Table S1. Listing of Major Components Found in Neat Samples of Jet Fuels (a)Jet-A LMO

Peak Identity	Area percentage
n-nonane	1.60%
2,5-dimethyloctane	1.03%
3-methylnonane	1.37%
1-ethyl-1-methylcyclohexane	1.04%
n-decane	4.46%
3,3 dimethyloctane	1.75%
5-methyldecane	1.04%
1,2,3-trimethylbenzene	1.03%
(2-methylpropyl)cyclohexane	1.02%
4 methyldecane	2.11%
2 methyldecane	1.25%
3 methyldecane	1.16%
4-ethyl-1,2-dimethylbenzene	1.30%
n-undecane	7.41%
1,2,3,5-tetramethylbenzene	2.04%
3,7-dimethyldecane	1.25%
pentylcyclohexane	1.78%
2-methylundecane	0.92%
3-methylundecane	1.30%
4-methylundecane	1.78%
2-methylundecane	1.59%
3,8 dimethyldecane	1.30%
n-dodecane	6.90%
2,6-dimethylundecane	2.83%
hexylcyclohexane	1.44%
2,6-dimethylundecane	1.65%
4-methyldodecane	1.33%
2-methyldodecane	2.61%
n-tridecane	5.60%
2-methylnaphthalene	1.19%
3-methyltridecane	1.68%
2-methyltridecane	1.35%
n-tetradecane	4.59%
4-methyltetradecane	1.29%
n-pentadecane	1.78%

(b)Jet-A WBU

Peak Identity	Area percentage
n-decane	4.16%
4-methyldecane	1.10%
1,3,5-trimethylbenzene	1.17%
1-methyl-3-propylbenzene	1.08%
decahydronaphthalene	1.99%
2-methyldecane	1.02%
3-methyldecane	1.06%
1-methyl-3-(1-methylethyl)benzene	1.33%
n-undecane	6.90%
1,2,3,5-tetramethylbenzene	1.48%
6-methylundecane	2.49%
4-methylundecane	1.10%
2-methylundecane	1.44%
1,2,3,4-tetrahydronaphthalene	2.40%
3-methylundecane	1.64%
1-methyl-3-pentylcyclohexane	1.40%
n-dodecane	7.89%
2,6-dimethylundecane	2.54%
1,2,3,4-tetrahydro-1-methylnaphthalene	1.03%
hexylcyclohexane	1.62%
2,7-dimethylundecane	1.47%
2-methyldodecane	1.54%
1,2,3,4-tetrahydro-6-methylnaphthalene	3.02%
n-tridecane	6.52%
4-methyltridecane	1.10%
2-methyltridecane	1.03%
n-tetradecane	2.81%

(c) Jet-A DIA

(c) Jet-A DIA	
Peak Identity	Area percentage
n-nonane	1.42%
1,3,5-trimethylbenzene	1.27%
n-decane	5.14%
(1-methylpropyl)benzene	1.15%
4-methyldecane	1.03%
1-methyl-3-propylbenzene	1.46%
1-methyl-3-(1-methyethyl)benzene	1.03%
n-undecane	6.16%
1,2,3,5-tetramethylbenzene	1.23%
1,2,4,5- tetramethylbenzene	1.71%
2-methylundecane	1.09%
3-methylundecane	1.59%
1-methyl-3-pentylcyclohexane	1.33%
3,8-dimethyldecane	1.14%
n-dodecane	6.15%
2,6-dimethylundecane	1.96%
hexylcyclohexane	1.41%
2,6-dimethylundecane	1.27%
2-methyldodecane	1.27%
1,2,3,4-tetrahydro-6-methylnaphthalene	2.38%
n-tridecane	5.16%
1-methylnaphthalene	1.03%
heptylcyclohexane	1.68%
2-methyltridecane	1.16%
n-tetradecane	3.76%
octylcyclohexane	1.42%
n-pentadecane	1.99%

(d) Jet-A FNL

1.89% 1.methyl-4-(1-methylethyl)cyclohexane	Peak Identity	Area percentage
1-methyl-4-(1-methylethyl)cyclohexane 1.60% n-decane 5.81% 1-methyl-2-propylbenzene 1.10% 4-methyldecane 1.63% 1,2,3-trimethylbenzene 1.60% butylcyclohexane 1.14% 1-methyl-3-propylbenzene 1.37% 4-methyldecane 2.43% 2-methyldecane 1.33% 3-methyl-3-(1-methylethyl)benzene 1.59% n-undecane 7.00% 1-methyl-4-(1-methylethyl)benzene 1.03% 1-ethyl-2,4-dimethylbenzene 1.59% 1,2,4,5-tetramethylbenzene 1.49% 3,7-dimethyldecane 1.00% 1-methyl-2-(1-methylethyl)benzene 2.37% 5-methylundecane 1.36% 2-methylundecane 1.36% 2-methylundecane 1.45% n-dodecane 6.82% 2,6-dimethylundecane 1.66% 1,2,3,4-tetrahydro-1-methylnaphthalene 1.69% 2,5-dimethylundecane 1.69% 2,5-dimethylundecane 1.69% 2,5-dimethylundecane 1.69%		
n-decane 5.81% 1-methyl-2-propylbenzene 1.10% 4-methyldecane 1.63% 1,2,3-trimethylbenzene 1.60% butylcyclohexane 1.14% 1-methyl-3-propylbenzene 1.37% 4-methyldecane 2.43% 2-methyldecane 1.33% 3-methyldecane 1.59% n-undecane 7.00% 1-methyl-3-(1-methylethyl)benzene 1.59% 1-methyl-4-(1-methylethyl)benzene 1.59% 1,2,4,5-tetramethylbenzene 1.49% 3,7-dimethyldecane 1.10% pentylcyclohexane 1.00% 1-methyl-2-(1-methylethyl)benzene 2.37% 5-methylundecane 1.36% 2-methylundecane 1.45% 1-methyl-3-pentylcyclohexane 1.45% n-dodecane 2.66% 1,2,3,4-tetrahydro-1-methylnaphthalene 1.69% 2,5-dimethylundecane 1.89% 2-methyldodecane 1.46% 1,2,3,4-tetrahydro-6-methylnaphthalene 2.65% 2,4-dimethyl-1-(1-methylethyl)benzene 0.95% <		1.60%
4-methyldecane 1.63% 1,2,3-trimethylbenzene 1.60% butylcyclohexane 1.14% 1-methyl-3-propylbenzene 1.37% 4-methyldecane 2.43% 2-methyldecane 1.33% 3-methyl-3-(1-methylethyl)benzene 1.59% n-undecane 7.00% 1-methyl-4-(1-methylethyl)benzene 1.03% 1-ethyl-2,4-dimethylbenzene 1.59% 1,2,4,5-tetramethylbenzene 1.49% 3,7-dimethyldecane 1.10% pentylcyclohexane 1.00% 1-methyl-2-(1-methylethyl)benzene 2.37% 5-methylundecane 2.34% 3-methylundecane 1.36% 2-methylundecane 1.45% n-dodecane 6.82% 2,6-dimethylundecane 1.45% n-dodecane 2.66% 1,2,3,4-tetrahydro-1-methylnaphthalene 1.08% hexylcyclohexane 1.69% 2,5-dimethylundecane 1.89% 2-methyldodecane 1.46% 1,2,3,4-tetrahydro-6-methylnapthalene 2.65% 2,4-dimethyl-1-(1-methylethyl)benzene 0.95% n-trid		5.81%
4-methyldecane 1.63% 1,2,3-trimethylbenzene 1.60% butylcyclohexane 1.14% 1-methyl-3-propylbenzene 1.37% 4-methyldecane 2.43% 2-methyldecane 1.33% 3-methyl-3-(1-methylethyl)benzene 1.59% n-undecane 7.00% 1-methyl-4-(1-methylethyl)benzene 1.03% 1-ethyl-2,4-dimethylbenzene 1.59% 1,2,4,5-tetramethylbenzene 1.49% 3,7-dimethyldecane 1.10% pentylcyclohexane 1.00% 1-methyl-2-(1-methylethyl)benzene 2.37% 5-methylundecane 2.34% 3-methylundecane 1.36% 2-methylundecane 1.45% n-dodecane 6.82% 2,6-dimethylundecane 1.45% n-dodecane 2.66% 1,2,3,4-tetrahydro-1-methylnaphthalene 1.08% hexylcyclohexane 1.69% 2,5-dimethylundecane 1.89% 2-methyldodecane 1.46% 1,2,3,4-tetrahydro-6-methylnapthalene 2.65% 2,4-dimethyl-1-(1-methylethyl)benzene 0.95% n-trid	1-methyl-2-propylbenzene	1.10%
butylcyclohexane 1.14% 1-methyl-3-propylbenzene 1.37% 4-methyldecane 2.43% 2-methyldecane 1.33% 3-methyldecane 1.59% n-undecane 7.00% 1-methyl-3-(1-methylethyl)benzene 1.03% 1-methyl-4-(1-methylethyl)benzene 1.59% 1-ethyl-2,4-dimethylbenzene 1.59% 1,2,4,5-tetramethylbenzene 1.49% 3,7-dimethyldecane 1.00% 1-methyl-2-(1-methylethyl)benzene 2.37% 5-methylundecane 1.36% 2-methylundecane 1.74% 1-methyl-3-pentylcyclohexane 1.45% n-dodecane 6.82% 2,6-dimethylundecane 1.66% 1,2,3,4-tetrahydro-1-methylnaphthalene 1.08% hexylcyclohexane 1.69% 2,5-dimethylundecane 1.89% 2-methyldodecane 1.46% 1,2,3,4-tetrahydro-6-methylnapthalene 2.65% 2,4-dimethyl-1-(1-methylethyl)benzene 0.95% n-tridecane 5.70% 4-methyltridecane 1.38%		1.63%
butylcyclohexane 1.14% 1-methyl-3-propylbenzene 1.37% 4-methyldecane 2.43% 2-methyldecane 1.33% 3-methyldecane 1.59% n-undecane 7.00% 1-methyl-3-(1-methylethyl)benzene 1.03% 1-methyl-4-(1-methylethyl)benzene 1.59% 1-ethyl-2,4-dimethylbenzene 1.59% 1,2,4,5-tetramethylbenzene 1.49% 3,7-dimethyldecane 1.00% 1-methyl-2-(1-methylethyl)benzene 2.37% 5-methylundecane 1.36% 2-methylundecane 1.74% 1-methyl-3-pentylcyclohexane 1.45% n-dodecane 6.82% 2,6-dimethylundecane 1.66% 1,2,3,4-tetrahydro-1-methylnaphthalene 1.08% hexylcyclohexane 1.69% 2,5-dimethylundecane 1.89% 2-methyldodecane 1.46% 1,2,3,4-tetrahydro-6-methylnapthalene 2.65% 2,4-dimethyl-1-(1-methylethyl)benzene 0.95% n-tridecane 5.70% 4-methyltridecane 1.38%	1,2,3-trimethylbenzene	1.60%
4-methyldecane 2.43% 2-methyldecane 1.33% 3-methyldecane 1.59% n-undecane 7.00% 1-methyl-4-(1-methylethyl)benzene 1.03% 1-ethyl-2,4-dimethylbenzene 1.59% 1,2,4,5-tetramethylbenzene 1.49% 3,7-dimethyldecane 1.10% pentylcyclohexane 1.00% 1-methyl-2-(1-methylethyl)benzene 2.37% 5-methylundecane 1.36% 2-methylundecane 1.74% 1-methyl-3-pentylcyclohexane 1.45% n-dodecane 6.82% 2,6-dimethylundecane 1.69% 1,2,3,4-tetrahydro-1-methylnaphthalene 1.69% 2,5-dimethylundecane 1.89% 2-methyldodecane 1.46% 1,2,3,4-tetrahydro-6-methylnapthalene 2.65% 2,4-dimethyl-1-(1-methylethyl)benzene 0.95% n-tridecane 5.70% 4-methyltridecane 1.38%		1.14%
2-methyldecane 1.33% 3-methyldecane 1.33% 1-methyl-3-(1-methylethyl)benzene 1.59% n-undecane 7.00% 1-methyl-4-(1-methylethyl)benzene 1.03% 1-ethyl-2,4-dimethylbenzene 1.59% 1,2,4,5-tetramethylbenzene 1.49% 3,7-dimethyldecane 1.10% pentylcyclohexane 1.00% 1-methyl-2-(1-methylethyl)benzene 2.37% 5-methylundecane 1.36% 2-methylundecane 1.74% 1-methyl-3-pentylcyclohexane 1.45% n-dodecane 6.82% 2,6-dimethylundecane 2.66% 1,2,3,4-tetrahydro-1-methylnaphthalene 1.08% hexylcyclohexane 1.69% 2,5-dimethylundecane 1.89% 2-methyldodecane 1.46% 1,2,3,4-tetrahydro-6-methylnapthalene 2.65% 2,4-dimethyl-1-(1-methylethyl)benzene 0.95% n-tridecane 5.70% 4-methyltridecane 1.38%	1-methyl-3-propylbenzene	1.37%
3-methyldecane 1.33% 1-methyl-3-(1-methylethyl)benzene 1.59% n-undecane 7.00% 1-methyl-4-(1-methylethyl)benzene 1.03% 1-ethyl-2,4-dimethylbenzene 1.59% 1,2,4,5-tetramethylbenzene 1.49% 3,7-dimethyldecane 1.10% pentylcyclohexane 1.00% 1-methyl-2-(1-methylethyl)benzene 2.37% 5-methylundecane 1.36% 2-methylundecane 1.74% 1-methyl-3-pentylcyclohexane 1.45% n-dodecane 6.82% 2,6-dimethylundecane 1.08% hexylcyclohexane 1.69% 2,5-dimethylundecane 1.69% 2,5-dimethylundecane 1.89% 2-methyldodecane 1.46% 1,2,3,4-tetrahydro-6-methylnapthalene 2.65% 2,4-dimethyl-1-(1-methylethyl)benzene 0.95% n-tridecane 5.70% 4-methyltridecane 1.38%	4-methyldecane	2.43%
1-methyl-3-(1-methylethyl)benzene 1.59% n-undecane 7.00% 1-methyl-4-(1-methylethyl)benzene 1.03% 1-ethyl-2,4-dimethylbenzene 1.59% 1,2,4,5-tetramethylbenzene 1.49% 3,7-dimethyldecane 1.10% pentylcyclohexane 1.00% 1-methyl-2-(1-methylethyl)benzene 2.37% 5-methylundecane 1.36% 2-methylundecane 1.74% 1-methyl-3-pentylcyclohexane 1.45% n-dodecane 6.82% 2,6-dimethylundecane 1.08% hexylcyclohexane 1.69% 2,5-dimethylundecane 1.69% 2,5-dimethylundecane 1.89% 2-methyldodecane 1.46% 1,2,3,4-tetrahydro-6-methylnapthalene 2.65% 2,4-dimethyl-1-(1-methylethyl)benzene 0.95% n-tridecane 5.70% 4-methyltridecane 1.38%	2-methyldecane	1.33%
n-undecane 7.00% 1-methyl-4-(1-methylethyl)benzene 1.03% 1-ethyl-2,4-dimethylbenzene 1.59% 1,2,4,5-tetramethylbenzene 1.49% 3,7-dimethyldecane 1.10% pentylcyclohexane 1.00% 1-methyl-2-(1-methylethyl)benzene 2.37% 5-methylundecane 1.36% 2-methylundecane 2.34% 3-methylundecane 1.74% 1-methyl-3-pentylcyclohexane 1.45% n-dodecane 6.82% 2,6-dimethylundecane 1.08% hexylcyclohexane 1.69% 2,5-dimethylundecane 1.89% 2-methyldodecane 1.46% 1,2,3,4-tetrahydro-6-methylnapthalene 2.65% 2,4-dimethyl-1-(1-methylethyl)benzene 0.95% n-tridecane 5.70% 4-methyltridecane 1.38%	3-methyldecane	1.33%
1-methyl-4-(1-methylethyl)benzene 1.03% 1-ethyl-2,4-dimethylbenzene 1.59% 1,2,4,5-tetramethylbenzene 1.49% 3,7-dimethyldecane 1.10% pentylcyclohexane 1.00% 1-methyl-2-(1-methylethyl)benzene 2.37% 5-methylundecane 1.36% 2-methylundecane 1.74% 1-methyl-3-pentylcyclohexane 1.45% n-dodecane 6.82% 2,6-dimethylundecane 2.66% 1,2,3,4-tetrahydro-1-methylnaphthalene 1.08% hexylcyclohexane 1.69% 2,5-dimethylundecane 1.89% 2-methyldodecane 1.46% 1,2,3,4-tetrahydro-6-methylnapthalene 2.65% 2,4-dimethyl-1-(1-methylethyl)benzene 0.95% n-tridecane 5.70% 4-methyltridecane 1.38%	1-methyl-3-(1-methylethyl)benzene	1.59%
1-ethyl-2,4-dimethylbenzene 1.59% 1,2,4,5-tetramethylbenzene 1.49% 3,7-dimethyldecane 1.10% pentylcyclohexane 1.00% 1-methyl-2-(1-methylethyl)benzene 2.37% 5-methylundecane 1.36% 2-methylundecane 1.74% 1-methyl-3-pentylcyclohexane 1.45% n-dodecane 6.82% 2,6-dimethylundecane 2.66% 1,2,3,4-tetrahydro-1-methylnaphthalene 1.08% hexylcyclohexane 1.69% 2,5-dimethylundecane 1.89% 2-methyldodecane 1.46% 1,2,3,4-tetrahydro-6-methylnapthalene 2.65% 2,4-dimethyl-1-(1-methylethyl)benzene 0.95% n-tridecane 5.70% 4-methyltridecane 1.38%	n-undecane	7.00%
1,2,4,5-tetramethylbenzene 1.49% 3,7-dimethyldecane 1.10% pentylcyclohexane 1.00% 1-methyl-2-(1-methylethyl)benzene 2.37% 5-methylundecane 1.36% 2-methylundecane 2.34% 3-methylundecane 1.74% 1-methyl-3-pentylcyclohexane 1.45% n-dodecane 6.82% 2,6-dimethylundecane 2.66% 1,2,3,4-tetrahydro-1-methylnaphthalene 1.69% 2,5-dimethylundecane 1.89% 2-methyldodecane 1.46% 1,2,3,4-tetrahydro-6-methylnapthalene 2.65% 2,4-dimethyl-1-(1-methylethyl)benzene 0.95% n-tridecane 5.70% 4-methyltridecane 1.38%	1-methyl-4-(1-methylethyl)benzene	1.03%
3,7-dimethyldecane 1.10% pentylcyclohexane 1.00% 1-methyl-2-(1-methylethyl)benzene 2.37% 5-methylundecane 1.36% 2-methylundecane 2.34% 3-methylundecane 1.74% 1-methyl-3-pentylcyclohexane 1.45% n-dodecane 6.82% 2,6-dimethylundecane 2.66% 1,2,3,4-tetrahydro-1-methylnaphthalene 1.69% 2,5-dimethylundecane 1.89% 2-methyldodecane 1.46% 1,2,3,4-tetrahydro-6-methylnapthalene 2.65% 2,4-dimethyl-1-(1-methylethyl)benzene 0.95% n-tridecane 5.70% 4-methyltridecane 1.38%	1-ethyl-2,4-dimethylbenzene	1.59%
pentylcyclohexane 1.00% 1-methyl-2-(1-methylethyl)benzene 2.37% 5-methylundecane 1.36% 2-methylundecane 2.34% 3-methylundecane 1.74% 1-methyl-3-pentylcyclohexane 1.45% n-dodecane 6.82% 2,6-dimethylundecane 2.66% 1,2,3,4-tetrahydro-1-methylnaphthalene 1.69% 2,5-dimethylundecane 1.89% 2-methyldodecane 1.46% 1,2,3,4-tetrahydro-6-methylnapthalene 2.65% 2,4-dimethyl-1-(1-methylethyl)benzene 0.95% n-tridecane 5.70% 4-methyltridecane 1.38%	1,2,4,5-tetramethylbenzene	1.49%
1-methyl-2-(1-methylethyl)benzene2.37%5-methylundecane1.36%2-methylundecane2.34%3-methylundecane1.74%1-methyl-3-pentylcyclohexane1.45%n-dodecane6.82%2,6-dimethylundecane2.66%1,2,3,4-tetrahydro-1-methylnaphthalene1.08%hexylcyclohexane1.69%2,5-dimethylundecane1.89%2-methyldodecane1.46%1,2,3,4-tetrahydro-6-methylnapthalene2.65%2,4-dimethyl-1-(1-methylethyl)benzene0.95%n-tridecane5.70%4-methyltridecane1.38%	3,7-dimethyldecane	1.10%
5-methylundecane 1.36% 2-methylundecane 2.34% 3-methylundecane 1.74% 1-methyl-3-pentylcyclohexane 1.45% n-dodecane 6.82% 2,6-dimethylundecane 2.66% 1,2,3,4-tetrahydro-1-methylnaphthalene 1.08% hexylcyclohexane 1.69% 2,5-dimethylundecane 1.89% 2-methyldodecane 1.46% 1,2,3,4-tetrahydro-6-methylnapthalene 2.65% 2,4-dimethyl-1-(1-methylethyl)benzene 0.95% n-tridecane 5.70% 4-methyltridecane 1.38%	pentylcyclohexane	1.00%
2-methylundecane 2.34% 3-methylundecane 1.74% 1-methyl-3-pentylcyclohexane 1.45% n-dodecane 6.82% 2,6-dimethylundecane 2.66% 1,2,3,4-tetrahydro-1-methylnaphthalene 1.69% 2,5-dimethylundecane 1.89% 2-methyldodecane 1.46% 1,2,3,4-tetrahydro-6-methylnapthalene 2.65% 2,4-dimethyl-1-(1-methylethyl)benzene 0.95% n-tridecane 5.70% 4-methyltridecane 1.38%	1-methyl-2-(1-methylethyl)benzene	2.37%
3-methylundecane 1.74% 1-methyl-3-pentylcyclohexane 1.45% n-dodecane 6.82% 2,6-dimethylundecane 2.66% 1,2,3,4-tetrahydro-1-methylnaphthalene 1.08% hexylcyclohexane 1.69% 2,5-dimethylundecane 1.89% 2-methyldodecane 1.46% 1,2,3,4-tetrahydro-6-methylnapthalene 2.65% 2,4-dimethyl-1-(1-methylethyl)benzene 0.95% n-tridecane 5.70% 4-methyltridecane 1.38%	5-methylundecane	1.36%
1-methyl-3-pentylcyclohexane1.45%n-dodecane6.82%2,6-dimethylundecane2.66%1,2,3,4-tetrahydro-1-methylnaphthalene1.08%hexylcyclohexane1.69%2,5-dimethylundecane1.89%2-methyldodecane1.46%1,2,3,4-tetrahydro-6-methylnapthalene2.65%2,4-dimethyl-1-(1-methylethyl)benzene0.95%n-tridecane5.70%4-methyltridecane1.38%	2-methylundecane	2.34%
n-dodecane 6.82% 2,6-dimethylundecane 2.66% 1,2,3,4-tetrahydro-1-methylnaphthalene 1.08% hexylcyclohexane 1.69% 2,5-dimethylundecane 1.89% 2-methyldodecane 1.46% 1,2,3,4-tetrahydro-6-methylnapthalene 2.65% 2,4-dimethyl-1-(1-methylethyl)benzene 0.95% n-tridecane 5.70% 4-methyltridecane 1.38%	3-methylundecane	1.74%
2,6-dimethylundecane2.66%1,2,3,4-tetrahydro-1-methylnaphthalene1.08%hexylcyclohexane1.69%2,5-dimethylundecane1.89%2-methyldodecane1.46%1,2,3,4-tetrahydro-6-methylnapthalene2.65%2,4-dimethyl-1-(1-methylethyl)benzene0.95%n-tridecane5.70%4-methyltridecane1.38%	1-methyl-3-pentylcyclohexane	1.45%
1,2,3,4-tetrahydro-1-methylnaphthalene1.08%hexylcyclohexane1.69%2,5-dimethylundecane1.89%2-methyldodecane1.46%1,2,3,4-tetrahydro-6-methylnapthalene2.65%2,4-dimethyl-1-(1-methylethyl)benzene0.95%n-tridecane5.70%4-methyltridecane1.38%	n-dodecane	6.82%
hexylcyclohexane 1.69% 2,5-dimethylundecane 1.89% 2-methyldodecane 1.46% 1,2,3,4-tetrahydro-6-methylnapthalene 2.65% 2,4-dimethyl-1-(1-methylethyl)benzene 0.95% n-tridecane 5.70% 4-methyltridecane 1.38%	2,6-dimethylundecane	2.66%
2,5-dimethylundecane1.89%2-methyldodecane1.46%1,2,3,4-tetrahydro-6-methylnapthalene2.65%2,4-dimethyl-1-(1-methylethyl)benzene0.95%n-tridecane5.70%4-methyltridecane1.38%	1,2,3,4-tetrahydro-1-methylnaphthalene	1.08%
2-methyldodecane 1.46% 1,2,3,4-tetrahydro-6-methylnapthalene 2.65% 2,4-dimethyl-1-(1-methylethyl)benzene 0.95% n-tridecane 5.70% 4-methyltridecane 1.38%	hexylcyclohexane	
1,2,3,4-tetrahydro-6-methylnapthalene2.65%2,4-dimethyl-1-(1-methylethyl)benzene0.95%n-tridecane5.70%4-methyltridecane1.38%	2,5-dimethylundecane	1.89%
2,4-dimethyl-1-(1-methylethyl)benzene0.95%n-tridecane5.70%4-methyltridecane1.38%	2-methyldodecane	1.46%
n-tridecane 5.70% 4-methyltridecane 1.38%	1,2,3,4-tetrahydro-6-methylnapthalene	2.65%
4-methyltridecane 1.38%	2,4-dimethyl-1-(1-methylethyl)benzene	0.95%
-		5.70%
n-tetradecane 3.29%	4-methyltridecane	1.38%
	n-tetradecane	3.29%

(e) Jet-A APA

1-ethyl-3-methylcyclohexane 1.02% -ethyl-3-methylbenzene 1.02% -methyl-4-(1-methylethyl)cyclohexane 1.01% -decane 4.85% -methylethylbenzene 1.57% -methylcyclohexane 1.59% -methylcyclohexane 1.59% -methylbutylcyclohexane 1.11% -methyl Decane 1.11% -methyl Decane 1.48% -methyl Decane 2.29% -methyl Decane 1.34% -methyl-3-5-dimethylbenzene 1.66% -methyl-3-(1-methylethyl)benzene 1.65% -methyl-4-(1-methylpropyl)benzene 1.54% -methyl-4-(1-methylpropyl)benzene 1.54% -methyl-4-(1-methylpropyl)benzene 1.09% -methyl-4-(1-methylpropyl)benzene 1.09% -methyl-4-(1-methylpropyl)benzene 1.28% -methyl-4-(1-methylpropyl)benzene 1.28% -methyl-4-(1-methylpropyl)benzene 1.28% -methyl-4-(1-methylcyclopentane 1.41% -methyl-4-(1-methylcyclopentane 1.68% -methyl-4-(1-methylcyclopentane 1.68% -methyl-4-(1-methylcyclopentane 1.28% -methylundecane 2.29% -methyl-1-butenylbenzene 1.68% -methyl-1-butenylbenzene 1.68% -methyl-1-butenylbenzene 1.69% -methyl-1-butenylbenzene 1.29% -methyl-1-butenylbenzene 1.29% -metridecane 1.29% -metridecane 1.30% -metridecane 1.30% -metridecane 1.30% -metridecane 1.30% -metridecane 1.29% -metridecane 1.30% -metridec	(e) Jet-A APA Peak Identity	Area percentage
1-ethyl-3-methylbenzene 1.02% 3-methylnonane 1.09% 1-methyl-4-(1-methylethyl)cyclohexane 1.01% n-decane 4.85% (1-methylethyl)benzene, 1.57% butylcyclohexane 1.59% 3,7-dimethylnonane 1.11% (1,2-dimethylbutyl)cyclohexane 0.95% 4-methyl Decane 1.48% 2-methyl Decane 2.29% 3,8-dimethyl Decane 1.34% 2-ethyl-1,4-dimethylbenzene 1.06% 1-methyl-3-(1-methylethyl)benzene 1.65% n-undecane 6.07% 1-methyl-4-(1-methylpropyl)benzene 1.15% 2-ethyl-1,4-dimethylbenzene 1.54% decahydro-2-methylnaphthalene 1.05% 1-methyl-2-(1-methylethyl)benzene 1.09% 1-methyl-4-(1-methylpropyl)benzene 2.21% 5-methylundecane 2.28% 2-isopropyl-1,3-dimethylcyclopentane 1.41% n-dodecane 2.09% (1-methyl-1-butenyl)benzene 1.07% hexylcyclohexane 2.09% (1-methyl-1-butenyl)benzene 1.57% 2,5-dimethylundecane 1.29% 1,2,3,4-tetrahydro-6-methylnapthalene 2.19% n-tridecane 2.19% 1,2,3,4-tetrahydro-6-methylnapthalene 2.19% n-tridecane 4.19%		<u> </u>
3-methylnonane 1.09% 1-methyl-4-(1-methylethyl)cyclohexane 1.01% n-decane 4.85% (1-methylethyl)benzene, 1.57% butylcyclohexane 1.59% 3,7-dimethylnonane 1.11% (1,2-dimethylbutyl)cyclohexane 0.95% 4-methyl Decane 2.29% 3,8-dimethyl Decane 2.29% 3,8-dimethyl Decane 1.34% 2-ethyl-1,4-dimethylbenzene 1.06% 1-methyl-3,5-dimethylbenzene 1.06% 1-methyl-3-(1-methylethyl)benzene 1.65% n-undecane 6.07% 1-methyl-4-(1-methylpropyl)benzene 1.15% 2-ethyl-1,4-dimethylbenzene 1.05% 1-methyl-2-(1-methylethyl)benzene 1.09% 1-methyl-4-(1-methylpropyl)benzene 1.09% 1-methyl-4-(1-methylpropyl)benzene 2.21% 5-methylundecane 2.28% 2-isopropyl-1,3-dimethylcyclopentane 1.68% 1,1,3-trimethylcyclopentane 1.68% 1,1,3-trimethylcyclopentane 1.68% 1,1,3-trimethylcyclopentane 1.07%		
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2-ethyl-1,4-dimethylbenzene 1.54% decahydro-2-methylnaphthalene 1.05% 1-methyl-2-(1-methylethyl)benzene 1.09% 1-methyl-4-(1-methylpropyl)benzene 2.21% 5-methylundecane 1.01% pentylbenzene 1.28% 2-methylundecane 2.28% 2-isopropyl-1,3-dimethylcyclopentane 1.68% 1,1,3-trimethylcyclopentane 1.41% n-dodecane 5.93% 2,6-dimethylundecane 2.09% (1-methyl-1-butenyl)benzene 1.07% hexylcyclohexane 1.57% 2,5-dimethylundecane 1.31% 2-methyldodecane 1.29% 1,2,3,4-tetrahydro-6-methylnapthalene 2.19% n-tridecane 4.19%		6.07%
2-ethyl-1,4-dimethylbenzene 1.54% decahydro-2-methylnaphthalene 1.05% 1-methyl-2-(1-methylethyl)benzene 1.09% 1-methyl-4-(1-methylpropyl)benzene 2.21% 5-methylundecane 1.01% pentylbenzene 1.28% 2-methylundecane 2.28% 2-isopropyl-1,3-dimethylcyclopentane 1.68% 1,1,3-trimethylcyclopentane 1.41% n-dodecane 5.93% 2,6-dimethylundecane 2.09% (1-methyl-1-butenyl)benzene 1.07% hexylcyclohexane 1.57% 2,5-dimethylundecane 1.31% 2-methyldodecane 1.29% 1,2,3,4-tetrahydro-6-methylnapthalene 2.19% n-tridecane 4.19%	1-methyl-4-(1-methylpropyl)benzene	1.15%
1-methyl-2-(1-methylethyl)benzene 1.09% 1-methyl-4-(1-methylpropyl)benzene 2.21% 5-methylundecane 1.01% pentylbenzene 1.28% 2-methylundecane 2.28% 2-isopropyl-1,3-dimethylcyclopentane 1.68% 1,1,3-trimethylcyclopentane 1.41% n-dodecane 5.93% 2,6-dimethylundecane 2.09% (1-methyl-1-butenyl)benzene 1.07% hexylcyclohexane 1.57% 2,5-dimethylundecane 1.31% 2-methyldodecane 1.29% 1,2,3,4-tetrahydro-6-methylnapthalene 2.19% n-tridecane 4.19%	J (J 1 1 J)	1.54%
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pentylbenzene 1.28% 2-methylundecane 2.28% 2-isopropyl-1,3-dimethylcyclopentane 1.68% 1,1,3-trimethylcyclopentane 1.41% n-dodecane 5.93% 2,6-dimethylundecane 2.09% (1-methyl-1-butenyl)benzene 1.07% hexylcyclohexane 1.57% 2,5-dimethylundecane 1.31% 2-methyldodecane 1.29% 1,2,3,4-tetrahydro-6-methylnapthalene 2.19% n-tridecane 4.19%	1-methyl-4-(1-methylpropyl)benzene	2.21%
2-methylundecane 2.28% 2-isopropyl-1,3-dimethylcyclopentane 1.68% 1,1,3-trimethylcyclopentane 1.41% n-dodecane 5.93% 2,6-dimethylundecane 2.09% (1-methyl-1-butenyl)benzene 1.07% hexylcyclohexane 1.57% 2,5-dimethylundecane 1.31% 2-methyldodecane 1.29% 1,2,3,4-tetrahydro-6-methylnapthalene 2.19% n-tridecane 4.19%	5-methylundecane	1.01%
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1,1,3-trimethylcyclopentane 1.41% n-dodecane 5.93% 2,6-dimethylundecane 2.09% (1-methyl-1-butenyl)benzene 1.07% hexylcyclohexane 1.57% 2,5-dimethylundecane 1.31% 2-methyldodecane 1.29% 1,2,3,4-tetrahydro-6-methylnapthalene 2.19% n-tridecane 4.19%	2-methylundecane	2.28%
n-dodecane 5.93% 2,6-dimethylundecane 2.09% (1-methyl-1-butenyl)benzene 1.07% hexylcyclohexane 1.57% 2,5-dimethylundecane 1.31% 2-methyldodecane 1.29% 1,2,3,4-tetrahydro-6-methylnapthalene 2.19% n-tridecane 4.19%	2-isopropyl-1,3-dimethylcyclopentane	1.68%
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2,5-dimethylundecane1.31%2-methyldodecane1.29%1,2,3,4-tetrahydro-6-methylnapthalene2.19%n-tridecane4.19%		1.07%
2-methyldodecane 1.29% 1,2,3,4-tetrahydro-6-methylnapthalene 2.19% n-tridecane 4.19%		
1,2,3,4-tetrahydro-6-methylnapthalene 2.19% n-tridecane 4.19%		1.31%
n-tridecane 4.19%		
n-tetradecane 1.30%		
	n-tetradecane	1.30%

(f) Jet-A 3602

Peak Identity	Area Percentage
n-heptane	2.79%
methylcyclohexane	2.48%
2-methylheptane	1.99%
cis-1,3-dimethylcyclohexane	2.74%
n-octane	2.54%
1,1,3-trimethylcyclohexane	1.85%
1,2,4-trimethylcyclohexane	1.71%
ethylbenzene	1.15%
xylene	2.51%
n-nonane	4.42%
3-ethyl-2-methylheptane	1.84%
1,2,3-trimethylbenzene	2.08%
1-ethyl-2-methylbenzene	1.21%
diethylcyclopentane	1.65%
1,2,3-trimethylbenzene	1.25%
n-decane	5.50%
butylcyclohexane	1.29%
1-methyl-2-(1-methylethyl)benzene	2.37%
1-methyl-2-propylbenzene	1.09%
2-ethyl-1,4-dimethylbenzene	1.42%
n-undecane	5.99%
1-methyl-2-(1-methylpropyl)benzene	1.23%
4-ethyloctane	2.85%
1,2,4,5-tetramethylbenzene	1.14%
2-methylundecane	1.83%
(1,1-dimethylpropyl)benzene	1.38%
2-isopropyl-1,3-dimethylcyclopentane	1.23%
n-dodecane	5.66%
1-ethyl-4-(1-methylethyl)benzene	2.10%
2,4-dimethyl-1-(1-methylpropyl)benzene	1.38%
(2-methylpropyl)cyclohexane	1.99%
4-methyldodecane	1.06%
(1-methyl-1-butenyl)benzene	2.23%
n-tridecane	4.33%
4-(2-butenyl)-1,2-dimethylbenzene	1.07%
n-tetradecane	2.15%

(g) Jet-A 3638

Peak Identity	Area Percentage
1,3-dimethylbenzene	1.00%
n-nonane	2.12%
3-ethyl-2-methylheptane	1.08%
4-methylnonane	1.56%
1,2,3-trimethylbenzene	1.18%
n-decane	7.17%
2,2,3,3-tetramethylhexane	2.23%
4-methyldecane	1.42%
2-methyldecane	1.29%
butylcyclohexane	1.25%
3,7-dimethylnonane	1.15%
tetramethylcyclohexane	2.35%
1-methyl-2-propylbenzene	1.51%
1-methyl-2-(1-methylethyl)benzene	1.29%
1-ethyl-3,5-dimethylbenzene	1.36%
n-undecane	9.80%
1,4-diethylbenzene	1.92%
pentylcyclohexane	1.14%
6-methylundecane	1.73%
4-methylundecane	1.37%
2-methylundecane	1.91%
3-methylundecane	1.47%
methyl-3-pentylcyclohexane	1.34%
n-dodecane	8.03%
2,6-dimethylundecane	2.33%
hexylcyclohexane	1.53%
4-ethyldecane	1.23%
4-methyldodecane	1.40%
3-methyldodecane	1.15%
1,2,3,4-tetrahydro-6-methylnaphthalene	2.56%
n-tridecane	4.91%
1-methylnaphthalene	1.09%
n-tetradecane	1.42%

(h) Jet-A 4597

Peak Identity	Area Percentage
n-nonane	1.72%
4-methylnonane	1.28%
n-decane	4.61%
1,3,5-trimethylbenzene	1.08%
butylcyclohexane	1.14%
2-methyldecane	1.29%
3-methyldecane	1.20%
1-methyl-2-(1-methylethyl)benzene	1.12%
1-methyl-2-(1-methylethyl)benzene	1.07%
n-undecane	6.80%
1,2,3,5-tetramethylbenzene	1.19%
4-methylundecane	1.93%
3-methylundecane	1.54%
1-methyl-4-(1-methylpropyl)benzene	1.73%
1-methyl-2-pentylcyclohexane	1.32%
1-methyl-3-(2-methylpropyl)cyclopentane	1.29%
n-dodecane	7.53%
2,6-dimethylundecane	2.19%
2-methyldodecane	1.50%
1,2,3,4-tetrahydro-1,2-dimethylnaphthalene	1.30%
1,2,3,4-tetrahydro-2,7-dimethylnaphthalene	1.79%
2,6-dimethylundecane	1.38%
4-methyldodecane	2.40%
n-tridecane	5.50%
2-methylnaphthalene	1.20%
2,5-dimethyldodecane	1.49%
5-butylnonene	1.11%
n-tetradecane	3.43%
n-pentadecane	1.41%

(i) Jet-A 4598

1,3-dimethylcyclohexane 3.90% 3,6-dimethyloctane 1.24% 4-methylnonane 1.65% 1,1-dimethylcyclohexane 1.10% n-decane 3.15% 4-methyldecane 1.08% 1,2,4-trimethylbenzene 1.09% 1-ethyl-2,4-dimethylbenzene 1.21% n-undecane 2.75% decahydro-2-methylnaphthanene 1.10% 2-ethyl-1,4-dimethylbenzene 1.72% 2-methylundecane 1.31% n-dodecane 3.41% 2,6-dimethylundecane 1.04% 1,2,3,4-tetrahydro-2-methylnaphthalene 1.25% hexylcyclohexane 1.50% 4-methyldodecane 2.28% 2,6-dimethyloctane 1.64% n-tridecane 3.92% 1,2,3,4-tetrahydro-1,4-dimethylnaphthalene 1.50% 1,2,3,4-tetrahydro-1,6,8-trimethylnaphthalene 1.83% 3,5-dimethyldodecane 1.00% 4,6-dimethyldodecane 1.00%
4-methylnonane 1.65% 1,1-dimethylcyclohexane 1.10% n-decane 3.15% 4-methyldecane 1.08% 1,2,4-trimethylbenzene 1.09% 1-ethyl-2,4-dimethylbenzene 1.21% n-undecane 2.75% decahydro-2-methylnaphthanene 1.10% 2-ethyl-1,4-dimethylbenzene 1.72% 2-methylundecane 1.31% n-dodecane 3.41% 2,6-dimethylundecane 2.03% 2,4-dimethylundecane 1.04% 1,2,3,4-tetrahydro-2-methylnaphthalene 1.50% 4-methyldodecane 1.17% 2-methyldodecane 2.28% 2,6-dimethyloctane 1.64% n-tridecane 3.92% 1,2,3,4-tetrahydro-1,4-dimethylnaphthalene 1.50% 1,2,3,4-tetradydro-1,6,8-trimethylnaphthalene 1.83% 3,5-dimethyldodecane 1.00%
1,1-dimethylcyclohexane 1.10% n-decane 3.15% 4-methyldecane 1.08% 1,2,4-trimethylbenzene 1.09% 1-ethyl-2,4-dimethylbenzene 1.21% n-undecane 2.75% decahydro-2-methylnaphthanene 1.10% 2-ethyl-1,4-dimethylbenzene 1.72% 2-methylundecane 1.31% n-dodecane 3.41% 2,6-dimethylundecane 2.03% 2,4-dimethylundecane 1.04% 1,2,3,4-tetrahydro-2-methylnaphthalene 1.25% hexylcyclohexane 1.50% 4-methyldodecane 2.28% 2,6-dimethyloctane 1.64% n-tridecane 3.92% 1,2,3,4-tetrahydro-1,4-dimethylnaphthalene 1.50% 1,2,3,4-tetradydro-1,6,8-trimethylnaphthalene 1.83% 3,5-dimethyldodecane 1.00%
n-decane 3.15% 4-methyldecane 1.08% 1,2,4-trimethylbenzene 1.09% 1-ethyl-2,4-dimethylbenzene 1.21% n-undecane 2.75% decahydro-2-methylnaphthanene 1.10% 2-ethyl-1,4-dimethylbenzene 1.72% 2-methylundecane 1.31% n-dodecane 3.41% 2,6-dimethylundecane 2.03% 2,4-dimethylundecane 1.04% 1,2,3,4-tetrahydro-2-methylnaphthalene 1.25% hexylcyclohexane 1.50% 4-methyldodecane 2.28% 2,6-dimethyloctane 1.64% n-tridecane 3.92% 1,2,3,4-tetrahydro-1,4-dimethylnaphthalene 1.50% 1,2,3,4-tetradydro-1,6,8-trimethylnaphthalene 1.83% 3,5-dimethyldodecane 1.00%
4-methyldecane 1.08% 1,2,4-trimethylbenzene 1.09% 1-ethyl-2,4-dimethylbenzene 1.21% n-undecane 2.75% decahydro-2-methylnaphthanene 1.10% 2-ethyl-1,4-dimethylbenzene 1.72% 2-methylundecane 1.31% n-dodecane 3.41% 2,6-dimethylundecane 2.03% 2,4-dimethylundecane 1.04% 1,2,3,4-tetrahydro-2-methylnaphthalene 1.25% hexylcyclohexane 1.17% 2-methyldodecane 2.28% 2,6-dimethyloctane 1.64% n-tridecane 3.92% 1,2,3,4-tetrahydro-1,4-dimethylnaphthalene 1.50% 1,2,3,4-tetradydro-1,6,8-trimethylnaphthalene 1.83% 3,5-dimethyldodecane 1.00%
1,2,4-trimethylbenzene 1.09% 1-ethyl-2,4-dimethylbenzene 1.21% n-undecane 2.75% decahydro-2-methylnaphthanene 1.10% 2-ethyl-1,4-dimethylbenzene 1.72% 2-methylundecane 1.31% n-dodecane 3.41% 2,6-dimethylundecane 2.03% 2,4-dimethylundecane 1.04% 1,2,3,4-tetrahydro-2-methylnaphthalene 1.25% hexylcyclohexane 1.50% 4-methyldodecane 2.28% 2,6-dimethyloctane 1.64% n-tridecane 3.92% 1,2,3,4-tetrahydro-1,4-dimethylnaphthalene 1.50% 1,2,3,4-tetradydro-1,6,8-trimethylnaphthalene 1.83% 3,5-dimethyldodecane 1.00%
1,2,4-trimethylbenzene 1.09% 1-ethyl-2,4-dimethylbenzene 1.21% n-undecane 2.75% decahydro-2-methylnaphthanene 1.10% 2-ethyl-1,4-dimethylbenzene 1.72% 2-methylundecane 1.31% n-dodecane 3.41% 2,6-dimethylundecane 2.03% 2,4-dimethylundecane 1.04% 1,2,3,4-tetrahydro-2-methylnaphthalene 1.25% hexylcyclohexane 1.50% 4-methyldodecane 2.28% 2,6-dimethyloctane 1.64% n-tridecane 3.92% 1,2,3,4-tetrahydro-1,4-dimethylnaphthalene 1.50% 1,2,3,4-tetradydro-1,6,8-trimethylnaphthalene 1.83% 3,5-dimethyldodecane 1.00%
1-ethyl-2,4-dimethylbenzene 1.21% n-undecane 2.75% decahydro-2-methylnaphthanene 1.10% 2-ethyl-1,4-dimethylbenzene 1.72% 2-methylundecane 1.31% n-dodecane 3.41% 2,6-dimethylundecane 2.03% 2,4-dimethylundecane 1.04% 1,2,3,4-tetrahydro-2-methylnaphthalene 1.25% hexylcyclohexane 1.50% 4-methyldodecane 2.28% 2,6-dimethyloctane 1.64% n-tridecane 3.92% 1,2,3,4-tetrahydro-1,4-dimethylnaphthalene 1.50% 1,2,3,4-tetradydro-1,6,8-trimethylnaphthalene 1.83% 3,5-dimethyldodecane 1.00%
decahydro-2-methylnaphthanene 1.10% 2-ethyl-1,4-dimethylbenzene 1.72% 2-methylundecane 1.31% n-dodecane 3.41% 2,6-dimethylundecane 2.03% 2,4-dimethylundecane 1.04% 1,2,3,4-tetrahydro-2-methylnaphthalene 1.25% hexylcyclohexane 1.50% 4-methyldodecane 2.28% 2,6-dimethyloctane 1.64% n-tridecane 3.92% 1,2,3,4-tetrahydro-1,4-dimethylnaphthalene 1.50% 1,2,3,4-tetradydro-1,6,8-trimethylnaphthalene 1.83% 3,5-dimethyldodecane 1.00%
2-ethyl-1,4-dimethylbenzene 1.72% 2-methylundecane 1.31% n-dodecane 3.41% 2,6-dimethylundecane 2.03% 2,4-dimethylundecane 1.04% 1,2,3,4-tetrahydro-2-methylnaphthalene 1.25% hexylcyclohexane 1.50% 4-methyldodecane 2.28% 2-methyldodecane 2.28% 2,6-dimethyloctane 1.64% n-tridecane 3.92% 1,2,3,4-tetrahydro-1,4-dimethylnaphthalene 1.50% 1,2,3,4-tetradydro-1,6,8-trimethylnaphthalene 1.83% 3,5-dimethyldodecane 1.00%
2-ethyl-1,4-dimethylbenzene 1.72% 2-methylundecane 1.31% n-dodecane 3.41% 2,6-dimethylundecane 2.03% 2,4-dimethylundecane 1.04% 1,2,3,4-tetrahydro-2-methylnaphthalene 1.25% hexylcyclohexane 1.50% 4-methyldodecane 2.28% 2-methyldodecane 2.28% 2,6-dimethyloctane 1.64% n-tridecane 3.92% 1,2,3,4-tetrahydro-1,4-dimethylnaphthalene 1.50% 1,2,3,4-tetradydro-1,6,8-trimethylnaphthalene 1.83% 3,5-dimethyldodecane 1.00%
n-dodecane 3.41% 2,6-dimethylundecane 2.03% 2,4-dimethylundecane 1.04% 1,2,3,4-tetrahydro-2-methylnaphthalene 1.25% hexylcyclohexane 1.50% 4-methyldodecane 2.28% 2-methyldodecane 2.28% 2,6-dimethyloctane 1.64% n-tridecane 3.92% 1,2,3,4-tetrahydro-1,4-dimethylnaphthalene 1.50% 1,2,3,4-tetradydro-1,6,8-trimethylnaphthalene 1.83% 3,5-dimethyldodecane 1.00%
2,6-dimethylundecane 2.03% 2,4-dimethylundecane 1.04% 1,2,3,4-tetrahydro-2-methylnaphthalene 1.25% hexylcyclohexane 1.50% 4-methyldodecane 2.28% 2-methyldodecane 2.28% 2,6-dimethyloctane 1.64% n-tridecane 3.92% 1,2,3,4-tetrahydro-1,4-dimethylnaphthalene 1.50% 1,2,3,4-tetradydro-1,6,8-trimethylnaphthalene 1.83% 3,5-dimethyldodecane 1.00%
2,4-dimethylundecane 1.04% 1,2,3,4-tetrahydro-2-methylnaphthalene 1.25% hexylcyclohexane 1.50% 4-methyldodecane 1.17% 2-methyldodecane 2.28% 2,6-dimethyloctane 1.64% n-tridecane 3.92% 1,2,3,4-tetrahydro-1,4-dimethylnaphthalene 1.50% 1,2,3,4-tetradydro-1,6,8-trimethylnaphthalene 1.83% 3,5-dimethyldodecane 1.00%
1,2,3,4-tetrahydro-2-methylnaphthalene1.25%hexylcyclohexane1.50%4-methyldodecane1.17%2-methyldodecane2.28%2,6-dimethyloctane1.64%n-tridecane3.92%1,2,3,4-tetrahydro-1,4-dimethylnaphthalene1.50%1,2,3,4-tetradydro-1,6,8-trimethylnaphthalene1.83%3,5-dimethyldodecane1.00%
hexylcyclohexane 4-methyldodecane 1.17% 2-methyldodecane 2.28% 2,6-dimethyloctane 1.64% n-tridecane 3.92% 1,2,3,4-tetrahydro-1,4-dimethylnaphthalene 1,2,3,4-tetradydro-1,6,8-trimethylnaphthalene 3,5-dimethyldodecane 1.00%
4-methyldodecane1.17%2-methyldodecane2.28%2,6-dimethyloctane1.64%n-tridecane3.92%1,2,3,4-tetrahydro-1,4-dimethylnaphthalene1.50%1,2,3,4-tetradydro-1,6,8-trimethylnaphthalene1.83%3,5-dimethyldodecane1.00%
2-methyldodecane2.28%2,6-dimethyloctane1.64%n-tridecane3.92%1,2,3,4-tetrahydro-1,4-dimethylnaphthalene1.50%1,2,3,4-tetradydro-1,6,8-trimethylnaphthalene1.83%3,5-dimethyldodecane1.00%
2,6-dimethyloctane1.64%n-tridecane3.92%1,2,3,4-tetrahydro-1,4-dimethylnaphthalene1.50%1,2,3,4-tetradydro-1,6,8-trimethylnaphthalene1.83%3,5-dimethyldodecane1.00%
n-tridecane 3.92% 1,2,3,4-tetrahydro-1,4-dimethylnaphthalene 1.50% 1,2,3,4-tetradydro-1,6,8-trimethylnaphthalene 1.83% 3,5-dimethyldodecane 1.00%
1,2,3,4-tetrahydro-1,4-dimethylnaphthalene1.50%1,2,3,4-tetradydro-1,6,8-trimethylnaphthalene1.83%3,5-dimethyldodecane1.00%
1,2,3,4-tetradydro-1,6,8-trimethylnaphthalene 1.83% 3,5-dimethyldodecane 1.00%
3,5-dimethyldodecane 1.00%
<u> </u>
4.6-dimethyldodecane
1.0070
1,1,3-trimethyl-2-(3-methylpentyl)cyclohexane 1.60%
n-tetradecane 3.47%
4,8-dimethyltridecane 1.33%
2,3-dimethylnaphthalene 1.22%
1,2,3,4-tetrahydro-2,5,8-trimethylnaphthalene 1.37%
3-methyltetradecane 2.28%
5-methyl-5-propylnonane 1.02%
1,2,3,4-tetrahydro-2,5,8-trimethylnaphthalene 1.02%
n-pentadecane 2.62%
2,3,6-trimethylnaphthalene 1.02%
3-methylpentadecane 1.53%
n-hexadecane 1.58%

(J) Jet-A 4599

Peak Identity	Area percentage
n-decane	1.16%
n-undecane	3.10%
4-ethyl-1,2-dimethylbenzene	1.04%
2-methylundecane	1.35%
n-dodecane	4.28%
1,2,3,4-tetrahydro-5-methylnaphthalene	1.05%
3-methyldodecane	1.12%
4-methyldodecane	1.74%
1,1,3,3-tetramethylbenzene	1.05%
4-methyldodecane	1.03%
n-tridecane	4.72%
1,2,3,4-tetrahydro-6,7-dimethylnaphthalene	1.30%
1,2,3,4-tetrahydro-1,4-dimethylnaphthalene	1.02%
5-ethylundecane	1.08%
3-methyltridecane	1.20%
4,6-methyldodecane	1.23%
n-tetradecane	4.31%
1,4-dimethylnaphthalene	1.15%
2,7-dimethylnaphthalene	1.00%
cyclotetradecane	1.12%
2,6,10-trimethyldodecane	1.07%
4-methyl-1,1-biphenyl	1.08%
n-pentadecane	3.76%
7-methylpentadecane	1.01%
2,6,11-trimethyldodecane	1.20%
n-hexadecane	2.99%

(k) Jet-A 4600

(k) Jet-A 4600	
Peak Identity	Area percentage
n-octane	1.25%
n-nonane	1.17%
n-decane	1.91%
3-methyldecane,	1.82%
ethyldimethylbenzene	1.02%
n-undecane	3.51%
1-ethyl-3,5-dimethylbenzene	1.08%
1-methyl-4-(1-methylpropyl)benzene	1.87%
1,2,3,4-tetrahydronaphthalene	1.15%
2-methylundecane	1.34%
n-dodecane	2.92%
2,6-dimethylundecane	1.06%
1,4-dimethyl-2-(2-methylpropyl)benzene	1.50%
1-tridecene	1.11%
n-tridecane	3.34%
1,4-dimethylnaphthalene	1.35%
1,2,3,4-tetrahydro-1,4-dimethylnapthalene	1.25%
4,6-dimethyldodecane	1.13%
n-tetradecane	3.32%
2,7-dimethylnapthalene	2.22%
1,3-dimethylnapthalene	1.40%
2,7-dimethylnapthalene	1.34%
3,5-dimethyldodecane	1.07%
n-pentadecane	2.82%
6-propyltridecane	1.14%
3-methylpentadecane	1.16%
n-hexadecane	2.29%

(1) Jet-A 4658

Peak Identity	Area percentage
n-nonane	2.43%
3,6-dimethyloctane	1.55%
propylbenzene	1.90%
1-ethyl-2-methylbenzene	2.15%
1,2,3-trimethylbenzene	1.12%
n-decane	4.60%
4-methyldecane	1.69%
1,3,5-trimethylbenzene	1.10%
1-methyl-3-(1-methylethyl)benzene	2.69%
2-methyldecane	1.16%
3-methyldecane	1.22%
1-ethyl-2,4-dimethylbenzene	1.06%
n-undecane	5.46%
2-ethyl-1,4-dimethylbenzene	1.06%
1-methyl-4-(1-methylpropyl)benzene	1.80%
4-methylundecane	1.35%
2-methylundecane	1.84%
1,2,3,4-tetrahydronaphthalene	1.00%
n-dodecane	6.23%
(1-methyl-1-butenyl)benzene	2.12%
2,4-dimethylundecane	1.30%
2-butyl-1,1,3-trimethylcyclohexane	1.19%
(2-methylpropyl)cyclohexane	1.55%
4-methyldodecane	1.27%
2-methyldodecane	2.43%
n-tridecane	5.58%
heptylcyclohexane	1.64%
2,6,10-trimethyldodecane	1.03%
n-tetradecane	3.57%
octylcyclohexane	1.37%
n-pentadecane	1.96%

(m) Jet-A 4877

Peak Identity	Area percentage
n-decane	1.25%
1-ethyl-2,4-dimethylbenzene	1.18%
n-undecane	4.98%
3,7-dimethyldecane	1.66%
(2-methyl-1-propenyl)benzene	1.31%
1,2,3,4-tetramethylbenzene	1.01%
5-methylundecane	1.77%
4-methylundecane	1.22%
3-methylundecane	1.65%
1,2,3,4-tetrahydronaphthalene	2.20%
3-methylundecane	1.72%
1-methyl-4-(1-methylpropyl)benzene	1.05%
n-dodecane	8.08%
2,6-dimethylundecane	1.50%
1,2,3-tetramethylcyclohexane	1.92%
1,2,3,4-tetrahydro-6-methylnaphthalene	1.14%
pentamethylbenzene	1.39%
hexylcyclohexane	1.47%
4-methyldodecane	1.77%
2-methyldodecane	1.16%
1,2,3,4-tetrahydro-5-methylnaphthalene	2.52%
3-methylundecane,	1.86%
1,2,3,4-tetrahydro-5-methylnaphthalene	1.57%
n-tridecane	7.51%
2-methylnaphthalene,	2.34%
1,2,3,4-tetrahydro-5,7-dimethylnapthalene	1.75%
octylcyclohexane	1.19%
6-methyltridecane	1.25%
2-methyltridecane	1.15%
3-methyltridecane	1.61%
n-tetradecane	4.52%
2,6 dimethylnapthalene	1.14%
2,6,11-trimethyldodecane,	1.29%
1,7-dimethylnaphthalene,	1.00%
n-pentadecane	1.64%

(n)Jet-A 5237

Peak Identity	Area percentage
1-methyl-2-(1-methylethyl)benzene	2.18%
n-undecane	3.37%
1,2,3,4-tetramethylbenzene	1.39%
1,2,3,4-tetramethylbenzene	1.22%
1,2,3,4-tetramethylbenzene	1.72%
4-methylundecane	1.87%
2-methylundecane	2.05%
3-methylundecane	1.47%
(2-methyl-1-butenyl)benzene	3.39%
n-dodecane	6.02%
2,6-dimethylundecane	1.41%
2-butyl-1,1,3-trimethylcyclohexane	1.75%
1,2,3,4-tetrahydro-5-methyl naphthalene	1.05%
1,3-dimethyl-5-(1-methylethyl)benzene	1.47%
6-ethylundecane	1.48%
4-methyldodecane	2.05%
2-methyldodecane	1.37%
2-methyldodecane	2.24%
3-methyldodecane	1.39%
2-ethyl-1,4-dimethylbenzene,	1.29%
2,4-dimethyl-1-(1-methylpropyl)benzene	2.91%
n-tridecane	5.81%
2-methylnaphthalene	2.17%
1,2,3,4-tetrahydro-5,7-dimethylnaphthalene	1.67%
(2,4-dimethylpentyl)benzene	1.08%
heptylcyclohexane	1.26%
6-methyltridecane	1.13%
4-methyltridecane	1.04%
2-methyltridecane	1.39%
3-methyltridecane	2.01%
n-tetradecane	3.20%
n-pentadecane	1.26%

(o) Jet-A 5245

n-decane 1-methyl-4-propylbenzene	a percentage 1.07%
`	1.05%
3-methyldecane	0.77%
n-undecane	3.98%
1-methyl-2-(1-methylethyl)benzene	1.18%
decahydro-2-methylnapthalene	1.13%
3,7-dimethyldecane	0.83%
4-ethyl-1,2-dimethylbenzene	1.11%
1,2,3,4-tetrahydronaphthalene	1.38%
2-methylundecane	1.22%
n-dodecane	4.68%
2,6-dimethylundecane	1.19%
5-methyldodecane	1.18%
2-methyldodecane	1.73%
1,2,3,4-tetrahydro-6-methylnaphthalene	1.13%
cyclotridecane	1.24%
n-tridecane	5.83%
1,2,3,4-tetrahydro-1,4-dimethylnaphthalene	2.08%
4-(2-butenyl)-1,2-dimethylbenzene	1.38%
6-methyltridecane	1.12%
4-methyl tridecane	1.14%
2,5-dimethyldodecane	1.18%
3-methyl-5-propylnonane	2.55%
n-tetradecane	5.72%
4,8-dimethyltridecane	1.63%
2,6,11-trimethyldodecane	1.00%
2,6,10-trimethyldodecane	2.03%
2-methylpropylcyclohexane	1.78%
4-methyltetradecane	1.18%
1-pentadecene	1.80%
n-pentadecane	4.16%
2-methylpentadecane	1.07%
2-methylpentadecane	1.05%
n-hexadecane	2.07%

(p)Jet-A 5677

Peak Identity	Area percentage
n-decane	1.29%
1-ethyl-3,5-dimethylbenzne	1.20%
n-undecane	4.32%
1,2,3,4-tetramethylbenzene	1.21%
3,7-dimethyldecane	1.17%
1,2,3,4-tetramethylbenzene	1.15%
1,2,3,4-tetrahydronaphthalene	1.35%
2-methylundecane	1.19%
n-dodecane	4.49%
2,6-dimethylundecane,	1.08%
4-methyldodecane	1.06%
2-methyldodecane	1.56%
1,2,3,4-tetrahydro-6-methylnaphthalene	1.04%
cyclotridecane	1.17%
n-tridecane	5.25%
1,2,3,4-tetrahydro-1,4-dimethylnaphthalene	1.88%
1,2,3,4-tetradydro-6,7-dimethylnaphthalene	1.02%
6-methyltridecane	1.02%
2-methyltridecane	1.08%
3-methyltridecane	2.32%
n-tetradecane	5.29%
5-methyltetradecane	1.49%
2,6,11-trimethyldodecane	1.75%
1-(2-butenyl)-2,3-dimethylbenzene	1.65%
3-methyl-5-propylnonane	1.12%
2,6,10-trimethyldodecane	1.73%
n-pentadecane	4.16%
6,9-dimethyltetradecane	1.05%
nonylcyclohexane	1.04%
6-propyltridecane	1.14%
n-hexadecane	2.49%

(q)Jet-A 5916

2-methylundecane1.3-methylundecane1.1,2,3,4-tetrahydronaphthalene0.n-dodecane3.2,6-dimethylundecane1.2-butyl-1,1,3-trimethylcyclohexane1.hexylcyclohexane1.2,6-dimethylundecane1.1,2,3,4-tetrahydro-5-methylnaphthalene1.2,6-dimethyloctane1.1-ethyl-4-methylcyclohexane1.1-methylnaphthalene1.	24% 26% 09% 88% 67% 14% 17% 06% 32% 20%
3-methylundecane 1,2,3,4-tetrahydronaphthalene 0. n-dodecane 2,6-dimethylundecane 2-butyl-1,1,3-trimethylcyclohexane 1. hexylcyclohexane 1. 2,6-dimethylundecane 1. 1,2,3,4-tetrahydro-5-methylnaphthalene 2,6-dimethyloctane 1. 1-ethyl-4-methylcyclohexane 1. 1-methylnaphthalene 1.	09% 88% 67% 14% 17% 06% 32%
1,2,3,4-tetrahydronaphthalene0.n-dodecane3.2,6-dimethylundecane1.2-butyl-1,1,3-trimethylcyclohexane1.hexylcyclohexane1.2,6-dimethylundecane1.1,2,3,4-tetrahydro-5-methylnaphthalene1.2,6-dimethyloctane1.1-ethyl-4-methylcyclohexane1.1-methylnaphthalene1.	88% 67% 14% 17% 06% 32%
n-dodecane 2,6-dimethylundecane 1. 2-butyl-1,1,3-trimethylcyclohexane 1. hexylcyclohexane 2,6-dimethylundecane 1. 1,2,3,4-tetrahydro-5-methylnaphthalene 2,6-dimethyloctane 1. 1-ethyl-4-methylcyclohexane 1. 1-methylnaphthalene 1.	67% 14% 17% 06% 32%
2,6-dimethylundecane1.2-butyl-1,1,3-trimethylcyclohexane1.hexylcyclohexane1.2,6-dimethylundecane1.1,2,3,4-tetrahydro-5-methylnaphthalene1.2,6-dimethyloctane1.1-ethyl-4-methylcyclohexane1.1-methylnaphthalene1.	14% 17% 06% 32%
2-butyl-1,1,3-trimethylcyclohexane 1. hexylcyclohexane 2,6-dimethylundecane 1,2,3,4-tetrahydro-5-methylnaphthalene 2,6-dimethyloctane 1. 1-ethyl-4-methylcyclohexane 1. 1-methylnaphthalene 1.	17% 06% 32%
hexylcyclohexane 1. 2,6-dimethylundecane 1. 1,2,3,4-tetrahydro-5-methylnaphthalene 1. 2,6-dimethyloctane 1. 1-ethyl-4-methylcyclohexane 1. 1-methylnaphthalene 1.	.06% .32%
2,6-dimethylundecane1.1,2,3,4-tetrahydro-5-methylnaphthalene1.2,6-dimethyloctane1.1-ethyl-4-methylcyclohexane1.1-methylnaphthalene1.	.32%
2,6-dimethylundecane1.1,2,3,4-tetrahydro-5-methylnaphthalene1.2,6-dimethyloctane1.1-ethyl-4-methylcyclohexane1.1-methylnaphthalene1.	
2,6-dimethyloctane1.1-ethyl-4-methylcyclohexane1.1-methylnaphthalene1.	20%
1-ethyl-4-methylcyclohexane 1. 1-methylnaphthalene 1.	/ -
1-methylnaphthalene 1.	.95%
	.37%
1	.22%
n-tridecane 5.	18%
1,2,3,4-tetrahydro-5,7-dimethylnaphthalene	.06%
2-methylnaphthalene 2.	49%
1,2,3,4-tetrahydro-6,7-dimethylnaphthalene	.86%
heptylcyclohexane 1.	35%
6-methyltridecane 1.	14%
4-methyltridecane 1.	.02%
2-methyltridecane 1.	.37%
3,5-dimethyldodecane 2.	21%
cyclotetradecane 1.	.11%
n-tetradecane 5.	44%
4,8-dimethyltridecane 1.	.13%
2,3-dimethylnaphthalene 2.	.29%
1,7-dimethylnapthalene 2.	.11%
octylcyclohexane 1.	.83%
	14%
	99%
n-pentadecane 3.	.66%
6-methylpentadecane 1.	.52%
n-hexadecane 1.	49%

(r) Jet-A 6407

Peak IdentityArea percentagen-decane1.63%3-methyldecane2.02%decahydronapthalene1.28%1-ethyl-2,4-dimethylbenzene1.75%2,3-dimethylnonane2.36%2-methyldecane1.74%1-methyl-4-(1-methylethyl)benzene1.51%1-methyl-2-(1-methylethyl)benzene1.32%n-undecane9.67%2-methyl-decalin1.00%
decahydronapthalene1.28%1-ethyl-2,4-dimethylbenzene1.75%2,3-dimethylnonane2.36%2-methyldecane1.74%1-methyl-4-(1-methylethyl)benzene1.51%1-methyl-2-(1-methylethyl)benzene1.32%n-undecane9.67%
1-ethyl-2,4-dimethylbenzene1.75%2,3-dimethylnonane2.36%2-methyldecane1.74%1-methyl-4-(1-methylethyl)benzene1.51%1-methyl-2-(1-methylethyl)benzene1.32%n-undecane9.67%
2,3-dimethylnonane2.36%2-methyldecane1.74%1-methyl-4-(1-methylethyl)benzene1.51%1-methyl-2-(1-methylethyl)benzene1.32%n-undecane9.67%
2-methyldecane1.74%1-methyl-4-(1-methylethyl)benzene1.51%1-methyl-2-(1-methylethyl)benzene1.32%n-undecane9.67%
1-methyl-4-(1-methylethyl)benzene 1.51% 1-methyl-2-(1-methylethyl)benzene 1.32% n-undecane 9.67%
1-methyl-2-(1-methylethyl)benzene 1.32% n-undecane 9.67%
n-undecane 9.67%
2-methyl-decalin 1.00%
1.00/0
1-methyl-4-(1-methylethyl)benzene 2.77%
2-syn-methyl-cis-decalin 2.62%
3,7-dimethyldecane 1.73%
pentylcyclohexane 1.11%
1-methyl-4-(2-propenyl)benzene 1.11%
1-methyl-4-(1-methylpropyl)benzene 1.80%
5-methylundecane 3.14%
1,2,3,4-tetrahydronaphthalene 1.66%
2-methylundecane 1.55%
3,8-dimethyldecane 1.03%
n-dodecane 6.73%
(1-methyl-1-butenyl)benzene 1.34%
hexylcyclohexane 1.45%
1-tridecene 1.13%
2,6-dimethylundecane 2.34%
1-pentyl-2-propylcyclopentane 1.55%
1,3,5-trimethyl-2-propylbenezne 1.24%
n-tridecane 3.94%
6-methyltridecane 1.43%
1,2,3,4-tetrahydro-6,7-dimethylnaphthalene 1.34%
n-tetradecane 2.35%
octylcyclohexane 1.18%
n-pentadecane 1.03%

(s) JP-8 4571

Peak Identity	Area percentage
n-nonane	1.82%
2,6-dimethyloctane	1.16%
2-methylnonane	1.84%
1-ethyl-2-methylbenzene	1.40%
1,2,3-trimethylbenzene	1.11%
n-decane	5.07%
4-methyldecane	1.98%
butylcyclohexane	1.13%
1-methyl-2-propylbenzene	2.41%
4-ethyl-1,2-dimethylbenzene	1.36%
1-ethyl-2,4-dimethylbenzene	1.48%
1-ethyl-1,2-dimethylcyclohexane	1.27%
4-ethyl-1,2-dimethylbenzene	1.11%
n-undecane	5.62%
1-ethyl-3,5-dimethylbenzene	1.18%
5-methylundecane	1.91%
4-methylundecane	1.03%
2-methylundecane	1.42%
3-methylundecane	2.06%
(1,1-dimethylpropyl)benzene	1.15%
methylcycloheptane	1.00%
n-dodecane	5.86%
2,5-dimethylundecane	2.11%
2-butyl, 1,1,3-trimethylcyclohexane	1.01%
(2-methylpropyl)cyclohexane	1.30%
5-methyldodecane	1.44%
4-methyldodecane	0.84%
2-methyldodecane	1.30%
3-methyldodecane	2.44%
n-tridecane	5.21%
6-methyltridecane	1.70%
n-tetradecane	3.27%
4-methyldodecane	1.23%
n-pentadecane	1.31%

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(t) JP-8 6169

n-nonane 2.95% 3,6-dimethyloctane 1.57% 1-ethyl-3-methylbenzene 2.42% 1-ethyl-2-methylbenzene 2.05% 1,2,3-trimethylbenzene 1.30% n-decane 6.35% 4-methyldecane 1.54% 1,2,4-trimethylbenzene 1.29% 4-methyldecane 1.53% 4-methyldecane 1.37% 3-methyldecane 1.41% 1-ethyl-2,4-dimethylbenzene 1.17% 2-ethyl-1,4-dimethylbenzene 1.04% n-undecane 6.15% 2-methyl-trans-decalin 1.16% 1-methyl-2-(1-methylethyl)benzene 1.64% 4-methylundecane 1.33% 2-methylundecane 1.18% n-dodecane 6.01% 2,5-dimethylundecane 1.35% 1-methyl-2-(1-ethylpropyl)benzene 1.35% 1-methyl-2-(1-ethylpropyl)benzene 1.18% 2-methyldodecane 1.18% 2-methyldodecane 1.18% 2-methyldodecane 1.18% 2-methyldodecane 1.18%	Peak Identity	Area percentage
1-ethyl-3-methylbenzene 2.42% 1-ethyl-2-methylbenzene 2.05% 1,2,3-trimethylbenzene 1.30% n-decane 6.35% 4-methyldecane 1.54% 1,2,4-trimethylbenzene 1.29% 4-methyldecane 1.50% 4-methyldecane 1.50% 2-methyldecane 1.41% 1-ethyl-2,4-dimethylbenzene 1.17% 2-ethyl-1,4-dimethylbenzene 1.04% n-undecane 6.15% 2-methyl-trans-decalin 1.16% 1-methyl-2-(1-methylethyl)benzene 1.64% 4-methylundecane 1.72% 3-methylundecane 1.18% n-dodecane 6.01% 2,5-dimethylundecane 1.35% 1-methyl-2-(1-ethylpropyl)benzene 1.35% 1-methyl-2-(1-ethylpropyl)benzene 1.19% hexylcyclohexane 1.60% 4-methyldodecane 2.10% n-tridecane 5.14% heptylcyclohexane 1.54% n-tetradecane 3.19%	n-nonane	2.95%
1-ethyl-3-methylbenzene 2.42% 1-ethyl-2-methylbenzene 2.05% 1,2,3-trimethylbenzene 1.30% n-decane 6.35% 4-methyldecane 1.54% 1,2,4-trimethylbenzene 1.29% 4-methyldecane 1.50% 4-methyldecane 1.50% 2-methyldecane 1.41% 1-ethyl-2,4-dimethylbenzene 1.17% 2-ethyl-1,4-dimethylbenzene 1.04% n-undecane 6.15% 2-methyl-trans-decalin 1.16% 1-methyl-2-(1-methylethyl)benzene 1.64% 4-methylundecane 1.72% 3-methylundecane 1.18% n-dodecane 6.01% 2,5-dimethylundecane 1.35% 1-methyl-2-(1-ethylpropyl)benzene 1.35% 1-methyl-2-(1-ethylpropyl)benzene 1.19% hexylcyclohexane 1.60% 4-methyldodecane 2.10% n-tridecane 5.14% heptylcyclohexane 1.54% n-tetradecane 3.19%	3,6-dimethyloctane	1.57%
1,2,3-trimethylbenzene 1.30% n-decane 6.35% 4-methyldecane 1.54% 1,2,4-trimethylbenzene 1.29% 4-methyldecane 1.50% 2-methyldecane 1.37% 3-methyldecane 1.41% 1-ethyl-2,4-dimethylbenzene 1.17% 2-ethyl-1,4-dimethylbenzene 1.04% n-undecane 6.15% 2-methyl-trans-decalin 1.16% 1-methyl-2-(1-methylethyl)benzene 1.64% 4-methylundecane 1.33% 2-methylundecane 1.18% n-dodecane 6.01% 2,5-dimethylundecane 1.35% 1-methyl-2-(1-ethylpropyl)benzene 1.19% hexylcyclohexane 1.60% 4-methyldodecane 2.10% n-tridecane 5.14% heptylcyclohexane 1.54% n-tetradecane 3.19%		2.42%
1,2,3-trimethylbenzene 1.30% n-decane 6.35% 4-methyldecane 1.54% 1,2,4-trimethylbenzene 1.29% 4-methyldecane 1.50% 2-methyldecane 1.37% 3-methyldecane 1.41% 1-ethyl-2,4-dimethylbenzene 1.17% 2-ethyl-1,4-dimethylbenzene 1.04% n-undecane 6.15% 2-methyl-trans-decalin 1.16% 1-methyl-2-(1-methylethyl)benzene 1.64% 4-methylundecane 1.33% 2-methylundecane 1.18% n-dodecane 6.01% 2,5-dimethylundecane 1.35% 1-methyl-2-(1-ethylpropyl)benzene 1.19% hexylcyclohexane 1.60% 4-methyldodecane 2.10% n-tridecane 5.14% heptylcyclohexane 1.54% n-tetradecane 3.19%	1-ethyl-2-methylbenzene	2.05%
4-methyldecane 1.54% 1,2,4-trimethylbenzene 1.29% 4-methyldecane 1.53% 4-methyldecane 1.50% 2-methyldecane 1.37% 3-methyldecane 1.41% 1-ethyl-2,4-dimethylbenzene 1.17% 2-ethyl-1,4-dimethylbenzene 1.04% n-undecane 6.15% 2-methyl-trans-decalin 1.16% 1-methyl-2-(1-methylethyl)benzene 1.64% 4-methylundecane 1.72% 3-methylundecane 1.18% n-dodecane 6.01% 2,5-dimethylundecane 2.06% 1,4-diethyl-2-methylbenzene 1.35% 1-methyl-2-(1-ethylpropyl)benzene 1.19% hexylcyclohexane 1.60% 4-methyldodecane 2.10% n-tridecane 5.14% heptylcyclohexane 1.54% n-tetradecane 3.19%	1,2,3-trimethylbenzene	1.30%
1,2,4-trimethylbenzene 1.29% 4-methyldecane 1.53% 4-methyldecane 1.50% 2-methyldecane 1.37% 3-methyldecane 1.41% 1-ethyl-2,4-dimethylbenzene 1.17% 2-ethyl-1,4-dimethylbenzene 1.04% n-undecane 6.15% 2-methyl-trans-decalin 1.16% 1-methyl-2-(1-methylethyl)benzene 1.64% 4-methylundecane 1.72% 3-methylundecane 1.18% n-dodecane 6.01% 2,5-dimethylundecane 2.06% 1,4-diethyl-2-methylbenzene 1.35% 1-methyl-2-(1-ethylpropyl)benzene 1.19% hexylcyclohexane 1.60% 4-methyldodecane 2.10% n-tridecane 5.14% heptylcyclohexane 1.54% n-tetradecane 3.19%	n-decane	6.35%
4-methyldecane 1.53% 2-methyldecane 1.50% 3-methyldecane 1.37% 3-methyldecane 1.41% 1-ethyl-2,4-dimethylbenzene 1.17% 2-ethyl-1,4-dimethylbenzene 1.04% n-undecane 6.15% 2-methyl-trans-decalin 1.16% 1-methyl-2-(1-methylethyl)benzene 1.64% 4-methylundecane 1.72% 3-methylundecane 1.18% n-dodecane 6.01% 2,5-dimethylundecane 2.06% 1,4-diethyl-2-methylbenzene 1.35% 1-methyl-2-(1-ethylpropyl)benzene 1.19% hexylcyclohexane 1.60% 4-methyldodecane 2.10% n-tridecane 5.14% heptylcyclohexane 1.54% n-tetradecane 3.19%	4-methyldecane	1.54%
4-methyldecane 1.50% 2-methyldecane 1.37% 3-methyldecane 1.41% 1-ethyl-2,4-dimethylbenzene 1.17% 2-ethyl-1,4-dimethylbenzene 1.04% n-undecane 6.15% 2-methyl-trans-decalin 1.16% 1-methyl-2-(1-methylethyl)benzene 1.64% 4-methylundecane 1.72% 3-methylundecane 1.18% n-dodecane 6.01% 2,5-dimethylundecane 2.06% 1,4-diethyl-2-methylbenzene 1.35% 1-methyl-2-(1-ethylpropyl)benzene 1.19% hexylcyclohexane 1.60% 4-methyldodecane 2.10% n-tridecane 5.14% heptylcyclohexane 1.54% n-tetradecane 3.19%	1,2,4-trimethylbenzene	1.29%
2-methyldecane 1.37% 3-methyldecane 1.41% 1-ethyl-2,4-dimethylbenzene 1.17% 2-ethyl-1,4-dimethylbenzene 1.04% n-undecane 6.15% 2-methyl-trans-decalin 1.16% 1-methyl-2-(1-methylethyl)benzene 1.64% 4-methylundecane 1.72% 3-methylundecane 1.18% n-dodecane 6.01% 2,5-dimethylundecane 2.06% 1,4-diethyl-2-methylbenzene 1.35% 1-methyl-2-(1-ethylpropyl)benzene 1.19% hexylcyclohexane 1.60% 4-methyldodecane 2.10% n-tridecane 5.14% heptylcyclohexane 1.54% n-tetradecane 3.19%	4-methyldecane	1.53%
3-methyldecane 1.41% 1-ethyl-2,4-dimethylbenzene 1.17% 2-ethyl-1,4-dimethylbenzene 1.04% n-undecane 6.15% 2-methyl-trans-decalin 1.16% 1-methyl-2-(1-methylethyl)benzene 1.64% 4-methylundecane 1.72% 3-methylundecane 1.18% n-dodecane 6.01% 2,5-dimethylundecane 2.06% 1,4-diethyl-2-methylbenzene 1.35% 1-methyl-2-(1-ethylpropyl)benzene 1.19% hexylcyclohexane 1.60% 4-methyldodecane 2.10% n-tridecane 5.14% heptylcyclohexane 1.54% n-tetradecane 3.19%	4-methyldecane	1.50%
1-ethyl-2,4-dimethylbenzene 1.17% 2-ethyl-1,4-dimethylbenzene 1.04% n-undecane 6.15% 2-methyl-trans-decalin 1.16% 1-methyl-2-(1-methylethyl)benzene 1.64% 4-methylundecane 1.33% 2-methylundecane 1.18% n-dodecane 6.01% 2,5-dimethylundecane 2.06% 1,4-diethyl-2-methylbenzene 1.35% 1-methyl-2-(1-ethylpropyl)benzene 1.19% hexylcyclohexane 1.60% 4-methyldodecane 2.10% n-tridecane 5.14% heptylcyclohexane 1.54% n-tetradecane 3.19%	2-methyldecane	1.37%
2-ethyl-1,4-dimethylbenzene 1.04% n-undecane 6.15% 2-methyl-trans-decalin 1.16% 1-methyl-2-(1-methylethyl)benzene 1.64% 4-methylundecane 1.33% 2-methylundecane 1.18% n-dodecane 6.01% 2,5-dimethylundecane 2.06% 1,4-diethyl-2-methylbenzene 1.35% 1-methyl-2-(1-ethylpropyl)benzene 1.19% hexylcyclohexane 1.60% 4-methyldodecane 2.10% n-tridecane 5.14% heptylcyclohexane 1.54% n-tetradecane 3.19%	3-methyldecane	1.41%
n-undecane 6.15% 2-methyl-trans-decalin 1.16% 1-methyl-2-(1-methylethyl)benzene 1.64% 4-methylundecane 1.33% 2-methylundecane 1.18% n-dodecane 6.01% 2,5-dimethylundecane 2.06% 1,4-diethyl-2-methylbenzene 1.35% 1-methyl-2-(1-ethylpropyl)benzene 1.19% hexylcyclohexane 1.60% 4-methyldodecane 2.10% n-tridecane 5.14% heptylcyclohexane 1.54% n-tetradecane 3.19%	1-ethyl-2,4-dimethylbenzene	1.17%
2-methyl-trans-decalin 1.16% 1-methyl-2-(1-methylethyl)benzene 1.64% 4-methylundecane 1.33% 2-methylundecane 1.72% 3-methylundecane 6.01% n-dodecane 6.01% 2,5-dimethylundecane 2.06% 1,4-diethyl-2-methylbenzene 1.35% 1-methyl-2-(1-ethylpropyl)benzene 1.19% hexylcyclohexane 1.60% 4-methyldodecane 2.10% n-tridecane 5.14% heptylcyclohexane 1.54% n-tetradecane 3.19%	2-ethyl-1,4-dimethylbenzene	1.04%
1-methyl-2-(1-methylethyl)benzene1.64%4-methylundecane1.33%2-methylundecane1.72%3-methylundecane1.18%n-dodecane6.01%2,5-dimethylundecane2.06%1,4-diethyl-2-methylbenzene1.35%1-methyl-2-(1-ethylpropyl)benzene1.19%hexylcyclohexane1.60%4-methyldodecane2.10%n-tridecane5.14%heptylcyclohexane1.54%n-tetradecane3.19%	n-undecane	6.15%
4-methylundecane 1.33% 2-methylundecane 1.72% 3-methylundecane 1.18% n-dodecane 6.01% 2,5-dimethylundecane 2.06% 1,4-diethyl-2-methylbenzene 1.35% 1-methyl-2-(1-ethylpropyl)benzene 1.19% hexylcyclohexane 1.60% 4-methyldodecane 2.10% n-tridecane 5.14% heptylcyclohexane 1.54% n-tetradecane 3.19%	2-methyl-trans-decalin	1.16%
2-methylundecane1.72%3-methylundecane1.18%n-dodecane6.01%2,5-dimethylundecane2.06%1,4-diethyl-2-methylbenzene1.35%1-methyl-2-(1-ethylpropyl)benzene1.19%hexylcyclohexane1.60%4-methyldodecane1.18%2-methyldodecane2.10%n-tridecane5.14%heptylcyclohexane1.54%n-tetradecane3.19%	1-methyl-2-(1-methylethyl)benzene	1.64%
3-methylundecane 1.18% n-dodecane 6.01% 2,5-dimethylundecane 2.06% 1,4-diethyl-2-methylbenzene 1.35% 1-methyl-2-(1-ethylpropyl)benzene 1.19% hexylcyclohexane 1.60% 4-methyldodecane 2.10% n-tridecane 5.14% heptylcyclohexane 1.54% n-tetradecane 3.19%	4-methylundecane	1.33%
n-dodecane6.01%2,5-dimethylundecane2.06%1,4-diethyl-2-methylbenzene1.35%1-methyl-2-(1-ethylpropyl)benzene1.19%hexylcyclohexane1.60%4-methyldodecane1.18%2-methyldodecane2.10%n-tridecane5.14%heptylcyclohexane1.54%n-tetradecane3.19%	2-methylundecane	1.72%
2,5-dimethylundecane2.06%1,4-diethyl-2-methylbenzene1.35%1-methyl-2-(1-ethylpropyl)benzene1.19%hexylcyclohexane1.60%4-methyldodecane1.18%2-methyldodecane2.10%n-tridecane5.14%heptylcyclohexane1.54%n-tetradecane3.19%	3-methylundecane	1.18%
1,4-diethyl-2-methylbenzene1.35%1-methyl-2-(1-ethylpropyl)benzene1.19%hexylcyclohexane1.60%4-methyldodecane1.18%2-methyldodecane2.10%n-tridecane5.14%heptylcyclohexane1.54%n-tetradecane3.19%	n-dodecane	6.01%
1-methyl-2-(1-ethylpropyl)benzene1.19%hexylcyclohexane1.60%4-methyldodecane1.18%2-methyldodecane2.10%n-tridecane5.14%heptylcyclohexane1.54%n-tetradecane3.19%	2,5-dimethylundecane	2.06%
hexylcyclohexane1.60%4-methyldodecane1.18%2-methyldodecane2.10%n-tridecane5.14%heptylcyclohexane1.54%n-tetradecane3.19%	1,4-diethyl-2-methylbenzene	1.35%
4-methyldodecane1.18%2-methyldodecane2.10%n-tridecane5.14%heptylcyclohexane1.54%n-tetradecane3.19%	1-methyl-2-(1-ethylpropyl)benzene	1.19%
2-methyldodecane2.10%n-tridecane5.14%heptylcyclohexane1.54%n-tetradecane3.19%	hexylcyclohexane	1.60%
n-tridecane5.14%heptylcyclohexane1.54%n-tetradecane3.19%		
heptylcyclohexane 1.54% n-tetradecane 3.19%	2-methyldodecane	2.10%
n-tetradecane 3.19%		
	1 0 0	1.54%
n-pentadecane 1.15%	n-tetradecane	
	n-pentadecane	1.15%

(u) JP-<u>5</u> <u>4</u>810

n-decane 3.74% 1-ethyl-3-methylbenzene 1.39% butylcyclohexane 1.00% 3,7-dimethylnonane 1.03% 1-methyl-3-(1-methylethyl)benzene 2.90% 2-methyldecane 1.22% 3-methyldecane 1.21% 1-methyl-2-(1-methylethyl)benzene 1.36% n-undecane 7.17% 2-methyl-trans-decalin 1.74% 2-methylcecalin 1.08% pentylcyclohexane 1.22% 1-methyl-2-(1-methylpropyl)benzene 2.12% 2-methylundecane 1.55% 3-methylundecane 1.59% decahydro-2,6-dimethylnaphthalene 2.01% 1-methyl-4-(1-methylpropyl)benzene 1.98% 1-methyl-2-pentylcyclohexane 1.50% n-dodecane 7.24% 2,6-dimethylundecane 2.91% 1,4-diethyl-2-methylbenzene 2.03% hexylcyclohexane 1.75% 2,4-dimethylundecane 2.03% 2-methyldodecane 1.59% 5-methyldodecane 2.82% n-tridecane <th>Peak Identity</th> <th>Area percentage</th>	Peak Identity	Area percentage
1-ethyl-3-methylbenzene 1.39% butylcyclohexane 1.00% 3,7-dimethylnonane 1.03% 1-methyl-3-(1-methylethyl)benzene 2.90% 2-methyldecane 1.21% 1-methyl-2-(1-methylethyl)benzene 1.36% n-undecane 7.17% 2-methyl-trans-decalin 1.74% 2-methyl-trans-decalin 1.08% pentylcyclohexane 1.22% 1-methyl-2-(1-methylpropyl)benzene 2.12% 2-methylundecane 1.05% 3-methylundecane 1.59% decahydro-2,6-dimethylnaphthalene 2.01% 1-methyl-4-(1-methylpropyl)benzene 1.98% 1-methyl-2-pentylcyclohexane 1.50% n-dodecane 7.24% 2,6-dimethylundecane 2.91% 1,4-diethyl-2-methylbenzene 2.03% hexylcyclohexane 1.75% 2,4-dimethylundecane 2.03% 2-methyldodecane 1.59% 5-methyldodecane 1.59% 5-methyldodecane 1.59% 5-methylnaphthalene 1.15%	-	
butylcyclohexane 1.00% 3,7-dimethylnonane 1.03% 1-methyl-3-(1-methylethyl)benzene 2.90% 2-methyldecane 1.22% 3-methyldecane 1.21% 1-methyl-2-(1-methylethyl)benzene 1.36% n-undecane 7.17% 2-methyl-trans-decalin 1.74% 2-methyldecalin 1.08% pentylcyclohexane 1.22% 1-methyl-2-(1-methylpropyl)benzene 2.12% 2-methylundecane 1.05% 3-methylundecane 1.59% decahydro-2,6-dimethylnaphthalene 2.01% 1-methyl-4-(1-methylpropyl)benzene 1.98% 1-methyl-2-pentylcyclohexane 1.50% n-dodecane 7.24% 2,6-dimethylundecane 2.91% 1,4-diethyl-2-methylbenzene 1.75% 2,4-dimethylundecane 2.03% hexylcyclohexane 1.59% 5-methyldodecane 2.82% n-tridecane 2.82% n-tridecane 1.15% 2,5-dimethyldodecane 1.02% 4-methyltridecane 1.02% 2-methyltridecane 1.02% 2-methyltridecane 1.72% cyclotetradecane 1.62%	1-ethyl-3-methylbenzene	
3,7-dimethylnonane 1.03% 1-methyl-3-(1-methylethyl)benzene 2.90% 2-methyldecane 1.22% 3-methyldecane 1.21% 1-methyl-2-(1-methylethyl)benzene 1.36% n-undecane 7.17% 2-methyl-trans-decalin 1.74% 2-methyldecalin 1.08% pentylcyclohexane 1.22% 1-methyl-2-(1-methylpropyl)benzene 2.12% 2-methylundecane 1.05% 3-methylundecane 1.59% decahydro-2,6-dimethylnaphthalene 2.01% 1-methyl-4-(1-methylpropyl)benzene 1.98% 1-methyl-2-pentylcyclohexane 1.50% n-dodecane 7.24% 2,6-dimethylundecane 2.91% 1,4-diethyl-2-methylbenzene 2.03% hexylcyclohexane 1.75% 2,4-dimethylundecane 2.03% 2-methyldodecane 1.59% 5-methyldodecane 1.59% 1-methylnaphthalene 1.15% 2,5-dimethyldodecane 1.02% 4-methyltridecane 1.02% 2-methyltridecane 1.02% 2-methyltridecane		1.00%
2-methyldecane 1.22% 3-methyldecane 1.21% 1-methyl-2-(1-methylethyl)benzene 1.36% n-undecane 7.17% 2-methyl-trans-decalin 1.74% 2-methyldecalin 1.08% pentylcyclohexane 1.22% 1-methyl-2-(1-methylpropyl)benzene 2.12% 2-methylundecane 1.59% decahydro-2,6-dimethylnaphthalene 2.01% 1-methyl-4-(1-methylpropyl)benzene 1.98% 1-methyl-2-pentylcyclohexane 1.50% n-dodecane 7.24% 2,6-dimethylundecane 2.91% 1,4-diethyl-2-methylbenzene 2.03% hexylcyclohexane 1.75% 2,4-dimethylundecane 2.03% 2-methyldodecane 1.59% 5-methyldodecane 5.20% 1-methylnaphthalene 1.15% 2,5-dimethyldodecane 1.02% 4-methyltridecane 1.02% 2-methyltridecane 1.72% cyclotetradecane 1.62%		1.03%
3-methyldecane 1.21% 1-methyl-2-(1-methylethyl)benzene 1.36% n-undecane 7.17% 2-methyl-trans-decalin 1.74% 2-methyldecalin 1.08% pentylcyclohexane 1.22% 1-methyl-2-(1-methylpropyl)benzene 2.12% 2-methylundecane 1.05% 3-methylundecane 1.59% decahydro-2,6-dimethylnaphthalene 2.01% 1-methyl-4-(1-methylpropyl)benzene 1.98% 1-methyl-2-pentylcyclohexane 1.50% n-dodecane 7.24% 2,6-dimethylundecane 2.91% 1,4-diethyl-2-methylbenzene 2.03% hexylcyclohexane 1.75% 2,4-dimethylundecane 2.03% 2-methyldodecane 1.59% 5-methyldodecane 5.20% 1-methylnaphthalene 1.15% 2,5-dimethyldodecane 1.02% 4-methyltridecane 1.02% 2-methyltridecane 1.72% cyclotetradecane 1.62%	1-methyl-3-(1-methylethyl)benzene	2.90%
1-methyl-2-(1-methylethyl)benzene 1.36% n-undecane 7.17% 2-methyl-trans-decalin 1.74% 2-methyldecalin 1.08% pentylcyclohexane 1.22% 1-methyl-2-(1-methylpropyl)benzene 2.12% 2-methylundecane 1.05% 3-methylundecane 2.01% 1-methyl-4-(1-methylpropyl)benzene 1.98% 1-methyl-2-pentylcyclohexane 1.50% n-dodecane 7.24% 2,6-dimethylundecane 2.91% 1,4-diethyl-2-methylbenzene 2.03% hexylcyclohexane 1.75% 2,4-dimethylundecane 2.03% 2-methyldodecane 1.59% 5-methyldodecane 5.20% 1-methylnaphthalene 1.15% 2,5-dimethyldodecane 1.02% 4-methyltridecane 1.02% 2-methyltridecane 1.72% cyclotetradecane 1.62%	2-methyldecane	1.22%
n-undecane 7.17% 2-methyl-trans-decalin 1.74% 2-methyldecalin 1.08% pentylcyclohexane 1.22% 1-methyl-2-(1-methylpropyl)benzene 2.12% 2-methylundecane 1.05% 3-methylundecane 1.59% decahydro-2,6-dimethylnaphthalene 2.01% 1-methyl-4-(1-methylpropyl)benzene 1.98% 1-methyl-2-pentylcyclohexane 1.50% n-dodecane 7.24% 2,6-dimethylundecane 2.91% 1,4-diethyl-2-methylbenzene 2.03% hexylcyclohexane 1.75% 2,4-dimethylundecane 2.03% 2-methyldodecane 1.59% 5-methyldodecane 5.20% 1-methylnaphthalene 1.15% 2,5-dimethyldodecane 1.02% 4-methyltridecane 1.02% 2-methyltridecane 1.72% cyclotetradecane 1.62%	3-methyldecane	1.21%
2-methyl-trans-decalin 1.74% 2-methyldecalin 1.08% pentylcyclohexane 1.22% 1-methyl-2-(1-methylpropyl)benzene 2.12% 2-methylundecane 1.05% 3-methylundecane 1.59% decahydro-2,6-dimethylnaphthalene 2.01% 1-methyl-4-(1-methylpropyl)benzene 1.98% 1-methyl-2-pentylcyclohexane 1.50% n-dodecane 7.24% 2,6-dimethylundecane 2.91% 1,4-diethyl-2-methylbenzene 2.03% hexylcyclohexane 1.75% 2,4-dimethylundecane 2.03% 2-methyldodecane 1.59% 5-methyldodecane 5.20% 1-methylnaphthalene 1.15% 2,5-dimethyldodecane 1.02% 4-methyltridecane 1.02% 2-methyltridecane 1.72% cyclotetradecane 1.62%	1-methyl-2-(1-methylethyl)benzene	1.36%
2-methyldecalin 1.08% pentylcyclohexane 1.22% 1-methyl-2-(1-methylpropyl)benzene 2.12% 2-methylundecane 1.05% 3-methylundecane 1.59% decahydro-2,6-dimethylnaphthalene 2.01% 1-methyl-4-(1-methylpropyl)benzene 1.98% 1-methyl-2-pentylcyclohexane 1.50% n-dodecane 7.24% 2,6-dimethylundecane 2.91% 1,4-diethyl-2-methylbenzene 2.03% hexylcyclohexane 1.75% 2,4-dimethylundecane 2.03% 2-methyldodecane 1.59% 5-methyldodecane 5.20% 1-methylnaphthalene 1.15% 2,5-dimethyldodecane 1.02% 4-methyltridecane 1.02% 2-methyltridecane 1.72% cyclotetradecane 1.62%	n-undecane	7.17%
2-methyldecalin 1.08% pentylcyclohexane 1.22% 1-methyl-2-(1-methylpropyl)benzene 2.12% 2-methylundecane 1.05% 3-methylundecane 1.59% decahydro-2,6-dimethylnaphthalene 2.01% 1-methyl-4-(1-methylpropyl)benzene 1.98% 1-methyl-2-pentylcyclohexane 1.50% n-dodecane 7.24% 2,6-dimethylundecane 2.91% 1,4-diethyl-2-methylbenzene 2.03% hexylcyclohexane 1.75% 2,4-dimethylundecane 2.03% 2-methyldodecane 1.59% 5-methyldodecane 5.20% 1-methylnaphthalene 1.15% 2,5-dimethyldodecane 1.02% 4-methyltridecane 1.02% 2-methyltridecane 1.72% cyclotetradecane 1.62%	2-methyl-trans-decalin	1.74%
1-methyl-2-(1-methylpropyl)benzene 2.12% 2-methylundecane 1.05% 3-methylundecane 1.59% decahydro-2,6-dimethylnaphthalene 2.01% 1-methyl-4-(1-methylpropyl)benzene 1.98% 1-methyl-2-pentylcyclohexane 1.50% n-dodecane 2.91% 2,6-dimethylundecane 2.91% 1,4-diethyl-2-methylbenzene 2.03% hexylcyclohexane 1.75% 2,4-dimethylundecane 2.03% 2-methyldodecane 1.59% 5-methyldodecane 2.82% n-tridecane 5.20% 1-methylnaphthalene 1.15% 2,5-dimethyldodecane 1.02% 4-methyltridecane 1.02% 2-methyltridecane 1.72% cyclotetradecane 1.62%		1.08%
2-methylundecane 1.05% 3-methylundecane 1.59% decahydro-2,6-dimethylnaphthalene 2.01% 1-methyl-4-(1-methylpropyl)benzene 1.98% 1-methyl-2-pentylcyclohexane 1.50% n-dodecane 7.24% 2,6-dimethylundecane 2.91% 1,4-diethyl-2-methylbenzene 2.03% hexylcyclohexane 1.75% 2,4-dimethylundecane 2.03% 2-methyldodecane 1.59% 5-methyldodecane 2.82% n-tridecane 5.20% 1-methylnaphthalene 1.15% 2,5-dimethyldodecane 1.02% 4-methyltridecane 1.02% 2-methyltridecane 1.72% cyclotetradecane 1.62%	pentylcyclohexane	1.22%
3-methylundecane 1.59% decahydro-2,6-dimethylnaphthalene 2.01% 1-methyl-4-(1-methylpropyl)benzene 1.98% 1-methyl-2-pentylcyclohexane 1.50% n-dodecane 7.24% 2,6-dimethylundecane 2.91% 1,4-diethyl-2-methylbenzene 2.03% hexylcyclohexane 1.75% 2,4-dimethylundecane 2.03% 2-methyldodecane 1.59% 5-methyldodecane 2.82% n-tridecane 5.20% 1-methylnaphthalene 1.15% 2,5-dimethyldodecane 1.02% 4-methyltridecane 1.02% 2-methyltridecane 1.72% cyclotetradecane 1.62%	1-methyl-2-(1-methylpropyl)benzene	2.12%
decahydro-2,6-dimethylnaphthalene2.01%1-methyl-4-(1-methylpropyl)benzene1.98%1-methyl-2-pentylcyclohexane1.50%n-dodecane7.24%2,6-dimethylundecane2.91%1,4-diethyl-2-methylbenzene2.03%hexylcyclohexane1.75%2,4-dimethylundecane2.03%2-methyldodecane1.59%5-methyldodecane2.82%n-tridecane5.20%1-methylnaphthalene1.15%2,5-dimethyldodecane1.02%4-methyltridecane1.02%2-methyltridecane1.72%cyclotetradecane1.62%	2-methylundecane	1.05%
1-methyl-4-(1-methylpropyl)benzene 1.98% 1-methyl-2-pentylcyclohexane 1.50% n-dodecane 7.24% 2,6-dimethylundecane 2.91% 1,4-diethyl-2-methylbenzene 2.03% hexylcyclohexane 1.75% 2,4-dimethylundecane 2.03% 2-methyldodecane 1.59% 5-methyldodecane 2.82% n-tridecane 5.20% 1-methylnaphthalene 1.15% 2,5-dimethyldodecane 1.02% 4-methyltridecane 1.02% 2-methyltridecane 1.72% cyclotetradecane 1.62%	3-methylundecane	1.59%
1-methyl-2-pentylcyclohexane 1.50% n-dodecane 7.24% 2,6-dimethylundecane 2.91% 1,4-diethyl-2-methylbenzene 2.03% hexylcyclohexane 1.75% 2,4-dimethylundecane 2.03% 2-methyldodecane 1.59% 5-methyldodecane 2.82% n-tridecane 5.20% 1-methylnaphthalene 1.15% 2,5-dimethyldodecane 1.02% 4-methyltridecane 1.02% 2-methyltridecane 1.72% cyclotetradecane 1.62%	decahydro-2,6-dimethylnaphthalene	2.01%
n-dodecane 7.24% 2,6-dimethylundecane 2.91% 1,4-diethyl-2-methylbenzene 2.03% hexylcyclohexane 1.75% 2,4-dimethylundecane 2.03% 2-methyldodecane 1.59% 5-methyldodecane 2.82% n-tridecane 5.20% 1-methylnaphthalene 1.15% 2,5-dimethyldodecane 1.02% 4-methyltridecane 1.02% 2-methyltridecane 1.72% cyclotetradecane 1.62%	1-methyl-4-(1-methylpropyl)benzene	1.98%
2,6-dimethylundecane 2.91% 1,4-diethyl-2-methylbenzene 2.03% hexylcyclohexane 1.75% 2,4-dimethylundecane 2.03% 2-methyldodecane 1.59% 5-methyldodecane 2.82% n-tridecane 5.20% 1-methylnaphthalene 1.15% 2,5-dimethyldodecane 1.02% 4-methyltridecane 1.02% 2-methyltridecane 1.72% cyclotetradecane 1.62%	1-methyl-2-pentylcyclohexane	1.50%
1,4-diethyl-2-methylbenzene2.03%hexylcyclohexane1.75%2,4-dimethylundecane2.03%2-methyldodecane1.59%5-methyldodecane2.82%n-tridecane5.20%1-methylnaphthalene1.15%2,5-dimethyldodecane1.02%4-methyltridecane1.02%2-methyltridecane1.72%cyclotetradecane1.62%	n-dodecane	7.24%
hexylcyclohexane 1.75% 2,4-dimethylundecane 2.03% 2-methyldodecane 1.59% 5-methyldodecane 2.82% n-tridecane 5.20% 1-methylnaphthalene 1.15% 2,5-dimethyldodecane 1.02% 4-methyltridecane 1.02% 2-methyltridecane 1.72% cyclotetradecane 1.62%	2,6-dimethylundecane	2.91%
2,4-dimethylundecane 2.03% 2-methyldodecane 1.59% 5-methyldodecane 2.82% n-tridecane 5.20% 1-methylnaphthalene 1.15% 2,5-dimethyldodecane 1.02% 4-methyltridecane 1.02% 2-methyltridecane 1.72% cyclotetradecane 1.62%	1,4-diethyl-2-methylbenzene	2.03%
2-methyldodecane1.59%5-methyldodecane2.82%n-tridecane5.20%1-methylnaphthalene1.15%2,5-dimethyldodecane1.02%4-methyltridecane1.02%2-methyltridecane1.72%cyclotetradecane1.62%	hexylcyclohexane	1.75%
5-methyldodecane2.82%n-tridecane5.20%1-methylnaphthalene1.15%2,5-dimethyldodecane1.02%4-methyltridecane1.02%2-methyltridecane1.72%cyclotetradecane1.62%	2,4-dimethylundecane	2.03%
n-tridecane 5.20% 1-methylnaphthalene 1.15% 2,5-dimethyldodecane 1.02% 4-methyltridecane 1.02% 2-methyltridecane 1.72% cyclotetradecane 1.62%		
1-methylnaphthalene1.15%2,5-dimethyldodecane1.02%4-methyltridecane1.02%2-methyltridecane1.72%cyclotetradecane1.62%	5-methyldodecane	2.82%
2,5-dimethyldodecane1.02%4-methyltridecane1.02%2-methyltridecane1.72%cyclotetradecane1.62%		
4-methyltridecane1.02%2-methyltridecane1.72%cyclotetradecane1.62%	1-methylnaphthalene	1.15%
2-methyltridecane 1.72% cyclotetradecane 1.62%	2,5-dimethyldodecane	1.02%
cyclotetradecane 1.62%		1.02%
•		
n tatrodocono 2 410/	•	
	n-tetradecane	3.41%
4-methyltetradecane 1.03%	<u> </u>	
n-pentadecane 1.18%	n-pentadecane	1.18%