TABLE VII
GC RETENTION TIMES OF PCB CONGENERS RELATIVE TO RT REFERENCE STANDARD ON A SP-2331 FUSED-SILICA CAPILLARY COLUMN

IUPAC	structure	RRT[a]	RRT[b]	RRT[c]	IUPAC	structure	RRT[a]	RRT[b]	RRT[c]
30	246	1.000	1.000	0.2357	67	245-3	1.321	1.531	0.3608
17	24-2	1.120	1.120	0.2640	61	2345	1.332	1.544	0.3639
19	26-2	1.125	1.125	0.2650	64	236-4	1.337	1.549	0.3651
18	25-2	1.132	1.132	0.2667	58	23-35	1.343	1.557	0.3668
23	235	1.142	1.142	0.2692	63	235-4	1.346	1.560	0.3676
34	35-2	1.148	1.148	0.2706	41	234-2	1.351	1.565	0.3689
29	245	1.163	1.163	0.2742	74	245-4	1.369	1.586	0.3738
24	236	1.165	1.165	0.2746	76	345-2	1.388	1.609	0.3791
27	26-3	1.169	1.169	0.2756	80	35-35	1.430	1.657	0.3906
32	26-4	1.202	1.202	0.2833	40	23-23	1.439	1.667	0.3929
25	24-3	1.231	1.231	0.2901	70	25-34	1.456	1.687	0.3977
26	25-3	1.247	1.247	0.2939	66	24-34	1.484	1.719	0.4052
16	23-2	1.260	1.260	0.2970	55	234-3	1.543	1.788	0.4215
28	24-4	1.268	1.268	0.2989	60	234-4	1.616	1.873	0.4414
31	25-4	1.279	1.279	0.3015	56	23-34	1.643	1.904	0.4488
21	234	1.329	1.329	0.3132	79	34-35	1.729	2.004	0.4722
33	34-2	1.352	1.352	0.3186	78	345-3	1.829	2.120	0.4995
20	23-3	1.383	1.383	0.3260	81	345-4	1.920	2.225	0.5244
36	35-3	1.405	1.405	0.3310	77	34-34	2.133	2.472	0.5826
22	23-4	1.427	1.427	0.3363	104	246-26	1.000	1.271	0.2996
39	35-4	1.457	1.457	0.3433	100	246-24	1.056	1.343	0.3164
38	345	1.500	1.500	0.3535	103	246-25	1.059	1.346	0.3172
35	34-3	1.683	1.683	0.3966	121	246-35	1.088	1.383	0.3260
37	34-4	1.772	1.772	0.4176	94	235-26	1.155	1.468	0.3460
50	246-2	1.000	1.159	0.2731	102	245-26	1.183	1.504	0.3545
69	246-3	1.077	1.248	0.2942	96	236-26	1.189	1.511	0.3562
54	26-26	1.091	1.264	0.2979	98	246-23	1.190	1.513	0.3565
73	26-35	1.098	1.272	0.2999	88	2346-2	1.214	1.543	0.3637
51	24-26	1.103	1.278	0.3011	93	2356-2	1.217	1.547	0.3647
53	25-26	1.108	1.284	0.3026	90	235-24	1.258	1.599	0.3769
75	246-4	1.120	1.298	0.3059	91	236-24	1.265	1.608	0.3790
43	235-2	1.137	1.317	0.3105	92	235-25	1.269	1.613	0.3802
47	24-24	1.138	1.319	0.3108	95	236-25	1.271	1.616	0.3809
62	2346	1.141	1.322	0.3115	99	245-24	1.279	1.626	0.3831
49	24-25	1.148	1.330	0.3136	101	245-25	1.292	1.642	0.3870
48	245-2	1.153	1.336	0.3148	113	236-35	1.308	1.663	0.3919
65	2356	1.157	1.341	0.3161	119	246-34	1.312	1.668	0.3931
52	25-25	1.160	1.344	0.3168	111	235-35	1.368	1.739	0.4099
45	236-2	1.187	1.376	0.3242	108	2346-3	1.377	1.750	0.4125
68	24-35	1.199	1.389	0.3273	112	2356-3	1.391	1.768	0.4166
72	25-35	1.210	1.402	0.3305	83	235-23	1.396	1.775	0.4183
46	23-26	1.249	1.448	0.3412	116	23456	1.401	1.782	0.4199
59	236-3	1.287	1.491	0.3514	89	234-26	1.407	1.788	0.4215
42	23-24	1.291	1.496	0.3525	125	345-26	1.407	1.788	0.4215
57	235-3	1.296	1.502	0.3540	84	236-23	1.413	1.796	0.4234
44	23-25	1.300	1.506	0.3549	120	245-35	1.432	1.821	0.4292
71	26-34	1.314	1.522	0.3587	115	2346-4	1.442	1.833	0.4320

TABLE VII (continued)
GC RETENTION TIMES OF PCB CONGENERS RELATIVE TO RT REFERENCE
STANDARD ON A SP-2331 FUSED-SILICA CAPILLARY COLUMN

IUPAC	structure	RRT[a]	RRT[b]	RRT[c]	IUPAC	structure	RRT[a]	RRT[b]	RRT[c]
86	2345-2	1.448	1.841	0.4340	160	23456-3	1.891	2.451	0.5775
97	245-23	1.461	1.858	0.4378	138	234-245	1.892	2.452	0.5778
117	2356-4	1.461	1.858	0.4379	158	2346-34	1.898	2.461	0.5799
85	234-24	1.515	1.927	0.4541	163	2356-34	1.916	2.483	0.5851
87	234-25	1.529	1.944	0.4580	159	2345-35	1.965	2.547	0.6002
110	236-34	1.607	2.043	0.4814	166	23456-4	1.997	2.588	0.6099
123	345-24	1.614	2.052	0.4836	129	2345-23	1.997	2.588	0.6100
107	234-35	1.636	2.081	0.4903	162	235-345	2.050	2.657	0.6262
124	345-25	1.639	2.084	0.4910	167	245-345	2.099	2.720	0.6411
109	235-34	1.674	2.129	0.5016	128	234-234	2.260	2.929	0.6903
106	2345-3	1.695	2.155	0.5080	156	2345-34	2.418	3.134	0.7386
118	245-34	1.714	2.179	0.5135	157	234-345	2.466	3.196	0.7532
82	234-23	1.748	2.222	0.5237	169	345-345	3.071	3.981	0.9382
114	2345-4	1.777	2.259	0.5324	188	2356-246	1.000	1.658	0.3907
122	345-23	1.845	2.345	0.5527	184	2346-246	1.018	1.687	0.3976
127	345-35	2.022	2.571	0.6059	179	2356-236	1.197	1.985	0.4679
105	234-34	2.031	2.582	0.6084	176	2346-236	1.222	2.025	0.4773
126	345-34	2.483	3.157	0.7440	186	23456-26	1.252	2.076	0.4891
155	246-246	1.000	1.296	0.3055	182	2345-246	1.280	2.122	0.5001
150	236-246	1.178	1.527	0.3599	178	2356-235	1.304	2.163	0.5096
148	235-246	1.200	1.555	0.3665	175	2346-235	1.312	2.175	0.5125
154	245-246	1.237	1.603	0.3778	187	2356-245	1.358	2.252	0.5307
152	2356-26	1.254	1.625	0.3830	183	2346-245	1.361	2.256	0.5318
145	2346-26	1.271	1.647	0.3881	185	23456-25	1.493	2.475	0.5832
136	236-236	1.421	1.842	0.4341	181	23456-24	1.502	2.490	0.5868
139	2346-24	1.421	1.842	0.4341	174	2345-236	1.560	2.586	0.6095
151	2356-25	1.424	1.846	0.4350	177	2356-234	1.615	2.678	0.6310
144	2346-25	1.425	1.847	0.4353	171	2346-234	1.625	2.694	0.6350
147	2356-24	1.426	1.848	0.4355	192	23456-35	1.682	2.788	0.6571
135	235-236	1.449	1.878	0.4427	172	2345-235	1.704	2.825	0.6658
140	234-246	1.462	1.895	0.4465	173	23456-23	1.705	2.827	0.6662
149	236-245	1.496	1.939	0.4570	180	2345-245	1.749	2.899	0.6832
133	235-235	1.523	1.974	0.4652	191	2346-345	1.784	2.958	0.6970
143	2345-26	1.524	1.976	0.4656	193	2356-345	1.798	2.980	0.7024
161	2346-35	1.529	1.981	0.4670	170	2345-234	2.063	3.421	0.8062
168	246-345	1.539	1.994	0.4700	190	23456-34	2.085	3.456	0.8146
165	2356-35	1.543	1.999	0.4712	189	2345-345	2.333	3.868	0.9115
146	235-245	1.560	2.022	0.4765					
142	23456-2	1.574	2.041	0.4809					
153	245-245	1.593	2.065	0.4867					
134	2356-23	1.621	2.101	0.4951					
131	2346-23	1.628	2.110	0.4973					
137	2345-24	1.743	2.259	0.5323					
141	2345-25	1.757	2.277	0.5367					
132	234-236	1.789	2.319	0.5465					
130	234-235	1.848	2.395	0.5645					
164	236-345	1.888	2.447	0.5767					

RRT[a]: relative to the RT of IUPAC #30
RRT[b]: relative to the RT of first elute isomer
RRT[c]: relative to the sum of IUPAC #52 and #180