OPPT-2002-0066-0018

United States
Environmental Protection
Agency

Office of
Toxic Substances
Washington DC 20460

EPA-560/5-87-002B
May. 1987

PB88100375

Toxic Substances

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98pp

# CHARACTERIZATION OF HRGC/MS UNIDENTIFIED PEAKS FROM THE ANALYSIS OF HUMAN ADIPOSE TISSUE

## VOLUME II - APPENDICES

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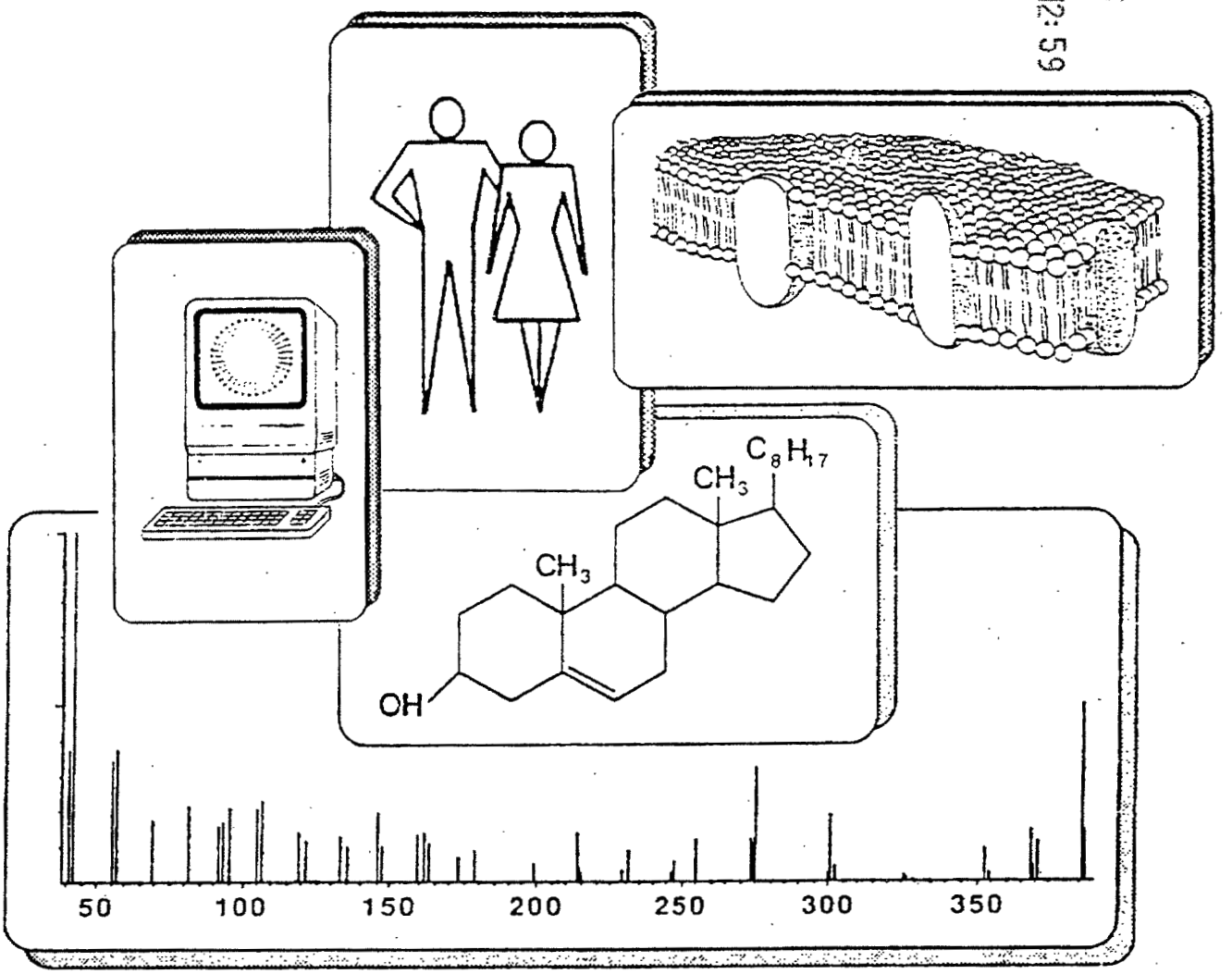




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| | | |
|---|---|---|
| 1. REPORT NO. EPA-560/5-87-002B | 2. | 3. RECIPIENT'S ACCESSION NO. PB88-100375/AS |
| 4. TITLE AND SUBTITLE Characterization of HRGC/MS Unidentified Peaks from the Analysis of Human Adipose Tissue, Volume II - Appendices | | 5. REPORT DATE June 30, 1987 |
| | | 6. PERFORMING ORGANIZATION CODE Midwest Research Institute |
| 7. AUTHOR(S) J. D. Onstot, R. E. Ayling, J. S. Stanley | | 8. PERFORMING ORGANIZATION REPORT NO. 8823-A(01) |
| 9. PERFORMING ORGANIZATION NAME AND ADDRESS Midwest Research Institute, 425 Volker Boulevard, Kansas City, MO 64110 | | 10. PROGRAM ELEMENT NO. Work Assignment 23 |
| | | 11. CONTRACT/GRANT NO. 68-02-4252 |
| 12. SPONSORING AGENCY NAME AND ADDRESS U.S. Environmental Protection Agency, Office of Toxic Substances (TS-798), Field Studies Branch, 401 M Street, S.W., Washington, DC 20460 | | 13. TYPE OF REPORT AND PERIOD COVERED Final Report 1/86-1/87 |
| | | 14. SPONSORING AGENCY CODE EPA/OTS/FSB |

15. SUPPLEMENTARY NOTES
High resolution gas chromatography/mass spectrometry

EPA's Office of Toxic Substances (OTS)

16. ABSTRACT

The National Human Adipose Tissue Survey (NHATS), administered by ~~EPA/OTS~~, is an ongoing chemical monitoring network designed to detect levels and prevalences of toxic substances in the adipose tissue of the general U.S. population. Adipose specimens collected in fiscal year 1982 were analyzed as composites for volatile and semivolatile organic compounds via HRGC/MS as part of a previous effort. The data files were then processed using a method developed to automatically identify unknown HRGC/MS peaks. The method consisted of automatic identification of unknown spectra via comparisons to reference mass spectra, transfer of the results of the identification step to a microcomputer, compilation of the data into a spreadsheet program and generation of compound identification tables from the spreadsheet. Application of the method to the adipose data resulted in the identification of volatile compounds from 18 separate chemical classes and semivolatiles from 29 chemical classes. Compound classes included saturated and unsaturated hydrocarbons, aldehydes, ketones, steroids, heterocyclic compounds, drugs, aliphatic and phthalate esters, phenols, halocarbons, and methyl-substituted organosiloxanes. Volume I (EPA-560/5-87-002A) describes the technical approach. Volume II (EPA-560/5-87-002B) provides supplemental data.

17. KEY WORDS AND DOCUMENT ANALYSIS

| a. DESCRIPTORS | | b. IDENTIFIERS/OPEN ENDED TERMS | c. COSATI Field/Group |
|---|---|---|---|
| Adipose | Data transfer | | |
| Computer program | Characterization | | |
| Mass spectrometry | | | |
| GC/MS | | | |
| Volatile | | | 000002 |
| Semivolatile | | | |

| | | |
|---|---|---|
| 18. DISTRIBUTION STATEMENT | 19. SECURITY CLASS (This Report) Unclassified | 21. NO. OF PAGES 95 |
| | 20. SECURITY CLASS (This page) Unclassified | 22. PRICE |

EPA Form 2220-1 (Rev. 4-77) PREVIOUS EDITION IS OBSOLETE

# CHARACTERIZATION OF HRGC/MS UNIDENTIFIED PEAKS FROM THE ANALYSIS OF HUMAN ADIPOSE TISSUES

## VOLUME II: APPENDICES

by

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FINAL REPORT

EPA Contract No. 68-02-4252
Work Assignment No. 23
MRI Project No. 8823-A01

June 30, 1987

Prepared for:

National Human Monitoring Program
Field Studies Branch (TS-798)
Exposure Evaluation Division
Office of Pesticides and Toxic Substances
U.S. Environmental Protection Agency
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## PREFACE

This report describes Midwest Research Institute's approach to characterize unidentified chromatographic peaks in HRGC/MS data collected from the analysis of human adipose tissue for general volatile and semivolatile organic compounds. This report is provided as two separate volumes. Volume I describes the technical approach and presents a summary of the results based on frequency of observation by age group and census region. Volume II is an appendix to Volume I and contains additional details on frequency of occurrence for both identified and unidentified peaks based on census region, census division, and age. This report focuses on the approach to identifying compounds from the HRGC/MS spectra. The frequency of detection of specific compounds is presente. The HRGC/MS data were collected for 46 samples prepared as composites from individual specimens of the U.S. Environmental Protection Agency's fiscal year 1982 (FY82) National Human Adipose Tissue Survey (NHATS) repository. The sample collection, compositing, and the analysis of the composites for specific volatile and semivolatile organic compounds are described in detail in separate reports (Stanley 1986b, Stanley 1986c).

This approach to the characterization of HRGC/MS unidentified peaks was developed and conducted for the EPA's Office of Toxic Substances, Field Studies Branch (EPA Contract No. 68-02-4252, Work Assignment 23, Ms. Janet Remmers, Work Assignment Manager, and Dr. Joseph Breen, Project Officer. This report was prepared by Mr. Jon Onstot with assistance from Mr. Randall E. Ayling and Dr. John S. Stanley, MRI Work Assignment Leader.

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APPENDIX A

DOT MATRIX TABLE FOR COMPOUNDS IDENTIFIED IN THE VOLATILE ORGANIC ANALYSIS DATA SET; VOLATILE ORGANIC COMPOUNDS VS. CENSUS REGION, CENSUS DIVISION, AND AGE GROUP

## Table A-1. Compounds Identified in the Volatile Organic Analysis Data Set - West Census Region

| | | CENSUS REGION | WEST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MOUNTAIN | | | PACIFIC | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound Name (a) | | | | | | |
| I.S. | Internal Standard | Bromochloropropane - Internal Standard | • | • | • | • | • | • |
| 1 | Carbon Dioxide | Carbon dioxide | • | • | • | • | • | • |
| 2 | Alkane | 2-Methyl-butane | | | | • | • | • |
| 3 | | Unidentified C5.H10 [Cyclopentane] | | | | | • | |
| 4 | | C3 Substituted cyclopropane [Propyl-cyclopropane] | | | | | | |
| 5 | | C3 Substituted cyclopropane [Propyl-cyclopropane] | | | | | | |
| 6 | | 2,3-Dimethyl-hexane | | | | • | • | • |
| 7 | | 1,2-Diethyl-cyclobutane | | | | | | |
| 8 | | Alkane ≥ C10 [Decane] | | | | | | |
| 9 | | C10 Alkane [2-Methyl-nonane] | | • | | | | • |
| 10 | | 2,2,3,3-Tetramethyl-hexane | | | | | | • |
| 11 | | Sat. alkane ≥ C11 [2-Methyl-decane] | | | | | | |
| 12 | | Alkyl substituted hexane [Pentyl-cyclohexane] | | | | | | • |
| 13 | | 2,2-Dimethyl-decane | | | | | • | |
| 14 | | C13 Alkane [3,3-Dimethyl-undecane] | | | | | | |
| 15 | | Alkane [6-Ethyl-2-methyl-decane] | • | | • | | | |
| 16 | | Alkane [2,6,7-Trimethyl-decane] | | | | | | • |
| 17 | | Alkane ≥ C11 [5-(1-Methylpropyl)-nonane] | | | | | | |
| 18 | | C13 Alkane [2,2,7-Trimethyl-decane] | | | | | | |
| 19 | | 3,3,8-Trimethyl-decane | | | | | | |
| 20 | | Alkane [6-Methyl-tridecane] | | | | | | |
| 21 | Alkene | C5 Alkene [1-Pentene] | | | | | | |
| 22 | | 1-Hexene | • | • | | • | • | |
| 23 | | Unidentified C6.H12 [1-Hexene] | | | | | • | |
| 24 | | 3-Methyl-1,4-heptadiene | | | | | | • |
| 25 | | 1,6-Octadiene | | | | | • | |
| 26 | | 1,3,6-Octatriene | • | | • | | | |
| 27 | | Unidentified C8.H12 [3-Ethylidene-1-methyl-cyclopentene] | | | | | | • |
| 28 | | 1-Nonene | | | | | | |
| 29 | | 3-Ethyl-2-methyl-1,3-hexadiene | • | • | • | • | • | • |
| 30 | | C10 Ringed alkane [1,7,7-Trimethyl-bicyclo[2.2.1]hept-2-ene] | • | • | • | • | • | • |
| 31 | | 1-Methyl-4-(1-methylethenyl)-cyclohexene | | | | | | |
| 32 | | 7-(1-Methylethylidene)-bicyclo[4.1.0] heptane | | | | | | • |
| 33 | | C11 Alkene [1-Undecene] | • | | | • | • | |
| 34 | | C11 Alkene [1-Ethenyl-2-hexenyl-cyclopropane] | | | | | | • |
| 35 | | Isomer of Undecen-3-yne [5-Undec-3-yne] | • | | • | | | • |
| 36 | | Isomer of Undecen-3-yne [5-Undec-3-yne] | • | | • | | • | • |
| 37 | Arene | C2 Alkyl benzene [1,2-Dimethyl-benzene] | | | • | | • | • |
| 38 | | C2 Alkyl benzene [1,2-Dimethyl-benzene] | | | | | | |
| 39 | | C3 Alkyl benzene [1,2,4-Trimethyl-benzene] | | | | | | |
| 40 | | C3 Alkyl benzene [1-Methylethyl-benzene] | | | | | | |
| 41 | | Propyl-benzene | | | | | | |
| 42 | | C3 Alkyl benzene [1-Methyl-2-ethyl benzene] | | | | | | |
| 43 | | Isomer of tetramethyl benzene [1,2,3,4-Tetramethyl-benzene] | | | | | | |
| 44 | | 1-Methyl-3-(1-methylethyl-) benzene | | | | | | |
| 45 | | Naphthalene | | | | | | |
| 46 | | 1-Ethylpropyl-benzene | | | | | | |
| 47 | Saturated Alcohol | 3-Methyl-1-butanol | • | | | • | | • |
| 48 | | 1-Hexanol | | | | | | |
| 49 | | Isomer of ethyl hexanol [3-Methyl-1-hexanol] | • | | | | | |
| 50 | | 2-Ethyl-1-Hexanol | • | | | | | |
| 51 | | Isomer of octanol [1-Octanol] | | • | | | | |
| 52 | | Isomer of octanol [1-Octanol] | | • | • | • | • | • |
| 53 | | Unidentified C13.H28.O [1-Tridecanol] | | | | | | |
| 54 | Unsaturated Alcohol | Isomer of Octen-ol [3-Octen-2-ol] | | | | | | |
| 55 | | Isomer of Octen-ol [3-Octen-2-ol] | | | | | | • |
| 56 | Saturated Aldehyde | Unidentified C5.H10.O [Pentanal] | • | • | • | • | • | • |
| 57 | | Unidentifed C6.H12.O [Hexanal] | • | • | • | • | • | • |
| 58 | | C7 Aldehyde [Heptanal] | • | • | • | • | • | • |
| 59 | | Nonanal | • | • | • | • | • | • |
| 60 | | Decanal | | • | • | • | • | • |
| 61 | Unsaturated Aldehyde | 2-Methyl-propenal | | | | | | |
| 62 | | Isomer of Hexenal [2-Hexenal] | | | | • | • | • |
| 63 | | Isomer of Hexenal [2-Hexenal] | • | • | | • | • | |
| 64 | | C7 Unsat. aldehyde [2-Heptenal] | • | • | • | • | • | • |
| 65 | | C7 Unsat. aldehyde [2-Heptenal] | • | | | • | • | • |
| 66 | | 2,4-Heptadienal | | | • | • | | • |

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## Table A-1 (concluded)

| | | CENSUS DIVISION | MOUNTAIN | | | PACIFIC | | |
|---|---|---|---|---|---|---|---|---|
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound Name (a) | | | | | | |
| 67 | | 2,4-Nonadienal | • | • | • | | | |
| 68 | | Isomer of decenal [2-Decenal] | | | | | | |
| 69 | | Isomer of decenal [2-Decenal] | • | • | • | | | • |
| 70 | | Unsat. aldehyde [2-Decenal] | • | • | • | • | • | • |
| 71 | | Unsat. aldehyde [2-Decenal] | • | | | • | • | • |
| 72 | | Unsat. aldehyde [2-Decenal] | • | • | • | • | • | • |
| 73 | | Diene aldehyde [2,4-Decadienal] | | | | • | | |
| 74 | | Diene aldehyde [2,4-Decadienal] | • | • | • | • | | |
| 75 | | Diene aldehyde [2,4-Dodecadienal] | | | | | • | • |
| 76 | Saturated Ketone | C7 Ketone [2-Heptanone] | • | • | | • | • | • |
| 77 | | 4-Heptanone | | • | • | | • | • |
| 78 | | Unidentified C7.H12.O [2,2,3-Trimethyl-cyclobutanone] | | | | | • | |
| 79 | | C8 Ketone [3-Octanone] | | | | | | |
| 80 | | Sat. ketone [2-Decanone] | | | | | | |
| 81 | Unsaturated Ketone | Isomer of Octen-one [3-Octen-2-one] | | | | | | |
| 82 | | C8 Ketone [3-Octen-1-one] | | • | • | • | • | • |
| 83 | | 3,5-Octadien-2-one | | | | | | |
| 84 | | C9 Unsat. ketone [3-Nonen-2-one] | • | | • | • | | • |
| 85 | Saturated Ether | Dimethoxy methane | | | | | | |
| 86 | Saturated Ester | Propanoic acid, ethyl ester | | | | | • | • |
| 87 | | C5 Methyl ester [Butanoic acid, methyl ester] | | | | • | | |
| 88 | | Propanoic acid, propyl ester | | | | | | • |
| 89 | | Pentanoic acid, methyl ester | | | | | | |
| 90 | | C7 Methyl ester [Hexanoic acid, methyl ester] | • | • | • | • | • | • |
| 91 | | 3-Methyl butanoic acid, ethyl ester | | | • | | | |
| 92 | | Propanoic acid, butyl ester | | | | | | |
| 93 | | 2-Methyl propanoic acid, 1-methylethyl ester | | | | | | |
| 94 | | Acetic acid, pentyl ester | | | | | | |
| 95 | | 2-Methyl butanoic acid, ethyl ester | | | | | | |
| 96 | | C8 Ethyl ester [Hexanoic acid, ethyl ester] | | | | • | | • |
| 97 | | Acetic acid, hexyl ester | | • | | | • | |
| 98 | | C8 Ester [3-Methyl butanoic acid, propyl ester] | | | | | | |
| 99 | | C8 Ester [Butanoic acid, 1-Methylpropyl ester] | | | | | | |
| 100 | | C8 Ester [Butanoic acid, 1-Methylpropyl ester] | | | | | | |
| 101 | | Octanoic acid, methyl ester | • | • | | • | | • |
| 102 | | Hexanoic acid, 1-methylethyl ester | | | | | | |
| 103 | | Butanoic acid, pentyl ester | | | • | • | • | |
| 104 | | Hexanoic acid, 2-methylpropyl ester | | | | | | |
| 105 | | Octanoic acid, ethyl ester | | • | • | • | • | • |
| 106 | | C10 Ester [2-Methyl-propanoic acid, hexyl ester] | | | | • | | |
| 107 | | C11 Ester [Hexanoic acid, pentyl ester] | • | | | | • | |
| 108 | | C11 Ester [4-Methyl pentanoic acid, pentyl ester] | | | • | | | |
| 109 | | C11 Ester [Hexanoic acid, 2-Methylbutyl ester] | | | | | | |
| 110 | | Isomer of octanoic acid [3-Methyl-butyl ester] | • | • | | • | • | • |
| 111 | Unsaturated Ester | 3-Octen-1-ol, acetate | | | | | | |
| 112 | Halocarbon | C5 Bromoalkane [1-Bromopentane] | | | | • | | |
| 113 | | 3-Bromo-Pentane | • | • | | | | |
| 114 | | Brominated alkane ≥ C7 [1-Bromo-heptane] | | | | | | |
| 115 | | Dichlorobutane [1,4-dichlorobutane] | | | | | | |
| 116 | | 2-Bromo-2-chloro-1,1,trifluoro-ethane | | | | • | • | • |
| 117 | Phenol | Isomer of ethyl-phenol [4-Ethyl-phenol] | | | • | | | |
| 118 | Heterocycle | Unidentified C9.H14.O [2-Pentyl-furan] | • | • | • | | • | |
| 119 | Sulfide | Dimethyl disulfide | | | | | • | • |
| 120 | | Dimethyl trisulfide | | | | | | |
| 121 | Organo-Silicon | Decamethyl-cyclopentasiloxane | | • | • | • | • | • |

(a) Tentative compound identification is based on search vs. the NBS mass spectral library. Confirmation has not been achieved by comparing retention with an authentic standard. In cases where more than one reference compound successfully matched the unknown spectrum, a general descriptive name is reported and the best ranked NBS name is provided in brackets.

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## Table A-2. Compounds Identified in the Volatile Organic Analysis Data Set - South Census Region

| | | CENSUS REGION | SOUTH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST SOUTH CENTRAL | | | SOUTH ATLANTIC | | | WEST SOUTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound Name (a) | | | | | | | | | |
| I.S. | Internal Standard | Bromochloropropane - Internal Standard | • | • • | • • | • • | • • • • | • • • • | • | • • | • |
| 1 | Carbon Dioxide | Carbon dioxide | • | • • | • • | • • | • • • • | • • • • | • | • • | • |
| 2 | Alkane | 2-Methyl-butane | | • | • | • | • | • • | | | |
| 3 | | Unidentified C5.H10 [Cyclopentane] | • | | | • | | | | • | • |
| 4 | | C3 Substituted cyclopropane [Propyl-cyclopropane] | | • | | • | • • • | • | | • | |
| 5 | | C3 Substituted cyclopropane [Propyl-cyclopropane] | | • | • • | • | • • • | • • • • | | | |
| 6 | | 2,3-Dimethyl-hexane | • | • | • • | | • • • • | • • • • | | • • | |
| 7 | | 1,2-Diethyl-cyclobutane | | | | • • | • • | | | | |
| 8 | | Alkane ≥ C10 [Decane] | • | | • • | | • | • • | | | • |
| 9 | | C10 Alkane [2-Methyl-nonane] | | | | | | | | | |
| 10 | | 2,2,3,3-Tetramethyl-hexane | | | • | | | • | | • | |
| 11 | | Sat. alkane ≥ C11 [2-Methyl-decane] | | • | | • | • | | | • | |
| 12 | | Alkyl substituted hexane [Pentyl-cyclohexane] | | | | | | | | | |
| 13 | | 2,2-Dimethyl-decane | | • | | • • | • | | | | • |
| 14 | | C13 Alkane [3,3-Dimethyl-undecane] | | | | | | | | | |
| 15 | | Alkane [6-Ethyl-2-methyl-decane] | | | | | | | • | • | |
| 16 | | Alkane [2,6,7-Trimethyl-decane] | • | • | • • | • | • • • • | • • | | • | • |
| 17 | | Alkane ≥ C11 [5-(1-Methylpropyl)-nonane] | | | | | | | | | |
| 18 | | C13 Alkane [2,2,7-Trimethyl-decane] | | • | | • | • • | • • | | | |
| 19 | | 3,3,8-Trimethyl-decane | | | | | | | | | |
| 20 | | Alkane [6-Methyl-tridecane] | | | | | | | | • | |
| 21 | Alkene | C5 Alkane [1-Pentene] | • | | | | | • • | | | • |
| 22 | | 1-Hexene | • | | | • | | | • | • | • |
| 23 | | Unidentified C6.H12 [1-Hexene] | • | • | • • | • | • | • | • | • • | • |
| 24 | | 3-Methyl-1,4-heptadiene | | | | | | • | | | |
| 25 | | 1,6-Octadiene | | | | | | | | | |
| 26 | | 1,3,6-Octatriene | | • | | • | | | | | |
| 27 | | Unidentified C8.H12 [3-Ethylidene-1-methyl-cyclopentene] | | | | | | | | | |
| 28 | | 1-Nonene | | • | | • | | • | | • | |
| 29 | | 3-Ethyl-2-methyl-1,3-hexadiene | • | • • | • • | • • | • • • • | • • • • | • | • • | • |
| 30 | | C10 Ringed alkane [1,7,7-Trimethyl-bicyclo[2.2.1]hept-2-ene] | • | • • | • • | • • | • • • • | • • • • | • | • • | • |
| 31 | | 1-Methyl-4-(1-methylethenyl)-cyclohexene | | | | | | | | | |
| 32 | | 7-(1-Methylethylidene)-bicyclo[4.1.0] heptane | | | | | | | | | |
| 33 | | C11 Alkene [1-Undecene] | | • | | • | • | | • | | |
| 34 | | C11 Alkene [1-Ethenyl-2-hexenyl-cyclopropane] | | | • | | | | | | |
| 35 | | Isomer of Undecen-3-yne [5-Undec-3-yne] | | • | • • | • | | • • | | | |
| 36 | | Isomer of Undecen-3-yne [5-Undec-3-yne] | • | • | • • | • | • • • | | • | • • | • |
| 37 | Arene | C2 Alkyl benzene [1,2-Dimethyl-benzene] | • | • • | • • | • | • • • • | • • • | • | • • | • |
| 38 | | C2 Alkyl benzene [1,2-Dimethyl-benzene] | | | | | • • | • | • | • • | • |
| 39 | | C3 Alkyl benzene [1,2,4-Trimethyl-benzene] | | | | | • | • | | | |
| 40 | | C3 Alkyl benzene [1-Methylethyl-benzene] | | | | | | | | | |
| 41 | | Propyl-benzene | | | | | • • • • | • • | | | |
| 42 | | C3 Alkyl benzene [1-Methyl-2-ethyl benzene] | | | | | • • | | | | |
| 43 | | Isomer of tetramethyl benzene [1,2,3,4-Tetramethyl-benzene] | | | | | • | | | | |
| 44 | | 1-Methyl-3-(1-methylethyl-) benzene | | | | | | | | | |
| 45 | | Naphthalene | | | | | | | | • | |
| 46 | | 1-Ethylpropyl-benzene | | | | | | | | | |
| 47 | Saturated Alcohol | 3-Methyl-1-butanol | | • • | • • | | • • • • | • | | • | |
| 48 | | 1-Hexanol | | | | | | | | | |
| 49 | | Isomer of ethyl hexanol [3-Methyl-1-hexanol] | | | | | | | | | • |
| 50 | | 2-Ethyl-1-Hexanol | | | | | • | | | • | |
| 51 | | Isomer of octanol [1-Octanol] | | | • | • | • • | • | | • | • |
| 52 | | Isomer of octanol [1-Octanol] | • | • • | | • | • • | • | • • | • | • |
| 53 | | Unidentified C13.H28.O [1-Tridecanol] | | | | | | | | | |
| 54 | Unsaturated Alcohol | Isomer of Octen-ol [3-Octen-2-ol] | | | | | • | • | | | |
| 55 | | Isomer of Octen-ol [3-Octen-2-ol] | | • | • • | | | • | | • | |
| 56 | Saturated Aldehyde | Unidentified C5.H10.O [Pentanal] | • | • • | • • | • • | • • • • | • • • • | • | • • | • |
| 57 | | Unidentified C6.H12.O [Hexanal] | • | • • | • • | • • | • • • • | • • • • | • | • • | |
| 58 | | C7 Aldehyde [Heptanal] | • | • • | • • | • • | • • • • | • • • • | • | • • | • |
| 59 | | Nonanal | • | • • | • • | • • | • • • • | • • • • | • | • • | • |
| 60 | | Decanal | • | • • | • • | • • | • • • • | • • • | • | • • | • |
| 61 | Unsaturated Aldehyde | 2-Methyl-propenal | | | | • | | | | | |
| 62 | | Isomer of Hexenal [2-Hexenal] | | • | • | • • | • • | • • • | | | |
| 63 | | Isomer of Hexenal [2-Hexenal] | • | • • | • • | • • | • • • | • • | • | | |
| 64 | | C7 Unsat. aldehyde [2-Heptenal] | • | • • | • • | • • | • • • • | • • • • | • | • • | • |
| 65 | | C7 Unsat. aldehyde [2-Heptenal] | • | • | • • | | | • | | • • | • |
| 66 | | 2,4-Heptadienal | | • | • | • | • • • | • • • • | | • | • |

000010

## Table A-2 (concluded)

| | | CENSUS REGION | SOUTH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST SOUTH CENTRAL | | | SOUTH ATLANTIC | | | WEST SOUTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound Name (a) | | | | | | | | | |
| 67 | | 2,4-Nonadienal | • | • | • | • | • • | • • | • | • | |
| 68 | | Isomer of decenal [2-Decenal] | | | | • | | | | | |
| 69 | | Isomer of decenal [2-Decenal] | | • | • | • • | • • | • | | | |
| 70 | | Unsat. aldehyde [2-Decenal] | • | • | • | • | • • • | • • • | • | • • | • |
| 71 | | Unsat. aldehyde [2-Decenal] | | • | • | • • | • • • • | • • • | | • | |
| 72 | | Unsat. aldehyde [2-Decenal] | • | • • | • • | • • | • • • • | • • • | • | • • | • |
| 73 | | Diene aldehyde [2,4-Decadienal] | | | | | | | | | |
| 74 | | Diene aldehyde [2,4-Decadienal] | | | | • | | • | • | • • | • |
| 75 | | Diene aldehyde [2,4-Dodecadienal] | • | • | • • | • | • • • • | • • | | | |
| 76 | Saturated Ketone | C7 Ketone [2-Heptanone] | | • | • • | • | • • • • | • • • • | • | • | • |
| 77 | | 4-Heptanone | • | • | • • | • • | • • | • | • | • | |
| 78 | | Unidentified C7.H12.O [2,2,3-Trimethyl-cyclobutanone] | | | | | • | • | | | |
| 79 | | C8 Ketone [3-Octanone] | | | | | | | | | |
| 80 | | Sat. ketone [2-Decanone] | | | | | | | | | |
| 81 | Unsaturated Ketone | Isomer of Octen-one [3-Octen-2-one] | | • | • | | • | • • | | • | |
| 82 | | C8 Ketone [3-Octen-1-one] | • | • | • | • • | • • • | • • | • | • | • |
| 83 | | 3,5-Octadien-2-one | | | | • | • | • | • | • | |
| 84 | | C9 Unsat. ketone [3-Nonen-2-one] | • | | | • | • • | • • | • | • | |
| 85 | Saturated Ether | Dimethoxy methane | | | | | | | | | |
| 86 | Saturated Ester | Propanoic acid, ethyl ester | | • | • | | • • • | • • • • | | • • | • |
| 87 | | C5 Methyl ester [Butanoic acid, methyl ester] | | | | | | • | | • | |
| 88 | | Propanoic acid, propyl ester | | | | | | • | | • | |
| 89 | | Pentanoic acid, methyl ester | | | | | | | | | |
| 90 | | C7 Methyl ester [Hexanoic acid, methyl ester] | • | • • | • • | • • | • • • • | • • • • | • | • • | |
| 91 | | 3-Methyl butanoic acid, ethyl ester | | | | | | • | • | • • | • |
| 92 | | Propanoic acid, butyl ester | | | | | | | | | • |
| 93 | | 2-Methyl propanoic acid, 1-methylethyl ester | | | | | • | | | • | |
| 94 | | Acetic acid, pentyl ester | | | | | | • | | | |
| 95 | | 2-Methyl butanoic acid, ethyl ester | | | | | | • • | | • | |
| 96 | | C8 Ethyl ester [Hexanoic acid, ethyl ester] | | | | | • | • • | | | |
| 97 | | Acetic acid, hexyl ester | • | • | • | • | • | • • | • | | • |
| 98 | | C8 Ester [3-Methyl butanoic acid, propyl ester] | | | | | | • | | • | • |
| 99 | | C8 Ester [Butanoic acid, 1-Methylpropyl ester] | | | | | | | | | |
| 100 | | C8 Ester [Butanoic acid, 1-Methylpropyl ester] | | | | | | | | • • | |
| 101 | | Octanoic acid, methyl ester | | | | • • | • • • | • • | • | | |
| 102 | | Hexanoic acid, 1-methylethyl ester | | | | | • | | | | |
| 103 | | Butanoic acid, pentyl ester | • | • | | • • | • • | | | • | |
| 104 | | Hexanoic acid, 2-methylpropyl ester | | | | | | • | | | |
| 105 | | Octanoic acid, ethyl ester | | • | | • • | • • | • • | • | • • | • |
| 106 | | C10 Ester [2-Methyl-propanoic acid, hexyl ester] | | | | • | • | • • | | | |
| 107 | | C11 Ester [Hexanoic acid, pentyl ester] | • | • | | • | • • | • • | • | • | • |
| 108 | | C11 Ester [4-Methyl pentanoic acid, pentyl ester] | | | | | | • • | | | |
| 109 | | C11 Ester [Hexanoic acid, 2-Methylbutyl ester] | | | | | | | | • | |
| 110 | | Isomer of octanoic acid [3-Methyl-butyl ester] | | • | • | • • | • • | • | | | • |
| 111 | Unsaturated Ester | 3-Octen-1-ol, acetate | | | | | | | | | |
| 112 | Halocarbon | C5 Bromoalkane [1-Bromopentane] | | | • | | | | | | |
| 113 | | 3-Bromo-Pentane | | | | | | | | | |
| 114 | | Brominated alkane ≥ C7 [1-Bromo-heptane] | | | | | | | | | |
| 115 | | Dichlorobutane [1,4-dichlorobutane] | | | | | | • | | • | |
| 116 | | 2-Bromo-2-chloro-1,1,trifluoro-ethane | • | • | • | | | | | • | • |
| 117 | Phenol | Isomer of ethyl-phenol [4-Ethyl-phenol] | | | | • • | | | • | | |
| 118 | Heterocycle | Unidentified C9.H14.O [2-Pentyl-furan] | • | | • | • • | | • | • | • • | • |
| 119 | Sulfide | Dimethyl disulfide | | • | | • | • • • • | • • • • | | • • | • |
| 120 | | Dimethyl trisulfide | | | | | | | | | |
| 121 | Organo-Silicon | Decamethyl-cyclopentasiloxane | • | • • | • | | • • • | • • • • | • | • • | • |

(a) Tentative compound identification is based on search vs. the NBS mass spectral library. Confirmation has not been achieved by comparing retention with an authentic standard. In cases where more than one reference compound successfully matched the unknown spectrum, a general descriptive name is reported and the best ranked NBS name is provided in brackets.

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Table A-3. Compounds Identified in the Volatile Organic Analysis Data Set - North Central Census Region

| | | CENSUS REGION | NORTH CENTRAL | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST NORTH CENTRAL | | | WEST NORTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound Name (a) | | | | | | |
| I.S | Internal Standard | Bromochloropropane - Internal Standard | • • | • • • | • • • | • | • | • • |
| 1 | Carbon Dioxide | Carbon dioxide | • • | • • • | • • | • | • | • • |
| 2 | Alkane | 2-Methyl-butane | • | • | • | • | | |
| 3 | | Unidentified C5.H10 [Cyclopentane] | • | | | | | |
| 4 | | C3 Substituted cyclopropane [Propyl-cyclopropane] | • | • • | • • | | | |
| 5 | | C3 Substituted cyclopropane [Propyl-cyclopropane] | • | • • | • • | | | • |
| 6 | | 2,3-Dimethyl-hexane | | • • • | • • • | • | • | |
| 7 | | 1,2-Diethyl-cyclobutane | | | | | | |
| 8 | | Alkane ≥ C10 [Decane] | • | • • | • • | • | | • |
| 9 | | C10 Alkane [2-Methyl-nonane] | • | | • | | • | • |
| 10 | | 2,2,3,3-Tetramethyl-hexane | | | • • | | | |
| 11 | | Sat. alkane ≥ C11 [2-Methyl-decane] | | • | | | • | |
| 12 | | Alkyl substituted hexane [Pentyl-cyclohexane] | | | | | | |
| 13 | | 2,2-Dimethyl-decane | • | • | • • • | | | • |
| 14 | | C13 Alkane [3,3-Dimethyl-undecane] | | | • | | | |
| 15 | | Alkane [6-Ethyl-2-methyl-decane] | | | | | | • |
| 16 | | Alkane [2,6,7-Trimethyl-decane] | | | • • • | • | | |
| 17 | | Alkane ≥ C11 [5-(1-Methylpropyl)-nonane] | | | | | | • |
| 18 | | C13 Alkane [2,2,7-Trimethyl-decane] | • | • | • • | | | |
| 19 | | 3,3,8-Trimethyl-decane | | | • | | | |
| 20 | | Alkane [6-Methyl-tridecane] | • | | • | | | • |
| 21 | Alkene | C5 Alkane [1-Pentene] | | | | | | |
| 22 | | 1-Hexene | • | • • | | | | • |
| 23 | | Unidentified C6.H12 [1-Hexene] | • | • • | • • | • | | • |
| 24 | | 3-Methyl-1,4-heptadiene | | | • | | | • |
| 25 | | 1,6-Octadiene | • | | | • | | |
| 26 | | 1,3,6-Octatriene | • | | • • | | | • |
| 27 | | Unidentified C6.H12 [3-Ethylidene-1-methyl-cyclopentene] | | | | | | |
| 28 | | 1-Nonene | | | | • | • | |
| 29 | | 3-Ethyl-2-methyl-1,3-hexadiene | • • | • • • | • • • | • | • | |
| 30 | | C10 Ringed alkane [1,7,7-Trimethyl-bicyclo[2.2.1]hept-2-ene] | • | • • • | • • • | • | • | • • |
| 31 | | 1-Methyl-4-(1-methylethenyl)-cyclohexene | • | | | | | |
| 32 | | 7-(1-Methylethylidene)-bicyclo[4.1.0] heptane | | | | | | |
| 33 | | C11 Alkene [1-Undecene] | | • | | | | |
| 34 | | C11 Alkene [1-Ethenyl-2-hexenyl-cyclopropane] | | | | | | |
| 35 | | Isomer of Undecen-3-yne [5-Undec-3-yne] | | • • | • • | • | | • |
| 36 | | Isomer of Undecen-3-yne [5-Undec-3-yne] | • • | • | • • | • | • | • |
| 37 | Arene | C2 Alkyl benzene [1,2-Dimethyl-benzene] | • • | • • • | • • • | • | • | • • |
| 38 | | C2 Alkyl benzene [1,2-Dimethyl-benzene] | • | • • • | • • | | | • • |
| 39 | | C3 Alkyl benzene [1,2,4-Trimethyl-benzene] | | | | | | |
| 40 | | C3 Alkyl benzene [1-Methylethyl-benzene] | | | | | • | |
| 41 | | Propyl-benzene | | | | | • | • |
| 42 | | C3 Alkyl benzene [1-Methyl-2-ethyl benzene] | | | | | | • |
| 43 | | Isomer of tetramethyl benzene [1,2,3,4-Tetramethyl-benzene] | | | | | | |
| 44 | | 1-Methyl-3-(1-methylethyl-) benzene | | | • | | • | |
| 45 | | Naphthalene | | | | | | |
| 46 | | 1-Ethylpropyl-benzene | | | | | • | |
| 47 | Saturated Alcohol | 3-Methyl-1-butanol | • • | • • | • • • | • | • | • • |
| 48 | | 1-Hexanol | | • | | | | |
| 49 | | Isomer of ethyl hexanol [3-Methyl-1-hexanol] | | | | | | |
| 50 | | 2-Ethyl-1-Hexanol | | • • | • | | | |
| 51 | | Isomer of octanol [1-Octanol] | • • | | • | | | |
| 52 | | Isomer of octanol [1-Octanol] | • • | • • | • • | | | |
| 53 | | Unidentified C13.H28.O [1-Tridecanol] | | | | | | • |
| 54 | Unsaturated Alcohol | Isomer of Octen-ol [3-Octen-2-ol] | | | | | | |
| 55 | | Isomer of Octen-ol [3-Octen-2-ol] | • | • • | • • | | • | • |
| 56 | Saturated Aldehyde | Unidentified C5.H10.O [Pentanal] | • • | • • • | • • • | • | • | • • |
| 57 | | Unidentifed C6.H12.O [Hexanal] | • • | • • • | • • • | • | • | • • |
| 58 | | C7 Aldehyde [Heptanal] | • • | • • • | • • • | • | • | • • |
| 59 | | Nonanal | • • | • • • | • • • | • | • | • • |
| 60 | | Decanal | • • | • • • | • • | • | • | • • |
| 61 | Unsaturated Aldehyde | 2-Methyl-propenal | | | | | | |
| 62 | | Isomer of Hexenal [2-Hexenal] | | • | • | | | • |
| 63 | | Isomer of Hexenal [2-Hexenal] | | • • | • • | • | | • |
| 64 | | C7 Unsat. aldehyde [2-Heptenal] | • • | • • • | • • • | • | • | • • |
| 65 | | C7 Unsat. aldehyde [2-Heptenal] | • • | • | • • • | | | • |
| 66 | | 2,4-Heptadienal | • | • • | • • • | | • | • • |

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## Table A-3 (concluded)

| | | CENSUS REGION | NORTH CENTRAL | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST NORTH CENTRAL | | | WEST NORTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound Name (a) | | | | | | |
| 67 | | 2,4-Nonadienal | • | • | • | • | • | |
| 68 | | Isomer of decenal [2-Decenal] | | | | | | |
| 69 | | Isomer of decenal [2-Decenal] | | • • | • • | • | • | • |
| 70 | | Unsat. aldehyde [2-Decenal] | | • • | • | | | |
| 71 | | Unsat. aldehyde [2-Decenal] | | • • | • | • | • | |
| 72 | | Unsat. aldehyde [2-Decenal] | | • • • | • • • | • | • | • • |
| 73 | | **Diene aldehyde [2,4-Decadienal]** | | | | | | |
| 74 | | **Diene aldehyde [2,4-Decadienal]** | • | | | | | |
| 75 | | Diene aldehyde [2,4-Dodecadienal] | | • • | • • • | | • | • |
| 76 | Saturated Ketone | C7 Ketone [2-Heptanone] | | • • | • • • | | • | • • |
| 77 | | 4-Heptanone | | • • • | • • • | • | • | • • |
| 78 | | Unidentified C7.H12.O [2,2,3-Trimethyl-cyclobutanone] | | • • | | | | |
| 79 | | C8 Ketone [3-Octanone] | | | | | | • |
| 80 | | Sat. ketone [2-Decanone] | | | | • | | |
| 81 | Unsaturated Ketone | Isomer of Octen-one [3-Octen-2-one] | | • | | | | |
| 82 | | **C8 Ketone [3-Octen-1-one]** | | • • | • • • | • | • | • • |
| 83 | | **3,5-Octadien-2-one** | | | | • | | |
| 84 | | C9 Unsat. ketone [3-Nonen-2-one] | | | • | • | | |
| 85 | Saturated Ether | Dimethoxy methane | | | | | | |
| 86 | Saturated Ester | Propanoic acid, ethyl ester | | • • • | • • • | | • | • • |
| 87 | | C5 Methyl ester [Butanoic acid, methyl ester] | | | • | | | |
| 88 | | Propanoic acid, propyl ester | | | | | • | • |
| 89 | | Pentanoic acid, methyl ester | | | • | | | |
| 90 | | C7 Methyl ester [Hexanoic acid, methyl ester] | • | • • • | • • • | • | • | • |
| 91 | | 3-Methyl butanoic acid, ethyl ester | • | • • | • • • | • | • | • |
| 92 | | Propanoic acid, butyl ester | | | | | | |
| 93 | | 2-Methyl propanoic acid, 1-methylethyl ester | | | | | • | • |
| 94 | | Acetic acid, pentyl ester | • | | | | | |
| 95 | | 2-Methyl butanoic acid, ethyl ester | | | • | | | |
| 96 | | C8 Ethyl ester [Hexanoic acid, ethyl ester] | | | | | | • |
| 97 | | Acetic acid, hexyl ester | | • | • | • | | • |
| 98 | | C8 Ester [3-Methyl butanoic acid, propyl ester] | | • • | | | | • |
| 99 | | C8 Ester [Butanoic acid, 1-Methylpropyl ester] | | | | | • | |
| 100 | | C8 Ester [Butanoic acid, 1-Methylpropyl ester] | | | | | • | |
| 101 | | Octanoic acid, methyl ester | • | • • | • | • | | |
| 102 | | Hexanoic acid, 1-methylethyl ester | | | | | | |
| 103 | | Butanoic acid, pentyl ester | | • • • | | • | | |
| 104 | | Hexanoic acid, 2-methylpropyl ester | | | | | | |
| 105 | | Octanoic acid, ethyl ester | • | • • • | • • • | • | • | • • |
| 106 | | C10 Ester [2-Methyl-propanoic acid, hexyl ester] | | • • | • | | | • |
| 107 | | C11 Ester [Hexanoic acid, pentyl ester] | | • • | • | | | |
| 108 | | C11 Ester [4-Methyl pentanoic acid, pentyl ester] | | • • | | | | |
| 109 | | C11 Ester [Hexanoic acid, 2-Methylbutyl ester] | | • • | | | | |
| 110 | | **Isomer of octanoic acid [3-Methyl-butyl ester]** | • | | • • | | | • |
| 111 | Unsaturated Ester | 3-Octen-1-ol, acetate | | | | | | |
| 112 | Halocarbon | C5 Bromoalkane [1-Bromopentane] | | | | • | | |
| 113 | | 3-Bromo-Pentane | | | | | | • |
| 114 | | Brominated alkane ≥ C7 [1-Bromo-heptane] | | | | • | | |
| 115 | | Dichlorobutane [1,4-dichlorobutane] | | | | | • | |
| 116 | | 2-Bromo-2-chloro-1,1,trifluoro-ethane | | • • • | • | • | • | • • |
| 117 | Phenol | **Isomer of ethyl-phenol [4-Ethyl-phenol]** | | | | | | |
| 118 | Heterocycle | **Unidentified C9.H14.O [2-Pentyl-furan]** | | • • | • | • | • | • |
| 119 | Sulfide | Dimethyl disulfide | | | • • • | | • | • • |
| 120 | | Dimethyl trisulfide | | | • | | | • |
| 121 | Organo-Silicon | Decamethyl-cyclopentasiloxane | | | • • • | | | • • |

(a) Tentative compound identification is based on search vs. the NBS mass spectral library. Confirmation has not been achieved by comparing retention with an authentic standard. In cases where more than one reference compound successfully matched the unknown spectrum, a general descriptive name is reported and the best ranked NBS name is provided in brackets.

Table A-4. Compounds Identified in the Volatile Organic Analysis Data Set - Northeast Census Region

| | | CENSUS REGION | NORTHEAST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MIDDLE ATLANTIC | | | NEW ENGLAND | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound Name (a) | | | | | | |
| I.S | Internal Standard | Bromochloropropane - Internal Standard | • • | • • | • • | • | • | • |
| 1 | Carbon Dioxide | Carbon dioxide | • • | • • | • • | • | • | • |
| 2 | Alkane | 2-Methyl-butane | • | • | • | • | • | |
| 3 | | Unidentified C5.H10 [Cyclopentane] | | | | | • | |
| 4 | | C3 Substituted cyclopropane [Propyl-cyclopropane] | | | • | | | |
| 5 | | C3 Substituted cyclopropane [Propyl-cyclopropane] | • | • | • • | | • | |
| 6 | | 2,3-Dimethyl-hexane | • • | • | • | • | • | • |
| 7 | | 1,2-Diethyl-cyclobutane | | | | | | |
| 8 | | Alkane ≥ C10 [Decane] | • | • | | | | |
| 9 | | C10 Alkane [2-Methyl-nonane] | • | | | | • | • |
| 10 | | 2,2,3,3-Tetramethyl-hexane | • | • | • • | | | |
| 11 | | Sat. alkane ≥ C11 [2-Methyl-decane] | | | | | | |
| 12 | | Alkyl substituted hexane [Pentyl-cyclohexane] | | | | | | |
| 13 | | 2,2-Dimethyl-decane | • | | | | | |
| 14 | | C13 Alkane [3,3-Dimethyl-undecane] | | | | | | |
| 15 | | Alkane [5-Ethyl-2-methyl-decane] | | • | • | | • | |
| 16 | | Alkane [2,6,7-Trimethyl-decane] | | • | • | | | • |
| 17 | | Alkane ≥ C11 [5-(1-Methylpropyl)-nonane] | | | | | | |
| 18 | | C13 Alkane [2,2,7-Trimethyl-decane] | | | | | | |
| 19 | | 3,3,8-Trimethyl-decane | | | | | | |
| 20 | | Alkane [6-Methyl-tridecane] | | | | | | |
| 21 | Alkene | C5 Alkane [1-Pentene] | | | | | | |
| 22 | | 1-Hexene | • | | • | | | |
| 23 | | Unidentified C6.H12 [1-Hexene] | • | • • | • • | | | |
| 24 | | 3-Methyl-1,4-heptadiene | | | | | | |
| 25 | | 1,6-Octadiene | • | | | | | |
| 26 | | 1,3,6-Octatriene | | • | • | | | • |
| 27 | | Unidentified C8.H12 [3-Ethylidene-1-methyl-cyclopentene] | | | | | | |
| 28 | | 1-Nonene | | • | • | | | |
| 29 | | 3-Ethyl-2-methyl-1,3-hexadiene | • • | • • | • • | • | • | • |
| 30 | | C10 Ringed alkane [1,7,7-Trimethyl-bicyclo[2.2.1]hept-2-ene] | • • | • • | • • | | • | • |
| 31 | | 1-Methyl-4-(1-methylethenyl)-cyclohexene | | | | | | |
| 32 | | 7-(1-Methylethylidene)-bicyclo[4.1.0] heptane | | | | | | |
| 33 | | C11 Alkene [1-Undecene] | | | | | | |
| 34 | | C11 Alkene [1-Ethenyl-2-hexenyl-cyclopropane] | | | | | | |
| 35 | | Isomer of Undecen-3-yne [5-Undec-3-yne] | • | • | | | | |
| 36 | | Isomer of Undecen-3-yne [5-Undec-3-yne] | • | • • | • • | | • | • |
| 37 | Arene | C2 Alkyl benzene [1,2-Dimethyl-benzene] | • • | • • | • • | • | • | • |
| 38 | | C2 Alkyl benzene [1,2-Dimethyl-benzene] | | | | | | • |
| 39 | | C3 Alkyl benzene [1,2,4-Trimethyl-benzene] | | | | | | |
| 40 | | C3 Alkyl benzene [1-Methylethyl-benzene] | | | | | | |
| 41 | | Propyl-benzene | | | | | | |
| 42 | | C3 Alkyl benzene [1-Methyl-2-ethyl benzene] | | | | | | |
| 43 | | Isomer of tetramethyl benzene [1,2,3,4-Tetramethyl-benzene] | | | | | | |
| 44 | | 1-Methyl-3-(1-methylethyl-) benzene | | | | | | |
| 45 | | Naphthalene | | | | | | |
| 46 | | 1-Ethylpropyl-benzene | | | | | | |
| 47 | Saturated Alcohol | 3-Methyl-1-butanol | • • | • • | • • | | | |
| 48 | | 1-Hexanol | | | | | | |
| 49 | | Isomer of ethyl hexanol [3-Methyl-1-hexanol] | | • | | | | |
| 50 | | 2-Ethyl-1-Hexanol | | | | | | • |
| 51 | | Isomer of octanol [1-Octanol] | | | | • | | |
| 52 | | Isomer of octanol [1-Octanol] | • • | • • | • • | • | | • |
| 53 | | Unidentified C13.H28.O [1-Tridecanol] | | | | | | |
| 54 | Unsaturated Alcohol | Isomer of Octen-ol [3-Octen-2-ol] | | | | | | |
| 55 | | Isomer of Octen-ol [3-Octen-2-ol] | • • | | | | | |
| 56 | Saturated Aldehyde | Unidentified C5.H10.O [Pentanal] | • • | • • | • • | • | • | • • |
| 57 | | Unidentified C6.H12.O [Hexanal] | • • | • • | • • | • | • | • |
| 58 | | C7 Aldehyde [Heptanal] | • • | • • | • • | • | • | • |
| 59 | | Nonanal | • • | • • | • • | • | • | • |
| 60 | | Decanal | • • | • • | • • | • | • | • |
| 61 | Unsaturated Aldehyde | 2-Methyl-propenal | | | | | | |
| 62 | | Isomer of Hexenal [2-Hexenal] | • | • | • | • | | • |
| 63 | | Isomer of Hexenal [2-Hexenal] | • • | • • | • • | • | • | • |
| 64 | | C7 Unsat. aldehyde [2-Heptenal] | • • | • • | • • | • | • | • |
| 65 | | C7 Unsat. aldehyde [2-Heptenal] | • • | • | | • | | |
| 66 | | 2,4-Heptadienal | • • | • • | • • | • | • | |

000014

## Table A-4 (concluded)

| | | | CENSUS REGION | | | NORTHEAST | | |
|---|---|---|---|---|---|---|---|---|
| | | | CENSUS DIVISION | MIDDLE ATLANTIC | | | NEW ENGLAND | |
| | | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound Name (a) | | | | | | | |
| 67 | | 2,4-Nonadienal | | • • | • • | • • | • | • | • |
| 68 | | Isomer of decenal [2-Decenal] | | | | | | | |
| 69 | | Isomer of decenal [2-Decenal] | | | • • | • • | | • | • |
| 70 | | Unsat. aldehyde [2-Decenal] | | • • | • | | • | | |
| 71 | | Unsat. aldehyde [2-Decenal] | | • • | • | • | • | • | • |
| 72 | | Unsat. aldehyde [2-Decenal] | | • • | • • | • • | • | • | • |
| 73 | | Diene aldehyde [2,4-Decadienal] | | | | | | | |
| 74 | | Diene aldehyde [2,4-Decadienal] | | • | • | • • | | | |
| 75 | | Diene aldehyde [2,4-Dodecadienal] | | • • | | | • | • | • |
| 76 | Saturated Ketone | C7 Ketone [2-Heptanone] | | • • | • | • | • | • | |
| 77 | | 4-Heptanone | | • • | • • | • • | • | | • |
| 78 | | Unidentified C7.H12.O [2,2,3-Trimethyl-cyclobutanone] | | | | | • | • | |
| 79 | | C8 Ketone [3-Octanone] | | | | | | | |
| 80 | | Sat. ketone [2-Decanone] | | | | | | | |
| 81 | Unsaturated Ketone | Isomer of Octen-one [3-Octen-2-one] | | | • | • | | | |
| 82 | | C8 Ketone [3-Octen-1-one] | | • • | • • | • | • | • | • |
| 83 | | 3,5-Octadien-2-one | | | | | | | |
| 84 | | C9 Unsat. ketone [3-Nonen-2-one] | | • | • | • • | • | • | • |
| 85 | Saturated Ether | Dimethoxy methane | | | | | | | • |
| 86 | Saturated Ester | Propanoic acid, ethyl ester | | • • | • | • | | | |
| 87 | | C5 Methyl ester [Butanoic acid, methyl ester] | | | | | | | |
| 88 | | Propanoic acid, propyl ester | | | | | | | |
| 89 | | Pentanoic acid, methyl ester | | | | | | | |
| 90 | | C7 Methyl ester [Hexanoic acid, methyl ester] | | • • | • • | • | • | • | • |
| 91 | | 3-Methyl butanoic acid, ethyl ester | | | | | | | |
| 92 | | Propanoic acid, butyl ester | | | | | | | |
| 93 | | 2-Methyl propanoic acid, 1-methylethyl ester | | | | | | | |
| 94 | | Acetic acid, pentyl ester | | | • | | | | |
| 95 | | 2-Methyl butanoic acid, ethyl ester | | | | | | | |
| 96 | | C8 Ethyl ester [Hexanoic acid, ethyl ester] | | • • | • | | | | |
| 97 | | Acetic acid, hexyl ester | | • | | | | | |
| 98 | | C8 Ester [3-Methyl butanoic acid, propyl ester] | | | | | | | |
| 99 | | C8 Ester [Butanoic acid, 1-Methylpropyl ester] | | | | | | | |
| 100 | | C8 Ester [Butanoic acid, 1-Methylpropyl ester] | | | | | | | |
| 101 | | Octanoic acid, methyl ester | | • • | • • | • | • | • | • |
| 102 | | Hexanoic acid, 1-methylethyl ester | | | | | | | |
| 103 | | Butanoic acid, pentyl ester | | | • | • | • | | |
| 104 | | Hexanoic acid, 2-methylpropyl ester | | | | | | | |
| 105 | | Octanoic acid, ethyl ester | | • • | • • | • • | • | • | |
| 106 | | C10 Ester [2-Methyl-propanoic acid, hexyl ester] | | | | • | • | | |
| 107 | | C11 Ester [Hexanoic acid, pentyl ester] | | • • | • | • | • | • | • |
| 108 | | C11 Ester [4-Methyl pentanoic acid, pentyl ester] | | | | | | | |
| 109 | | C11 Ester [Hexanoic acid, 2-Methylbutyl ester] | | | | | | | |
| 110 | | Isomer of octanoic acid [3-Methyl-butyl ester] | | | • | • | • | • | |
| 111 | Unsaturated Ester | 3-Octen-1-ol, acetate | | | | | | | |
| 112 | Halocarbon | C5 Bromoalkane [1-Bromopentane] | | | | | | | |
| 113 | | 3-Bromo-Pentane | | | | | | | |
| 114 | | Brominated alkane ≥ C7 [1-Bromo-heptane] | | | | | | | |
| 115 | | Dichlorobutane [1,4-dichlorobutane] | | | | | | | |
| 116 | | 2-Bromo-2-chloro-1,1,1trifluoro-ethane | | | | | | • | |
| 117 | Phenol | Isomer of ethyl-phenol [4-Ethyl-phenol] | | | | • | | | |
| 118 | Heterocycle | Unidentified C9.H14.O [2-Pentyl-furan] | | • • | • | • • | • | • | • |
| 119 | Sulfide | Dimethyl disulfide | | | | | • | | |
| 120 | | Dimethyl trisulfide | | | | | | | |
| 121 | Organo-Silicon | Decamethyl-cyclopentasiloxane | | • | | | | | • |

(a) Tentative compound identification is based on search vs. the NBS mass spectral library. Confirmation has not been achieved by comparing retention with an authentic standard. In cases where more than one reference compound successfully matched the unknown spectrum, a general descriptive name is reported and the best ranked NBS name is provided in brackets.

APPENDIX B

DOT MATRIX TABLE FOR COMPOUNDS IDENTIFIED IN THE 6% FLORISIL SEMIVOLATILE ORGANIC ANALYSIS DATA SET; SEMIVOLATILE ORGANIC COMPOUNDS VS. CENSUS REGION, CENSUS DIVISION, AND AGE GROUP

Table B-1. Compounds Identified in the 6% Florisil Semivolatile Organic Analysis Data Set - West Census Region

| | | CENSUS DIVISION | MOUNTAIN | | | PACIFIC | | |
|---|---|---|---|---|---|---|---|---|
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound (a) | | | | | | |
| I.S. | Internal Standard | D10-Anthracene | • | • | • | • | | • |
| 1 | Alkane | 2,6,10,14-Tetramethyl-hexadecane | | | | | | • |
| 2 | | 2,6,10,14-Tetramethyl-nonadecane | | | | | | |
| 3 | | Alkane ≥ C18 [2,6,10,14,19-Pentamethyl eicosane] | | | | | | |
| 4 | Saturated Ketone | 1,2,4-Cyclopentatrione | | | | | | |
| 5 | Saturated Ester | 12-Methyl-tridecanoic acid, methyl ester | | • | | | | |
| 6 | | Nonanedioic acid, bis(1-methylpropyl) ester | | | | | | • |
| 7 | | 9-Octadecenoic acid, ethyl ester | | • | | • | | • |
| 8 | Sulfide | Methyl 2-methyl-1-(methylthio)butyl disulfide | | | | | | |
| 9 | | Dimethyl trisulfide | | | | | | |
| 10 | Dipeptide | Glycine, anhydride | | | | • | | |
| 11 | Alkene | C5 Substituted naphthalene [Octahydro-tetramethyl-1H-cyclopropan[A]naphthalene] | | | | • | | • |
| 12 | | Hexahydro-4,7-dimethyl-1-(1-methylethyl)-naphthalene... | | | | | | |
| 13 | | 5-Ethylidene-1-methyl-cycloheptene | | • | • | • | | • |
| 14 | | C30 Unsat. hydrocarbon [Hexamethyl-tetracosahexaene] | | | | | | |
| 15 | | Ylangene | | | | | | • |
| 16 | Unsaturated Aldehyde | 2-Butyl-2-octenal | | | | | | |
| 17 | | Unidentified C9.H8.O [Cyclooctatetraene-1-carboxaldehyde] | | | | | | |
| 18 | Unsaturated Amine | N,N-Dimethyl-3-octen-2-amine | | • | | | | |
| 19 | Unsaturated Ketone | 6,10-Dimethyl-5,9-undecadien-2-one | | • | | | | |
| 20 | Arene | C4 Alkyl benzene [1-Ethyl-2,3-dimethyl benzene] | | | | | | |
| 21 | | 2-Ethyl-1,3-dimethyl-benzene | | | | | | |
| 22 | | C4 Alkyl benzene [4-Ethyl-1,2-dimethyl-benzene] | | | | | | |
| 23 | | C4 Alkyl benzene [Diethyl benzene] | | | | | | |
| 24 | | C4 Alkyl benzene [Methyl(1-methylethyl)-benzene] | | | | | | |
| 25 | | Cyclohexyl-benzene | | • | • | | | |
| 26 | | C3 Alkyl benzene [1,3,5-Trimethyl-benzene] | | | | • | | |
| 27 | | C4 Alkyl benzene [1-Ethyl-2,3-dimethyl benzene] | | | | | | |
| 28 | | C5 Alkyl benzene [1-Ethyl-4-(1-methylethyl)-benzene] | | | | | | |
| 29 | | C3 Alkyl benzene [1-Ethyl-3-methyl-benzene] | | | | | | |
| 30 | | C3 Alkyl benzene [1-Ethyl-2-methyl-benzene] | | | | | | |
| 31 | | C3 Alkyl benzene [1,3,5-Trimethyl-benzene | | | | | | |
| 32 | | C3 Alkyl benzene [1,3,5-Trimethyl-benzene | | | • | | | |
| 33 | | C4 Alkyl benzene [1-Ethyl-2,4-dimethyl-benzene] | | | | | | |
| 34 | | 2-Methyl-naphthalene | | | | | | |
| 35 | | Unidentified C10.H12 [2,3-Dihydro-1-methyl-1H-Indene] | | | | | | |
| 36 | | Unidentified C15.H24 [Hexahydro-tetramethyl-1H-benzocycloheptene] | | | | | | |
| 37 | | Unsat. C4 alkyl benzene [4-Ethenyl-1,2-dimethyl-benzene] | | | | | | |
| 38 | | 2-Propenyl-benzene | | | | | | |
| 39 | [illegible] | [illegible] | | | | • | | |
| 40 | | 4-Pentyl-benzaldehyde | | • | | | | |
| 41 | Aromatic Ketone | Unidentified C9.H8.O [2,3-Dihydro-1H-Inden-1-one] | | • | | | | |
| 42 | | 1-Phenyl-ethanone | | • | | | | |
| 43 | Phenol | 2,6-Bis(1,1-dimethylethyl)-4-methyl-phenol | | | | | | |
| 44 | | [1,1'-Biphenyl]-2-ol | | | • | | | |
| 45 | | 2,2'-Methylenebis[6-(1,1-dimethylethyl)-4-methyl-phenol | | | • | | | • |
| 46 | Aromatic Ester | Benzenepropanoic acid, ethyl ester | | | | | | |
| 47 | Aromatic Ether | 1,1'-Oxybis-benzene | | • | • | | | • |
| 48 | | 1-Methoxy-4-(1-propenyl)-benzene | | | | | | |
| 49 | Aromatic Amine | C2 Alkyl benzenamine [3,5-Dimethyl-benzenamine] | | | • | | | • |
| 50 | Aromatic Oxime | 4-Methyl benzaldehyde, oxime | | • | • | • | | • |
| 51 | Thiocyanic Ester | Thiocyanic acid, phenyl ester | | | | | | |
| 52 | Heterocyclic Compound | 2,3,5-Trimethyl-1H-pyrrole | | | | • | | |
| 53 | | Unidentified C8 H7.N [1H-Indole] | | | | | | |
| 54 | | Unidentified C8.H7.N [Indolizine] | | | • | | | |
| 55 | | 2-(Methylthio)-benzothiazole | | | | | | |
| 56 | | 5-(2-Propenyl)-1,3-Benzodioxole | | | | | | |
| 57 | | 1,4-Dioxaspiro[4.6]undec-7-ene | | | | | | |
| 58 | | 2,4-Dihydro-2,5-dimethyl-3H-pyrazol-3-one | | | | • | | |

## Table B-1 (concluded)

| | | CENSUS DIVISION | MOUNTAIN | | | PACIFIC | | |
|---|---|---|---|---|---|---|---|---|
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound (a) | | | | | | |
| 59 | | 5,5-Diethyl-2,4-imidazolidinedione | | | | | | |
| 60 | Steroid | (5.Alpha.)-cholest-3-ene | | | | | | |
| 61 | | (3.Beta.)- Cholest-5-en-3-ol acetate | | | | | | |
| 62 | | Cholest-5-en-3-ol- (3.beta.)-, propanoate | | | | | | |
| 63 | | Cholest-5-en-3-one | | | • | | | |
| 64 | | Cholest-5-ene | | | • | | | |
| 65 | | (5.Alpha.)-cholest-7-en-3-one | | | | | | |
| 66 | | Cholesta-3,5-dien-7-one | | | | | | |
| 67 | | (3.Beta.)-cholesta-4,6-dien-3-ol benzoate | | | • | | | |
| 68 | | Cholesterol | | | • | | | |
| 69 | | Isomer of cholestenol [5-cholesten-3-ol propionate] | | • | • | | | • |
| 70 | | Pregnane, (5.alpha.)- | | | | | | • |
| 71 | | (3.Beta.)-26,27-dinorergost-5-en-3-ol benzoate | | | | | | |
| 72 | Chlorinated Hydrocarbon | 1,1-Dichloro-1-propene | | | | | | |
| 73 | | (4-Chlorophenyl)phenyl-methanone | | • | | | | |
| 74 | | 2-Chloro-6-methyl-benzonitrile | | | | | | |
| 75 | | Dichlorobenzene [1,3-dichloro-benzene] | | | | • | | |
| 76 | | Lindane | | | | | | |
| 77 | | DDD | | | | | | |
| 78 | Organo-Silicon | Isomer of decamethyl-cyclopentasiloxane | | • | • | • | | • |
| 79 | | Octamethyl-cyclotetrasiloxane | • | | • | • | | • |
| 80 | | Isomer of decamethyl-cyclopentasiloxane | | | | | | • |
| 81 | Phthalate | Diheptyl phthalate | | | | | | • |

(a) Tentative compound identification is based on search vs. the NBS mass spectral library. Confirmation has not been achieved by comparing retention with an authentic standard. In cases where more than one reference compound successfully matched the unknown spectrum, a general descriptive name is reported and the best ranked NBS name is provided in brackets.

Table B-2. Compounds Identified in the 6% Florisil Semivolatile Organic Analysis Data Set - South Census Region

| | | CENSUS REGION | SOUTH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST SOUTH CENTRAL | | | SOUTH ATLANTIC | | | WEST SOUTH CENTRA | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 4 |
| Index | Compound Class | Compound (a) | | | | | | | | | |
| I.S. | Internal Standard | D10-Anthracene | | • | • • | • • | • • • • | • • • • | • | • • | |
| 1 | Alkane | 2,6,10,14-Tetramethyl-hexadecane | | | • • | • • | • | • • • | | • | |
| 2 | | 2,6,10,14-Tetramethyl-nonadecane | | | • | | • • | | | | |
| 3 | | Alkane ≥ C18 [2,6.10,14,19-Pentamethyl eicosane] | | | • | | | | | | |
| 4 | Saturated Ketone | 1,2,4-Cyclopentatrione | | | | | | | | | |
| 5 | Saturated Ester | 12-Methyl-tridecanoic acid, methyl ester | | | | • | | | | | |
| 6 | | Nonanedioic acid, bis(1-methylpropyl) ester | | | | | | | | | |
| 7 | | 9-Octadecenoic acid, ethyl ester | | | • | • | • • • | • • • | • | • • | |
| 8 | Sulfide | Methyl 2-methyl-1-(methylthio)butyl disulfide | | | • | | | | | | |
| 9 | | Dimethyl trisulfide | | | | | | | | | |
| 10 | Dipeptide | Glycine, anhydride | | | | | | | | | |
| 11 | Alkene | C5 Substituted naphthalene [Octahydro-tetramethyl-1H-cyclopropan[A]naphthalene] | | | | | | • | | | |
| 12 | | Hexahydro-4,7-dimethyl-1-(1-methylethyl)-naphthalene... | | | | | | | | | |
| 13 | | 5-Ethylidene-1-methyl-cycloheptene | | • | • • | • • | • • | • | | • | |
| 14 | | C30 Unsat. hydrocarbon [Hexamethyl-tetracosahexaene] | | | | | | | | | |
| 15 | | Ylangene | | | | | | | | | |
| 16 | Unsaturated Aldehyde | 2-Butyl-2-octenal | | | | • | | | | | |
| 17 | | Unidentified C9.H8.O [Cyclooctatetraene-1-carboxaldehyde] | | | | | | | | | |
| 18 | Unsaturated Amine | N,N-Dimethyl-3-octen-2-amine | | | | | | | | | |
| 19 | Unsaturated Ketone | 6,10-Dimethyl-5,9-undecadien-2-one | | | | | | | | | |
| 20 | Arene | C4 Alkyl benzene [1-Ethyl-2,3-dimethyl benzene] | | | | | | • | | | |
| 21 | | 2-Ethyl-1,3-dimethyl-benzene | | • | | • | • • | • | | | |
| 22 | | C4 Alkyl benzene [4-Ethyl-1,2-dimethyl-benzene] | | | | | • | • | | | |
| 23 | | C4 Alkyl benzene [Diethyl benzene] | | | | • | • • | • | | | |
| 24 | | C4 Alkyl benzene [Methyl(1-methylethyl)-benzene] | | | • | • | • • | | | | |
| 25 | | Cyclohexyl-benzene | | | | | | | | | |
| 26 | | C3 Alkyl benzene [1,3,5-Trimethyl-benzene] | | | | • | | • | | | |
| 27 | | C4 Alkyl benzene [1-Ethyl-2,3-dimethyl benzene] | | | | | | • | | | |
| 28 | | C5 Alkyl benzene [1-Ethyl-4-(1-methylethyl)-benzene] | | | | | | | | | |
| 29 | | C3 Alkyl benzene [1-Ethyl-3-methyl-benzene] | | | • | • | • | • | | | |
| 30 | | C3 Alkyl benzene [1-Ethyl-2-methyl-benzene] | | | • | • • | | • | | | |
| 31 | | C3 Alkyl benzene [1,3,5-Trimethyl-benzene | | | | • | | • | | | |
| 32 | | C3 Alkyl benzene [1,3,5-Trimethyl-benzene | | • | | • | | | | | |
| 33 | | C4 Alkyl benzene [1-Ethyl-2,4-dimethyl-benzene] | | | | • | • | • | | • | |
| 34 | | 2-Methyl-naphthalene | | | • | | | | | | |
| 35 | | Unidentified C10.H12 [2,3-Dihydro-1-methyl-1H-Indene] | | | | | • | | | | |
| 36 | | Unidentified C15.H24 [Hexahydro-tetramethyl-1H-benzocycloheptene] | | | • | | | | | | |
| 37 | | Unsat. C4 alkyl benzene [4-Ethenyl-1,2-dimethyl-benzene] | | | | • | • | • | | | |
| 38 | | 2-Propenyl-benzene | | | | • | | • | | | |
| 39 | Aromatic Aldehyde | Benzaldehyde | • | | | • • | | | | | |
| 40 | | 4-Pentyl-benzaldehyde | | | | | | | | | |
| 41 | Aromatic Ketone | Unidentified C9.H8.O [2,3-Dihydro-1H-Inden-1-one] | | | | | | | | | |
| 42 | | 1-Phenyl-ethanone | | | | | | | | | |
| 43 | Phenol | 2,6-Bis(1,1-dimethylethyl)-4-methyl-phenol | | • | • | | • | | | • | |
| 44 | | [1,1'-Biphenyl]-2-ol | | | | | | | | | |
| 45 | | 2,2'-Methylenebis[6-(1,1-dimethylethyl)-4-methyl-phenol | | | | | | | | | |
| 46 | Aromatic Ester | Benzenepropanoic acid, ethyl ester | | | | | | • | | • | |
| 47 | Aromatic Ether | 1,1'-Oxybis-benzene | • | • | • • | • • | • • • | • | | • • | |
| 48 | | 1-Methoxy-4-(1-propenyl)-benzene | | | | | | | | | |
| 49 | Aromatic Amine | C2 Alkyl benzenamine [3,5-Dimethyl-benzenamine] | | | | | | | | | |
| 50 | Aromatic Oxime | 4-Methyl benzaldehyde, oxime | • | • | • | • • | • • | • | | • • | |
| 51 | Thiocyanic Ester | Thiocyanic acid, phenyl ester | | | | | | | | | |
| 52 | Heterocyclic Compound | 2,3,5-Trimethyl-1H-pyrrole | | | | • | | • | | | |
| 53 | | Unidentified C8.H7 N [1H-Indole] | | | • | | | • • | | | |
| 54 | | Unidentified C8.H7.N [Indolizine] | | | | | | | | | |
| 55 | | 2-(Methylthio)-benzothiazole | | | | | | | | | |
| 56 | | 5-(2-Propenyl)-1,3-Benzodioxole | | | | | | | | | |
| 57 | | 1,4-Dioxaspiro[4.6]undec-7-ene | | | | | | | | | |
| 58 | | 2,4-Dihydro-2,5-dimethyl-3H-pyrazol-3-one | | | | | | | | | |
| 59 | | 5,5-Diethyl-2,4-imidazolidinedione | | | | | | | | | |
| 60 | Steroid | (5.Alpha.)-cholest-3-ene | | | • | | • • | • • • | | | |
| 61 | | (3.Beta.)- Cholest-5-en-3-ol acetate | | • | | | | | | | |

## Table B-2 (concluded)

| | | | CENSUS REGION | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SOUTH | | | | | | | | |
| | | CENSUS DIVISION | EAST SOUTH CENTRAL | | | SOUTH ATLANTIC | | | WEST SOUTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound (a) | | | | | | | | | |
| 62 | | Cholest-5-en-3-ol- (3.beta.)-, propanoate | | | | | | | | | |
| 63 | | Cholest-5-en-3-one | | • | | | • | | | | |
| 64 | | Cholest-5-ene | • | • | | | • | | | • | |
| 65 | | (5.Alpha.)-cholest-7-en-3-one | | • | | | | | | | |
| 66 | | Cholesta-3,5-dien-7-one | | • | | | | | | | |
| 67 | | (3.Beta.)-cholesta-4,6-dien-3-ol benzoate | | • | | | • | | | | |
| 68 | | Cholesterol | | • | | | | | | | |
| 69 | | Isomer of cholestenol [5-cholesten-3-ol propionate] | • | • | • • | • • | • • • • | • • • | | • • | • |
| 70 | | Pregnane, (5.alpha.)- | | | | | | • | | | |
| 71 | | (3.Beta.)-26,27-dinorergost-5-en-3-ol benzoate | | • | | | | | | | |
| 72 | Chlorinated Hydrocarbon | 1,1-Dichloro-1-propene | | | | | | | | | |
| 73 | | (4-Chlorophenyl)phenyl-methanone | | | | | | | | | |
| 74 | | 2-Chloro-6-methyl-benzonitrile | | | | | | | | | |
| 75 | | Dichlorobenzene [1,3-dichloro-benzene] | • | | • | • | | • • | | | • |
| 76 | | Lindane | • | | | | | | | | |
| 77 | | DDD | • | • | • | • | • • | • | • | | |
| 78 | Organo-Silicon | Isomer of decamethyl-cyclopentasiloxane | • | • | • • | • | • | • • • • | | • | • |
| 79 | | Octamethyl-cyclotetrasiloxane | • | • | • | • • | • | • • | | | • |
| 80 | | Isomer of decamethyl-cyclopentasiloxane | | | | | | | | | |
| 81 | Phthalate | Diheptyl phthalate | | | | | | | | | |

(a) Tentative compound identification is based on search vs. the NBS mass spectral library. Confirmation has not been achieved by comparing retention with an authentic standard. In cases where more than one reference compound successfully matched the unknown spectrum, a general descriptive name is reported and the best ranked NBS name is provided in brackets.

Table B-3. Compounds Identified in the 6% Florisil Semivolatile Organic Analysis Data Set - North Central Census Region

| | | | CENSUS REGION | | | NORTH CENTRAL | | |
|---|---|---|---|---|---|---|---|---|
| | | | CENSUS DIVISION | EAST NORTH CENTRAL | | | WEST NORTH CENTRAL | |
| | | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound (a) | | | | | | | |
| LS. | Internal Standard | D10-Anthracene | | • • | • • • | • • • | • | • | • • |
| 1 | Alkane | 2,6,10,14-Tetramethyl-hexadecane | | • | • • • | • • • | • | | • |
| 2 | | 2,6,10,14-Tetramethyl-nonadecane | | | • | • | | | • |
| 3 | | Alkane ≥ C18 [2,6,10,14,19-Pentamethyl eicosane] | | | | • | | | |
| 4 | Saturated Ketone | 1,2,4-Cyclopentatrione | | | | | | | |
| 5 | Saturated Ester | 12-Methyl-tridecanoic acid, methyl ester | | | | • | | | |
| 6 | | Nonanedioic acid, bis(1-methylpropyl) ester | | | | | | | |
| 7 | | 9-Octadecenoic acid, ethyl ester | | • • | • • | • • • | • | • | • • |
| 8 | Sulfide | Methyl 2-methyl-1-(methylthio)butyl disulfide | | • | | • • | | | |
| 9 | | Dimethyl trisulfide | | | | | | | • |
| 10 | Dipeptide | Glycine, anhydride | | • | | | | | |
| 11 | Alkene | C5 Substituted naphthalene | | | | | | | • |
| | | [Octahydro-tetramethyl-1H-cyclopropan[A]naphthalene] | | | | | | | |
| 12 | | Hexahydro-4,7-dimethyl-1-(1-methylethyl)-naphthalene... | | | | | | | |
| 13 | | 5-Ethylidene-1-methyl-cycloheptene | | • | • | • • • | • | • | • • |
| 14 | | C30 Unsat. hydrocarbon [Hexamethyl-tetracosahexaene] | | | | | | • | |
| 15 | | Ylangene | | | | | | | |
| 16 | Unsaturated Aldehyde | 2-Butyl-2-octenal | | | | | | | |
| 17 | | Unidentified C9.H8.O [Cyclooctatetraene-1-carboxaldehyde] | | | | | | | |
| 18 | Unsaturated Amine | N,N-Dimethyl-3-octen-2-amine | | | | | | | |
| 19 | Unsaturated Ketone | 6,10-Dimethyl-5,9-undecadien-2-one | | | | | | | |
| 20 | Arene | C4 Alkyl benzene [1-Ethyl-2,3-dimethyl benzene] | | | | | | | |
| 21 | | 2-Ethyl-1,3-dimethyl-benzene | | • | | | | | • |
| 22 | | C4 Alkyl benzene [4-Ethyl-1,2-dimethyl-benzene] | | | | | | | • |
| 23 | | C4 Alkyl benzene [Diethyl benzene] | | | | | | | • |
| 24 | | C4 Alkyl benzene [Methyl(1-methylethyl)-benzene] | | | | | | | • |
| 25 | | Cyclohexyl-benzene | | | | | | | |
| 26 | | C3 Alkyl benzene [1,3,5-Trimethyl-benzene] | | | | | | | |
| 27 | | C4 Alkyl benzene [1-Ethyl-2,3-dimethyl benzene] | | | | | | | |
| 28 | | C5 Alkyl benzene [1-Ethyl-4-(1-methylethyl)-benzene] | | | | | | | |
| 29 | | C3 Alkyl benzene [1-Ethyl-3-methyl-benzene] | | | | | | | • |
| 30 | | C3 Alkyl benzene [1-Ethyl-2-methyl-benzene] | | | | • | | | • |
| 31 | | C3 Alkyl benzene [1,3,5-Trimethyl-benzene | | | | | | | • |
| 32 | | C3 Alkyl benzene [1,3,5-Trimethyl-benzene | | | | | | | |
| 33 | | C4 Alkyl benzene [1-Ethyl-2,4-dimethyl-benzene] | | | | • | | | • |
| 34 | | 2-Methyl-naphthalene | | | | | | | |
| 35 | | Unidentified C10.H12 [2,3-Dihydro-1-methyl-1H-Indene] | | | | | | | |
| 36 | | Unidentified C15.H24 [Hexahydro-tetramethyl-1H-benzocycloheptene] | | | | | | | |
| 37 | | Unsat. C4 alkyl benzene [4-Ethenyl-1,2-dimethyl-benzene] | | | | | | | |
| 38 | | 2-Propenyl-benzene | | | | | | | |
| 39 | Aromatic Aldehyde | Benzaldehyde | | • | | | • | | |
| 40 | | 4-Pentyl-benzaldehyde | | | | | | | |
| 41 | Aromatic Ketone | Unidentified C9.H8.O [2,3-Dihydro-1H-Inden-1-one] | | | • | | | | |
| 42 | | 1-Phenyl-ethanone | | | | | | | |
| 43 | Phenol | 2,6-Bis(1,1-dimethylethyl)-4-methyl-phenol | | | | • | | | |
| 44 | | [1,1'-Biphenyl]-2-ol | | | | | | | |
| 45 | | 2,2'-Methylenebis[6-(1,1-dimethylethyl)-4-methyl-phenol | | | | | | | |
| 46 | Aromatic Ester | Benzenepropanoic acid, ethyl ester | | | • | | | | |
| 47 | Aromatic Ether | 1,1'-Oxybis-benzene | | | • • | • • • | | • | • • |
| 48 | | 1-Methoxy-4-(1-propenyl)-benzene | | | | | • | | |
| 49 | Aromatic Amine | C2 Alkyl benzenamine [3,5-Dimethyl-benzenamine] | | | | • • • | | | • |
| 50 | Aromatic Oxime | 4-Methyl benzaldehyde, oxime | | • • | • • • | • • • | • | • | • • |
| 51 | Thiocyanic Ester | Thiocyanic acid, phenyl ester | | | • | | | | |
| 52 | Heterocyclic Compound | 2,3,5-Trimethyl-1H-pyrrole | | • | | • | | | |
| 53 | | Unidentified C8.H7.N [1H-Indole] | | | | | | | |
| 54 | | Unidentified C8.H7.N [Indolizine] | | | | | | | |
| 55 | | 2-(Methylthio)-benzothiazole | | | | | | | |
| 56 | | 5-(2-Propenyl)-1,3-Benzodioxole | | | | | | | |
| 57 | | 1,4-Dioxaspiro[4.5]undec-7-ene | | | | | | | |
| 58 | | 2,4-Dihydro-2,5-dimethyl-3H-pyrazol-3-one | | • | | | | | |
| 59 | | 5,5-Diethyl-2,4-imidazolidinedione | | | | | | | |
| 60 | Steroid | (5.Alpha.)-cholest-3-ene | | | | • • | | | |
| 61 | | (3.Beta.)- Cholest-5-en-3-ol acetate | | | | | | | |
| 62 | | Cholest-5-en-3-ol- (3.beta.)-, propanoate | | | | | | | |

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## Table B-3 (concluded)

| | | CENSUS REGION | NORTH CENTRAL | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST NORTH CENTRAL | | | WEST NORTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound (a) | | | | | | |
| 63 | | Cholest-5-en-3-one | | | | | | |
| 64 | | Cholest-5-ene | • | • | • | | | • |
| 65 | | (5.Alpha.)-cholest-7-en-3-one | | | | | | |
| 66 | | Cholesta-3,5-dien-7-one | | | | | | |
| 67 | | (3.Beta.)-cholesta-4,6-dien-3-ol benzoate | | | | | | |
| 68 | | Cholesterol | | | | | | |
| 69 | | Isomer of cholestenol [5-cholesten-3-ol propionate] | • • | • • • | • • • | • | • | • • |
| 70 | | Pregnane, (5.alpha.)- | | | | | | |
| 71 | | (3.Beta.)-26,27-dinorergost-5-en-3-ol benzoate | | | | | | |
| 72 | Chlorinated Hydrocarbon | 1,1-Dichloro-1-propene | | • | | | | |
| 73 | | (4-Chlorophenyl)phenyl-methanone | | | | | | |
| 74 | | 2-Chloro-6-methyl-benzonitrile | • | | | | | |
| 75 | | Dichlorobenzene [1,3-dichloro-benzene] | • | • | • • | | | • |
| 76 | | Lindane | | | • | | | • |
| 77 | | DDD | • | | • | | | • |
| 78 | Organo-Silicon | Isomer of decamethyl-cyclopentasiloxane | | • • | • • • | | | • • |
| 79 | | Octamethyl-cyclotetrasiloxane | | • | • | | | • |
| 80 | | Isomer of decamethyl-cyclopentasiloxane | | | | | | |
| 81 | Phthalate | Diheptyl phthalate | | | | | | |

(a) Tentative compound identification is based on search vs. the NBS mass spectral library. Confirmation has not been achieved by comparing retention with an authentic standard. In cases where more than one reference compound successfully matched the unknown spectrum, a general descriptive name is reported and the best ranked NBS name is provided in brackets.

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Table B-4. Compounds Identified in the 6% Florisil Semivolatile Organic Analysis Data Set - Northeast Census Region

| | | CENSUS REGION | NORTHEAST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MIDDLE ATLANTIC | | | NEW ENGLAND | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound (a) | | | | | | |
| I.S. | Internal Standard | D10-Anthracene | • • | • • | • • | • | • | • |
| 1 | Alkane | 2,6,10,14-Tetramethyl-hexadecane | | | • | | | |
| 2 | | 2,6,10,14-Tetramethyl-nonadecane | | • | • | | | |
| 3 | | Alkane ≥ C18 [2,6,10,14,19-Pentamethyl eicosane] | | | | | | • |
| 4 | Saturated Ketone | 1,2,4-Cyclopentatrione | | | | | | |
| 5 | Saturated Ester | 12-Methyl-tridecanoic acid, methyl ester | | | | • | | |
| 6 | | Nonanedioic acid, bis(1-methylpropyl) ester | | | | | | |
| 7 | | 9-Octadecenoic acid, ethyl ester | • • | | | • | | |
| 8 | Sulfide | Methyl 2-methyl-1-(methylthio)butyl disulfide | | | • | | | |
| 9 | | Dimethyl trisulfide | | | | | | |
| 10 | Dipeptide | Glycine, anhydride | | | | | | |
| 11 | Alkene | C5 Substituted naphthalene [Octahydro-tetramethyl-1H-cyclopropan[A]naphthalene] | | | • | | | |
| 12 | | Hexahydro-4,7-dimethyl-1-(1-methylethyl)-naphthalene... | | | | | | |
| 13 | | 5-Ethylidene-1-methyl-cycloheptene | • | • • | • • • | | • | • |
| 14 | | C30 Unsat. hydrocarbon [Hexamethyl-tetracosahexaene] | | | | | | |
| 15 | | Ylangene | | | | | | • |
| 16 | Unsaturated Aldehyde | 2-Butyl-2-octenal | | | • | • | | • |
| 17 | | Unidentified C9.H8.O | | | • | | | |
| | Unsaturated Amine | | | | | | | |
| 19 | Unsaturated Ketone | | | | | | | |
| | | [illegible] | | | | | | |
| 21 | | 2-Ethyl-1,3-dimethyl-benzene | | | | | | |
| 22 | | C4 Alkyl benzene [4-Ethyl-1,2-dimethyl-benzene] | | | | | | |
| 23 | | C4 Alkyl benzene [Diethyl benzene] | | | | | | |
| 24 | | C4 Alkyl benzene [Methyl(1-methylethyl)-benzene] | | | | | | |
| 25 | | Cyclohexyl-benzene | | | | | | |
| 26 | | C3 Alkyl benzene [1,3,5-Trimethyl-benzene] | | | | | | |
| 27 | | C4 Alkyl benzene [1-Ethyl-2,3-dimethyl benzene] | | | | | | |
| 28 | | C5 Alkyl benzene [1-Ethyl-4-(1-methylethyl)-benzene] | | | | | | |
| 29 | | C3 Alkyl benzene [1-Ethyl-3-methyl-benzene] | | | | | | |
| 30 | | C3 Alkyl benzene [1-Ethyl-2-methyl-benzene] | | | • | | | |
| 31 | | C3 Alkyl benzene [1,3,5-Trimethyl-benzene | | | | | | |
| 32 | | C3 Alkyl benzene [1,3,5-Trimethyl-benzene | | | | | | |
| 33 | | C4 Alkyl benzene [1-Ethyl-2,4-dimethyl-benzene] | | | | | | |
| 34 | | 2-Methyl-naphthalene | | | | | | |
| 35 | | Unidentified C10.H12 [2,3-Dihydro-1-methyl-1H-Indene] | | | | | | |
| 36 | | Unidentified C15.H24 [Hexahydro-tetramethyl-1H-benzocycloheptene] | | | | | | |
| 37 | | Unsat. C4 alkyl benzene [4-Ethenyl-1,2-dimethyl-benzene] | | | | | | |
| 38 | | 2-Propenyl-benzene | | | | | | |
| 39 | Aromatic Aldehyde | Benzaldehyde | • • | | | • | | |
| 40 | | 4-Pentyl-benzaldehyde | | | | | | |
| 41 | Aromatic Ketone | Unidentified C9.H8.O [2,3-Dihydro-1H-Inden-1-one] | | • | | | | |
| 42 | | 1-Phenyl-ethanone | | | | | | • |
| 43 | Phenol | 2,6-Bis(1,1-dimethylethyl)-4-methyl-phenol | | | • | | | |
| 44 | | [1,1'-Biphenyl]-2-ol | | | | | | |
| 45 | | 2,2'-Methylenebis[6-(1,1-dimethylethyl)-4-methyl-phenol | | | | | | |
| 46 | Aromatic Ester | Benzenepropanoic acid, ethyl ester | | | | | | |
| 47 | Aromatic Ether | 1,1'-Oxybis-benzene | • | • • | • • | | | • |
| 48 | | 1-Methoxy-4-(1-propenyl)-benzene | | | | | | |
| 49 | Aromatic Amine | C2 Alkyl benzenamine [3,5-Dimethyl-benzenamine] | | | | | | |
| 50 | Aromatic Oxime | 4-Methyl benzaldehyde, oxime | • | • | • • | • | • | • |
| 51 | Thiocyanic Ester | Thiocyanic acid, phenyl ester | | | | | | • |
| 52 | Heterocyclic Compound | 2,3,5-Trimethyl-1H-pyrrole | • • | | | • | | |
| 53 | | Unidentified C8 H7.N [1H-Indole] | | | | | | |
| 54 | | Unidentified C8.H7.N [Indolizine] | | | | | | |
| 55 | | 2-(Methylthio)-benzothiazole | | | | | | |
| 56 | | 5-(2-Propenyl)-1,3-Benzodioxole | | | • | | | |
| 57 | | 1,4-Dioxaspiro[4.6]undec-7-ene | | | • | | | |
| 58 | | 2,4-Dihydro-2,5-dimethyl-3H-pyrazol-3-one | | | | | | |
| 59 | | 5,5-Diethyl-2,4-imidazolidinedione | | | | | | • |
| 60 | Steroid | (5.Alpha.)-cholest-3-ene | | | • | | | |
| 61 | | (3.Beta.)- Cholest-5-en-3-ol acetate | | | | | | |
| 62 | | Cholest-5-en-3-ol- (3.beta.)-, propanoate | | | | • | | |

Table B-4 (concluded)

| | | CENSUS REGION | NORTHEAST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MIDDLE ATLANTIC | | | NEW ENGLAND | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound (a) | | | | | | |
| 63 | | Cholest-5-en-3-one | | | | | | |
| 64 | | Cholest-5-ene | | | | | | • |
| 65 | | (5.Alpha.)-cholest-7-en-3-one | | | | | | |
| 66 | | Cholesta-3,5-dien-7-one | | | | | | |
| 67 | | (3.Beta.)-cholesta-4,6-dien-3-ol benzoate | | | | | | |
| 68 | | Cholesterol | | | | | | • |
| 69 | | Isomer of cholestenol [5-cholesten-3-ol propionate] | • • | • • | • • | • | • | • |
| 70 | | Pregnane, (5.alpha.)- | • | | | | | • |
| 71 | | (3.Beta.)-26,27-dinorergost-5-en-3-ol benzoate | | | | | | |
| 72 | Chlorinated Hydrocarbon | 1,1-Dichloro-1-propene | | | | | | |
| 73 | | (4-Chlorophenyl)phenyl-methanone | | | | | | |
| 74 | | 2-Chloro-6-methyl-benzonitrile | | | | | | |
| 75 | | Dichlorobenzene [1,3-dichloro-benzene] | | | • | | | • |
| 76 | | Lindane | • | | • • | | | |
| 77 | | DDD | | | • | | | |
| 78 | Organo-Silicon | Isomer of decamethyl-cyclopentasiloxane | • | • | • • | | | • |
| 79 | | Octamethyl-cyclotetrasiloxane | • • | | • • | | | • |
| 80 | | Isomer of decamethyl-cyclopentasiloxane | | | | | | |
| 81 | Phthalate | Diheptyl phthalate | | | | | | |

(a) Tentative compound identification is based on search vs. the NBS mass spectral library. Confirmation has not been achieved by comparing retention with an authentic standard. In cases where more than one reference compound successfully matched the unknown spectrum, a general descriptive name is reported and the best ranked NBS name is provided in brackets.

APPENDIX C

DOT MATRIX TABLE FOR COMPOUNDS IDENTIFIED IN THE 15/50% FLORISIL SEMIVOLATILE ORGANIC ANALYSIS DATA SET; SEMIVOLATILE ORGANIC COMPOUNDS VS. CENSUS REGION, CENSUS DIVISION, AND AGE GROUP

Table C-1. Compounds Identified in the 15/50% Florisil Semivolatile Organic Analysis Data Set - West Census Region

| | | | CENSUS REGION | | | WEST | | |
|---|---|---|---|---|---|---|---|---|
| | | | CENSUS DIVISION | MOUNTAIN | | | PACIFIC | |
| | | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound (a) | | | | | | | |
| I.S. | Internal Standard | D10-Anthracene - Internal Standard | • | • | • | • | • | • |
| 1 | Alkane | Unidentified C10.H20 [Diethyl cyclohexane] | | | | | | |
| 2 | Saturated Ester | 1,7,7-Trimethyl-bicyclo[2.2.1]heptan-2-ol, exo propanoate- | | | | | | |
| 3 | | Dodecanoic acid, ethyl ester | | | | | | |
| 4 | | Hexanedioic acid,mono(2-ethylhexyl) ester | | | | | | |
| 5 | | Alkyl ester [15-Methyl-heptadecanoate] | | | | | | |
| 6 | Saturated Polyfunctional | Ethylhydrazone propionaldehyde | | | | | | |
| 7 | | 9-Oxo-nonanoic acid, ethyl ester | | | | | | |
| 8 | Alkene | 1-Methyl-3-(1-methylethenyl)-cyclohexene | | | | | | |
| 9 | Unsaturated Aldehyde | Trimethyl-3-cyclohexene-1-carboxaldehyde | | | | | | |
| 10 | | 2-Butyl-2-octenal | • | | • | | | |
| 11 | Unsaturated Ketone | 3-Methyl-3-Buten-2-one, dimer | | | | | | |
| 12 | | 2,4,6-Cycloheptatriene-1-one | | | | | | |
| 13 | | 5-Undecen-4-one | | | | | | |
| 14 | | 5-Ethyl-2-methyl-4-heptene-3-one | | | | | | |
| 15 | Unsaturated Polyfuntional | Substituted cyclopentenone [Butyl-methoxy-cyclopenten-1-one] | | | | | | |
| 16 | | Substituted cyclopentenone [Butyl-methoxy-cyclopenten-1-one] | | | | | | |
| 17 | | Substituted cyclopentenone [Butyl-methoxy-cyclopenten-1-one] | • | | • | • | • | • |
| 18 | | 2-Methoxy-2-octen-4-one | | | | | | |
| 19 | Alkyne | 5,5-Dimethyl-3-heptyne | | | | | | |
| 20 | Arene | C3-Alkyl benzene [1,3,5-trimethyl-benzene] | • | • | • | | | |
| 21 | | C3 Alkyl benzene [1,2,4-Trimethyl-benzene] | | | | | | |
| 22 | | C3-Alkyl benzene [1,2,4-trimethyl-benzene] | | | | | | |
| 23 | | C3 Alkyl benzene [1-Ethyl-3-methyl-benzene] | | | | | | |
| 24 | | Unidentified C11.H10 [1-Ethylidene-indene] | | | | | | |
| 25 | Aromatic Aldehyde | Benzaldehyde | | | | • | • | |
| 26 | | Unidentified C10.H10.O [.Alpha.-ethylidene-benzeneacetaldehyde] | • | | | | | |
| 27 | | Unidentified C10.H10.O [.Alpha.-ethylidene-benzeneacetaldehyde] | | • | | | | |
| 28 | Aromatic Ketone | 1-Phenyl-ethanone | | | | | | |
| 29 | Aromatic Amide | N-Methyl-1-naphthalenecarboxamide | | | | | | |
| 30 | Aromatic Carboxylate Derivative | Benzenepropanoic acid, .beta.,.beta.-dimethyl- | | | | | | |
| 31 | | 2-(acetylamino)-benzoic adid,methyl ester | | | | | | |
| 32 | | Benzenepropanoic acid, ethyl ester | | | | | • | |
| 33 | | Benzenepropanoic acid | | | | | | |
| 34 | Phthalic Acid Derivative | Butyl decyl phthalate | | | | | | |
| 35 | | Isomer of diheptyl phthalate | | | | | | |
| 36 | | Isomer of diheptyl phthalate | | | | | | |
| 37 | | Butyl phthalate, ester with butyl glycolate | | | | | | |
| 38 | | Unidentified phthalate | | | • | | | |
| 39 | Phenol | Methyl phenol [2-Methyl-phenol] | | | | | | • |
| 40 | | [1,1'-Biphenyl]-2-ol | | • | • | | | |
| 41 | | 2-Naphthalenol | | | | | | |
| 42 | Aromatic Polyfunctional | 1,3-Dimethoxy-benzene | | | | | | |
| 43 | | 1-Phenyl-1,2-butanediol | | | | | | |
| 44 | | 2-Ethoxy-benzaldehyde | | • | | | | |
| 45 | | Unidentified C7.H5.O.N.S [Thiocyanic acid, 4-hydroxyphenyl ester] | | | | • | | |
| 46 | Drug | Methaqualone | | | | | | |
| 47 | | Unidentified barbiturate [5-Ethyl-1,3-dimethyl pyrimidinetrione] | | | | | | |
| 48 | | Alkyl substituted pyrimidinetrione [Mephobarbital] | | | | | | |
| 49 | | Alkyl substituted pyrimidinetrione [Pentobarbital] | | • | | | | |
| 50 | | Alkyl substituted pyrimidinetrione [Phenobarbital] | | | | | | |
| 51 | | Alkyl substituted pyrimidinetrione [Metharbital] | | | | | | |
| 52 | | Alkyl substituted pyrimidinetrione [Metharbital] | | | | | | |
| 53 | Heterocyclic Compound | 1,7-Naphthyridine | | | | | | |
| 54 | | Isomer of dimethyl-piperidine [1,4-Dimethyl-piperidine] | • | | | • | • | |
| 55 | | 3-Pyridinecarboxaldehyde, oxime | | • | | • | | |
| 56 | | 4-Pyridinecarboxaldehyde | | | | | | |
| 57 | | Unidentified C8.H7.N [Indolizine] | | | | | | |
| 58 | | C2 Alkyl pyrazine [2,6-Dimethyl pyrizine] | | | | | | |
| 59 | | 2-Methoxy-3-methyl-pyrazine | | | | | | |

## Table C-1 (concluded)

| | | CENSUS REGION | WEST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MOUNTAIN | | | PACIFIC | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound (a) | | | | | | |
| 60 | | 1,2-Benzisothiazole | | | | | | |
| 61 | | Unidentified C7.H11.N.S [2-Methyl-4-propyl-thiazole] | | | | | | • |
| 62 | | Alkyl thazole [4-Ethyl-5-methyl-thiazole] | • | | | | | |
| 63 | | 4-Propyl-thiazole | | | | | | |
| 64 | | 1,3-Benzodioxole | | | | | | |
| 65 | | 4,7-Dimethyl-3(2H)-benzofuranone | | | | | | |
| 66 | | Unidentified C11.H16.O2 [Tetrahydro-trimethyl-2(4H)-benzofuranone] | | • | | | | |
| 67 | | 5-(Butylimino)-2(5H)-furanone | | | | | | |
| 68 | | 2H-1-Benzopyran-2-one | | | | | | |
| 69 | | 1,3,5-Trimethyl-1H-pyrazole | | | | | | |
| 70 | | Isomer of thienyl-ethanone [1-(3-Thienyl)-ethanone] | • | | | | | |
| 71 | | 1-(4-Hydroxy-3-thienyl)-ethanone | • | | | | • | |
| 72 | | 2,3,4-trimethyl thiophene | | | | | | |
| 73 | | 2-Methyl-5-propyl-thiophene | | | | | | |
| 74 | | 2-t-Butoxy-thiophene | • | | | | | |
| 75 | Steroid | Isomer of cholest-en-ol [Cholest-5-en-3-ol,acetate] | • | • | • | • | • | |
| 76 | | Isomer of cholest-en-ol [Cholest-5-en-3-ol,acetate] | | | • | | | |
| 77 | | Cholest-5-en-3-ol (3.beta.)-, propanoate | • | • | • | • | • | |
| 78 | | Cholest-5-en-3-one | • | • | • | • | • | |
| 79 | | Cholest-5-ene | | • | • | | | |
| 80 | | Isomer of cholest-en-ol [4-Methyl-cholest-8(14)-en-3-ol] | | | | | | |
| 81 | | Cholesta-3,5-dien-7-one | • | • | | | | |
| 82 | | Cholesta-4,6-dien-3-ol (3.Beta.), Benzoate | • | • | • | • | • | |
| 83 | | Cholesta-5,7-dien-3-ol, (3.beta.) | | | | | | |
| 84 | | Isomer of cholestanol [Cholestanol] | | | | | | |
| 85 | | Methyl-cholestan-3-ol, (3.beta.,5.alpha.,6.beta.)- | | | • | | | |
| 86 | | 3-(Acetoxy)-cholestan-6-one, (3.beta,5.alpha.)- | • | • | | | | |
| 87 | | Cholestane-3,5-diol, (3.beta.,5.alpha.)- | | | | | | |
| 88 | | Cholestanol | | | • | | | |
| 89 | | Cholesterol | • | • | • | • | • | |
| 90 | Halogenated Hydrocarbon | 1-Chloro-4-(Methylsulfonyl)-benzene | | | | | | |
| 91 | | Isomer of fluoro-methyl-benzene [1-Fluoro-2-methyl-benzene] | | | • | | | |
| 92 | | Carbonochloridothioic acid, S-methyl ester | • | | | • | • | |
| 93 | | 1,1-Dichloro-ethene | • | | | | | |
| 94 | | 4-Chloro-2-(phenylmethyl)-phenol | | | | | | |
| 95 | Organo-Silicon | 1-Butynyl-trimethyl silane | | • | | | | |
| 96 | | Trimethyl[(1-methyl-2-propynyl)oxy]-silane | | | | | | |

(a) Tentative compound identification is based on search vs. the NBS mass spectral library. Confirmation has not been achieved by comparing retention with an authentic standard. In cases where more than one reference compound successfully matched the unknown spectrum, a general descriptive name is reported and the best ranked NBS name is provided in brackets.

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Table C-2. Compounds Identified in the 15/50% Florisil Semivolatile Organic Analysis Data Set - South Census Region

| | | CENSUS REGION | SOUTH | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST SOUTH CENTRAL | | | SOUTH ATLANTIC | | | WEST SOUTH CENTRA | | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 4 | |
| Index | Compound Class | Compound Name (a) | | | | | | | | | | |
| [redacted] | [redacted] | D10-Anthracene - Internal S[redacted] | • | • • | • • | • • | • • • | • • • | | • • | | |
| 1 | [redacted] | [redacted] | | | | | | | | | | |
| 2 | Saturated Ester | 1,7,7-Trimethyl-bicyclo[2.2.1]heptan-2-ol, exo propanoate | | | | | | | | | | |
| 3 | | Dodecanoic acid, ethyl ester | | | | | | | | | | |
| 4 | | Hexanedioic acid,mono(2-ethylhexyl) ester | | | • | | | | | | | |
| 5 | | Alkyl ester [15-Methyl-heptadecanoate] | | | | | • • • | • • • | | • | | |
| 6 | Saturated Polyfunctional | Ethylhydrazone propionaldehyde | | | | | | | | | | |
| 7 | | 9-Oxo-nonanoic acid, ethyl ester | | | | | | | | | | |
| 8 | Alkene | 1-Methyl-3-(1-methylethenyl)-cyclohexene | | | | • | • | | | | | |
| 9 | Unsaturated Aldehyde | Trimethyl-3-cyclohexene-1-carboxaldehyde | | | | | • | | | | | |
| 10 | | 2-Butyl-2-octenal | • | | • | • • | • • • | • • | | • | | |
| 11 | Unsaturated Ketone | 3-Methyl-3-Buten-2-one, dimer | | | | • | | | | | | |
| 12 | | 2,4,6-Cycloheptatrene-1-one | | | | | | | | | | |
| 13 | | 5-Undecen-4-one | | | | | | | | | | |
| 14 | | 5-Ethyl-2-methyl-4-heptene-3-one | | | | | | | | | | |
| 15 | Unsaturated Polyfuntional | Substituted cyclopentenone [Butyl-methoxy-cyclopenten-1-one] | | | | | | | | | | |
| 16 | | Substituted cyclopentenone [Butyl-methoxy-cyclopenten-1-one] | | | | | | | | | | |
| 17 | | Substituted cyclopentenone [Butyl-methoxy-cyclopenten-1-one] | | • | • | • | | • • | | | | |
| 18 | | 2-Methoxy-2-octen-4-one | | | | • | | | | | | |
| 19 | Alkyne | 5,5-Dimethyl-3-heptyne | | | | • | | | | | | |
| 20 | Arene | C3-Alkyl benzene [1,3,5-trimethyl-benzene] | • | | | | | | | | | |
| 21 | | C3 Alkyl benzene [1,2,4-Trimethyl-benzene] | | | | • | | | | | | |
| 22 | | C3-Alkyl benzene [1,2,4-trimethyl-benzene] | | | | | | | | | | |
| 23 | | C3 Alkyl benzene [1-Ethyl-3-methyl-benzene] | | | • | | | | | | | |
| 24 | | Unidentified C11.H10 [1-Ethylidene-indene] | | | | | | | | | | |
| 25 | Aromatic Aldehyde | Benzaldehyde | | | | • • | | | | | | |
| 26 | | Unidentified C10.H10.O [.Alpha.-ethylidene-benzeneacetaldehyde] | | | | • | | | | | | |
| 27 | | Unidentified C10.H10.O [.Alpha.-ethylidene-benzeneacetaldehyde] | | | • | | • | • • • | | • | | |
| 28 | Aromatic Ketone | 1-Phenyl-ethanone | | | | | | | | • | | |
| 29 | Aromatic Amide | N-Methyl-1-naphthalenecarboxamide | | | | | | | | | | |
| 30 | Aromatic Carboxylate Derivative | Benzenepropanoic acid, .beta.,.beta.-dimethyl- | | | | | • | | | | | |
| 31 | | 2-(acetylamino)-benzoic adid,methyl ester | | | | | | | | | | |
| 32 | | Benzenepropanoic acid, ethyl ester | | | | | | | | • • | | |
| 33 | | Benzenepropanoic acid | | | | | | | | | | |
| 34 | Phthalic Acid Derivative | Butyl decyl phthalate | | | • | • | • | | | | | |
| 35 | | Isomer of diheptyl phthalate | | | | • | • | | | | | |
| 36 | | Isomer of diheptyl phthalate | | | | • | • • | | | | | |
| 37 | | Butyl phthalate, ester with butyl glycolate | | | | | • | | | | | |
| 38 | | Unidentified phthalate | | • | | | | | | | | |
| 39 | Phenol | Methyl phenol [2-Methyl-phenol] | | | • | | | | | | | |
| 40 | | [1,1'-Biphenyl]-2-ol | | | | | • | • • | | • • | | |
| 41 | | 2-Naphthalenol | | | | | | | | | | |
| 42 | Aromatic Polyfunctional | 1,3-Dimethoxy-benzene | | | | • | | | | | | |
| 43 | | 1-Phenyl-1,2-butanediol | | | | | | | | | | |
| 44 | | 2-Ethoxy-benzaldehyde | | | | • | | | | | | |
| 45 | | Unidentified C7.H5.O.N.S [Thiocyanic acid, 4-hydroxyphenyl ester] | | | | | | | | | | |
| 46 | Drug | Methaqualone | | | | | • • • | | | • | | |
| 47 | | Unidentified barbiturate [5-Ethyl-1,3-dimethyl pyrimidinetrione] | | | | | | | | | | |
| 48 | | Alkyl substituted pyrimidinetrione [Mephobarbital] | | | | | • | | | | | |
| 49 | | Alkyl substituted pyrimidinetrione [Pentobarbital] | | | | | • | | | • • | | |
| 50 | | Alkyl substituted pyrimidinetrione [Phenobarbital] | • | | | | • | | | | | |
| 51 | | Alkyl substituted pyrimidinetrione [Metharbital] | | | | | | | | | | |
| 52 | | Alkyl substituted pyrimidinetrione [Metharbital] | | | | | | | | | | |
| 53 | Heterocyclic Compound | 1,7-Naphthyridine | | | | | | | | • | | |
| 54 | | Isomer of dimethyl-piperidine [1,4-Dimethyl-piperidine] | | • | | • • | | | | | | |
| 55 | | 3-Pyridinecarboxaldehyde, oxime | | | | | | | | • | | |
| 56 | | 4-Pyridinecarboxaldehyde | | | | | | | | | | |
| 57 | | Unidentified C8.H7.N [Indolizine] | | | | | | | | | | |
| 58 | | C2 Alkyl pyrazine [2,6-Dimethyl pyrizine] | | | | | | | | | | |
| 59 | | 2-Methoxy-3-methyl-pyrazine | | | | | | • • | | | | |
| 60 | | 1,2-Benzisothiazole | | | | | | | | | | |
| 61 | | Unidentified C7.H11.N.S [ 2-Methyl-4-propyl-thiazole] | | | | | | • • | | | | |
| 62 | | Alkyl thazole [4-Ethyl-5-methyl-thiazole] | | | | | | | | | | |

## Table C-2 (concluded)

| | | CENSUS REGION | SOUTH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST SOUTH CENTRAL | | | SOUTH ATLANTIC | | | WEST SOUTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound Name (a) | | | | | | | | | |
| 63 | | 4-Propyl-thiazole | | | | • | | | | | |
| 64 | | 1,3-Benzodioxole | | | | | | | | | |
| 65 | | 4,7-Dimethyl-3(2H)-benzofuranone | | | | | | • • | | | |
| 66 | | Unidentified C11.H16.O2 [Tetrahydro-trimethyl-2(4H)-benzofuranone] | | | | | | • • | | | |
| 67 | | 5-(Butylimino)-2(5H)-furanone | | | | | | | | | |
| 68 | | 2H-1-Benzopyran-2-one | | | | | | | | | |
| 69 | | 1,3,5-Trimethyl-1H-pyrazole | | | | | | | | | • |
| 70 | | Isomer of thienyl-ethanone [1-(3-Thienyl)-ethanone] | | | | • | | • | | | |
| 71 | | 1-(4-Hydroxy-3-thienyl)-ethanone | | | | | | | • | | |
| 72 | | 2,3,4-trimethyl thiophene | | | | | | | | • | |
| 73 | | 2-Methyl-5-propyl-thiophene | | | | • | • | | • | | |
| 74 | | 2-I-Butoxy-thiophene | | | | • | | • | | | |
| 75 | Steroid | Isomer of cholest-en-ol [Cholest-5-en-3-ol,acetate] | • | • • | • | • • | • • | • • | • | • • | • |
| 76 | | Isomer of cholest-en-ol [Cholest-5-en-3-ol,acetate] | • | • | • | • | • | • • | | • | • |
| 77 | | Cholest-5-en-3-ol (3.beta.)-, propanoate | • | • • | • • | • • | • • • • | • • • • | • | • • | • |
| 78 | | Cholest-5-en-3-one | • | • • | • • | • • | • • • • | • • • • | • | • • | • |
| 79 | | Cholest-5-ene | • | • | • • | • | • • • | • • • | | • • | • |
| 80 | | Isomer of cholest-en-ol [4-Methyl-cholest-8(14)-en-3-ol] | | | | | • | | | | |
| 81 | | Cholesta-3,5-dien-7-one | • | • | | • • | • | • • | • | • • | • |
| 82 | | Cholesta-4,6-dien-3-ol (3.Beta.), Benzoate | • | • • | • • | • • | • • • • | • • • • | • | • • | • |
| 83 | | Cholesta-5,7-dien-3-ol, (3.beta.) | | | | | | | | | |
| 84 | | Isomer of cholestanol [Cholestanol] | • | • | • | • | • • | • • | | • • | • |
| 85 | | Methyl-cholestan-3-ol, (3.beta.,5.alpha.,6.beta.)- | | | • | • | • | • • | | • | |
| 86 | | 3-(Acetoxy)-cholestan-6-one, (3.beta,5.alpha.)- | | | | | • | | | | |
| 87 | | Cholestane-3,5-diol, (3.beta.,5.alpha.)- | | | | | | • | | | |
| 88 | | Cholestanol | | | • | | | • | | | |
| 89 | | Cholesterol | • | • • | • • | • • | • • • • | • • • • | • | • • | • |
| 90 | Halogenated Hydrocarbon | 1-Chloro-4-(Methylsulfonyl)-benzene | | | | | | | | | |
| 91 | | Isomer of fluoro-methyl-benzene [1-Fluoro-2-methyl-benzene] | • | • | • | | | | | | |
| 92 | | Carbonochloridothioic acid, S-methyl ester | | | | | | | | | |
| 93 | | 1,1-Dichloro-ethene | | | | | | | | | |
| 94 | | 4-Chloro-2-(phenylmethyl)-phenol | | | | | | • | | | |
| 95 | Organo-Silicon | 1-Butynyl-trimethyl silane | | | | • • | | | • | | |
| 96 | | Trimethyl[(1-methyl-2-propynyl)oxy]-silane | | | | • | | • • | | | |

(a) Tentative compound identification is based on search vs. the NBS mass spectral library. Confirmation has not been achieved by comparing retention with an authentic standard. In cases where more than one reference compound successfully matched the unknown spectrum, a general descriptive name is reported and the best ranked NBS name is provided in brackets.

Table C-3. Compounds Identified in the 15/50% Florisil Semivolatile Organic Analysis Data Set - North Central Census Region

| | | | CENSUS REGION | NORTH CENTRAL | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | CENSUS DIVISION | EAST NORTH CENTRAL | | | WEST NORTH CENTRAL | | |
| | | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound Name (a) | | | | | | | |
| I.S. | Internal Standard | D10-Anthracene - Internal Standard | | • | • | • | • | • | • |
| 1 | Alkane | Unidentified C10.H20 [Diethyl cyclohexane] | | | | | | | • |
| 2 | Saturated Ester | 1,7,7-Trimethyl-bicyclo[2.2.1]heptan-2-ol, exo propanoate- | | | | | | | |
| 3 | | Dodecanoic acid, ethyl ester | | | | • | | | • |
| 4 | | Hexanedioic acid,mono(2-ethylhexyl) ester | | | | | | | |
| 5 | | Alkyl ester [15-Methyl-heptadecanoate] | | | | • | • | | • |
| 6 | Saturated Polyfunctional | Ethylhydrazone propionaldehyde | | | | | | | |
| 7 | | 9-Oxo-nonanoic acid, ethyl ester | | | | | | | • |
| 8 | Alkene | 1-Methyl-3-(1-methylethenyl)-cyclohexene | | | | | | | |
| 9 | Unsaturated Aldehyde | Trimethyl-3-cyclohexene-1-carboxaldehyde | | | • | | | | |
| 10 | | 2-Butyl-2-octenal | | • | • | • | • | | |
| 11 | Unsaturated Ketone | 3-Methyl-3-Buten-2-one, dimer | | • | | | | | |
| 12 | | 2,4,6-Cycloheptatriene-1-one | | | | | | | |
| 13 | | 5-Undecen-4-one | | | | | | | |
| 14 | | 5-Ethyl-2-methyl-4-heptene-3-one | | | | | | | |
| 15 | Unsaturated Polyfuntional | Substituted cyclopentenone [Butyl-methoxy-cyclopenten-1-one] | | | | | • | | • |
| 16 | | Substituted cyclopentenone [Butyl-methoxy-cyclopenten-1-one] | | | | | • | | • |
| 17 | | Substituted cyclopentenone [Butyl-methoxy-cyclopenten-1-one] | | • | • | • | • | | • |
| 18 | | 2-Methoxy-2-octen-4-one | | • | | | | | |
| 19 | Alkyne | 5,5-Dimethyl-3-heptyne | | | | | | | |
| 20 | Arene | C3-Alkyl benzene [1,3,5-trimethyl-benzene] | | | | | • | | • |
| 21 | | C3 Alkyl benzene [1,2,4-Trimethyl-benzene] | | • | | • | | | |
| 22 | | C3-Alkyl benzene [1,2,4-trimethyl-benzene] | | | | | | | |
| 23 | | C3 Alkyl benzene [1-Ethyl-3-methyl-benzene] | | | | | | | |
| 24 | | Unidentified C11.H10 [1-Ethylidene-indene] | | | | | | | • |
| 25 | Aromatic Aldehyde | Benzaldehyde | | • | | • | | | |
| 26 | | Unidentified C10.H10.O [.Alpha.-ethylidene-benzeneacetaldehyde] | | | • | | | | |
| 27 | | Unidentified C10.H10.O [.Alpha.-ethylidene-benzeneacetaldehyde] | | • | • | • | • | | • |
| 28 | Aromatic Ketone | 1-Phenyl-ethanone | | | | | | | |
| 29 | Aromatic Amide | N-Methyl-1-naphthalenecarboxamide | | | | | | | |
| 30 | Aromatic Carboxylate Derivative | Benzenepropanoic acid, .beta., .beta.-dimethyl- | | | | | | | |
| 31 | | 2-(acetylamino)-benzoic acid,methyl ester | | | | | • | | |
| 32 | | Benzenepropanoic acid, ethyl ester | | • | • | | | | |
| 33 | | Benzenepropanoic acid | | | | | | | |
| 34 | Phthalic Acid Derivative | Butyl decyl phthalate | | | • | • | | | |
| 35 | | Isomer of diheptyl phthalate | | | | | | | • |
| 36 | | Isomer of diheptyl phthalate | | | | | | | |
| 37 | | Butyl phthalate, ester with butyl glycolate | | | | • | • | | |
| 38 | | Unidentified phthalate | | | | | | | • |
| 39 | Phenol | Methyl phenol [2-Methyl-phenol] | | | | • | | | |
| 40 | | [1,1'-Biphenyl]-2-ol | | • | | • | | | • |
| 41 | | 2-Naphthalenol | | | | | | | • |
| 42 | Aromatic Polyfunctional | 1,3-Dimethoxy-benzene | | | | | | | |
| 43 | | 1-Phenyl-1,2-butanediol | | | | | | | |
| 44 | | 2-Ethoxy-benzaldehyde | | | | | | | |
| 45 | | Unidentified C7.H5.O.N.S [Thiocyanic acid, 4-hydroxyphenyl ester] | | | | | | | |
| 46 | Drug | Methaqualone | | | | | | | |
| 47 | | Unidentified barbiturate [5-Ethyl-1,3-dimethyl pyrimidinetrione] | | | | | | | |
| 48 | | Alkyl substituted pyrimidinetrione [Mephobarbital] | | | | | | | |
| 49 | | Alkyl substituted pyrimidinetrione [Pentobarbital] | | • | • | • | • | | • |
| 50 | | Alkyl substituted pyrimidinetrione [Phenobarbital] | | | | | | | |
| 51 | | Alkyl substituted pyrimidinetrione [Metharbital] | | | | | | | |
| 52 | | Alkyl substituted pyrimidinetrione [Metharbital] | | | | | | | |
| 53 | Heterocyclic Compound | 1,7-Naphthyridine | | | | | | | |
| 54 | | Isomer of dimethyl-piperidine [1,4-Dimethyl-piperidine] | | • | | | • | • | • |
| 55 | | 3-Pyridinecarboxaldehyde, oxime | | • | • | | • | | |
| 56 | | 4-Pyridinecarboxaldehyde | | • | | | | | |
| 57 | | Unidentified C8.H7.N [Indolizine] | | | | | | | |
| 58 | | C2 Alkyl pyrazine [2,6-Dimethyl pyrizine] | | • | | | | | |
| 59 | | 2-Methoxy-3-methyl-pyrazine | | • | • | | | | |

## Table C-3 (concluded)

| | | CENSUS REGION | NORTH CENTRAL | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST NORTH CENTRAL | | | WEST NORTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound Name (a) | | | | | | |
| 60 | | 1,2-Benzisothiazole | | | • | | | |
| 61 | | Unidentified C7.H11.N.S [ 2-Methyl-4-propyl-thiazole] | | | • • | | | • |
| 62 | | Alkyl thazole [4-Ethyl-5-methyl-thiazole] | • | | | | | |
| 63 | | 4-Propyl-thiazole | • | | | | | |
| 64 | | 1,3-Benzodioxole | | | | | | • |
| 65 | | 4,7-Dimethyl-3(2H)-benzofuranone | | | • | • | | |
| 66 | | Unidentified C11.H16.O2 [Tetrahydro-trimethyl-2(4H)-benzofuranone] | | • | • | | | • |
| 67 | | 5-(Butylimino)-2(5H)-furanone | | | | | | |
| 68 | | 2H-1-Benzopyran-2-one | | | | | | |
| 69 | | 1,3,5-Trimethyl-1H-pyrazole | | | | | | |
| 70 | | Isomer of thienyl-ethanone [1-(3-Thienyl)-ethanone] | • • | | | | | |
| 71 | | 1-(4-Hydroxy-3-thienyl)-ethanone | | | | | | |
| 72 | | 2,3,4-trimethyl thiophene | | | • • | | • | • |
| 73 | | 2-Methyl-5-propyl-thiophene | | • | | | | |
| 74 | | 2-t-Butoxy-thiophene | • | | | | | |
| 75 | Steroid | Isomer of cholest-en-ol [Cholest-5-en-3-ol,acetate] | • • | • • | • | • | • | • • |
| 76 | | Isomer of cholest-en-ol [Cholest-5-en-3-ol,acetate] | • | • • | • • | | | • • |
| 77 | | Cholest-5-en-3-ol (3.beta.)-, propanoate | • • | • • • | • • • | • | • | • • |
| 78 | | Cholest-5-en-3-one | • • | • • • | • • • | • | • | • • |
| 79 | | Cholest-5-ene | • | • • | • • • | • | • | • • |
| 80 | | Isomer of cholest-en-ol [4-Methyl-cholest-8(14)-en-3-ol] | | • • | • | | | |
| 81 | | Cholesta-3,5-dien-7-one | | | • | • | • | • • |
| 82 | | Cholesta-4,6-dien-3-ol (3.Beta.), Benzoate | • • | • • • | • • • | • | • | • • |
| 83 | | Cholesta-5,7-dien-3-ol, (3.beta.) | | | | | | • • |
| 84 | | Isomer of cholestanol [Cholestanol] | • | • • • | • • | • | • | • |
| 85 | | Methyl-cholestan-3-ol, (3.beta.,5.alpha.,6.beta.)- | • | • | • • | | | • |
| 86 | | 3-(Acetoxy)-cholestan-6-one, (3.beta,5.alpha.)- | | | | | | |
| 87 | | Cholestane-3,5-diol, (3.beta.,5.alpha.)- | | | | • | | |
| 88 | | Cholestanol | | | | | | • |
| 89 | | Cholesterol | • • | • • • | • • | • | • | • • |
| 90 | Halogenated Hydrocarbon | 1-Chloro-4-(Methylsulfonyl)-benzene | | | • | | | |
| 91 | | Isomer of fluoro-methyl-benzene [1-Fluoro-2-methyl-benzene] | | | | | • | • • |
| 92 | | Carbonochloridothioic acid, S-methyl ester | • | | | | | |
| 93 | | 1,1-Dichloro-ethene | | | | | | |
| 94 | | 4-Chloro-2-(phenylmethyl)-phenol | | | | | | |
| 95 | Organo-Silicon | 1-Butynyl-trimethyl silane | • | • | | | | |
| 96 | | Trimethyl[(1-methyl-2-propynyl)oxy]-silane | • | • | | | | |

(a) Tentative compound identification is based on search vs. the NBS mass spectral library. Confirmation has not been achieved by comparing retention with an authentic standard. In cases where more than one reference compound successfully matched the unknown spectrum, a general descriptive name is reported and the best ranked NBS name is provided in brackets.

Table C-4. Compounds Identified in the 15/50% Florisil Semivolatile Organic Analysis Data Set - Northeast Census Region

| | | CENSUS REGION | NORTHEAST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MIDDLE ATLANTIC | | | NEW ENGLAND | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound Name (a) | | | | | | |
| I.S. | Internal Standard | D10-Anthracene - Internal Standard | • • | • • | • • | • | • | • |
| 1 | Alkane | Unidentified C10.H20 [Diethyl cyclohexane] | | | | | | |
| 2 | Saturated Ester | 1,7,7-Trimethyl-bicyclo[2.2.1]heptan-2-ol, exo propanoate- | | | • | | | |
| 3 | | Dodecanoic acid, ethyl ester | | | • | | | |
| 4 | | Hexanedioic acid,mono(2-ethylhexyl) ester | | | | | | |
| 5 | | Alkyl ester [15-Methyl-heptadecanoate] | | | | | | |
| 6 | Saturated Polyfunctional | Ethylhydrazone propionaldehyde | | | | | | |
| 7 | | 9-Oxo-nonanoic acid, ethyl ester | | | | | | |
| 8 | Alkene | 1-Methyl-3-(1-methylethenyl)-cyclohexene | | | | | | |
| 9 | Unsaturated Aldehyde | Trimethyl-3-cyclohexene-1-carboxaldehyde | | | | | | |
| 10 | | 2-Butyl-2-octenal | • | • | • | • | • | • |
| 11 | Unsaturated Ketone | 3-Methyl-3-Buten-2-one, dimer | | | | | | |
| 12 | | 2,4,6-Cycloheptatriene-1-one | • | | | • | | |
| 13 | | 5-Undecen-4-one | | | • | • | | • |
| 14 | | 5-Ethyl-2-methyl-4-heptene-3-one | • | | | | | • |
| 15 | Unsaturated Polyfuntional | Substituted cyclopentenone [Butyl-methoxy-cyclopenten-1-one] | | | | | | |
| 16 | | Substituted cyclopentenone [Butyl-methoxy-cyclopenten-1-one] | | | • | | | |
| 17 | | Substituted cyclopentenone [Butyl-methoxy-cyclopenten-1-one] | | | • • | • | | • |
| 18 | | 2-Methoxy-2-octen-4-one | | | | | | |
| 19 | Alkyne | 5,5-Dimethyl-3-heptyne | | | | | | |
| 20 | Arene | C3-Alkyl benzene [1,3,5-trimethyl-benzene] | | | | | | • |
| 21 | | C3 Alkyl benzene [1,2,4-Trimethyl-benzene] | • | • | | | | |
| 22 | | C3-Alkyl benzene [1,2,4-trimethyl-benzene] | | | | | | |
| 23 | | C3 Alkyl benzene [1-Ethyl-3-methyl-benzene] | | | | | | |
| 24 | | Unidentified C11.H10 [1-Ethylidene-indene] | | • | | | | |
| 25 | Aromatic Aldehyde | Benzaldehyde | | | | | | |
| 26 | | Unidentified C10.H10.O [.Alpha.-ethylidene-benzeneacetaldehyde] | | | • | | | |
| 27 | | Unidentified C10.H10.O [.Alpha.-ethylidene-benzeneacetaldehyde] | • • | • | • | • | • | • |
| 28 | Aromatic Ketone | 1-Phenyl-ethanone | | • | • | | | |
| 29 | Aromatic Amide | N-Methyl-1-naphthalenecarboxamide | | | | | | |
| 30 | Aromatic Carboxylate Derivative | Benzenepropanoic acid, .beta.,.beta.-dimethyl- | | | | | | |
| 31 | | 2-(acetylamino)-benzoic adid,methyl ester | | | | | | |
| 32 | | Benzenepropanoic acid, ethyl ester | | | | | | |
| 33 | | Benzenepropanoic acid | | | | | | |
| 34 | Phthalic Acid Derivative | Butyl decyl phthalate | • | • | • | | | |
| 35 | | Isomer of diheptyl phthalate | | | | | | |
| 36 | | Isomer of diheptyl phthalate | | | | | | |
| 37 | | Butyl phthalate, ester with butyl glycolate | | | | | | |
| 38 | | Unidentified phthalate | | | • | | | |
| 39 | Phenol | Methyl phenol [2-Methyl-phenol] | | | • | | | |
| 40 | | [1,1'-Biphenyl]-2-ol | • | • | • | • | • | • |
| 41 | | 2-Naphthalenol | | | | | | |
| 42 | Aromatic Polyfunctional | 1,3-Dimethoxy-benzene | | | | | | • |
| 43 | | 1-Phenyl-1,2-butanediol | • | | • | | | |
| 44 | | 2-Ethoxy-benzaldehyde | • | | | | | • |
| 45 | | Unidentified C7.H5.O.N.S [Thiocyanic acid, 4-hydroxyphenyl ester] | | | | | | |
| 46 | Drug | Methaqualone | | | | | | |
| 47 | | Unidentified barbiturate [5-Ethyl-1,3-dimethyl pyrimidinetrione] | | | • | | | |
| 48 | | Alkyl substituted pyrimidinetrione [Mephobarbital] | • | | | | | |
| 49 | | Alkyl substituted pyrimidinetrione [Pentobarbital] | • • | • • | • • | | | |
| 50 | | Alkyl substituted pyrimidinetrione [Phenobarbital] | • | | • | | | |
| 51 | | Alkyl substituted pyrimidinetrione [Metharbital] | | | • | | | |
| 52 | | Alkyl substituted pyrimidinetrione [Metharbital] | • | • | • | | | |
| 53 | Heterocyclic Compound | 1,7-Naphthyridine | | | | | | |
| 54 | | Isomer of dimethyl-piperidine [1,4-Dimethyl-piperidine] | • | | | • | | |
| 55 | | 3-Pyridinecarboxaldehyde, oxime | | | | | | |
| 56 | | 4-Pyridinecarboxaldehyde | | | | | | |
| 57 | | Unidentified C8.H7.N [Indolizine] | | | • | | | |
| 58 | | C2 Alkyl pyrazine [2,6-Dimethyl pyrizine] | • | | | • | | |
| 59 | | 2-Methoxy-3-methyl-pyrazine | • | | | | | • |

## Table C-4 (concluded)

| | | CENSUS REGION | NORTHEAST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MIDDLE ATLANTIC | | | NEW ENGLAND | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Compound Class | Compound Name (a) | | | | | | |
| 60 | | 1,2-Benzisothiazole | | | | | | • |
| 61 | | Unidentified C7.H11.N.S [ 2-Methyl-4-propyl-thiazole] | | | • • | | | |
| 62 | | Alkyl thazole [4-Ethyl-5-methyl-thiazole] | | | | | | |
| 63 | | 4-Propyl-thiazole | | | • | | | |
| 64 | | 1,3-Benzodioxole | | | • | | | |
| 65 | | 4,7-Dimethyl-3(2H)-benzofuranone | | | | | | |
| 66 | | Unidentified C11.H16.O2 [Tetrahydro-trimethyl-2(4H)-benzofuranone] | | | | | | |
| 67 | | 5-(Butylimino)-2(5H)-furanone | | • | • | | • | |
| 68 | | 2H-1-Benzopyran-2-one | | | • | | | |
| 69 | | 1,3,5-Trimethyl-1H-pyrazole | | | | | | |
| 70 | | Isomer of thienyl-ethanone [1-(3-Thienyl)-ethanone] | | | • | | | • |
| 71 | | 1-(4-Hydroxy-3-thienyl)-ethanone | | | | | | |
| 72 | | 2,3,4-trimethyl thiophene | | | | | | |
| 73 | | 2-Methyl-5-propyl-thiophene | | | | | | |
| 74 | | 2-t-Butoxy-thiophene | | | | | • | |
| 75 | Steroid | Isomer of cholest-en-ol [Cholest-5-en-3-ol,acetate] | • • | • | • | • | • | • |
| 76 | | Isomer of cholest-en-ol [Cholest-5-en-3-ol,acetate] | • • | • | • • | • | • | • |
| 77 | | Cholest-5-en-3-ol (3.beta.)-, propanoate | • • | • • | • • | • | • | • |
| 78 | | Cholest-5-en-3-one | • • | • • | • • | | • | • |
| 79 | | Cholest-5-ene | • | • | • | | | • |
| 80 | | Isomer of cholest-en-ol [4-Methyl-cholest-8(14)-en-3-ol] | | • | | | | |
| 81 | | Cholesta-3,5-dien-7-one | • • | | • | | | • |
| 82 | | Cholesta-4,6-dien-3-ol (3.Beta.), Benzoate | • • | • • | • • | • | • | • |
| 83 | | Cholesta-5,7-dien-3-ol, (3.beta.) | | | • | | | |
| 84 | | Isomer of cholestanol [Cholestanol] | • | • | • | | | |
| 85 | | Methyl-cholestan-3-ol, (3.beta.,5.alpha.,6.beta.)- | • | • | • | | | |
| 86 | | 3-(Acetoxy)-cholestan-6-one, (3.beta,5.alpha.)- | | | | | | |
| 87 | | Cholestane-3,5-diol, (3.beta.,5.alpha.)- | | | | | | |
| 88 | | Cholestanol | | | | | | |
| 89 | | Cholesterol | • • | • • | • • | • | • | • |
| 90 | Halogenated Hydrocarbon | 1-Chloro-4-(Methylsulfonyl)-benzene | | | | | | |
| 91 | | Isomer of fluoro-methyl-benzene [1-Fluoro-2-methyl-benzene] | • | • | • | | | |
| 92 | | Carbonochloridothioic acid, S-methyl ester | • | | | | | |
| 93 | | 1,1-Dichloro-ethene | | | | | | |
| 94 | | 4-Chloro-2-(phenylmethyl)-phenol | | | • | • | | • |
| 95 | Organo-Silicon | 1-Butynyl-trimethyl silane | | | | | | • |
| 96 | | Trimethyl[(1-methyl-2-propynyl)oxy]-silane | | | | | | |

(a) Tentative compound identification is based on search vs. the NBS mass spectral library. Confirmation has not been achieved by comparing retention with an authentic standard. In cases where more than one reference compound successfully matched the unknown spectrum, a general descriptive name is reported and the best ranked NBS name is provided in brackets.

APPENDIX D

DOT MATRIX TABLE FOR UNIDENTIFIED HRGC/MS PEAKS IN THE VOLATILE ORGANIC ANALYSIS DATA SET; UNIDENTIFIED VOLATILE ORGANIC COMPOUND RESPONSES VS. CENSUS REGION, CENSUS DIVISION, AND AGE GROUP

Table D-1. Unidentified Peaks in the Volatile Organic Analysis Data Set - West Census Region

| | | CENSUS REGION | WEST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MOUNTAIN | | | PACIFIC | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index Number | Average RRT | Total Number of Occurrences[a] | | | | | | |
| I.S. | 1.000 | 46 | • | • | • | • | • | • |
| 1 | 0.481 | 46 | • | • | • | • | • | • |
| 2 | 3.216 | 46 | • | • | • | • | • | • |
| 3 | 3.114 | 45 | • | • | • | • | • | • |
| 4 | 2.659 | 44 | | • | • | • | • | • |
| 5 | 4.213 | 43 | • | • | • | • | • | • |
| 6 | 0.370 | 41 | • | • | • | | • | • |
| 7 | 2.398 | 41 | | | • | • | • | • |
| 8 | 0.405 | 34 | | • | | | • | • |
| 9 | 2.890 | 30 | | • | • | • | • | • |
| 10 | 4.353 | 28 | • | • | | • | • | • |
| 11 | 3.862 | 24 | | | | | | |
| 12 | 0.286 | 23 | • | • | • | | | |
| 13 | 3.322 | 21 | • | | | | | • |
| 14 | 3.314 | 18 | | | | | | • |
| 15 | 2.771 | 14 | • | | | | | |
| 16 | 2.689 | 13 | | | | | • | • |
| 17 | 1.997 | 12 | | | • | | | |
| 18 | 3.384 | 12 | | | | | | |
| 19 | 3.873 | 12 | • | • | | | | |
| 20 | 2.666 | 11 | | | | • | | |
| 21 | 4.390 | 11 | • | • | • | | | |
| 22 | 2.570 | 10 | | | • | | • | |
| 23 | 3.962 | 9 | • | | | | | |
| 24 | 4.142 | 9 | | | | | | |
| 25 | 0.335 | 8 | | | | | | |
| 26 | 2.369 | 8 | | | | | • | |
| 27 | 2.619 | 8 | | | | | | • |
| 28 | 3.364 | 8 | | | | | | |
| 29 | 3.812 | 8 | | | | • | | |
| 30 | 1.488 | 7 | | | | | | |
| 31 | 2.572 | 7 | | | | | | • |
| 32 | 3.177 | 7 | | | | | | |
| 33 | 4.159 | 7 | • | | • | | | |
| 34 | 2.053 | 6 | | | | | | |
| 35 | 4.388 | 6 | | | | | | |
| 36 | 4.573 | 6 | | | | | | |
| 37 | 0.802 | 5 | | | | | | |
| 38 | 1.744 | 5 | | • | | • | | |
| 39 | 2.495 | 5 | | | | | | |
| 40 | 2.867 | 5 | | • | | | | |
| 41 | 2.906 | 5 | • | | | | | |
| 42 | 3.308 | 5 | | | | | • | |
| 43 | 3.501 | 5 | | | | | | |
| 44 | 4.319 | 5 | | | | | | |
| 45 | 0.277 | 4 | | | | | | |
| 46 | 0.408 | 4 | | | • | • | | |
| 47 | 1.719 | 4 | | | • | | | |
| 48 | 3.064 | 4 | | • | • | | | |
| 49 | 3.159 | 4 | | | | | | |
| 50 | 3.513 | 4 | | | | | | |
| 51 | 3.881 | 4 | | | • | | | |
| 52 | 3.908 | 4 | | | | | | |
| 53 | 4.317 | 4 | • | | | | | |
| 54 | 0.381 | 3 | | | | | | |
| 55 | 1.141 | 3 | | | | | | • |
| 56 | 2.721 | 3 | • | | | | | |
| 57 | 3.482 | 3 | | | | | | • |
| 58 | 4.146 | 3 | | | | | | |

Table D-1 (concluded)

| | | CENSUS REGION | WEST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MOUNTAIN | | | PACIFIC | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index Number | Average RRT | Total Number of Occurrences [a] | | | | | | |
| 59 | 0.285 | 2 | | | | | | |
| 60 | 0.573 | 2 | | | | | | |
| 61 | 2.141 | 2 | | | | | | |
| 62 | 2.892 | 2 | | | | | | |
| 63 | 3.012 | 2 | | | | | | |
| 64 | 3.551 | 2 | | | | | | |
| 65 | 3.564 | 2 | | | | | | |
| 66 | 3.700 | 2 | | | | | | |
| 67 | 3.963 | 2 | | | | | | |
| 68 | 4.113 | 2 | | | | | | |
| 69 | 0.313 | 1 | | | | | | |
| 70 | 1.036 | 1 | | | | | | |
| 71 | 1.511 | 1 | | | | | | |
| 72 | 1.672 | 1 | | | | | | |
| 73 | 2.028 | 1 | | | | | | |
| 74 | 2.239 | 1 | | | | | | |
| 75 | 2.262 | 1 | | | | | | |
| 76 | 2.271 | 1 | | | | | | |
| 77 | 2.301 | 1 | | | | | | |
| 78 | 2.407 | 1 | | | | | | |
| 79 | 2.671 | 1 | | | | | | |
| 80 | 2.891 | 1 | | | | | | |
| 81 | 2.907 | 1 | | | | | | |
| 82 | 2.988 | 1 | | | | | | |
| 83 | 3.073 | 1 | | | | | | |
| 84 | 3.100 | 1 | | | | | | |
| 85 | 3.175 | 1 | | | | | | |
| 86 | 3.314 | 1 | | | | | | |
| 87 | 3.371 | 1 | | | | | | |
| 88 | 3.453 | 1 | | | | | | |
| 89 | 3.461 | 1 | | | | | | |
| 90 | 3.494 | 1 | | | | | | |
| 91 | 3.650 | 1 | | | | | | |
| 92 | 3.782 | 1 | | | | | | |
| 93 | 3.829 | 1 | | | | | | |
| 94 | 3.975 | 1 | | | | | | |
| 95 | 3.993 | 1 | | | | | | |
| 96 | 4.192 | 1 | | | | | | |
| 97 | 4.635 | 1 | | | | | | |
| 98 | 4.812 | 1 | | | | | | |
| 99 | 5.004 | 1 | | | | | | |

[a]Total number of occurrences from all sample analyses (four census regions and nine census divisions).

Table D-2. Unidentified Peaks in the Volatile Organic Analysis Data Set - South Census Region

| CENSUS REGION | | | SOUTH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CENSUS DIVISION | | | EAST SOUTH CENTRAL | | | SOUTH ATLANTIC | | | WEST SOUTH CENTRAL | | |
| AGE GROUP | | | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index Number | Average RRT | Total Number of Occurrences [a] | | | | | | | | | |
| I.S. | 1.000 | 46 | • | • • | • • | • • | • • • • | • • • • | • | • • | • |
| 1 | 0.481 | 46 | • | • • | • • | • • | • • • • | • • • • | • | • • | • |
| 2 | 3.216 | 46 | • | • • | • • | • • | • • • • | • • • • | • | • • | • |
| 3 | 3.114 | 45 | • | • • | • • | • • | • • • • | • • • • | • | • • | • |
| 4 | 2.659 | 44 | • | • • | • • | • • | • • • • | • • • • | • | • • | • |
| 5 | 4.213 | 43 | • | • • | • • | • • | • • • • | • • | • | • • | • |
| 6 | 0.370 | 41 | • | • • | • • | • • | • • • • | • • • | • | • • | • |
| 7 | 2.398 | 41 | • | • • | • • | • • | • • • • | • • • | • | • • | • |
| 8 | 0.405 | 34 | | • | • | | • • • | • • • • | | • • | • |
| 9 | 2.890 | 30 | • | • • | • | • | • | • | • | • • | • |
| 10 | 4.353 | 28 | • | • | • • | • | • | • | • | • | • |
| 11 | 3.862 | 24 | • | • | | • • | • • • | • • | • | • | • |
| 12 | 0.286 | 23 | • | | • | • | • • • | • • • | • | • • | • |
| 13 | 3.322 | 21 | | • | • | | • | • • | | | |
| 14 | 3.314 | 18 | • | | • • | | | • • | | • | |
| 15 | 2.771 | 14 | | | • | • | • • • | • • | | | |
| 16 | 2.689 | 13 | | • • | | | • | • | | • | |
| 17 | 1.997 | 12 | | | | • • | | | | | |
| 18 | 3.384 | 12 | | | • • | | • • | • • • • | | • | |
| 19 | 3.873 | 12 | • | • | • | | • | | • | • | • |
| 20 | 2.666 | 11 | | | • | | • • • | • • | | | |
| 21 | 4.390 | 11 | | | | • | • • | | • | | |
| 22 | 2.570 | 10 | | • | | | • | • • | | • | |
| 23 | 3.962 | 9 | • | • | • • | | • • | • | | | |
| 24 | 4.142 | 9 | | • | | | • • • | | | • | |
| 25 | 0.335 | 8 | | | | | • | • • | • | • | |
| 26 | 2.369 | 8 | • | • | | | | • | | | • |
| 27 | 2.619 | 8 | | • | | | | • | | • | |
| 28 | 3.364 | 8 | | | | • • | • | | | | |
| 29 | 3.812 | 8 | | | | | • | | | | |
| 30 | 1.488 | 7 | • | • | • | • | | • | | • | |
| 31 | 2.572 | 7 | | | | | • • | | | | |
| 32 | 3.177 | 7 | | • | | | | | | | • |
| 33 | 4.159 | 7 | | • | | | | | • | • | • |
| 34 | 2.053 | 6 | | | | | • | | | | |
| 35 | 4.388 | 6 | | | | • | • | | | | • |
| 36 | 4.573 | 6 | | | | | | | | | |
| 37 | 0.802 | 5 | | | | | | | | | |
| 38 | 1.744 | 5 | | | | • | | | | | |
| 39 | 2.495 | 5 | | | | | | • | • | | |
| 40 | 2.867 | 5 | | | | | | | | | |
| 41 | 2.906 | 5 | | | | | • | • | | | |
| 42 | 3.308 | 5 | | | | | | | | | |
| 43 | 3.501 | 5 | | • | • | | | • • | | | • |
| 44 | 4.319 | 5 | | | | • | | • | | | |
| 45 | 0.277 | 4 | | • | | | | | | | |
| 46 | 0.408 | 4 | | | | • | • | | | | |
| 47 | 1.719 | 4 | | | | | | • | | • | |
| 48 | 3.064 | 4 | | | | | • | • | | | |
| 49 | 3.159 | 4 | | • | | | | | | • | |
| 50 | 3.513 | 4 | | | | | | | | | |
| 51 | 3.881 | 4 | | | | | | • | | | |
| 52 | 3.908 | 4 | | | | • | | | | | |
| 53 | 4.317 | 4 | | • | | | | | • | • | |
| 54 | 0.381 | 3 | | | | | | • | | | |
| 55 | 1.141 | 3 | | | | | | | | | |
| 56 | 2.721 | 3 | | | | | | | | | |
| 57 | 3.482 | 3 | | | | | | • | | | |
| 58 | 4.146 | 3 | | | | | | • | | | |

Table D-2 (concluded)

| CENSUS REGION | | | SOUTH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CENSUS DIVISION | | | EAST SOUTH CENTRAL | | | SOUTH ATLANTIC | | | WEST SOUTH CENTRAL | | |
| AGE GROUP | | | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index Number | Average RRT | Total Number of Occurrences[a] | | | | | | | | | |
| 59 | 0.285 | 2 | | | | | | | | | |
| 60 | 0.573 | 2 | | | | | | | | | |
| 61 | 2.141 | 2 | | | | | | | | | |
| 62 | 2.892 | 2 | | | | | | | | | |
| 63 | 3.012 | 2 | | | | | | | | | |
| 64 | 3.551 | 2 | | | | | | | | | |
| 65 | 3.564 | 2 | | | | | | | | | |
| 66 | 3.700 | 2 | | | | | | | | | |
| 67 | 3.963 | 2 | | | | | | | | | |
| 68 | 4.113 | 2 | | | | | | | | | |
| 69 | 0.313 | 1 | | | | | | | | | |
| 70 | 1.036 | 1 | | | | | | | | | |
| 71 | 1.511 | 1 | | | | | | | | | |
| 72 | 1.672 | 1 | | | | | | | | | |
| 73 | 2.028 | 1 | | | | | | | | | |
| 74 | 2.239 | 1 | | | | | | | | | |
| 75 | 2.262 | 1 | | | | | | | | | |
| 76 | 2.271 | 1 | | | | | | | | | |
| 77 | 2.301 | 1 | | | | | | | | | |
| 78 | 2.407 | 1 | | | | | | | | | |
| 79 | 2.671 | 1 | | | | | | | | | |
| 80 | 2.891 | 1 | | | | | | | | | |
| 81 | 2.907 | 1 | | | | | | | | | |
| 82 | 2.988 | 1 | | | | | | | | | |
| 83 | 3.073 | 1 | | | | | | | | | |
| 84 | 3.100 | 1 | | | | | | | | | |
| 85 | 3.175 | 1 | | | | | | | | | |
| 86 | 3.314 | 1 | | | | | | | | | |
| 87 | 3.371 | 1 | | | | | | | | | |
| 88 | 3.453 | 1 | | | | | | | | | |
| 89 | 3.461 | 1 | | | | | | | | | |
| 90 | 3.494 | 1 | | | | | | | | | |
| 91 | 3.650 | 1 | | | | | | | | | |
| 92 | 3.782 | 1 | | | | | | | | | |
| 93 | 3.829 | 1 | | | | | | | | | |
| 94 | 3.975 | 1 | | | | | | | | | |
| 95 | 3.993 | 1 | | | | | | | | | |
| 96 | 4.192 | 1 | | | | | | | | | |
| 97 | 4.635 | 1 | | | | | | | | | |
| 98 | 4.812 | 1 | | | | | | | | | |
| 99 | 5.004 | 1 | | | | | | | | | |

[a]Total number of occurrences from all sample analyses (four census regions and nine census divisions).

Table D-3. Unidentified Peaks in the Volatile Organic Analysis Data Set - North Central Census Region

| | | CENSUS REGION | NORTH CENTRAL | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST NORTH CENTRAL | | | WEST NORTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index Number | Average RRT | Total Number of Occurrences [a] | | | | | | |
| I.S. | 1.000 | 46 | • • | • • • | • • • | • | • | • • |
| 1 | 0.481 | 46 | • • | • • • | • • • | • | • | • • |
| 2 | 3.216 | 46 | • • | • • • | • • • | • | • | • • |
| 3 | 3.114 | 45 | • • | • • • | • • | • | • | • • |
| 4 | 2.659 | 44 | • • | • • • | • • • | • | • | • • |
| 5 | 4.213 | 43 | • • | • • • | • • • | • | • | • |
| 6 | 0.370 | 41 | • • | • • • | • • • | | | • |
| 7 | 2.398 | 41 | • • | • • • | • • • | • | • | • |
| 8 | 0.405 | 34 | • • | • • • | • • • | | • | • • |
| 9 | 2.890 | 30 | • • | • • | • | • | • | • |
| 10 | 4.353 | 28 | • | • | | • | • | |
| 11 | 3.862 | 24 | • • | • • | • • | | | |
| 12 | 0.286 | 23 | • | • | • • | | | • |
| 13 | 3.322 | 21 | • | • • | • • • | • | • | • • |
| 14 | 3.314 | 18 | | • • | • • | | • | • • |
| 15 | 2.771 | 14 | | • | • • | | | • |
| 16 | 2.689 | 13 | • | • • | • | | | • |
| 17 | 1.997 | 12 | | • • | | • | | |
| 18 | 3.384 | 12 | | | • • | | | • |
| 19 | 3.873 | 12 | • | | | | | |
| 20 | 2.666 | 11 | | • | • • | | | |
| 21 | 4.390 | 11 | | | • | • | | |
| 22 | 2.570 | 10 | | • | | | | • |
| 23 | 3.962 | 9 | | | | | | |
| 24 | 4.142 | 9 | | • | • • • | | | |
| 25 | 0.335 | 8 | | • | | | | |
| 26 | 2.369 | 8 | | | • | | | |
| 27 | 2.619 | 8 | • | | • | | | |
| 28 | 3.364 | 8 | | | | • | | |
| 29 | 3.812 | 8 | | | • | | | • |
| 30 | 1.488 | 7 | | • | | | | |
| 31 | 2.572 | 7 | | | • • | • | | • |
| 32 | 3.177 | 7 | • | • | | | | |
| 33 | 4.159 | 7 | • | | | | | |
| 34 | 2.053 | 6 | | | | • | • | • |
| 35 | 4.388 | 6 | | | • | | | |
| 36 | 4.573 | 6 | • | • | | • | | |
| 37 | 0.802 | 5 | | | | • | | |
| 38 | 1.744 | 5 | | | | | | |
| 39 | 2.495 | 5 | | • • | | | | |
| 40 | 2.867 | 5 | • | • | | | | |
| 41 | 2.906 | 5 | | • | | | | |
| 42 | 3.308 | 5 | • | • • | | | | • |
| 43 | 3.501 | 5 | | | | | | |
| 44 | 4.319 | 5 | | • | • | | | |
| 45 | 0.277 | 4 | | • | • | | | |
| 46 | 0.408 | 4 | | | | | | |
| 47 | 1.719 | 4 | • | | | | | |
| 48 | 3.064 | 4 | | | | | | |
| 49 | 3.159 | 4 | | • | • | | | |
| 50 | 3.513 | 4 | | • | • | | • | |
| 51 | 3.881 | 4 | • | • | | | | |
| 52 | 3.908 | 4 | | | | | | |
| 53 | 4.317 | 4 | | | | | | |
| 54 | 0.381 | 3 | | | | | • | • |
| 55 | 1.141 | 3 | | | • | | | • |
| 56 | 2.721 | 3 | | | | | • | • |
| 57 | 3.482 | 3 | • | | | | | |
| 58 | 4.146 | 3 | • | | • | | | |

Table D-3 (concluded)

| | | CENSUS REGION | NORTH CENTRAL | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST NORTH CENTRAL | | | WEST NORTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index Number | Average RRT | Total Number of Occurrences [a] | | | | | | |
| 59 | 0.285 | 2 | | | | | | • |
| 60 | 0.573 | 2 | | | | | | • |
| 61 | 2.141 | 2 | • | | • | | | |
| 62 | 2.892 | 2 | | | | | | |
| 63 | 3.012 | 2 | | | | | • | |
| 64 | 3.551 | 2 | | | | | | |
| 65 | 3.564 | 2 | | • • | | | | |
| 66 | 3.700 | 2 | • | | | | | |
| 67 | 3.963 | 2 | | | | | | |
| 68 | 4.113 | 2 | | | | | | |
| 69 | 0.313 | 1 | | | | | | • |
| 70 | 1.036 | 1 | | | • | | | |
| 71 | 1.511 | 1 | | | | | | |
| 72 | 1.672 | 1 | | | | | | • |
| 73 | 2.028 | 1 | | | | | | |
| 74 | 2.239 | 1 | | | | | | • |
| 75 | 2.262 | 1 | | | | | | |
| 76 | 2.271 | 1 | | | | | | |
| 77 | 2.301 | 1 | | | | | | • |
| 78 | 2.407 | 1 | | • | | | | |
| 79 | 2.671 | 1 | | | | | | |
| 80 | 2.891 | 1 | | | | | | |
| 81 | 2.907 | 1 | | | | | | |
| 82 | 2.988 | 1 | | | | | | • |
| 83 | 3.073 | 1 | | | | | | |
| 84 | 3.100 | 1 | | | | | | |
| 85 | 3.175 | 1 | | | | | | |
| 86 | 3.314 | 1 | | | | | | |
| 87 | 3.371 | 1 | | | | | | |
| 88 | 3.453 | 1 | | | | • | | |
| 89 | 3.461 | 1 | • | | | | | |
| 90 | 3.494 | 1 | | | | | | • |
| 91 | 3.650 | 1 | | | | | | |
| 92 | 3.782 | 1 | | | | | | |
| 93 | 3.829 | 1 | | • | | | | |
| 94 | 3.975 | 1 | | | | | | |
| 95 | 3.993 | 1 | | | | | | |
| 96 | 4.192 | 1 | | | | | | |
| 97 | 4.635 | 1 | | | | | | |
| 98 | 4.812 | 1 | | | | | | |
| 99 | 5.004 | 1 | | | | | | |

[a]Total number of occurrences from all sample analyses (four census regions and nine census divisions).

000040

Table D-4. Unidentified Peaks in the Volatile Organic Analysis Data Set - Northeast Census Region

| | | CENSUS REGION | NORTHEAST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MIDDLE ATLANTIC | | | NEW ENGLAND | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index Number | Average RRT | Total Number of Occurrences [a] | | | | | | |
| I.S. | 1.000 | 46 | • • | • • | • • | • | • | • |
| 1 | 0.481 | 46 | • • | • • | • • | • | • | • |
| 2 | 3.216 | 46 | • • | • • | • • | • | • | • |
| 3 | 3.114 | 45 | • • | • • | • • | • | • | • |
| 4 | 2.659 | 44 | • • | • • | • • | • | • | • |
| 5 | 4.213 | 43 | • • | • • | • • | • | • | • |
| 6 | 0.370 | 41 | • • | • • | • • | • | • | • |
| 7 | 2.398 | 41 | • • | • • | • • | | • | • |
| 8 | 0.405 | 34 | • • | • • | • • | • | • | |
| 9 | 2.890 | 30 | • • | • | • • | | • | |
| 10 | 4.353 | 28 | • • | • • | • • | • | • | • |
| 11 | 3.862 | 24 | • | | • • | • | • | • |
| 12 | 0.286 | 23 | • | • | • | | | |
| 13 | 3.322 | 21 | | • | • • | | • | |
| 14 | 3.314 | 18 | • | • | • | | | • |
| 15 | 2.771 | 14 | | | | | • | • |
| 16 | 2.689 | 13 | • | | | | | |
| 17 | 1.997 | 12 | | • • | • | • | • | • |
| 18 | 3.384 | 12 | | | | | | |
| 19 | 3.873 | 12 | | • | • | | | |
| 20 | 2.666 | 11 | | • | | | | |
| 21 | 4.390 | 11 | | | • | | • | • |
| 22 | 2.570 | 10 | | | • | | | |
| 23 | 3.962 | 9 | | | | | | • |
| 24 | 4.142 | 9 | | | | | | |
| 25 | 0.335 | 8 | • | | | | | |
| 26 | 2.369 | 8 | • • | | | | | |
| 27 | 2.619 | 8 | • • | | | | | |
| 28 | 3.364 | 8 | • | • | | • | • | |
| 29 | 3.812 | 8 | • • | • | • | | | |
| 30 | 1.488 | 7 | | | | | | |
| 31 | 2.572 | 7 | | | | | | |
| 32 | 3.177 | 7 | • | • | • | | | |
| 33 | 4.159 | 7 | | | | | | |
| 34 | 2.053 | 6 | • | • | | | | |
| 35 | 4.388 | 6 | | • | • | | | |
| 36 | 4.573 | 6 | | • | • | | | |
| 37 | 0.802 | 5 | • • | • | • | | | • |
| 38 | 1.744 | 5 | | | | | • | • |
| 39 | 2.495 | 5 | | | | | | • |
| 40 | 2.867 | 5 | | • | • | | | |
| 41 | 2.906 | 5 | | | | | | • |
| 42 | 3.308 | 5 | | | | | | |
| 43 | 3.501 | 5 | | | | | | |
| 44 | 4.319 | 5 | | • | | | | |
| 45 | 0.277 | 4 | • | | | | | • |
| 46 | 0.408 | 4 | | | | | | |
| 47 | 1.719 | 4 | | | | | | |
| 48 | 3.064 | 4 | | | | | | |
| 49 | 3.159 | 4 | | | | | | |
| 50 | 3.513 | 4 | | | | | • | |
| 51 | 3.881 | 4 | | | | | | |
| 52 | 3.908 | 4 | | • | • | | | • |
| 53 | 4.317 | 4 | | | | | | |
| 54 | 0.381 | 3 | | | | | | |
| 55 | 1.141 | 3 | | | | | | |
| 56 | 2.721 | 3 | | | | | | |
| 57 | 3.482 | 3 | | | | | | |
| 58 | 4.146 | 3 | | | | | | |

Table D-4 (concluded)

| | | CENSUS REGION | NORTHEAST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MIDDLE ATLANTIC | | | NEW ENGLAND | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index Number | Average RRT | Total Number of Occurrences [a] | | | | | | |
| 59 | 0.285 | 2 | | | | | | |
| 60 | 0.573 | 2 | | | | | | |
| 61 | 2.141 | 2 | | | | | | |
| 62 | 2.892 | 2 | | | | | | |
| 63 | 3.012 | 2 | | | | | | |
| 64 | 3.551 | 2 | | | | | | |
| 65 | 3.564 | 2 | | | | | | |
| 66 | 3.700 | 2 | | | | | | |
| 67 | 3.963 | 2 | | | | | | |
| 68 | 4.113 | 2 | | | | | | |
| 69 | 0.313 | 1 | | | | | | |
| 70 | 1.036 | 1 | | | | | | |
| 71 | 1.511 | 1 | | | | | | |
| 72 | 1.672 | 1 | | | | | | |
| 73 | 2.028 | 1 | | | | | | |
| 74 | 2.239 | 1 | | | | | | |
| 75 | 2.262 | 1 | | | | | | |
| 76 | 2.271 | 1 | | | | | | |
| 77 | 2.301 | 1 | | | | | | |
| 78 | 2.407 | 1 | | | | | | |
| 79 | 2.671 | 1 | | | | | | |
| 80 | 2.891 | 1 | | | | | | |
| 81 | 2.907 | 1 | | | | | | |
| 82 | 2.988 | 1 | | | | | | |
| 83 | 3.073 | 1 | | | | | | |
| 84 | 3.100 | 1 | | | | | | |
| 85 | 3.175 | 1 | | | | | | |
| 86 | 3.314 | 1 | | | | | | |
| 87 | 3.371 | 1 | | | | | | |
| 88 | 3.453 | 1 | | | | | | |
| 89 | 3.461 | 1 | | | | | | |
| 90 | 3.494 | 1 | | | | | | |
| 91 | 3.650 | 1 | | | | | | |
| 92 | 3.782 | 1 | | | | | | |
| 93 | 3.829 | 1 | | | | | | |
| 94 | 3.975 | 1 | | | | | | |
| 95 | 3.993 | 1 | | | | | | |
| 96 | 4.192 | 1 | | | | | | |
| 97 | 4.635 | 1 | | | | | | |
| 98 | 4.812 | 1 | | | | | | |
| 99 | 5.004 | 1 | | | | | | |

[a]Total number of occurrences from all sample analyses (four census regions and nine census divisions).

APPENDIX E

DOT MATRIX TABLE FOR UNIDENTIFIED HRGC/MS PEAKS IN THE 6% FLORISIL SEMIVOLATILE ORGANIC ANALYSIS DATA SET; UNIDENTIFIED SEMIVOLATILE ORGANIC COMPOUND RESPONSES VS. CENSUS REGION, CENSUS DIVISION, AND AGE GROUP

Table E-1. Unidentified Peaks in the 6% Florisil Semivolatile Organic Analysis Data Set - West Census Region

| | | CENSUS REGION | WEST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MOUNTAIN | | | PACIFIC | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples [a] | | | | | | |
| I.S. | 1.000 | 44 | • | • | • | • | | • |
| 1 | 0.924 | 42 | | • | • | | | • |
| 2 | 1.600 | 42 | • | • | • | • | | • |
| 3 | 0.759 | 38 | | | • | | | • |
| 4 | 1.027 | 38 | • | • | • | • | | • |
| 5 | 1.023 | 35 | | • | • | • | | • |
| 6 | 1.117 | 34 | • | • | | • | | • |
| 7 | 1.706 | 34 | | | • | | | • |
| 8 | 1.129 | 32 | • | • | | • | | • |
| 9 | 0.879 | 31 | | | • | | | |
| 10 | 0.702 | 30 | | • | • | • | | • |
| 11 | 0.919 | 30 | | • | • | | | |
| 12 | 0.990 | 29 | | • | | • | | • |
| 13 | 0.838 | 28 | | • | | • | | • |
| 14 | 0.912 | 26 | • | • | • | • | | |
| 15 | 1.481 | 26 | | | • | | | • |
| 16 | 1.760 | 25 | | | • | | | • |
| 17 | 0.985 | 24 | | | • | | | • |
| 18 | 1.059 | 24 | | • | • | | | • |
| 19 | 0.673 | 23 | | • | | • | | • |
| 20 | 0.993 | 23 | | | • | | | • |
| 21 | 0.982 | 22 | | • | | | | • |
| 22 | 1.533 | 22 | | | • | | | |
| 23 | 1.063 | 21 | | | • | • | | • |
| 24 | 1.199 | 21 | | | | | | |
| 25 | 1.374 | 21 | | | | | | • |
| 26 | 0.726 | 19 | | | • | | | |
| 27 | 1.741 | 19 | | | • | | | |
| 28 | 0.952 | 17 | | | • | | | • |
| 29 | 1.237 | 17 | • | • | | | | • |
| 30 | 1.629 | 17 | | • | | | | |
| 31 | 1.586 | 16 | | | | | | |
| 32 | 0.493 | 15 | | • | | • | | • |
| 33 | 1.002 | 15 | | | • | | | |
| 34 | 1.065 | 15 | | • | | | | |
| 35 | 0.839 | 14 | | | • | | | |
| 36 | 1.070 | 14 | • | • | | | | • |
| 37 | 1.728 | 14 | | | • | | | |
| 38 | 0.574 | 13 | • | | • | | | |
| 39 | 0.665 | 13 | | | | | | |
| 40 | 1.178 | 13 | | | | • | | |
| 41 | 1.280 | 13 | | | | | | • |
| 42 | 1.297 | 13 | | • | | | | |
| 43 | 0.190 | 12 | • | | | • | | |
| 44 | 0.666 | 12 | | • | | | | |
| 45 | 0.310 | 11 | • | • | | | | • |
| 46 | 0.603 | 11 | • | | | | | |
| 47 | 1.082 | 11 | • | • | | • | | |
| 48 | 1.131 | 11 | | • | • | | | |
| 49 | 1.146 | 11 | • | • | | • | | |
| 50 | 0.411 | 10 | • | • | | • | | |
| 51 | 0.780 | 10 | | • | | • | | |
| 52 | 1.009 | 10 | • | • | | • | | |
| 53 | 1.160 | 10 | | | | | | • |
| 54 | 1.219 | 10 | | | • | | | |
| 55 | 1.224 | 9 | | | • | | | • |
| 56 | 0.220 | 8 | • | | | • | | |
| 57 | 0.670 | 8 | | | • | | | |

Table E-1 (continued)

| | | CENSUS REGION | WEST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MOUNTAIN | | | PACIFIC | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples [a] | | | | | | |
| 58 | 0.959 | 8 | | | • | | | |
| 59 | 1.178 | 8 | | • | | | | |
| 60 | 1.197 | 8 | • | • | | | | |
| 61 | 1.626 | 8 | | | | | | |
| 62 | 1.638 | 8 | | | | | | |
| 63 | 0.360 | 7 | | • | | | | |
| 64 | 0.674 | 7 | | | | | | |
| 65 | 0.897 | 7 | | | | | | |
| 66 | 0.932 | 7 | | | | | | |
| 67 | 1.051 | 7 | | | | • | | • |
| 68 | 1.094 | 7 | | | | | | |
| 69 | 1.427 | 7 | | | | • | | |
| 70 | 1.475 | 7 | | | | | | |
| 71 | 1.681 | 7 | | | • | | | |
| 72 | 1.773 | 7 | | | | | | |
| 73 | 0.337 | 6 | | | | • | | |
| 74 | 0.662 | 6 | | • | • | | | |
| 75 | 0.880 | 6 | | | | • | | • |
| 76 | 1.177 | 6 | | | | | | |
| 77 | 1.253 | 6 | | | | | | • |
| 78 | 1.681 | 6 | | | | | | |
| 79 | 0.278 | 5 | | | | | | |
| 80 | 0.472 | 5 | | | | | | |
| 81 | 0.736 | 5 | | | | | | |
| 82 | 0.991 | 5 | | | | | | |
| 83 | 1.057 | 5 | | | | • | | |
| 84 | 1.069 | 5 | | | | | | |
| 85 | 1.073 | 5 | | | | | | • |
| 86 | 1.085 | 5 | | | | | | |
| 87 | 1.195 | 5 | | • | | • | | |
| 88 | 1.407 | 5 | | | | | | |
| 89 | 0.399 | 4 | | | | | | |
| 90 | 0.661 | 4 | | | | | | |
| 91 | 0.730 | 4 | | | | • | | |
| 92 | 0.965 | 4 | | | | | | |
| 93 | 1.068 | 4 | | | | • | | |
| 94 | 1.144 | 4 | | | | | | |
| 95 | 1.195 | 4 | | | | • | | |
| 96 | 1.222 | 4 | | | • | | | |
| 97 | 1.326 | 4 | | | • | | | • |
| 98 | 1.355 | 4 | | | | | | |
| 99 | 1.389 | 4 | | | | | | |
| 100 | 1.411 | 4 | | | | | | |
| 101 | 1.538 | 4 | | | • | | | |
| 102 | 0.316 | 3 | • | | | | | |
| 103 | 0.608 | 3 | | • | | | | |
| 104 | 0.662 | 3 | • | | | | | |
| 105 | 0.747 | 3 | | • | | | | |
| 106 | 0.754 | 3 | | | | | | |
| 107 | 0.855 | 3 | | • | • | | | |
| 108 | 0.893 | 3 | | | | | | |
| 109 | 0.918 | 3 | | | | | | |
| 110 | 0.967 | 3 | | | | | | |
| 111 | 1.019 | 3 | | | | | | |
| 112 | 1.025 | 3 | | | | | | |
| 113 | 1.041 | 3 | | | | | | |
| 114 | 1.045 | 3 | | | | | | |
| 115 | 1.050 | 3 | | • | | | | |

Table E-1 (continued)

| | | CENSUS REGION | WEST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MOUNTAIN | | | PACIFIC | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples a | | | | | | |
| 116 | 1.055 | 3 | | | | | | |
| 117 | 1.076 | 3 | | | | | | |
| 118 | 1.107 | 3 | | | | | | |
| 119 | 1.109 | 3 | | | | | | |
| 120 | 1.186 | 3 | | • | | | | |
| 121 | 1.244 | 3 | | | | | | |
| 122 | 1.251 | 3 | | | | | | |
| 123 | 1.414 | 3 | | | | | | • |
| 124 | 1.457 | 3 | | | | | | |
| 125 | 1.585 | 3 | | | | | | |
| 126 | 0.325 | 2 | | | | | | |
| 127 | 0.356 | 2 | | | | | | |
| 128 | 0.747 | 2 | | | | | | |
| 129 | 0.754 | 2 | | | | | | |
| 130 | 0.817 | 2 | | | • | | | |
| 131 | 0.823 | 2 | | | | | | |
| 132 | 0.855 | 2 | | • | | | | |
| 133 | 0.896 | 2 | | | • | | | |
| 134 | 0.898 | 2 | | | | | | |
| 135 | 0.905 | 2 | | | | | | |
| 136 | 0.933 | 2 | | • | | | | |
| 137 | 0.976 | 2 | | | | | | |
| 138 | 0.982 | 2 | | | | | | |
| 139 | 0.985 | 2 | • | | | | | |
| 140 | 1.020 | 2 | | | | | | |
| 141 | 1.038 | 2 | | | | | | |
| 142 | 1.053 | 2 | | | | | | |
| 143 | 1.080 | 2 | | | | | | |
| 144 | 1.106 | 2 | | | | | | • |
| 145 | 1.120 | 2 | | | | | | |
| 146 | 1.124 | 2 | | | | | | |
| 147 | 1.143 | 2 | | | | | | |
| 148 | 1.152 | 2 | | | • | | | |
| 149 | 1.158 | 2 | | | | | | |
| 150 | 1.179 | 2 | | | | | | • |
| 151 | 1.221 | 2 | | | | | | |
| 152 | 1.252 | 2 | | | | | | |
| 153 | 1.336 | 2 | | | | | | |
| 154 | 1.345 | 2 | | | | | | |
| 155 | 1.360 | 2 | | | | | | |
| 156 | 1.382 | 2 | | | | | | |
| 157 | 1.542 | 2 | | | | | | |
| 158 | 1.577 | 2 | | | | | | |
| 159 | 1.589 | 2 | | | | | | |
| 160 | 1.600 | 2 | | | | | | • |
| 161 | 1.680 | 2 | | | | | | |
| 162 | 1.727 | 2 | | | | | | |
| 163 | 1.731 | 2 | | | | | | |
| 164 | 0.229 | 1 | | | | | | |
| 165 | 0.255 | 1 | | | | | | |
| 166 | 0.266 | 1 | | | | | | |
| 167 | 0.269 | 1 | | | | • | | |
| 168 | 0.279 | 1 | | | • | | | |
| 169 | 0.293 | 1 | | | | | | |
| 170 | 0.300 | 1 | | | | | | |
| 171 | 0.329 | 1 | | | | | | |
| 172 | 0.357 | 1 | | • | | | | |
| 173 | 0.406 | 1 | | | | | | |

Table E-1 (continued)

| | | CENSUS REGION | WEST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MOUNTAIN | | | PACIFIC | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples [a] | | | | | | |
| 174 | 0.406 | 1 | | | | | | |
| 175 | 0.463 | 1 | | | | | | |
| 176 | 0.499 | 1 | | | | | | |
| 177 | 0.539 | 1 | | | | | | |
| 178 | 0.575 | 1 | | | | | | |
| 179 | 0.672 | 1 | | | | | | |
| 180 | 0.676 | 1 | | | | | | |
| 181 | 0.708 | 1 | | | | | | |
| 182 | 0.724 | 1 | | | | | | |
| 183 | 0.732 | 1 | | | | | | |
| 184 | 0.732 | 1 | | | | | | |
| 185 | 0.734 | 1 | | | | | | |
| 186 | 0.742 | 1 | | | | | | |
| 187 | 0.743 | 1 | | | | | | |
| 188 | 0.747 | 1 | | | | | | |
| 189 | 0.749 | 1 | | | | | | |
| 190 | 0.799 | 1 | | | | | | |
| 191 | 0.829 | 1 | | | | | | |
| 192 | 0.830 | 1 | | | | | | |
| 193 | 0.855 | 1 | | | | | | |
| 194 | 0.892 | 1 | | | | | | |
| 195 | 0.911 | 1 | | | | | | |
| 196 | 0.914 | 1 | | | | | | |
| 197 | 0.973 | 1 | | | | | | |
| 198 | 1.011 | 1 | | | | | | |
| 199 | 1.018 | 1 | | | | | | |
| 200 | 1.035 | 1 | | | | | | |
| 201 | 1.051 | 1 | | | | | | |
| 202 | 1.053 | 1 | | | | | | |
| 203 | 1.060 | 1 | | | | | | |
| 204 | 1.064 | 1 | | | | | | |
| 205 | 1.075 | 1 | | | | | | |
| 206 | 1.078 | 1 | | | | | | |
| 207 | 1.084 | 1 | | | | | | |
| 208 | 1.107 | 1 | | | | | | |
| 209 | 1.117 | 1 | | | | | | |
| 210 | 1.117 | 1 | | | | | | |
| 211 | 1.118 | 1 | | | | | | |
| 212 | 1.121 | 1 | | | | | | |
| 213 | 1.122 | 1 | | | | | | |
| 214 | 1.134 | 1 | | | | | | |
| 215 | 1.134 | 1 | | | | | | |
| 216 | 1.138 | 1 | | | | | | |
| 217 | 1.140 | 1 | | | | | | |
| 218 | 1.140 | 1 | | | | | | |
| 219 | 1.152 | 1 | | | | | | |
| 220 | 1.161 | 1 | | | | | | |
| 221 | 1.170 | 1 | | | | | | |
| 222 | 1.189 | 1 | | | | | | |
| 223 | 1.208 | 1 | | | | | | |
| 224 | 1.217 | 1 | | | | | | |
| 225 | 1.226 | 1 | | | | | | |
| 226 | 1.262 | 1 | | | | | | |
| 227 | 1.288 | 1 | | | | | | |
| 228 | 1.289 | 1 | | | | | | |
| 229 | 1.304 | 1 | | | | | | |
| 230 | 1.348 | 1 | | | | | | |
| 231 | 1.349 | 1 | | | | | | |

Table E-1 (concluded)

| | | CENSUS REGION | WEST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MOUNTAIN | | | PACIFIC | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples [a] | | | | | | |
| 232 | 1.349 | 1 | | | | | | |
| 233 | 1.350 | 1 | | | | | | |
| 234 | 1.356 | 1 | | | | | | |
| 235 | 1.375 | 1 | | | | | | |
| 236 | 1.379 | 1 | | | | | | |
| 237 | 1.394 | 1 | | | | | | |
| 238 | 1.407 | 1 | | | | | | |
| 239 | 1.534 | 1 | | | | | | |
| 240 | 1.588 | 1 | | | | | | |
| 241 | 1.590 | 1 | | | | | | |
| 242 | 1.596 | 1 | | | | | | |
| 243 | 1.624 | 1 | | | | | | |
| 244 | 1.634 | 1 | | | | | | |
| 245 | 1.646 | 1 | | | | | | |
| 246 | 1.659 | 1 | | | | | | |
| 247 | 1.676 | 1 | | | | | | |
| 248 | 1.678 | 1 | | | | | | |
| 249 | 1.701 | 1 | | | | | | |
| 250 | 1.709 | 1 | | | | | | |
| 251 | 1.718 | 1 | | | | | | |
| 252 | 1.721 | 1 | | | | | | |
| 253 | 1.731 | 1 | | | | | | |
| 254 | 1.734 | 1 | | | | | | |
| 255 | 1.734 | 1 | | | | | | |
| 256 | 1.740 | 1 | | | | | | |
| 257 | 1.804 | 1 | | | | | | |
| 258 | 1.889 | 1 | | | | | | |

[a]Total number of occurrences from all sample analyses (four census regions and nine census divisions).

Table E-2. Unidentified Peaks in the 6% Florisil Semivolatile Organic Analysis Data Set - South Census Region

| | | CENSUS REGION | SOUTH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST SOUTH CENTRAL | | | SOUTH ATLANTIC | | | WEST SOUTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples [a] | | | | | | | | | |
| I.S. | 1.000 | 44 | • | • | • • | • • | • • • • | • • • • | • | • • | • |
| 1 | 0.924 | 42 | • | • | • • | • • | • • • • | • • • • | • | • • | • |
| 2 | 1.600 | 42 | • | • | • • | • • | • • • • | • • • • | • | • • | • |
| 3 | 0.759 | 38 | • | • | • • | • | • • • • | • • • • | • | • • | • |
| 4 | 1.027 | 38 | • | | • | • • | • • • • | • • • • | • | • | • |
| 5 | 1.023 | 35 | | • | • • | • • | • • • • | • • • • | | • • | • |
| 6 | 1.117 | 34 | | • | • | • | • • • • | • • • • | • | • • | • |
| 7 | 1.706 | 34 | • | • | • • | • | • • • • | • • • • | | • • | • |
| 8 | 1.129 | 32 | | • | • | • | • • • • | • • • • | • | • • | • |
| 9 | 0.879 | 31 | • | • | • • | • • | • • • | • • • | | • • | |
| 10 | 0.702 | 30 | | • | • • | • | • • • • | • • • | | • | • |
| 11 | 0.919 | 30 | • | • | • | • • | • • | • • | • | • • | • |
| 12 | 0.990 | 29 | | • | • | • | • • | • • • • | • | • • | • |
| 13 | 0.838 | 28 | | | | • • | • • • • | • • • | • | • • | • |
| 14 | 0.912 | 26 | • | | • | • • | • • | • | • | • • | • |
| 15 | 1.481 | 26 | • | • | • • | • • | • • • | • • | • | • • | • |
| 16 | 1.760 | 25 | • | | • • | • | • • • | • • • • | | • • | • |
| 17 | 0.985 | 24 | • | • | • • | • | • | • • • | | • | |
| 18 | 1.059 | 24 | • | • | • • | • | • | • • | • | • • | • |
| 19 | 0.673 | 23 | | | | • | • | • | • | • • | • |
| 20 | 0.993 | 23 | • | • | • • | • | • • | • • | | • | |
| 21 | 0.982 | 22 | | | | | • | • • | • • | • • | • |
| 22 | 1.533 | 22 | • | | • | • | • • | • | • | • • | • |
| 23 | 1.063 | 21 | | | • • | • | • | • • | • | | • |
| 24 | 1.199 | 21 | • | | • • | • | • • | • • | • | | |
| 25 | 1.374 | 21 | • | | • | • • | • • | • | • | • • | |
| 26 | 0.726 | 19 | | • | • • | | • • | • | | | • |
| 27 | 1.741 | 19 | • | | • | • | • • • | • | | • | |
| 28 | 0.952 | 17 | | | • • | | | • • • | | | • |
| 29 | 1.237 | 17 | | | | • | • • | • • | | • • | |
| 30 | 1.629 | 17 | | | • • | • • | • | • • • • | • | | • |
| 31 | 1.586 | 16 | • | | • • | • | • | • • | • | | • |
| 32 | 0.493 | 15 | | | | | • | • | | | • |
| 33 | 1.002 | 15 | | | • | | • • | • • • | | • | |
| 34 | 1.065 | 15 | • | • | | • | • • • | | | • • | |
| 35 | 0.839 | 14 | • | • | • • | | • • | • | | | |
| 36 | 1.070 | 14 | | | | • • | • | • | • | | |
| 37 | 1.728 | 14 | • | | • | | • • | • • | | | |
| 38 | 0.574 | 13 | • | | | • • | | • | • | • | • |
| 39 | 0.665 | 13 | | | • | • | • | • • | | | |
| 40 | 1.178 | 13 | | • | | • | • | • | • | | • |
| 41 | 1.280 | 13 | • | | • • | • | | • • | | | |
| 42 | 1.297 | 13 | | | | • | • | • | • | • • | • |
| 43 | 0.190 | 12 | • | | | • • | | | • | | |
| 44 | 0.666 | 12 | | | | | • | • | | | |
| 45 | 0.310 | 11 | | | | | • | • | | | |
| 46 | 0.603 | 11 | • | • | • • | | • | • • | | | |
| 47 | 1.082 | 11 | | | | • • | • | • | | | |
| 48 | 1.131 | 11 | • | • | • | • | | | | | |
| 49 | 1.146 | 11 | | | | • | • | • | | | |
| 50 | 0.411 | 10 | | | | • | • | • | | | |
| 51 | 0.780 | 10 | | | | • • | • • | • | | | |
| 52 | 1.009 | 10 | • | | | • • | • | • | | | |
| 53 | 1.160 | 10 | | | • | | | • • | | | |
| 54 | 1.219 | 10 | | | • • | | | • | | | |
| 55 | 1.224 | 9 | | | • | | | | | | |
| 56 | 0.220 | 8 | | | | • | | | | | |
| 57 | 0.670 | 8 | • | | • | • | • • | • | | | |

Table E-2 (continued)

| | | CENSUS REGION | SOUTH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST SOUTH CENTRAL | | | SOUTH ATLANTIC | | | WEST SOUTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples a | | | | | | | | | |
| 58 | 0.959 | 8 | | | • | | | • | | | |
| 59 | 1.178 | 8 | | | | • | | • | | • • | |
| 60 | 1.197 | 8 | | | | • | • • • | • | | | |
| 61 | 1.626 | 8 | | | • | | | • • • | | | |
| 62 | 1.638 | 8 | | | • • | | • • • | | | • | |
| 63 | 0.360 | 7 | | | | | | • • • | | • | |
| 64 | 0.674 | 7 | | | | • | | | | • | |
| 65 | 0.897 | 7 | | | | • | • • • | • • | | | |
| 66 | 0.932 | 7 | | | | • | • | • | | | |
| 67 | 1.051 | 7 | | | | | | | • | | |
| 68 | 1.094 | 7 | • | | | | | • | | | |
| 69 | 1.427 | 7 | | • | | | • | | • | • | |
| 70 | 1.475 | 7 | | | | | | • | | | |
| 71 | 1.681 | 7 | | | | | | • | | | |
| 72 | 1.773 | 7 | | | • | | | • • | | | |
| 73 | 0.337 | 6 | | | | • | • | • | | | • |
| 74 | 0.662 | 6 | | | | • | | | | | |
| 75 | 0.860 | 6 | | | | | | • | | | • |
| 76 | 1.177 | 6 | | | • | | | • | | | |
| 77 | 1.253 | 6 | • | | | • | | | | | |
| 78 | 1.681 | 6 | | | | | • • | • | • | | |
| 79 | 0.278 | 5 | | | | | | • • | | | |
| 80 | 0.472 | 5 | | | | | • • • | | | | |
| 81 | 0.736 | 5 | | | • | | • | • | | | |
| 82 | 0.991 | 5 | | | | | • • | | | | |
| 83 | 1.057 | 5 | | | | | • | | | | |
| 84 | 1.069 | 5 | | | | | | • | | | |
| 85 | 1.073 | 5 | | | | | | • | | | |
| 86 | 1.085 | 5 | | | • | | | | | | |
| 87 | 1.195 | 5 | | | | • | • | • | | | |
| 88 | 1.407 | 5 | | | • | | | • | | | |
| 89 | 0.399 | 4 | | | | | | | | | |
| 90 | 0.661 | 4 | | | | | | | | • | |
| 91 | 0.730 | 4 | | | | | • | • | | | |
| 92 | 0.965 | 4 | | | | | | | • | | |
| 93 | 1.068 | 4 | | | | | • | | | | |
| 94 | 1.144 | 4 | | | • | | | | | | |
| 95 | 1.195 | 4 | | | | • | | | | | |
| 96 | 1.222 | 4 | | | • | | | • | | | |
| 97 | 1.326 | 4 | | | | | | | | | |
| 98 | 1.355 | 4 | | | • | | | | • | | |
| 99 | 1.389 | 4 | | | • | | | • | | | |
| 100 | 1.411 | 4 | | | | • | | • | | | |
| 101 | 1.538 | 4 | | | | | | • | | | |
| 102 | 0.316 | 3 | | | | | | | | | |
| 103 | 0.608 | 3 | | | | • | | | | | |
| 104 | 0.662 | 3 | • | | | | • | | | | |
| 105 | 0.747 | 3 | | | | | | | | | |
| 106 | 0.754 | 3 | | | | | | | | | |
| 107 | 0.855 | 3 | | | • | | | | | | |
| 108 | 0.893 | 3 | | | | • | • | • | | | |
| 109 | 0.918 | 3 | | | | | • • | | | | |
| 110 | 0.967 | 3 | | | | | | | | | |
| 111 | 1.019 | 3 | | | | | | | | | |
| 112 | 1.025 | 3 | | • | | | • | | | | |
| 113 | 1.041 | 3 | | | | | | | | | |
| 114 | 1.045 | 3 | | | • | | | • | | | |
| 115 | 1.050 | 3 | | | | | • | | | | |

Table E-2 (continued)

| | | CENSUS REGION | SOUTH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST SOUTH CENTRAL | | | SOUTH ATLANTIC | | | WEST SOUTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples[a] | | | | | | | | | |
| 116 | 1.055 | 3 | | | | | | | | | |
| 117 | 1.076 | 3 | | | | | | | | | |
| 118 | 1.107 | 3 | | | | | | | | | |
| 119 | 1.109 | 3 | | | | | | | | | |
| 120 | 1.186 | 3 | | | | | | | | | |
| 121 | 1.244 | 3 | | | | | | | | | |
| 122 | 1.251 | 3 | | | | | | | | | |
| 123 | 1.414 | 3 | | | | | | | | | |
| 124 | 1.457 | 3 | | | | | | | | | |
| 125 | 1.585 | 3 | | | | | | | | | |
| 126 | 0.325 | 2 | | | | | | | | | |
| 127 | 0.356 | 2 | | | | | | | | | |
| 128 | 0.747 | 2 | | | | | | | | | |
| 129 | 0.754 | 2 | | | | | | | | | |
| 130 | 0.817 | 2 | | | | | | | | | |
| 131 | 0.823 | 2 | | | | | | | | | |
| 132 | 0.855 | 2 | | | | | | | | | |
| 133 | 0.896 | 2 | | | | | | | | | |
| 134 | 0.898 | 2 | | | | | | | | | |
| 135 | 0.905 | 2 | | | | | | | | | |
| 136 | 0.933 | 2 | | | | | | | | | |
| 137 | 0.976 | 2 | | | | | | | | | |
| 138 | 0.982 | 2 | | | | | | | | | |
| 139 | 0.985 | 2 | | | | | | | | | |
| 140 | 1.020 | 2 | | | | | | | | | |
| 141 | 1.038 | 2 | | | | | | | | | |
| 142 | 1.053 | 2 | | | | | | | | | |
| 143 | 1.080 | 2 | | | | | | | | | |
| 144 | 1.106 | 2 | | | | | | | | | |
| 145 | 1.120 | 2 | | | | | | | | | |
| 146 | 1.124 | 2 | | | | | | | | | |
| 147 | 1.143 | 2 | | | | | | | | | |
| 148 | 1.152 | 2 | | | | | | | | | |
| 149 | 1.158 | 2 | | | | | | | | | |
| 150 | 1.179 | 2 | | | | | | | | | |
| 151 | 1.221 | 2 | | | | | | | | | |
| 152 | 1.252 | 2 | | | | | | | | | |
| 153 | 1.336 | 2 | | | | | | | | | |
| 154 | 1.345 | 2 | | | | | | | | | |
| 155 | 1.360 | 2 | | | | | | | | | |
| 156 | 1.382 | 2 | | | | | | | | | |
| 157 | 1.542 | 2 | | | | | | | | | |
| 158 | 1.577 | 2 | | | | | | | | | |
| 159 | 1.589 | 2 | | | | | | | | | |
| 160 | 1.600 | 2 | | | | | | | | | |
| 161 | 1.680 | 2 | | | | | | | | | |
| 162 | 1.727 | 2 | | | | | | | | | |
| 163 | 1.731 | 2 | | | | | | | | | |
| 164 | 0.229 | 1 | | | | | | | | | |
| 165 | 0.255 | 1 | | | | | | | | | |
| 166 | 0.266 | 1 | | | | | | | | | |
| 167 | 0.269 | 1 | | | | | | | | | |
| 168 | 0.279 | 1 | | | | | | | | | |
| 169 | 0.293 | 1 | | | | | | | | | |
| 170 | 0.300 | 1 | | | | | | | | | |
| 171 | 0.329 | 1 | | | | | | | | | |
| 172 | 0.357 | 1 | | | | | | | | | |
| 173 | 0.406 | 1 | | | | | | | | | |

Table E-2 (continued)

| | | CENSUS REGION | SOUTH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST SOUTH CENTRAL | | | SOUTH ATLANTIC | | | WEST SOUTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples a | | | | | | | | | |
| 174 | 0.406 | 1 | | | | | | | | | |
| 175 | 0.463 | 1 | | | | | | | | | |
| 176 | 0.499 | 1 | | | | | | | | | |
| 177 | 0.539 | 1 | | | | | | | | | |
| 178 | 0.575 | 1 | | | | | | | | | |
| 179 | 0.672 | 1 | | | | | | | | | |
| 180 | 0.676 | 1 | | | | | | | | | |
| 181 | 0.708 | 1 | | | | | | | | | |
| 182 | 0.724 | 1 | | | | | | | | | |
| 183 | 0.732 | 1 | | | | | | | | | |
| 184 | 0.732 | 1 | | | | | | | | | |
| 185 | 0.734 | 1 | | | | | | | | | |
| 186 | 0.742 | 1 | | | | | | | | | |
| 187 | 0.743 | 1 | | | | | | | | | |
| 188 | 0.747 | 1 | | | | | | | | | |
| 189 | 0.749 | 1 | | | | | | | | | |
| 190 | 0.799 | 1 | | | | | | | | | |
| 191 | 0.829 | 1 | | | | | | | | | |
| 192 | 0.830 | 1 | | | | | | | | | |
| 193 | 0.855 | 1 | | | | | | | | | |
| 194 | 0.892 | 1 | | | | | | | | | |
| 195 | 0.911 | 1 | | | | | | | | | |
| 196 | 0.914 | 1 | | | | | | | | | |
| 197 | 0.973 | 1 | | | | | | | | | |
| 198 | 1.011 | 1 | | | | | | | | | |
| 199 | 1.018 | 1 | | | | | | | | | |
| 200 | 1.035 | 1 | | | | | | | | | |
| 201 | 1.051 | 1 | | | | | | | | | |
| 202 | 1.053 | 1 | | | | | | | | | |
| 203 | 1.060 | 1 | | | | | | | | | |
| 204 | 1.064 | 1 | | | | | | | | | |
| 205 | 1.075 | 1 | | | | | | | | | |
| 206 | 1.078 | 1 | | | | | | | | | |
| 207 | 1.084 | 1 | | | | | | | | | |
| 208 | 1.107 | 1 | | | | | | | | | |
| 209 | 1.117 | 1 | | | | | | | | | |
| 210 | 1.117 | 1 | | | | | | | | | |
| 211 | 1.118 | 1 | | | | | | | | | |
| 212 | 1.121 | 1 | | | | | | | | | |
| 213 | 1.122 | 1 | | | | | | | | | |
| 214 | 1.134 | 1 | | | | | | | | | |
| 215 | 1.134 | 1 | | | | | | | | | |
| 216 | 1.138 | 1 | | | | | | | | | |
| 217 | 1.140 | 1 | | | | | | | | | |
| 218 | 1.140 | 1 | | | | | | | | | |
| 219 | 1.152 | 1 | | | | | | | | | |
| 220 | 1.161 | 1 | | | | | | | | | |
| 221 | 1.170 | 1 | | | | | | | | | |
| 222 | 1.189 | 1 | | | | | | | | | |
| 223 | 1.208 | 1 | | | | | | | | | |
| 224 | 1.217 | 1 | | | | | | | | | |
| 225 | 1.226 | 1 | | | | | | | | | |
| 226 | 1.262 | 1 | | | | | | | | | |
| 227 | 1.288 | 1 | | | | | | | | | |
| 228 | 1.289 | 1 | | | | | | | | | |
| 229 | 1.304 | 1 | | | | | | | | | |
| 230 | 1.348 | 1 | | | | | | | | | |
| 231 | 1.349 | 1 | | | | | | | | | |

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Table E-2 (concluded)

| | | CENSUS REGION | SOUTH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST SOUTH CENTRAL | | | SOUTH ATLANTIC | | | WEST SOUTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples [a] | | | | | | | | | |
| 232 | 1.349 | 1 | | | | | | | | | |
| 233 | 1.350 | 1 | | | | | | | | | |
| 234 | 1.356 | 1 | | | | | | | | | |
| 235 | 1.375 | 1 | | | | | | | | | |
| 236 | 1.379 | 1 | | | | | | | | | |
| 237 | 1.394 | 1 | | | | | | | | | |
| 238 | 1.407 | 1 | | | | | | | | | |
| 239 | 1.534 | 1 | | | | | | | | | |
| 240 | 1.588 | 1 | | | | | | | | | |
| 241 | 1.590 | 1 | | | | | | | | | |
| 242 | 1.596 | 1 | | | | | | | | | |
| 243 | 1.624 | 1 | | | | | | | | | |
| 244 | 1.634 | 1 | | | | | | | | | |
| 245 | 1.646 | 1 | | | | | | | | | |
| 246 | 1.659 | 1 | | | | | | | | | |
| 247 | 1.676 | 1 | | | | | | | | | |
| 248 | 1.678 | 1 | | | | | | | | | |
| 249 | 1.701 | 1 | | | | | | | | | |
| 250 | 1.709 | 1 | | | | | | | | | |
| 251 | 1.718 | 1 | | | | | | | | | |
| 252 | 1.721 | 1 | | | | | | | | | |
| 253 | 1.731 | 1 | | | | | | | | | |
| 254 | 1.734 | 1 | | | | | | | | | |
| 255 | 1.734 | 1 | | | | | | | | | |
| 256 | 1.740 | 1 | | | | | | | | | |
| 257 | 1.804 | 1 | | | | | | | | | |
| 258 | 1.889 | 1 | | | | | | | | | |

[a]Total number of occurrences from all sample analyses (four census regions and nine census divisions).

Table E-3. Unidentified Peaks in the 6% Florisil Semivolatile Organic Analysis Data Set - North Central Census Region

| | | CENSUS REGION | NORTH CENTRAL | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST NORTH CENTRAL | | | WEST NORTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurences In Samples a | | | | | | |
| I.S. | 1.000 | 44 | • • | • • • | • • • | • | • | • • |
| 1 | 0.924 | 42 | • • | • • • | • • • | • | • | • • |
| 2 | 1.600 | 42 | • • | • • • | • • • | • | • | • • |
| 3 | 0.759 | 38 | • | • • • | • • • | • | • | • |
| 4 | 1.027 | 38 | • • | • • • | • • • | • | • | • • |
| 5 | 1.023 | 35 | • | • • • | • • • | | | • • |
| 6 | 1.117 | 34 | • • | • • • | • • • | • | • | • • |
| 7 | 1.706 | 34 | • | • • • | • • • | • | • | • • |
| 8 | 1.129 | 32 | • • | • • • | • • • | • | • | • • |
| 9 | 0.879 | 31 | • | • • • | • • | • | • | • • |
| 10 | 0.702 | 30 | • | • • • | • • • | | | • • |
| 11 | 0.919 | 30 | • • | • | • • | • | • | • • |
| 12 | 0.990 | 29 | • | • | • • • | • | • | • • |
| 13 | 0.838 | 28 | • • | • • • | • | • | • | |
| 14 | 0.912 | 26 | • • | • • | | • | • | |
| 15 | 1.481 | 26 | • | • • | • • | • | • | • • |
| 16 | 1.760 | 25 | | • | • • • | | • | • • |
| 17 | 0.985 | 24 | | • • | • • • | | | • • |
| 18 | 1.059 | 24 | | • • | • • • | • | | • • |
| 19 | 0.673 | 23 | • | • | • | • | • | • |
| 20 | 0.993 | 23 | | • • | • • • | | | |
| 21 | 0.982 | 22 | • • | • • • | • | • | • | |
| 22 | 1.533 | 22 | • | • • | • • | | • | • • |
| 23 | 1.063 | 21 | • | | • • | • | | • • |
| 24 | 1.199 | 21 | • | • • • | • • • | • | | • |
| 25 | 1.374 | 21 | • | • • | • | • | | • |
| 26 | 0.726 | 19 | | • • | • • • | | | • • |
| 27 | 1.741 | 19 | | • | • • • | | | • • |
| 28 | 0.952 | 17 | | • • | • • • | | | • • |
| 29 | 1.237 | 17 | | • • • | • • | • | | |
| 30 | 1.629 | 17 | | | • | • | | • |
| 31 | 1.586 | 16 | • | | • • | | • | • • |
| 32 | 0.493 | 15 | • | • | • | | | |
| 33 | 1.002 | 15 | | • • | • • | | | • |
| 34 | 1.065 | 15 | • | • • • | | | | |
| 35 | 0.839 | 14 | | • | • | | | • |
| 36 | 1.070 | 14 | • | • | • • | | | |
| 37 | 1.728 | 14 | | • | • • • | | | • • |
| 38 | 0.574 | 13 | • | • | | | | |
| 39 | 0.665 | 13 | • | • • | • • | | | • |
| 40 | 1.178 | 13 | • • | • | | • | • | |
| 41 | 1.280 | 13 | | • | • • • | | | • |
| 42 | 1.297 | 13 | • • | • | | • | • | |
| 43 | 0.190 | 12 | • • | | | • | | |
| 44 | 0.666 | 12 | • | • | • • • | | | |
| 45 | 0.310 | 11 | • • | • | • | | | |
| 46 | 0.603 | 11 | | | | | | • |
| 47 | 1.082 | 11 | | • | • • | | | |
| 48 | 1.131 | 11 | | | | • | | • |
| 49 | 1.146 | 11 | • | • | • | | | |
| 50 | 0.411 | 10 | • | • | • | | | |
| 51 | 0.780 | 10 | • | | • | | | |
| 52 | 1.009 | 10 | • | | • | | | |
| 53 | 1.160 | 10 | | | • • • | | | • |
| 54 | 1.219 | 10 | | • | • • | | | • |
| 55 | 1.224 | 9 | | | • • • | • | | |
| 56 | 0.220 | 8 | • • | | | | | |
| 57 | 0.670 | 8 | | | | | | |

Table E-3 (continued)

| | | CENSUS REGION | NORTH CENTRAL | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST NORTH CENTRAL | | | WEST NORTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurences In Samples [a] | | | | | | |
| 58 | 0.959 | 8 | | | • • | | | • • |
| 59 | 1.178 | 8 | | • | • | | | |
| 60 | 1.197 | 8 | | | | | | |
| 61 | 1.626 | 8 | | | • • | | | • |
| 62 | 1.638 | 8 | • | • | • | | | • |
| 63 | 0.360 | 7 | • | • | | | | |
| 64 | 0.674 | 7 | | | | | • | |
| 65 | 0.897 | 7 | | | • | | | |
| 66 | 0.932 | 7 | | • | • | | | |
| 67 | 1.051 | 7 | • | | • | • | | |
| 68 | 1.094 | 7 | | | • • | • | | • |
| 69 | 1.427 | 7 | | | | • | | |
| 70 | 1.475 | 7 | | | • | | | |
| 71 | 1.681 | 7 | | • | • • • | | | |
| 72 | 1.773 | 7 | | | • • | | | |
| 73 | 0.337 | 6 | • | | | | | |
| 74 | 0.662 | 6 | | • | | | | |
| 75 | 0.880 | 6 | | | • | | | |
| 76 | 1.177 | 6 | | | • • • | | | • |
| 77 | 1.253 | 6 | • | • | | • | | |
| 78 | 1.681 | 6 | | | | | | • |
| 79 | 0.278 | 5 | | | | | | |
| 80 | 0.472 | 5 | • | • | | | | |
| 81 | 0.736 | 5 | | • | • | | | |
| 82 | 0.991 | 5 | • | • • | | | | |
| 83 | 1.057 | 5 | • • | • | | | | |
| 84 | 1.069 | 5 | | • | • | | | |
| 85 | 1.073 | 5 | | | • | | | |
| 86 | 1.085 | 5 | | | • | | | • |
| 87 | 1.195 | 5 | | | | | | |
| 88 | 1.407 | 5 | | | • • | | | • |
| 89 | 0.399 | 4 | | | | | | |
| 90 | 0.661 | 4 | • | • • | | | | |
| 91 | 0.730 | 4 | | • | | | | |
| 92 | 0.965 | 4 | | | | | | |
| 93 | 1.068 | 4 | • | | | • | | |
| 94 | 1.144 | 4 | | • | | • | | |
| 95 | 1.195 | 4 | • | | • | | | |
| 96 | 1.222 | 4 | | | | • | | |
| 97 | 1.326 | 4 | | | • | | | |
| 98 | 1.355 | 4 | | | | • | | • |
| 99 | 1.389 | 4 | | | • | | | • |
| 100 | 1.411 | 4 | | | | • | | • |
| 101 | 1.538 | 4 | | | • | | | |
| 102 | 0.316 | 3 | | | • | | | |
| 103 | 0.608 | 3 | | | • | | | |
| 104 | 0.662 | 3 | | | | | | |
| 105 | 0.747 | 3 | | | | | | |
| 106 | 0.754 | 3 | • | • • | | | | |
| 107 | 0.855 | 3 | | | | | | |
| 108 | 0.893 | 3 | | | | | | |
| 109 | 0.918 | 3 | | • | | | | |
| 110 | 0.967 | 3 | | | • • | | | • |
| 111 | 1.019 | 3 | | | | | • | |
| 112 | 1.025 | 3 | | | | | | |
| 113 | 1.041 | 3 | | | | • | | |
| 114 | 1.045 | 3 | | | | | | • |
| 115 | 1.050 | 3 | | | | | | |

Table E-3 (continued)

| | | CENSUS REGION | NORTH CENTRAL | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST NORTH CENTRAL | | | WEST NORTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurences In Samples [a] | | | | | | |
| 116 | 1.055 | 3 | | | | | | |
| 117 | 1.076 | 3 | | | | | | |
| 118 | 1.107 | 3 | | | | | | |
| 119 | 1.109 | 3 | | | | | | |
| 120 | 1.186 | 3 | | | | | | |
| 121 | 1.244 | 3 | | | | | | |
| 122 | 1.251 | 3 | | | | | | |
| 123 | 1.414 | 3 | | | | | | |
| 124 | 1.457 | 3 | | | | | | |
| 125 | 1.585 | 3 | | | | | | |
| 126 | 0.325 | 2 | | | | | | |
| 127 | 0.356 | 2 | | | | | | |
| 128 | 0.747 | 2 | | | | | | |
| 129 | 0.754 | 2 | | | | | | |
| 130 | 0.817 | 2 | | | | | | |
| 131 | 0.823 | 2 | | | | | | |
| 132 | 0.855 | 2 | | | | | | |
| 133 | 0.896 | 2 | | | | | | |
| 134 | 0.898 | 2 | | | | | | |
| 135 | 0.905 | 2 | | | | | | |
| 136 | 0.933 | 2 | | | | | | |
| 137 | 0.976 | 2 | | | | | | |
| 138 | 0.982 | 2 | | | | | | |
| 139 | 0.985 | 2 | | | | | | |
| 140 | 1.020 | 2 | | | | | | |
| 141 | 1.038 | 2 | | | | | | |
| 142 | 1.053 | 2 | | | | | | |
| 143 | 1.080 | 2 | | | | | | |
| 144 | 1.106 | 2 | | | | | | |
| 145 | 1.120 | 2 | | | | | | |
| 146 | 1.124 | 2 | | | | | | |
| 147 | 1.143 | 2 | | | | | | |
| 148 | 1.152 | 2 | | | | | | |
| 149 | 1.158 | 2 | | | | | | |
| 150 | 1.179 | 2 | | | | | | |
| 151 | 1.221 | 2 | | | | | | |
| 152 | 1.252 | 2 | | | | | | |
| 153 | 1.336 | 2 | | | | | | |
| 154 | 1.345 | 2 | | | | | | |
| 155 | 1.360 | 2 | | | | | | |
| 156 | 1.382 | 2 | | | | | | |
| 157 | 1.542 | 2 | | | | | | |
| 158 | 1.577 | 2 | | | | | | |
| 159 | 1.589 | 2 | | | | | | |
| 160 | 1.600 | 2 | | | | | | |
| 161 | 1.680 | 2 | | | | | | |
| 162 | 1.727 | 2 | | | | | | |
| 163 | 1.731 | 2 | | | | | | |
| 164 | 0.229 | 1 | | | | | | |
| 165 | 0.255 | 1 | | | | | | |
| 166 | 0.266 | 1 | | | | | | |
| 167 | 0.269 | 1 | | | | | | |
| 168 | 0.279 | 1 | | | | | | |
| 169 | 0.293 | 1 | | | | | | |
| 170 | 0.300 | 1 | | | | | | |
| 171 | 0.329 | 1 | | | | | | |
| 172 | 0.357 | 1 | | | | | | |
| 173 | 0.406 | 1 | | | | | | |

Table E-3 (continued)

| | | CENSUS REGION | NORTH CENTRAL | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST NORTH CENTRAL | | | WEST NORTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurences In Samples[a] | | | | | | |
| 174 | 0.406 | 1 | | | | | | |
| 175 | 0.463 | 1 | | | | | | |
| 176 | 0.499 | 1 | | | | | | |
| 177 | 0.539 | 1 | | | | | | |
| 178 | 0.575 | 1 | | | | | | |
| 179 | 0.672 | 1 | | | | | | |
| 180 | 0.676 | 1 | | | | | | |
| 181 | 0.708 | 1 | | | | | | |
| 182 | 0.724 | 1 | | | | | | |
| 183 | 0.732 | 1 | | | | | | |
| 184 | 0.732 | 1 | | | | | | |
| 185 | 0.734 | 1 | | | | | | |
| 186 | 0.742 | 1 | | | | | | |
| 187 | 0.743 | 1 | | | | | | |
| 188 | 0.747 | 1 | | | | | | |
| 189 | 0.749 | 1 | | | | | | |
| 190 | 0.799 | 1 | | | | | | |
| 191 | 0.829 | 1 | | | | | | |
| 192 | 0.830 | 1 | | | | | | |
| 193 | 0.855 | 1 | | | | | | |
| 194 | 0.892 | 1 | | | | | | |
| 195 | 0.911 | 1 | | | | | | |
| 196 | 0.914 | 1 | | | | | | |
| 197 | 0.973 | 1 | | | | | | |
| 198 | 1.011 | 1 | | | | | | |
| 199 | 1.018 | 1 | | | | | | |
| 200 | 1.035 | 1 | | | | | | |
| 201 | 1.051 | 1 | | | | | | |
| 202 | 1.053 | 1 | | | | | | |
| 203 | 1.060 | 1 | | | | | | |
| 204 | 1.064 | 1 | | | | | | |
| 205 | 1.075 | 1 | | | | | | |
| 206 | 1.078 | 1 | | | | | | |
| 207 | 1.084 | 1 | | | | | | |
| 208 | 1.107 | 1 | | | | | | |
| 209 | 1.117 | 1 | | | | | | |
| 210 | 1.117 | 1 | | | | | | |
| 211 | 1.118 | 1 | | | | | | |
| 212 | 1.121 | 1 | | | | | | |
| 213 | 1.122 | 1 | | | | | | |
| 214 | 1.134 | 1 | | | | | | |
| 215 | 1.134 | 1 | | | | | | |
| 216 | 1.138 | 1 | | | | | | |
| 217 | 1.140 | 1 | | | | | | |
| 218 | 1.140 | 1 | | | | | | |
| 219 | 1.152 | 1 | | | | | | |
| 220 | 1.161 | 1 | | | | | | |
| 221 | 1.170 | 1 | | | | | | |
| 222 | 1.189 | 1 | | | | | | |
| 223 | 1.208 | 1 | | | | | | |
| 224 | 1.217 | 1 | | | | | | |
| 225 | 1.226 | 1 | | | | | | |
| 226 | 1.262 | 1 | | | | | | |
| 227 | 1.288 | 1 | | | | | | |
| 228 | 1.289 | 1 | | | | | | |
| 229 | 1.304 | 1 | | | | | | |
| 230 | 1.348 | 1 | | | | | | |
| 231 | 1.349 | 1 | | | | | | |

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Table E-3 (concluded)

| | | CENSUS REGION | NORTH CENTRAL | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST NORTH CENTRAL | | | WEST NORTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurences In Samples [a] | | | | | | |
| 232 | 1.349 | 1 | | | | | | |
| 233 | 1.350 | 1 | | | | | | |
| 234 | 1.356 | 1 | | | | | | |
| 235 | 1.375 | 1 | | | | | | |
| 236 | 1.379 | 1 | | | | | | |
| 237 | 1.394 | 1 | | | | | | |
| 238 | 1.407 | 1 | | | | | | |
| 239 | 1.534 | 1 | | | | | | |
| 240 | 1.588 | 1 | | | | | | |
| 241 | 1.590 | 1 | | | | | | |
| 242 | 1.596 | 1 | | | | | | |
| 243 | 1.624 | 1 | | | | | | |
| 244 | 1.634 | 1 | | | | | | |
| 245 | 1.646 | 1 | | | | | | |
| 246 | 1.659 | 1 | | | | | | |
| 247 | 1.676 | 1 | | | | | | |
| 248 | 1.678 | 1 | | | | | | |
| 249 | 1.701 | 1 | | | | | | |
| 250 | 1.709 | 1 | | | | | | |
| 251 | 1.718 | 1 | | | | | | |
| 252 | 1.721 | 1 | | | | | | |
| 253 | 1.731 | 1 | | | | | | |
| 254 | 1.734 | 1 | | | | | | |
| 255 | 1.734 | 1 | | | | | | |
| 256 | 1.740 | 1 | | | | | | |
| 257 | 1.804 | 1 | | | | | | |
| 258 | 1.889 | 1 | | | | | | |

[a]Total number of occurrences from all sample analyses (four census regions and nine census divisions).

Table E-4. Unidentified Peaks in the 6% Florisil Semivolatile Organic Analysis Data Set - Northeast Census Region

| | | CENSUS REGION | NORTHEAST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MIDDLE ATLANTIC | | | NEW ENGLAND | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurences In Samples[a] | | | | | | |
| I.S. | 1.000 | 44 | • • | • • | • • | • | • | • |
| 1 | 0.924 | 42 | • • | • • | • • | • | • | • |
| 2 | 1.600 | 42 | • • | • | • • | • | | • |
| 3 | 0.759 | 38 | • • | • • | • • | • | • | • |
| 4 | 1.027 | 38 | • • | • • | • • | | • | • |
| 5 | 1.023 | 35 | • • | • | • • | | | • |
| 6 | 1.117 | 34 | • | • | | • | | |
| 7 | 1.706 | 34 | • • | • | • | | | • |
| 8 | 1.129 | 32 | | | | • | | |
| 9 | 0.879 | 31 | • | • | • • | | • | • |
| 10 | 0.702 | 30 | | • | • | | • | • |
| 11 | 0.919 | 30 | • • | • • | • | • | • | |
| 12 | 0.990 | 29 | • • | • | | | • | |
| 13 | 0.838 | 28 | • | • | • | • | | |
| 14 | 0.912 | 26 | • | • • | | • | | • |
| 15 | 1.481 | 26 | • | | | | | |
| 16 | 1.760 | 25 | | | • | | | • |
| 17 | 0.985 | 24 | • | • | • • | | | • |
| 18 | 1.059 | 24 | | | | | | • |
| 19 | 0.673 | 23 | • • | • • | | • | • | |
| 20 | 0.993 | 23 | • | • • | • • | | | • |
| 21 | 0.982 | 22 | • | • | | • | | |
| 22 | 1.533 | 22 | • | | | | | • |
| 23 | 1.063 | 21 | | • | • | | • | • |
| 24 | 1.199 | 21 | • | | • | | | • |
| 25 | 1.374 | 21 | • | | | • | | • |
| 26 | 0.726 | 19 | | • | • | | | • |
| 27 | 1.741 | 19 | | • | • | | | • |
| 28 | 0.952 | 17 | | | • • | | | |
| 29 | 1.237 | 17 | • | | | | | |
| 30 | 1.629 | 17 | | | • | • | | |
| 31 | 1.586 | 16 | | | • | | | |
| 32 | 0.493 | 15 | • • | • • | | • | | |
| 33 | 1.002 | 15 | | • | • | | | |
| 34 | 1.065 | 15 | • | • | | | | |
| 35 | 0.839 | 14 | | | • | | • | • |
| 36 | 1.070 | 14 | | | | • | | |
| 37 | 1.728 | 14 | | | • | | | |
| 38 | 0.574 | 13 | | | | | | |
| 39 | 0.665 | 13 | | | • • | | | |
| 40 | 1.178 | 13 | | | | | | |
| 41 | 1.280 | 13 | | | | | | • |
| 42 | 1.297 | 13 | | | | | | |
| 43 | 0.190 | 12 | • • | | | • | | |
| 44 | 0.666 | 12 | • • | • • | | | | |
| 45 | 0.310 | 11 | • | | • | | | |
| 46 | 0.603 | 11 | | • | | | | |
| 47 | 1.082 | 11 | | | | | | |
| 48 | 1.131 | 11 | • | | • | | | • |
| 49 | 1.146 | 11 | | | • | • | | |
| 50 | 0.411 | 10 | | | | | | • |
| 51 | 0.780 | 10 | | | | • | | |
| 52 | 1.009 | 10 | | | | | | |
| 53 | 1.160 | 10 | | | • | | | • |

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Table E-4 (continued)

| | | CENSUS REGION | NORTHEAST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MIDDLE ATLANTIC | | | NEW ENGLAND | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurences In Samples[a] | | | | | | |
| 54 | 1.219 | 10 | | | • | | | • |
| 55 | 1.224 | 9 | | | • • | | | |
| 56 | 0.220 | 8 | • • | | | • | | |
| 57 | 0.670 | 8 | | | | | | • |
| 58 | 0.959 | 8 | | | • | | | |
| 59 | 1.178 | 8 | | | | | | • |
| 60 | 1.197 | 8 | | | | • | | |
| 61 | 1.626 | 8 | | | • | | | |
| 62 | 1.638 | 8 | | | | | | |
| 63 | 0.360 | 7 | | | | | | |
| 64 | 0.674 | 7 | • | • | | • | • | |
| 65 | 0.897 | 7 | | | | | | |
| 66 | 0.932 | 7 | | | | • | | • |
| 67 | 1.051 | 7 | | | | | | • |
| 68 | 1.094 | 7 | | | • | | | |
| 69 | 1.427 | 7 | | • | | | | |
| 70 | 1.475 | 7 | • • | | • • | | | • |
| 71 | 1.681 | 7 | | | | | | • |
| 72 | 1.773 | 7 | | | • | | | • |
| 73 | 0.337 | 6 | | | | | | |
| 74 | 0.662 | 6 | | • | | | • | |
| 75 | 0.880 | 6 | | • | | | | |
| 76 | 1.177 | 6 | | | | | | |
| 77 | 1.253 | 6 | | | | | | |
| 78 | 1.681 | 6 | | | • | | | |
| 79 | 0.278 | 5 | • | | • | • | | |
| 80 | 0.472 | 5 | | | | | | |
| 81 | 0.736 | 5 | | | | | | |
| 82 | 0.991 | 5 | | | | | | |
| 83 | 1.057 | 5 | | | | | | |
| 84 | 1.069 | 5 | | | • • | | | |
| 85 | 1.073 | 5 | | | • | | | • |
| 86 | 1.085 | 5 | | | • | | | • |
| 87 | 1.195 | 5 | | | | | | |
| 88 | 1.407 | 5 | | | | | | |
| 89 | 0.399 | 4 | | • • | | • | • | |
| 90 | 0.661 | 4 | | | | | | |
| 91 | 0.730 | 4 | | | | | | |
| 92 | 0.965 | 4 | • | | | • | | • |
| 93 | 1.068 | 4 | | | | | | |
| 94 | 1.144 | 4 | | | | | | • |
| 95 | 1.195 | 4 | | | | | | |
| 96 | 1.222 | 4 | | | | | | |
| 97 | 1.326 | 4 | | | | | | • |
| 98 | 1.355 | 4 | | | | | | |
| 99 | 1.389 | 4 | | | | | | |
| 100 | 1.411 | 4 | | | | | | |
| 101 | 1.538 | 4 | | | | | | • |
| 102 | 0.316 | 3 | | | | | | • |
| 103 | 0.608 | 3 | | | | | | |
| 104 | 0.662 | 3 | | | | | | |
| 105 | 0.747 | 3 | | • | | | | • |
| 106 | 0.754 | 3 | | | | | | |
| 107 | 0.855 | 3 | | | | | | |

Table E-4 (continued)

| | | CENSUS REGION | NORTHEAST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MIDDLE ATLANTIC | | | NEW ENGLAND | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurences In Samples[a] | | | | | | |
| 108 | 0.893 | 3 | | | | | | |
| 109 | 0.918 | 3 | | | | | | |
| 110 | 0.967 | 3 | | | | | | |
| 111 | 1.019 | 3 | | • | | | • | |
| 112 | 1.025 | 3 | | • | | | | |
| 113 | 1.041 | 3 | • | | | | | • |
| 114 | 1.045 | 3 | | | | | | |
| 115 | 1.050 | 3 | • | | | | | |
| 116 | 1.055 | 3 | | | | | | |
| 117 | 1.076 | 3 | | | | | | |
| 118 | 1.107 | 3 | • | • | | | • | |
| 119 | 1.109 | 3 | | | | | | |
| 120 | 1.186 | 3 | | | • | | | |
| 121 | 1.244 | 3 | | | | | | |
| 122 | 1.251 | 3 | | | | | | |
| 123 | 1.414 | 3 | | | | • | | |
| 124 | 1.457 | 3 | | | | | | |
| 125 | 1.585 | 3 | | | | | | |
| 126 | 0.325 | 2 | | | | | | |
| 127 | 0.356 | 2 | • | | • | | | • |
| 128 | 0.747 | 2 | | • | | | | • |
| 129 | 0.754 | 2 | | | | | | |
| 130 | 0.817 | 2 | | | | | | |
| 131 | 0.823 | 2 | | • | | | | • |
| 132 | 0.855 | 2 | | | | | | |
| 133 | 0.896 | 2 | | • | | | | |
| 134 | 0.898 | 2 | | • | | | | • |
| 135 | 0.905 | 2 | | • | | | | • |
| 136 | 0.933 | 2 | | | | | | |
| 137 | 0.976 | 2 | | | | | | |
| 138 | 0.982 | 2 | | | | | | |
| 139 | 0.985 | 2 | | | | | | |
| 140 | 1.020 | 2 | | | | | | |
| 141 | 1.038 | 2 | | | | | | |
| 142 | 1.053 | 2 | | | | | | |
| 143 | 1.080 | 2 | | | | | | |
| 144 | 1.106 | 2 | | | • | | | |
| 145 | 1.120 | 2 | • | | | | • | |
| 146 | 1.124 | 2 | | | | | | |
| 147 | 1.143 | 2 | | | | | | |
| 148 | 1.152 | 2 | | | | | | |
| 149 | 1.158 | 2 | • | | | | | |
| 150 | 1.179 | 2 | • | | | | | |
| 151 | 1.221 | 2 | | | | | | |
| 152 | 1.252 | 2 | | | | | | |
| 153 | 1.336 | 2 | | | | | | |
| 154 | 1.345 | 2 | | | | | | |
| 155 | 1.360 | 2 | | | • | | | |
| 156 | 1.382 | 2 | | | | | | |
| 157 | 1.542 | 2 | | | | | | |
| 158 | 1.577 | 2 | | | | | | |
| 159 | 1.589 | 2 | • | | | | | |
| 160 | 1.600 | 2 | | • | | | | |
| 161 | 1.680 | 2 | | | | | | |

Table E-4 (continued)

| | | CENSUS REGION | NORTHEAST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MIDDLE ATLANTIC | | | NEW ENGLAND | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurences In Samples [a] | | | | | | |
| 162 | 1.727 | 2 | | | | | | • |
| 163 | 1.731 | 2 | | | | | | |
| 164 | 0.229 | 1 | | | | • | | |
| 165 | 0.255 | 1 | | | | • | | |
| 166 | 0.266 | 1 | | | | • | | |
| 167 | 0.269 | 1 | | | | | | |
| 168 | 0.279 | 1 | | | | | | |
| 169 | 0.293 | 1 | | | | | | |
| 170 | 0.300 | 1 | | | | | | • |
| 171 | 0.329 | 1 | | | | | | |
| 172 | 0.357 | 1 | | | | | | |
| 173 | 0.406 | 1 | | | | | | |
| 174 | 0.406 | 1 | | | | | | |
| 175 | 0.463 | 1 | | | | | | • |
| 176 | 0.499 | 1 | | | | | | |
| 177 | 0.539 | 1 | | | | | | |
| 178 | 0.575 | 1 | • | | | | | |
| 179 | 0.672 | 1 | | | | | | |
| 180 | 0.676 | 1 | | | | | | |
| 181 | 0.708 | 1 | | | | | | |
| 182 | 0.724 | 1 | | | | | | |
| 183 | 0.732 | 1 | | | | | | |
| 184 | 0.732 | 1 | | | | | | |
| 185 | 0.734 | 1 | | | • | | | |
| 186 | 0.742 | 1 | | | | | | |
| 187 | 0.743 | 1 | | | | | | |
| 188 | 0.747 | 1 | | | | | | |
| 189 | 0.749 | 1 | | | | | | |
| 190 | 0.799 | 1 | | | | | | |
| 191 | 0.829 | 1 | | | | | | • |
| 192 | 0.830 | 1 | | | | | | |
| 193 | 0.855 | 1 | | | | | | |
| 194 | 0.892 | 1 | | | | | | • |
| 195 | 0.911 | 1 | | | | • | | |
| 196 | 0.914 | 1 | | | | | | |
| 197 | 0.973 | 1 | | | | | | |
| 198 | 1.011 | 1 | | | | | | |
| 199 | 1.018 | 1 | | | | | | |
| 200 | 1.035 | 1 | | | | | | |
| 201 | 1.051 | 1 | | | | | | |
| 202 | 1.053 | 1 | • | | | | | |
| 203 | 1.060 | 1 | | | | | | |
| 204 | 1.064 | 1 | • | | | | | |
| 205 | 1.075 | 1 | | | | | | |
| 206 | 1.078 | 1 | | | | | | |
| 207 | 1.084 | 1 | | | | | | |
| 208 | 1.107 | 1 | | | | | | |
| 209 | 1.117 | 1 | | | • | | | |
| 210 | 1.117 | 1 | | | | | | |
| 211 | 1.118 | 1 | | | | | | |
| 212 | 1.121 | 1 | | | | | | |
| 213 | 1.122 | 1 | | | | | | |
| 214 | 1.134 | 1 | | | | | | |
| 215 | 1.134 | 1 | • | | | | | |

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Table E-4 (concluded)

| CENSUS REGION | | | NORTHEAST | | | | | |
|---|---|---|---|---|---|---|---|---|
| CENSUS DIVISION | | | MIDDLE ATLANTIC | | | NEW ENGLAND | | |
| AGE GROUP | | | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurences In Samples[a] | | | | | | |
| 216 | 1.138 | 1 | | | | | | |
| 217 | 1.140 | 1 | | | | | | |
| 218 | 1.140 | 1 | | | | | | |
| 219 | 1.152 | 1 | | | | | | |
| 220 | 1.161 | 1 | • | | | | | |
| 221 | 1.170 | 1 | | | | | | |
| 222 | 1.189 | 1 | | | | | | |
| 223 | 1.208 | 1 | • | | | | | |
| 224 | 1.217 | 1 | | | | | | |
| 225 | 1.226 | 1 | | | | | • | |
| 226 | 1.262 | 1 | | | | | | |
| 227 | 1.288 | 1 | | | | | | |
| 228 | 1.289 | 1 | | | | | | |
| 229 | 1.304 | 1 | | | • | | | |
| 230 | 1.348 | 1 | | | | | | |
| 231 | 1.349 | 1 | | | | | | |
| 232 | 1.349 | 1 | | | | | | |
| 233 | 1.350 | 1 | | | | | | |
| 234 | 1.356 | 1 | | | | | | |
| 235 | 1.375 | 1 | | | | | | |
| 236 | 1.379 | 1 | | | | | | |
| 237 | 1.394 | 1 | | | | | | |
| 238 | 1.407 | 1 | | | | | | |
| 239 | 1.534 | 1 | | | | | | |
| 240 | 1.588 | 1 | | | | | | |
| 241 | 1.590 | 1 | | | | | | • |
| 242 | 1.596 | 1 | | | | | | |
| 243 | 1.624 | 1 | | | | | | |
| 244 | 1.634 | 1 | | | | | | |
| 245 | 1.646 | 1 | | | | | | |
| 246 | 1.659 | 1 | | | | | | |
| 247 | 1.676 | 1 | | | • | | | |
| 248 | 1.678 | 1 | | | | | | • |
| 249 | 1.701 | 1 | | | | | | |
| 250 | 1.709 | 1 | | | | | | |
| 251 | 1.718 | 1 | | | | | | • |
| 252 | 1.721 | 1 | | | | | | |
| 253 | 1.731 | 1 | | | | | | |
| 254 | 1.734 | 1 | • | | | | | |
| 255 | 1.734 | 1 | • | | | | | |
| 256 | 1.740 | 1 | | | | | | |
| 257 | 1.804 | 1 | | | | | | |
| 258 | 1.889 | 1 | | | | | | |

[a]Total number of occurrences from all sample analyses (four census regions and nine census divisions).

APPENDIX F

DOT MATRIX TABLE FOR UNIDENTIFIED HRGC/MS PEAKS IN THE 15/50% FLORISIL SEMIVOLATILE ORGANIC ANALYSIS DATA SET; UNIDENTIFIED SEMIVOLATILE ORGANIC COMPOUND RESPONSES VS. CENSUS REGION, CENSUS DIVISION, AND AGE GROUP

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Table F-1. Unidentified Peaks in the 15/50% Florisil Semivolatile Organic Analysis Data Set - West Census Region

| | | CENSUS REGION | WEST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MOUNTAIN | | | PACIFIC | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples [a] | | | | | | |
| I.S. | 1.000 | 46 | • | • | • | • | • | • |
| 1 | 1.920 | 44 | • | • | • | • | • | |
| 2 | 0.419 | 42 | • | | • | • | • | • |
| 3 | 1.052 | 41 | • | • | • | • | • | |
| 4 | 1.007 | 40 | • | • | • | • | • | |
| 5 | 0.452 | 38 | • | • | • | • | • | • |
| 6 | 1.616 | 38 | | • | • | | • | |
| 7 | 0.402 | 37 | • | • | • | • | • | • |
| 8 | 0.633 | 35 | • | • | | • | • | |
| 9 | 1.742 | 35 | | • | • | | | |
| 10 | 0.449 | 34 | • | • | • | • | • | • |
| 11 | 1.569 | 34 | • | • | | | • | |
| 12 | 2.034 | 34 | • | • | • | • | • | |
| 13 | 1.692 | 33 | | • | • | | | |
| 14 | 1.682 | 32 | | | • | | | |
| 15 | 1.710 | 32 | | • | • | | | |
| 16 | 0.437 | 29 | • | • | • | • | • | • |
| 17 | 0.606 | 29 | • | • | | • | • | • |
| 18 | 1.238 | 29 | | | | • | • | |
| 19 | 1.657 | 28 | | • | • | | | |
| 20 | 1.187 | 28 | | • | • | | | |
| 21 | 1.453 | 28 | | • | • | | | |
| 22 | 0.839 | 27 | | | | • | • | |
| 23 | 1.665 | 27 | | | • | | | |
| 24 | 0.647 | 26 | • | • | | | • | |
| 25 | 1.128 | 26 | | | | | • | |
| 26 | 2.059 | 26 | | • | • | | | |
| 27 | 1.953 | 25 | | • | • | | | |
| 28 | 1.440 | 25 | | | • | | | |
| 29 | 1.490 | 24 | | • | • | | | |
| 30 | 1.722 | 23 | | • | • | | | |
| 31 | 1.430 | 22 | | | • | | | |
| 32 | 0.932 | 21 | • | | | | | |
| 33 | 1.115 | 21 | | | | | • | |
| 34 | 1.223 | 21 | • | • | | • | | |
| 35 | 2.009 | 20 | | • | • | | | |
| 36 | 0.589 | 20 | • | • | | • | • | • |
| 37 | 1.147 | 20 | | | | • | • | |
| 38 | 1.567 | 20 | | • | • | | | |
| 39 | 1.235 | 19 | | | | • | | |
| 40 | 1.178 | 18 | | | • | | | |
| 41 | 0.555 | 18 | • | • | | | | |
| 42 | 0.990 | 17 | | | | | | |
| 43 | 1.319 | 17 | | | • | | | |
| 44 | 1.629 | 16 | | • | | | | |
| 45 | 0.876 | 16 | • | • | | | | |
| 46 | 0.680 | 15 | • | • | • | | | |
| 47 | 0.912 | 15 | • | | | | | |
| 48 | 1.086 | 15 | • | • | | • | | |
| 49 | 1.089 | 15 | | | • | | | |
| 50 | 1.556 | 15 | | • | • | | | |
| 51 | 1.980 | 15 | | | • | | | |
| 52 | 1.929 | 14 | | • | • | | | |
| 53 | 0.982 | 14 | | | | | | |
| 54 | 1.809 | 14 | | • | | | | |
| 55 | 1.027 | 13 | | • | | | | |
| 56 | 1.210 | 13 | | • | | | | |
| 57 | 1.500 | 13 | | | • | | | |

Table F-1 (continued)

| | | CENSUS REGION | WEST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MOUNTAIN | | | PACIFIC | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples[a] | | | | | | |
| 58 | 1.950 | 13 | | | • | | | |
| 59 | 0.586 | 12 | | | • | | | |
| 60 | 0.858 | 12 | | | | | | |
| 61 | 1.511 | 12 | | | • | | | |
| 62 | 1.961 | 12 | | • | | | | |
| 63 | 2.014 | 12 | | • | • | | | |
| 64 | 2.088 | 12 | | | • | | | |
| 65 | 0.996 | 11 | | | • | | | |
| 66 | 1.027 | 11 | | | • | | | |
| 67 | 0.218 | 11 | • | | | • | | |
| 68 | 0.398 | 11 | | | | | | |
| 69 | 1.475 | 11 | | | | | | |
| 70 | 1.522 | 11 | | • | • | | | |
| 71 | 1.542 | 11 | | | • | | | |
| 72 | 1.980 | 11 | | • | | | | |
| 73 | 0.745 | 10 | | | | | | |
| 74 | 0.904 | 10 | • | | | | | |
| 75 | 1.105 | 10 | | | • | | | |
| 76 | 1.359 | 10 | | | | | | |
| 77 | 0.429 | 9 | | | | | • | |
| 78 | 0.673 | 9 | | | | | | |
| 79 | 0.897 | 9 | • | | | | | |
| 80 | 1.548 | 9 | | | • | | | |
| 81 | 1.989 | 9 | | | | | | |
| 82 | 0.226 | 8 | • | | | • | | |
| 83 | 0.243 | 8 | • | | | • | | |
| 84 | 0.989 | 8 | | | | | • | |
| 85 | 1.149 | 8 | | | | | | |
| 86 | 1.351 | 8 | | • | | | | |
| 87 | 1.973 | 8 | | | | | | |
| 88 | 2.151 | 8 | | | • | | | |
| 89 | 2.174 | 8 | | | | | | |
| 90 | 0.301 | 7 | • | | | • | • | |
| 91 | 0.392 | 7 | | | | | • | |
| 92 | 0.520 | 7 | | • | | | | |
| 93 | 0.672 | 7 | • | | | | | |
| 94 | 1.198 | 7 | | | | | | |
| 95 | 1.675 | 7 | | • | | | | |
| 96 | 1.889 | 7 | | | • | | | |
| 97 | 0.492 | 6 | | | | | • | |
| 98 | 0.758 | 6 | | | | | | |
| 99 | 1.175 | 6 | | | | | | |
| 100 | 1.202 | 6 | | • | | | | |
| 101 | 1.308 | 6 | | | | | | |
| 102 | 1.472 | 6 | | • | • | | | |
| 103 | 1.531 | 6 | | | | | | |
| 104 | 1.966 | 6 | | | | | | |
| 105 | 2.137 | 6 | | | • | | | |
| 106 | 1.531 | 5 | | • | | | | |
| 107 | 0.374 | 5 | | • | | | | |
| 108 | 0.450 | 5 | | | | | | |
| 109 | 0.540 | 5 | | | | | | |
| 110 | 0.547 | 5 | | | | | | |
| 111 | 0.559 | 5 | | | | | | |
| 112 | 0.573 | 5 | • | | | | | |
| 113 | 0.762 | 5 | | | | | | |
| 114 | 0.918 | 5 | | | | | | |
| 115 | 1.062 | 5 | | | • | | | |

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Table F-1 (continued)

| | | CENSUS REGION | WEST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MOUNTAIN | | | PACIFIC | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples [a] | | | | | | |
| 116 | 1.070 | 5 | | • | | | | |
| 117 | 1.105 | 5 | | | | | | |
| 118 | 1.138 | 5 | | | | | | |
| 119 | 1.175 | 5 | | | | | | |
| 120 | 1.288 | 5 | | | • | | | |
| 121 | 1.460 | 5 | | | • | | | |
| 122 | 1.716 | 5 | | | | | | |
| 123 | 1.729 | 5 | | | | | | |
| 124 | 0.475 | 4 | • | | | | | |
| 125 | 0.507 | 4 | | | | | | |
| 126 | 0.520 | 4 | | | • | | | |
| 127 | 0.667 | 4 | | | | | | |
| 128 | 0.721 | 4 | | | | | | |
| 129 | 0.832 | 4 | | | | | | |
| 130 | 0.936 | 4 | • | | | | | |
| 131 | 1.061 | 4 | | | | | | |
| 132 | 1.109 | 4 | | • | | | | |
| 133 | 1.153 | 4 | | | | | | |
| 134 | 1.173 | 4 | | | | | | |
| 135 | 1.277 | 4 | | | | | | |
| 136 | 1.328 | 4 | | | | | | |
| 137 | 1.580 | 4 | | | • | | | |
| 138 | 1.927 | 4 | | | | • | | |
| 139 | 1.979 | 4 | | | • | | | |
| 140 | 2.000 | 4 | | | | | | |
| 141 | 0.319 | 3 | | | | | | |
| 142 | 0.375 | 3 | | | | | | • |
| 143 | 0.609 | 3 | | | | | | |
| 144 | 0.307 | 3 | | | | • | | |
| 145 | 0.346 | 3 | | | | | | |
| 146 | 0.353 | 3 | • | • | | | | |
| 147 | 0.487 | 3 | | | | | | • |
| 148 | 0.727 | 3 | | | | | | |
| 149 | 0.739 | 3 | • | | | | | |
| 150 | 0.790 | 3 | | • | | | | |
| 151 | 0.821 | 3 | | | | | | |
| 152 | 0.828 | 3 | | | | | | |
| 153 | 1.083 | 3 | | | | | | |
| 154 | 1.119 | 3 | | | | | | |
| 155 | 1.123 | 3 | | | | | | |
| 156 | 1.195 | 3 | | | | | | |
| 157 | 1.309 | 3 | | • | | | | |
| 158 | 1.404 | 3 | | | | | | |
| 159 | 1.448 | 3 | | | | | | |
| 160 | 1.538 | 3 | | | | | | |
| 161 | 1.856 | 3 | | | | | | |
| 162 | 1.953 | 3 | | | | | | |
| 163 | 2.084 | 3 | | | | | | |
| 164 | 2.091 | 3 | | | | | | |
| 165 | 0.512 | 2 | | | | | | |
| 166 | 0.572 | 2 | | | | | | |
| 167 | 1.809 | 2 | | | | | | |
| 168 | 1.900 | 2 | | | | | | |
| 169 | 0.237 | 2 | | | | | | |
| 170 | 0.261 | 2 | | | | | | |
| 171 | 0.337 | 2 | | | | | | |
| 172 | 0.341 | 2 | | | | | | |
| 173 | 0.342 | 2 | | | | | | |

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Table F-1 (continued)

| | | CENSUS REGION | WEST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MOUNTAIN | | | PACIFIC | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples[a] | | | | | | |
| 174 | 0.382 | 2 | | | | | | |
| 175 | 0.413 | 2 | | | | | | |
| 176 | 0.435 | 2 | | | | | | |
| 177 | 0.450 | 2 | | | | | | |
| 178 | 0.489 | 2 | | | | | | |
| 179 | 0.496 | 2 | | | | | | |
| 180 | 0.552 | 2 | | | | | | |
| 181 | 0.599 | 2 | | | | | | |
| 182 | 0.614 | 2 | | | | | | |
| 183 | 0.677 | 2 | | | | | | |
| 184 | 0.758 | 2 | | | | | | |
| 185 | 0.791 | 2 | | | | | | |
| 186 | 0.908 | 2 | | | | | | |
| 187 | 0.921 | 2 | | | | | | |
| 188 | 0.957 | 2 | | | | | | |
| 189 | 1.059 | 2 | | | | | | |
| 190 | 1.261 | 2 | | | | | | |
| 191 | 1.283 | 2 | | | | | | |
| 192 | 1.291 | 2 | | | | | | |
| 193 | 1.297 | 2 | | | | | | |
| 194 | 1.353 | 2 | | | | | | |
| 195 | 1.463 | 2 | | | | | | |
| 196 | 1.507 | 2 | | | | | | |
| 197 | 1.516 | 2 | | | | | | |
| 198 | 1.525 | 2 | | | | | | |
| 199 | 1.586 | 2 | | | | | | |
| 200 | 1.594 | 2 | | | | | | |
| 201 | 1.673 | 2 | | | | | | |
| 202 | 1.866 | 2 | | | | | | |
| 203 | 1.931 | 2 | | | | | | |
| 204 | 2.030 | 2 | | | | | | |
| 205 | 2.102 | 2 | | | | | | |
| 206 | 0.333 | 1 | | | | | | |
| 207 | 0.544 | 1 | | | | | | |
| 208 | 0.199 | 1 | | | | | | |
| 209 | 0.203 | 1 | | | | | | |
| 210 | 0.216 | 1 | | | | | | |
| 211 | 0.221 | 1 | | | | | | |
| 212 | 0.239 | 1 | | | | | | |
| 213 | 0.240 | 1 | | | | | | |
| 214 | 0.241 | 1 | | | | | | |
| 215 | 0.254 | 1 | | | | | | |
| 216 | 0.266 | 1 | | | | | | |
| 217 | 0.268 | 1 | | | | | | |
| 218 | 0.283 | 1 | | | | | | |
| 219 | 0.285 | 1 | | | | | | |
| 220 | 0.293 | 1 | | | | | | |
| 221 | 0.300 | 1 | | | | | | |
| 222 | 0.327 | 1 | | | | | | |
| 223 | 0.344 | 1 | | | | | | |
| 224 | 0.352 | 1 | | | | | | |
| 225 | 0.353 | 1 | | | | | | |
| 226 | 0.358 | 1 | | | | | | |
| 227 | 0.359 | 1 | | | | | | |
| 228 | 0.362 | 1 | | | | | | |
| 229 | 0.365 | 1 | | | | | | |
| 230 | 0.370 | 1 | | | | | | |
| 231 | 0.371 | 1 | | | | | | |

Table F-1 (continued)

| | | CENSUS REGION | WEST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MOUNTAIN | | | PACIFIC | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples[a] | | | | | | |
| 232 | 0.372 | 1 | | | | | | |
| 233 | 0.394 | 1 | | | | | | |
| 234 | 0.405 | 1 | | | | | | |
| 235 | 0.414 | 1 | | | | | | |
| 236 | 0.419 | 1 | | | | | | |
| 237 | 0.421 | 1 | | | | | | |
| 238 | 0.422 | 1 | | | | | | |
| 239 | 0.455 | 1 | | | | | | |
| 240 | 0.463 | 1 | | | | | | |
| 241 | 0.465 | 1 | | | | | | |
| 242 | 0.504 | 1 | | | | | | |
| 243 | 0.507 | 1 | | | | | | |
| 244 | 0.510 | 1 | | | | | | |
| 245 | 0.516 | 1 | | | | | | |
| 246 | 0.545 | 1 | | | | | | |
| 247 | 0.575 | 1 | | | | | | |
| 248 | 0.584 | 1 | | | | | | |
| 249 | 0.652 | 1 | | | | | | |
| 250 | 0.653 | 1 | | | | | | |
| 251 | 0.678 | 1 | | | | | | |
| 252 | 0.683 | 1 | | | | | | |
| 253 | 0.711 | 1 | | | | | | |
| 254 | 0.744 | 1 | | | | | | |
| 255 | 0.745 | 1 | | | | | | |
| 256 | 0.767 | 1 | | | | | | |
| 257 | 0.771 | 1 | | | | | | |
| 258 | 0.775 | 1 | | | | | | |
| 259 | 0.779 | 1 | | | | | | |
| 260 | 0.786 | 1 | | | | | | |
| 261 | 0.787 | 1 | | | | | | |
| 262 | 0.821 | 1 | | | | | | |
| 263 | 0.915 | 1 | | | | | | |
| 264 | 0.929 | 1 | | | | | | |
| 265 | 0.945 | 1 | | | | | | |
| 266 | 0.960 | 1 | | | | | | |
| 267 | 0.968 | 1 | | | | | | |
| 268 | 1.017 | 1 | | | | | | |
| 269 | 1.018 | 1 | | | | | | |
| 270 | 1.037 | 1 | | | | | | |
| 271 | 1.046 | 1 | | | | | | |
| 272 | 1.061 | 1 | | | | | | |
| 273 | 1.063 | 1 | | | | | | |
| 274 | 1.070 | 1 | | | | | | |
| 275 | 1.089 | 1 | | | | | | |
| 276 | 1.091 | 1 | | | | | | |
| 277 | 1.112 | 1 | | | | | | |
| 278 | 1.121 | 1 | | | | | | |
| 279 | 1.140 | 1 | | | | | | |
| 280 | 1.174 | 1 | | | | | | |
| 281 | 1.180 | 1 | | | | | | |
| 282 | 1.197 | 1 | | | | | | |
| 283 | 1.204 | 1 | | | | | | |
| 284 | 1.204 | 1 | | | | | | |
| 285 | 1.218 | 1 | | | | | | |
| 286 | 1.223 | 1 | | | | | | |
| 287 | 1.226 | 1 | | | | | | |
| 288 | 1.243 | 1 | | | | | | |
| 289 | 1.248 | 1 | | | | | | |

Table F-1 (concluded)

| | | CENSUS REGION | WEST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MOUNTAIN | | | PACIFIC | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples[a] | | | | | | |
| 290 | 1.289 | 1 | | | | | | |
| 291 | 1.291 | 1 | | | | | | |
| 292 | 1.296 | 1 | | | | | | |
| 293 | 1.309 | 1 | | | | | | |
| 294 | 1.311 | 1 | | | | | | |
| 295 | 1.335 | 1 | | | | | | |
| 296 | 1.342 | 1 | | | | | | |
| 297 | 1.346 | 1 | | | | | | |
| 298 | 1.348 | 1 | | | | | | |
| 299 | 1.350 | 1 | | | | | | |
| 300 | 1.363 | 1 | | | | | | |
| 301 | 1.366 | 1 | | | | | | |
| 302 | 1.377 | 1 | | | | | | |
| 303 | 1.384 | 1 | | | | | | |
| 304 | 1.386 | 1 | | | | | | |
| 305 | 1.390 | 1 | | | | | | |
| 306 | 1.403 | 1 | | | | | | |
| 307 | 1.421 | 1 | | | | | | |
| 308 | 1.422 | 1 | | | | | | |
| 309 | 1.427 | 1 | | | | | | |
| 310 | 1.433 | 1 | | | | | | |
| 311 | 1.435 | 1 | | | | | | |
| 312 | 1.457 | 1 | | | | | | |
| 313 | 1.481 | 1 | | | | | | |
| 314 | 1.492 | 1 | | | | | | |
| 315 | 1.495 | 1 | | | | | | |
| 316 | 1.499 | 1 | | | | | | |
| 317 | 1.523 | 1 | | | | | | |
| 318 | 1.525 | 1 | | | | | | |
| 319 | 1.531 | 1 | | | | | | |
| 320 | 1.545 | 1 | | | | | | |
| 321 | 1.562 | 1 | | | | | | |
| 322 | 1.583 | 1 | | | | | | |
| 323 | 1.584 | 1 | | | | | | |
| 324 | 1.589 | 1 | | | | | | |
| 325 | 1.596 | 1 | | | | | | |
| 326 | 1.602 | 1 | | | | | | |
| 327 | 1.606 | 1 | | | | | | |
| 328 | 1.607 | 1 | | | | | | |
| 329 | 1.671 | 1 | | | | | | |
| 330 | 1.695 | 1 | | | | | | |
| 331 | 1.740 | 1 | | | | | | |
| 332 | 1.761 | 1 | | | | | | |
| 333 | 1.762 | 1 | | | | | | |
| 334 | 1.776 | 1 | | | | | | |
| 335 | 1.839 | 1 | | | | | | |
| 336 | 1.907 | 1 | | | | | | |
| 337 | 1.964 | 1 | | | | | | |
| 338 | 1.973 | 1 | | | | | | |
| 339 | 1.980 | 1 | | | | | | |
| 340 | 1.991 | 1 | | | | | | |
| 341 | 2.053 | 1 | | | | | | |
| 342 | 2.063 | 1 | | | | | | |
| 343 | 2.107 | 1 | | | | | | |

[a]Total number of occurrences from all sample analyses (four census regions and nine census divisions).

Table F-2. Unidentified Peaks in the 15/50% Florisil Semivolatile Organic Analysis Data Set - South Central Region

| | | CENSUS REGION | SOUTH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST SOUTH CENTRAL | | | SOUTH ATLANTIC | | | WEST SOUTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples a | | | | | | | | | |
| I.S. | 1.000 | 46 | • | • • | • • | • • | • • • • | • • • • | • | • • | • |
| 1 | 1.920 | 44 | • | • • | • | • • | • • • • | • • • • | • | • • | • |
| 2 | 0.419 | 42 | • | • • | • | • • | • • • • | • • • | • | • • | • |
| 3 | 1.052 | 41 | • | • • | • • | • • | • • • • | • • • | • | • • | • |
| 4 | 1.007 | 40 | • | • • | • | • • | • • • • | • • • • | • | • • | • |
| 5 | 0.452 | 38 | • | • | • | • • | • • • | • • • | • | • • | • |
| 6 | 1.616 | 38 | • | • | • • | • • | • • • • | • • • • | | • • | • |
| 7 | 0.402 | 37 | • | • | • | • | • • • | • • • | • | • • | • |
| 8 | 0.633 | 35 | • | • | • | • • | • • • • | • • • | • | | |
| 9 | 1.742 | 35 | • | • | • • | • • | • • • • | • • • | | • • | • |
| 10 | 0.449 | 34 | • | • | • | • • | • • | • • | • | • | • |
| 11 | 1.569 | 34 | • | • | • • | • • | • • • • | • • | • | • | • |
| 12 | 2.034 | 34 | • | • | • | • • | • • • | • • | • | • • | • |
| 13 | 1.692 | 33 | • | • | • • | • • | • • • • | • • • | | • • | • |
| 14 | 1.682 | 32 | • | • | • | • • | • • • • | • • • • | | • | |
| 15 | 1.710 | 32 | • | • | • • | • • | • • • • | • • • | | • • | • |
| 16 | 0.437 | 29 | • | • | • | • | • | • • • | • | | • |
| 17 | 0.606 | 29 | | • | • | • • | • • • • | • • • | | | |
| 18 | 1.238 | 29 | | | • | | • • • • | • • • • | • | • • | • |
| 19 | 1.657 | 28 | • | • | • | • | • | • • | • | • | • |
| 20 | 1.187 | 28 | • | • | • • | • • | • • • • | • • • | | | • |
| 21 | 1.453 | 28 | • | • | • | • | • • • | • • • | | • | |
| 22 | 0.839 | 27 | | | | • • | • • • | • • • | • | • • | • |
| 23 | 1.665 | 27 | • | • • | • | • | • • | • • • | | • • | • |
| 24 | 0.647 | 26 | | • | • • | • • | • • • • | • • • | | | |
| 25 | 1.128 | 26 | | • | • | | • • • • | • • • • | • | • • | • |
| 26 | 2.059 | 26 | • | • | • | • • | • • | • • • | | • • | • |
| 27 | 1.953 | 25 | • | • | • | • • | • • | • • | • | • • | • |
| 28 | 1.440 | 25 | • | • | • | • | • • • | • • • | | • • | • |
| 29 | 1.490 | 24 | • | • | • | • | • • | • • • | | • • | |
| 30 | 1.722 | 23 | • | • | • | • | • | • | | • • | • |
| 31 | 1.430 | 22 | • | • | • | • | • • | • • | | • • | • |
| 32 | 0.932 | 21 | | • | • • | • | • • • | • • • | • | | • |
| 33 | 1.115 | 21 | | • | | | • • • | • • • • | | • • | • |
| 34 | 1.223 | 21 | • | | • | • | • • • | • • | • | | |
| 35 | 2.009 | 20 | • | • | • | • | • | • | • | • • | • |
| 36 | 0.589 | 20 | | | | • | • • | • • | | | |
| 37 | 1.147 | 20 | • | • | • • | | • • • | • • • • | | • | • |
| 38 | 1.567 | 20 | • | • | • | • | • • | • | | • • | |
| 39 | 1.235 | 19 | • | | | • | • • • | • • • | | • • | • |
| 40 | 1.178 | 18 | • | • | • | | • | • • | • | • | • |
| 41 | 0.555 | 18 | | • | | • • | • • • | • • | | | |
| 42 | 0.990 | 17 | | | | | • • • | • • • | • | • • | |
| 43 | 1.319 | 17 | • | • | • | • | • | • • | | • | |
| 44 | 1.629 | 16 | | | • | | • • • | • • | | | • |
| 45 | 0.876 | 16 | | | | • • | • • • | • • • | | • | |
| 46 | 0.680 | 15 | | | | • • | • • • | • • | | | |
| 47 | 0.912 | 15 | | | | • • | • • | • • | | • | • |
| 48 | 1.086 | 15 | • | | | • • | • | • | • | | |
| 49 | 1.089 | 15 | | | • • | | • • | • | | | • |
| 50 | 1.556 | 15 | • | • | • | • | | | | • | |
| 51 | 1.980 | 15 | • | • | • | • | • | • | | • • | |
| 52 | 1.929 | 14 | | • | | | • • | • • | • | • | • |
| 53 | 0.982 | 14 | | | | | • • | • • | | • • | • |
| 54 | 1.809 | 14 | | • | • | • • | • | • | | • | • |
| 55 | 1.027 | 13 | | | • | | • • | • • | | | • |
| 56 | 1.210 | 13 | | | • | | | • • | • | | |
| 57 | 1.500 | 13 | • | | • | | • | • | | • | |

## Table F-2 (continued)

| | | CENSUS REGION | SOUTH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST SOUTH CENTRAL | | | SOUTH ATLANTIC | | | WEST SOUTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples a | | | | | | | | | |
| 58 | 1.950 | 13 | | | • | | • | • • | | • • | |
| 59 | 0.586 | 12 | • | | • | • | • | | • | • | • |
| 60 | 0.858 | 12 | • | | • | • | | • | | | |
| 61 | 1.511 | 12 | • | • | • | | | | | • | |
| 62 | 1.961 | 12 | | • | | | • • | • • | | | |
| 63 | 2.014 | 12 | • | • | • | • | | • | | | • |
| 64 | 2.088 | 12 | | | • | • | | • | | • | • |
| 65 | 0.996 | 11 | • | • | • | | | | • | • | |
| 66 | 1.027 | 11 | • | • | | | | | • | • • | |
| 67 | 0.218 | 11 | • | | | • • | | | • | | |
| 68 | 0.398 | 11 | | • | | • | • • | • • | | | |
| 69 | 1.475 | 11 | | • | • | • | | • | | | |
| 70 | 1.522 | 11 | • | • | | • | | | | • | |
| 71 | 1.542 | 11 | • | • | • | • | | • | | | • |
| 72 | 1.980 | 11 | | • | | • | | • | • | | • |
| 73 | 0.745 | 10 | | | • | | • • | • • | | | • |
| 74 | 0.904 | 10 | | | | • • | | • | | | • |
| 75 | 1.105 | 10 | • | • | • | | | | | • | |
| 76 | 1.359 | 10 | • | | • | | • | | • | | |
| 77 | 0.429 | 9 | | | | • | • | | | | |
| 78 | 0.673 | 9 | | | | | • | • | • | | |
| 79 | 0.897 | 9 | | | | • • | | • | | | |
| 80 | 1.548 | 9 | • | | • | | | | | • | • |
| 81 | 1.989 | 9 | | • | • | | • | • • | | | |
| 82 | 0.226 | 8 | • | | | • | | | | | |
| 83 | 0.243 | 8 | • | | | • | | | | | |
| 84 | 0.989 | 8 | | | | | • | • | | | |
| 85 | 1.149 | 8 | | | | • | • • | | | | • |
| 86 | 1.351 | 8 | | | | | • | • | | | |
| 87 | 1.973 | 8 | | • | | | • • | • | | • | |
| 88 | 2.151 | 8 | | • | • | • | | | | | • |
| 89 | 2.174 | 8 | | • | | • | | | | | • |
| 90 | 0.301 | 7 | | | | • | | • | | • | |
| 91 | 0.392 | 7 | | | | | • | • | | • | |
| 92 | 0.520 | 7 | | | | | | | | | |
| 93 | 0.672 | 7 | | | | • • | | • | | • | • |
| 94 | 1.198 | 7 | | | | | • • • | • • | | | |
| 95 | 1.675 | 7 | | | • | • | | | | • | • |
| 96 | 1.889 | 7 | | • | • | | | • | | | |
| 97 | 0.492 | 6 | | | | | | | | | |
| 98 | 0.758 | 6 | | | | | • | • | | | |
| 99 | 1.175 | 6 | | | | | • | • • | | | |
| 100 | 1.202 | 6 | | | • | • | | | • | • | |
| 101 | 1.308 | 6 | • | | • | | | | | • | |
| 102 | 1.472 | 6 | • | | | • | | • | | • | |
| 103 | 1.531 | 6 | | • | | • | | • | | | |
| 104 | 1.966 | 6 | | | • | • | | | | • | |
| 105 | 2.137 | 6 | | • | • | | | | | • | |
| 106 | 1.531 | 5 | | | | • | • • | | | | |
| 107 | 0.374 | 5 | | | | • • | | | | | |
| 108 | 0.450 | 5 | | | | | • • | | | | |
| 109 | 0.540 | 5 | | | | • | • | • | | | |
| 110 | 0.547 | 5 | | | • | | | • | | | • |
| 111 | 0.559 | 5 | | | | | | • | • | | • |
| 112 | 0.573 | 5 | | | | • | | | | • | • |
| 113 | 0.762 | 5 | | | • | | | | | • | • |
| 114 | 0.918 | 5 | | | | | • | • | | | |
| 115 | 1.062 | 5 | • | | • | | | | | • | |

Table F-2 (continued)

| | | CENSUS REGION | SOUTH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST SOUTH CENTRAL | | | SOUTH ATLANTIC | | | WEST SOUTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences in Samples [a] | | | | | | | | | |
| 116 | 1.070 | 5 | | | | | • | • | | | |
| 117 | 1.105 | 5 | | | | | | • | | | • |
| 118 | 1.138 | 5 | | | | | | • • | | | |
| 119 | 1.175 | 5 | | | | | | | | | |
| 120 | 1.288 | 5 | | • | | | | | | • | |
| 121 | 1.460 | 5 | • | | | | | | | • | |
| 122 | 1.716 | 5 | | | • | • | | • | | | |
| 123 | 1.729 | 5 | | | • | | | | | | • |
| 124 | 0.475 | 4 | | | | | | • | | | |
| 125 | 0.507 | 4 | | | | | • | • | | • | |
| 126 | 0.520 | 4 | • | | | | | | | • | |
| 127 | 0.667 | 4 | | | | | | • | | | |
| 128 | 0.721 | 4 | | | | | | • • | | • | • |
| 129 | 0.832 | 4 | | | • | | • | • • | | | |
| 130 | 0.936 | 4 | | | | • | | | | | |
| 131 | 1.061 | 4 | | | | | | • | | | • |
| 132 | 1.109 | 4 | | | | | | | | | |
| 133 | 1.153 | 4 | • | | | | | | | • | |
| 134 | 1.173 | 4 | | | | | | • • | | | |
| 135 | 1.277 | 4 | | | | | | • | • | | |
| 136 | 1.328 | 4 | | | • | • | | • | | • | |
| 137 | 1.580 | 4 | | | | | | | | | |
| 138 | 1.927 | 4 | | | | | • | | | | |
| 139 | 1.979 | 4 | | | • | | | | | | |
| 140 | 2.000 | 4 | | | | | • | • | | | |
| 141 | 0.319 | 3 | | | | • | | | | | • |
| 142 | 0.375 | 3 | | | | | | | | | |
| 143 | 0.609 | 3 | | | • | | | | | | • |
| 144 | 0.307 | 3 | | | | • | | • | | | |
| 145 | 0.346 | 3 | | | | | | | | | • |
| 146 | 0.353 | 3 | | | | | | | | | |
| 147 | 0.487 | 3 | | | • | | | | | | • |
| 148 | 0.727 | 3 | | | | • | • | • | | | |
| 149 | 0.739 | 3 | | | | | | | | | |
| 150 | 0.790 | 3 | | | | | | | | | |
| 151 | 0.821 | 3 | | | | • | | | | • | |
| 152 | 0.828 | 3 | | | | • | | | | • | |
| 153 | 1.083 | 3 | | | | | • | • • | | | |
| 154 | 1.119 | 3 | | | • | | | • | | | |
| 155 | 1.123 | 3 | | | | | | • | | | |
| 156 | 1.195 | 3 | | | | • | • | • | | | |
| 157 | 1.309 | 3 | | | | • | • | | | | |
| 158 | 1.404 | 3 | • | | | | | | | | |
| 159 | 1.448 | 3 | | | • | | | • | | | |
| 160 | 1.538 | 3 | | | | • | | • | | | |
| 161 | 1.856 | 3 | | | | | | | | | • |
| 162 | 1.953 | 3 | | | | | | • | | | |
| 163 | 2.084 | 3 | | | | • | | | | | |
| 164 | 2.091 | 3 | | | | | | • | | • | |
| 165 | 0.512 | 2 | | | | | • | | | | |
| 166 | 0.572 | 2 | | | • | | | | • | | |
| 167 | 1.809 | 2 | | | | | | | • | | • |
| 168 | 1.900 | 2 | | | | | | | • | | • |
| 169 | 0.237 | 2 | | | | • | | | | | |
| 170 | 0.261 | 2 | | | | | | | | | |
| 171 | 0.337 | 2 | | | | | | • | | | |
| 172 | 0.341 | 2 | | | | | | | | | |
| 173 | 0.342 | 2 | | | | • | | | | | |

Table F-2 (continued)

| | | CENSUS REGION | SOUTH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST SOUTH CENTRAL | | | SOUTH ATLANTIC | | | WEST SOUTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples [a] | | | | | | | | | |
| 174 | 0.382 | 2 | | | | | | | | | |
| 175 | 0.413 | 2 | | | | | | | | | |
| 176 | 0.435 | 2 | | | | | | | | | |
| 177 | 0.450 | 2 | | | | | | | | | |
| 178 | 0.489 | 2 | | | | | | | | | |
| 179 | 0.496 | 2 | | | | | | | | | |
| 180 | 0.552 | 2 | | | | | | | | | |
| 181 | 0.599 | 2 | | | | | | | | | |
| 182 | 0.614 | 2 | | | | | | | | | |
| 183 | 0.677 | 2 | | | | | | | | | |
| 184 | 0.758 | 2 | | | | | | | | | |
| 185 | 0.791 | 2 | | | | | | | | | |
| 186 | 0.908 | 2 | | | | | | | | | |
| 187 | 0.921 | 2 | | | | | | | | | |
| 188 | 0.957 | 2 | | | | | | | | | |
| 189 | 1.059 | 2 | | | | | | | | | |
| 190 | 1.261 | 2 | | | | | | | | | |
| 191 | 1.283 | 2 | | | | | | | | | |
| 192 | 1.291 | 2 | | | | | | | | | |
| 193 | 1.297 | 2 | | | | | | | | | |
| 194 | 1.353 | 2 | | | | | | | | | |
| 195 | 1.463 | 2 | | | | | | | | | |
| 196 | 1.507 | 2 | | | | | | | | | |
| 197 | 1.516 | 2 | | | | | | | | | |
| 198 | 1.525 | 2 | | | | | | | | | |
| 199 | 1.586 | 2 | | | | | | | | | |
| 200 | 1.594 | 2 | | | | | | | | | |
| 201 | 1.673 | 2 | | | | | | | | | |
| 202 | 1.866 | 2 | | | | | | | | | |
| 203 | 1.931 | 2 | | | | | | | | | |
| 204 | 2.030 | 2 | | | | | | | | | |
| 205 | 2.102 | 2 | | | | | | | | | |
| 206 | 0.333 | 1 | | | | | | | | | |
| 207 | 0.544 | 1 | | | | | | | | | |
| 208 | 0.199 | 1 | | | | | | | | | |
| 209 | 0.203 | 1 | | | | | | | | | |
| 210 | 0.216 | 1 | | | | | | | | | |
| 211 | 0.221 | 1 | | | | | | | | | |
| 212 | 0.239 | 1 | | | | | | | | | |
| 213 | 0.240 | 1 | | | | | | | | | |
| 214 | 0.241 | 1 | | | | | | | | | |
| 215 | 0.254 | 1 | | | | | | | | | |
| 216 | 0.266 | 1 | | | | | | | | | |
| 217 | 0.268 | 1 | | | | | | | | | |
| 218 | 0.283 | 1 | | | | | | | | | |
| 219 | 0.285 | 1 | | | | | | | | | |
| 220 | 0.293 | 1 | | | | | | | | | |
| 221 | 0.300 | 1 | | | | | | | | | |
| 222 | 0.327 | 1 | | | | | | | | | |
| 223 | 0.344 | 1 | | | | | | | | | |
| 224 | 0.352 | 1 | | | | | | | | | |
| 225 | 0.353 | 1 | | | | | | | | | |
| 226 | 0.358 | 1 | | | | | | | | | |
| 227 | 0.359 | 1 | | | | | | | | | |
| 228 | 0.362 | 1 | | | | | | | | | |
| 229 | 0.365 | 1 | | | | | | | | | |
| 230 | 0.370 | 1 | | | | | | | | | |
| 231 | 0.371 | 1 | | | | | | | | | |

Table F-2 (continued)

| | | CENSUS REGION | SOUTH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST SOUTH CENTRAL | | | SOUTH ATLANTIC | | | WEST SOUTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples [a] | | | | | | | | | |
| 232 | 0.372 | 1 | | | | | | | • | | |
| 233 | 0.394 | 1 | | | | • | | | | | |
| 234 | 0.405 | 1 | | | | | | • | | | |
| 235 | 0.414 | 1 | | | | | | • | | | |
| 236 | 0.419 | 1 | | | | | | | | | |
| 237 | 0.421 | 1 | • | | | | | | | | |
| 238 | 0.422 | 1 | | | | • | | | | | |
| 239 | 0.455 | 1 | • | | | | | | | | |
| 240 | 0.463 | 1 | | | | | | | | | |
| 241 | 0.465 | 1 | | | | | | | | | |
| 242 | 0.504 | 1 | | | | | | | | | |
| 243 | 0.507 | 1 | | | | | | | | | |
| 244 | 0.510 | 1 | | | | | | | | | |
| 245 | 0.516 | 1 | | | | • | | | | | |
| 246 | 0.545 | 1 | | | | | | • | | | |
| 247 | 0.575 | 1 | | | | • | | | | | |
| 248 | 0.584 | 1 | | | | | | | | | |
| 249 | 0.652 | 1 | | | | | | • | | | |
| 250 | 0.653 | 1 | | | | | | | | | |
| 251 | 0.678 | 1 | | | | | | • | | | |
| 252 | 0.683 | 1 | | | | | | | | | |
| 253 | 0.711 | 1 | | | | | | | | | |
| 254 | 0.744 | 1 | | | | | | | | | |
| 255 | 0.745 | 1 | | | | • | | | | | |
| 256 | 0.767 | 1 | | | | | | | | | |
| 257 | 0.771 | 1 | | | | • | | | | | |
| 258 | 0.775 | 1 | | | | • | | | | | |
| 259 | 0.779 | 1 | | | | | | | | | |
| 260 | 0.786 | 1 | | | | | | | | • | • |
| 261 | 0.787 | 1 | | | | • | | | | | |
| 262 | 0.821 | 1 | | | | | | | | | |
| 263 | 0.915 | 1 | | | • | | | | | | |
| 264 | 0.929 | 1 | | | | • | | | | | |
| 265 | 0.945 | 1 | | | | • | | | | | |
| 266 | 0.960 | 1 | | | • | | | | | | |
| 267 | 0.988 | 1 | | | • | | | | | | |
| 268 | 1.017 | 1 | | | | | | | | | |
| 269 | 1.018 | 1 | | | | | | | | | |
| 270 | 1.037 | 1 | | | | | | • | | | • |
| 271 | 1.046 | 1 | | | | | | | | • | |
| 272 | 1.061 | 1 | | | | | | | | | |
| 273 | 1.063 | 1 | | | | • | | | | | |
| 274 | 1.070 | 1 | | | | | • | | | | |
| 275 | 1.089 | 1 | | | | | | • | | | |
| 276 | 1.091 | 1 | | | • | | | | | | |
| 277 | 1.112 | 1 | | | • | | | | | | |
| 278 | 1.121 | 1 | | | | | | | | | • |
| 279 | 1.140 | 1 | | | | | | | | | |
| 280 | 1.174 | 1 | | | | | | | | | |
| 281 | 1.180 | 1 | | | • | | | | | | |
| 282 | 1.197 | 1 | | | | | | | | | • |
| 283 | 1.204 | 1 | | | | | | • | | | |
| 284 | 1.204 | 1 | | | • | | | | | | |
| 285 | 1.218 | 1 | | | | | | • | | | |
| 286 | 1.223 | 1 | | | • | | | | | | |
| 287 | 1.226 | 1 | | | | | | • | | | |
| 288 | 1.243 | 1 | | | • | | | | | | |
| 289 | 1.248 | 1 | | | | | | | | | • |

Table F-2 (concluded)

| | | CENSUS REGION | SOUTH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST SOUTH CENTRAL | | | SOUTH ATLANTIC | | | WEST SOUTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples[a] | | | | | | | | | |
| 290 | 1.289 | 1 | | | | | | | | | |
| 291 | 1.291 | 1 | • | | | | | | | | |
| 292 | 1.296 | 1 | | | | | | | | | • |
| 293 | 1.309 | 1 | | | • | | | | | | |
| 294 | 1.311 | 1 | | | | | | | | • | |
| 295 | 1.335 | 1 | | | | | | • | | | |
| 296 | 1.342 | 1 | | | | | | | | | |
| 297 | 1.346 | 1 | | | • | | | | | | |
| 298 | 1.348 | 1 | | | | | | | | • | |
| 299 | 1.350 | 1 | | | | | | | | | • |
| 300 | 1.363 | 1 | | | | | | • | | | |
| 301 | 1.366 | 1 | | | • | | | | | | |
| 302 | 1.377 | 1 | | | • | | | | | | |
| 303 | 1.384 | 1 | | | • | | | | | | |
| 304 | 1.386 | 1 | | | • | | | | | | |
| 305 | 1.390 | 1 | | | • | | | | | | |
| 306 | 1.403 | 1 | | | • | | | | | | |
| 307 | 1.421 | 1 | | | | | | | | | |
| 308 | 1.422 | 1 | | | | | | | | | |
| 309 | 1.427 | 1 | | | • | | | | | | |
| 310 | 1.433 | 1 | | | | | | | | | |
| 311 | 1.435 | 1 | | | | | | | | | |
| 312 | 1.457 | 1 | | | • | | | | | | |
| 313 | 1.481 | 1 | | | | | | | | • | |
| 314 | 1.492 | 1 | | • | | | | | | | |
| 315 | 1.495 | 1 | | | | | | | | | |
| 316 | 1.499 | 1 | | | | | | | | | |
| 317 | 1.523 | 1 | | | | | | | | | |
| 318 | 1.525 | 1 | | | • | | | | | | |
| 319 | 1.531 | 1 | | | | | | | | | |
| 320 | 1.545 | 1 | | | | | | | | | |
| 321 | 1.562 | 1 | | | | | | | | | |
| 322 | 1.583 | 1 | | | | | | | | | |
| 323 | 1.584 | 1 | | | | | | | | | |
| 324 | 1.589 | 1 | | | | | | | | | |
| 325 | 1.596 | 1 | | | | | | | | | |
| 326 | 1.602 | 1 | | | | | | | | | |
| 327 | 1.606 | 1 | | | | | | | | | |
| 328 | 1.607 | 1 | | | | | | | | | |
| 329 | 1.671 | 1 | | | | | | • | | | |
| 330 | 1.695 | 1 | | | | | | | | | |
| 331 | 1.740 | 1 | | | | | | | | | |
| 332 | 1.761 | 1 | | | | | | | • | | |
| 333 | 1.762 | 1 | | | • | | | | | | |
| 334 | 1.776 | 1 | | | | | | | | | |
| 335 | 1.839 | 1 | | | | | | | | | |
| 336 | 1.907 | 1 | | | • | | | | | | |
| 337 | 1.964 | 1 | | | | | | • | | | |
| 338 | 1.973 | 1 | | • | | | | | | | |
| 339 | 1.980 | 1 | | | | | | | | | |
| 340 | 1.991 | 1 | | | | | | • | | | |
| 341 | 2.053 | 1 | | • | | | | | | | |
| 342 | 2.063 | 1 | | • | | | | | | | |
| 343 | 2.107 | 1 | | | | | | | | | |

[a]Total number of occurrences from all sample analyses (four census regions and nine census divisions).

000076

Table F-3. Unidentified Peaks in the 15/50% Florisil Semivolatile Organic Analysis Data Set - North Central Census Region

| | | CENSUS REGION | NORTH CENTRAL | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST NORTH CENTRAL | | | WEST NORTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples [a] | | | | | | |
| I.S. | 1.000 | 46 | • • | • • • | • • • | • | • | • • |
| 1 | 1.920 | 44 | • • | • • • | • • • | • | • | • • |
| 2 | 0.419 | 42 | • • | • • | • • • | • | • | • • |
| 3 | 1.052 | 41 | • • | • • • | • • • | • | • | • • |
| 4 | 1.007 | 40 | • • | • • • | • • • | • | • | • • |
| 5 | 0.452 | 38 | • • | • • | • • • | • | • | • • |
| 6 | 1.616 | 38 | • • | • • • | • • • | • | • | • • |
| 7 | 0.402 | 37 | • | • • | • • • | • | • | • • |
| 8 | 0.633 | 35 | • • | • • | • • • | • | | • |
| 9 | 1.742 | 35 | • • | • • • | • • • | • | | • • |
| 10 | 0.449 | 34 | • • | • • | • • | • | • | • • |
| 11 | 1.569 | 34 | • | • • • | • • • | • | • | • |
| 12 | 2.034 | 34 | • • | • • • | • • | • | | • • |
| 13 | 1.692 | 33 | • | • • • | • • • | • | • | • • |
| 14 | 1.682 | 32 | • • | • • • | • • | • | | • • |
| 15 | 1.710 | 32 | • | • • • | • • • | • | • | • • |
| 16 | 0.437 | 29 | • | • | • • | | | • • |
| 17 | 0.606 | 29 | • | • • | • • • | • | | |
| 18 | 1.238 | 29 | • • | • • • | • • • | • | • | • • |
| 19 | 1.657 | 28 | • • | • • • | • • | • | • | • • |
| 20 | 1.187 | 28 | • | • • • | • • • | • | | • |
| 21 | 1.453 | 28 | • • | • • | • • • | • | • | • • |
| 22 | 0.839 | 27 | • • | • • • | • • | • | • | • |
| 23 | 1.665 | 27 | • | • • • | • • • | • | | • • |
| 24 | 0.647 | 26 | • | • • | • • • | • | | |
| 25 | 1.128 | 26 | • • | • • • | • • • | • | • | • |
| 26 | 2.059 | 26 | • | • • | • • • | • | | • • |
| 27 | 1.953 | 25 | • • | • | • | | | • • |
| 28 | 1.440 | 25 | • | • | • • | • | • | • • |
| 29 | 1.490 | 24 | • | • | • • | • | • | • • |
| 30 | 1.722 | 23 | • | • | • • | • | • | • • |
| 31 | 1.430 | 22 | • | • | • | • | • | • • |
| 32 | 0.932 | 21 | • | • • | • • | • | | • |
| 33 | 1.115 | 21 | • • | • | • • • | • | • | |
| 34 | 1.223 | 21 | • | • | • • | • | | • |
| 35 | 2.009 | 20 | • | • | • | | • | • • |
| 36 | 0.589 | 20 | • | • • | • • | | | |
| 37 | 1.147 | 20 | • | • | • | • | | • |
| 38 | 1.567 | 20 | | • | • • | | • | • • |
| 39 | 1.235 | 19 | • | • • • | • | | • | |
| 40 | 1.178 | 18 | • | • | • | • | | • |
| 41 | 0.555 | 18 | • | • | | | | |
| 42 | 0.990 | 17 | • | • • | • • | • | | • |
| 43 | 1.319 | 17 | • | • | • • | | | • • |
| 44 | 1.629 | 16 | | • • | • • | | • | |
| 45 | 0.876 | 16 | • • | • | • | | | |
| 46 | 0.680 | 15 | • | • • | | | | |
| 47 | 0.912 | 15 | • • | • | • • | • | | |
| 48 | 1.086 | 15 | • • | • | • | • | | |
| 49 | 1.089 | 15 | | • • | • • | | | • • |
| 50 | 1.556 | 15 | | • | • | | • | • • |
| 51 | 1.980 | 15 | • | • | | | | • • |
| 52 | 1.929 | 14 | • | | | | • | • |
| 53 | 0.982 | 14 | • • | • | • • | • | | |
| 54 | 1.809 | 14 | | • | | | • | • |
| 55 | 1.027 | 13 | • | • | • • • | | | • |
| 56 | 1.210 | 13 | • | | • • | | | • • |
| 57 | 1.500 | 13 | | • | • | | • | • |

Table F-3 (continued)

| | | CENSUS REGION | NORTH CENTRAL | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST NORTH CENTRAL | | | WEST NORTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples[d] | | | | | | |
| 58 | 1.950 | 13 | • | | • • | | | • |
| 59 | 0.586 | 12 | | • | • | • | | • |
| 60 | 0.858 | 12 | • | | • • | | | • • |
| 61 | 1.511 | 12 | • | • | • | | • | |
| 62 | 1.961 | 12 | | • • | • • • | | | |
| 63 | 2.014 | 12 | | | | • | • | • • |
| 64 | 2.088 | 12 | | • | • | • | | • |
| 65 | 0.996 | 11 | | | | | • | • |
| 66 | 1.027 | 11 | | | | | • | • |
| 67 | 0.218 | 11 | • | | | • | | |
| 68 | 0.398 | 11 | • | • | • | | | |
| 69 | 1.475 | 11 | | • | • | | • | • |
| 70 | 1.522 | 11 | | • | • | | • | |
| 71 | 1.542 | 11 | | • | | | • | • |
| 72 | 1.980 | 11 | • | • | | | • | • |
| 73 | 0.745 | 10 | • | • | | • | | |
| 74 | 0.904 | 10 | • | | • • | | | |
| 75 | 1.105 | 10 | | | | | • | • |
| 76 | 1.359 | 10 | • | • | • | | | |
| 77 | 0.429 | 9 | • | • • | • | | • | |
| 78 | 0.673 | 9 | • • | | • | • | | |
| 79 | 0.897 | 9 | • • | | | | | |
| 80 | 1.548 | 9 | | • | • | | | • |
| 81 | 1.989 | 9 | | • | • • • | | | |
| 82 | 0.226 | 8 | • | | | • | | |
| 83 | 0.243 | 8 | • | | | • | | |
| 84 | 0.989 | 8 | • | | • | | • | • |
| 85 | 1.149 | 8 | • | • | • | | | |
| 86 | 1.351 | 8 | | | • | | • | • • |
| 87 | 1.973 | 8 | | • • | • • | | | |
| 88 | 2.151 | 8 | | | | | | • • |
| 89 | 2.174 | 8 | | • | • | | | |
| 90 | 0.301 | 7 | • • | | | | | |
| 91 | 0.392 | 7 | • | | | | | • |
| 92 | 0.520 | 7 | | | | | | |
| 93 | 0.672 | 7 | • | | | | | |
| 94 | 1.198 | 7 | • | | • | | | |
| 95 | 1.675 | 7 | | | • | | | |
| 96 | 1.889 | 7 | | | | | • | |
| 97 | 0.492 | 6 | • • | | • | | | • |
| 98 | 0.758 | 6 | • | | • • | | | |
| 99 | 1.175 | 6 | | | • • | | | |
| 100 | 1.202 | 6 | • | | | | | • |
| 101 | 1.308 | 6 | | | • | | | |
| 102 | 1.472 | 6 | | | | • | | |
| 103 | 1.531 | 6 | | • | • | | • | |
| 104 | 1.966 | 6 | | | | | | • |
| 105 | 2.137 | 6 | | | | | | • |
| 106 | 1.531 | 5 | | | • | | | |
| 107 | 0.374 | 5 | | • | | | | |
| 108 | 0.450 | 5 | | • | | | | |
| 109 | 0.540 | 5 | | • | | | | |
| 110 | 0.547 | 5 | | | | • | | |
| 111 | 0.559 | 5 | | | | • | | |
| 112 | 0.573 | 5 | • | | | | | |
| 113 | 0.762 | 5 | | | | • | | • |
| 114 | 0.918 | 5 | | | • • | | | • |
| 115 | 1.062 | 5 | | | | | | |

Table F-3 (continued)

| | | CENSUS REGION | NORTH CENTRAL | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST NORTH CENTRAL | | | WEST NORTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences in Samples a | | | | | | |
| 116 | 1.070 | 5 | | | • • | | | |
| 117 | 1.105 | 5 | | | | | | • |
| 118 | 1.138 | 5 | | | • • | | | • |
| 119 | 1.175 | 5 | • | • | | | | |
| 120 | 1.288 | 5 | | | | | | |
| 121 | 1.460 | 5 | | | | | • | |
| 122 | 1.716 | 5 | • | | | | | |
| 123 | 1.729 | 5 | | | | | | • • |
| 124 | 0.475 | 4 | • | | | | | |
| 125 | 0.507 | 4 | | | | | | |
| 126 | 0.520 | 4 | | | | | | |
| 127 | 0.667 | 4 | • | | • | • | | |
| 128 | 0.721 | 4 | | | | | | |
| 129 | 0.832 | 4 | | | | | | |
| 130 | 0.936 | 4 | • | | | | | |
| 131 | 1.061 | 4 | • | | | | | |
| 132 | 1.109 | 4 | • | • | | | | |
| 133 | 1.153 | 4 | | | | | | |
| 134 | 1.173 | 4 | | | • • | | | |
| 135 | 1.277 | 4 | | | | | | • |
| 136 | 1.328 | 4 | | | | | | |
| 137 | 1.580 | 4 | | | | | | • • |
| 138 | 1.927 | 4 | | • • | | | | |
| 139 | 1.979 | 4 | | | | | | • |
| 140 | 2.000 | 4 | | | • • | | | |
| 141 | 0.319 | 3 | • • | | | | | |
| 142 | 0.375 | 3 | • | | | | | |
| 143 | 0.609 | 3 | | | | | | • |
| 144 | 0.307 | 3 | | | | | | |
| 145 | 0.346 | 3 | • | | | | | |
| 146 | 0.353 | 3 | | | | | | |
| 147 | 0.487 | 3 | | | | | | • |
| 148 | 0.727 | 3 | | | | | | |
| 149 | 0.739 | 3 | | | | • | | |
| 150 | 0.790 | 3 | | | | | | |
| 151 | 0.821 | 3 | | | | | | |
| 152 | 0.828 | 3 | | | | | | |
| 153 | 1.083 | 3 | | | | | | |
| 154 | 1.119 | 3 | | | | | | • |
| 155 | 1.123 | 3 | | | • • | | | |
| 156 | 1.195 | 3 | | | | | | |
| 157 | 1.309 | 3 | | | | | | |
| 158 | 1.404 | 3 | • | | | | | |
| 159 | 1.448 | 3 | | | | | | |
| 160 | 1.538 | 3 | | • | | | | |
| 161 | 1.856 | 3 | | | | | • | • |
| 162 | 1.953 | 3 | | | • • | | | |
| 163 | 2.084 | 3 | | | | | • | • |
| 164 | 2.091 | 3 | | | | | | • |
| 165 | 0.512 | 2 | • | | | | | • |
| 166 | 0.572 | 2 | | | | | | |
| 167 | 1.809 | 2 | | | | | | |
| 168 | 1.900 | 2 | | | | | | |
| 169 | 0.237 | 2 | • | | | | | |
| 170 | 0.261 | 2 | | | | | | |
| 171 | 0.337 | 2 | • | | | | | |
| 172 | 0.341 | 2 | | | | | | |
| 173 | 0.342 | 2 | • | | | | | |

Table F-3 (continued)

| | | CENSUS REGION | NORTH CENTRAL | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST NORTH CENTRAL | | | WEST NORTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences in Samples[a] | | | | | | |
| 174 | 0.382 | 2 | | | | | | |
| 175 | 0.413 | 2 | | | | | | |
| 176 | 0.435 | 2 | | | | | | |
| 177 | 0.450 | 2 | | | | | | |
| 178 | 0.489 | 2 | | | | | | |
| 179 | 0.496 | 2 | | | | | | |
| 180 | 0.552 | 2 | | | | | | |
| 181 | 0.599 | 2 | | | | | | |
| 182 | 0.614 | 2 | | | | | | |
| 183 | 0.677 | 2 | | | | | | |
| 184 | 0.758 | 2 | | | | | | |
| 185 | 0.791 | 2 | | | | | | |
| 186 | 0.908 | 2 | | | | | | |
| 187 | 0.921 | 2 | | | | | | |
| 188 | 0.957 | 2 | | | | | | |
| 189 | 1.059 | 2 | | | | | | |
| 190 | 1.261 | 2 | | | | | | |
| 191 | 1.283 | 2 | | | | | | |
| 192 | 1.291 | 2 | | | | | | |
| 193 | 1.297 | 2 | | | | | | |
| 194 | 1.353 | 2 | | | | | | |
| 195 | 1.463 | 2 | | | | | | |
| 196 | 1.507 | 2 | | | | | | |
| 197 | 1.516 | 2 | | | | | | |
| 198 | 1.525 | 2 | | | | | | |
| 199 | 1.586 | 2 | | | | | | |
| 200 | 1.594 | 2 | | | | | | |
| 201 | 1.673 | 2 | | | | | | |
| 202 | 1.866 | 2 | | | | | | |
| 203 | 1.931 | 2 | | | | | | |
| 204 | 2.030 | 2 | | | | | | |
| 205 | 2.102 | 2 | | | | | | |
| 206 | 0.333 | 1 | | | | | | |
| 207 | 0.544 | 1 | | | | | | |
| 208 | 0.199 | 1 | | | | | | |
| 209 | 0.203 | 1 | | | | | | |
| 210 | 0.216 | 1 | | | | | | |
| 211 | 0.221 | 1 | | | | | | |
| 212 | 0.239 | 1 | | | | | | |
| 213 | 0.240 | 1 | | | | | | |
| 214 | 0.241 | 1 | | | | | | |
| 215 | 0.254 | 1 | | | | | | |
| 216 | 0.266 | 1 | | | | | | |
| 217 | 0.268 | 1 | | | | | | |
| 218 | 0.283 | 1 | | | | | | |
| 219 | 0.285 | 1 | | | | | | |
| 220 | 0.293 | 1 | | | | | | |
| 221 | 0.300 | 1 | | | | | | |
| 222 | 0.327 | 1 | | | | | | |
| 223 | 0.344 | 1 | | | | | | |
| 224 | 0.352 | 1 | | | | | | |
| 225 | 0.353 | 1 | | | | | | |
| 226 | 0.358 | 1 | | | | | | |
| 227 | 0.359 | 1 | | | | | | |
| 228 | 0.362 | 1 | | | | | | |
| 229 | 0.365 | 1 | | | | | | |
| 230 | 0.370 | 1 | | | | | | |
| 231 | 0.371 | 1 | | | | | | |

Table F-3 (continued)

| | | CENSUS REGION | NORTH CENTRAL | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST NORTH CENTRAL | | | WEST NORTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples [a] | | | | | | |
| 232 | 0.372 | 1 | | | | | | |
| 233 | 0.394 | 1 | | | | | | |
| 234 | 0.405 | 1 | | | | | | |
| 235 | 0.414 | 1 | | | | | | |
| 236 | 0.419 | 1 | | | | | | |
| 237 | 0.421 | 1 | | | | | | |
| 238 | 0.422 | 1 | | | | | | |
| 239 | 0.455 | 1 | | | | | | |
| 240 | 0.463 | 1 | | | | | | |
| 241 | 0.465 | 1 | | | | | | |
| 242 | 0.504 | 1 | | | | | | |
| 243 | 0.507 | 1 | | | | | | |
| 244 | 0.510 | 1 | | | | | | |
| 245 | 0.516 | 1 | | | | | | |
| 246 | 0.545 | 1 | | | | | | |
| 247 | 0.575 | 1 | | | | | | |
| 248 | 0.584 | 1 | | | | | | |
| 249 | 0.652 | 1 | | | | | | |
| 250 | 0.653 | 1 | | | | | | |
| 251 | 0.678 | 1 | | | | | | |
| 252 | 0.683 | 1 | | | | | | |
| 253 | 0.711 | 1 | | | | | | |
| 254 | 0.744 | 1 | | | | | | |
| 255 | 0.745 | 1 | | | | | | |
| 256 | 0.767 | 1 | | | | | | |
| 257 | 0.771 | 1 | | | | | | |
| 258 | 0.775 | 1 | | | | | | |
| 259 | 0.779 | 1 | | | | | | |
| 260 | 0.786 | 1 | | | | | | |
| 261 | 0.787 | 1 | | | | | | |
| 262 | 0.821 | 1 | | | | | | |
| 263 | 0.915 | 1 | | | | | | |
| 264 | 0.929 | 1 | | | | | | |
| 265 | 0.945 | 1 | | | | | | |
| 266 | 0.960 | 1 | | | | | | |
| 267 | 0.988 | 1 | | | | | | |
| 268 | 1.017 | 1 | | | | | | |
| 269 | 1.018 | 1 | | | | | | |
| 270 | 1.037 | 1 | | | | | | |
| 271 | 1.046 | 1 | | | | | | |
| 272 | 1.061 | 1 | | | | | | |
| 273 | 1.063 | 1 | | | | | | |
| 274 | 1.070 | 1 | | | | | | |
| 275 | 1.089 | 1 | | | | | | |
| 276 | 1.091 | 1 | | | | | | |
| 277 | 1.112 | 1 | | | | | | |
| 278 | 1.121 | 1 | | | | | | |
| 279 | 1.140 | 1 | | | | | | |
| 280 | 1.174 | 1 | | | | | | |
| 281 | 1.180 | 1 | | | | | | |
| 282 | 1.197 | 1 | | | | | | |
| 283 | 1.204 | 1 | | | | | | |
| 284 | 1.204 | 1 | | | | | | |
| 285 | 1.218 | 1 | | | | | | |
| 286 | 1.223 | 1 | | | | | | |
| 287 | 1.226 | 1 | | | | | | |
| 288 | 1.243 | 1 | | | | | | |
| 289 | 1.248 | 1 | | | | | | |

Table F-3 (concluded)

| | | CENSUS REGION | NORTH CENTRAL | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | EAST NORTH CENTRAL | | | WEST NORTH CENTRAL | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples[a] | | | | | | |
| 290 | 1.289 | 1 | | | | | | |
| 291 | 1.291 | 1 | | | | | | |
| 292 | 1.296 | 1 | | | | | | |
| 293 | 1.309 | 1 | | | | | | |
| 294 | 1.311 | 1 | | | | | | |
| 295 | 1.335 | 1 | | | | | | |
| 296 | 1.342 | 1 | | | | | | |
| 297 | 1.346 | 1 | | | | | | |
| 298 | 1.348 | 1 | | | | | | |
| 299 | 1.350 | 1 | | | | | | |
| 300 | 1.363 | 1 | | | | | | |
| 301 | 1.366 | 1 | | | | | | |
| 302 | 1.377 | 1 | | | | | | |
| 303 | 1.384 | 1 | | | | | | |
| 304 | 1.386 | 1 | | | | | | |
| 305 | 1.390 | 1 | | | | | | |
| 306 | 1.403 | 1 | | | | | | |
| 307 | 1.421 | 1 | | | | | | |
| 308 | 1.422 | 1 | | | | | | |
| 309 | 1.427 | 1 | | | | | | |
| 310 | 1.433 | 1 | | | | | | |
| 311 | 1.435 | 1 | | | | | | |
| 312 | 1.457 | 1 | | | | | | |
| 313 | 1.481 | 1 | | | | | | |
| 314 | 1.492 | 1 | | | | | | |
| 315 | 1.495 | 1 | | | | | | |
| 316 | 1.499 | 1 | | | | | | |
| 317 | 1.523 | 1 | | | | | | |
| 318 | 1.525 | 1 | | | | | | |
| 319 | 1.531 | 1 | | | | | | |
| 320 | 1.545 | 1 | | | | | | |
| 321 | 1.562 | 1 | | | | | | |
| 322 | 1.583 | 1 | | | | | | |
| 323 | 1.584 | 1 | | | | | | |
| 324 | 1.589 | 1 | | | | | | |
| 325 | 1.596 | 1 | | | | | | |
| 326 | 1.602 | 1 | | | | | | |
| 327 | 1.606 | 1 | | | | | | |
| 328 | 1.607 | 1 | | | | | | |
| 329 | 1.671 | 1 | | | | | | |
| 330 | 1.695 | 1 | | | | | | |
| 331 | 1.740 | 1 | | | | | | |
| 332 | 1.761 | 1 | | | | | | |
| 333 | 1.762 | 1 | | | | | | |
| 334 | 1.776 | 1 | | | | | | |
| 335 | 1.839 | 1 | | | | | | |
| 336 | 1.907 | 1 | | | | | | |
| 337 | 1.964 | 1 | | | | | | |
| 338 | 1.973 | 1 | | | | | | |
| 339 | 1.980 | 1 | | | | | | |
| 340 | 1.991 | 1 | | | | | | |
| 341 | 2.053 | 1 | | | | | | |
| 342 | 2.063 | 1 | | | | | | |
| 343 | 2.107 | 1 | | | | | | |

[a]Total number of occurrences from all sample analyses (four census regions and nine census divisions).

Table F-4. Unidentified Peaks in the 15/50% Florisil Semivolatile Organic Analysis Data Set - Northeast Census Region

| | | CENSUS REGION | NORTHEAST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MIDDLE ATLANTIC | | | NEW ENGLAND | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples a | | | | | | |
| I.S. | 1.000 | 46 | • • | • • | • • | • | • | • |
| 1 | 1.920 | 44 | • • | • • | • • | • | • | • |
| 2 | 0.419 | 42 | • • | • • | • • | • | • | • |
| 3 | 1.052 | 41 | • | • • | • • | | • | |
| 4 | 1.007 | 40 | • • | • | • | | | • |
| 5 | 0.452 | 38 | • • | • | • • | | | • |
| 6 | 1.616 | 38 | • • | • | • | • | | • |
| 7 | 0.402 | 37 | • | • | • • | • | • | • |
| 8 | 0.633 | 35 | • • | • • | • • | • | • | • |
| 9 | 1.742 | 35 | • • | • | • | • | | • |
| 10 | 0.449 | 34 | • • | • | • • | | | • |
| 11 | 1.569 | 34 | • • | | • | • | | • |
| 12 | 2.034 | 34 | • • | | • • | | | • |
| 13 | 1.692 | 33 | • | • | • | | | • |
| 14 | 1.682 | 32 | • • | • | • • | • | | • |
| 15 | 1.710 | 32 | • | • | • | | | |
| 16 | 0.437 | 29 | • • | | • • | • | • | • |
| 17 | 0.606 | 29 | • | • | • • | • | | • |
| 18 | 1.238 | 29 | • | | | • | | |
| 19 | 1.657 | 28 | • • | • | • | • | | • |
| 20 | 1.187 | 28 | • | • | • | | | |
| 21 | 1.453 | 28 | • | • | • | | | • |
| 22 | 0.839 | 27 | • • | | | • | | |
| 23 | 1.665 | 27 | • | • | • | | | |
| 24 | 0.647 | 26 | • | • | | • | | • |
| 25 | 1.128 | 26 | | | | | | |
| 26 | 2.059 | 26 | • | | • | | | |
| 27 | 1.953 | 25 | • | • | • | | | • |
| 28 | 1.440 | 25 | • | • | • | | | |
| 29 | 1.490 | 24 | • | • | • | | | |
| 30 | 1.722 | 23 | • | • | • | | | • |
| 31 | 1.430 | 22 | • | • | • | | | |
| 32 | 0.932 | 21 | | | • | | | |
| 33 | 1.115 | 21 | | | | | | |
| 34 | 1.223 | 21 | | • • | | • | | |
| 35 | 2.009 | 20 | • | | • | | | |
| 36 | 0.589 | 20 | • | • | • | • | | • |
| 37 | 1.147 | 20 | | | | | | |
| 38 | 1.567 | 20 | • | • | • | | | |
| 39 | 1.235 | 19 | | | | • | | |
| 40 | 1.178 | 18 | • | • | • | | | |
| 41 | 0.555 | 18 | • | • | • | • | • | • |
| 42 | 0.990 | 17 | • | | | | | |
| 43 | 1.319 | 17 | | • | • | | | |
| 44 | 1.629 | 16 | • | | | • | | • |
| 45 | 0.876 | 16 | • | | | | | • |
| 46 | 0.680 | 15 | | | | | • | • |
| 47 | 0.912 | 15 | | | | | | |
| 48 | 1.086 | 15 | | | | • | | |
| 49 | 1.089 | 15 | | • | • | | | |
| 50 | 1.556 | 15 | • | • | • | | | |
| 51 | 1.980 | 15 | • | | • | | | |
| 52 | 1.929 | 14 | | | | | | • |
| 53 | 0.982 | 14 | • | | | | | |
| 54 | 1.809 | 14 | • | • | | | | |
| 55 | 1.027 | 13 | | | | | | |
| 56 | 1.210 | 13 | • | • | • | | | |
| 57 | 1.500 | 13 | • | • | • | | | |

Table F-4 (continued)

| | | CENSUS REGION | NORTHEAST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MIDDLE ATLANTIC | | | NEW ENGLAND | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences in Samples [a] | | | | | | |
| 58 | 1.950 | 13 | • | | • | | | |
| 59 | 0.586 | 12 | | | | | | |
| 60 | 0.858 | 12 | • | • | • | | | |
| 61 | 1.511 | 12 | • | • | • | | | |
| 62 | 1.961 | 12 | | • | | | | |
| 63 | 2.014 | 12 | | | | | | |
| 64 | 2.088 | 12 | • | | • | | | |
| 65 | 0.996 | 11 | • | • | • | | | |
| 66 | 1.027 | 11 | • | • | • | | | |
| 67 | 0.218 | 11 | • | • | | • | | |
| 68 | 0.398 | 11 | • | | | • | | |
| 69 | 1.475 | 11 | • | • | • | | | |
| 70 | 1.522 | 11 | | • | • | | | |
| 71 | 1.542 | 11 | • | | • | | | |
| 72 | 1.980 | 11 | • | | | | | |
| 73 | 0.745 | 10 | | • | | | | |
| 74 | 0.904 | 10 | • | | | | | |
| 75 | 1.105 | 10 | • | • | • | | | |
| 76 | 1.359 | 10 | • | • | • | | | |
| 77 | 0.429 | 9 | • | | | | | |
| 78 | 0.673 | 9 | • • | | | | | |
| 79 | 0.897 | 9 | • | | | | | |
| 80 | 1.548 | 9 | • | • | | | | |
| 81 | 1.989 | 9 | | | | | | |
| 82 | 0.226 | 8 | • | | | • | | |
| 83 | 0.243 | 8 | • | | | • | | |
| 84 | 0.989 | 8 | | | | | | |
| 85 | 1.149 | 8 | • | | • | | | |
| 86 | 1.351 | 8 | | | | | | |
| 87 | 1.973 | 8 | | | | | | |
| 88 | 2.151 | 8 | | | • | | | |
| 89 | 2.174 | 8 | | | • | | | |
| 90 | 0.301 | 7 | | | | | | |
| 91 | 0.392 | 7 | | | | • | | |
| 92 | 0.520 | 7 | • | • | • | • | • | • |
| 93 | 0.672 | 7 | | | | | | |
| 94 | 1.198 | 7 | | | | | | |
| 95 | 1.675 | 7 | | | | | | |
| 96 | 1.889 | 7 | • | | • | | | |
| 97 | 0.492 | 6 | • • | | | | | |
| 98 | 0.758 | 6 | | | • | | | |
| 99 | 1.175 | 6 | | | | | | |
| 100 | 1.202 | 6 | | | | | | |
| 101 | 1.308 | 6 | • | • | | | | |
| 102 | 1.472 | 6 | | | | | | |
| 103 | 1.531 | 6 | | | | | | |
| 104 | 1.966 | 6 | • | | • | | | |
| 105 | 2.137 | 6 | • | | | | | |
| 106 | 1.531 | 5 | | | | | | |
| 107 | 0.374 | 5 | | • | | | | |
| 108 | 0.450 | 5 | • | • | | | | |
| 109 | 0.540 | 5 | | | | | | |
| 110 | 0.547 | 5 | | | • | | | |
| 111 | 0.559 | 5 | | | • | | | |
| 112 | 0.573 | 5 | | | | | | |
| 113 | 0.762 | 5 | | | | | | |
| 114 | 0.918 | 5 | | | | | | |
| 115 | 1.062 | 5 | | • | | | | |

Table F-4 (continued)

| | | CENSUS REGION | NORTHEAST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MIDDLE ATLANTIC | | | NEW ENGLAND | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples[a] | | | | | | |
| 116 | 1.070 | 5 | | | | | | |
| 117 | 1.105 | 5 | | | | • | | • |
| 118 | 1.138 | 5 | | | | | | |
| 119 | 1.175 | 5 | • | • | • | | | |
| 120 | 1.288 | 5 | • | • | | | | |
| 121 | 1.460 | 5 | • | | | | | |
| 122 | 1.716 | 5 | | | | | | • |
| 123 | 1.729 | 5 | | | | | | • |
| 124 | 0.475 | 4 | | | | | | • |
| 125 | 0.507 | 4 | • | | | | | |
| 126 | 0.520 | 4 | | • | | | | |
| 127 | 0.667 | 4 | | | | | | |
| 128 | 0.721 | 4 | | | | | | |
| 129 | 0.832 | 4 | | | | | | |
| 130 | 0.936 | 4 | | | | • | | |
| 131 | 1.061 | 4 | | | • | | | |
| 132 | 1.109 | 4 | | | • | | | |
| 133 | 1.153 | 4 | | • | • | | | |
| 134 | 1.173 | 4 | | | | | | |
| 135 | 1.277 | 4 | | | • | | | |
| 136 | 1.328 | 4 | | | | | | |
| 137 | 1.580 | 4 | | | • | | | |
| 138 | 1.927 | 4 | | | | | | |
| 139 | 1.979 | 4 | | | • | | | |
| 140 | 2.000 | 4 | | | | | | |
| 141 | 0.319 | 3 | | | | | | |
| 142 | 0.375 | 3 | | | • | | | |
| 143 | 0.609 | 3 | | | | | | |
| 144 | 0.307 | 3 | | | | | | |
| 145 | 0.346 | 3 | | | • | | | |
| 146 | 0.353 | 3 | | | | | | |
| 147 | 0.487 | 3 | | | | | | |
| 148 | 0.727 | 3 | | | | | | |
| 149 | 0.739 | 3 | | | | • | | |
| 150 | 0.790 | 3 | | • | • | | | |
| 151 | 0.821 | 3 | • | | | | | |
| 152 | 0.828 | 3 | • | | | | | |
| 153 | 1.083 | 3 | | | | | | |
| 154 | 1.119 | 3 | | | | | | |
| 155 | 1.123 | 3 | | | | | | |
| 156 | 1.195 | 3 | | | | | | |
| 157 | 1.309 | 3 | | | | | | |
| 158 | 1.404 | 3 | • | | | | | |
| 159 | 1.448 | 3 | | | • | | | |
| 160 | 1.538 | 3 | | | | | | |
| 161 | 1.856 | 3 | | | | | | |
| 162 | 1.953 | 3 | | | | | | |
| 163 | 2.084 | 3 | | | | | | |
| 164 | 2.091 | 3 | | | | | | |
| 165 | 0.512 | 2 | | | | | | |
| 166 | 0.572 | 2 | | | | | | |
| 167 | 1.809 | 2 | | | | | | |
| 168 | 1.900 | 2 | | | | | | |
| 169 | 0.237 | 2 | | | | | | |
| 170 | 0.261 | 2 | | • | | | • | |
| 171 | 0.337 | 2 | | | | | | |
| 172 | 0.341 | 2 | | • | | | • | |
| 173 | 0.342 | 2 | | | | | | |

Table F-4 (continued)

| | | CENSUS REGION | NORTHEAST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MIDDLE ATLANTIC | | | NEW ENGLAND | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences in Samples [a] | | | | | | |
| 174 | 0.382 | 2 | | | | | | |
| 175 | 0.413 | 2 | | | | | | |
| 176 | 0.435 | 2 | | | | | | |
| 177 | 0.450 | 2 | | | | | | |
| 178 | 0.489 | 2 | | | | | | |
| 179 | 0.496 | 2 | | | | | | |
| 180 | 0.552 | 2 | | | | | | |
| 181 | 0.599 | 2 | • | | | • | | |
| 182 | 0.614 | 2 | | • | • | | | |
| 183 | 0.677 | 2 | | • | • | | | |
| 184 | 0.758 | 2 | | | | | | |
| 185 | 0.791 | 2 | | | | | | |
| 186 | 0.908 | 2 | | | | | | |
| 187 | 0.921 | 2 | | | | | | |
| 188 | 0.957 | 2 | | | | | | |
| 189 | 1.059 | 2 | | | | | | |
| 190 | 1.261 | 2 | | | | | | |
| 191 | 1.283 | 2 | | • | | | | |
| 192 | 1.291 | 2 | | | | | | |
| 193 | 1.297 | 2 | | | | | | |
| 194 | 1.353 | 2 | | | | | | |
| 195 | 1.463 | 2 | | | • | | | |
| 196 | 1.507 | 2 | | | • | | | |
| 197 | 1.516 | 2 | | | | | | • |
| 198 | 1.525 | 2 | | | • | | | |
| 199 | 1.586 | 2 | | | | | | |
| 200 | 1.594 | 2 | | | | | | |
| 201 | 1.673 | 2 | | | | | | |
| 202 | 1.866 | 2 | | | • | | | |
| 203 | 1.931 | 2 | | | | | | |
| 204 | 2.030 | 2 | | | | | | |
| 205 | 2.102 | 2 | | | | | | |
| 206 | 0.333 | 1 | • | | | | | |
| 207 | 0.544 | 1 | | | | | | |
| 208 | 0.199 | 1 | | | | | | |
| 209 | 0.203 | 1 | | | | | | |
| 210 | 0.216 | 1 | | | | • | | |
| 211 | 0.221 | 1 | | • | | | | |
| 212 | 0.239 | 1 | | | | | | |
| 213 | 0.240 | 1 | | | | | | |
| 214 | 0.241 | 1 | | | | | | |
| 215 | 0.254 | 1 | | | | | | |
| 216 | 0.266 | 1 | | | | | | |
| 217 | 0.268 | 1 | | | | | | |
| 218 | 0.283 | 1 | • | | | | | |
| 219 | 0.285 | 1 | | | | • | | |
| 220 | 0.293 | 1 | | | | | | |
| 221 | 0.300 | 1 | • | | | | | |
| 222 | 0.327 | 1 | | | | | | |
| 223 | 0.344 | 1 | | | | | | |
| 224 | 0.352 | 1 | | | | | | |
| 225 | 0.353 | 1 | | | | | | |
| 226 | 0.358 | 1 | | | | | | |
| 227 | 0.359 | 1 | | | | | • | |
| 228 | 0.362 | 1 | | | | | | |
| 229 | 0.365 | 1 | | | | | | • |
| 230 | 0.370 | 1 | | | | | | • |
| 231 | 0.371 | 1 | | | | | | |

Table F-4 (continued)

| | | CENSUS REGION | NORTHEAST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MIDDLE ATLANTIC | | | NEW ENGLAND | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences in Samples[a] | | | | | | |
| 232 | 0.372 | 1 | | | | | | |
| 233 | 0.394 | 1 | | | | | | |
| 234 | 0.405 | 1 | | | | | | |
| 235 | 0.414 | 1 | | | | | | |
| 236 | 0.419 | 1 | | | | | | |
| 237 | 0.421 | 1 | | | | | | |
| 238 | 0.422 | 1 | | | | | | |
| 239 | 0.455 | 1 | | | | | | |
| 240 | 0.463 | 1 | | | | | | |
| 241 | 0.465 | 1 | | | | | | |
| 242 | 0.504 | 1 | | | | | | |
| 243 | 0.507 | 1 | | | | | | |
| 244 | 0.510 | 1 | | | | | | |
| 245 | 0.516 | 1 | | | | | | |
| 246 | 0.545 | 1 | | | | | | |
| 247 | 0.575 | 1 | | | | | | |
| 248 | 0.584 | 1 | | | | | | |
| 249 | 0.652 | 1 | | | | | | |
| 250 | 0.653 | 1 | | | | | | |
| 251 | 0.678 | 1 | | | | | | |
| 252 | 0.683 | 1 | | | | | | |
| 253 | 0.711 | 1 | | | | | | |
| 254 | 0.744 | 1 | | | | | | |
| 255 | 0.745 | 1 | | | | | | |
| 256 | 0.767 | 1 | | | | | | |
| 257 | 0.771 | 1 | | | | | | |
| 258 | 0.775 | 1 | | | | | | |
| 259 | 0.779 | 1 | | | | | | |
| 260 | 0.786 | 1 | | | | | | |
| 261 | 0.787 | 1 | | | | | | |
| 262 | 0.821 | 1 | | | | | | |
| 263 | 0.915 | 1 | | | | | | |
| 264 | 0.929 | 1 | | | | | | |
| 265 | 0.945 | 1 | | | | | | |
| 266 | 0.960 | 1 | | | | | | |
| 267 | 0.988 | 1 | | | | | | |
| 268 | 1.017 | 1 | | | | | | |
| 269 | 1.018 | 1 | | | | | | |
| 270 | 1.037 | 1 | | | | | | |
| 271 | 1.046 | 1 | | | | | | |
| 272 | 1.061 | 1 | | | | | | |
| 273 | 1.063 | 1 | | | | | | |
| 274 | 1.070 | 1 | | | | | | |
| 275 | 1.089 | 1 | | | | | | |
| 276 | 1.091 | 1 | | | | | | |
| 277 | 1.112 | 1 | | | | | | |
| 278 | 1.121 | 1 | | | | | | |
| 279 | 1.140 | 1 | | | | | | |
| 280 | 1.174 | 1 | | | | | | |
| 281 | 1.180 | 1 | | | | | | |
| 282 | 1.197 | 1 | | | | | | |
| 283 | 1.204 | 1 | | | | | | |
| 284 | 1.204 | 1 | | | | | | |
| 285 | 1.218 | 1 | | | | | | |
| 286 | 1.223 | 1 | | | | | | |
| 287 | 1.226 | 1 | | | | | | |
| 288 | 1.243 | 1 | | | | | | |
| 289 | 1.248 | 1 | | | | | | |

Table F-4 (concluded)

| | | CENSUS REGION | NORTHEAST | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | CENSUS DIVISION | MIDDLE ATLANTIC | | | NEW ENGLAND | | |
| | | AGE GROUP | 0-14 | 15-44 | 45+ | 0-14 | 15-44 | 45+ |
| Index | Average RRT | Number of Occurrences In Samples[a] | | | | | | |
| 290 | 1.289 | 1 | | | | | | |
| 291 | 1.291 | 1 | | | | | | |
| 292 | 1.296 | 1 | | | | | | |
| 293 | 1.309 | 1 | | | | | | |
| 294 | 1.311 | 1 | | | | | | |
| 295 | 1.335 | 1 | | | | | | |
| 296 | 1.342 | 1 | | | | | | |
| 297 | 1.346 | 1 | | | | | | |
| 298 | 1.348 | 1 | | | | | | |
| 299 | 1.350 | 1 | | | | | | |
| 300 | 1.363 | 1 | | | | | | |
| 301 | 1.366 | 1 | | | | | | |
| 302 | 1.377 | 1 | | | | | | |
| 303 | 1.384 | 1 | | | | | | |
| 304 | 1.386 | 1 | | | | | | |
| 305 | 1.390 | 1 | | | | | | |
| 306 | 1.403 | 1 | | | | | | |
| 307 | 1.421 | 1 | | | | | | |
| 308 | 1.422 | 1 | | | | | | |
| 309 | 1.427 | 1 | | | | | | |
| 310 | 1.433 | 1 | | | | | | |
| 311 | 1.435 | 1 | | | | | | |
| 312 | 1.457 | 1 | | | | | | |
| 313 | 1.481 | 1 | | | | | | |
| 314 | 1.492 | 1 | | | | | | |
| 315 | 1.495 | 1 | | | | | | |
| 316 | 1.499 | 1 | | | | | | |
| 317 | 1.523 | 1 | | | | | | |
| 318 | 1.525 | 1 | | | | | | |
| 319 | 1.531 | 1 | | | | | | |
| 320 | 1.545 | 1 | | | | | | |
| 321 | 1.562 | 1 | | | | | | |
| 322 | 1.583 | 1 | | | | | | |
| 323 | 1.584 | 1 | | | | | | |
| 324 | 1.589 | 1 | | | | | | |
| 325 | 1.596 | 1 | | | | | | |
| 326 | 1.602 | 1 | | | | | | |
| 327 | 1.606 | 1 | | | | | | |
| 328 | 1.607 | 1 | | | | | | |
| 329 | 1.671 | 1 | | | | | | |
| 330 | 1.695 | 1 | | | | | | |
| 331 | 1.740 | 1 | | | | | | |
| 332 | 1.761 | 1 | | | | | | |
| 333 | 1.762 | 1 | | | | | | |
| 334 | 1.776 | 1 | | | | | | |
| 335 | 1.839 | 1 | | | | | | |
| 336 | 1.907 | 1 | | | | | | |
| 337 | 1.964 | 1 | | | | | | |
| 338 | 1.973 | 1 | | | | | | |
| 339 | 1.980 | 1 | | | | | | |
| 340 | 1.991 | 1 | | | | | | |
| 341 | 2.053 | 1 | | | | | | |
| 342 | 2.063 | 1 | | | | | | |
| 343 | 2.107 | 1 | | | | | | |

[a]Total number of occurrences from all sample analyses (four census regions and nine census divisions).

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APPENDIX G

LISTING OF THE ACORN PROGRAM

Trace of procedure ACORN

```
*
* [    *** PROCEDURE ACORN...  J. ONSTOT
*
* LATEST REVISION 7/25/86
* ]
* EDLL $(-;W;E)
* SET1 #1;SET7 $1;SET8 $1
* IS
* FTP(DE;1:PRIN.91/N;E)
* PHEAD/KX
* DOONE
* PRIN/KX(F;E)
* FTP(DE;1:$1.91/N;RE;1:PRIN.91;1:$1.91;E)
*
EDLL $ (-;W;E)
SET1 #1
SET7 $1
SET8 $1
IS
   *
   * [  FIND THE INTERNAL STANDARD...MUST BE THE FIRST ENTRY IN LIBRARY
   * ]
   *
   * SETL SE;SET9 $8;SET8 TEMP;GETL
   * CHRO/O(I;R;F1;#;$,&;G-30,30;N3,3;A1<;D-30,30;E)
   * IS1
   * EDQL ,$9(U*100;W;E)
   * EDQL $9,FOUND(W;E)
   * SETS $9
   * QUAN(D,R;S;T;E)
   *
   SETL SE
   SET9 $8
   SET8 TEMP
   GETL
   CHRO  (I;R;F1;#;$;&;G-30,30;N3,3;A1<;D-30,30;E)/O
   IS1
      * IS2
      * ERASE;[     THE INBTERNAL STANDARD WAS NOT FOUND!!!   ]
      * QUIT
```

```
      *
      IS2
         * IF IS2!28,IS1#1
         * RETU IS1
         *
         IF IS2!28,IS1#1
         RETU IS1
      ERASE
      QUIT
      Trace of IS1 aborted.
   EDQL ,$9 (U*100;W;E)
   EDQL $9,FOUND (W;E)
   SETB $9
   QUAN  (D;R;S;T;E)
FTP  (DE;1:PRIN.91/N;E)
PHEAD /KX
   * PRIN(@HE)
   *
   PRIN  (@HE)
   @HE

      : T;ACORN LIBRARY SEARCH RESULTS;T20;  ;T;FILENAME:  ;#1;C;C
      : T8;PEAK;T8;SCAN;T8;PEAKS;T9;BEST;T9;BEST;T9;BEST;T13;LIBRARY;T12;CU
      : T8;NO. ;T8;NO. ;T8;/SCAN;T9;NBS;T9;NBS;T9;NBS;T13;CHOICE;T12;ENTRY;C
      : T24;  ;T9;FIT;T9;PURITY;T9;ENTRY;C;C
      : E
      :
      T;ACORN LIBRARY SEARCH RESULTS;T20;  ;T;FILENAME:  ;#1;C;C
      T8;PEAK;T8;SCAN;T8;PEAKS;T9;BEST;T9;BEST;T9;BEST;T13;LIBRARY;T12;CURR=
      T8;NO. ;T8;NO. ;T8;/SCAN;T9;NBS;T9;NBS;T9;NBS;T13;CHOICE;T12;ENTRY;C
      T24;  ;T9;FIT;T9;PURITY;T9;ENTRY;C;C
      E


DOONE
   * GETS;SET12 !1;SET11 !7
   * [ SAVE CURRENT SCAN# IN !12, .SL ENTRY NO.  IN !11
   * ]
   * EDLL FOUND(-;W;E)
   * DOMAS   [ PRINT NO.  OF MASS PEAKS TO STATUS REPORT
```

```
*  ]
* SET4 SE;LIBTEST
* INLIB [ MAIN LIBRARY SEARCH ROUTINTE ]
* ERASE;[  ADD THE CORRESPONDING SE ENTRY NO.  TO $.LL
* ]
* EDLL $($;W;E)
* SET1 !12;SETS $;SET7 !11
* LOOP
*
GETS
SET12 !1
SET11 !7
EDLL FOUND (-;W;E)
DOMAS
   * ENMA/OV
   * SET13 !18
   *
   ENMA /OV
   SET13 !18
SET4 SE
LIBTES
   * SETL FIT
   * LIBFIT/V
   * IF !26
   * SETL PURITY
   * LIBPUR/V
   * IF !26
   * RUN INSED
   *
   SETL FIT
   LIBFIT /V
      * LIBR(T800;X2<;D;E)
      *
      LIBR  (T800;X2<;D;E)
   IF !26
   SETL PURITY
   LIBPUR /V
      * LIBR(T400;X<;D;E)
      *
```

```
      LIBR  (T400;X<;D;E)
   IF !26
   RUN INSED
INLIB
   *
   * INSEED
   * INNB
   * [  NOT FOUND IN SEED OR NB LIBRARY. ADDING TO SEED...]
   * LIBR(ED;D;#SE;I';UNIDENTIFIED PEAK;;;;;;;;;;;SE;1;;;E;E)
   * NOTFND
   * SET4 SE
   * SET4 !24
   * LINEEND
   * UPRES
   *
   INSEED
      *
      * IF !4
      * ERASE;[ THE PEAK WAS LOCATED IN THE SEED LIBRARY!!!
      * ]
      * SET10 !4
      * EDLB ,ZZ(I!1;E)
      * DOMAS
      * LIBR/V($ZZ;X;J1;D;E)
      * SET4 !10
      * SEEDFND
      * SET8 TEMP
      * CHRO/O(@DC)
      * IF !28
      * EDQL ,$(U*100;A;E)
      * SET8 $
      * RETU INLIB
      *
      IF !4
      ERASE
      SET10 !4
      EDLB ,ZZ (I!1;E)
      DOMAS
         * ENMA/OV
         * SET13 !18
         *
```

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```
      ENMA /OV
      SET13 !18
   LIBR  ($ZZ;X;J1;D;E)/V
   SET4 !10
   SEEDFN
      * PRIN/KX(@FS)
      *
      PRIN  (@FS)/KX
      @FS

         :
         : !11,4;T4;  ;!12,4;T4;  ;!13,4;T4;  ;!18,4;T4;  ;!17,4;T4;  ;
         : T12;  ;T;SEED;T10;  ;!4,3;C;E
         :

         !11,4;T4;  ;!12,4;T4;  ;!13,4;T4;  ;!18,4;T4;  ;!17,4;T4;  ;
         T12;  ;T;SEED;T10;  ;!4,3;C;E


   SET8 TEMP
   CHRO  (@DO)/O
   @DO

      :  I;#;G-2,2;N1,1;U20,2;A1<;D-20,20;E

      I;#;G-2,2;N1,1;U20,2;A1<;D-20,20;E


   IF !28
   EDQL ,$ (U*100,A;E)
   SET8 $
   RETU INLIB
INNB
   *
   * SETL FOUND;SET4 NB
   * LIBNB/V
   * IF INNB!26,INNB
   * IF INNB!18,INNB#900
   * IF INNB!17,INNB#600
   * [ MATCH FOUND IN NBS LIBRARY
   * ]
   * SETL;GETL
   * NBSFND
   * EDLB ,SE(D;I';;;;;;;;;;;;SE,1;;;E;E)
```

```
* SET4 SE;SET4 !24;
* LINEEND
* UPRES      [UPDATE RESPONSE FACTOR FOR NEW SE ENTRY
* ]
*
* RETU INLIB
*
SETL FOUND
SET4 NB
LIBNB /V
   * LIBR(X;D;J1<;E)
   *
   LIBR  (X;D;J1<;E)
IF INNB!26,INNB
IF INNB!18,INNB#900
IF INNB!17,INNB#600
SETL
GETL
NBSFND
   * PRIN/KX(@FN)
   *
   PRIN  (@FN)/KX
   @FN

      :
      : !11,4;T4;  ;!12,4;T4;  ;!13,4;T4;  ;!18,4;T4;  ;!17,4;T4;  ;
      : !4,5;T8;  ;T;NBS;E
      :

      !11,4;T4;  ;!12,4;T4;  ;!13,4;T4;  ;!18,4;T4;  ;!17,4;T4;  ;
      !4,5;T8;  ;T;NBS;E


EDLB ,SE (D;I';;;;;;;;;;;;SE,1;;;E;E)
SET4 SE
SET4 !24
LINEEN
```

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```
        * PRIN/KX(@FE)
        *
        PRIN  (@FE)/KX
        @FE

            : T10;  ; !24; C; E

            T10;  ; !24; C; E


    UPRES
        *
        * SET8 TEMP
        * CHRO/O(I; #; N1, 1; G-2, 2; U20, 2; A1<; D-10, 10; E)
        * IF !28
        * EDQL, FOUND(U*100; A; E)
        * QUAN FOUND(D; R; S; T; E)   [ NEED THIS TO SET LIB RRT FOR FUTUR
        * EDQL FOUND (-2; W; E)
        * EDQL , $(U*100; A; E)
        *
        * SET8 $
        *
        SET8 TEMP
        CHRO  (I; #; N1, 1; G-2, 2; U20, 2; A1<; D-10, 10; E)/O
        IF !28
        EDQL , FOUND (U*100; A; E)
        QUAN FOUND (D; R; S; T; E)
        EDQL FOUND (-2; W; E)
        EDQL , $ (U*100; A; E)
        SET8 $
    RETU INLIB
LIBR  (ED; D; #SE; I'; UNIDENTIFIED PEAK; ; ; ; ; ; ; ; ; ; SE, 1; ; ; E; E)
NOTFND
    * PRIN/KX(@NF)
    *
    PRIN  (@NF)/KX
    @NF
```

```
:
: !11,4;T4; ;!12,4;T4; ;!13,4;T4; ;!18,4;T4; ;!17,4;T4; ;
: !4,5;T7; ;T;UNKN;E
:

!11,4;T4; ;!12,4;T4; ;!13,4;T4; ;!18,4;T4; ;!17,4;T4; ;
!4,5;T7; ;T;UNKN;E


SET4 SE
SET4 !24
LINEEN
   * PRIN/KX(@FE)
   *
   PRIN  (@FE)/KX
   @FE

      : T10; ;!24;C;E
      :
      T10; ;!24;C;E


UPRES
   *
   * SET8 TEMP
   * CHRO/O(I;#;N1,1;G-2,2;U20,2;A1<;D-10,10;E)
   * IF !28
   * EDQL,FOUND(U*100;A;E)
   * QUAN FOUND(D;R;S;T;E)  [ NEED THIS TO SET LIB RRT FOR FUTURE SEA
   * EDQL FOUND (-2;W;E)
   * EDQL ,$(U*100;A;E)
   *
   * SET8 $
   *
   SET8 TEMP
   CHRO  (I;#;N1,1;G-2,2;U20,2;A1<;D-10,10;E)/O
   IF !28
   EDQL ,FOUND (U*100;A;E)
   QUAN FOUND (D;R;S;T;E)
   EDQL FOUND (-2;W;E)
   EDQL ,$ (U*100;A;E)
```

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```
        SET8 $
    ERASE
    EDLL $ ($;W;E)
    SET1 !12
    SETS $
    SET7 !11
    LOOP
PRIN  (F;E)/KX
FTP  (DE;1:$1.91/N;RE;1:PRIN.91;1:$1.91;E)
```

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