

**Table S2** The relative percentages of major components of the co-pyrolysis of BB and WT.

Compound	Relative Area (%)							
	BB: WT	10: 0	9: 1	7: 3	5: 5	3: 7	1: 9	0: 10
Styrene	-	1.05	1.54	1.90	2.13	2.08	2.07	
Cyclohexene, 3-(1-methylethyl)-	-	-	-	-	-	2.20	2.18	
2-Cyclopenten-1-one, 2-methyl	1.07	0.90	0.93	0.69	-	-	-	
1,2-Cyclopentanedione	11.52	14.73	10.92	9.11	4.82	1.14	-	
2,6-Dimethyl-1,3,6-heptatriene	-	-	-	0.82	1.60	1.67	1.50	
2,4,6-Octatriene, 2,6-dimethyl-, (E,E)-	-	-	-	0.72	1.59	2.25	1.86	
Methanone, dicyclopropyl-	1.37	1.00	0.87	0.72	-	-	-	
1,3,6-Heptatriene, 2,5,5-trimethyl-	-	-	-	0.80	1.80	2.19	1.31	
1,3,7-Octatriene, 2,7-dimethyl-	-	-	-	1.00	1.62	2.05	2.13	
Camphene	-	0.41	1.24	2.32	2.91	3.61	3.58	
$\beta$ -Acetylacrylic acid	2.14	2.75	2.27	1.75	1.72	-	-	
2,4,6-Octatriene, 2,6-dimethyl-, (E,Z)-	-	-	-	-	1.46	1.28	2.58	
Benzene, 1,3-diethyl-	-	-	0.68	1.16	1.81	2.13	2.05	
$\gamma$ -Terpinene	-	-	0.78	1.24	1.72	2.16	2.01	
Benzene, 2-ethyl-1,4-dimethyl-	-	1.45	7.56	7.57	7.83	8.47	9.55	
Cyclohexene, 4-methyl-1-(1-methylethenyl)-	-	9.78	24.53	36.80	40.88	35.92	31.09	
1,5-Heptadiene, 2,5-dimethyl-3-methylene-	-	-	0.62	1.04	1.37	2.03	1.48	
Ethanone, 1-(2-methyl-1-cyclopenten-1-yl)-	7.51	5.75	4.04	2.85	1.14	-	-	
Benzene, 1-methyl-4-(1-methylethenyl)-	-	0.55	1.49	2.32	2.88	3.19	2.83	
1,3,8-p-Menthatriene	-	-	0.63	1.12	2.09	2.28	2.29	
Phenol, 4-ethyl-	1.20	1.16	0.79	-	-	-	-	
Creosol	1.10	1.35	1.10	-	-	-	-	
1,2-Benzisothiazole	-	-	-	0.89	1.06	1.71	-	
4-Vinylphenol	16.59	12.55	8.66	4.86	1.43	-	-	
Phenol, 4-ethyl-2-methoxy-	1.15	1.07	0.72	-	-	-	-	
2-Methoxy-4-vinylphenol	6.14	5.32	3.62	2.10	0.58	-	-	
Phenol, 2,6-dimethoxy-	9.66	7.90	5.17	2.63	0.64	-	-	
trans- $\alpha$ -Bergamotene	-	-	-	1.17	1.39	1.42	1.35	
3,5-Dimethoxy-4-hydroxytoluene	3.32	3.15	2.39	0.88	-	-	-	
Quinoline, 1,2-dihydro-2,2,4-trimethyl-	-	-	-	-	-	1.36	1.37	
Phenol, 2-methoxy-4-(1-propenyl)-	1.27	1.48	1.18	-	-	-	-	
Spiro[5.5]undec-2-ene, 3,7,7-trimethyl-11-methylene-, (-)-	-	-	0.88	1.37	1.59	1.33	1.23	
4-Ethyl-2,6-dimethoxyphenol	2.05	2.17	1.43	0.68	-	-	-	
Phenol, 4-ethenyl-2,6-dimethoxy-	5.64	5.17	3.46	1.27	-	-	-	
Benzoic acid, 4-hydroxy-3,5-dimethoxy-, methyl ester	7.99	-	-	-	-	-	-	
1,4-Benzenediamine, N-(1,3-dimethylbutyl)-N'-phenyl-	-	-	-	-	0.58	0.83	1.07	

Note: “-” indicates “not detected”.