

Certificate of Composition  
 Part #: SD-053-090  
 FCC Treated Gasoline

ASTM D6730 with Helium Carrier

### Summary by Group

<u>Group</u>	<u>%Wgt</u>	<u>%Vol</u>	<u>%Mol</u>	<u>Avg MW</u>	<u>Avg SG</u>
Paraffin	13.085	14.590	14.821	12.390	0.095
I-Paraffins	27.751	30.240	28.674	26.278	0.202
Aromatics	24.652	20.411	20.273	23.343	0.179
<i>Mono-Aromatics</i>	22.129	18.459	18.459	20.955	0.161
<i>Naphthalenes</i>	0.307	0.218	0.226	0.291	0.002
<i>Indanes</i>	2.008	1.577	1.443	1.901	0.015
<i>Indenes</i>	0.207	0.157	0.145	0.196	0.002
Naphthenes	12.570	12.036	12.660	11.903	0.091
<i>Mono-Naphthenes</i>	12.570	12.036	12.660	11.903	0.091
<i>Di/Bicyclo-Naphthenes</i>	0.000	0.000	0.000	0.000	0.000
Olefins	20.144	21.127	22.437	19.075	0.147
<i>n-Olefins</i>	5.769	6.258	6.925	5.463	0.042
<i>Iso-Olefins</i>	11.371	11.978	12.402	10.768	0.083
<i>Naphtheno-Olefins</i>	2.347	2.242	2.485	2.223	0.017
<i>Di-Olefins</i>	0.656	0.649	0.625	0.621	0.005
Oxygenates	0.000	0.000	0.000	0.000	0.000
Unidentified	1.798	1.596	1.135	1.702	0.013
Plus	0.000	0.000	0.000	0.000	0.000
	<b>100.000</b>	<b>100.000</b>	<b>100.000</b>	<b>94.691</b>	<b>0.728</b>

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## Component List

<u>Pk#</u>	<u>Time</u>	<u>C#</u>	<u>Component</u>	<u>%Wgt</u>	<u>%Vol</u>	<u>%Mol</u>
1	9.112	4	i-Butane	0.022	0.028	0.035
2	9.848	4	Isobutene	0.025	0.030	0.042
3	9.885	4	Butene-1	0.044	0.053	0.074
4	10.195	4	n-Butane	0.494	0.621	0.804
5	10.617	4	t-Butene-2	0.219	0.264	0.370
6	10.715	5	2,2-Dimethylpropane	0.007	0.009	0.010
7	11.232	4	c-Butene-2	0.172	0.202	0.291
8	12.893	5	3-Methylbutene-1	0.067	0.078	0.091
9	13.963	5	i-Pentane	6.962	8.177	9.137
10	14.972	5	Pentene-1	0.240	0.272	0.324
11	15.450	5	2-Methylbutene-1	0.723	0.809	0.976
12	15.747	5	n-Pentane	5.481	6.370	7.193
13	16.337	5	t-Pentene-2	1.454	1.632	1.962
14	16.713	5	3,3-Dimethylbutene-1	0.011	0.012	0.015
15	16.885	5	c-Pentene-2	0.643	0.714	0.868
16	17.227	5	2-Methylbutene-2	2.599	2.856	3.509
17	18.298	6	2,2-Dimethylbutane	0.093	0.105	0.103
18	19.608	5	Cyclopentene	0.219	0.207	0.305
19	19.980	6	4-Methylpentene-1	0.035	0.038	0.039
20	20.060	6	3-Methylpentene-1	0.054	0.059	0.061
21	20.458	5	Cyclopentane	0.854	0.834	1.153
22	20.648	6	2,3-Dimethylbutane	0.855	0.940	0.939
23	20.792	6	2,3-Dimethylbutene-1	0.113	0.121	0.128
24	20.942	?	Unidentified	0.071	0.063	0.045
25	21.055	6	2-Methylpentane	4.657	5.190	5.117
26	21.205	6	4-Methyl-t-pentene-2	0.255	0.276	0.287
27	22.243	6	3-Methylpentane	3.017	3.305	3.315
28	22.722	6	Hexene-1	0.336	0.361	0.378
29	22.818	6	1c/t,4-Hexadiene	0.108	0.113	0.122
30	23.815	6	n-Hexane	3.522	3.887	3.870
31	24.052	6	t-Hexene-3	0.338	0.361	0.380
32	24.130	6	c-Hexene-3	0.098	0.105	0.111
33	24.287	6	t-Hexene-2	0.738	0.787	0.830
34	24.502	6	2-Methylpentene-2	0.977	1.028	1.099
35	24.613	6	3-Methylcyclopentene	0.126	0.120	0.145
36	24.768	6	3-Methyl-c-pentene-2	0.548	0.571	0.617
37	24.917	6	4-methylcyclopentene	0.065	0.062	0.075
38	25.155	6	c-Hexene-2	0.338	0.355	0.380
39	25.753	7	3,3-Dimethylpentene-1	0.935	0.969	0.901
40	26.100	7	2,2-Dimethylpentane	0.032	0.034	0.030
41	26.322	6	Methylcyclopentane	3.030	2.945	3.409
42	26.750	7	2,4-Dimethylpentane	0.274	0.297	0.259
43	26.810	7	2,3,3-Trimethylbutene-1	0.273	0.280	0.263
44	27.245	7	2,2,3-Trimethylbutane	0.014	0.014	0.013

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45	28.135	7	C7 -Naph-Olefin - 1	0.014	0.014	0.014
46	28.520	7	2,4-Dimethylpentene-1	0.031	0.032	0.030
47	28.785	6	1-Methylcyclopentene	0.957	0.894	1.104
48	28.962	6	Benzene	0.947	0.784	1.148
49	29.197	7	3,3-Dimethylpentane	0.025	0.026	0.024
50	29.512	7	2-Pentene, 2,4-dimethyl-	0.109	0.114	0.105
51	29.737	7	1-Pentene, 2,3-dimethyl-	0.009	0.009	0.009
52	29.923	6	Cyclohexane	1.052	0.983	1.184
53	30.195	7	2-Methyl-t-hexene-3	0.088	0.092	0.085
54	30.377	?	Unidentified	0.011	0.010	0.007
55	30.468	7	1,4-Hexadiene, 2-methyl-	0.007	0.007	0.007
56	30.595	7	1,4-Pentadiene, 3,3-dimethyl-	0.030	0.029	0.029
57	30.867	7	2-Hexene, 4-methyl-, (E)-	0.184	0.190	0.178
58	31.035	7	2-Methylhexane	1.702	1.825	1.608
59	31.230	7	2,3-Dimethylpentane	0.629	0.658	0.594
60	31.595	7	Dimethyl pentadiene	0.134	0.140	0.132
61	31.943	6	Cyclohexene	0.101	0.090	0.116
62	32.142	7	3-Methylhexane	1.695	1.796	1.602
63	32.633	7	1,5-Heptadiene	0.073	0.071	0.074
64	33.003	7	1t,3-Dimethylcyclopentane	0.769	0.747	0.742
65	33.387	7	1c,3-Dimethylcyclopentane	0.645	0.630	0.622
66	33.548	7	3-Ethylpentane	0.239	0.249	0.226
67	33.770	7	1t,2-Dimethylcyclopentane	0.705	0.683	0.680
68	33.942	8	2,2,4-Trimethylpentane	0.112	0.117	0.092
69	34.062	?	Unidentified	0.094	0.083	0.059
70	34.835	7	3-Methyl-c-hexene-3	0.150	0.152	0.145
71	35.342	7	2-Methylhexene-1	0.288	0.301	0.278
72	35.432	7	C7_Iso-Olefins(1)	0.316	0.329	0.304
73	35.603	7	n-Heptane	1.583	1.685	1.496
74	35.943	7	3-Methyl-c-hexene-2	0.713	0.729	0.688
75	36.112	7	2-Methyl-2-hexene	0.266	0.272	0.257
76	36.385	7	3-Methyl-t-hexene-3	0.268	0.281	0.258
77	36.647	7	t-Heptene-2	0.143	0.148	0.138
78	37.137	7	3-Ethylpentene-2	0.516	0.518	0.497
79	37.782	7	3-Methyl-t-hexene-2	0.247	0.250	0.238
80	38.453	7	3-Ethylcyclopentene	0.021	0.020	0.021
81	38.752	7	1c,2-Dimethylcyclopentane	0.344	0.341	0.331
82	38.903	7	Methylcyclohexane	1.304	1.233	1.258
83	39.405	8	1,1,3-Trimethylcyclopentane	0.138	0.134	0.116
84	40.055	8	2,2-Dimethylhexane	0.023	0.024	0.019
85	40.442	8	1,3-Dimethyl-1-cyclohexene	0.021	0.020	0.018
86	41.015	7	Ethylcyclopentane	0.562	0.534	0.542
87	41.510	8	2,4-Dimethylhexane	0.326	0.339	0.270
88	42.665	8	1c,2t,4-Trimethylcyclopentane	0.266	0.254	0.224

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89	43.943	?	Unidentified	0.057	0.050	0.036
90	44.190	8	1t,2c,3-Trimethylcyclopentane	0.160	0.151	0.135
91	44.765	8	2,3,4-Trimethylpentane	0.036	0.036	0.030
92	44.963	7	5-Methyl-c-hexene-2	0.618	0.637	0.596
93	45.295	7	1-Ethylcyclopentene	0.149	0.148	0.126
94	45.865	7	Toluene	2.923	2.454	3.004
95	46.273	?	Unidentified	0.020	0.018	0.012
96	46.567	8	4-methyl-2-heptene(1)	0.020	0.020	0.017
97	47.188	8	2,3-Dimethylhexane	0.260	0.266	0.215
98	47.457	8	2-Methyl-3-ethylpentane	0.064	0.065	0.053
99	47.720	8	2-Hexene, 2,5-dimethyl-	0.101	0.104	0.085
100	48.212	7	Cyclohexene, 1-methyl-	0.227	0.226	0.192
101	48.667	8	2-Methylheptane	0.889	0.928	0.737
102	49.038	8	4-Methylheptane	0.304	0.314	0.252
103	49.330	8	C8-Isoparaffin-1	0.076	0.077	0.063
104	50.098	8	C8 - Naph-Olefin - 3	0.098	0.095	0.083
105	50.220	8	1,3-dimethyl-t-cyclohexane	0.103	0.097	0.087
106	50.578	8	3-Methylheptane	0.795	0.819	0.659
107	51.023	8	3-Ethylhexane	0.420	0.429	0.348
108	51.225	8	1t,2-Dimethylcyclohexane	0.127	0.119	0.107
109	51.527	8	1,3-dimethyl-c-cyclohexane	0.133	0.127	0.112
110	53.703	9	2,2,5-Trimethylhexane	0.112	0.115	0.083
111	54.027	8	3c-Ethylmethylcyclopentane	0.313	0.297	0.264
112	54.632	8	3t-Ethylmethylcyclopentane	0.193	0.183	0.163
113	55.032	8	1c,4-Dimethylcyclohexane	0.182	0.169	0.153
114	55.688	8	3-Heptene, 4-methyl-	0.110	0.105	0.093
115	56.318	8	1,4-Hexadiene, 2,3-dimethyl-	0.304	0.289	0.261
116	56.673	8	Octene-1	0.118	0.113	0.100
117	57.540	8	3-Octene, (Z)-	0.375	0.357	0.316
118	58.355	8	n-Octane	0.809	0.838	0.671
119	58.718	8	Cyclohexane, 1,4-dimethyl-	0.295	0.280	0.249
120	59.635	9	2,3,3-Trimethylhexene-1	0.099	0.105	0.074
121	59.897	?	Unidentified	0.053	0.047	0.033
122	60.305	8	Cyclopentene, 1,2,3-trimethyl-	0.329	0.319	0.283
123	60.753	8	2-Hexene, 3,5-dimethyl-	0.191	0.181	0.161
124	62.402	8	t-Octene-3	0.056	0.056	0.047
125	64.585	8	Cyclopentane, 1-ethyl-2-methyl	0.109	0.104	0.092
126	64.827	?	Unidentified	0.043	0.038	0.027
127	65.185	8	C8 - Naph-Olefin - 5	0.063	0.062	0.053
128	66.117	8	1,4-Dimethyl-1-cyclohexene	0.046	0.046	0.040
129	66.763	9	2,4-Dimethylheptane	0.129	0.132	0.095
130	68.765	8	Ethylcyclohexane	0.198	0.184	0.167
131	69.405	9	2,6-Dimethylheptane	0.073	0.075	0.054
132	70.582	8	1-Ethyl-2-Methylcyclopentene	0.141	0.140	0.122

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133	71.872	9	2,5-Dimethylheptane	0.208	0.212	0.154
134	72.282	9	C9 - MonoNaph - 2	0.042	0.040	0.032
135	72.748	?	Unidentified	0.039	0.034	0.024
136	73.152	9	1,1,4-Trimethylcyclohexane	0.050	0.047	0.037
137	73.695	9	trans-1,3-Diethylcyclopentane	0.066	0.055	0.050
138	75.495	8	Ethylbenzene	0.900	0.755	0.802
139	76.023	9	1c,2t,4t-Trimethylcyclohexane	0.113	0.105	0.085
140	76.710	8	3-Heptene, 4-ethyl-	0.036	0.033	0.027
141	77.390	?	Unidentified	0.032	0.028	0.020
142	78.277	8	m-Xylene	2.532	2.132	2.258
143	78.593	8	p-Xylene	1.013	0.857	0.904
144	79.673	?	Unidentified	0.084	0.075	0.053
145	80.255	9	4-Ethylheptane	0.068	0.069	0.051
146	80.423	?	Unidentified	0.056	0.050	0.036
147	80.797	9	3,3-Diethylpentane	0.020	0.019	0.015
148	81.160	9	4-Methyloctane	0.331	0.335	0.245
149	81.468	9	2-Methyloctane	0.493	0.503	0.364
150	81.830	9	C9 - NaphOlefin - 2	0.064	0.063	0.049
151	82.097	?	Unidentified	0.030	0.026	0.019
152	82.937	9	Heptane, 3-ethyl-	0.109	0.109	0.080
153	83.315	9	3,4-Dimethylheptane	0.493	0.491	0.364
154	83.640	?	Unidentified	0.064	0.057	0.040
155	84.088	10	2,2,4-trimethylheptane	0.036	0.036	0.024
156	84.647	8	o-Xylene	1.347	1.114	1.202
157	86.132	8	Cyclopentane, 1-methyl-2-propyl-	0.104	0.086	0.093
158	86.428	9	C9 MonoNaph - 7	0.188	0.171	0.141
159	87.012	9	3-Methyloctane	0.154	0.156	0.114
160	87.457	9	1à,2á,3à,4á-Tetramethylcyclopentane	0.040	0.037	0.030
161	87.722	?	Unidentified	0.036	0.032	0.023
162	88.050	8	C9-IsoOlefin-3	0.110	0.102	0.082
163	89.030	9	trans-4-Nonene	0.134	0.143	0.101
164	89.492	9	cis-4-Nonene	0.062	0.066	0.046
165	89.917	9	cis-3-Nonene	0.091	0.097	0.068
166	90.525	9	n-Nonane	0.382	0.387	0.282
167	91.077	10	Heptane, 2,5,5-trimethyl-	0.085	0.085	0.057
168	91.312	10	C10 - IsoOlefin - 2	0.025	0.026	0.017
169	91.545	9	Cyclohexane, 1-ethyl-4-methyl-, trans	0.036	0.034	0.027
170	91.827	?	Unidentified	0.070	0.063	0.044
171	92.928	9	i-Propylbenzene	0.037	0.031	0.029
172	93.122	?	Unidentified	0.027	0.024	0.017
173	93.422	9	Cyclohexene,3-propyl-	0.055	0.055	0.042
174	93.580	?	Unidentified	0.031	0.027	0.019
175	94.400	10	Heptane, 2,3,5-trimethyl-	0.041	0.030	0.027
176	94.892	10	Heptane, 2,4,6-trimethyl-	0.066	0.048	0.044

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177	95.077	?	Unidentified	0.062	0.055	0.039
178	95.848	?	Unidentified	0.020	0.018	0.013
179	96.063	10	C10 IsoParaffin - 1	0.028	0.028	0.018
180	96.382	10	t-2,2,5,5-Tetramethylhexene-3	0.176	0.183	0.119
181	97.267	10	2,3,6-trimethylheptane	0.108	0.078	0.072
182	97.487	10	2,7-dimethyloctane(1)	0.061	0.061	0.041
183	98.235	10	2,6-Dimethyloctane	0.138	0.138	0.092
184	98.822	9	C9 - MonoNaph - 9	0.022	0.020	0.017
185	99.238	9	n-Propylbenzene	0.294	0.249	0.232
186	100.178	10	3-Methyl-5-ethylheptane	0.034	0.034	0.022
187	100.782	9	1-Methyl-3-ethylbenzene	1.428	1.202	1.125
188	101.152	9	1-Methyl-4-ethylbenzene	0.525	0.444	0.414
189	101.702	?	Unidentified	0.015	0.013	0.009
190	102.272	9	1,3,5-Trimethylbenzene	0.717	0.603	0.565
191	102.437	?	Unidentified	0.072	0.064	0.046
192	103.292	10	2,3-Dimethyloctane(1)	0.108	0.107	0.072
193	103.603	10	2,2,6-Trimethyloctane	0.205	0.206	0.137
194	104.073	9	1-Methyl-2-ethylbenzene	0.664	0.549	0.523
195	104.418	?	Unidentified	0.007	0.006	0.004
196	104.677	10	3-Ethyloctane	0.025	0.025	0.017
197	105.257	10	3-Methylnonane	0.388	0.385	0.258
198	105.777	?	Unidentified	0.032	0.029	0.020
199	106.798	9	1,2,4-Trimethylbenzene	2.192	1.822	1.727
200	106.923	?	Unidentified	0.089	0.079	0.056
201	107.180	?	Unidentified	0.034	0.030	0.021
202	107.367	10	C10-IsoOlefin -15	0.088	0.091	0.059
203	107.592	10	C10 IsoParaffin - 8	0.040	0.040	0.027
204	107.848	9	Cyclopentane, 1-methyl-3-(1-methyl	0.044	0.040	0.033
205	108.292	9	C9 - MonoNaph - 10	0.036	0.033	0.027
206	108.607	?	Unidentified	0.012	0.010	0.007
207	108.792	?	Unidentified	0.084	0.075	0.053
208	109.327	?	Unidentified	0.032	0.028	0.020
209	109.508	10	trans-3-Decene	0.047	0.047	0.032
210	109.862	?	Unidentified	0.023	0.020	0.014
211	110.172	10	n-Decane	0.348	0.347	0.232
212	110.667	10	3-Decene	0.054	0.053	0.037
213	111.447	9	1,2,3-Trimethylbenzene	0.511	0.416	0.403
214	111.760	10	1-Methyl-3-i-propylbenzene	0.055	0.047	0.039
215	112.313	10	1-Methyl-4-i-propylbenzene	0.042	0.035	0.029
216	112.628	11	C11 IsoParaffin - 5	0.023	0.022	0.014
217	112.768	?	Unidentified	0.021	0.019	0.013
218	113.270	9	Indan	0.438	0.331	0.351
219	113.605	11	C11-Isoparaffin-7	0.071	0.069	0.043
220	114.055	10	Indene	0.066	0.049	0.053

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221	114.837	11	C11-Isoparaffin-8	0.106	0.104	0.064
222	115.562	11	C11 IsoParaffin - 10	0.045	0.044	0.027
223	115.835	?	Unidentified	0.074	0.066	0.047
224	116.010	10	1,3-Diethylbenzene	0.187	0.158	0.132
225	116.393	10	1-Methyl-3-n-propylbenzene	0.463	0.391	0.326
226	116.967	10	1,4-Diethylbenzene	0.203	0.171	0.143
227	117.135	10	n-Butylbenzene	0.104	0.088	0.073
228	117.412	10	1,3-Dimethyl-5-ethylbenzene	0.452	0.374	0.319
229	117.783	10	1,2-Diethylbenzene	0.026	0.021	0.018
230	117.935	?	Unidentified	0.020	0.018	0.013
231	118.342	?	Unidentified	0.063	0.056	0.040
232	118.693	10	1-Methyl-2-n-propylbenzene	0.129	0.107	0.091
233	119.130	11	Octane, 2,3,7-trimethyl-	0.128	0.125	0.078
234	119.568	11	C11- Isoparaffin-15	0.129	0.126	0.078
235	119.863	?	Unidentified	0.016	0.014	0.010
236	120.165	10	1,4,Dimethyl-2-ethylbenzene	0.490	0.406	0.346
237	120.430	10	1,3-Dimethyl-4-ethylbenzene	0.436	0.362	0.308
238	120.970	10	2-Methylindan	0.162	0.122	0.116
239	121.280	10	1,2-Dimethyl-4-ethylbenzene	0.809	0.673	0.571
240	121.743	11	C11 - IsoOlefin - 2	0.023	0.023	0.014
241	122.185	11	1-Methyl-4-t-butylbenzene	0.033	0.028	0.021
242	122.457	?	Unidentified	0.012	0.010	0.007
243	122.778	?	Unidentified	0.022	0.019	0.014
244	123.335	?	Unidentified	0.020	0.018	0.013
245	123.477	11	C11 IsoParaffin - 21	0.026	0.026	0.016
246	123.827	11	1-Ethyl-3-i-propylbenzene	0.065	0.053	0.042
247	124.117	10	1,2-Dimethyl-3-ethylbenzene	0.156	0.127	0.110
248	124.875	11	n-Undecane	0.282	0.276	0.171
249	125.517	12	C12 IsoParaffin - 1	0.012	0.012	0.007
250	125.723	11	1-Ethyl-4-i-propylbenzene	0.269	0.220	0.172
251	126.192	11	1-Methyl-1-n-butylbenzene	0.355	0.290	0.227
252	127.125	12	1H-Indene,2,3-dihydro-2,2-dime	0.030	0.022	0.019
253	127.250	?	Unidentified	0.037	0.033	0.023
254	127.395	12	C12 - IsoParaffin - 3	0.031	0.030	0.017
255	128.117	11	2-Undecene, (E)-	0.043	0.042	0.029
256	128.483	10	4-Methylindan	0.529	0.433	0.379
257	128.848	?	Unidentified	0.017	0.015	0.011
258	129.038	11	Benzene, 1,3-diethyl-5-methyl-	0.105	0.086	0.067
259	129.405	11	1-methyl-4-(1-methylpropyl)be	0.217	0.178	0.139
260	129.595	?	Unidentified	0.049	0.044	0.031
261	129.808	10	2-Methylindan(1)	0.449	0.367	0.321
262	130.347	10	1,3-Dimethyl-2-ethylbenzene	0.250	0.205	0.177
263	130.705	?	Unidentified	0.013	0.011	0.008
264	130.887	?	Unidentified	0.034	0.030	0.021

Certificate of Composition  
 Part #: SD-053-090  
 FCC Treated Gasoline

ASTM D6730 with Helium Carrier

## Component List

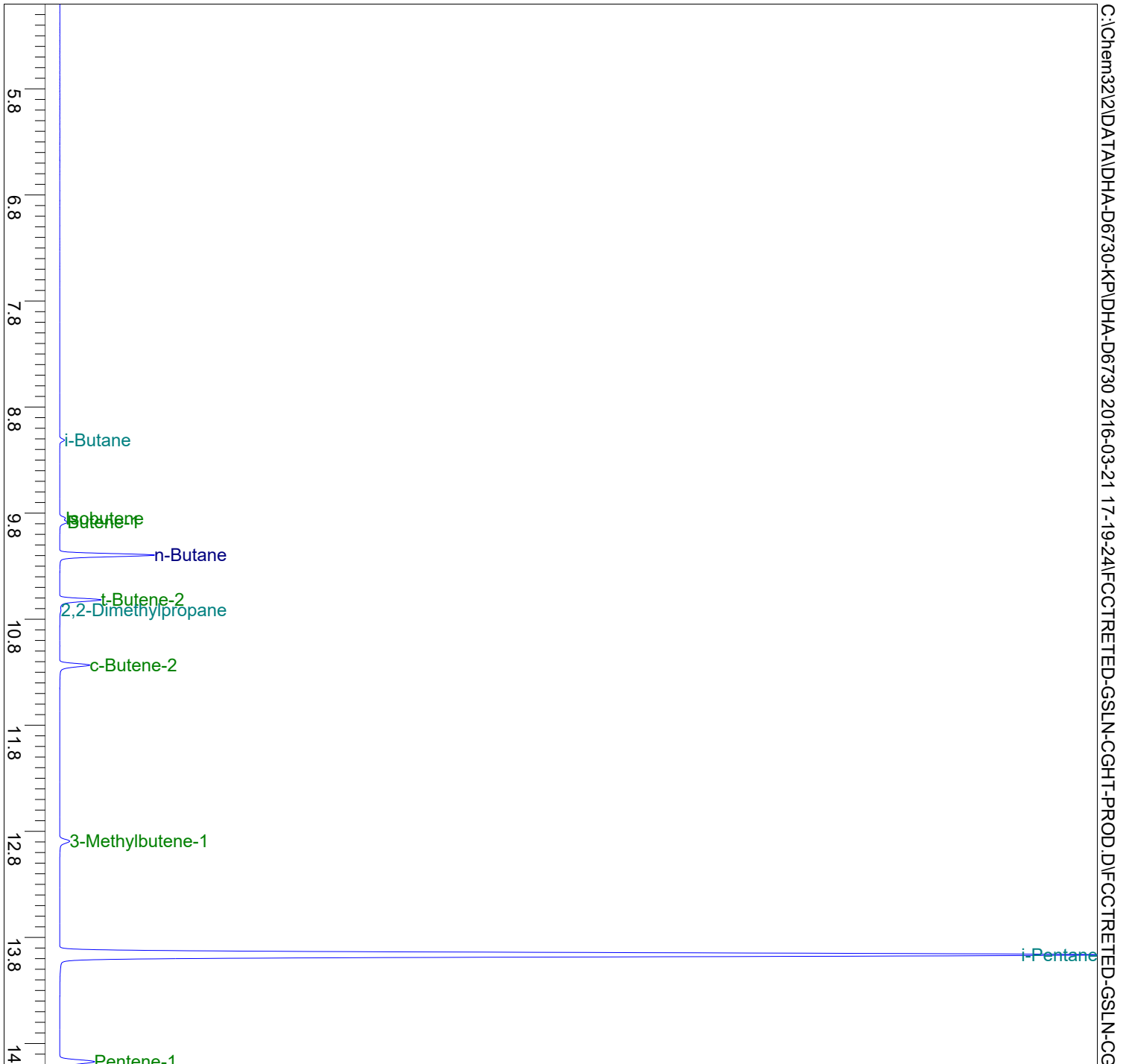
<u>Pk#</u>	<u>Time</u>	<u>C#</u>	<u>Component</u>	<u>%Wgt</u>	<u>%Vol</u>	<u>%Mol</u>
265	131.180	11	Benzene, 1-ethyl-2,4,5-trimethyl-	0.110	0.090	0.070
266	131.320	?	Unidentified	0.033	0.030	0.021
267	131.482	11	1,4-diethyl-2-methylbenzene	0.070	0.058	0.045
268	131.592	11	Benzene, 1-ethyl-3-(1-methylethyl)-	0.065	0.053	0.042
269	131.873	?	Unidentified	0.047	0.042	0.030
270	132.038	11	Benzene, (1,1-dimethylpropyl)-	0.119	0.097	0.076
271	132.270	11	2,4-diethyl-1-methylbenzene	0.091	0.075	0.058
272	132.498	11	C11 - Aromatic - 5	0.071	0.058	0.045
273	133.010	11	tert-Pentylbenzene	0.087	0.071	0.055
274	133.117	11	1,3-Diethyl-5-Methylbenzene	0.115	0.094	0.073
275	133.608	10	Naphthalene	0.300	0.213	0.222
276	133.803	12	C12-IsoParaffin-8	0.098	0.097	0.055
277	134.155	11	1H-Indene, 2,3-dihydro-1,6-dimethyl-	0.057	0.043	0.037
278	134.665	11	4,7-Dimethyl Indane	0.199	0.150	0.129
279	134.890	11	1,1-Dimethyl Indane	0.094	0.071	0.061
280	135.345	12	1t-Butyl-4-ethylbenzene	0.120	0.098	0.070
281	135.915	12	1,3-Di-n-propylbenzene	0.227	0.185	0.132
282	136.157	11	C11 - Aromatic - 11	0.073	0.062	0.047
283	137.140	12	n-Dodecane	0.184	0.177	0.102
284	137.425	?	Unidentified	0.019	0.017	0.012
285	138.335	12	C3-Indane-1	0.035	0.027	0.021
286	138.938	12	1,3,5-Triethylbenzene	0.041	0.034	0.024
287	139.167	12	1,3,5-trimethyl-2-propylbenze	0.039	0.032	0.023
288	139.888	12	Ethyl Indene - 1	0.048	0.036	0.031
289	140.137	11	C2 Indane - 1	0.034	0.026	0.022
290	140.393	12	C12 - Aromatic - 2	0.013	0.010	0.007
291	140.678	12	C3-Indane-2	0.016	0.012	0.009
292	141.173	12	C12 - Aromatic - 5	0.013	0.011	0.008
293	141.923	11	4,7-DimethylIndane	0.051	0.039	0.033
294	143.467	11	Diimethyl Indene - 2	0.008	0.006	0.005
295	146.573	11	2-Methylnaphthalene	0.007	0.005	0.005



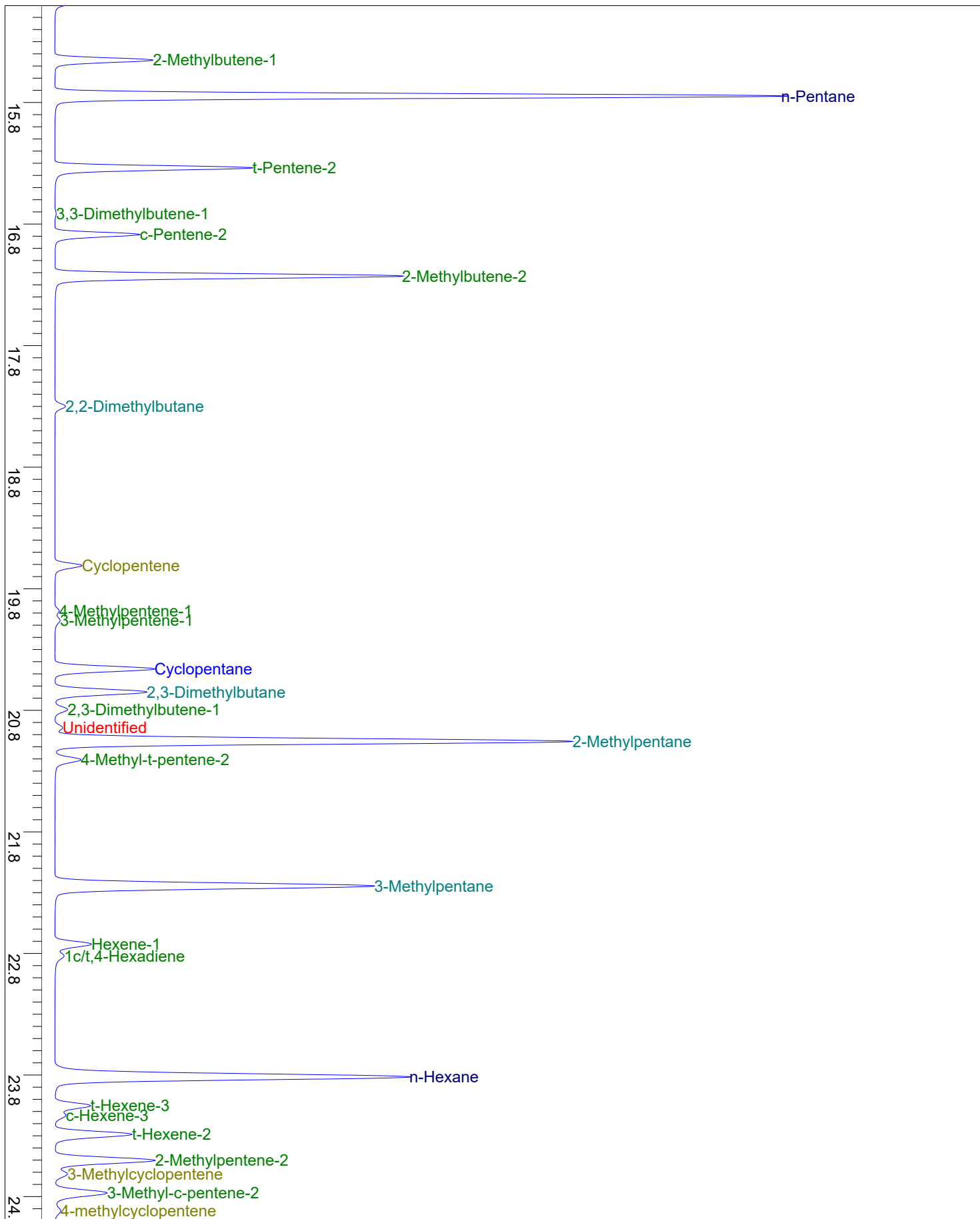
Certificate of Composition  
Part #: SD-053-090  
FCC Treated Gasoline

ASTM D6730 with Helium Carrier

### Sample Chromatogram

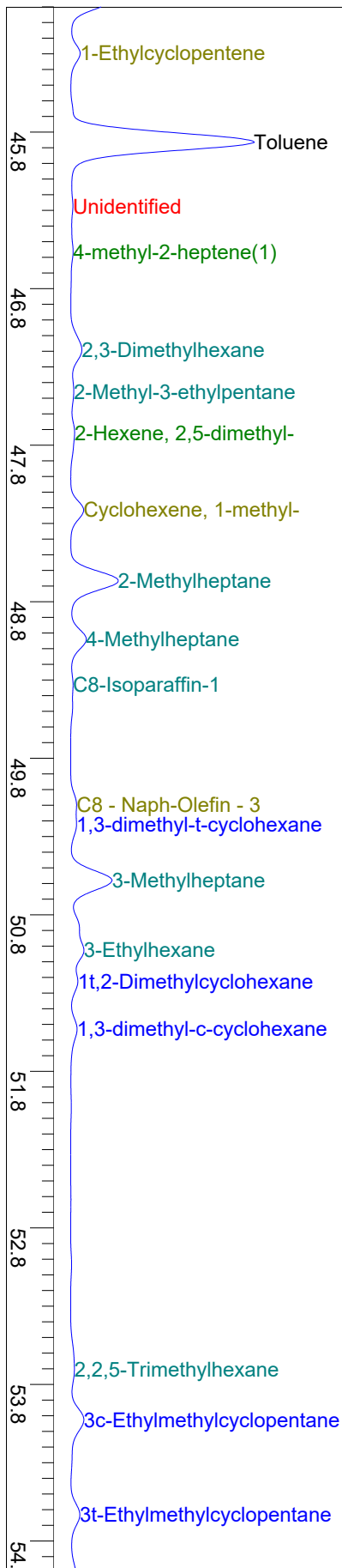


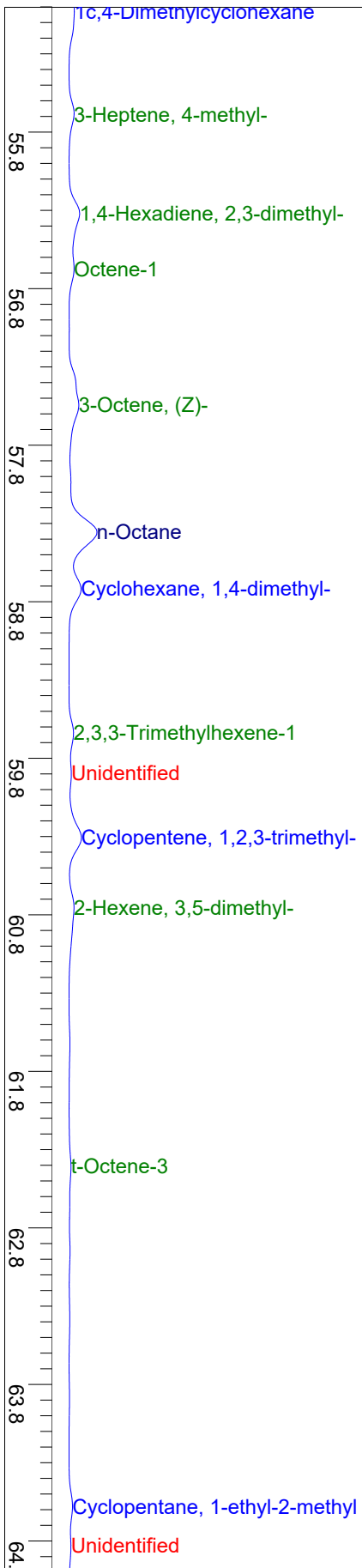
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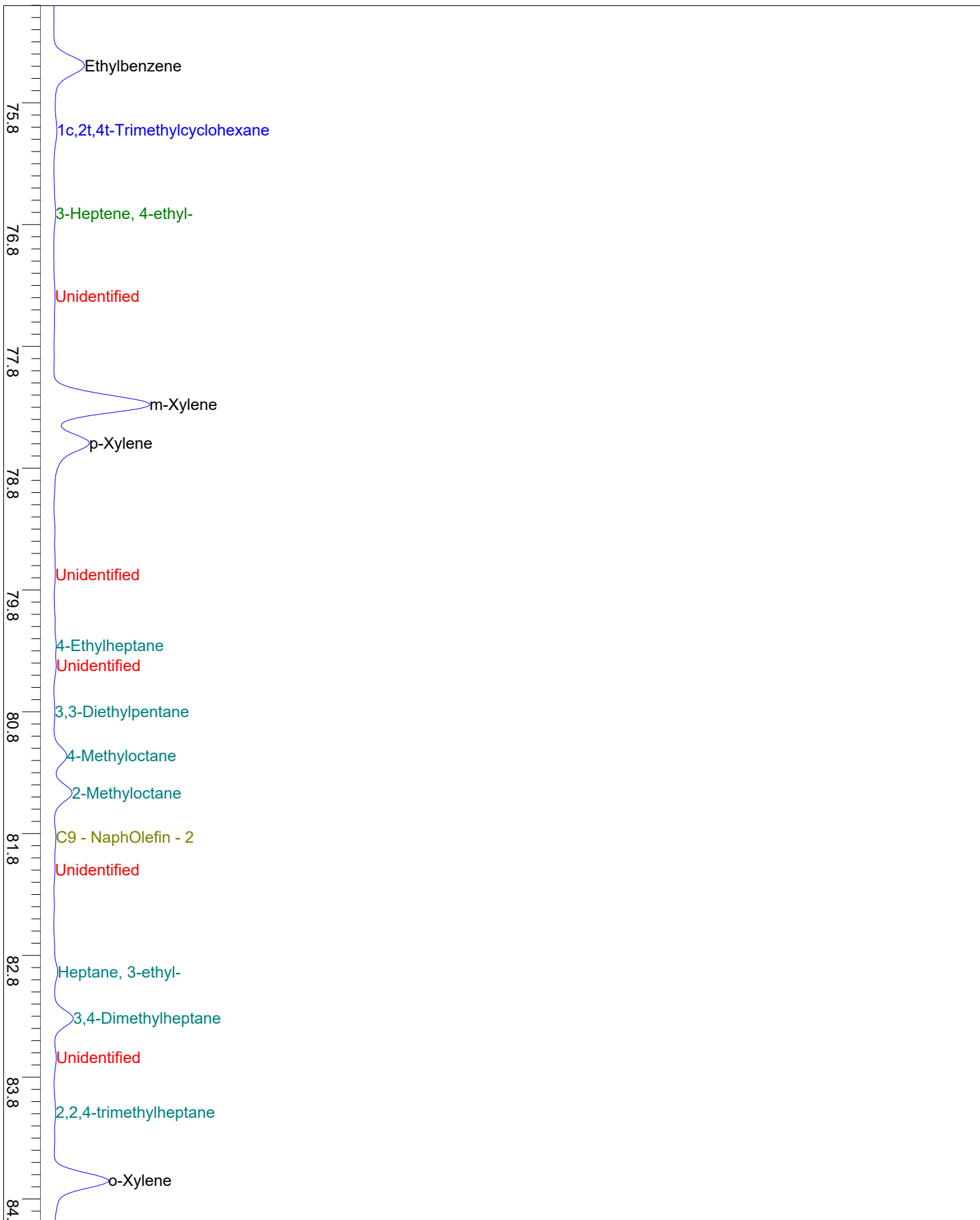




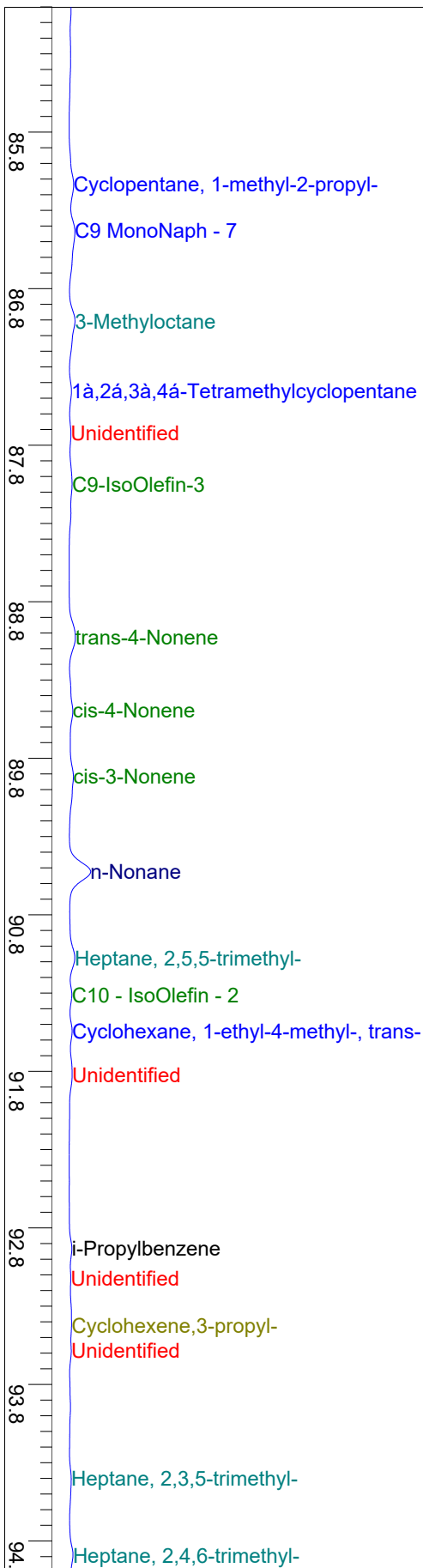


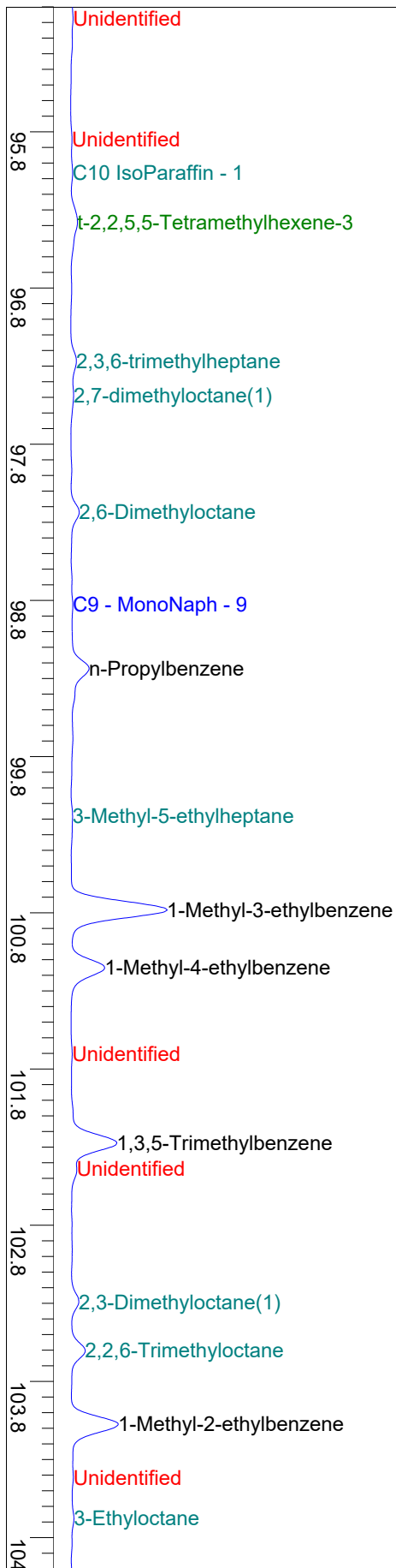




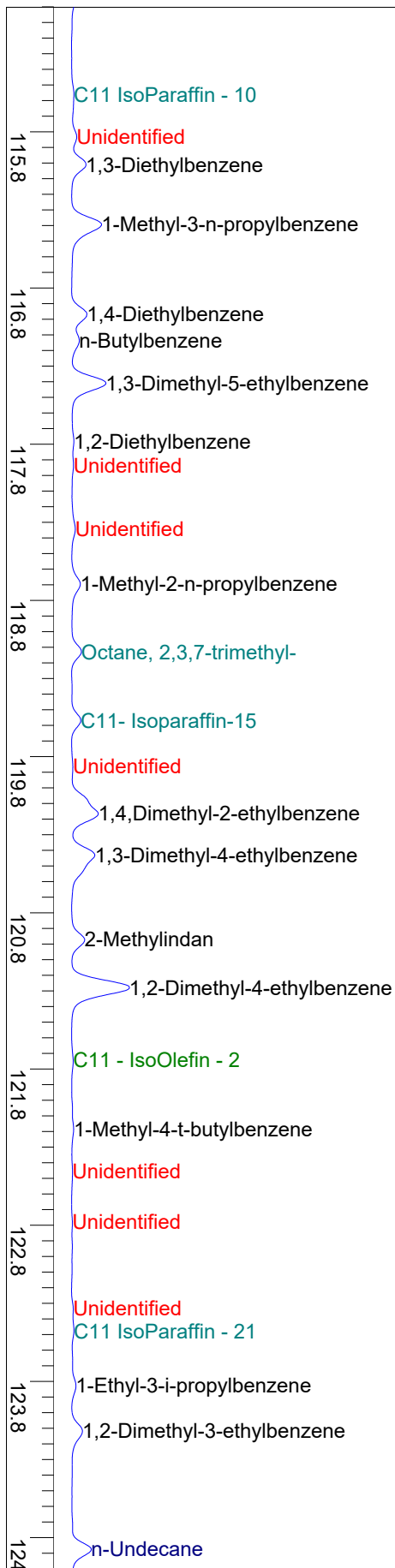




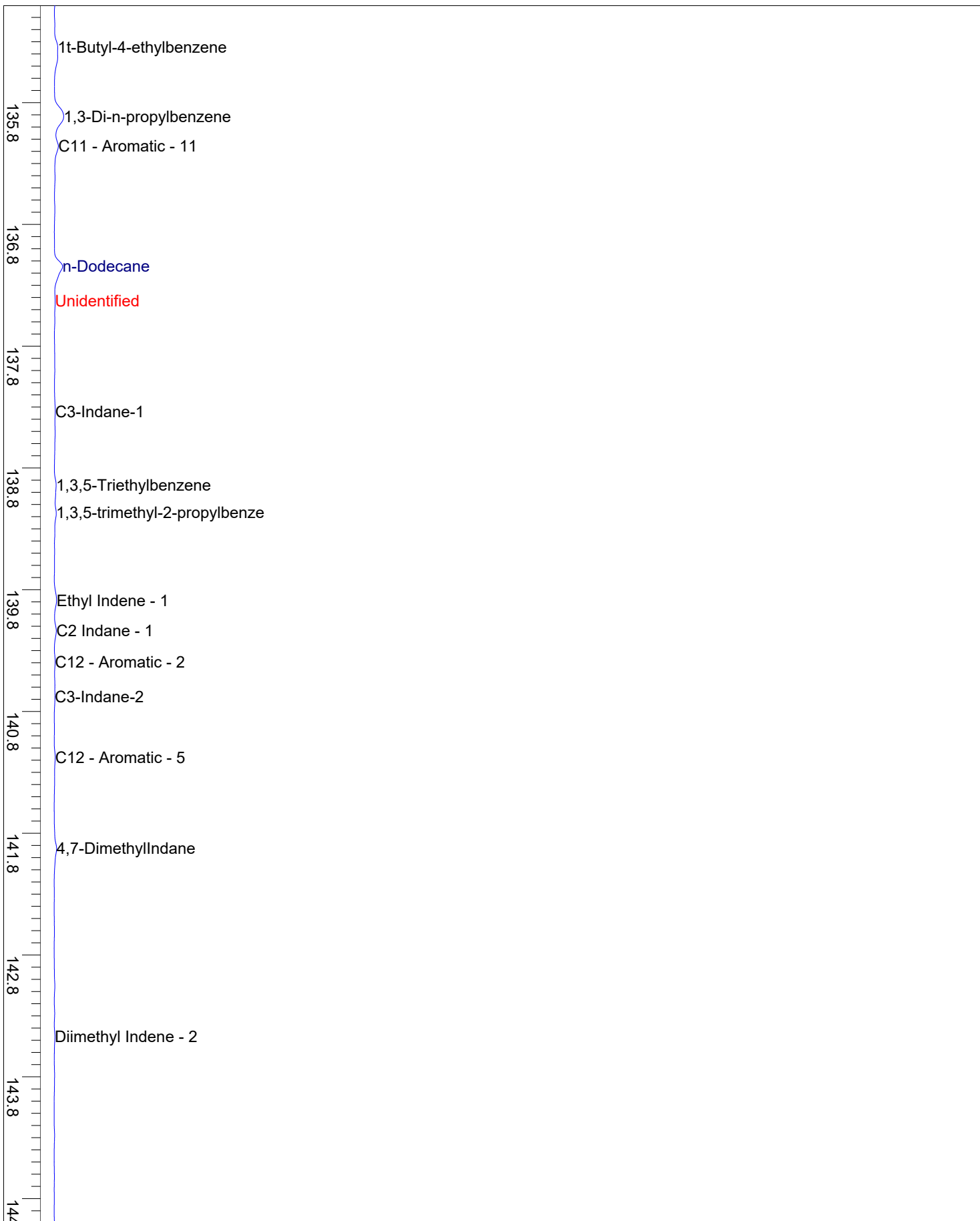












2-Methylnaphthalene

