXENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.21	nd	nd	nd
304		Cinene	nd	nd	2.34	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
305		Artemisia triene	nd	nd	1.08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
306		(Z)-8-Methyl-2-decene	nd	nd	0.75	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
307		1-(Aminooxy)-2-propene	nd	nd	nd	nd	0.23	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
308		1-Bromo-2,3,3-trifluoro-1-cyclopropene	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.61	nd	nd	nd
309		2,3-Dimethyl-1,3-heptadiene	nd	nd	nd	nd	0.47	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
310		3-METHYL-1,4,6-HEPTATRIENE	nd	nd	nd	0.97	nd	nd	nd	nd	1.16	nd	nd	nd	nd	nd	nd	nd
311		8-Methyl-1-decene	nd	nd	0.93	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
312		3-BROMO-3,3-DIFLUOROPROPENE	nd	nd	nd	nd	nd	nd	nd	0.13	nd	nd	nd	nd	nd	nd	nd	nd
313	Ethers	Methoxyethene	0.00	nd	nd	0.93	nd	nd	nd	nd	nd	nd	nd	nd	0.95	nd	nd	nd

314		2-Methoxyethyl chloride	0.00	nd	nd	nd	0.29	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
315		Vinyl ether	0.00	nd	nd	nd	nd	nd	nd	nd	nd	nd	2.72	nd	nd	nd	nd	nd
316		Methyl(2-methyl-3-butene-2-yl) ether	nd	nd	nd	nd	nd	0.19	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
317		tert-Butyl methyl ether	0.00	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.37
318	Amines	O-Benzylhydroxylamine	0.00	nd	nd	nd	nd	nd	0.38	nd	nd	nd	nd	nd	nd	nd	nd	nd
319		2-Aminoethyl(ethyl)amine	0.00	nd	nd	nd	nd	nd	0.08	nd	nd	nd	nd	nd	nd	nd	nd	nd
320		N-ACRYLOXYSUCCINIMIDE	0.00	nd	nd	0.14	nd	nd	nd	0.08	nd	nd	nd	nd	nd	nd	nd	nd
321		4-FLUORO-3-	0.00	nd	1.22	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
322		Methylamine	0.00	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.35	nd	nd
323		2-FLUORO-5-	0.00	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.11	nd
324		N-METHOXY-N-METHYLBENZAMIDE	0.00	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.20	nd	nd	nd	nd	nd
325		N-[1-[(1,1'-Biphenyl)-2-yl]ethylidene]methanamine	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.13	nd	nd	nd	nd
326		N-[(Pentafluorophenyl)methylene]-β,4-	nd	nd	0.86	0.81	1.22	nd	nd	1.34	0.79	1.02	2.99	nd	0.31	nd	1.78	nd
327		N-Methoxy-formamide	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.97
328		N-Methyl-β,3,4-	nd	nd	nd	nd	nd	nd	nd	nd	0.39	nd	nd	nd	nd	nd	nd	nd
329		2-METHYL-N-PHENYL-PROPANAMIDE	nd	nd	nd	nd	0.17	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
330		4,6-Dimethyl-pyridine-2-carboxylic acid amide	nd	nd	nd	nd	2.73	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
331		3-[(4-chlorophenyl)methyl]pentan-3-amine	nd	nd	nd	nd	0.27	nd	nd	0.28	nd	0.35	0.55	nd	0.25	nd	nd	nd
332		Deprenyl	0.46	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
333		Propanamide, 2-hydroxy-2-methyl-N-phenyl-	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.20	nd	nd	nd	nd	nd
334		3-Ethyl-2-methyl-N-phenylcyclopentanecarboxamide	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.59	nd	nd	nd
335		HYDROXYLAMINE	0.00	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	4.49
336	Others	2-Pentylfuran	0.27	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
337		Methanesulfonyl chloride	0.14	nd	nd	0.06	nd	nd	nd	0.31	nd	nd	nd	nd	nd	nd	nd	nd
338		1,1,1,3,5,7,7,7-OCTAMETHYL-3,5-BIS(TRIM&	2.07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	2.42	nd	nd	nd
339		GLYCOLALDEHYDE DIMER	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
340		Ethyleneimine	nd	0.35	nd	nd	nd	nd	nd	nd	0.04	nd	nd	nd	nd	nd	nd	nd
341		CESIUM ACETATE	nd	nd	nd	nd	nd	nd	0.03	0.02	nd	0.39	nd	nd	nd	nd	nd	0.39
342		Methyl sulfone	nd	nd	nd	nd	nd	nd	229.1	nd	nd	nd	nd	nd	nd	nd	nd	nd

343	Di-tert-butyl peroxide	nd	nd	0.07	nd	nd	nd	nd	nd	nd	0.03	nd	nd	nd	nd	nd	nd
344	TRIS(TRIMETHYLSILOXY)BORON	nd	nd	0.15	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
345	BIUREA	nd	nd	0.15	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
346	Hydroxylamine,O-methyl- (8CI,9CI)	nd	nd	nd	nd	nd	nd	nd	0.07	nd	nd	nd	nd	nd	nd	nd	nd
347	3-OXALURIC ACID	nd	nd	nd	1.71	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
348	1,2,3-1H-Triazole	nd	nd	nd	0.08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
349	PotassiuM triMethylacetate, 95%	nd	nd	nd	0.44	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
350	2-Methoxy-3-sec-butyl pyrazine	nd	nd	nd	5.69	1.86	0.38	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
351	1,11-HEXADECADIYNE	nd	nd	nd	nd	nd	nd	nd	nd	9.49	4.86	nd	nd	nd	nd	nd	nd
352	Acetamiprid	nd	nd	nd	nd	nd	nd	nd	nd	0.38	0.11	nd	nd	nd	nd	nd	nd
353	Hydroxylamine,O-methyl- (8CI,9CI)	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.26	nd	nd	nd	0.04	nd	nd
354	5-Aminotetrazole	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.06	nd	nd
355	METHYL TETRAHYDROFURFURYL ETHER	nd	nd	nd	nd	0.18	nd	nd	nd	nd	0.20	nd	nd	nd	nd	nd	nd
356	2-Aminopyridine	nd	nd	nd	nd	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
357	LITHIUM ACETYLACETONATE	nd	nd	nd	nd	0.50	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
358	2,6-Dimethylpiperidine	nd	nd	nd	nd	2.51	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
359	Clindamycin	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.03	nd	nd	nd	nd	nd	nd
360	2,4,6-TRIPHENYL-S-TRIAZINE	nd	nd	nd	nd	nd	1.05	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
361	2,9-Dimethyl-1,10-phenanthroline	nd	nd	nd	nd	nd	0.23	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
362	1,1'-Carbonyldiimidazole	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.39	nd	nd	nd	nd	nd
363	THIOPHENE-2-CARBOXALDOXIME	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	4.10
364	diaminoguanidine	nd	nd	nd	nd	nd	nd	1.57	nd	nd	nd	nd	nd	nd	nd	nd	nd
365	guanidine	nd	nd	nd	nd	nd	nd	nd	nd	0.13	nd	nd	nd	nd	0.40	nd	nd
366	Methylaziridine	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.03	1.32	nd	nd	nd	nd	nd
367	Phosphine oxide, bis(pentamethylphenyl)-	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.03
368	1,1'-Dodecylidenebis(4-methylbenzene)	nd	0.21	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
369	2-(Benzylsulfonyl)-1{H}-benzimidazole	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.42	nd	nd	nd	nd	nd	nd
370	2-TERT-BUTOXYTETRAHYDROFURAN	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.21	nd	nd	nd	nd	nd	nd
371	2,4-dimethylpentanal	nd	nd	nd	nd	0.65	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

372	anti-2-Acetoxyacetaldoxime	nd	nd	nd	0.16	0.10	nd	nd	nd	nd	0.13	nd	nd	nd	0.04	nd	nd

Fig. S1. Changes in the total microbes (A), LAB (B), and fungi (C) counts during the fermentation process of Sichuan pickle in COJ (white square with dotted line), IOJ (grey triangle with dashed line), and CCJ (black round with solid line). Values are the mean ± SD from the experiments performed in triplicate, and significant difference is analyzed by *t*-test: (ns) $p>0.05$, (*) $p\leq0.05$ and (**) $p\leq0.01$.

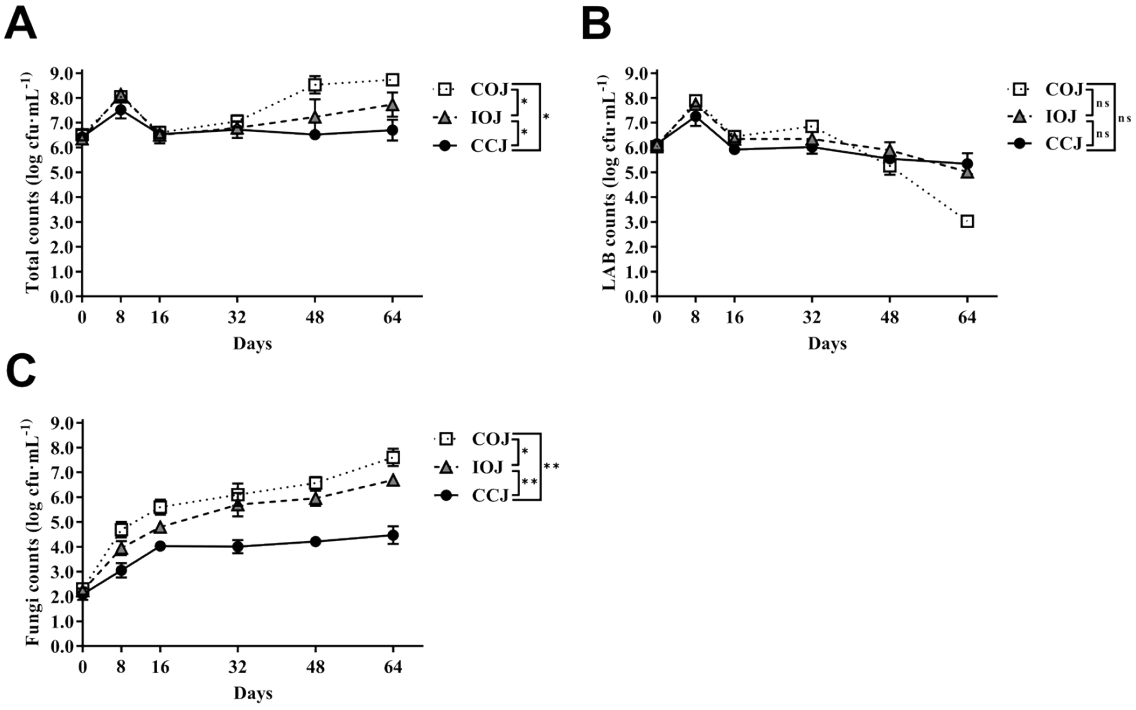

Fig. S2. Observed (A) and Shannon (B) curves of bacterial populations of Sichuan pickle samples in COJ and CCJ. Each line represents data from one sample.

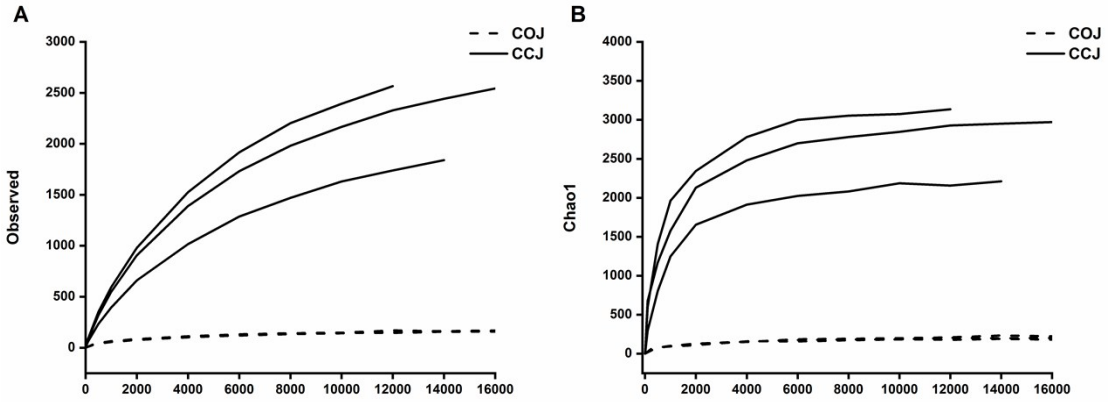

Fig. S3 The bacterial compositions at genera level in CCJ on the 32nd day. The relative abundances of these genera are between 0.1% to 1.0%.

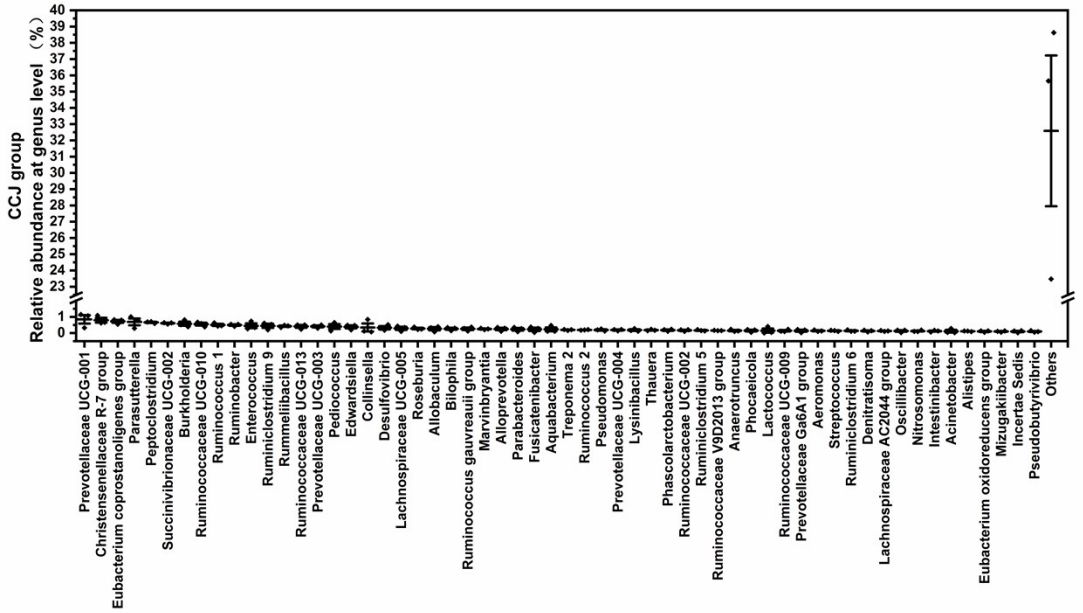

Fig. S4. Images representing different degrees of pellicle formation.