LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD100621\
Data File : VD070597.D
Acq On : 06 Oct 2021 16:57
Operator : VA/SY
Sample : M4081-02
Misc : 4.76G/5.00ml/MSVOA_D/SOIL
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** 356

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D100521S.M
Title : SW846 8260

Signal : TIC: VD070597.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.961 | 508 | 517 | 523 | rBV6 | 11022 | 35797 | 1.25% | 0.184% |
| 2 | 7.908 | 1008 | 1018 | 1024 | rBV | 328999 | 808219 | 28.16% | 4.150% |
| 3 | 7.979 | 1024 | 1030 | 1039 | rVV | 505310 | 1163405 | 40.54% | 5.973% |
| 4 | 8.061 | 1039 | 1044 | 1054 | rVB6 | 11953 | 32192 | 1.12% | 0.165% |
| 5 | 8.185 | 1057 | 1065 | 1073 | rBV3 | 36162 | 79206 | 2.76% | 0.407% |
| 6 | 8.326 | 1080 | 1089 | 1100 | rBV | 308377 | 696301 | 24.26% | 3.575% |
| 7 | 8.450 | 1104 | 1110 | 1118 | rVV4 | 15720 | 39985 | 1.39% | 0.205% |
| 8 | 8.538 | 1118 | 1125 | 1129 | rVV5 | 13897 | 32894 | 1.15% | 0.169% |
| 9 | 8.602 | 1129 | 1136 | 1143 | rVV6 | 20729 | 47753 | 1.66% | 0.245% |
| 10 | 8.714 | 1147 | 1155 | 1164 | rVB4 | 16312 | 34777 | 1.21% | 0.179% |
| 11 | 8.861 | 1171 | 1180 | 1197 | rBV | 840558 | 1674117 | 58.33% | 8.595% |
| 12 | 9.355 | 1249 | 1264 | 1270 | rBV2 | 97134 | 262445 | 9.14% | 1.347% |
| 13 | 9.532 | 1288 | 1294 | 1300 | rBV4 | 19073 | 34574 | 1.20% | 0.178% |
| 14 | 9.620 | 1300 | 1309 | 1316 | rVB4 | 30097 | 66334 | 2.31% | 0.341% |
| 15 | 9.767 | 1324 | 1334 | 1342 | rBV2 | 39247 | 81032 | 2.82% | 0.416% |
| 16 | 9.973 | 1363 | 1369 | 1382 | rVB3 | 99598 | 243905 | 8.50% | 1.252% |
| 17 | 10.108 | 1382 | 1392 | 1405 | rBV2 | 71598 | 180374 | 6.28% | 0.926% |
| 18 | 10.332 | 1422 | 1430 | 1446 | rBV | 1549756 | 2870008 | 100.00% | 14.735% |
| 19 | 10.455 | 1446 | 1451 | 1454 | rVV4 | 25769 | 47441 | 1.65% | 0.244% |
| 20 | 10.520 | 1454 | 1462 | 1469 | rVB6 | 84119 | 207705 | 7.24% | 1.066% |
| 21 | 10.632 | 1475 | 1481 | 1483 | rBV4 | 18205 | 30067 | 1.05% | 0.154% |
| 22 | 10.673 | 1483 | 1488 | 1496 | rVB2 | 58723 | 111765 | 3.89% | 0.574% |
| 23 | 10.767 | 1496 | 1504 | 1510 | rBV6 | 44680 | 109530 | 3.82% | 0.562% |
| 24 | 10.855 | 1516 | 1519 | 1524 | rVB2 | 28856 | 41592 | 1.45% | 0.214% |
| 25 | 10.949 | 1524 | 1535 | 1540 | rBV | 85933 | 153309 | 5.34% | 0.787% |
| 26 | 11.044 | 1540 | 1551 | 1559 | rBV6 | 37889 | 110951 | 3.87% | 0.570% |
| 27 | 11.120 | 1559 | 1564 | 1566 | rVV3 | 31549 | 52321 | 1.82% | 0.269% |
| 28 | 11.185 | 1570 | 1575 | 1579 | rVV2 | 83183 | 163601 | 5.70% | 0.840% |
| 29 | 11.238 | 1579 | 1584 | 1590 | rVV2 | 154661 | 296981 | 10.35% | 1.525% |
| 30 | 11.296 | 1590 | 1594 | 1597 | rVV5 | 22863 | 35148 | 1.22% | 0.180% |
| 31 | 11.344 | 1597 | 1602 | 1607 | rVV4 | 61815 | 108029 | 3.76% | 0.555% |
| 32 | 11.426 | 1607 | 1616 | 1627 | rVB5 | 109164 | 336674 | 11.73% | 1.729% |
| 33 | 11.520 | 1627 | 1632 | 1639 | rBV2 | 129086 | 230654 | 8.04% | 1.184% |
| 34 | 11.638 | 1645 | 1652 | 1664 | rVB | 1281797 | 2187325 | 76.21% | 11.230% |
| 35 | 11.767 | 1671 | 1674 | 1678 | rVV5 | 31710 | 54998 | 1.92% | 0.282% |
| 36 | 11.814 | 1678 | 1682 | 1688 | rVV6 | 63386 | 145198 | 5.06% | 0.745% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD100621\
Data File : VD070597.D
Acq On : 06 Oct 2021 16:57
Operator : VA/SY
Sample : M4081-02
Misc : 4.76G/5.00ml/MSVOA_D/SOIL
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** 356

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D100521S.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 11.879 | 1688 | 1693 | 1697 | rVV | 86518 | 173731 | 6.05% | 0.892% |
| 38 | 11.920 | 1697 | 1700 | 1705 | rVB3 | 70167 | 107991 | 3.76% | 0.554% |
| 39 | 11.979 | 1705 | 1710 | 1714 | rBV6 | 19209 | 29847 | 1.04% | 0.153% |
| 40 | 12.143 | 1731 | 1738 | 1745 | rBV4 | 90680 | 204208 | 7.12% | 1.048% |
| 41 | 12.255 | 1750 | 1757 | 1762 | rVB | 123515 | 206454 | 7.19% | 1.060% |
| 42 | 12.349 | 1762 | 1773 | 1774 | rBV4 | 82673 | 177776 | 6.19% | 0.913% |
| 43 | 12.385 | 1775 | 1779 | 1787 | rVB5 | 85699 | 200639 | 6.99% | 1.030% |
| 44 | 12.543 | 1797 | 1806 | 1814 | rVB5 | 67736 | 205696 | 7.17% | 1.056% |
| 45 | 12.620 | 1814 | 1819 | 1829 | rVB | 1002765 | 1711056 | 59.62% | 8.785% |
| 46 | 12.708 | 1830 | 1834 | 1838 | rVB7 | 24020 | 34304 | 1.20% | 0.176% |
| 47 | 12.785 | 1842 | 1847 | 1854 | rVB4 | 83799 | 154460 | 5.38% | 0.793% |
| 48 | 12.867 | 1854 | 1861 | 1866 | rBV7 | 28371 | 70568 | 2.46% | 0.362% |
| 49 | 12.938 | 1866 | 1873 | 1880 | rVV7 | 98562 | 275796 | 9.61% | 1.416% |
| 50 | 12.996 | 1880 | 1883 | 1888 | rVB4 | 47598 | 71733 | 2.50% | 0.368% |
| 51 | 13.085 | 1894 | 1898 | 1902 | rBV5 | 28749 | 41165 | 1.43% | 0.211% |
| 52 | 13.132 | 1902 | 1906 | 1909 | rVV5 | 22647 | 41038 | 1.43% | 0.211% |
| 53 | 13.173 | 1909 | 1913 | 1921 | rVB3 | 99638 | 167768 | 5.85% | 0.861% |
| 54 | 13.449 | 1953 | 1960 | 1965 | rBV5 | 67328 | 150690 | 5.25% | 0.774% |
| 55 | 13.490 | 1965 | 1967 | 1971 | rVV4 | 44244 | 60993 | 2.13% | 0.313% |
| 56 | 13.561 | 1973 | 1979 | 1988 | rVB | 1201156 | 2007890 | 69.96% | 10.309% |
| 57 | 13.885 | 2029 | 2034 | 2038 | rBV6 | 70299 | 118435 | 4.13% | 0.608% |
| 58 | 14.096 | 2064 | 2070 | 2075 | rVB7 | 31618 | 63438 | 2.21% | 0.326% |
| 59 | 14.208 | 2083 | 2089 | 2095 | rBV6 | 35538 | 73417 | 2.56% | 0.377% |
| 60 | 14.279 | 2096 | 2101 | 2106 | rVB8 | 16735 | 34305 | 1.20% | 0.176% |
| 61 | 14.390 | 2115 | 2120 | 2125 | rVV5 | 42840 | 68276 | 2.38% | 0.351% |
| 62 | 14.555 | 2144 | 2148 | 2153 | rVB7 | 26004 | 40872 | 1.42% | 0.210% |
| 63 | 14.802 | 2187 | 2190 | 2196 | rBV7 | 26444 | 59053 | 2.06% | 0.303% |
| 64 | 14.861 | 2196 | 2200 | 2207 | rVB7 | 23428 | 48124 | 1.68% | 0.247% |
| 65 | 15.079 | 2232 | 2237 | 2242 | rVB8 | 17877 | 32565 | 1.13% | 0.167% |
| 66 | 16.402 | 2457 | 2462 | 2471 | rBV10 | 14616 | 38172 | 1.33% | 0.196% |

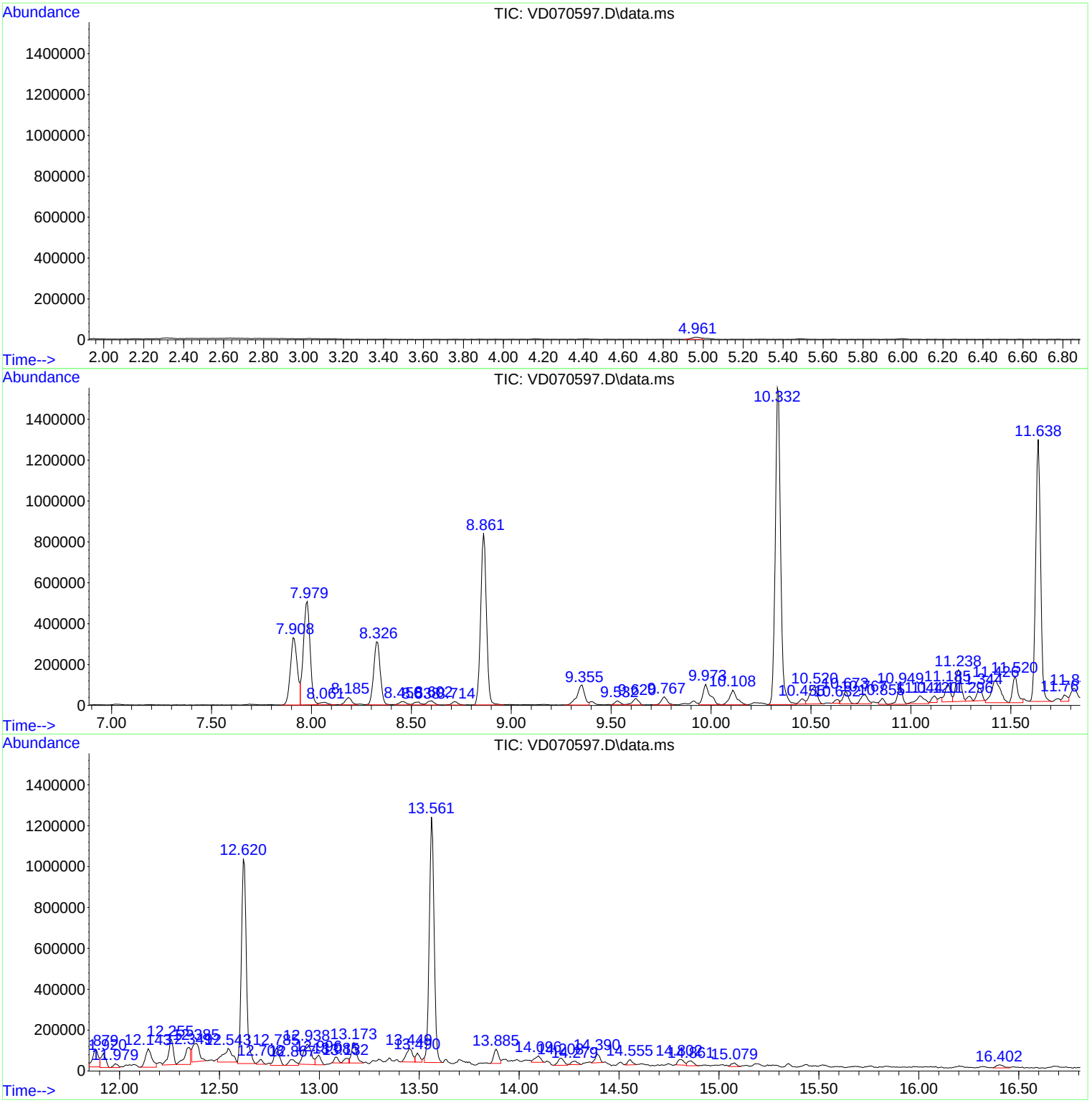
Sum of corrected areas: 19477067

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD100621\
Data File : VD070597.D
Acq On : 06 Oct 2021 16:57
Operator : VA/SY
Sample : M4081-02
Misc : 4.76G/5.00ml/MSVOA_D/SOIL
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
356

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D100521S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD100621\
Data File : VD070597.D
Acq On : 06 Oct 2021 16:57
Operator : VA/SY
Sample : M4081-02
Misc : 4.76G/5.00ml/MSVOA_D/SOIL
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
356

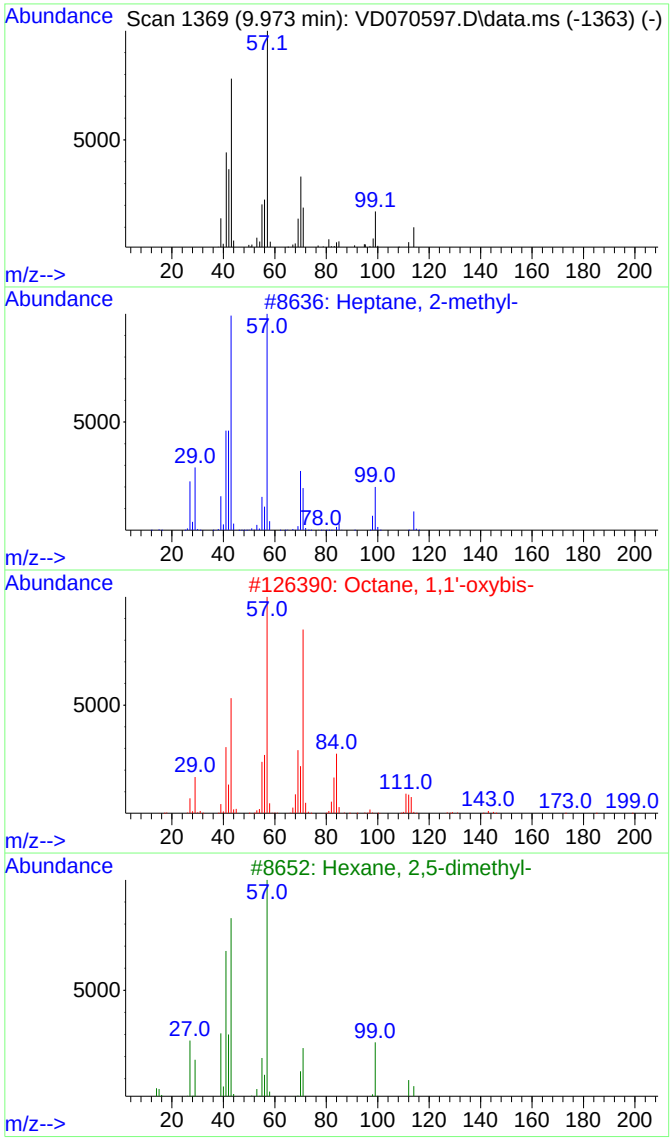
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D100521S.M
Quant Title : SW846 8260

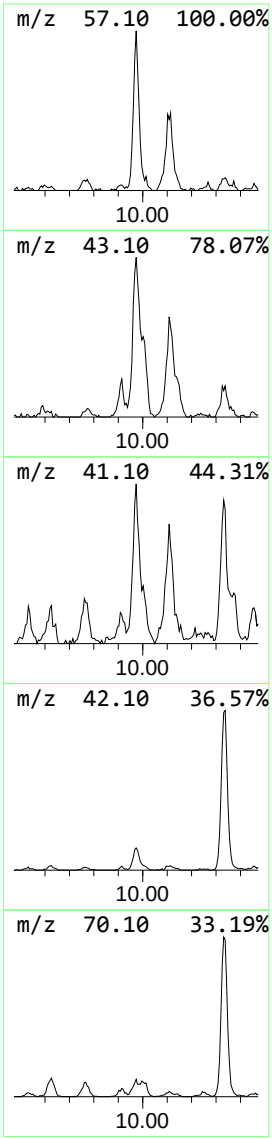
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 Heptane, 2-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.973 | 7.28 ug/l | 243905 | 1,4-Difluorobenzene | 8.861 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 2-methyl- | 114 | C8H18 | 000592-27-8 | 81 |
| 2 | Octane, 1,1'-oxybis- | 242 | C16H34O | 000629-82-3 | 47 |
| 3 | Hexane, 2,5-dimethyl- | 114 | C8H18 | 000592-13-2 | 43 |
| 4 | Heptane, 4-propyl- | 142 | C10H22 | 003178-29-8 | 38 |
| 5 | Decane, 2,5,6-trimethyl- | 184 | C13H28 | 062108-23-0 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD100621\
Data File : VD070597.D
Acq On : 06 Oct 2021 16:57
Operator : VA/SY
Sample : M4081-02
Misc : 4.76G/5.00ml/MSVOA_D/SOIL
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** 356

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D100521S.M
Quant Title : SW846 8260

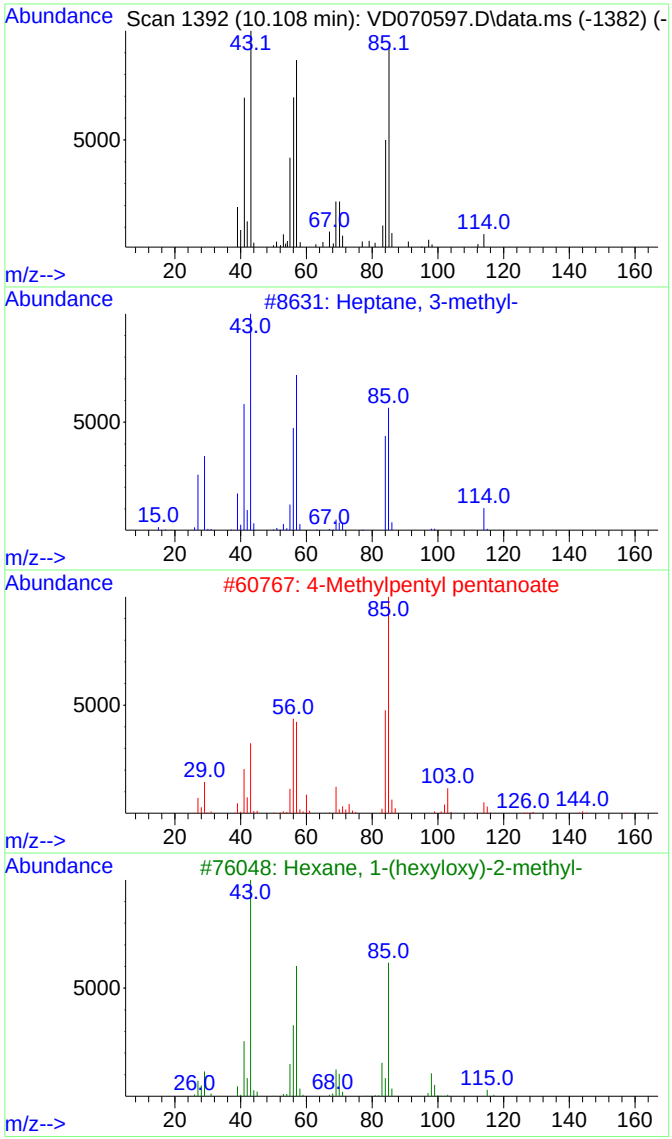
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

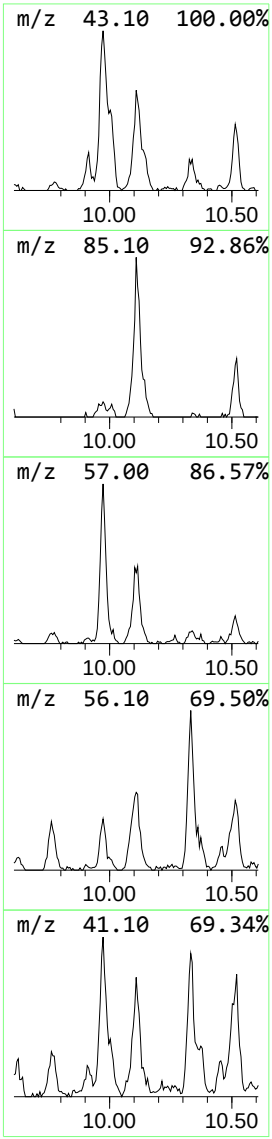
**********

Peak Number 2 Heptane, 3-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.108 | 5.39 ug/l | 180374 | 1,4-Difluorobenzene | 8.861 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 3-methyl- | 114 | C8H18 | 000589-81-1 | 83 |
| 2 | 4-Methylpentyl pentanoate | 186 | C11H22O2 | 035852-47-2 | 59 |
| 3 | Hexane, 1-(hexyloxy)-2-methyl- | 200 | C13H28O | 074421-17-3 | 59 |
| 4 | Hexane, 2-methyl- | 100 | C7H16 | 000591-76-4 | 53 |
| 5 | Hexane, 2,4-dimethyl- | 114 | C8H18 | 000589-43-5 | 53 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD100621\
Data File : VD070597.D
Acq On : 06 Oct 2021 16:57
Operator : VA/SY
Sample : M4081-02
Misc : 4.76G/5.00ml/MSVOA_D/SOIL
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
356

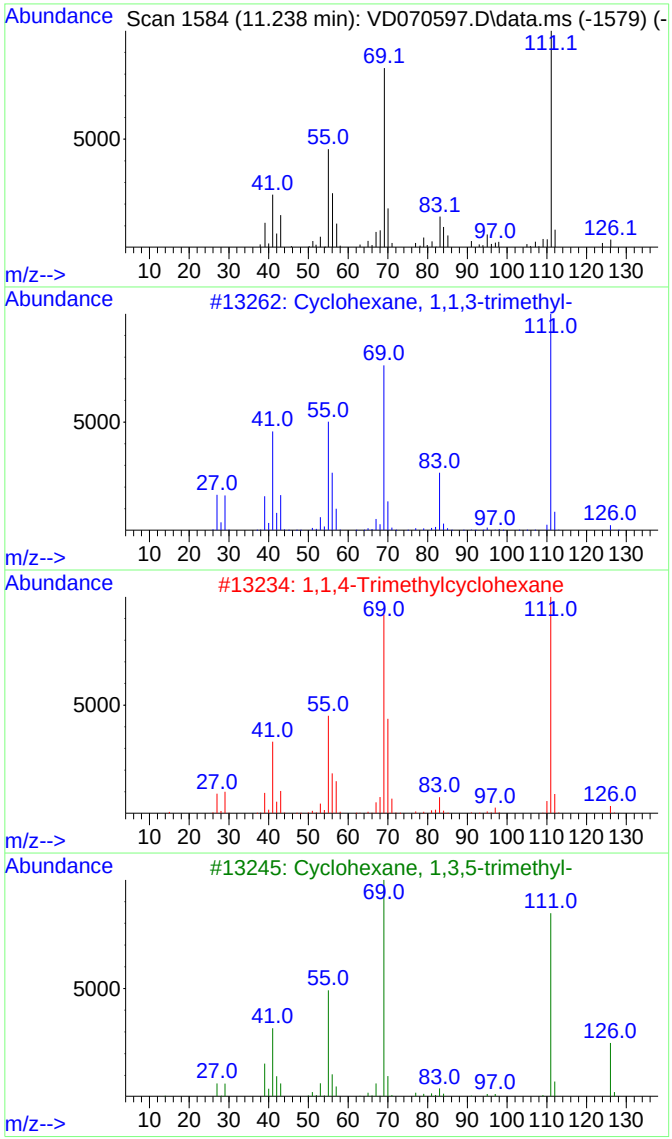
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D100521S.M
Quant Title : SW846 8260

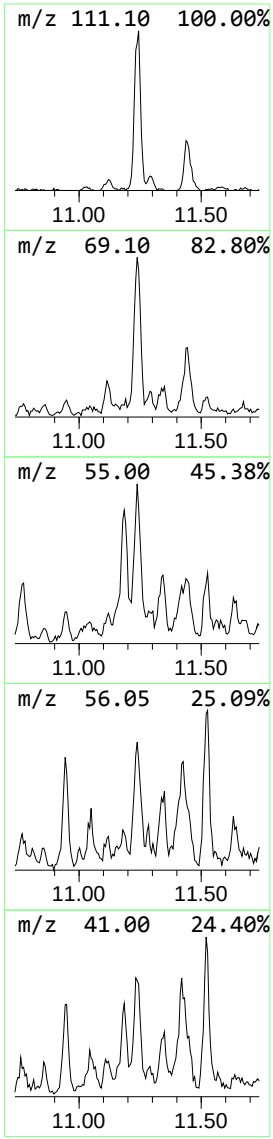
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.238 | 6.79 ug/l | 296981 | Chlorobenzene-d5 | 11.638 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 90 |
| 2 | 1,1,4-Trimethylcyclohexane | 126 | C9H18 | 007094-27-1 | 80 |
| 3 | Cyclohexane, 1,3,5-trimethyl- | 126 | C9H18 | 001839-63-0 | 64 |
| 4 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-27-3 | 64 |
| 5 | Cyclooctane, butyl- | 168 | C12H24 | 016538-93-5 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD100621\
Data File : VD070597.D
Acq On : 06 Oct 2021 16:57
Operator : VA/SY
Sample : M4081-02
Misc : 4.76G/5.00ml/MSVOA_D/SOIL
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
356

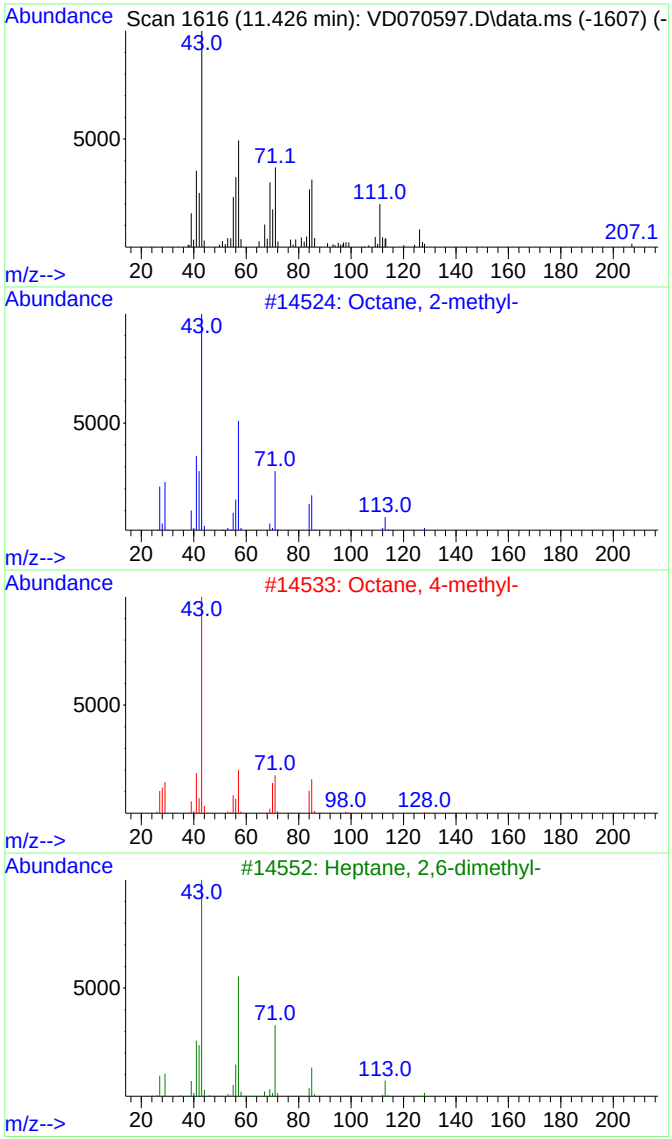
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D100521S.M
Quant Title : SW846 8260

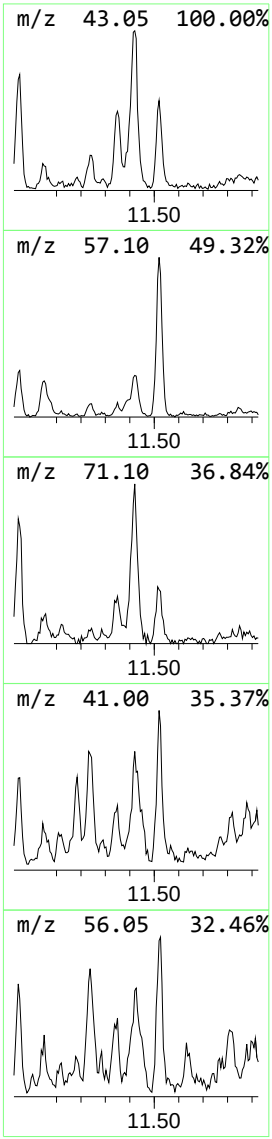
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 unknown11.426 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.426 | 7.70 ug/l | 336674 | Chlorobenzene-d5 | 11.638 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 2-methyl- | 128 | C9H20 | 003221-61-2 | 46 |
| 2 | Octane, 4-methyl- | 128 | C9H20 | 002216-34-4 | 43 |
| 3 | Heptane, 2,6-dimethyl- | 128 | C9H20 | 001072-05-5 | 38 |
| 4 | Hexane, 2,3,4-trimethyl- | 128 | C9H20 | 000921-47-1 | 38 |
| 5 | Octane | 114 | C8H18 | 000111-65-9 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD100621\
Data File : VD070597.D
Acq On : 06 Oct 2021 16:57
Operator : VA/SY
Sample : M4081-02
Misc : 4.76G/5.00ml/MSVOA_D/SOIL
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** 356

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D100521S.M
Quant Title : SW846 8260

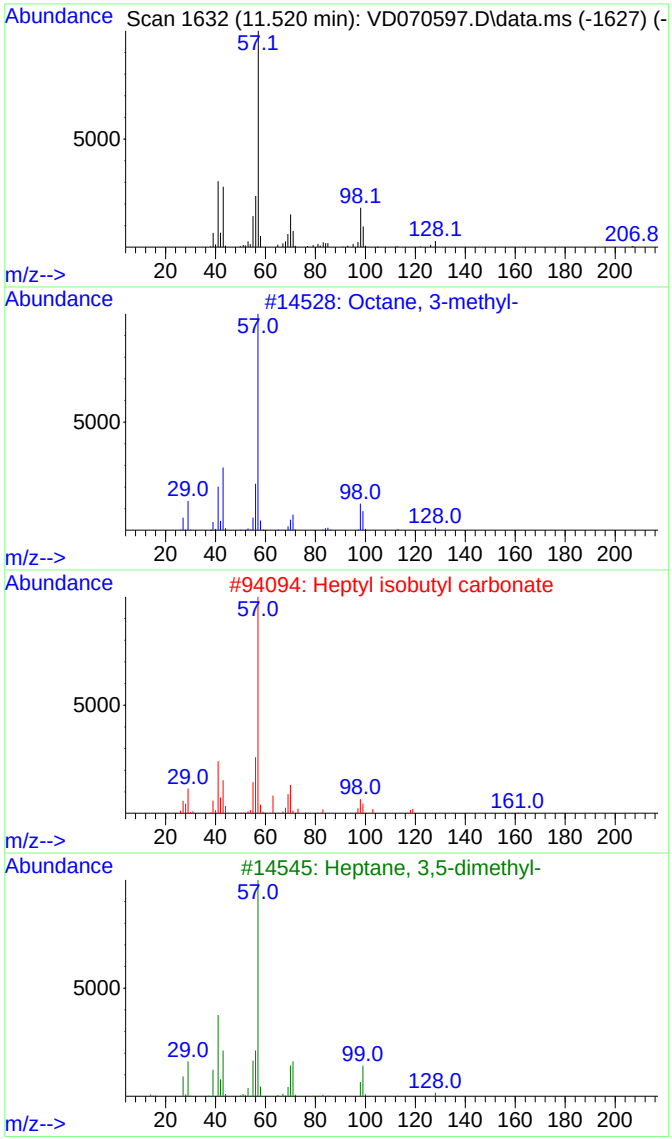
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

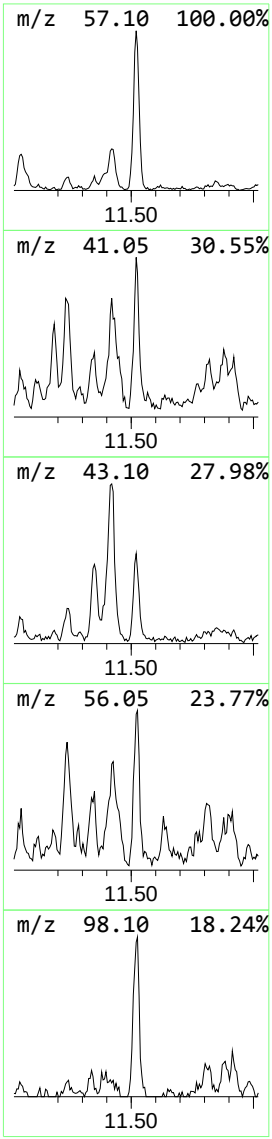
**********

Peak Number 5 Octane, 3-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.520 | 5.27 ug/l | 230654 | Chlorobenzene-d5 | 11.638 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 3-methyl- | 128 | C9H20 | 002216-33-3 | 80 |
| 2 | Heptyl isobutyl carbonate | 216 | C12H24O3 | 959068-08-7 | 59 |
| 3 | Heptane, 3,5-dimethyl- | 128 | C9H20 | 000926-82-9 | 58 |
| 4 | Carbonic acid, butyl heptyl ester | 216 | C12H24O3 | 1000314-63-4 | 53 |
| 5 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 52 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD100621\
Data File : VD070597.D
Acq On : 06 Oct 2021 16:57
Operator : VA/SY
Sample : M4081-02
Misc : 4.76G/5.00ml/MSVOA_D/SOIL
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
356

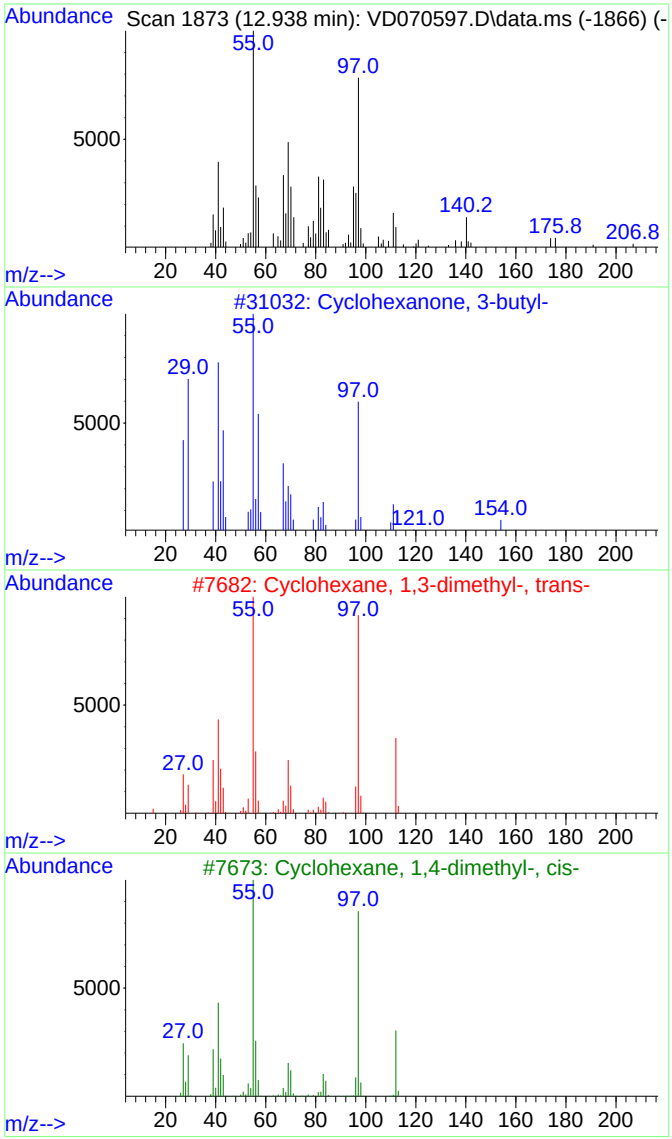
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D100521S.M
Quant Title : SW846 8260

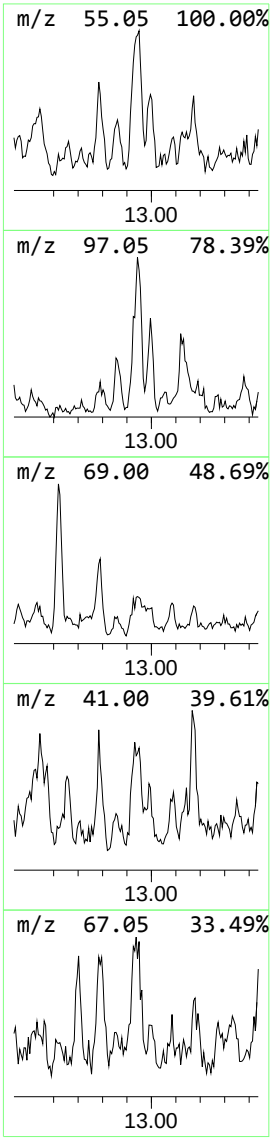
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 6 Cyclohexanone, 3-butyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.938 | 6.87 ug/l | 275796 | 1,4-Dichlorobenzene-d4 | 13.561 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanone, 3-butyl- | 154 | C10H18O | 039178-69-3 | 50 |
| 2 | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16 | 002207-03-6 | 49 |
| 3 | Cyclohexane, 1,4-dimethyl-, cis- | 112 | C8H16 | 000624-29-3 | 49 |
| 4 | m-Menthane, (1S,3R)-(+)- | 140 | C10H20 | 013837-66-6 | 47 |
| 5 | Cyclohexane, 1,4-dimethyl- | 112 | C8H16 | 000589-90-2 | 46 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD100621\
Data File : VD070597.D
Acq On : 06 Oct 2021 16:57
Operator : VA/SY
Sample : M4081-02
Misc : 4.76G/5.00ml/MSVOA_D/SOIL
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** 356

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D100521S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Heptane, 2-methyl- | 9.973 | 7.3 | ug/l | 243905 | 2 | 8.861 | 1674120 | 50.0 |
| Heptane, 3-methyl- | 10.108 | 5.4 | ug/l | 180374 | 2 | 8.861 | 1674120 | 50.0 |
| Cyclohexane, 1,... | 11.238 | 6.8 | ug/l | 296981 | 3 | 11.638 | 2187330 | 50.0 |
| unknown11.426 | 11.426 | 7.7 | ug/l | 336674 | 3 | 11.638 | 2187330 | 50.0 |
| Octane, 3-methyl- | 11.520 | 5.3 | ug/l | 230654 | 3 | 11.638 | 2187330 | 50.0 |
| Cyclohexanone, ... | 12.938 | 6.9 | ug/l | 275796 | 4 | 13.561 | 2007890 | 50.0 |