LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022793.D
Acq On : 24 Jun 2025 13:32
Operator : SY/MD
Sample : Q2363-01
Misc : 5.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GCAP1

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_Y\methods\82Y062325S.M
Title : SW846 8260

Signal : TIC: VY022793.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.653 | 459 | 481 | 506 | rBV2 | 223794 | 943668 | 7.54% | 0.455% |
| 2 | 5.122 | 540 | 558 | 574 | rBV | 152570 | 547648 | 4.38% | 0.264% |
| 3 | 6.586 | 784 | 798 | 806 | rBV | 157388 | 511780 | 4.09% | 0.247% |
| 4 | 6.689 | 806 | 815 | 827 | rVB | 264785 | 789534 | 6.31% | 0.381% |
| 5 | 7.628 | 958 | 969 | 973 | rBV | 249098 | 618382 | 4.94% | 0.298% |
| 6 | 7.695 | 973 | 980 | 988 | rVV5 | 729272 | 2180319 | 17.43% | 1.052% |
| 7 | 7.787 | 988 | 995 | 1007 | rVV | 535505 | 1375337 | 10.99% | 0.664% |
| 8 | 7.915 | 1007 | 1016 | 1022 | rVV | 687281 | 1658945 | 13.26% | 0.801% |
| 9 | 7.969 | 1022 | 1025 | 1033 | rVV | 249772 | 547127 | 4.37% | 0.264% |
| 10 | 8.055 | 1033 | 1039 | 1051 | rVV | 212134 | 479415 | 3.83% | 0.231% |
| 11 | 8.195 | 1051 | 1062 | 1065 | rVV2 | 726422 | 1732769 | 13.85% | 0.836% |
| 12 | 8.250 | 1065 | 1071 | 1079 | rVV4 | 992825 | 3178857 | 25.41% | 1.534% |
| 13 | 8.335 | 1079 | 1085 | 1097 | rVV | 1385947 | 3101602 | 24.79% | 1.497% |
| 14 | 8.610 | 1121 | 1130 | 1143 | rBV | 750451 | 1589774 | 12.71% | 0.767% |
| 15 | 9.103 | 1197 | 1211 | 1218 | rBV2 | 2904413 | 8995321 | 71.90% | 4.342% |
| 16 | 9.164 | 1218 | 1221 | 1228 | rVV | 376660 | 653820 | 5.23% | 0.316% |
| 17 | 9.292 | 1237 | 1242 | 1247 | rVV | 314793 | 594837 | 4.75% | 0.287% |
| 18 | 9.384 | 1247 | 1257 | 1265 | rVB | 1801629 | 3668930 | 29.32% | 1.771% |
| 19 | 9.530 | 1273 | 1281 | 1290 | rVB2 | 3578464 | 6957793 | 55.61% | 3.358% |
| 20 | 9.670 | 1293 | 1304 | 1310 | rBV2 | 823840 | 2201548 | 17.60% | 1.063% |
| 21 | 9.725 | 1310 | 1313 | 1319 | rVV5 | 253639 | 533906 | 4.27% | 0.258% |
| 22 | 9.780 | 1319 | 1322 | 1328 | rVB2 | 257172 | 437040 | 3.49% | 0.211% |
| 23 | 9.859 | 1328 | 1335 | 1342 | rBV2 | 874265 | 2012814 | 16.09% | 0.972% |
| 24 | 9.994 | 1350 | 1357 | 1359 | rBV2 | 473048 | 899994 | 7.19% | 0.434% |
| 25 | 10.030 | 1359 | 1363 | 1368 | rVB3 | 532945 | 1092644 | 8.73% | 0.527% |
| 26 | 10.097 | 1368 | 1374 | 1379 | rBV2 | 5375673 | 9819977 | 78.49% | 4.740% |
| 27 | 10.225 | 1389 | 1395 | 1397 | rBV | 317628 | 489936 | 3.92% | 0.236% |
| 28 | 10.286 | 1397 | 1405 | 1414 | rVB3 | 1681974 | 4892242 | 39.10% | 2.361% |
| 29 | 10.408 | 1414 | 1425 | 1427 | rBV | 1232930 | 2527097 | 20.20% | 1.220% |
| 30 | 10.445 | 1427 | 1431 | 1439 | rVB | 2915434 | 4957883 | 39.63% | 2.393% |
| 31 | 10.536 | 1439 | 1446 | 1452 | rBV2 | 1935163 | 4178059 | 33.39% | 2.017% |
| 32 | 10.591 | 1452 | 1455 | 1459 | rVV | 353239 | 594055 | 4.75% | 0.287% |
| 33 | 10.634 | 1459 | 1462 | 1466 | rVB2 | 278506 | 406413 | 3.25% | 0.196% |
| 34 | 10.682 | 1466 | 1470 | 1474 | rBV | 249998 | 406093 | 3.25% | 0.196% |
| 35 | 10.780 | 1481 | 1486 | 1489 | rBV | 271308 | 492043 | 3.93% | 0.237% |
| 36 | 10.841 | 1492 | 1496 | 1501 | rVV4 | 308740 | 632645 | 5.06% | 0.305% |

LSC Area Percent Report

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Operator : SY/MD
Sample : Q2363-01
Misc : 5.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GCAP1

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_Y\methods\82Y062325S.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 10.926 | 1501 | 1510 | 1513 | rVV2 | 1251065 | 2770381 | 22.14% | 1.337% |
| 38 | 10.957 | 1513 | 1515 | 1519 | rVV | 1212909 | 1842508 | 14.73% | 0.889% |
| 39 | 11.012 | 1519 | 1524 | 1530 | rVV | 7337026 | 12511401 | 100.00% | 6.039% |
| 40 | 11.066 | 1530 | 1533 | 1537 | rVV3 | 979894 | 1602201 | 12.81% | 0.773% |
| 41 | 11.115 | 1537 | 1541 | 1547 | rVV3 | 1219441 | 2195627 | 17.55% | 1.060% |
| 42 | 11.219 | 1552 | 1558 | 1568 | rVB | 2108881 | 4306926 | 34.42% | 2.079% |
| 43 | 11.329 | 1568 | 1576 | 1581 | rBV6 | 332750 | 1019152 | 8.15% | 0.492% |
| 44 | 11.414 | 1585 | 1590 | 1593 | rBV | 1208291 | 1964902 | 15.70% | 0.948% |
| 45 | 11.451 | 1593 | 1596 | 1600 | rVV | 552776 | 999513 | 7.99% | 0.482% |
| 46 | 11.505 | 1600 | 1605 | 1607 | rVV | 512521 | 1030024 | 8.23% | 0.497% |
| 47 | 11.548 | 1607 | 1612 | 1616 | rVV | 1555976 | 2709968 | 21.66% | 1.308% |
| 48 | 11.603 | 1616 | 1621 | 1624 | rVV4 | 842722 | 1704305 | 13.62% | 0.823% |
| 49 | 11.658 | 1624 | 1630 | 1641 | rVB2 | 1546302 | 4810043 | 38.45% | 2.322% |
| 50 | 11.761 | 1641 | 1647 | 1651 | rBV4 | 498499 | 978119 | 7.82% | 0.472% |
| 51 | 11.816 | 1651 | 1656 | 1661 | rVB | 579442 | 896829 | 7.17% | 0.433% |
| 52 | 11.920 | 1666 | 1673 | 1680 | rBV2 | 2553133 | 5649650 | 45.16% | 2.727% |
| 53 | 11.975 | 1680 | 1682 | 1685 | rVV | 290616 | 409685 | 3.27% | 0.198% |
| 54 | 12.005 | 1685 | 1687 | 1691 | rVB2 | 401607 | 516618 | 4.13% | 0.249% |
| 55 | 12.085 | 1696 | 1700 | 1701 | rBV2 | 493288 | 615075 | 4.92% | 0.297% |
| 56 | 12.121 | 1701 | 1706 | 1715 | rVV2 | 3132402 | 6112463 | 48.86% | 2.950% |
| 57 | 12.200 | 1715 | 1719 | 1733 | rVB6 | 779672 | 2433711 | 19.45% | 1.175% |
| 58 | 12.341 | 1740 | 1742 | 1746 | rVB3 | 480693 | 632030 | 5.05% | 0.305% |
| 59 | 12.402 | 1746 | 1752 | 1757 | rVB2 | 1190635 | 1958175 | 15.65% | 0.945% |
| 60 | 12.475 | 1757 | 1764 | 1773 | rBV4 | 1275761 | 3712417 | 29.67% | 1.792% |
| 61 | 12.560 | 1773 | 1778 | 1786 | rVB2 | 3943897 | 6866184 | 54.88% | 3.314% |
| 62 | 12.645 | 1786 | 1792 | 1797 | rBV5 | 1303884 | 3126156 | 24.99% | 1.509% |
| 63 | 12.713 | 1799 | 1803 | 1813 | rVB6 | 1645159 | 4097750 | 32.75% | 1.978% |
| 64 | 12.865 | 1824 | 1828 | 1832 | rVB3 | 924795 | 1377975 | 11.01% | 0.665% |
| 65 | 12.908 | 1832 | 1835 | 1838 | rBV | 354222 | 468640 | 3.75% | 0.226% |
| 66 | 12.956 | 1839 | 1843 | 1852 | rVB4 | 1412542 | 3068950 | 24.53% | 1.481% |
| 67 | 13.048 | 1854 | 1858 | 1860 | rBV2 | 566868 | 871406 | 6.96% | 0.421% |
| 68 | 13.164 | 1874 | 1877 | 1881 | rBV4 | 450596 | 694319 | 5.55% | 0.335% |
| 69 | 13.212 | 1881 | 1885 | 1891 | rVB5 | 708702 | 1480844 | 11.84% | 0.715% |
| 70 | 13.340 | 1902 | 1906 | 1914 | rVB | 1184567 | 2116251 | 16.91% | 1.021% |
| 71 | 13.414 | 1914 | 1918 | 1921 | rBV2 | 375949 | 609808 | 4.87% | 0.294% |
| 72 | 13.481 | 1923 | 1929 | 1932 | rBV3 | 575484 | 1090284 | 8.71% | 0.526% |
| 73 | 13.664 | 1953 | 1959 | 1964 | rBV2 | 3461937 | 5838278 | 46.66% | 2.818% |
| 74 | 13.883 | 1991 | 1995 | 2001 | rVB | 1221525 | 1973322 | 15.77% | 0.952% |
| 75 | 13.993 | 2007 | 2013 | 2017 | rBV3 | 1580009 | 2680652 | 21.43% | 1.294% |
| 76 | 14.042 | 2017 | 2021 | 2029 | rVB5 | 607994 | 1441175 | 11.52% | 0.696% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022793.D
Acq On : 24 Jun 2025 13:32
Operator : SY/MD
Sample : Q2363-01
Misc : 5.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GCAP1

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_Y\methods\82Y062325S.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 14.133 | 2029 | 2036 | 2038 | rBV2 | 563531 | 1035495 | 8.28% | 0.500% |
| 78 | 14.170 | 2038 | 2042 | 2045 | rBV2 | 954826 | 1714521 | 13.70% | 0.828% |
| 79 | 14.298 | 2058 | 2063 | 2065 | rBV2 | 738479 | 1180202 | 9.43% | 0.570% |
| 80 | 14.334 | 2065 | 2069 | 2072 | rVV2 | 1571510 | 2722327 | 21.76% | 1.314% |
| 81 | 14.365 | 2072 | 2074 | 2079 | rVV | 799375 | 1423465 | 11.38% | 0.687% |
| 82 | 14.420 | 2080 | 2083 | 2089 | rVV3 | 608244 | 1237930 | 9.89% | 0.598% |
| 83 | 14.493 | 2092 | 2095 | 2097 | rVV2 | 273560 | 387090 | 3.09% | 0.187% |
| 84 | 14.529 | 2097 | 2101 | 2105 | rVV2 | 744499 | 1135694 | 9.08% | 0.548% |
| 85 | 14.584 | 2105 | 2110 | 2117 | rVV3 | 978207 | 2063508 | 16.49% | 0.996% |
| 86 | 14.651 | 2117 | 2121 | 2126 | rVV5 | 751933 | 1609514 | 12.86% | 0.777% |
| 87 | 14.700 | 2126 | 2129 | 2135 | rVB3 | 455584 | 782441 | 6.25% | 0.378% |
| 88 | 14.785 | 2139 | 2143 | 2147 | rVV3 | 490238 | 803226 | 6.42% | 0.388% |
| 89 | 14.852 | 2150 | 2154 | 2158 | rVV | 1443934 | 2237885 | 17.89% | 1.080% |
| 90 | 14.913 | 2162 | 2164 | 2167 | rVV2 | 816926 | 1137128 | 9.09% | 0.549% |
| 91 | 14.956 | 2167 | 2171 | 2181 | rVV2 | 1597939 | 3735212 | 29.85% | 1.803% |
| 92 | 15.047 | 2182 | 2186 | 2191 | rVB3 | 460636 | 742259 | 5.93% | 0.358% |
| 93 | 15.102 | 2191 | 2195 | 2200 | rBV4 | 396480 | 762204 | 6.09% | 0.368% |
| 94 | 15.243 | 2214 | 2218 | 2222 | rBV4 | 298267 | 497314 | 3.97% | 0.240% |
| 95 | 15.291 | 2223 | 2226 | 2230 | rVB3 | 325822 | 479570 | 3.83% | 0.231% |
| 96 | 15.566 | 2265 | 2271 | 2278 | rVB6 | 333063 | 888325 | 7.10% | 0.429% |
| 97 | 15.767 | 2299 | 2304 | 2309 | rBV4 | 340540 | 826919 | 6.61% | 0.399% |
| 98 | 15.913 | 2322 | 2328 | 2333 | rBV2 | 307986 | 600973 | 4.80% | 0.290% |
| 99 | 16.224 | 2375 | 2379 | 2388 | rVB2 | 214083 | 460239 | 3.68% | 0.222% |
| 100 | 16.352 | 2395 | 2400 | 2415 | rVB5 | 274605 | 835172 | 6.68% | 0.403% |

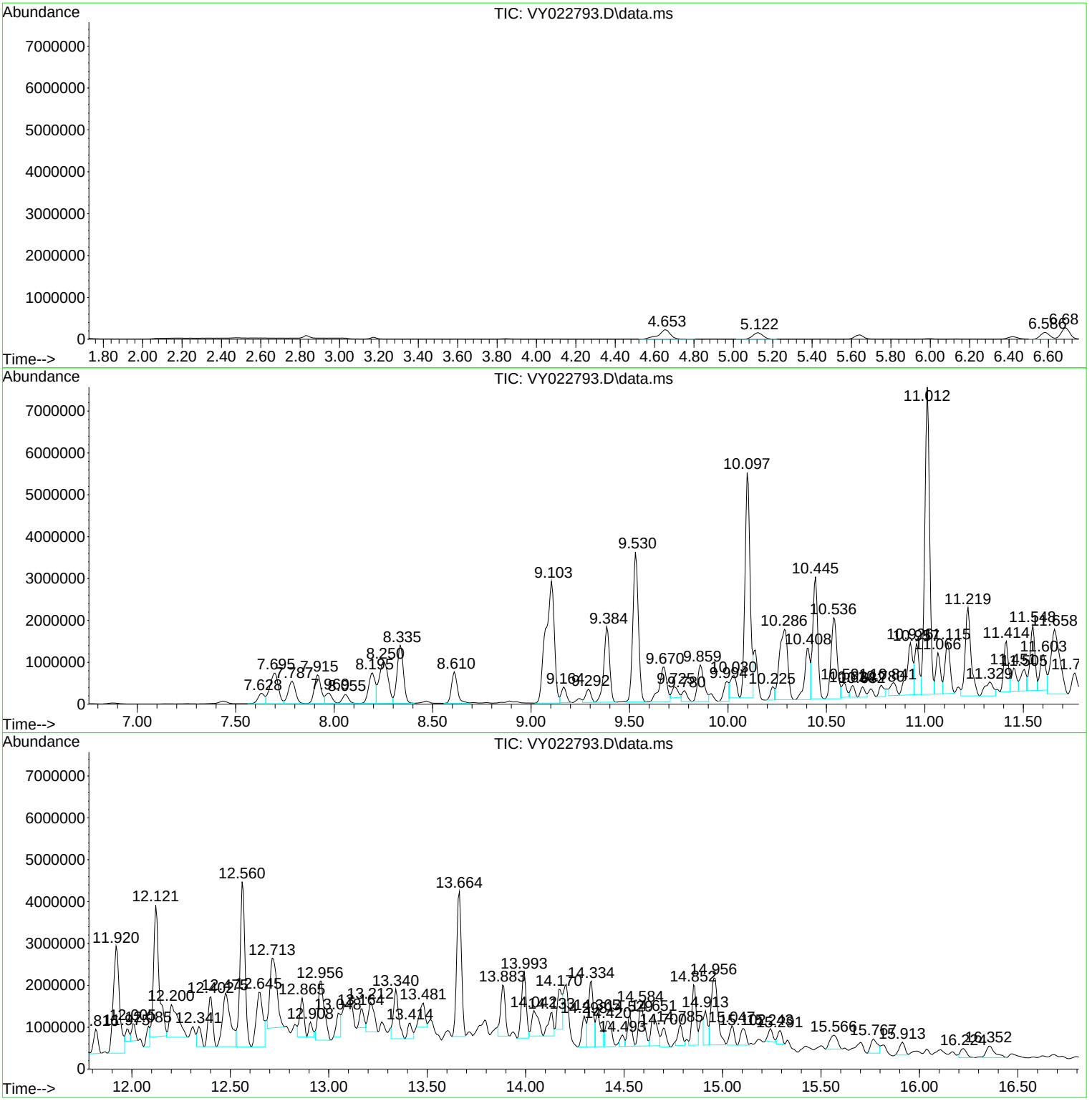
Sum of corrected areas: 207182577

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022793.D
Acq On : 24 Jun 2025 13:32
Operator : SY/MD
Sample : Q2363-01
Misc : 5.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GCAP1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022793.D
Acq On : 24 Jun 2025 13:32
Operator : SY/MD
Sample : Q2363-01
Misc : 5.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GCAP1

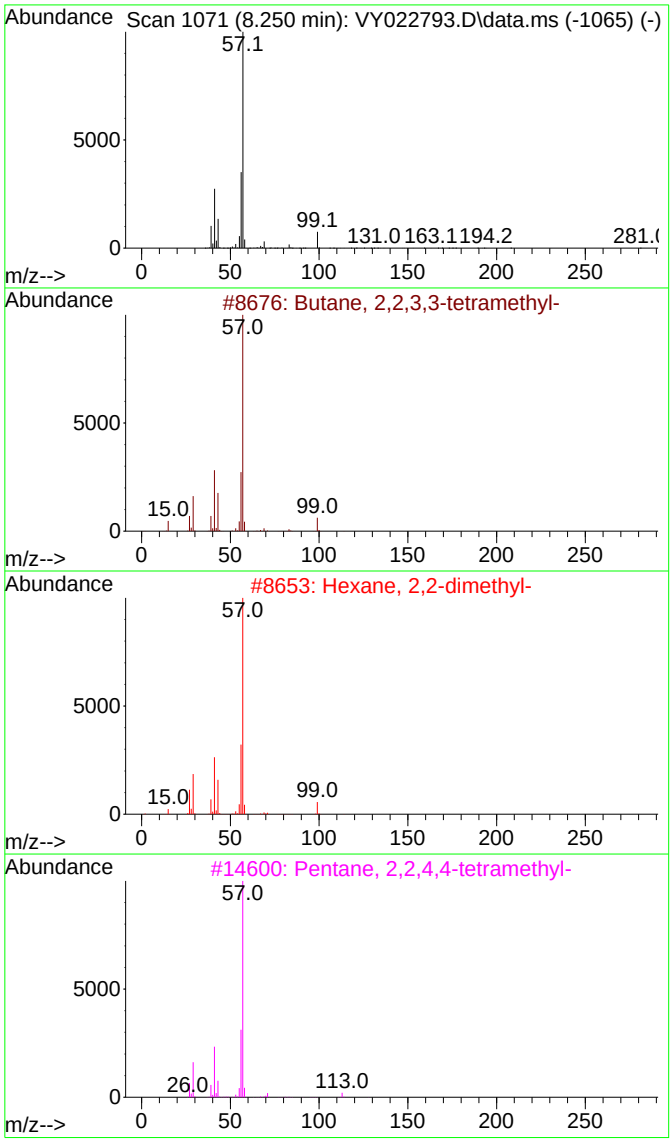
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

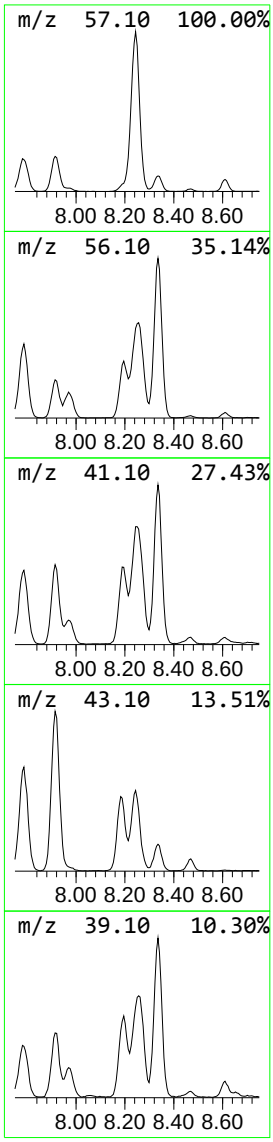
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 Butane, 2,2,3,3-tetramethyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.250 | 99.98 ug/l | 3178860 | 1,4-Difluorobenzene | 8.610 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2,2,3,3-tetramethyl- | 114 | C8H18 | 000594-82-1 | 78 |
| 2 | Hexane, 2,2-dimethyl- | 114 | C8H18 | 000590-73-8 | 72 |
| 3 | Pentane, 2,2,4,4-tetramethyl- | 128 | C9H20 | 001070-87-7 | 59 |
| 4 | Pentane, 2,2,4-trimethyl- | 114 | C8H18 | 000540-84-1 | 59 |
| 5 | Heptane, 2,2,4,6,6-pentamethyl- | 170 | C12H26 | 013475-82-6 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022793.D
Acq On : 24 Jun 2025 13:32
Operator : SY/MD
Sample : Q2363-01
Misc : 5.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GCAP1

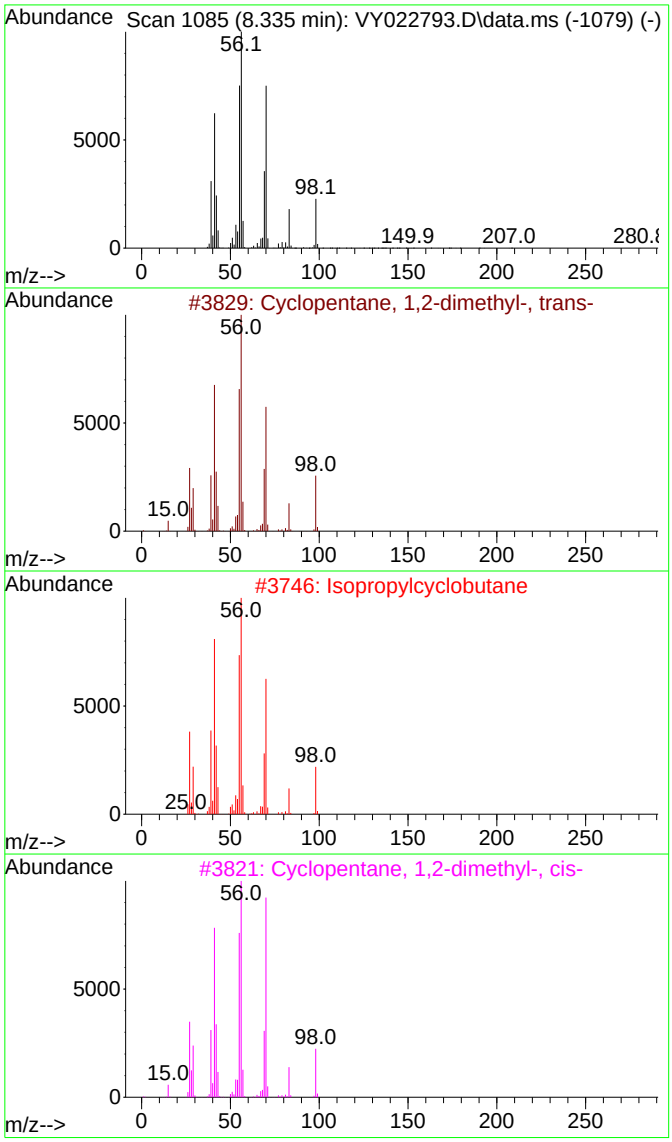
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

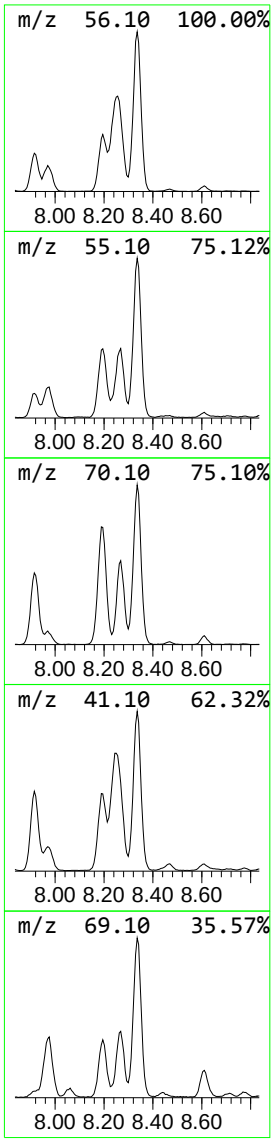
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 Cyclopentane, 1,2-dimethyl-... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.335 | 97.55 ug/l | 3101600 | 1,4-Difluorobenzene | 8.610 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1,2-dimethyl-, trans- | 98 | C7H14 | 000822-50-4 | 94 |
| 2 | Isopropylcyclobutane | 98 | C7H14 | 000872-56-0 | 94 |
| 3 | Cyclopentane, 1,2-dimethyl-, cis- | 98 | C7H14 | 001192-18-3 | 91 |
| 4 | Cyclopentane, 1,2-dimethyl- | 98 | C7H14 | 002452-99-5 | 91 |
| 5 | 1-Heptene | 98 | C7H14 | 000592-76-7 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022793.D
Acq On : 24 Jun 2025 13:32
Operator : SY/MD
Sample : Q2363-01
Misc : 5.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GCAP1

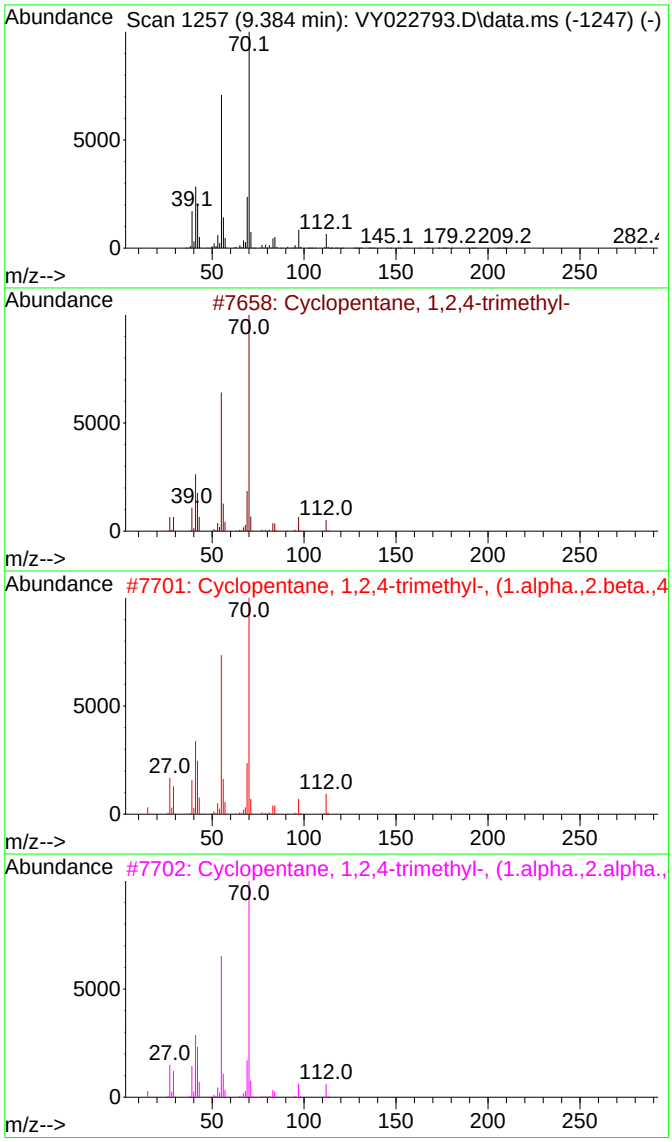
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

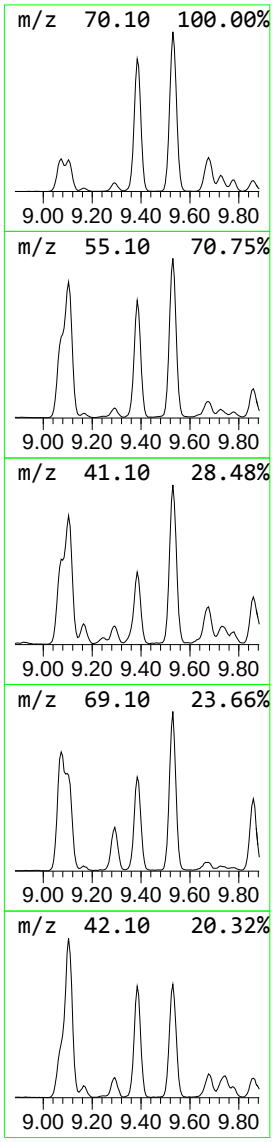
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 Cyclopentane, 1,2,4-trimethyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.384 | 115.39 ug/l | 3668930 | 1,4-Difluorobenzene | 8.610 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1,2,4-trimethyl- | 112 | C8H16 | 002815-58-9 | 94 |
| 2 | Cyclopentane, 1,2,4-trimethyl-, ... | 112 | C8H16 | 016883-48-0 | 94 |
| 3 | Cyclopentane, 1,2,4-trimethyl-, ... | 112 | C8H16 | 004850-28-6 | 91 |
| 4 | 2-Heptene, 3-methyl- | 112 | C8H16 | 003404-75-9 | 72 |
| 5 | Cyclopentane, 1,2,3-trimethyl-, ... | 112 | C8H16 | 002613-69-6 | 72 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022793.D
Acq On : 24 Jun 2025 13:32
Operator : SY/MD
Sample : Q2363-01
Misc : 5.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GCAP1

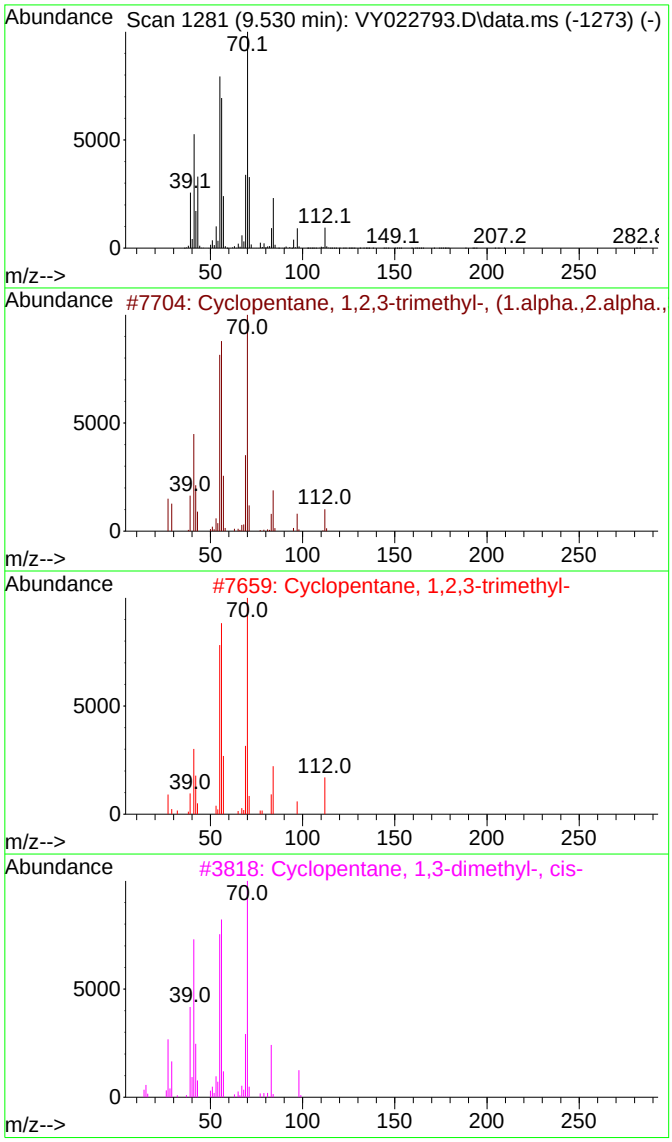
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

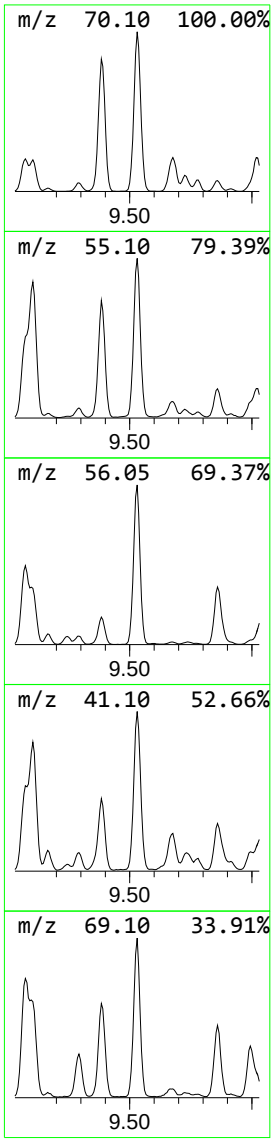
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 Cyclopentane, 1,2,3-trimeth... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.530 | 218.83 ug/l | 6957790 | 1,4-Difluorobenzene | 8.610 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1,2,3-trimethyl-, ... | 112 | C8H16 | 015890-40-1 | 90 |
| 2 | Cyclopentane, 1,2,3-trimethyl- | 112 | C8H16 | 002815-57-8 | 87 |
| 3 | Cyclopentane, 1,3-dimethyl-, cis- | 98 | C7H14 | 002532-58-3 | 64 |
| 4 | Cyclopentane, 1,2,3-trimethyl-, ... | 112 | C8H16 | 002613-69-6 | 64 |
| 5 | Cyclopentane, 1,3-dimethyl- | 98 | C7H14 | 002453-00-1 | 58 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022793.D
Acq On : 24 Jun 2025 13:32
Operator : SY/MD
Sample : Q2363-01
Misc : 5.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GCAP1

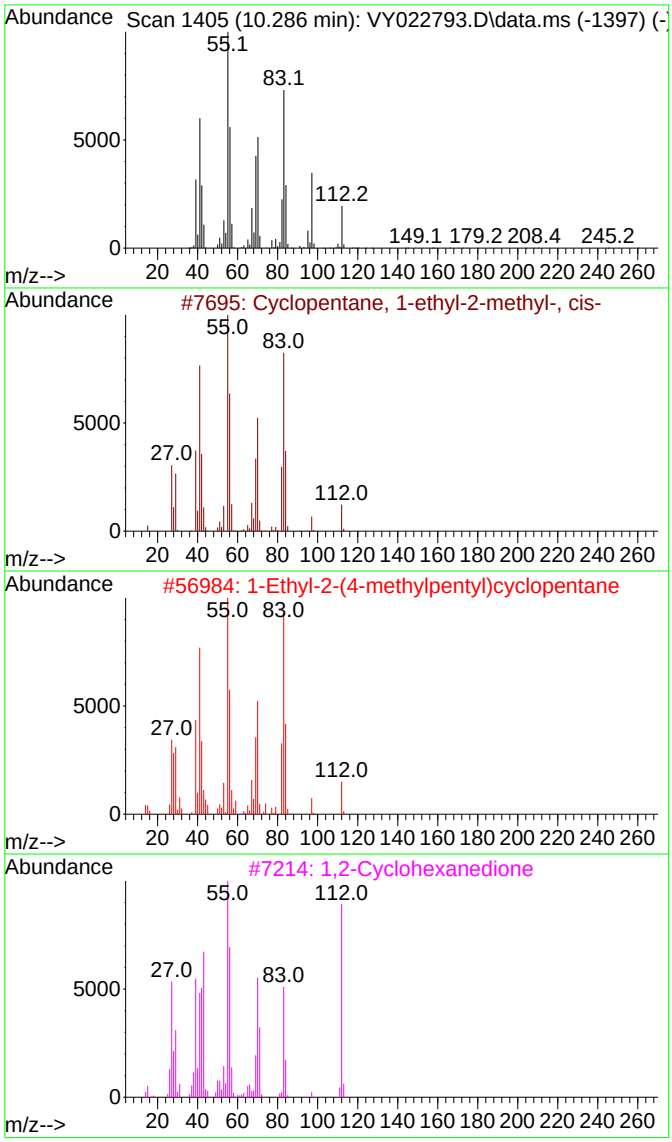
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

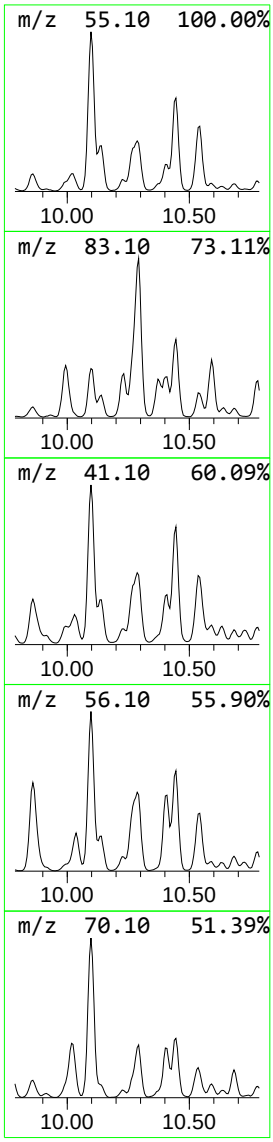
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 Cyclopentane, 1-ethyl-2-met... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.286 | 124.49 ug/l | 4892240 | Chlorobenzene-d5 | 11.414 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1-ethyl-2-methyl-,... | 112 | C8H16 | 000930-89-2 | 80 |
| 2 | 1-Ethyl-2-(4-methylpentyl)cyclop... | 182 | C13H26 | 219726-60-0 | 80 |
| 3 | 1,2-Cyclohexanedione | 112 | C6H8O2 | 000765-87-7 | 64 |
| 4 | Cyclooctane | 112 | C8H16 | 000292-64-8 | 62 |
| 5 | 2-Octene, (Z)- | 112 | C8H16 | 007642-04-8 | 58 |



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Data File : VY022793.D
Acq On : 24 Jun 2025 13:32
Operator : SY/MD
Sample : Q2363-01
Misc : 5.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GCAP1

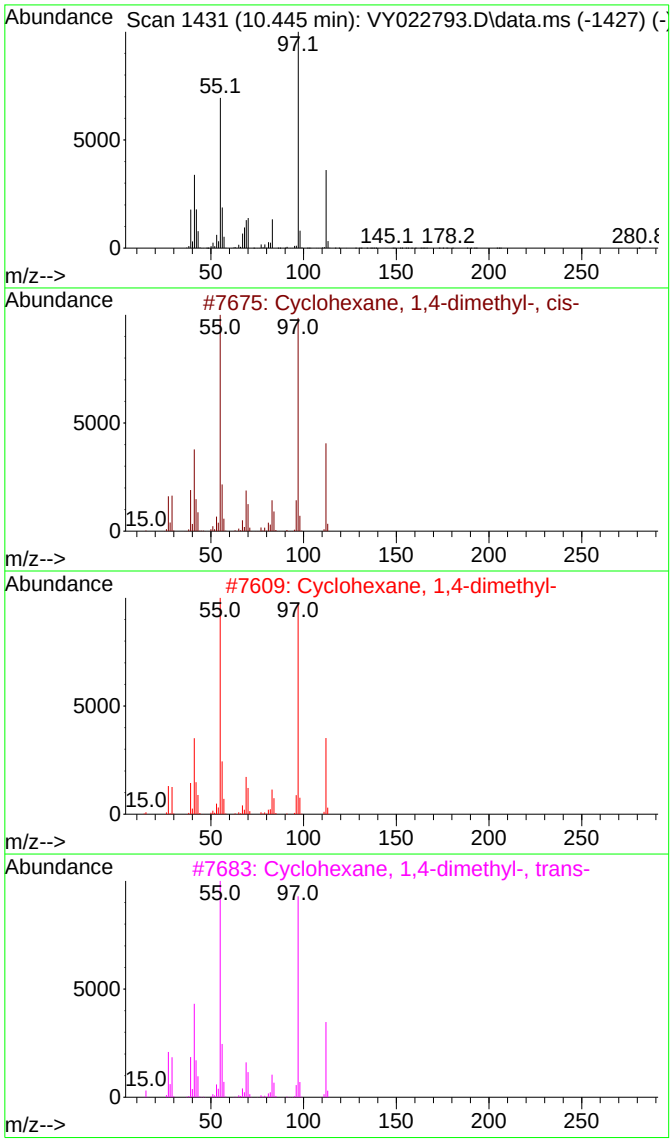
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

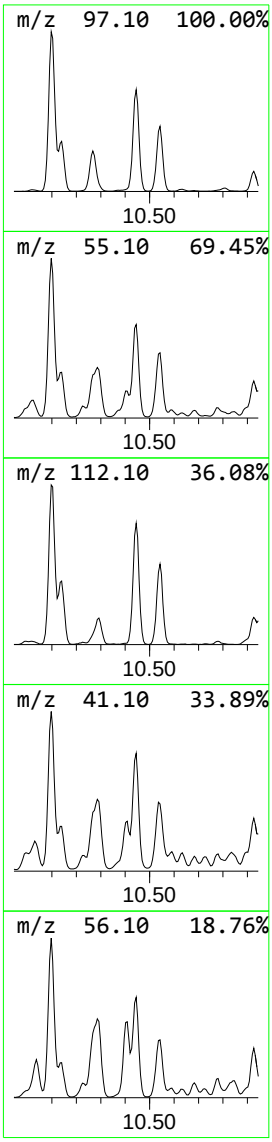
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 6 Cyclohexane, 1,4-dimethyl-,... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.445 | 126.16 ug/l | 4957880 | Chlorobenzene-d5 | 11.414 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,4-dimethyl-, cis- | 112 | C8H16 | 000624-29-3 | 91 |
| 2 | Cyclohexane, 1,4-dimethyl- | 112 | C8H16 | 000589-90-2 | 91 |
| 3 | Cyclohexane, 1,4-dimethyl-, trans- | 112 | C8H16 | 002207-04-7 | 87 |
| 4 | Cyclohexane, 1,3-dimethyl-, cis- | 112 | C8H16 | 000638-04-0 | 74 |
| 5 | Cyclohexane, 1,3-dimethyl- | 112 | C8H16 | 000591-21-9 | 74 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022793.D
Acq On : 24 Jun 2025 13:32
Operator : SY/MD
Sample : Q2363-01
Misc : 5.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GCAP1

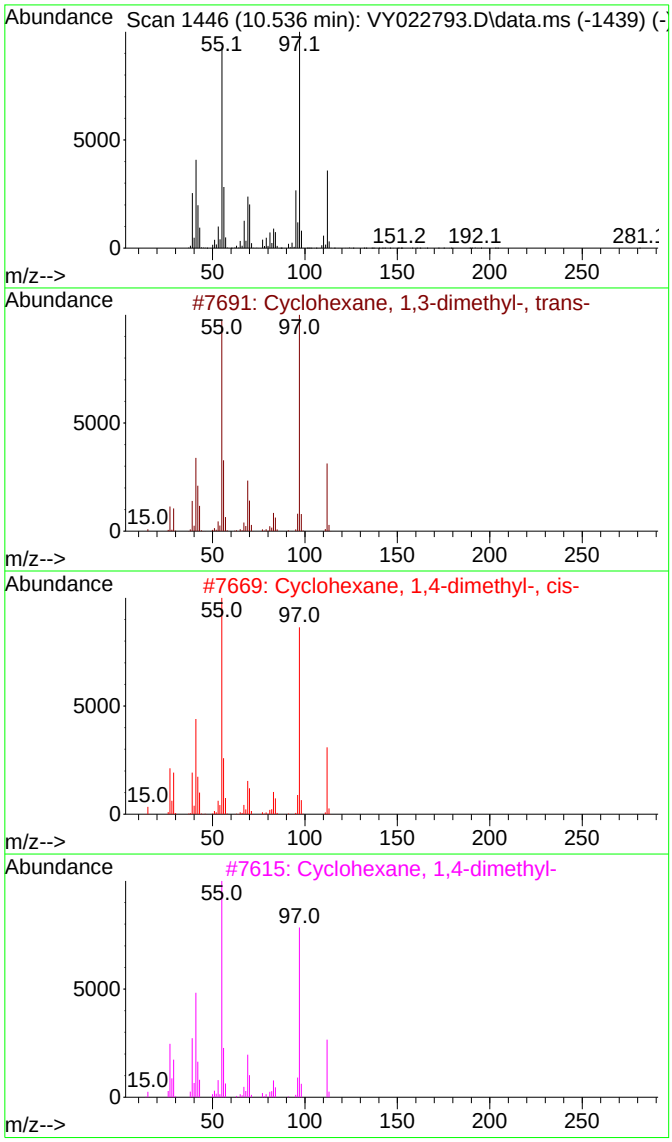
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

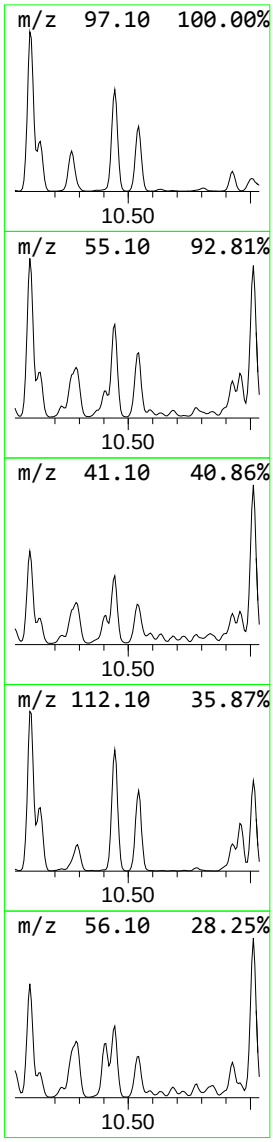
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 7 Cyclohexane, 1,3-dimethyl-,... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.536 | 106.32 ug/l | 4178060 | Chlorobenzene-d5 | 11.414 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16 | 002207-03-6 | 93 |
| 2 | Cyclohexane, 1,4-dimethyl-, cis- | 112 | C8H16 | 000624-29-3 | 87 |
| 3 | Cyclohexane, 1,4-dimethyl- | 112 | C8H16 | 000589-90-2 | 87 |
| 4 | Cyclohexane, 1,2-dimethyl-, trans- | 112 | C8H16 | 006876-23-9 | 87 |
| 5 | Cyclohexane, 1,3-dimethyl-, cis- | 112 | C8H16 | 000638-04-0 | 81 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022793.D
Acq On : 24 Jun 2025 13:32
Operator : SY/MD
Sample : Q2363-01
Misc : 5.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GCAP1

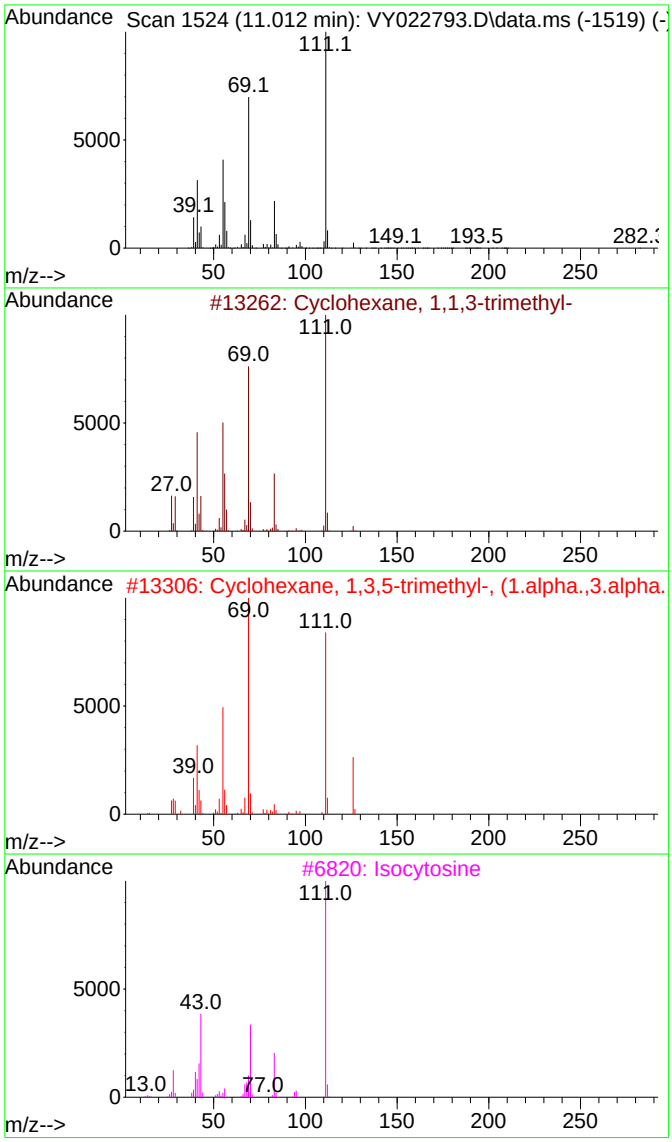
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

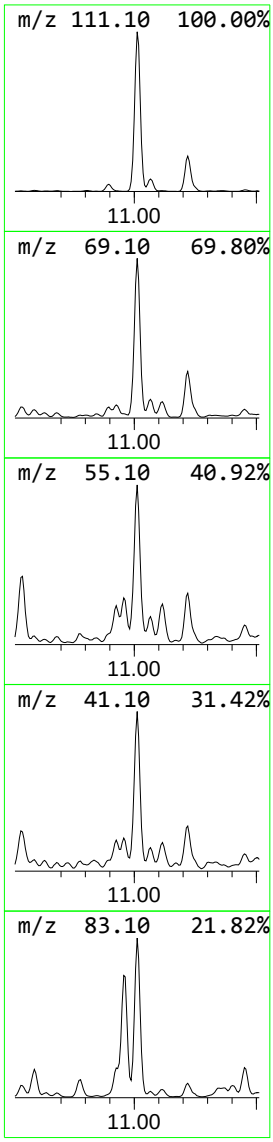
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 8 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.012 | 318.37 ug/l | 12511400 | Chlorobenzene-d5 | 11.414 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 95 |
| 2 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-27-3 | 59 |
| 3 | Isocytosine | 111 | C4H5N3O | 000108-53-2 | 58 |
| 4 | Cyclohexane, 1,3,5-trimethyl- | 126 | C9H18 | 001839-63-0 | 53 |
| 5 | Cyclopentane, (2-methylbutyl)- | 140 | C10H20 | 053366-38-4 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022793.D
Acq On : 24 Jun 2025 13:32
Operator : SY/MD
Sample : Q2363-01
Misc : 5.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GCAP1

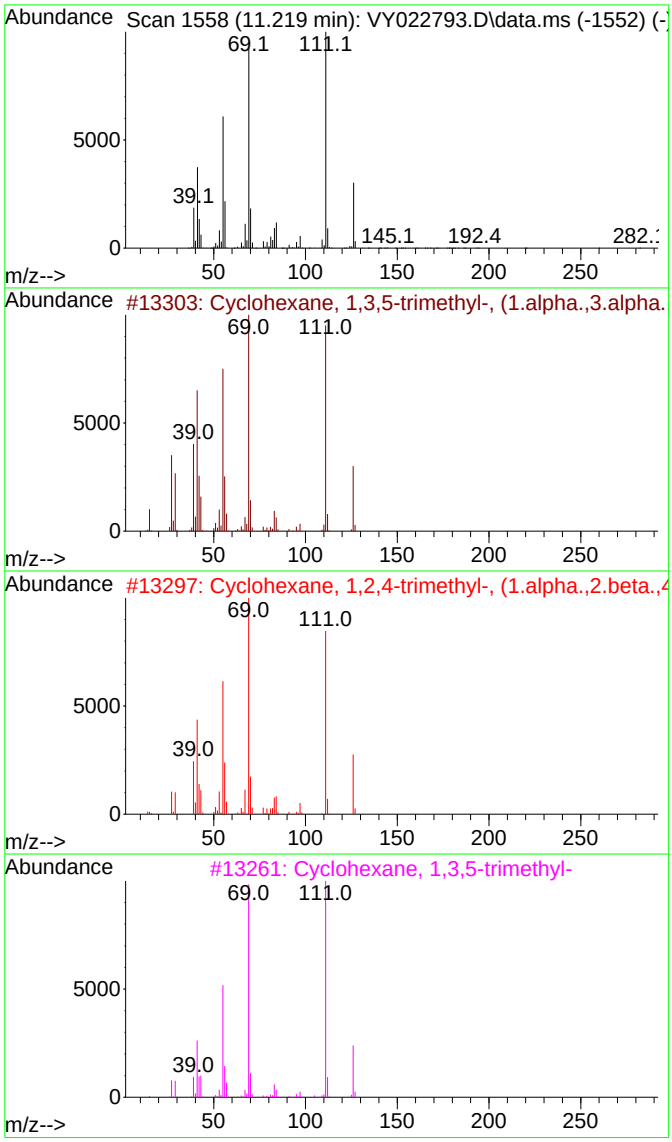
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

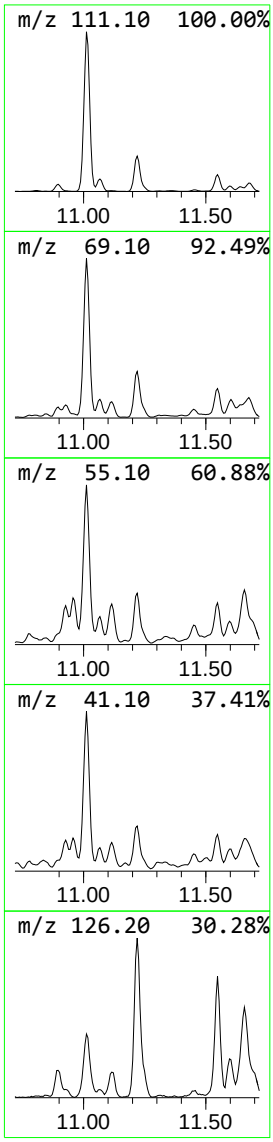
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 9 Cyclohexane, 1,3,5-trimethy... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.219 | 109.60 ug/l | 4306930 | Chlorobenzene-d5 | 11.414 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-26-2 | 94 |
| 2 | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18 | 007667-60-9 | 93 |
| 3 | Cyclohexane, 1,3,5-trimethyl- | 126 | C9H18 | 001839-63-0 | 90 |
| 4 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-27-3 | 87 |
| 5 | Cyclohexane, 1,2,4-trimethyl- | 126 | C9H18 | 002234-75-5 | 76 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022793.D
Acq On : 24 Jun 2025 13:32
Operator : SY/MD
Sample : Q2363-01
Misc : 5.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GCAP1

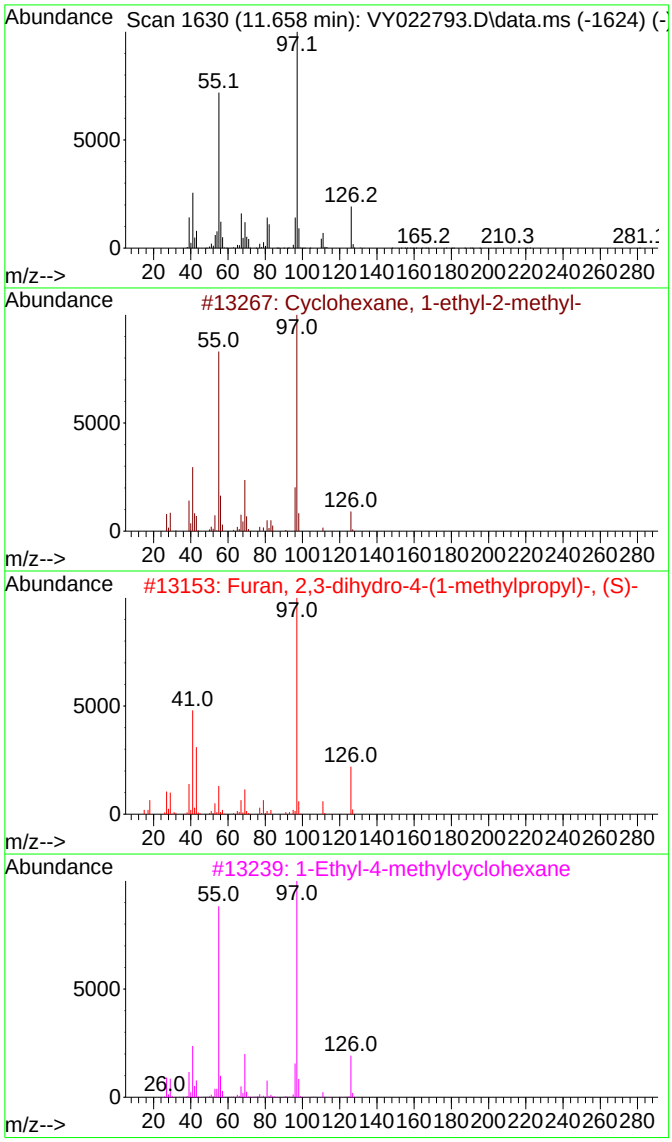
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

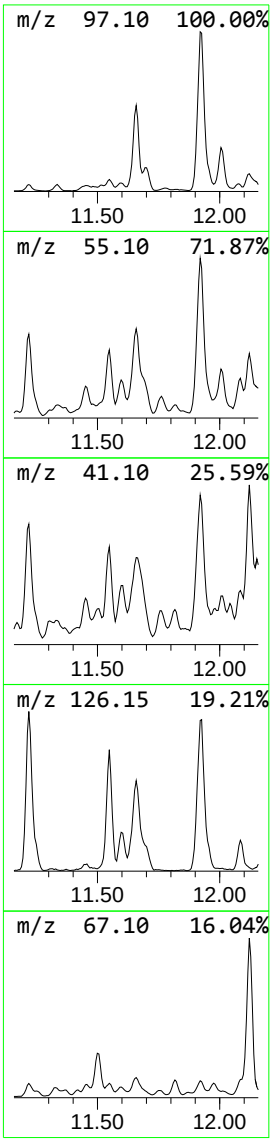
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 10 Cyclohexane, 1-ethyl-2-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.658 | 122.40 ug/l | 4810040 | Chlorobenzene-d5 | 11.414 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1-ethyl-2-methyl- | 126 | C9H18 | 003728-54-9 | 74 |
| 2 | Furan, 2,3-dihydro-4-(1-methylpr... | 126 | C8H14O | 034379-54-9 | 72 |
| 3 | 1-Ethyl-4-methylcyclohexane | 126 | C9H18 | 003728-56-1 | 72 |
| 4 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 004926-78-7 | 68 |
| 5 | cis-1-Ethyl-3-methyl-cyclohexane | 126 | C9H18 | 019489-10-2 | 68 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022793.D
Acq On : 24 Jun 2025 13:32
Operator : SY/MD
Sample : Q2363-01
Misc : 5.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GCAP1

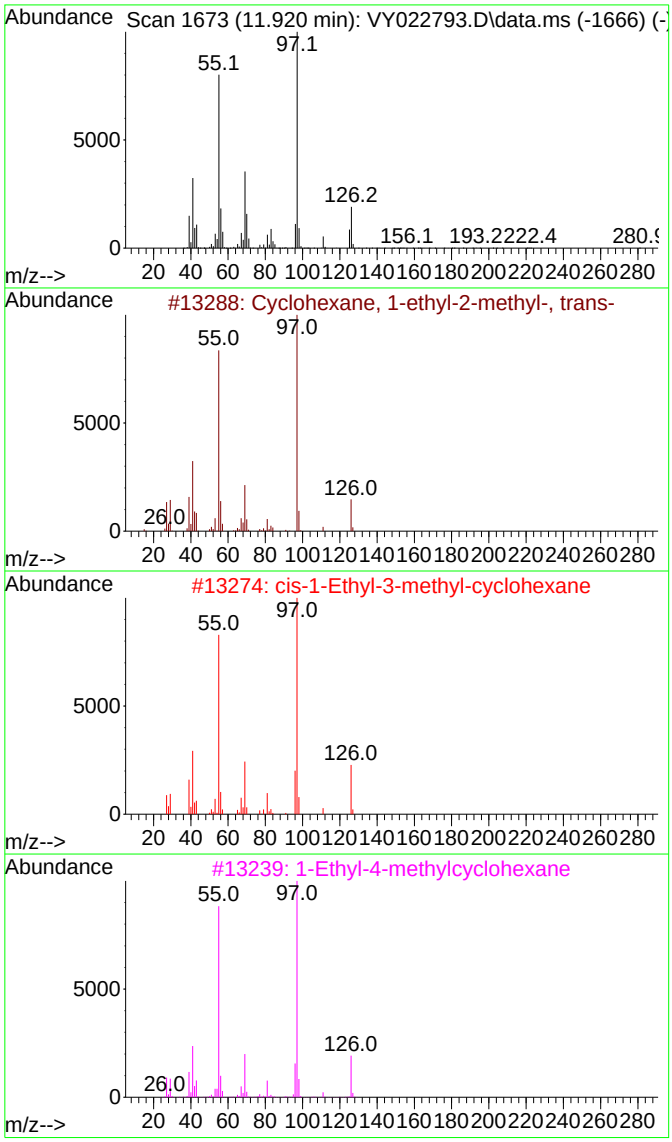
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

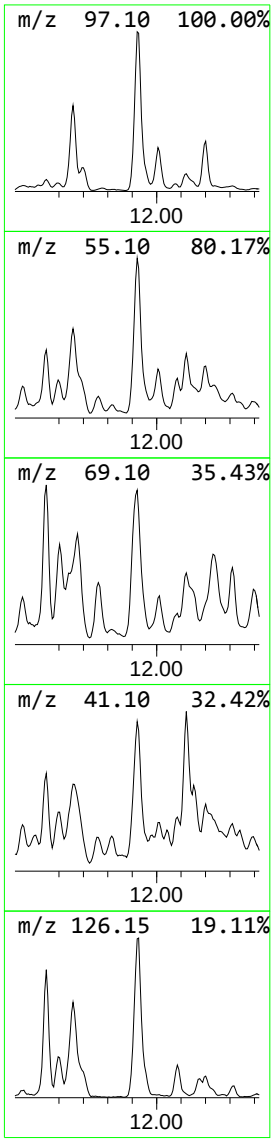
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 11 Cyclohexane, 1-ethyl-2-meth... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.920 | 143.76 ug/l | 5649650 | Chlorobenzene-d5 | 11.414 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18 | 004923-78-8 | 87 |
| 2 | cis-1-Ethyl-3-methyl-cyclohexane | 126 | C9H18 | 019489-10-2 | 80 |
| 3 | 1-Ethyl-4-methylcyclohexane | 126 | C9H18 | 003728-56-1 | 74 |
| 4 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 004926-78-7 | 72 |
| 5 | 3,5-Dimethyl-3-heptene | 126 | C9H18 | 059643-68-4 | 72 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022793.D
Acq On : 24 Jun 2025 13:32
Operator : SY/MD
Sample : Q2363-01
Misc : 5.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GCAP1

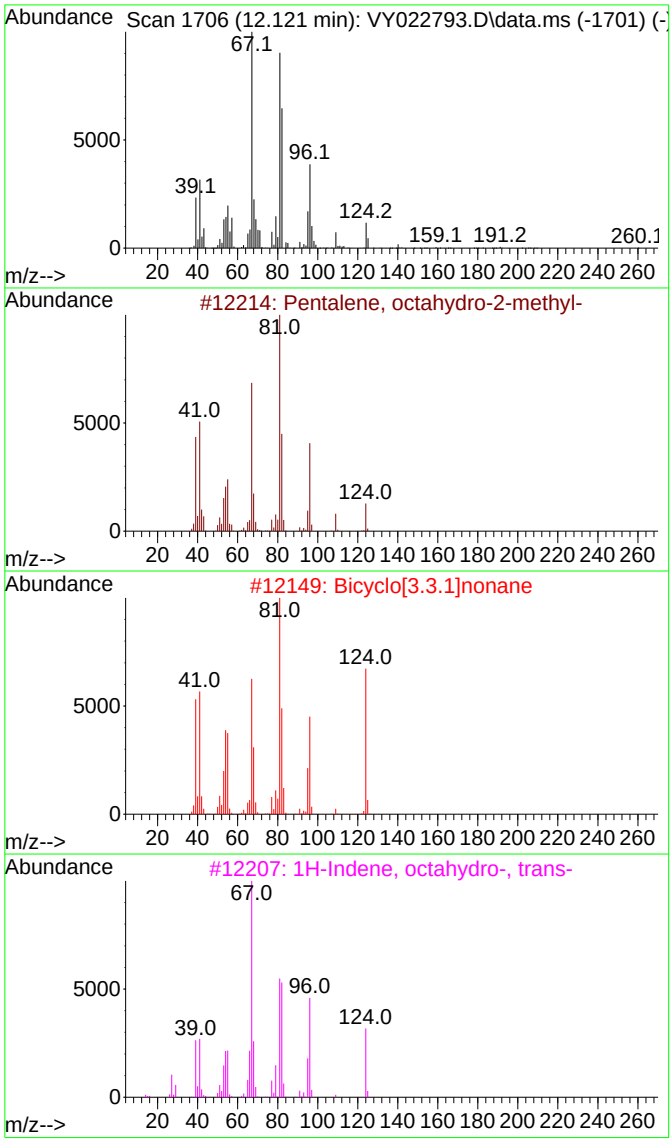
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

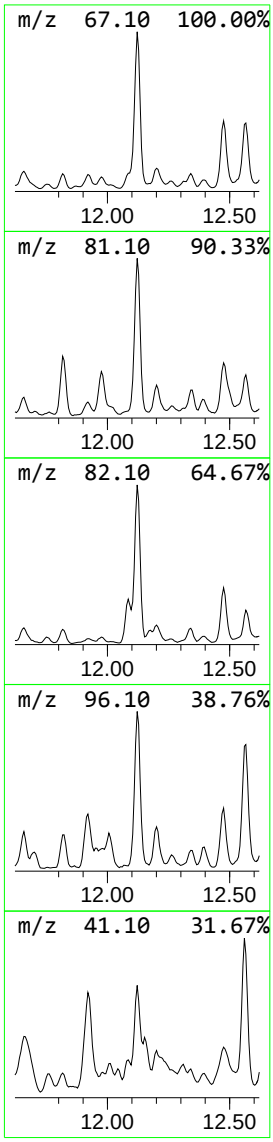
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 12 Pentalene, octahydro-2-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.121 | 155.54 ug/l | 6112460 | Chlorobenzene-d5 | 11.414 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentalene, octahydro-2-methyl- | 124 | C9H16 | 003868-64-2 | 72 |
| 2 | Bicyclo[3.3.1]nonane | 124 | C9H16 | 000280-65-9 | 68 |
| 3 | 1H-Indene, octahydro-, trans- | 124 | C9H16 | 003296-50-2 | 62 |
| 4 | Cyclohexene, 3-heptyl- | 180 | C13H24 | 015232-93-6 | 47 |
| 5 | 1H-Indene, octahydro-, cis- | 124 | C9H16 | 004551-51-3 | 46 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022793.D
Acq On : 24 Jun 2025 13:32
Operator : SY/MD
Sample : Q2363-01
Misc : 5.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GCAP1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

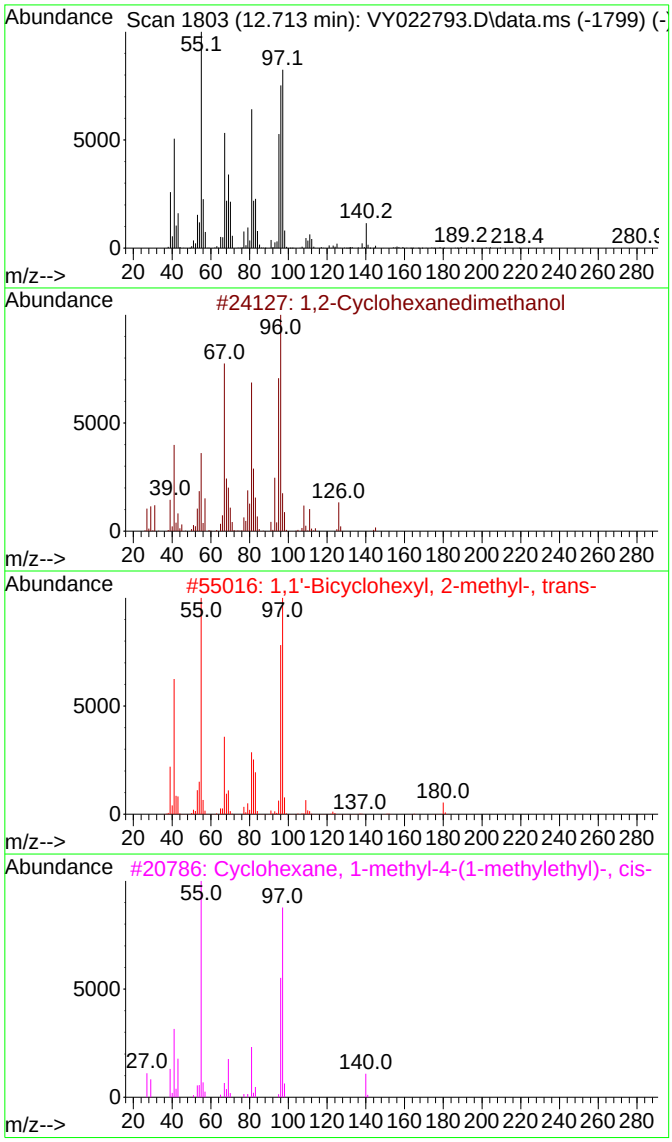
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

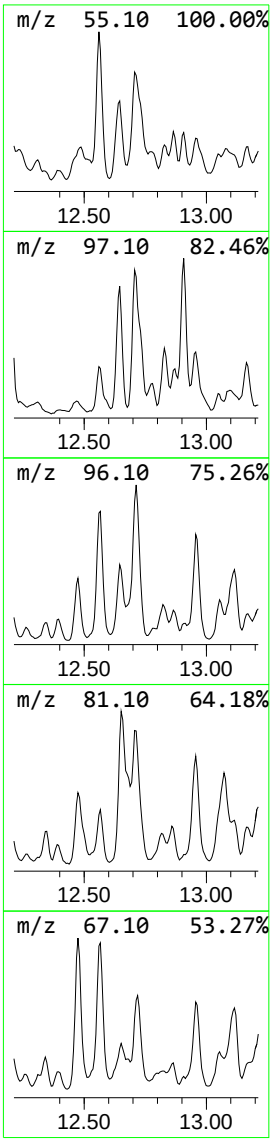
**********

Peak Number 13 unknown12.713 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.713 | 96.82 ug/l | 4097750 | 1,4-Dichlorobenzene-d4 | 13.341 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,2-Cyclohexanedimethanol | 144 | C8H16O2 | 003971-29-7 | 49 |
| 2 | 1,1'-Bicyclohexyl, 2-methyl-, tr... | 180 | C13H24 | 050991-09-8 | 47 |
| 3 | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20 | 006069-98-3 | 46 |
| 4 | Cyclohexane, 1-(cyclohexylmethyl... | 194 | C14H26 | 054824-04-3 | 35 |
| 5 | 3-Dimethylaminoacrylonitrile | 96 | C5H8N2 | 002407-68-3 | 30 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022793.D
Acq On : 24 Jun 2025 13:32
Operator : SY/MD
Sample : Q2363-01
Misc : 5.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GCAP1

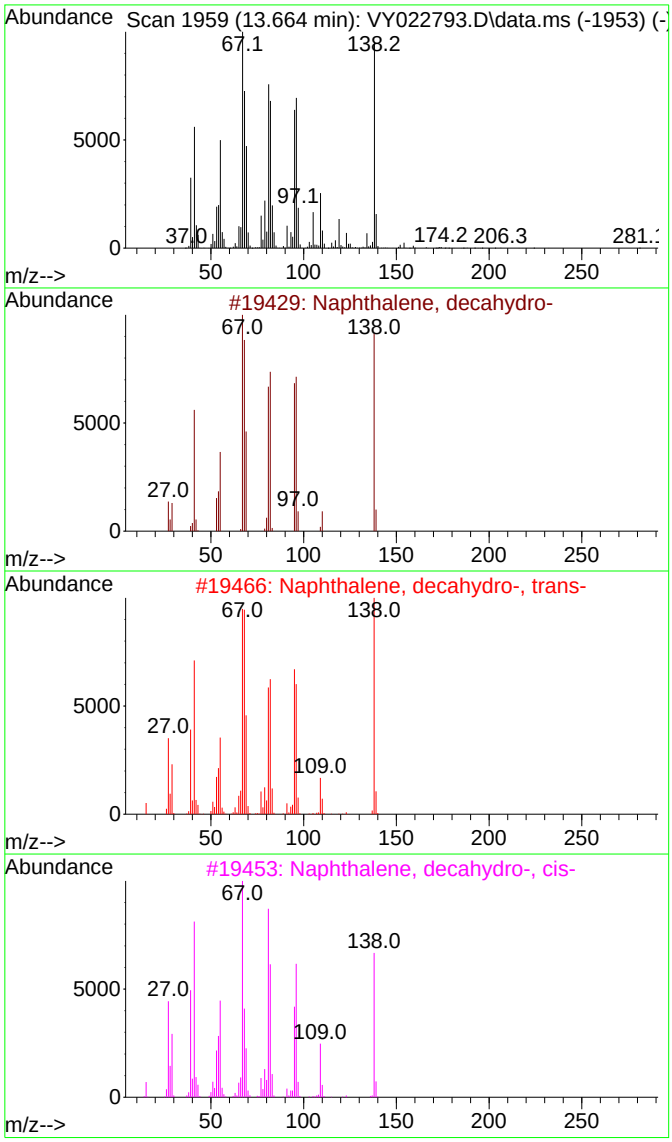
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

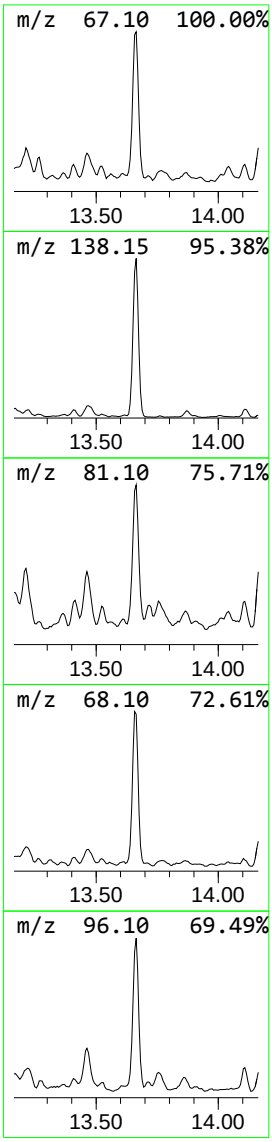
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 14 Naphthalene, decahydro- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.664 | 137.94 ug/l | 5838280 | 1,4-Dichlorobenzene-d4 | 13.341 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, decahydro- | 138 | C10H18 | 000091-17-8 | 96 |
| 2 | Naphthalene, decahydro-, trans- | 138 | C10H18 | 000493-02-7 | 95 |
| 3 | Naphthalene, decahydro-, cis- | 138 | C10H18 | 000493-01-6 | 90 |
| 4 | Spiro[4.5]decane | 138 | C10H18 | 000176-63-6 | 87 |
| 5 | Cyclodecene | 138 | C10H18 | 003618-12-0 | 68 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022793.D
Acq On : 24 Jun 2025 13:32
Operator : SY/MD
Sample : Q2363-01
Misc : 5.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GCAP1

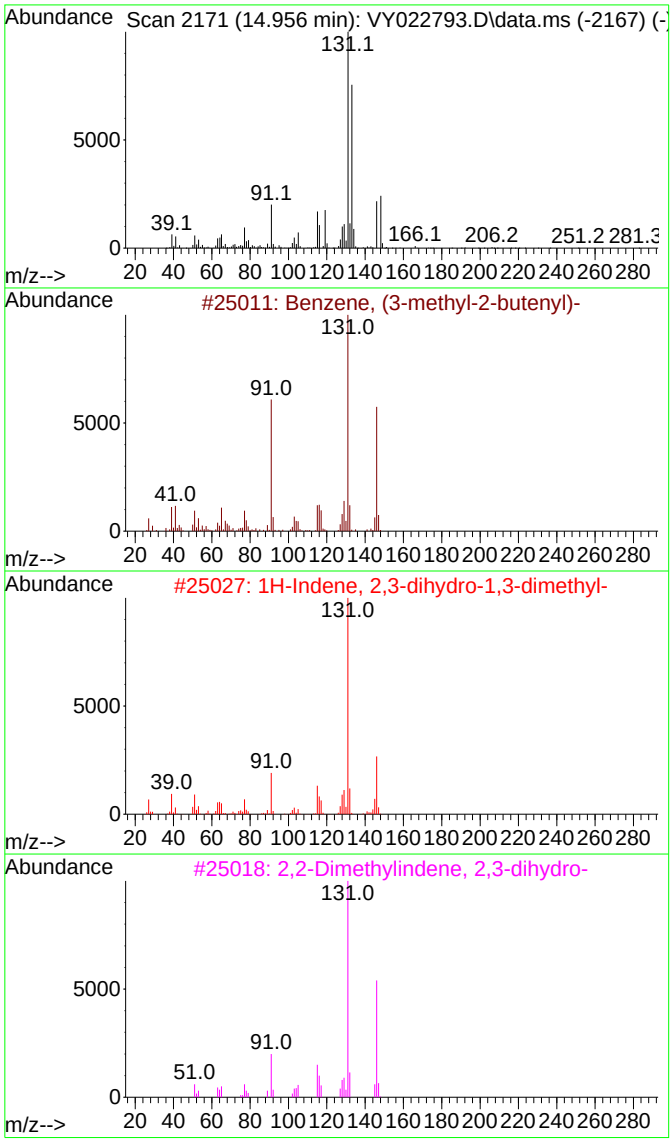
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260

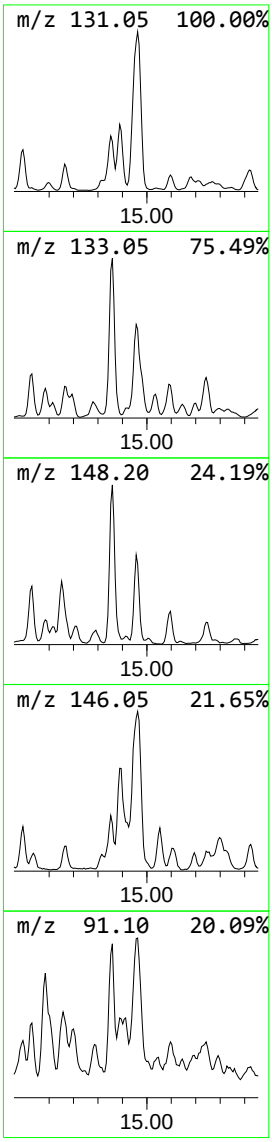
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 15 Benzene, (3-methyl-2-butenyl)- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.956 | 88.25 ug/l | 3735210 | 1,4-Dichlorobenzene-d4 | 13.341 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (3-methyl-2-butenyl)- | 146 | C11H14 | 004489-84-3 | 55 |
| 2 | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 | C11H14 | 004175-53-5 | 55 |
| 3 | 2,2-Dimethylindene, 2,3-dihydro- | 146 | C11H14 | 020836-11-7 | 55 |
| 4 | 1H-Indene, 2,3-dihydro-1,1-dimet... | 146 | C11H14 | 004912-92-9 | 50 |
| 5 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 001559-81-5 | 49 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022793.D
Acq On : 24 Jun 2025 13:32
Operator : SY/MD
Sample : Q2363-01
Misc : 5.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GCAP1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.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 |
| Butane, 2,2,3,3... | 8.250 | 100.0 | ug/l | 3178860 | 2 | 8.610 | 1589770 | 50.0 |
| Cyclopentane, 1... | 8.335 | 97.5 | ug/l | 3101600 | 2 | 8.610 | 1589770 | 50.0 |
| Cyclopentane, 1... | 9.384 | 115.4 | ug/l | 3668930 | 2 | 8.610 | 1589770 | 50.0 |
| Cyclopentane, 1... | 9.530 | 218.8 | ug/l | 6957790 | 2 | 8.610 | 1589770 | 50.0 |
| Cyclopentane, 1... | 10.286 | 124.5 | ug/l | 4892240 | 3 | 11.414 | 1964900 | 50.0 |
| Cyclohexane, 1,... | 10.445 | 126.2 | ug/l | 4957880 | 3 | 11.414 | 1964900 | 50.0 |
| Cyclohexane, 1,... | 10.536 | 106.3 | ug/l | 4178060 | 3 | 11.414 | 1964900 | 50.0 |
| Cyclohexane, 1,... | 11.012 | 318.4 | ug/l | 12511400 | 3 | 11.414 | 1964900 | 50.0 |
| Cyclohexane, 1,... | 11.219 | 109.6 | ug/l | 4306930 | 3 | 11.414 | 1964900 | 50.0 |
| Cyclohexane, 1-... | 11.658 | 122.4 | ug/l | 4810040 | 3 | 11.414 | 1964900 | 50.0 |
| Cyclohexane, 1-... | 11.920 | 143.8 | ug/l | 5649650 | 3 | 11.414 | 1964900 | 50.0 |
| Pentalene, octa... | 12.121 | 155.5 | ug/l | 6112460 | 3 | 11.414 | 1964900 | 50.0 |
| unknown12.713 | 12.713 | 96.8 | ug/l | 4097750 | 4 | 13.341 | 2116250 | 50.0 |
| Naphthalene, de... | 13.664 | 137.9 | ug/l | 5838280 | 4 | 13.341 | 2116250 | 50.0 |
| Benzene, (3-met... | 14.956 | 88.3 | ug/l | 3735210 | 4 | 13.341 | 2116250 | 50.0 |