LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % 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_W\Method\SFAMWLM120921SMA.M
Title : SFAM01.0

Signal : TIC: VW021627.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.343 | 66 | 72 | 82 | rVB | 36879 | 58039 | 5.46% | 0.472% |
| 2 | 2.501 | 92 | 98 | 107 | rBV2 | 3167 | 8086 | 0.76% | 0.066% |
| 3 | 2.818 | 145 | 150 | 153 | rBV3 | 552 | 1015 | 0.10% | 0.008% |
| 4 | 2.879 | 153 | 160 | 169 | rVB | 23292 | 45282 | 4.26% | 0.368% |
| 5 | 3.020 | 182 | 183 | 185 | rBV | 371 | 204 | 0.02% | 0.002% |
| 6 | 3.385 | 239 | 243 | 246 | rBV2 | 292 | 357 | 0.03% | 0.003% |
| 7 | 3.660 | 286 | 288 | 291 | rVB | 131 | 138 | 0.01% | 0.001% |
| 8 | 3.715 | 292 | 297 | 303 | rBV3 | 246 | 607 | 0.06% | 0.005% |
| 9 | 3.782 | 306 | 308 | 312 | rBV | 99 | 191 | 0.02% | 0.002% |
| 10 | 4.013 | 335 | 346 | 360 | rBV | 46879 | 126840 | 11.93% | 1.030% |
| 11 | 4.172 | 362 | 372 | 375 | rBV2 | 2023 | 5637 | 0.53% | 0.046% |
| 12 | 4.379 | 398 | 406 | 417 | rVB | 2650 | 7405 | 0.70% | 0.060% |
| 13 | 4.909 | 481 | 493 | 505 | rBB2 | 9986 | 30414 | 2.86% | 0.247% |
| 14 | 5.062 | 515 | 518 | 521 | rVB2 | 142 | 196 | 0.02% | 0.002% |
| 15 | 5.105 | 521 | 525 | 528 | rBV | 159 | 248 | 0.02% | 0.002% |
| 16 | 5.781 | 630 | 636 | 637 | rBV2 | 714 | 1076 | 0.10% | 0.009% |
| 17 | 5.946 | 654 | 663 | 671 | rBB3 | 2193 | 6453 | 0.61% | 0.052% |
| 18 | 6.665 | 780 | 781 | 784 | rBV | 131 | 129 | 0.01% | 0.001% |
| 19 | 6.702 | 784 | 787 | 790 | rVB | 118 | 172 | 0.02% | 0.001% |
| 20 | 6.909 | 811 | 821 | 830 | rBB3 | 1706 | 5297 | 0.50% | 0.043% |
| 21 | 7.025 | 837 | 840 | 841 | rBV | 141 | 129 | 0.01% | 0.001% |
| 22 | 7.098 | 841 | 852 | 862 | rBV | 6859 | 22073 | 2.08% | 0.179% |
| 23 | 7.653 | 932 | 943 | 955 | rVB | 76249 | 186313 | 17.53% | 1.514% |
| 24 | 7.952 | 990 | 992 | 995 | rBB | 159 | 154 | 0.01% | 0.001% |
| 25 | 8.275 | 1036 | 1045 | 1062 | rBV2 | 138302 | 403085 | 37.93% | 3.275% |
| 26 | 8.415 | 1067 | 1068 | 1069 | rBV | 268 | 140 | 0.01% | 0.001% |
| 27 | 8.452 | 1073 | 1074 | 1075 | rBV | 270 | 181 | 0.02% | 0.001% |
| 28 | 8.555 | 1089 | 1091 | 1093 | rVB2 | 322 | 229 | 0.02% | 0.002% |
| 29 | 8.708 | 1111 | 1116 | 1121 | rBB2 | 263 | 562 | 0.05% | 0.005% |
| 30 | 8.842 | 1128 | 1138 | 1148 | rBV | 146311 | 290194 | 27.31% | 2.358% |
| 31 | 8.921 | 1148 | 1151 | 1155 | rVB | 151 | 242 | 0.02% | 0.002% |
| 32 | 9.061 | 1172 | 1174 | 1175 | rBV | 187 | 162 | 0.02% | 0.001% |
| 33 | 9.073 | 1175 | 1176 | 1179 | rVV | 571 | 485 | 0.05% | 0.004% |
| 34 | 9.147 | 1182 | 1188 | 1194 | rVB2 | 1842 | 3332 | 0.31% | 0.027% |
| 35 | 9.275 | 1201 | 1209 | 1215 | rBV | 95946 | 195497 | 18.39% | 1.588% |
| 36 | 9.329 | 1215 | 1218 | 1222 | rVV2 | 19764 | 33718 | 3.17% | 0.274% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % 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_W\Method\SFAMWLM120921SMA.M
Title : SFAM01.0

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 9.384 | 1222 | 1227 | 1237 | rVB2 | 23995 | 44889 | 4.22% | 0.365% |
| 38 | 9.573 | 1252 | 1258 | 1263 | rBV2 | 1430 | 2568 | 0.24% | 0.021% |
| 39 | 9.665 | 1269 | 1273 | 1277 | rBB2 | 400 | 521 | 0.05% | 0.004% |
| 40 | 9.756 | 1284 | 1288 | 1294 | rVB4 | 1258 | 2396 | 0.23% | 0.019% |
| 41 | 9.896 | 1304 | 1311 | 1316 | rBV | 18969 | 35999 | 3.39% | 0.292% |
| 42 | 9.939 | 1316 | 1318 | 1321 | rVB2 | 1620 | 1602 | 0.15% | 0.013% |
| 43 | 9.988 | 1321 | 1326 | 1330 | rBV | 26089 | 45787 | 4.31% | 0.372% |
| 44 | 10.037 | 1330 | 1334 | 1339 | rVB | 42861 | 66407 | 6.25% | 0.540% |
| 45 | 10.128 | 1344 | 1349 | 1355 | rVB | 19358 | 35639 | 3.35% | 0.290% |
| 46 | 10.250 | 1357 | 1369 | 1374 | rBV | 18594 | 40170 | 3.78% | 0.326% |
| 47 | 10.323 | 1374 | 1381 | 1388 | rBV | 203663 | 355496 | 33.45% | 2.888% |
| 48 | 10.390 | 1388 | 1392 | 1404 | rVB5 | 3295 | 7598 | 0.71% | 0.062% |
| 49 | 10.506 | 1405 | 1411 | 1415 | rBB4 | 862 | 1680 | 0.16% | 0.014% |
| 50 | 10.579 | 1415 | 1423 | 1428 | rBV | 33546 | 59320 | 5.58% | 0.482% |
| 51 | 10.695 | 1435 | 1442 | 1446 | rBV5 | 1605 | 3780 | 0.36% | 0.031% |
| 52 | 10.738 | 1446 | 1449 | 1451 | rVV2 | 3000 | 4431 | 0.42% | 0.036% |
| 53 | 10.768 | 1451 | 1454 | 1458 | rVV | 7012 | 13042 | 1.23% | 0.106% |
| 54 | 10.847 | 1462 | 1467 | 1473 | rVB | 20450 | 35466 | 3.34% | 0.288% |
| 55 | 10.933 | 1473 | 1481 | 1491 | rBV5 | 71859 | 154523 | 14.54% | 1.255% |
| 56 | 11.036 | 1491 | 1498 | 1506 | rVV2 | 52594 | 124285 | 11.69% | 1.010% |
| 57 | 11.110 | 1506 | 1510 | 1520 | rVV | 52222 | 96210 | 9.05% | 0.782% |
| 58 | 11.232 | 1520 | 1530 | 1535 | rVV | 96464 | 190630 | 17.94% | 1.549% |
| 59 | 11.280 | 1535 | 1538 | 1543 | rVV | 31992 | 57647 | 5.42% | 0.468% |
| 60 | 11.335 | 1543 | 1547 | 1550 | rVV2 | 33274 | 58578 | 5.51% | 0.476% |
| 61 | 11.378 | 1550 | 1554 | 1558 | rVV2 | 35875 | 66876 | 6.29% | 0.543% |
| 62 | 11.433 | 1558 | 1563 | 1571 | rVV | 105647 | 220910 | 20.79% | 1.795% |
| 63 | 11.506 | 1571 | 1575 | 1580 | rVB2 | 16476 | 24246 | 2.28% | 0.197% |
| 64 | 11.628 | 1588 | 1595 | 1604 | rBV | 220966 | 401348 | 37.76% | 3.261% |
| 65 | 11.762 | 1610 | 1617 | 1621 | rBV | 98053 | 171959 | 16.18% | 1.397% |
| 66 | 11.817 | 1621 | 1626 | 1629 | rVV2 | 97377 | 181245 | 17.05% | 1.472% |
| 67 | 11.872 | 1629 | 1635 | 1639 | rVV | 247523 | 458361 | 43.13% | 3.724% |
| 68 | 11.914 | 1639 | 1642 | 1648 | rVB2 | 125195 | 199390 | 18.76% | 1.620% |
| 69 | 11.975 | 1648 | 1652 | 1654 | rBV4 | 12194 | 21482 | 2.02% | 0.175% |
| 70 | 12.067 | 1664 | 1667 | 1670 | rBV | 16271 | 22058 | 2.08% | 0.179% |
| 71 | 12.134 | 1670 | 1678 | 1689 | rBV2 | 303458 | 807937 | 76.02% | 6.564% |
| 72 | 12.250 | 1689 | 1697 | 1701 | rVB2 | 143791 | 281312 | 26.47% | 2.285% |
| 73 | 12.298 | 1701 | 1705 | 1708 | rBV | 97049 | 169707 | 15.97% | 1.379% |
| 74 | 12.384 | 1713 | 1719 | 1727 | rVV3 | 207100 | 390882 | 36.78% | 3.176% |
| 75 | 12.567 | 1745 | 1749 | 1750 | rBV3 | 21136 | 28197 | 2.65% | 0.229% |
| 76 | 12.695 | 1762 | 1770 | 1775 | rBV4 | 128003 | 343559 | 32.33% | 2.791% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % 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_W\Method\SFAMWLM120921SMA.M
Title : SFAM01.0

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 12.780 | 1780 | 1784 | 1790 | rVB2 | 183675 | 341847 | 32.17% | 2.777% |
| 78 | 12.859 | 1790 | 1797 | 1801 | rBV4 | 120907 | 279939 | 26.34% | 2.274% |
| 79 | 12.939 | 1805 | 1810 | 1815 | rVV3 | 335857 | 698220 | 65.70% | 5.673% |
| 80 | 12.987 | 1816 | 1818 | 1824 | rVB2 | 126226 | 190318 | 17.91% | 1.546% |
| 81 | 13.079 | 1829 | 1833 | 1836 | rVV2 | 86668 | 114629 | 10.79% | 0.931% |
| 82 | 13.164 | 1843 | 1847 | 1850 | rBV2 | 144999 | 186401 | 17.54% | 1.514% |
| 83 | 13.249 | 1858 | 1861 | 1865 | rVB | 117351 | 148856 | 14.01% | 1.209% |
| 84 | 13.292 | 1865 | 1868 | 1871 | rVB | 60148 | 70177 | 6.60% | 0.570% |
| 85 | 13.377 | 1879 | 1882 | 1884 | rBV2 | 50056 | 71025 | 6.68% | 0.577% |
| 86 | 13.475 | 1896 | 1898 | 1902 | rVB3 | 48014 | 57391 | 5.40% | 0.466% |
| 87 | 13.554 | 1906 | 1911 | 1915 | rBV | 197574 | 333464 | 31.38% | 2.709% |
| 88 | 13.877 | 1955 | 1964 | 1969 | rBV2 | 393924 | 890378 | 83.78% | 7.234% |
| 89 | 14.194 | 2012 | 2016 | 2021 | rBV5 | 28986 | 48776 | 4.59% | 0.396% |
| 90 | 14.261 | 2023 | 2027 | 2032 | rVB4 | 35042 | 55347 | 5.21% | 0.450% |
| 91 | 14.322 | 2033 | 2037 | 2042 | rVB4 | 55311 | 87205 | 8.21% | 0.708% |
| 92 | 14.377 | 2042 | 2046 | 2049 | rBV | 78573 | 127788 | 12.02% | 1.038% |
| 93 | 14.414 | 2049 | 2052 | 2056 | rVB | 140281 | 189104 | 17.79% | 1.536% |
| 94 | 14.804 | 2110 | 2116 | 2119 | rBV7 | 28644 | 67892 | 6.39% | 0.552% |
| 95 | 14.999 | 2145 | 2148 | 2154 | rVB3 | 31988 | 46157 | 4.34% | 0.375% |
| 96 | 15.182 | 2173 | 2178 | 2182 | rBV3 | 42646 | 68802 | 6.47% | 0.559% |
| 97 | 15.359 | 2197 | 2207 | 2218 | rBV | 553316 | 1062778 | 100.00% | 8.634% |
| 98 | 15.627 | 2247 | 2251 | 2255 | rBV | 24986 | 53232 | 5.01% | 0.432% |
| 99 | 16.432 | 2378 | 2383 | 2396 | rVB | 58962 | 124795 | 11.74% | 1.014% |
| 100 | 16.639 | 2410 | 2417 | 2427 | rVB | 139908 | 331916 | 31.23% | 2.697% |

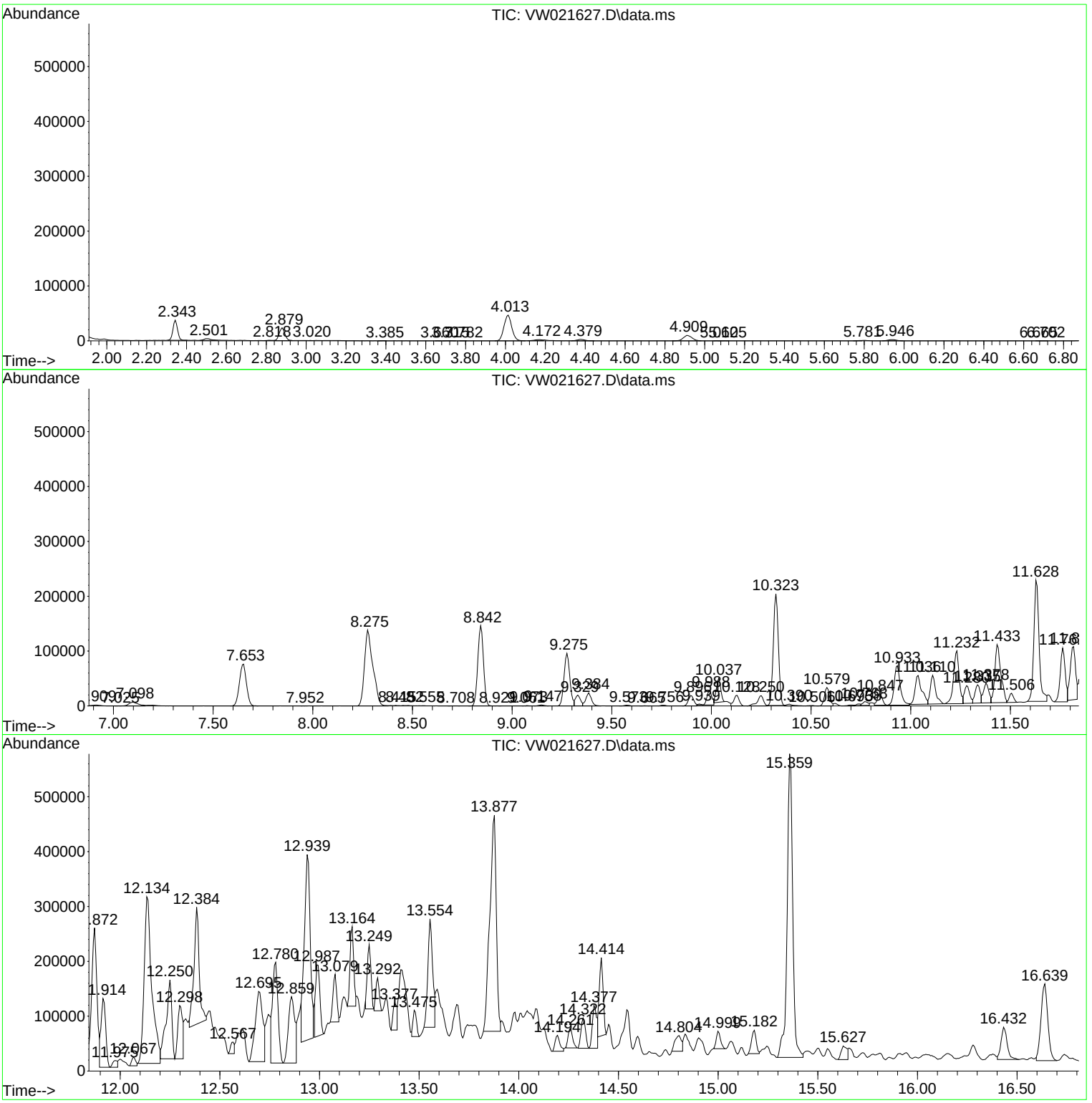
Sum of corrected areas: 12308852

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

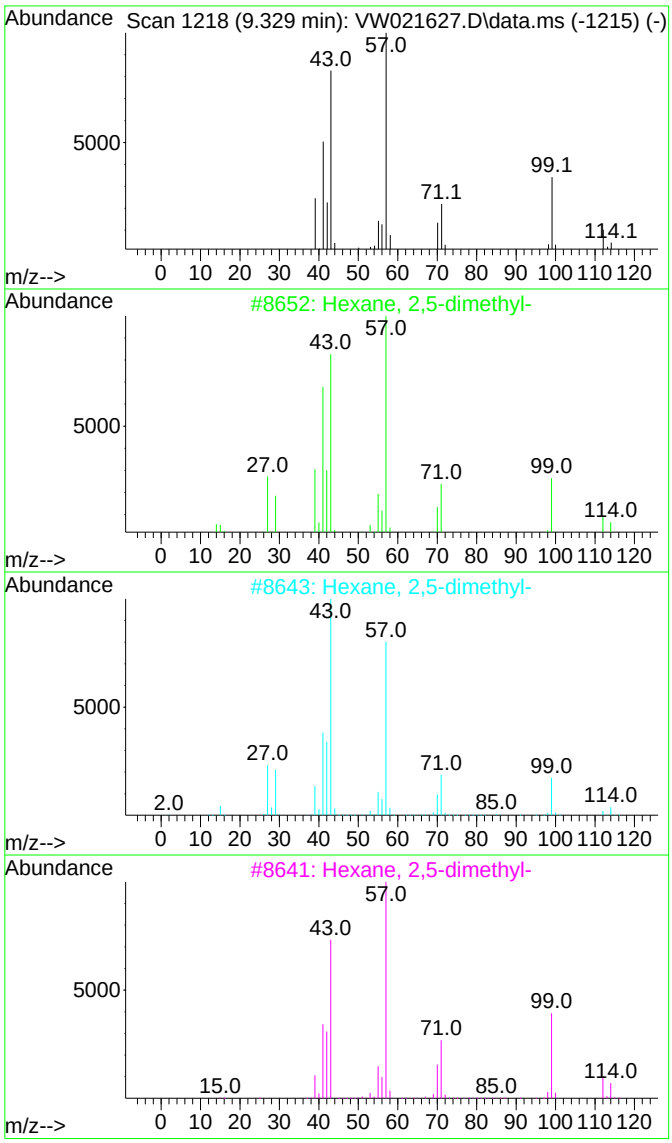
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

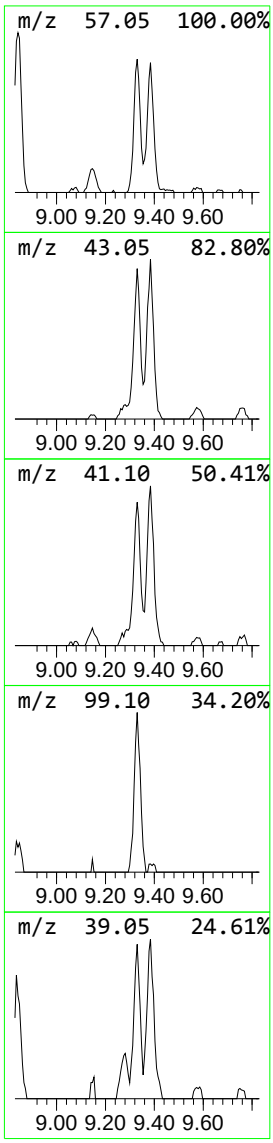
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 39

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.329 | 2.90 ug/L | 33718 | 1,4-Difluorobenzene | 8.842 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexane, 2,5-dimethyl- | 114 | C8H18 | 000592-13-2 | 78 |
| 2 | Hexane, 2,5-dimethyl- | 114 | C8H18 | 000592-13-2 | 72 |
| 3 | Hexane, 2,5-dimethyl- | 114 | C8H18 | 000592-13-2 | 72 |
| 4 | Hexanoyl chloride | 134 | C6H11ClO | 000142-61-0 | 40 |
| 5 | Hexanoyl chloride | 134 | C6H11ClO | 000142-61-0 | 40 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

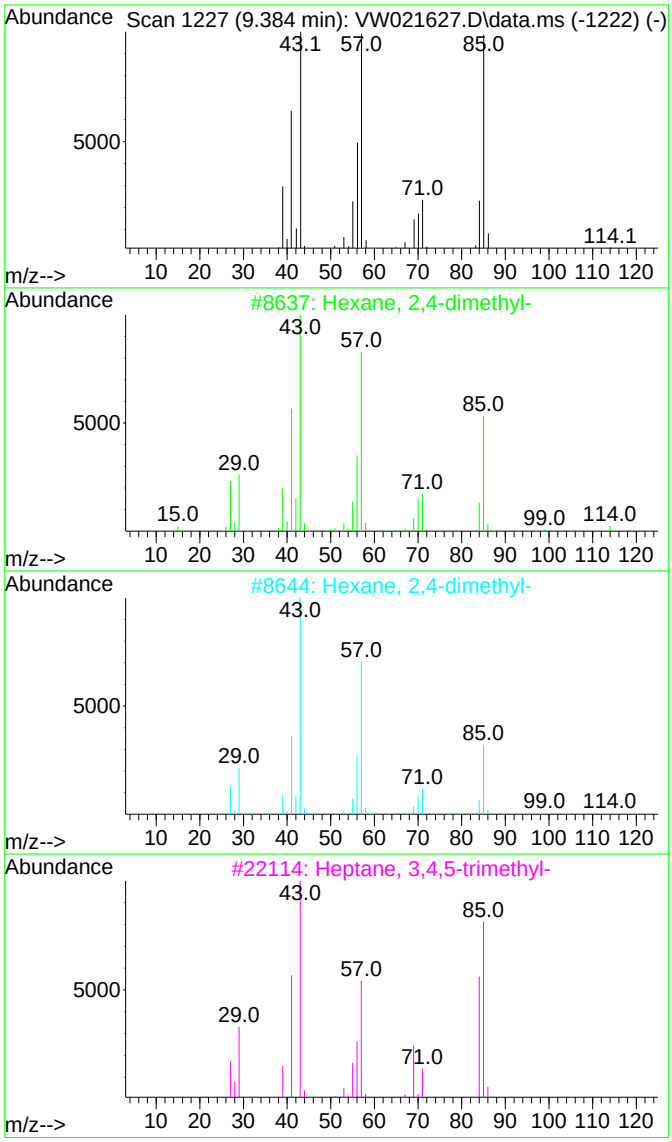
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

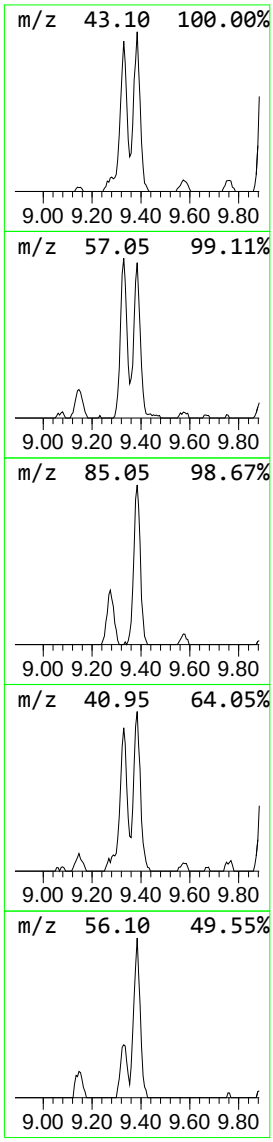
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.384 | 3.87 ug/L | 44889 | 1,4-Difluorobenzene | 8.842 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexane, 2,4-dimethyl- | 114 | C8H18 | 000589-43-5 | 78 |
| 2 | Hexane, 2,4-dimethyl- | 114 | C8H18 | 000589-43-5 | 74 |
| 3 | Heptane, 3,4,5-trimethyl- | 142 | C10H22 | 020278-89-1 | 72 |
| 4 | Hexane, 1-(hexyloxy)-2-methyl- | 200 | C13H28O | 074421-17-3 | 64 |
| 5 | Hexane, 2,4-dimethyl- | 114 | C8H18 | 000589-43-5 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

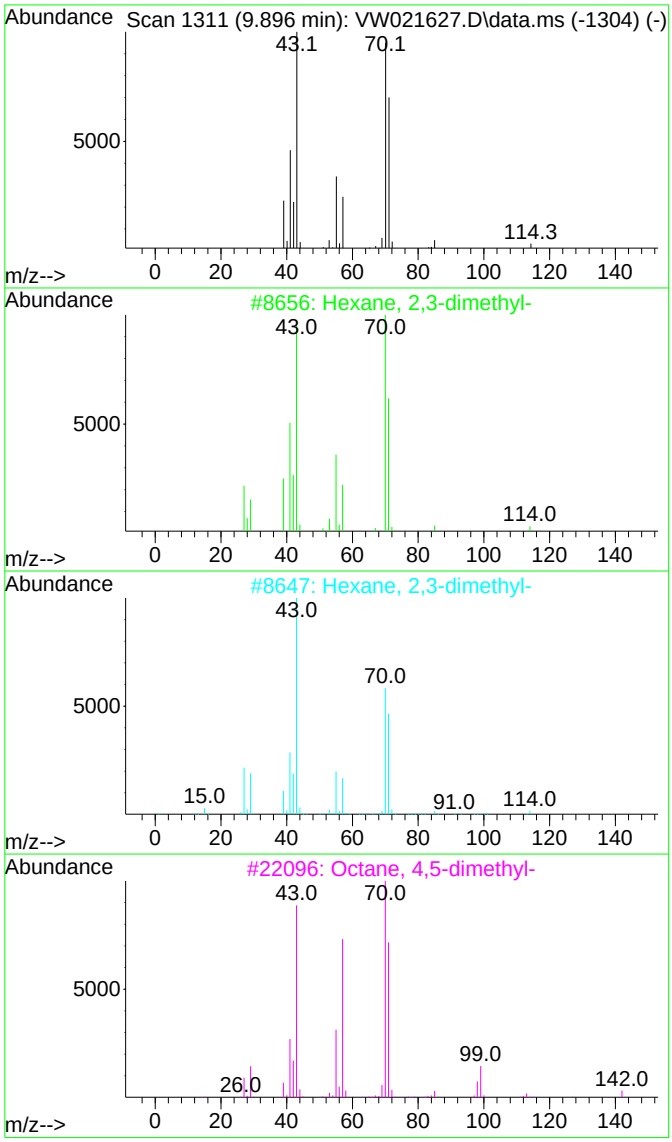
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

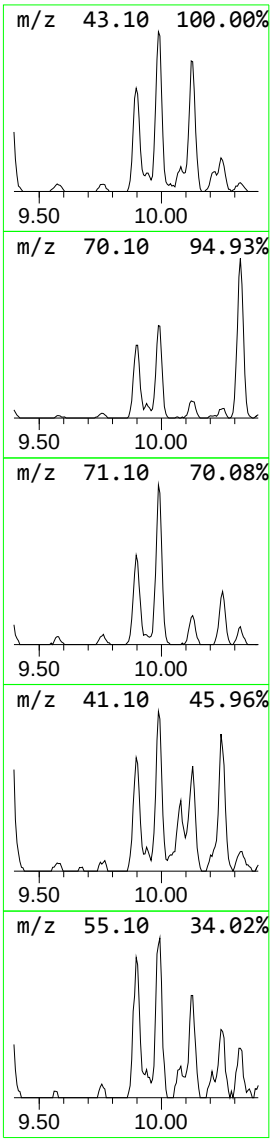
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 37

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.896 | 3.10 ug/L | 35999 | 1,4-Difluorobenzene | 8.842 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexane, 2,3-dimethyl- | 114 | C8H18 | 000584-94-1 | 91 |
| 2 | Hexane, 2,3-dimethyl- | 114 | C8H18 | 000584-94-1 | 87 |
| 3 | Octane, 4,5-dimethyl- | 142 | C10H22 | 015869-96-2 | 83 |
| 4 | 3,4-Diethyl hexane | 142 | C10H22 | 019398-77-7 | 78 |
| 5 | Pyrrolidine | 71 | C4H9N | 000123-75-1 | 78 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

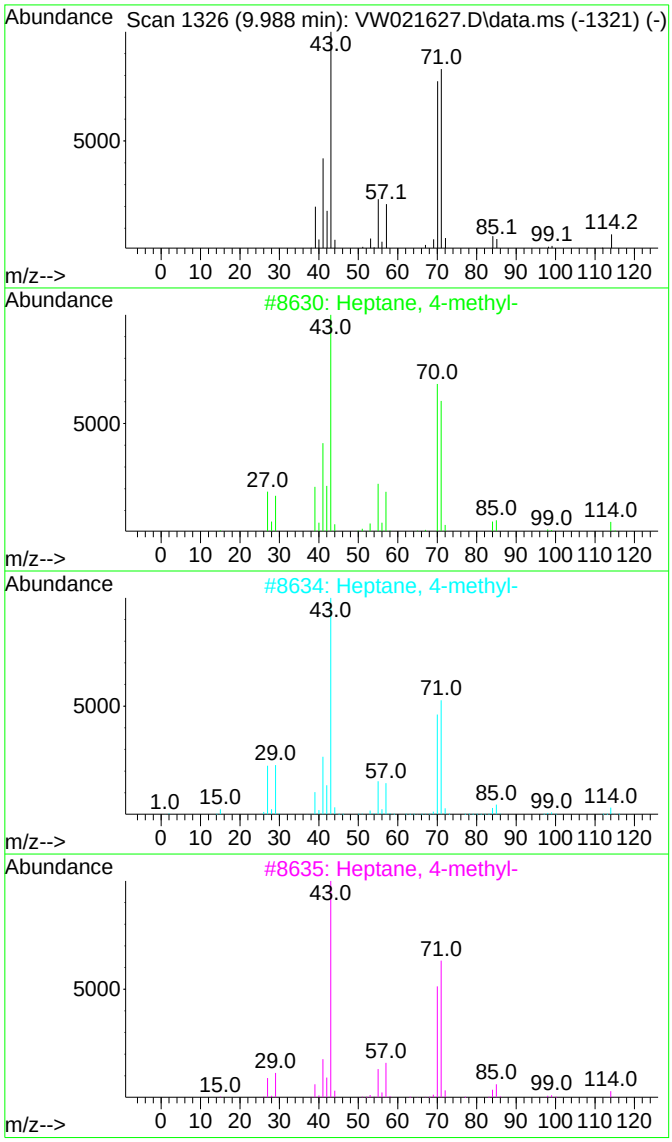
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

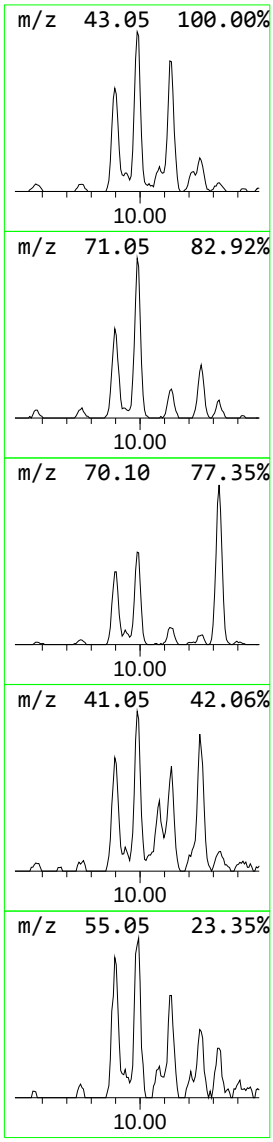
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.988 | 3.94 ug/L | 45787 | 1,4-Difluorobenzene | 8.842 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 4-methyl- | 114 | C8H18 | 000589-53-7 | 93 |
| 2 | Heptane, 4-methyl- | 114 | C8H18 | 000589-53-7 | 83 |
| 3 | Heptane, 4-methyl- | 114 | C8H18 | 000589-53-7 | 83 |
| 4 | Heptane, 4-methyl- | 114 | C8H18 | 000589-53-7 | 81 |
| 5 | Diisoamyl ether | 158 | C10H22O | 000544-01-4 | 78 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

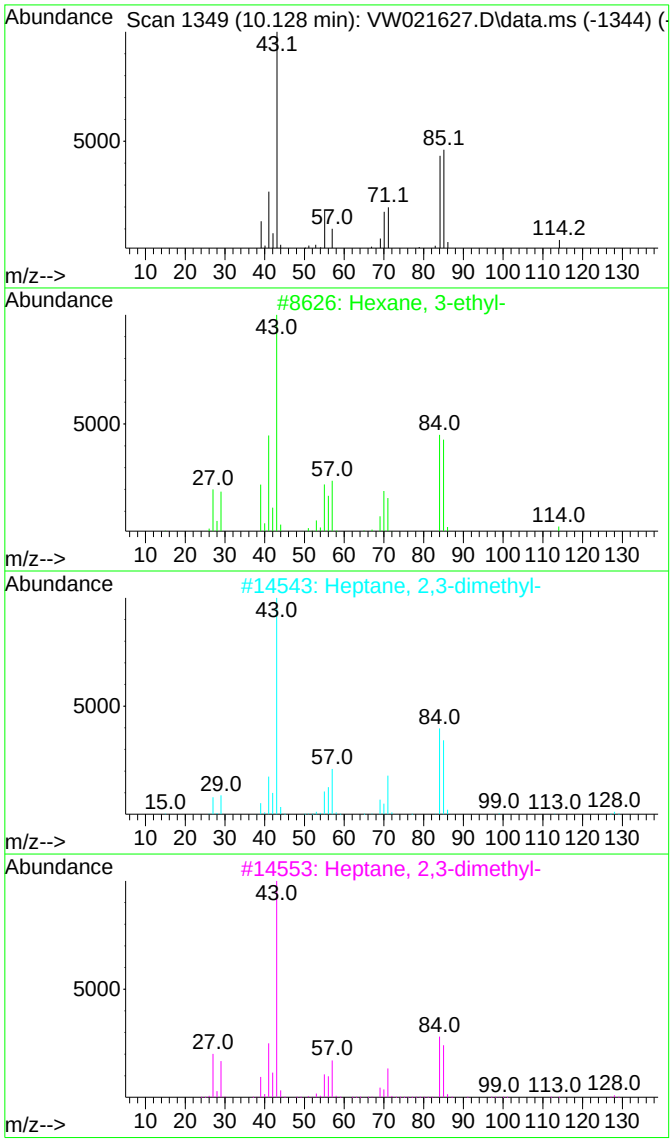
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

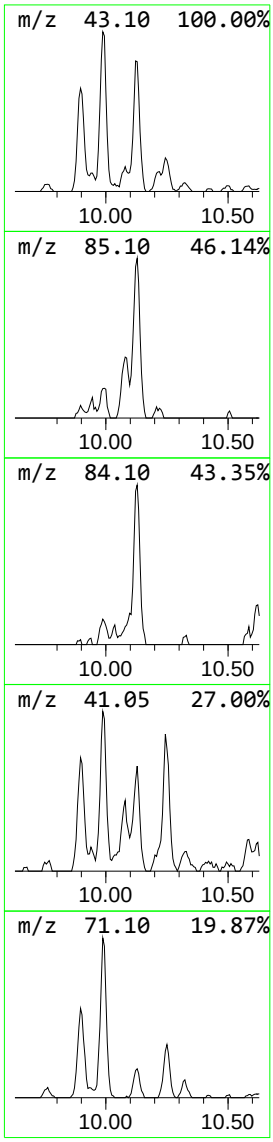
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 38

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.128 | 3.07 ug/L | 35639 | 1,4-Difluorobenzene | 8.842 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexane, 3-ethyl- | 114 | C8H18 | 000619-99-8 | 72 |
| 2 | Heptane, 2,3-dimethyl- | 128 | C9H20 | 003074-71-3 | 72 |
| 3 | Heptane, 2,3-dimethyl- | 128 | C9H20 | 003074-71-3 | 59 |
| 4 | Oxalic acid, isohexyl pentyl ester | 244 | C13H24O4 | 1000309-32-8 | 53 |
| 5 | Hexane, 3-ethyl- | 114 | C8H18 | 000619-99-8 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

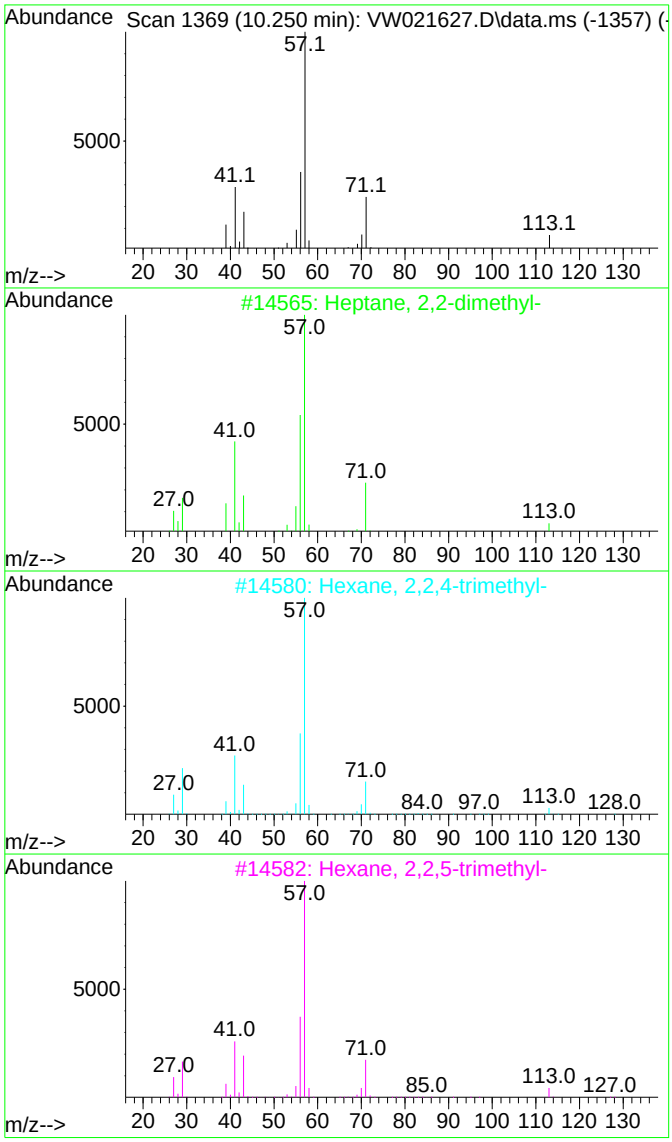
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

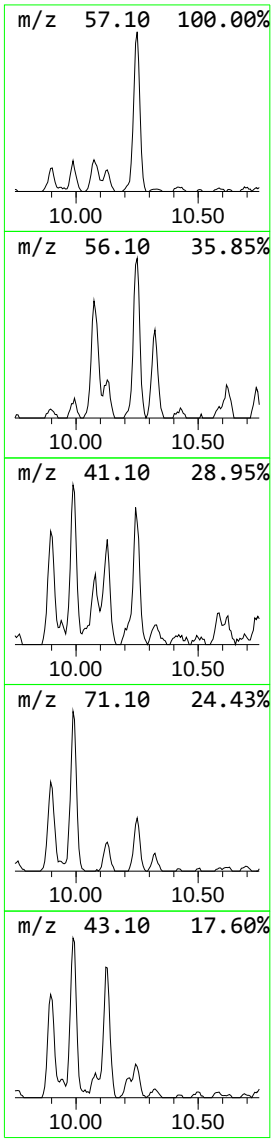
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 41

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.250 | 2.50 ug/L | 40170 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 2,2-dimethyl- | 128 | C9H20 | 001071-26-7 | 83 |
| 2 | Hexane, 2,2,4-trimethyl- | 128 | C9H20 | 016747-26-5 | 74 |
| 3 | Hexane, 2,2,5-trimethyl- | 128 | C9H20 | 003522-94-9 | 74 |
| 4 | Hexane, 2,2,5,5-tetramethyl- | 142 | C10H22 | 001071-81-4 | 72 |
| 5 | Hexane, 2,2,5-trimethyl- | 128 | C9H20 | 003522-94-9 | 72 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

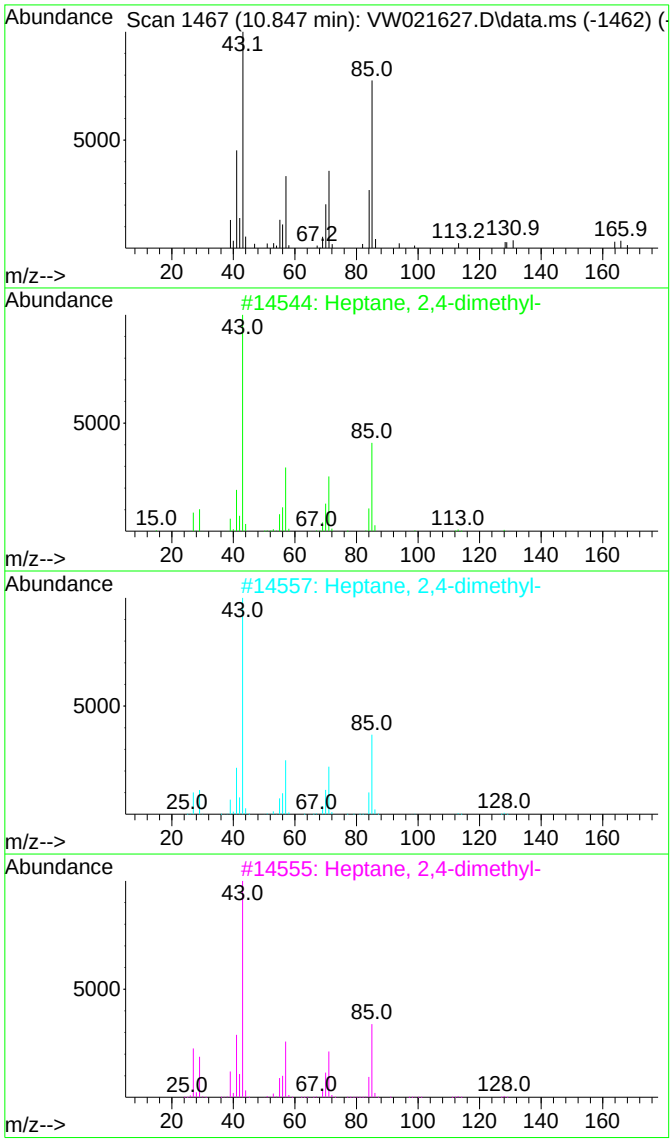
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

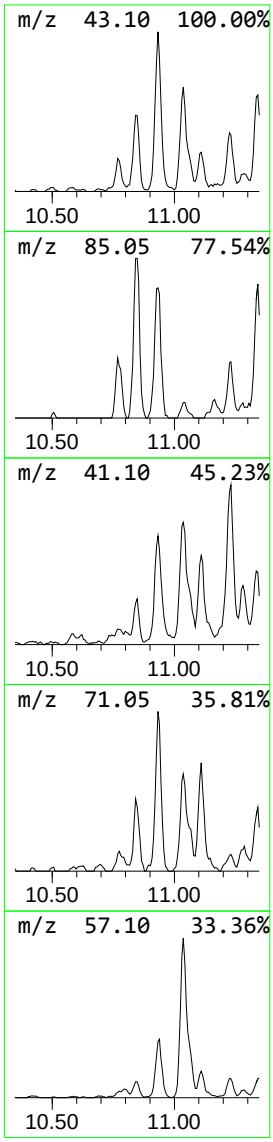
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 42

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.847 | 2.21 ug/L | 35466 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 2,4-dimethyl- | 128 | C9H20 | 002213-23-2 | 87 |
| 2 | Heptane, 2,4-dimethyl- | 128 | C9H20 | 002213-23-2 | 83 |
| 3 | Heptane, 2,4-dimethyl- | 128 | C9H20 | 002213-23-2 | 72 |
| 4 | Pentane, 3-ethyl-2,4-dimethyl- | 128 | C9H20 | 001068-87-7 | 59 |
| 5 | Pentane, 2,3,3,4-tetramethyl- | 128 | C9H20 | 016747-38-9 | 53 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

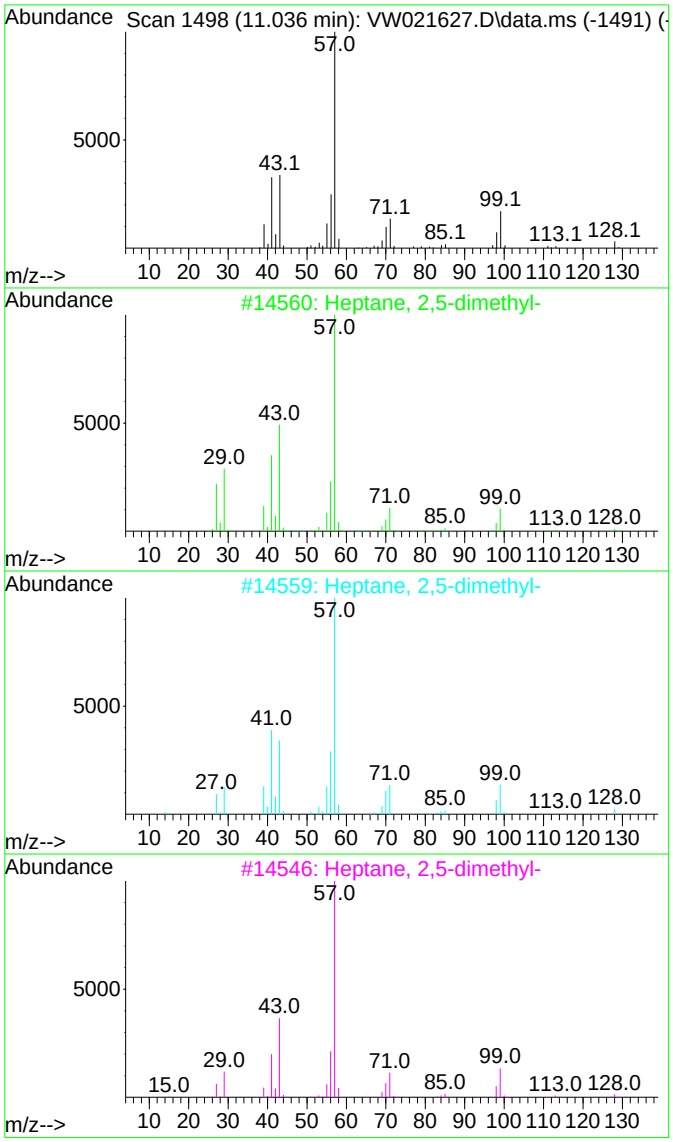
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

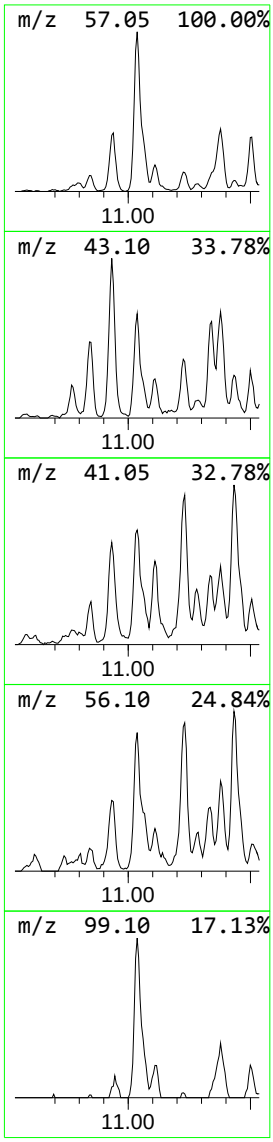
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.036 | 7.74 ug/L | 124285 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 91 |
| 2 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 91 |
| 3 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 91 |
| 4 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 86 |
| 5 | Heptane, 3,5-dimethyl- | 128 | C9H20 | 000926-82-9 | 81 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

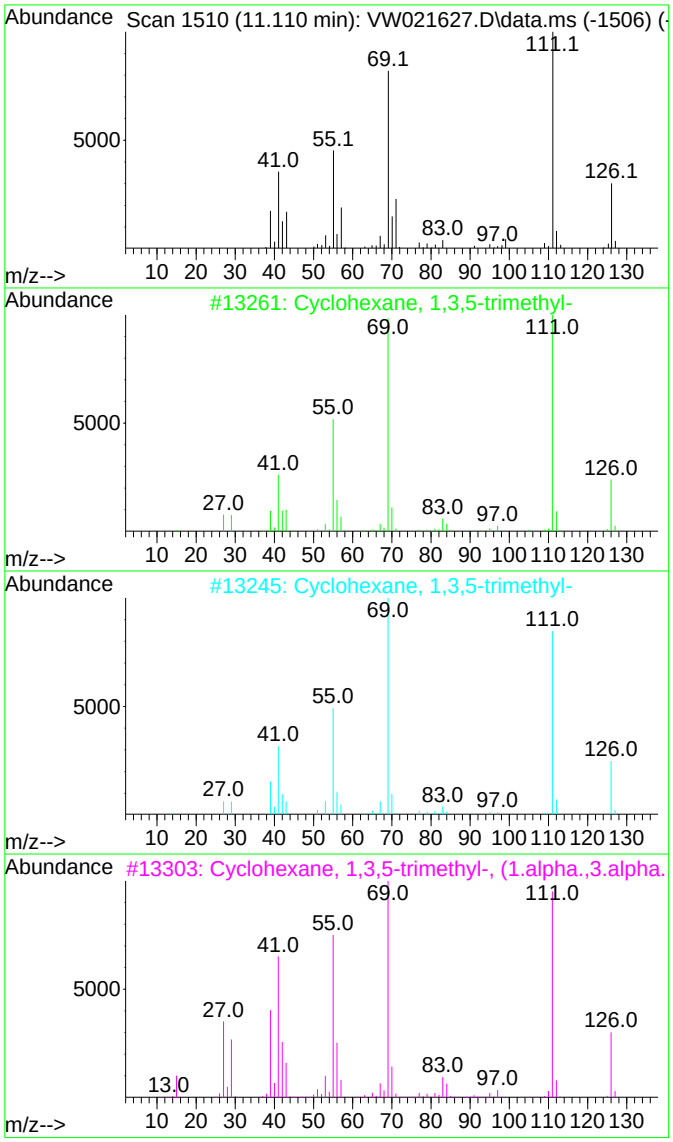
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

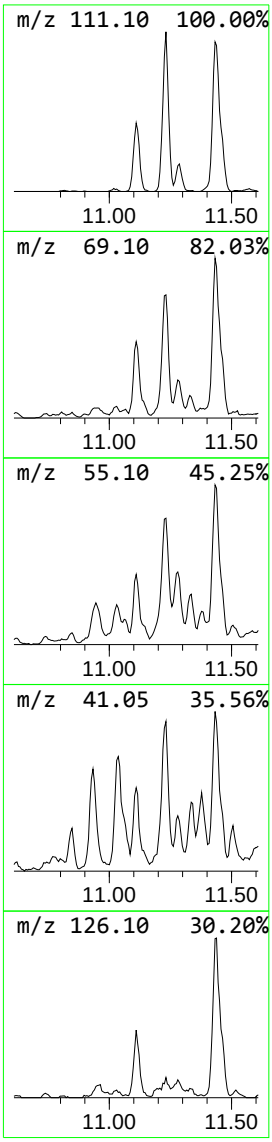
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 11 (DEL) Alkane: Cyclic11.110 Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.110 | 5.99 ug/L | 96210 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,3,5-trimethyl- | 126 | C9H18 | 001839-63-0 | 90 |
| 2 | Cyclohexane, 1,3,5-trimethyl- | 126 | C9H18 | 001839-63-0 | 87 |
| 3 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-26-2 | 87 |
| 4 | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18 | 007667-60-9 | 86 |
| 5 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-27-3 | 83 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

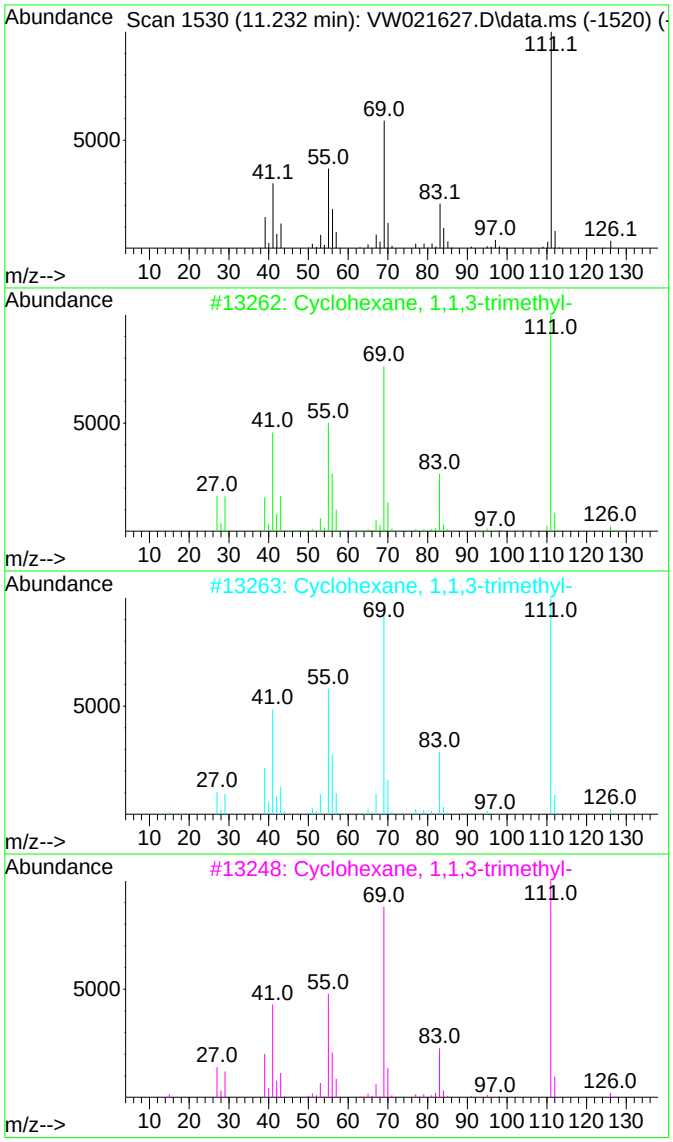
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

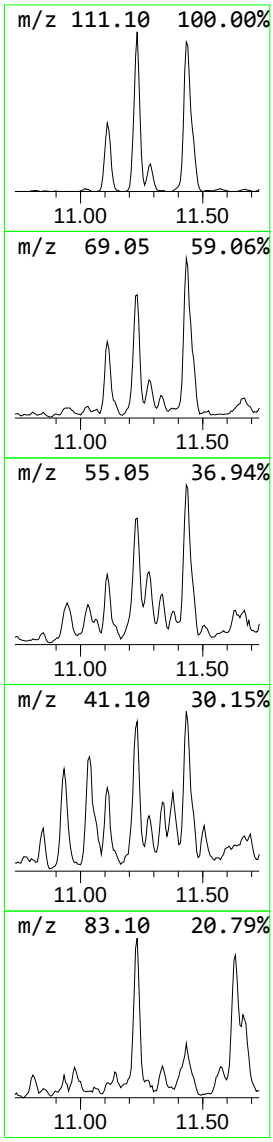
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 12 (DEL) Alkane: Cyclic11.232 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.232 | 11.87 ug/L | 190630 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 90 |
| 2 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 90 |
| 3 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 87 |
| 4 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 64 |
| 5 | 6-Methyl-hept-2-yn-4-ol | 126 | C8H14O | 060018-69-1 | 59 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

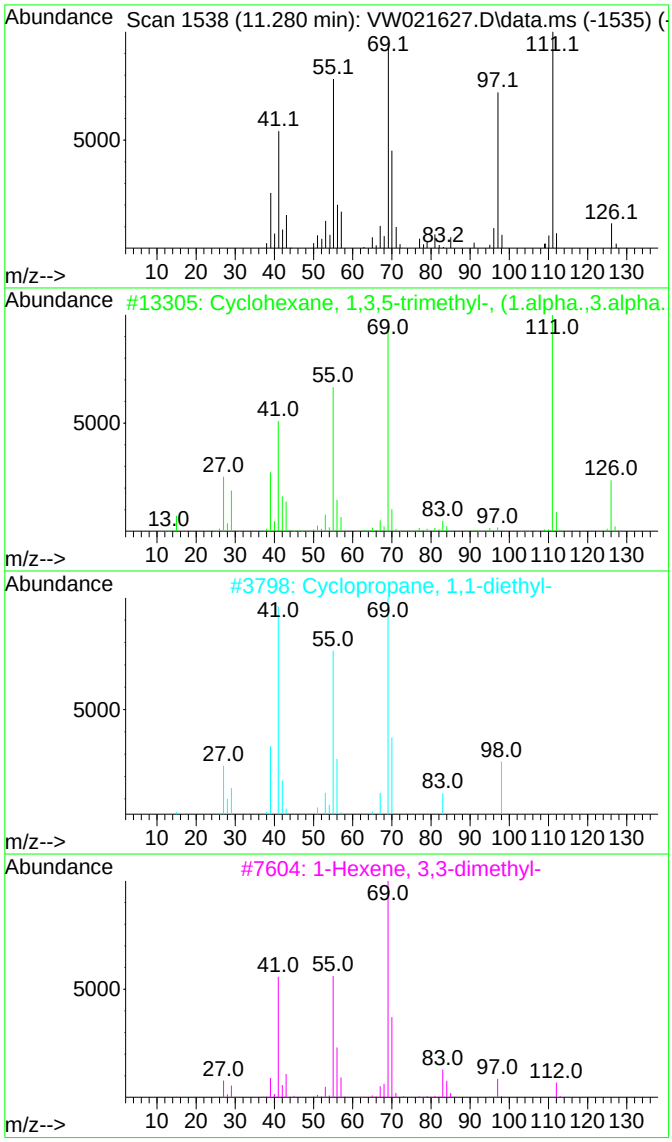
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

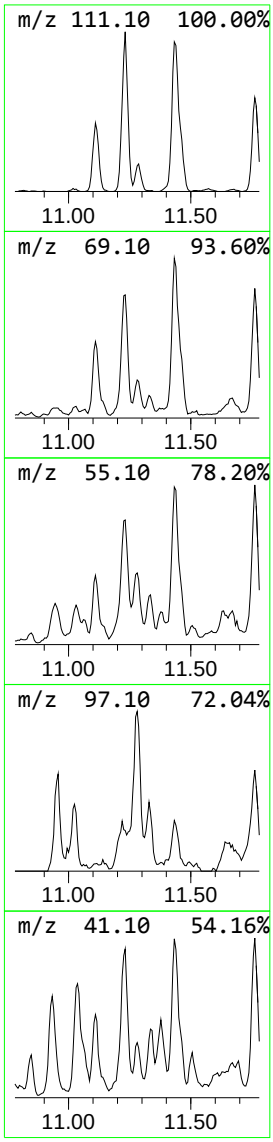
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 13 (DEL) Alkane: Cyclic11.280 Concentration Rank 35

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.280 | 3.59 ug/L | 57647 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-27-3 | 52 |
| 2 | Cyclopropane, 1,1-diethyl- | 98 | C7H14 | 001003-19-6 | 46 |
| 3 | 1-Hexene, 3,3-dimethyl- | 112 | C8H16 | 003404-77-1 | 43 |
| 4 | Cyclohexane, 1,4-dimethyl- | 112 | C8H16 | 000589-90-2 | 30 |
| 5 | 2-Pentene, 3-ethyl- | 98 | C7H14 | 000816-79-5 | 30 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

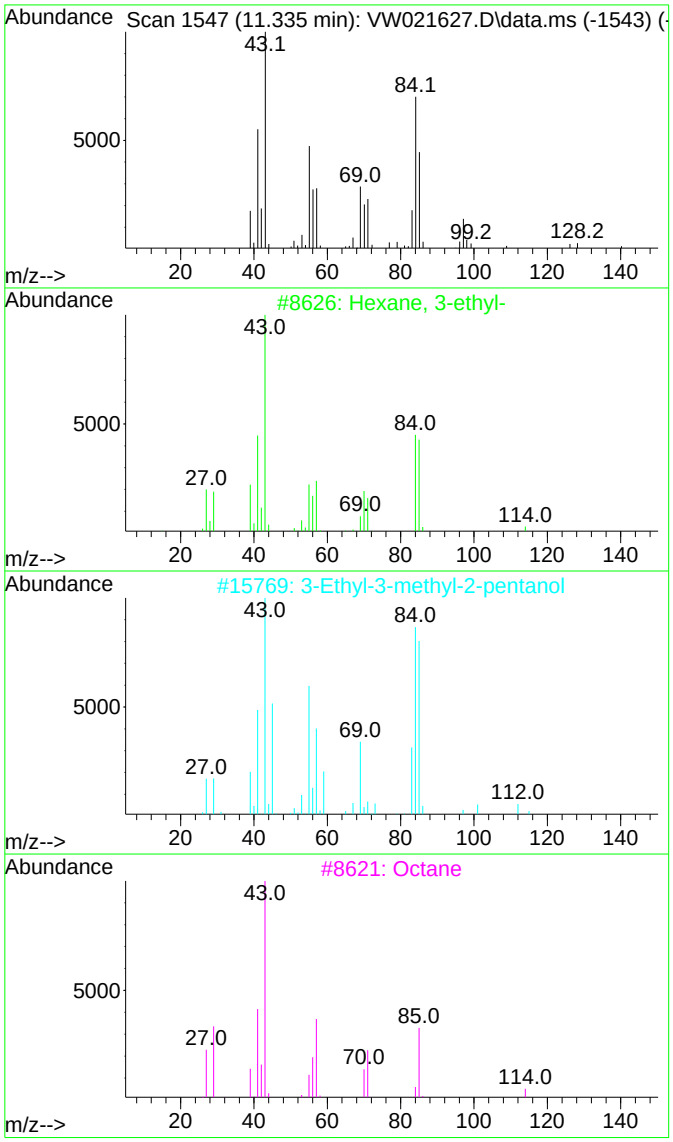
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

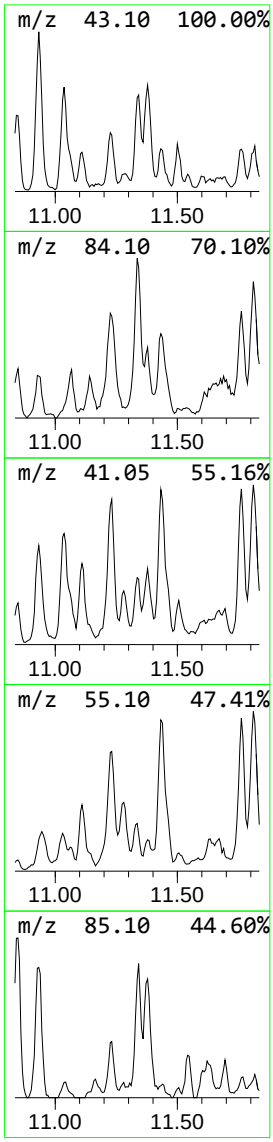
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 34

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.335 | 3.65 ug/L | 58578 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexane, 3-ethyl- | 114 | C8H18 | 000619-99-8 | 64 |
| 2 | 3-Ethyl-3-methyl-2-pentanol | 130 | C8H18O | 066576-22-5 | 50 |
| 3 | Octane | 114 | C8H18 | 000111-65-9 | 50 |
| 4 | Heptane, 2,3-dimethyl- | 128 | C9H20 | 003074-71-3 | 47 |
| 5 | 1-Octene, 4-methyl- | 126 | C9H18 | 013151-12-7 | 47 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

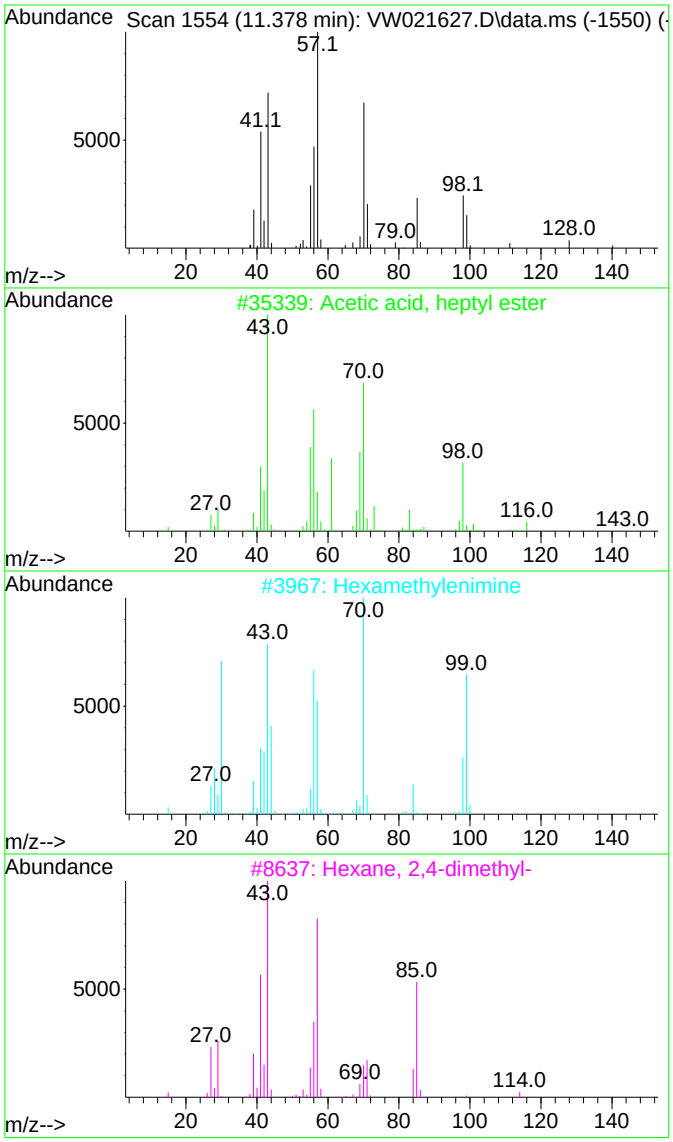
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

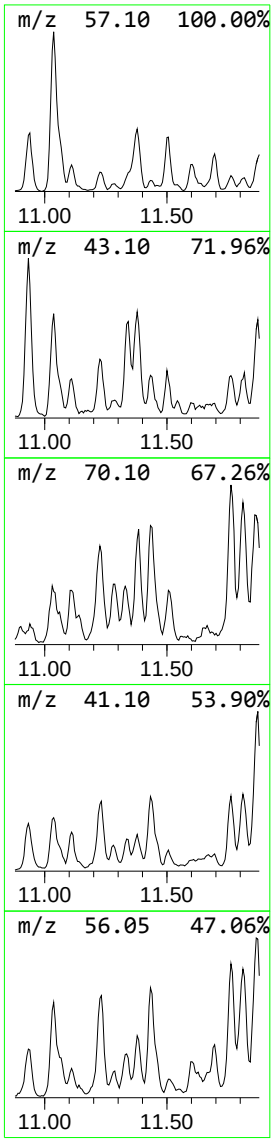
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 15 Acetic acid, heptyl ester Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.378 | 4.17 ug/L | 66876 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetic acid, heptyl ester | 158 | C9H18O2 | 000112-06-1 | 50 |
| 2 | Hexamethylenimine | 99 | C6H13N | 000111-49-9 | 49 |
| 3 | Hexane, 2,4-dimethyl- | 114 | C8H18 | 000589-43-5 | 49 |
| 4 | Propanoic acid, 2,2-dimethyl-, 2... | 214 | C13H26O2 | 016387-18-1 | 47 |
| 5 | Hexane, 2,4-dimethyl- | 114 | C8H18 | 000589-43-5 | 47 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

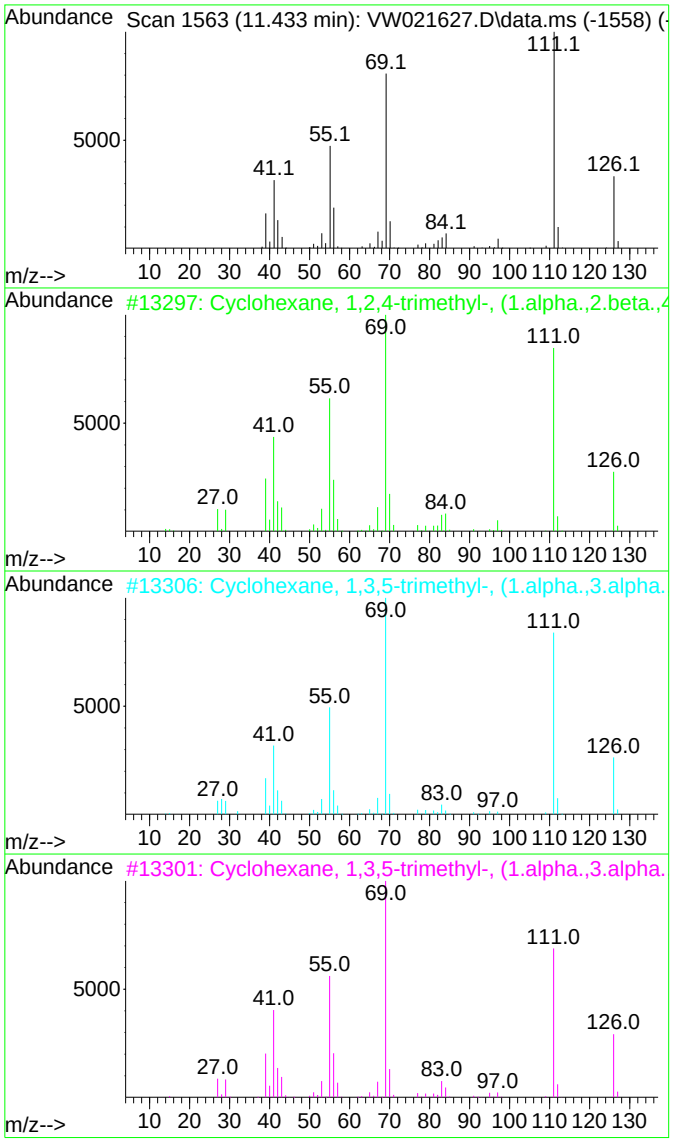
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

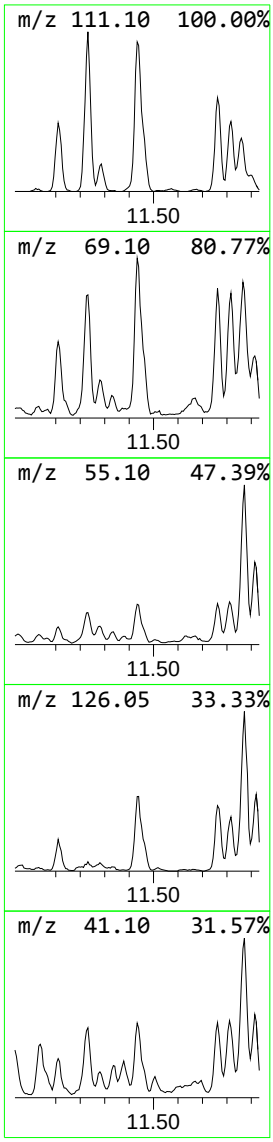
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 16 (DEL) Alkane: Cyclic11.433 Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.433 | 13.76 ug/L | 220910 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18 | 007667-60-9 | 95 |
| 2 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-27-3 | 91 |
| 3 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-26-2 | 91 |
| 4 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-26-2 | 91 |
| 5 | Cyclohexane, 1,3,5-trimethyl- | 126 | C9H18 | 001839-63-0 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

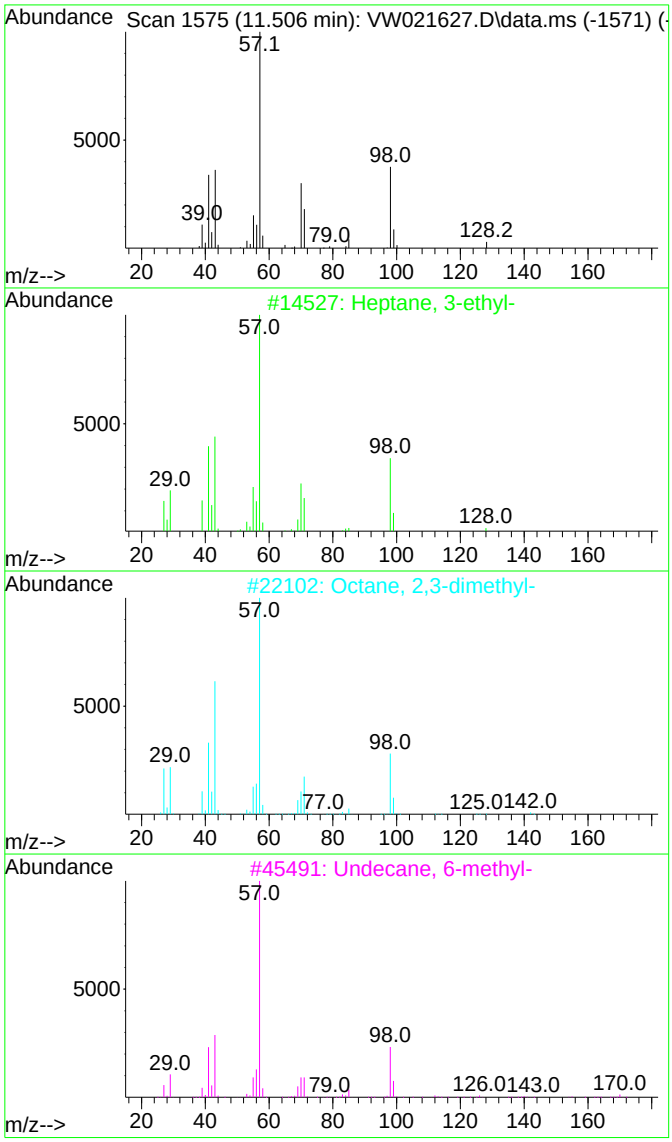
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

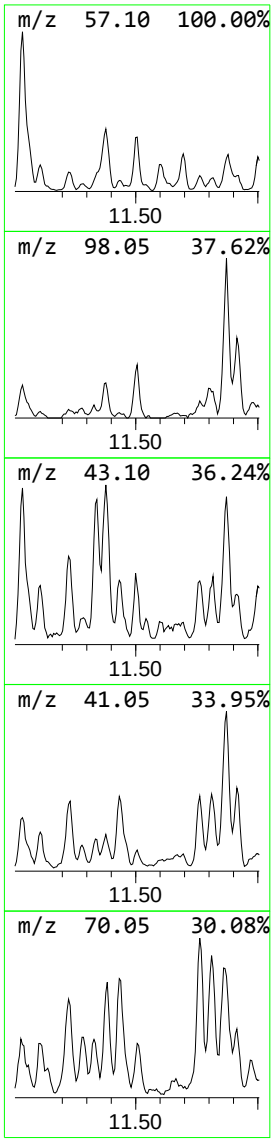
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 17 (DEL) Alkane: Straight-Chai... Concentration Rank 44

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.506 | 1.51 ug/L | 24246 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 3-ethyl- | 128 | C9H20 | 015869-80-4 | 80 |
| 2 | Octane, 2,3-dimethyl- | 142 | C10H22 | 007146-60-3 | 72 |
| 3 | Undecane, 6-methyl- | 170 | C12H26 | 017302-33-9 | 64 |
| 4 | Octane, 2,3-dimethyl- | 142 | C10H22 | 007146-60-3 | 56 |
| 5 | Heptane, 4-propyl- | 142 | C10H22 | 003178-29-8 | 53 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

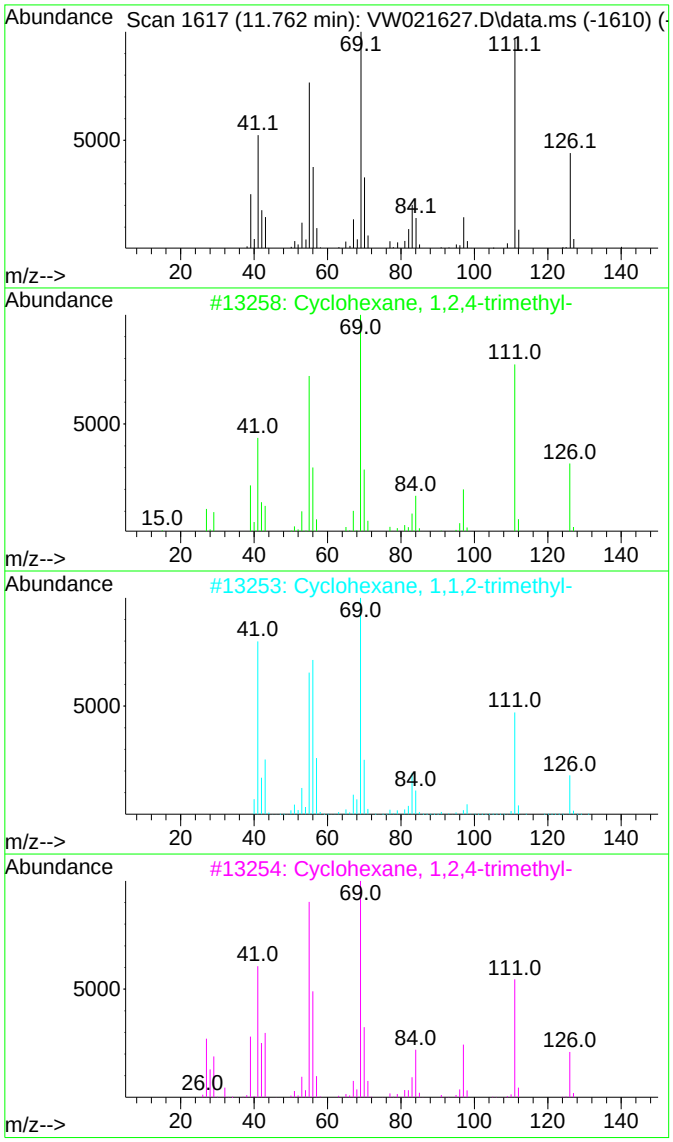
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

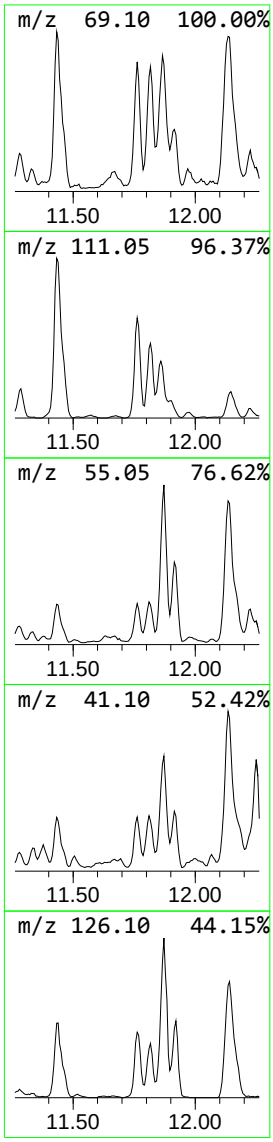
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 18 (DEL) Alkane: Cyclic11.762 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.762 | 10.71 ug/L | 171959 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,2,4-trimethyl- | 126 | C9H18 | 002234-75-5 | 91 |
| 2 | Cyclohexane, 1,1,2-trimethyl- | 126 | C9H18 | 007094-26-0 | 90 |
| 3 | Cyclohexane, 1,2,4-trimethyl- | 126 | C9H18 | 002234-75-5 | 87 |
| 4 | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18 | 007667-60-9 | 87 |
| 5 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-26-2 | 83 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

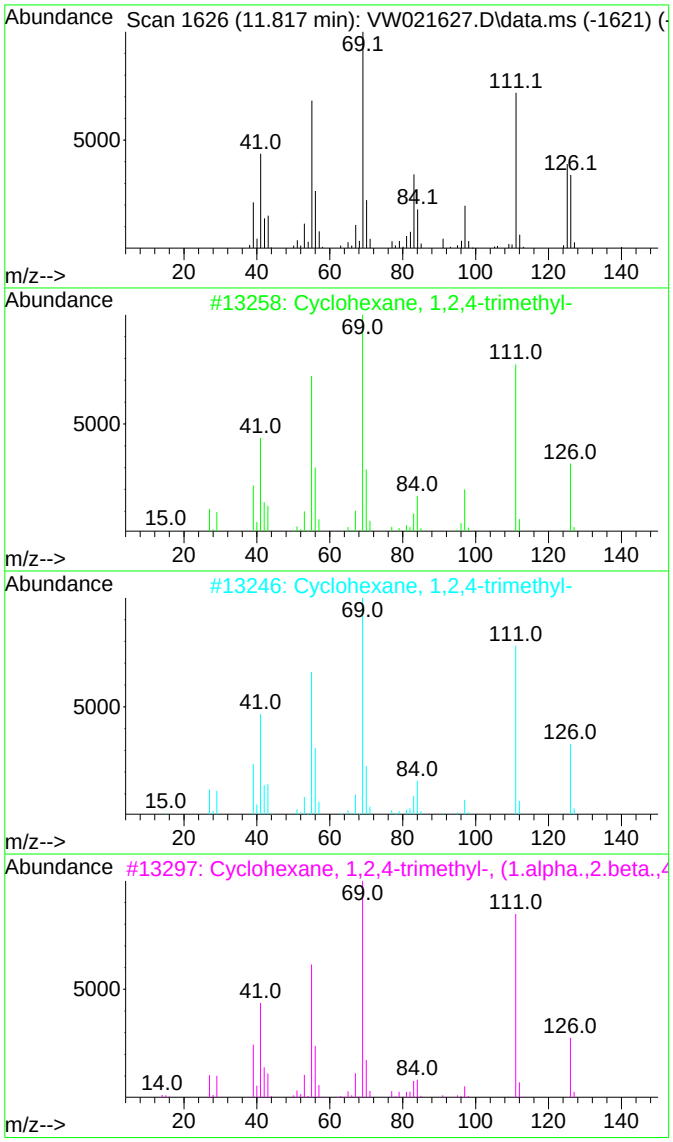
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

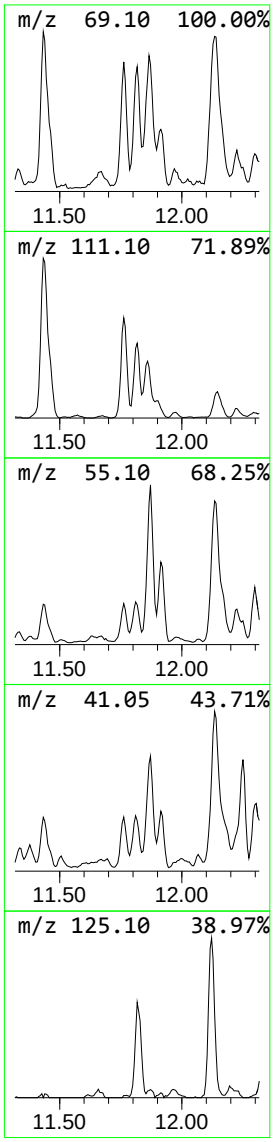
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 19 (DEL) Alkane: Cyclic11.817 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.817 | 11.29 ug/L | 181245 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,2,4-trimethyl- | 126 | C9H18 | 002234-75-5 | 97 |
| 2 | Cyclohexane, 1,2,4-trimethyl- | 126 | C9H18 | 002234-75-5 | 93 |
| 3 | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18 | 007667-60-9 | 91 |
| 4 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-26-2 | 64 |
| 5 | Cyclohexane, 1,2,3-trimethyl-, (... | 126 | C9H18 | 001678-81-5 | 62 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

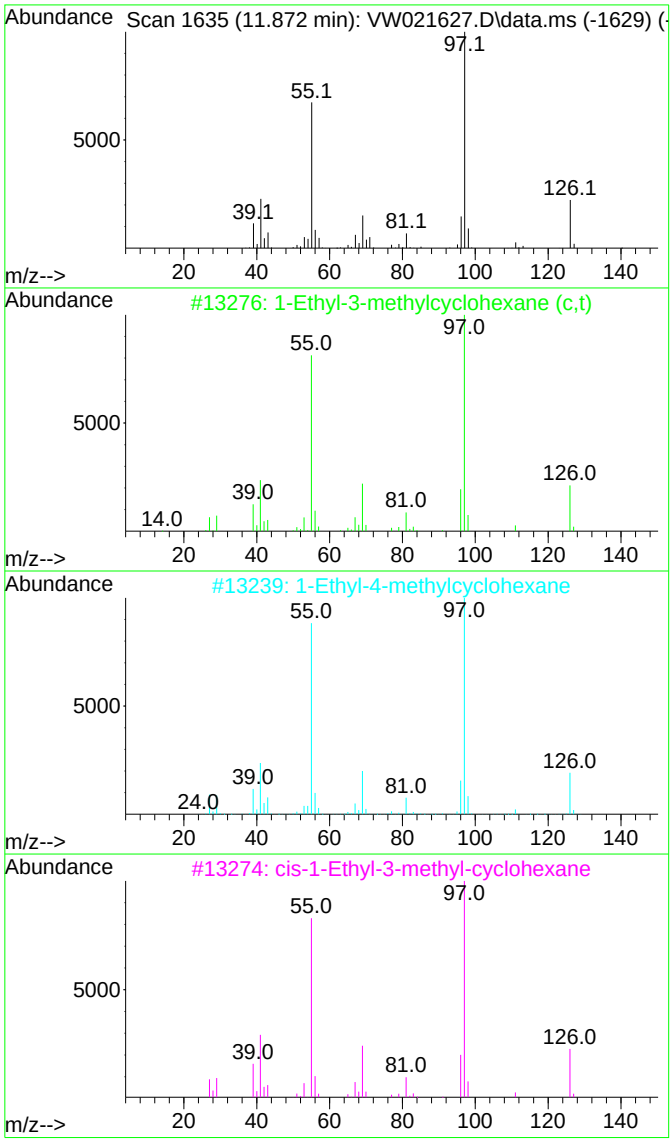
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

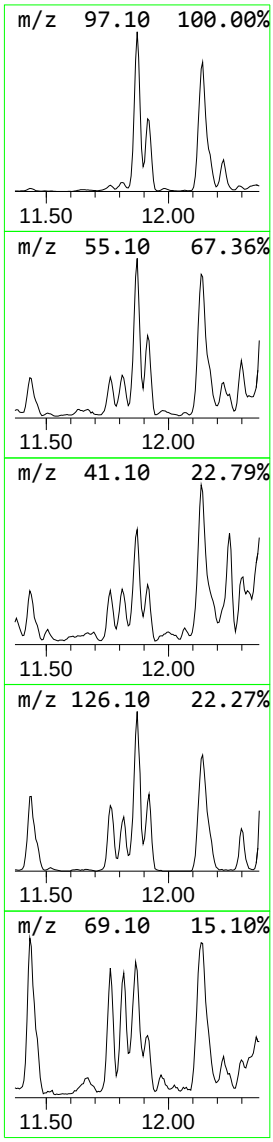
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 20 (DEL) Alkane: Cyclic11.872 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.872 | 28.55 ug/L | 458361 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Ethyl-3-methylcyclohexane (c,t) | 126 | C9H18 | 003728-55-0 | 91 |
| 2 | 1-Ethyl-4-methylcyclohexane | 126 | C9H18 | 003728-56-1 | 91 |
| 3 | cis-1-Ethyl-3-methyl-cyclohexane | 126 | C9H18 | 019489-10-2 | 91 |
| 4 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 004926-78-7 | 90 |
| 5 | 3,5-Dimethyl-3-heptene | 126 | C9H18 | 059643-68-4 | 87 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

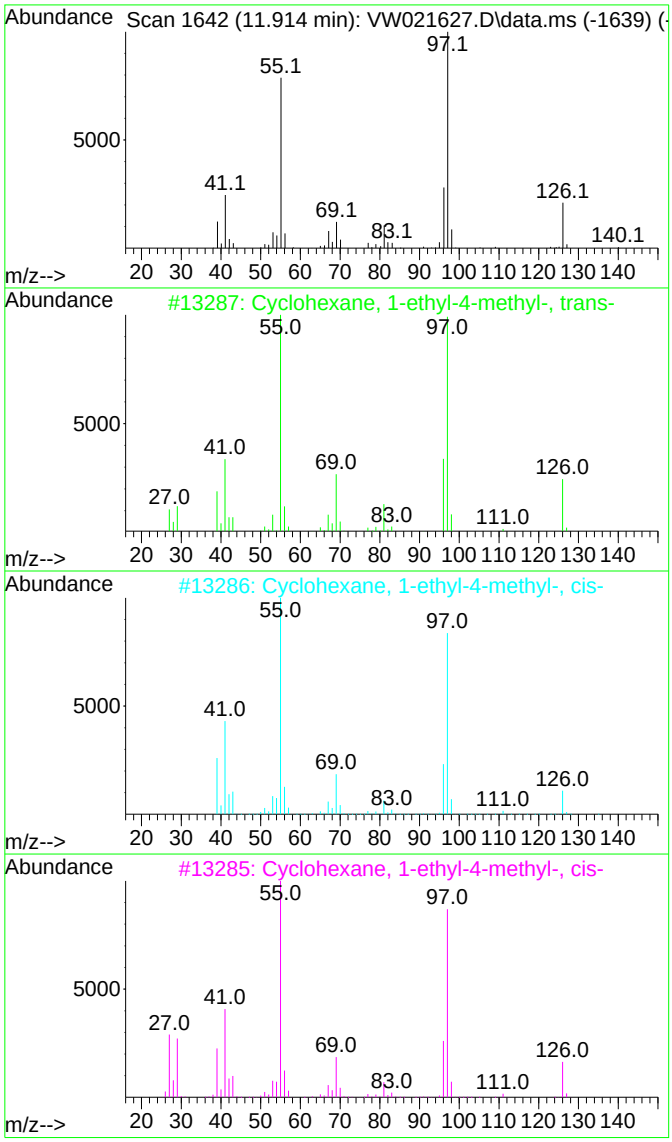
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

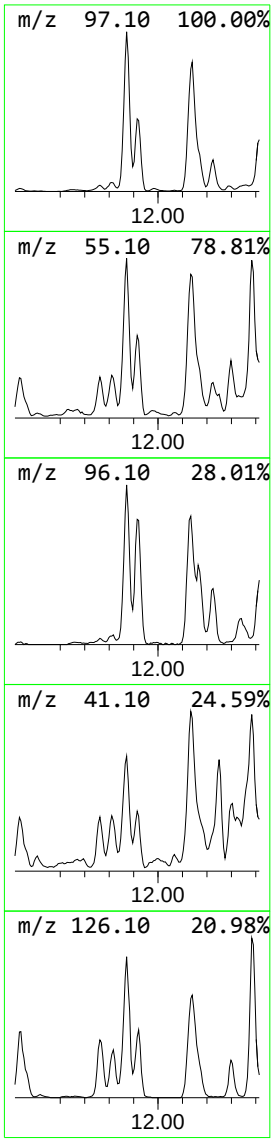
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 21 (DEL) Alkane: Cyclic11.914 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.914 | 12.42 ug/L | 199390 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 006236-88-0 | 90 |
| 2 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 004926-78-7 | 87 |
| 3 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 004926-78-7 | 87 |
| 4 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 006236-88-0 | 87 |
| 5 | 1-Ethyl-3-methylcyclohexane (c,t) | 126 | C9H18 | 003728-55-0 | 83 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

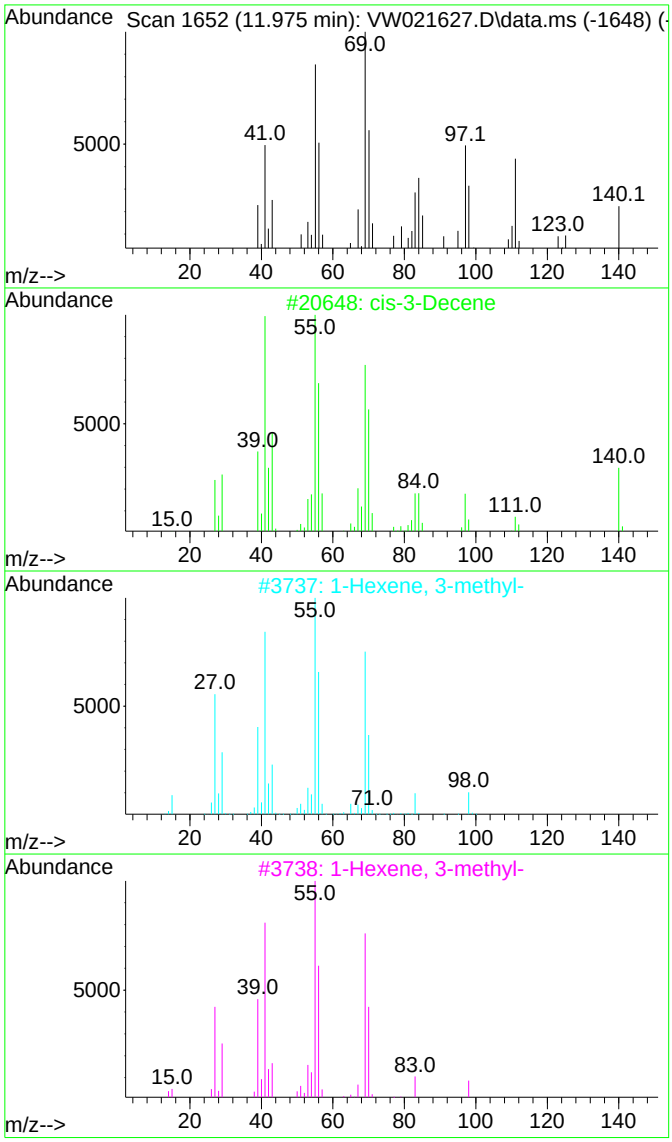
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

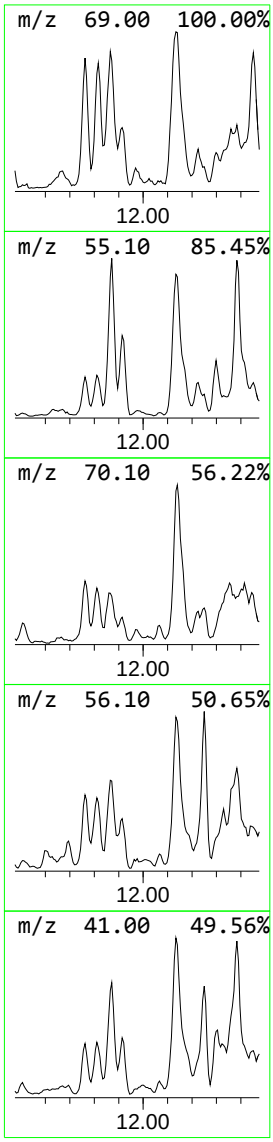
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 22 (DEL) Alkane: Straight-Chai... Concentration Rank 46

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.975 | 1.34 ug/L | 21482 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | cis-3-Decene | 140 | C10H20 | 019398-86-8 | 62 |
| 2 | 1-Hexene, 3-methyl- | 98 | C7H14 | 003404-61-3 | 49 |
| 3 | 1-Hexene, 3-methyl- | 98 | C7H14 | 003404-61-3 | 49 |
| 4 | 1-Hexene, 3-methyl- | 98 | C7H14 | 003404-61-3 | 49 |
| 5 | Cyclopropane, 1,1-diethyl- | 98 | C7H14 | 001003-19-6 | 43 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

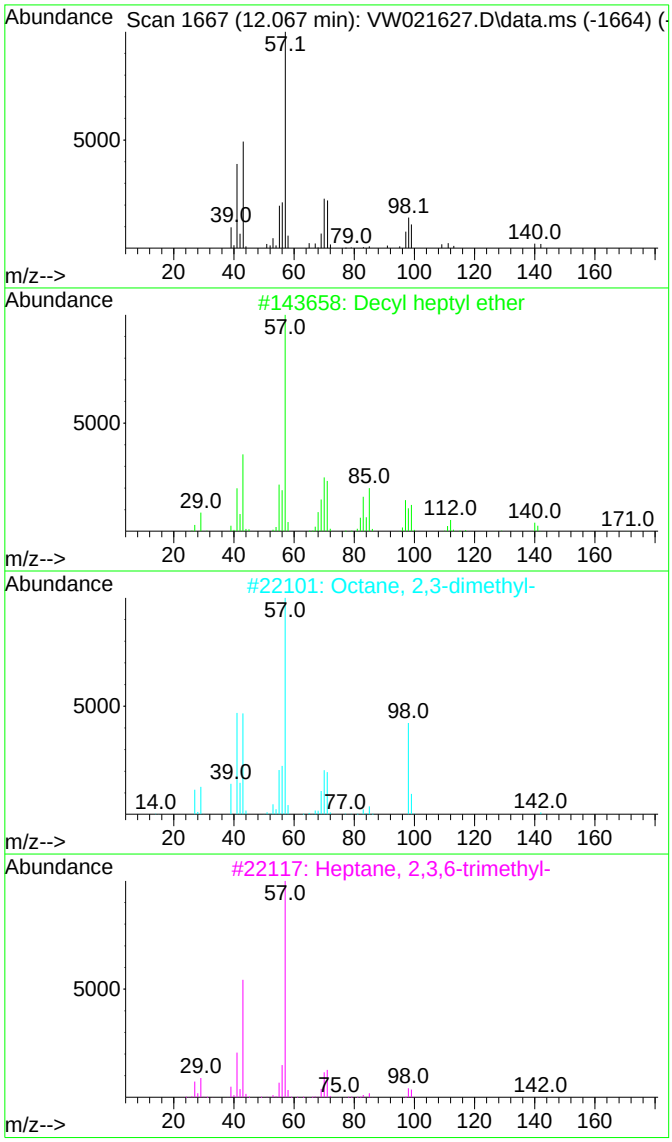
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

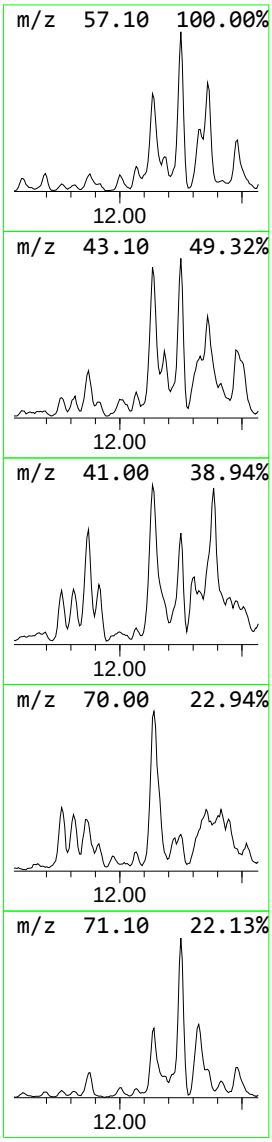
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 23 Decyl heptyl ether Concentration Rank 45

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.067 | 1.37 ug/L | 22058 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decyl heptyl ether | 256 | C17H36O | 1000406-39-1 | 56 |
| 2 | Octane, 2,3-dimethyl- | 142 | C10H22 | 007146-60-3 | 50 |
| 3 | Heptane, 2,3,6-trimethyl- | 142 | C10H22 | 004032-93-3 | 50 |
| 4 | Heptane, 3-ethyl- | 128 | C9H20 | 015869-80-4 | 50 |
| 5 | Heptane, 3,5-dimethyl- | 128 | C9H20 | 000926-82-9 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

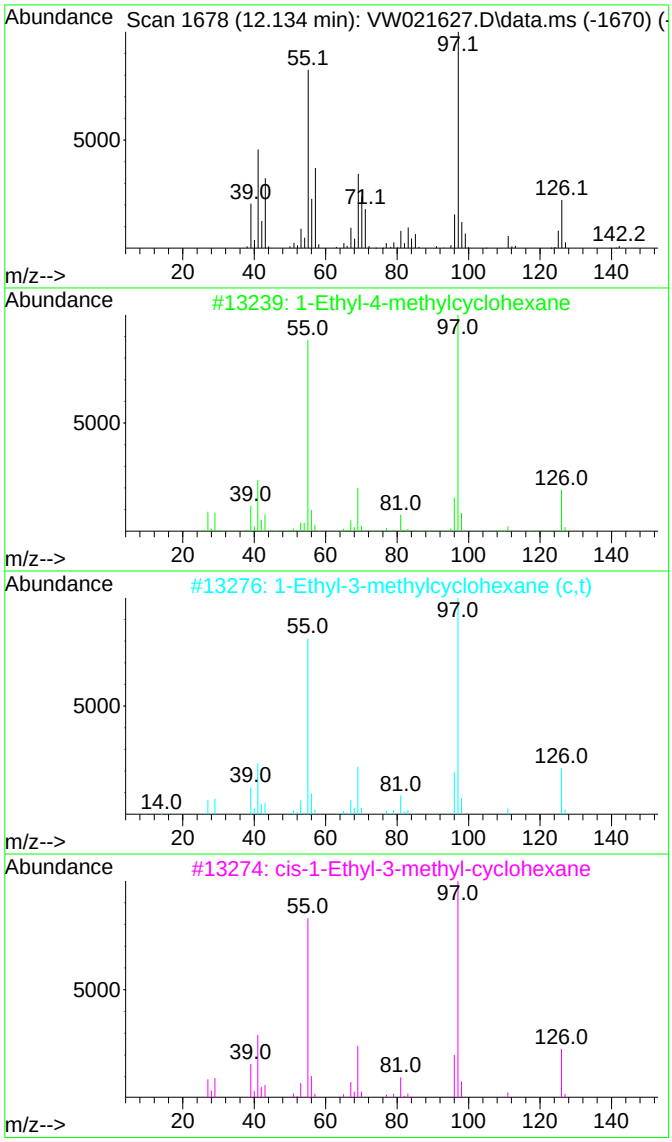
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

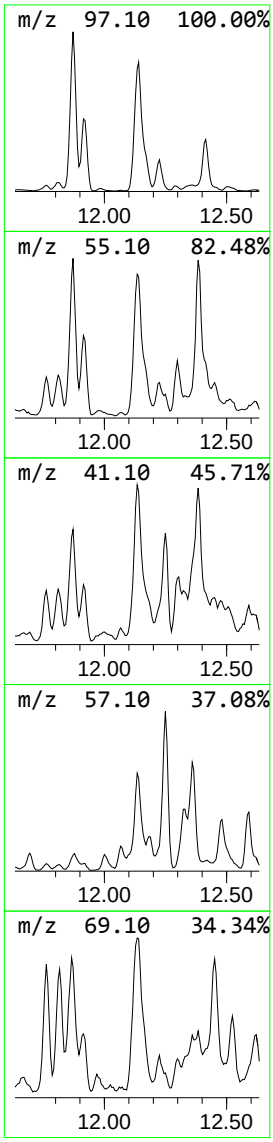
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 24 (DEL) Alkane: Cyclic12.134 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.134 | 50.33 ug/L | 807937 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Ethyl-4-methylcyclohexane | 126 | C9H18 | 003728-56-1 | 76 |
| 2 | 1-Ethyl-3-methylcyclohexane (c,t) | 126 | C9H18 | 003728-55-0 | 68 |
| 3 | cis-1-Ethyl-3-methyl-cyclohexane | 126 | C9H18 | 019489-10-2 | 68 |
| 4 | 3,5-Dimethyl-3-heptene | 126 | C9H18 | 059643-68-4 | 64 |
| 5 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 004926-78-7 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

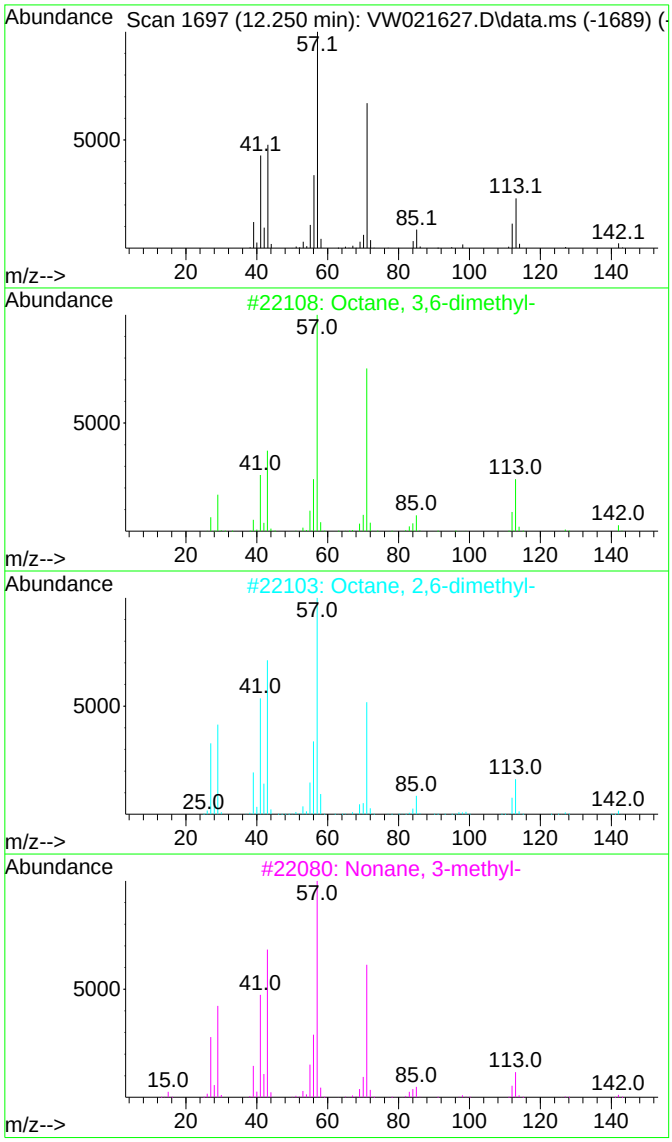
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

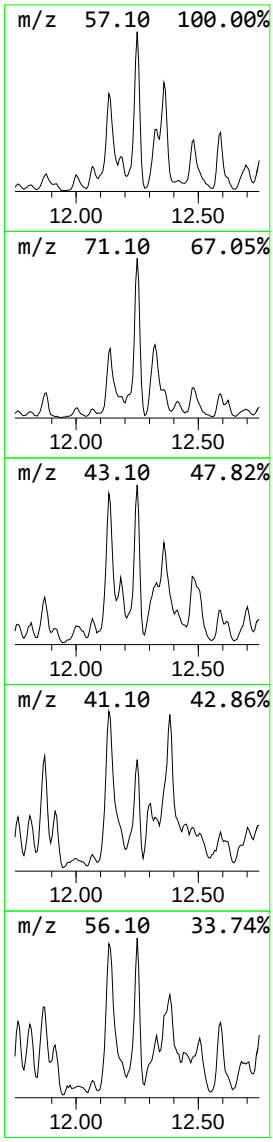
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 25 (DEL) Alkane: Straight-Chai... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.250 | 17.52 ug/L | 281312 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 3,6-dimethyl- | 142 | C10H22 | 015869-94-0 | 91 |
| 2 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 91 |
| 3 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 91 |
| 4 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 87 |
| 5 | Octane, 3,6-dimethyl- | 142 | C10H22 | 015869-94-0 | 83 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

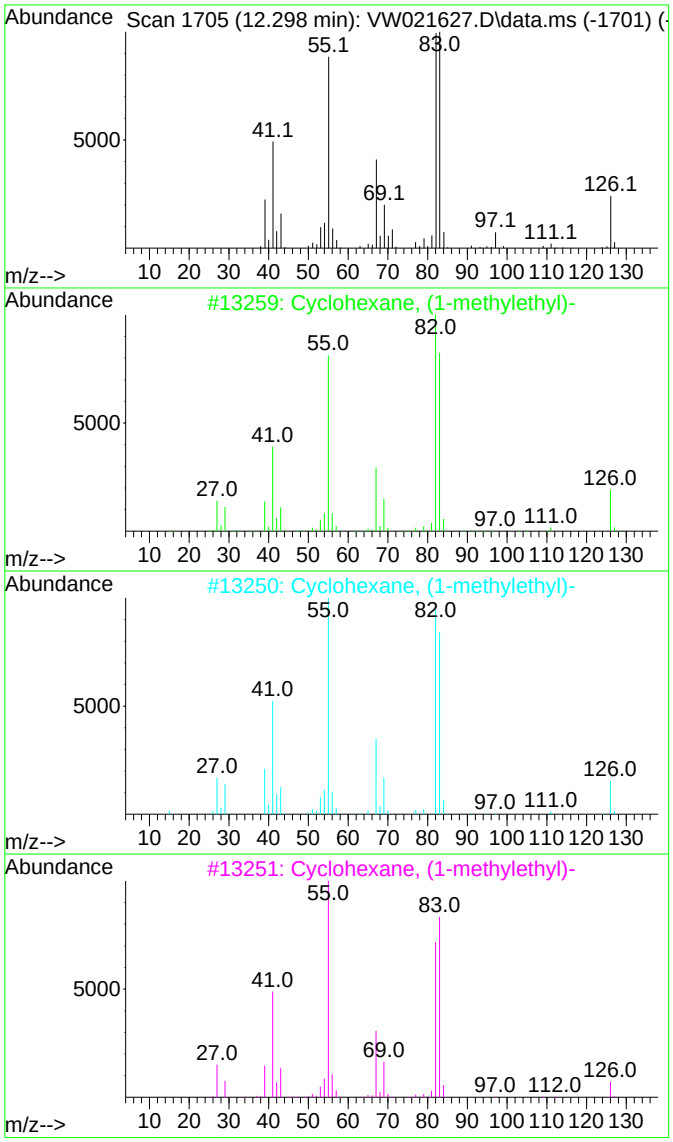
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

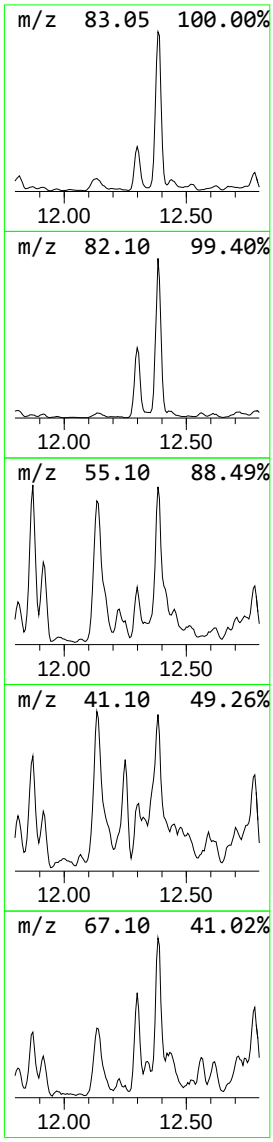
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 26 (DEL) Alkane: Cyclic12.298 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.298 | 10.57 ug/L | 169707 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 97 |
| 2 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 94 |
| 3 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 91 |
| 4 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 90 |
| 5 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 80 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

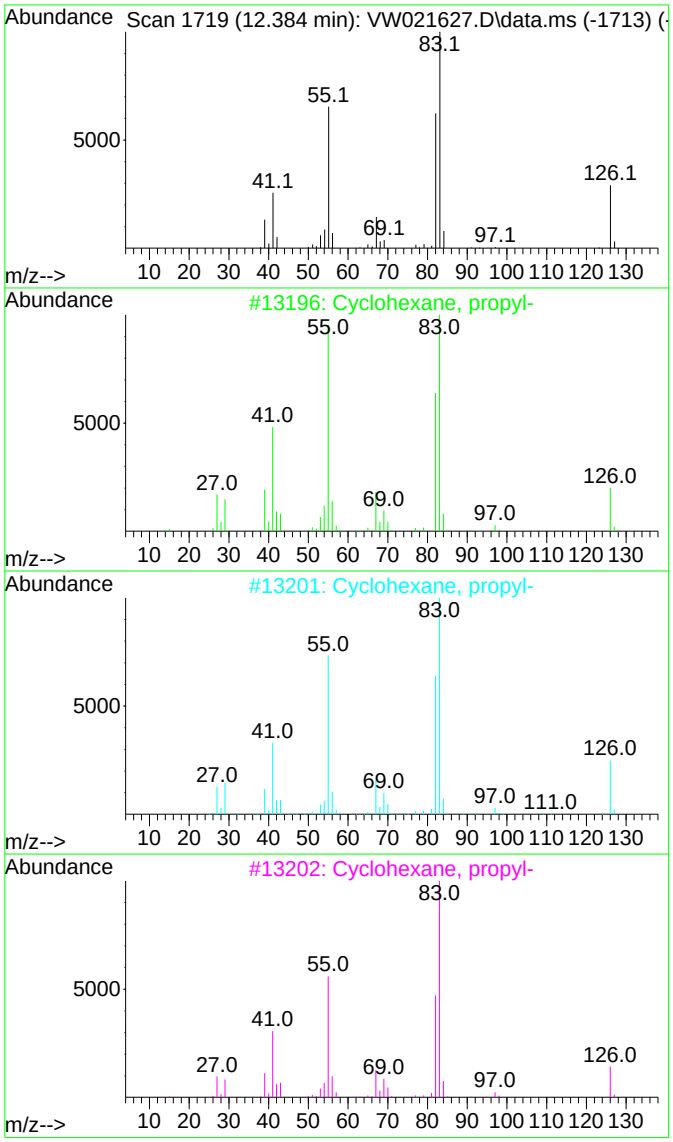
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

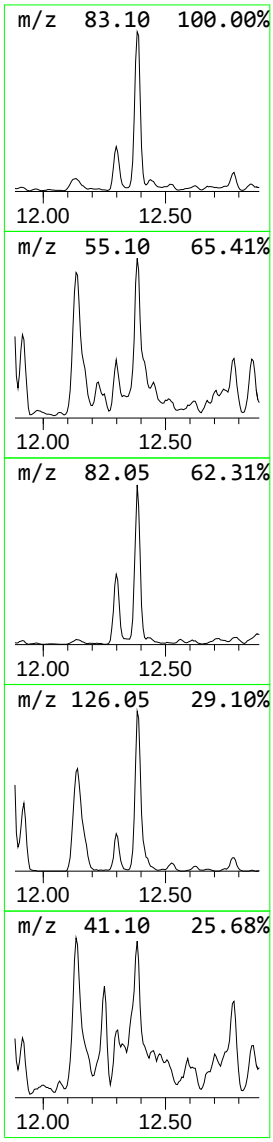
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 27 (DEL) Alkane: Cyclic12.384 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.384 | 24.35 ug/L | 390882 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 91 |
| 2 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 91 |
| 3 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 90 |
| 4 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 83 |
| 5 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 78 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

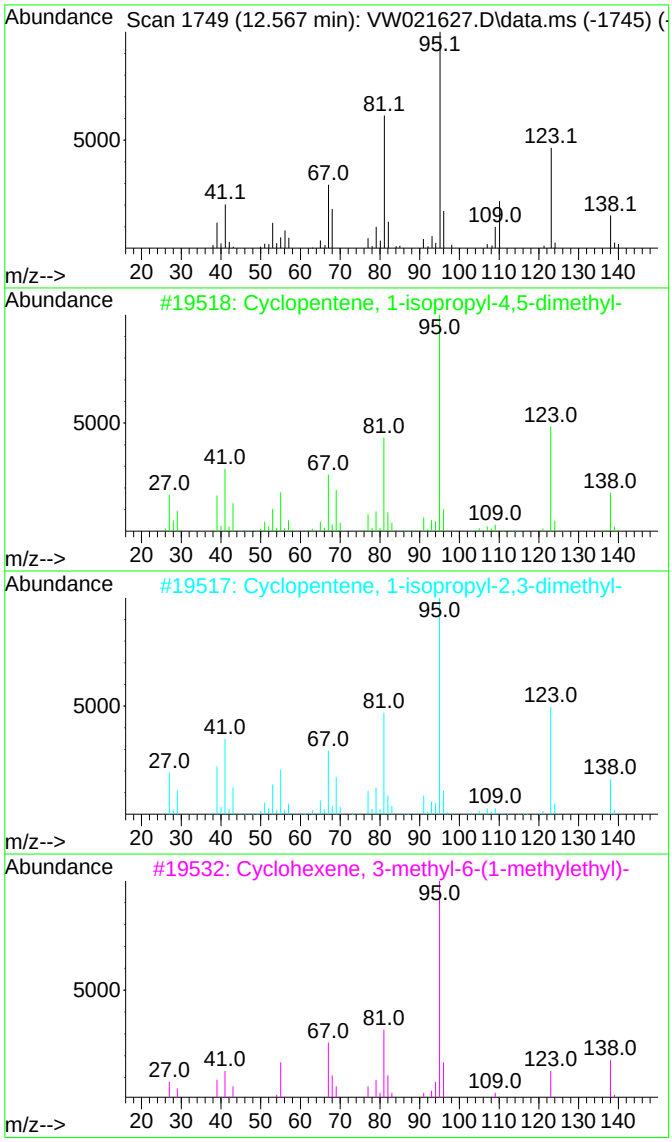
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

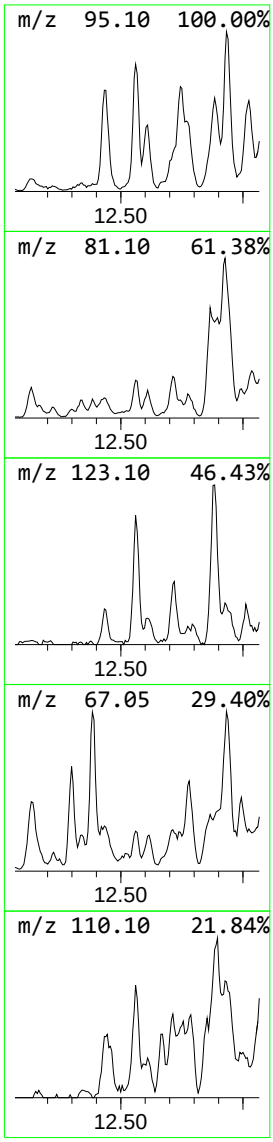
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 28 Cyclopentene, 1-isopropyl-4... Concentration Rank 43

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.567 | 1.76 ug/L | 28197 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentene, 1-isopropyl-4,5-di... | 138 | C10H18 | 007712-74-5 | 76 |
| 2 | Cyclopentene, 1-isopropyl-2,3-di... | 138 | C10H18 | 007712-73-4 | 72 |
| 3 | Cyclohexene, 3-methyl-6-(1-methy... | 138 | C10H18 | 005256-65-5 | 70 |
| 4 | 3-Cyclopenten-1-one, 2,2,5,5-tet... | 138 | C9H14O | 081396-36-3 | 53 |
| 5 | 1,3-Dimethyl-1-cyclohexene | 110 | C8H14 | 002808-76-6 | 52 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

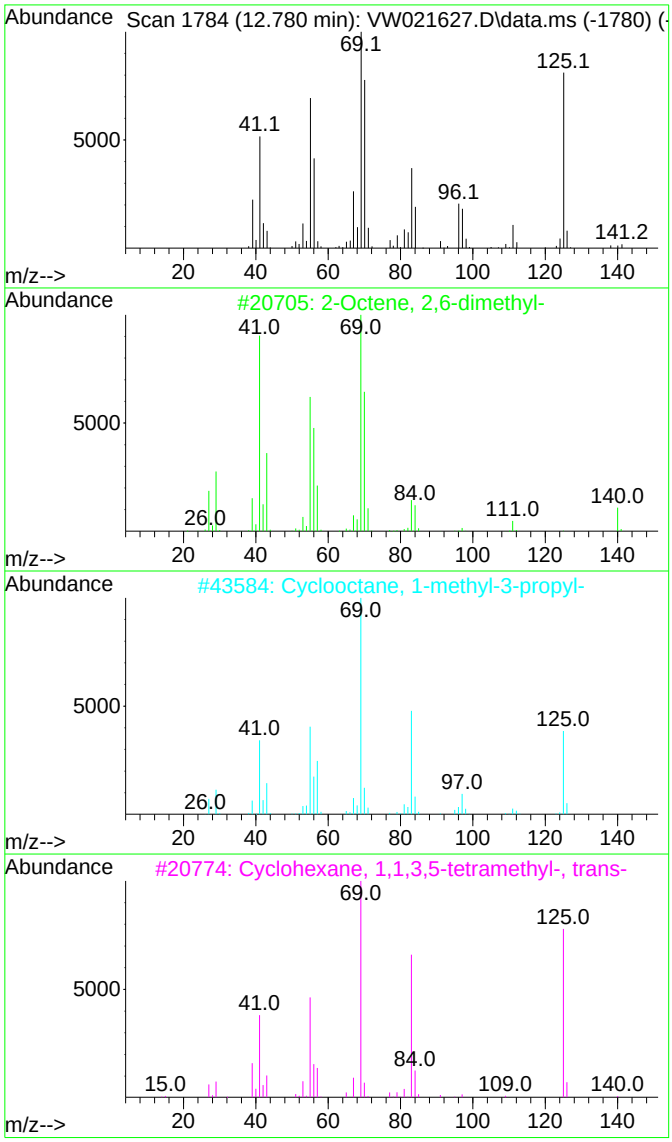
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

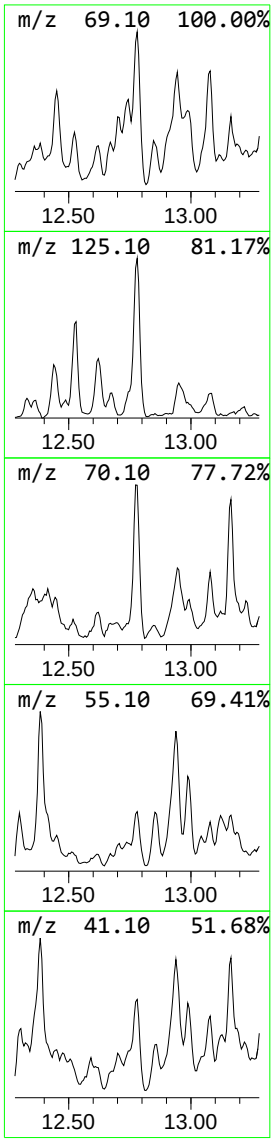
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 29 (DEL) Alkane: Straight-Chai... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.780 | 25.63 ug/L | 341847 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Octene, 2,6-dimethyl- | 140 | C10H20 | 004057-42-5 | 47 |
| 2 | Cyclooctane, 1-methyl-3-propyl- | 168 | C12H24 | 255885-37-1 | 43 |
| 3 | Cyclohexane, 1,1,3,5-tetramethyl... | 140 | C10H20 | 050876-31-8 | 43 |
| 4 | trans-1-Butyl-2-methylcyclopropane | 112 | C8H16 | 038851-70-6 | 41 |
| 5 | 1-Octene, 3,3-dimethyl- | 140 | C10H20 | 074511-51-6 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

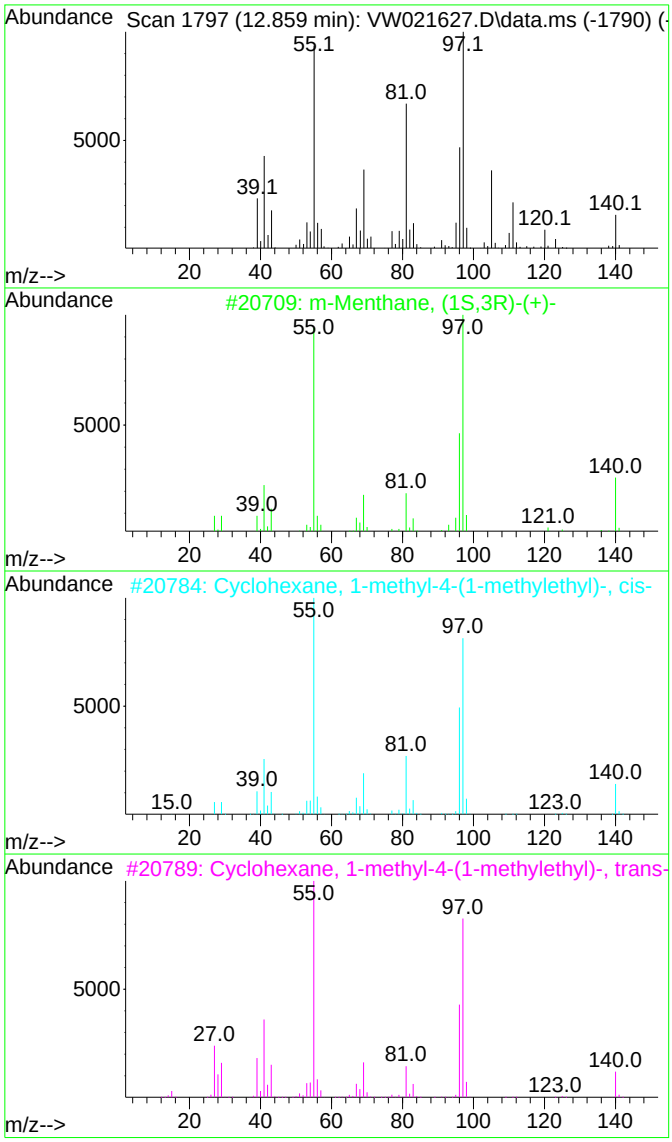
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

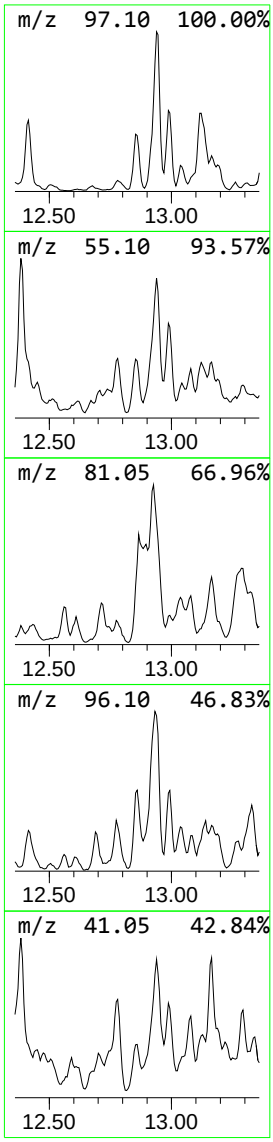
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 30 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.859 | 20.99 ug/L | 279939 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | m-Menthane, (1S,3R)-(+)- | 140 | C10H20 | 013837-66-6 | 76 |
| 2 | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20 | 006069-98-3 | 70 |
| 3 | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20 | 001678-82-6 | 62 |
| 4 | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20 | 006069-98-3 | 62 |
| 5 | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20 | 001678-82-6 | 62 |



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Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

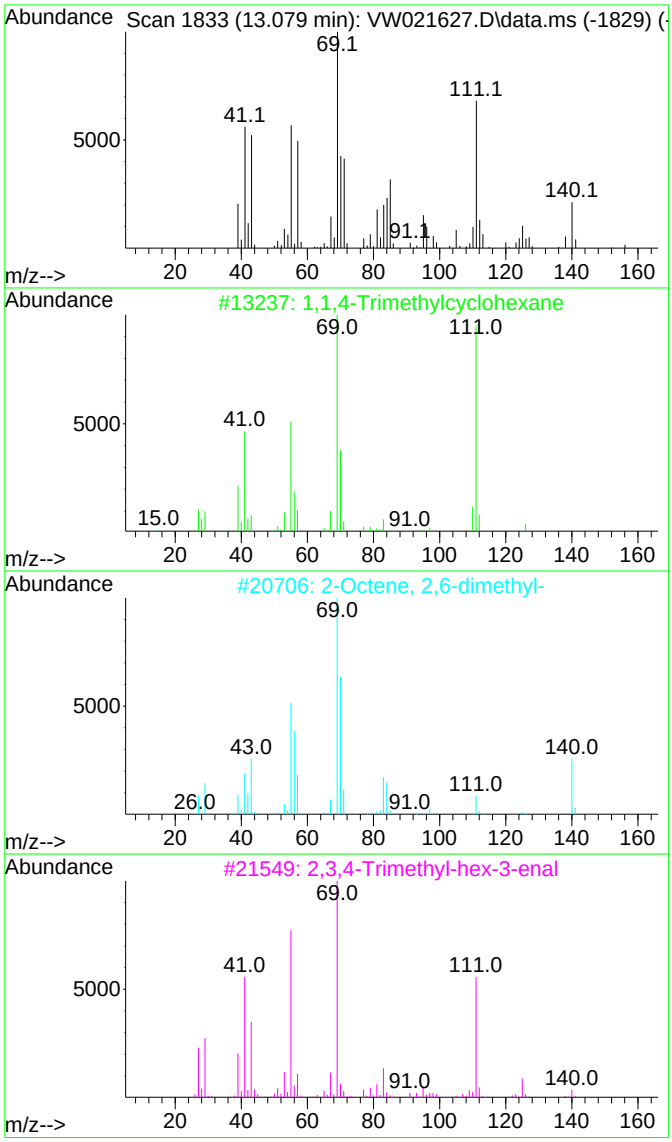
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

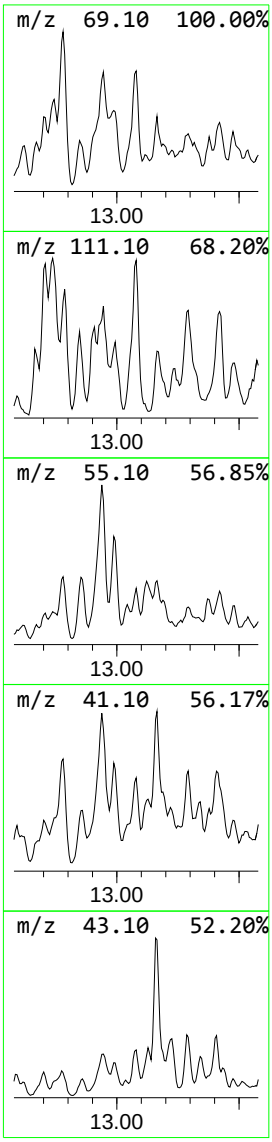
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 31 (DEL) Alkane: Cyclic13.079 Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.079 | 8.59 ug/L | 114629 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1,4-Trimethylcyclohexane | 126 | C9H18 | 007094-27-1 | 46 |
| 2 | 2-Octene, 2,6-dimethyl- | 140 | C10H20 | 004057-42-5 | 43 |
| 3 | 2,3,4-Trimethyl-hex-3-enal | 140 | C9H16O | 1000193-72-9 | 38 |
| 4 | 1-Hexene, 3,3-dimethyl- | 112 | C8H16 | 003404-77-1 | 38 |
| 5 | Cyclopentanone, 2-methyl-3-(1-me... | 140 | C9H16O | 054549-81-4 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

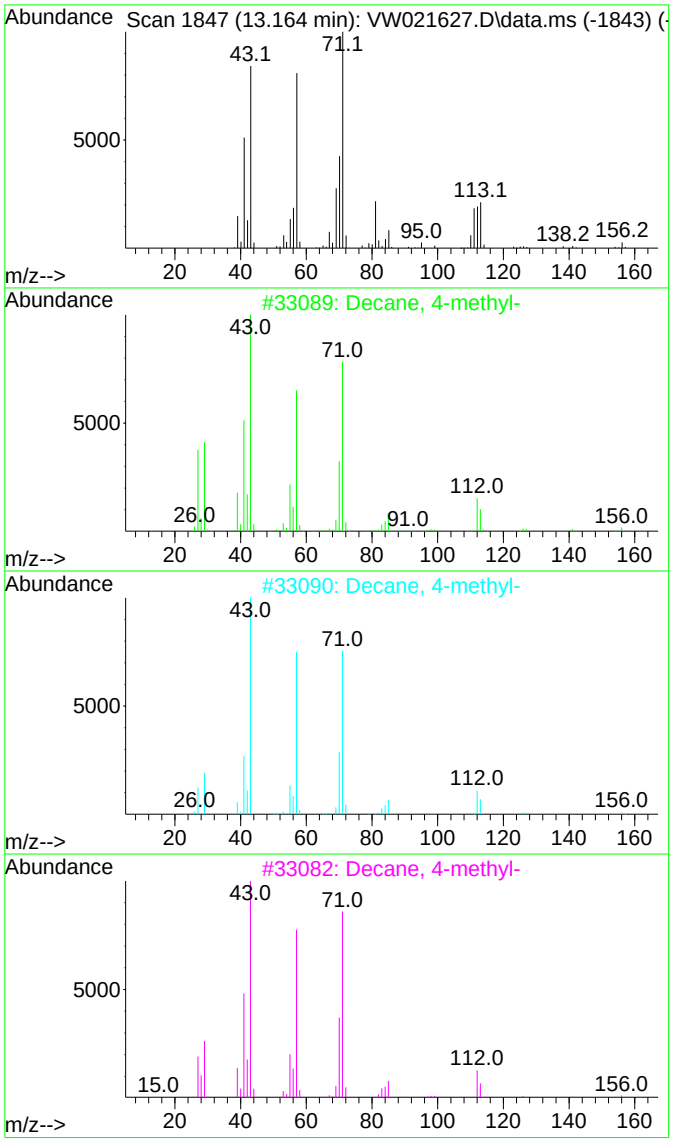
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

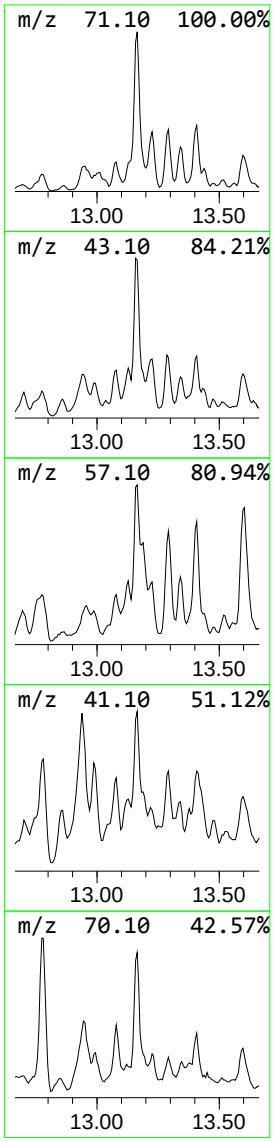
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 32 (DEL) Alkane: Straight-Chai... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.164 | 13.97 ug/L | 186401 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 4-methyl- | 156 | C11H24 | 002847-72-5 | 80 |
| 2 | Decane, 4-methyl- | 156 | C11H24 | 002847-72-5 | 72 |
| 3 | Decane, 4-methyl- | 156 | C11H24 | 002847-72-5 | 72 |
| 4 | Octane, 3,3-dimethyl- | 142 | C10H22 | 004110-44-5 | 64 |
| 5 | Heptane, 3,3,5-trimethyl- | 142 | C10H22 | 007154-80-5 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

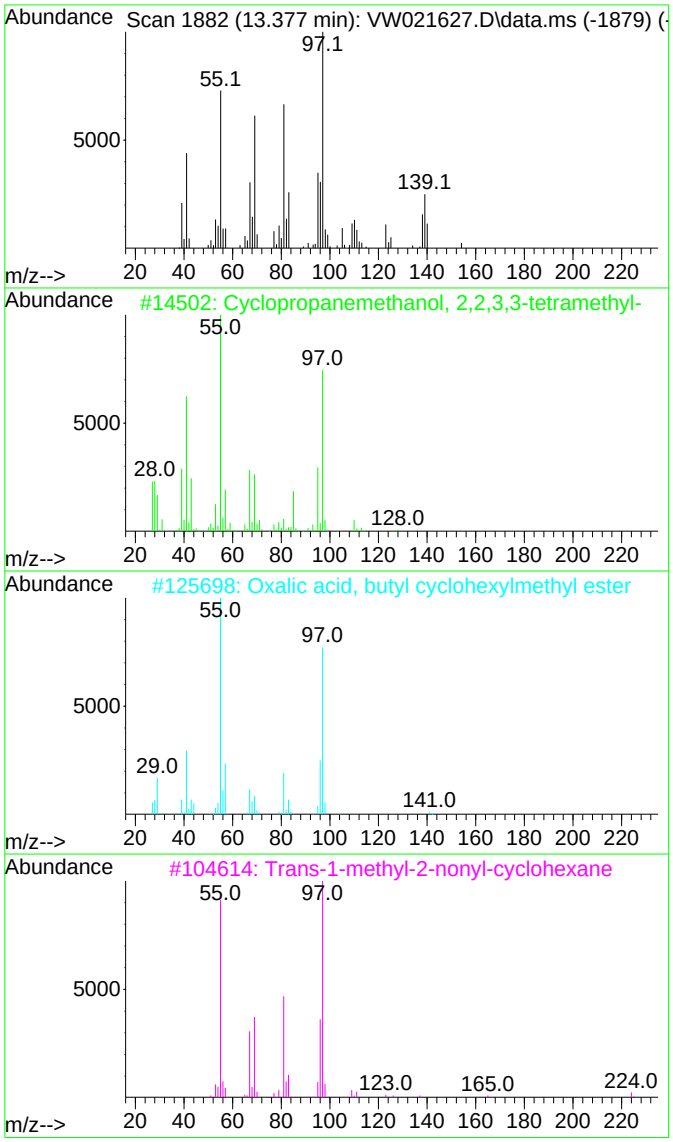
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

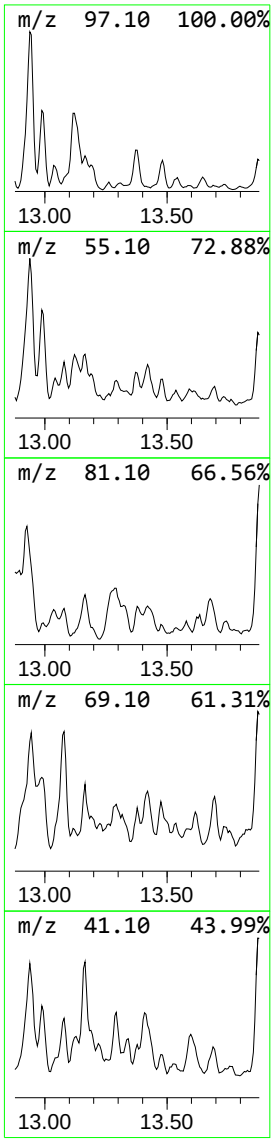
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 33 unknown-01 Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.378 | 5.32 ug/L | 71025 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopropanemethanol, 2,2,3,3-te... | 128 | C8H16O | 002415-96-5 | 43 |
| 2 | Oxalic acid, butyl cyclohexylmet... | 242 | C13H22O4 | 1000309-68-2 | 43 |
| 3 | Trans-1-methyl-2-nonyl-cyclohexane | 224 | C16H32 | 1000371-47-8 | 43 |
| 4 | Sulfurous acid, cyclohexylmethyl... | 262 | C13H26O3S | 1000309-21-5 | 38 |
| 5 | Cyclohexane, 1,2-dimethyl-, trans- | 112 | C8H16 | 006876-23-9 | 35 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

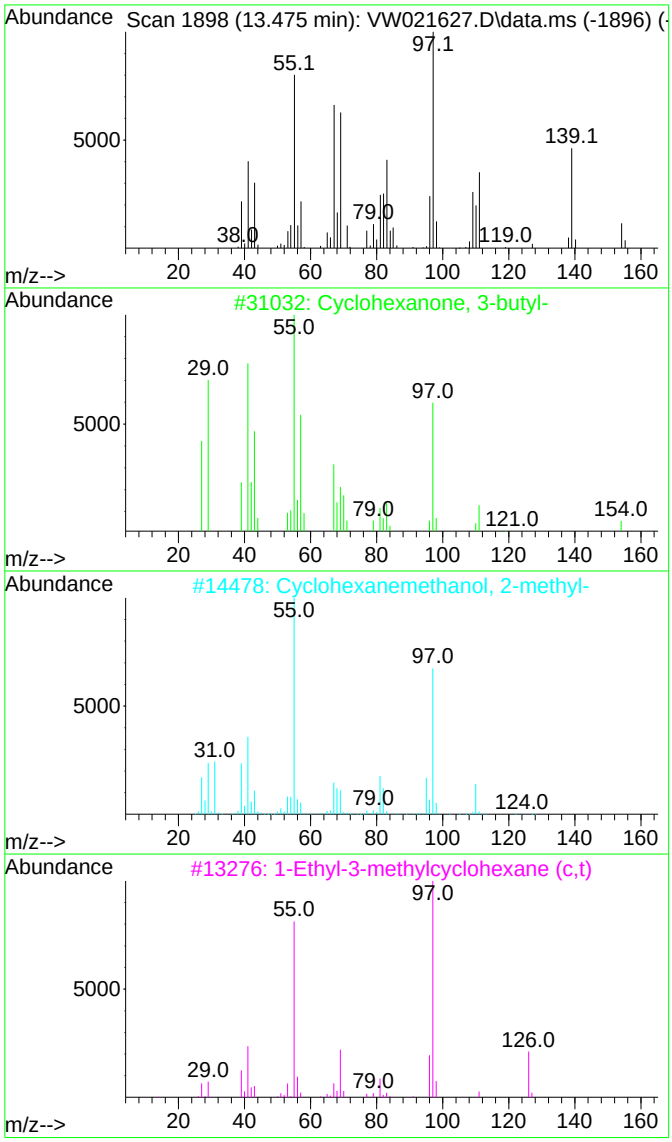
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

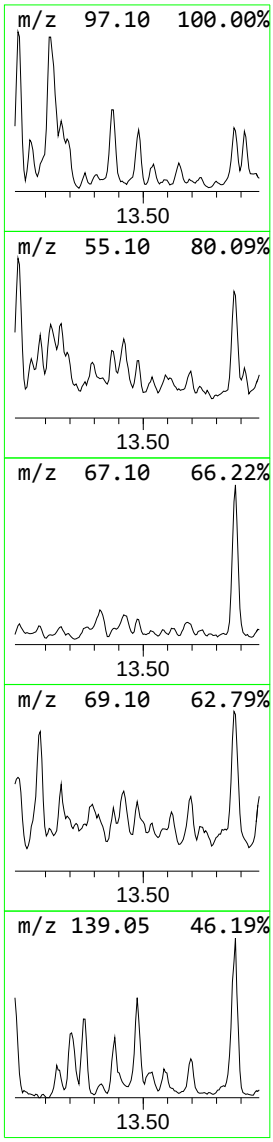
**********

Peak Number 34 unknown-02 Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.475 | 4.30 ug/L | 57391 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanone, 3-butyl- | 154 | C10H18O | 039178-69-3 | 38 |
| 2 | Cyclohexanemethanol, 2-methyl- | 128 | C8H16O | 002105-40-0 | 35 |
| 3 | 1-Ethyl-3-methylcyclohexane (c,t) | 126 | C9H18 | 003728-55-0 | 27 |
| 4 | Hept-2-ene, 2,4,4,6-tetramethyl- | 154 | C11H22 | 103982-58-7 | 27 |
| 5 | Cyclohexane, 1-ethyl-1-methyl- | 126 | C9H18 | 004926-90-3 | 27 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

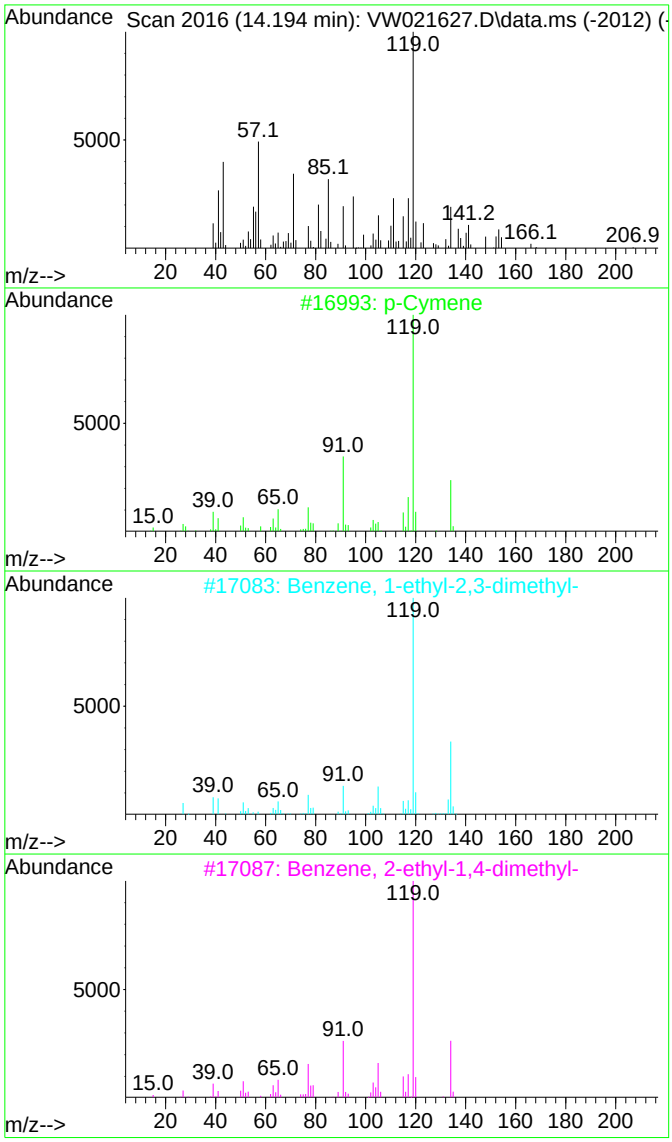
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

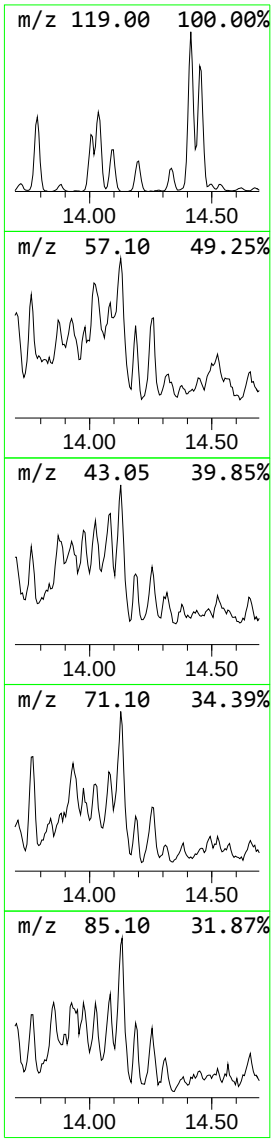
**********

Peak Number 35 p-Cymene Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.194 | 3.66 ug/L | 48776 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | p-Cymene | 134 | C10H14 | 000099-87-6 | 53 |
| 2 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 50 |
| 3 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 50 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 49 |
| 5 | p-Cymene | 134 | C10H14 | 000099-87-6 | 46 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

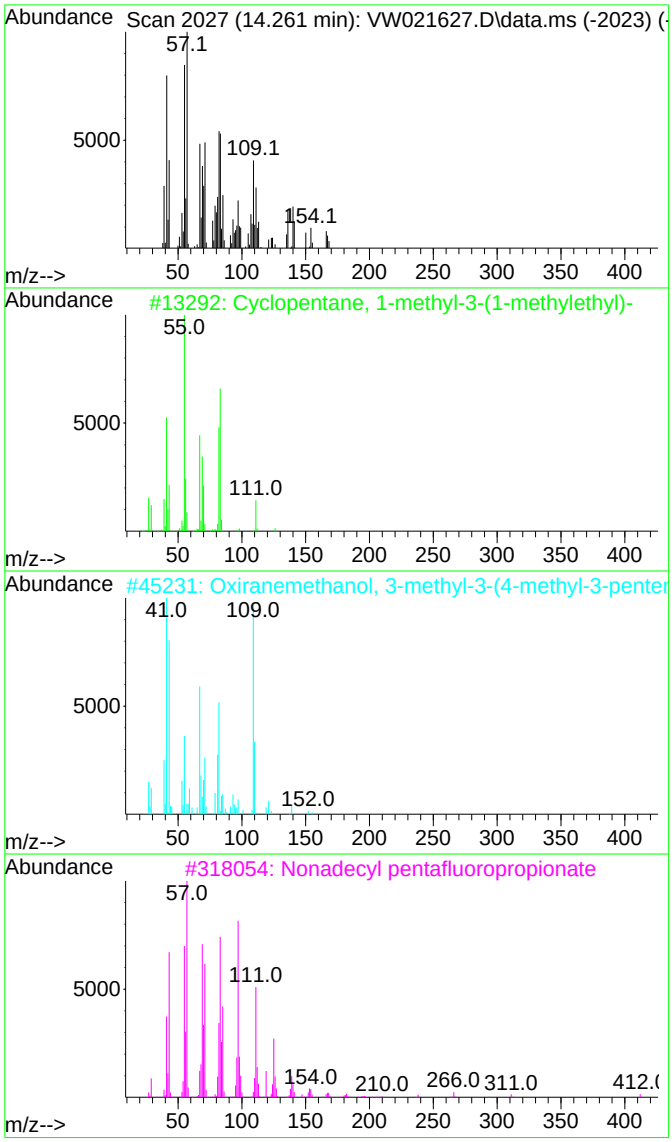
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

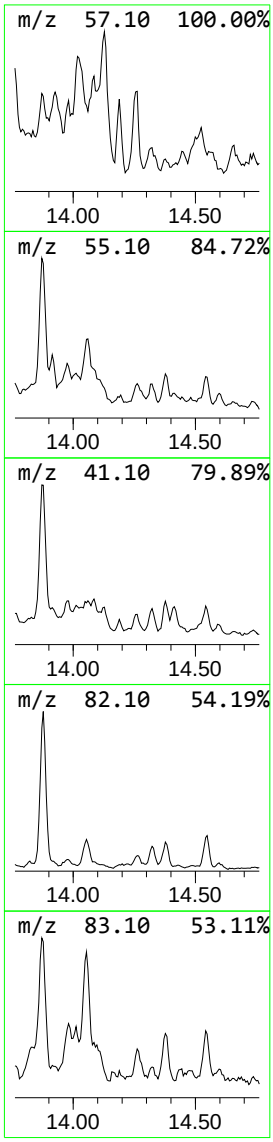
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 36 (DEL) Alkane: Cyclic14.262 Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.262 | 4.15 ug/L | 55347 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1-methyl-3-(1-meth... | 126 | C9H18 | 053771-88-3 | 46 |
| 2 | Oxiranemethanol, 3-methyl-3-(4-m... | 170 | C10H18O2 | 050727-94-1 | 38 |
| 3 | Nonadecyl pentafluoropropionate | 430 | C22H39F5O2 | 1000351-88-8 | 35 |
| 4 | Cyclohexane, (1-methylbutyl)- | 154 | C11H22 | 061208-94-4 | 30 |
| 5 | (Z)-Hex-3-enyl (E)-2-methylbut-2... | 182 | C11H18O2 | 067883-79-8 | 27 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

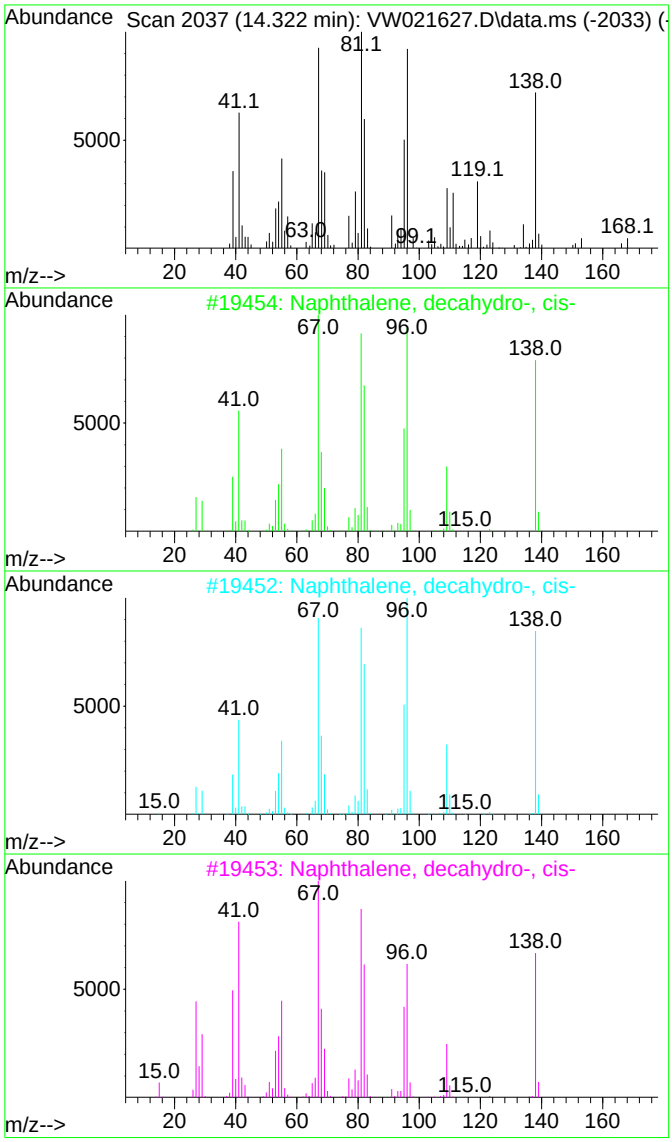
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

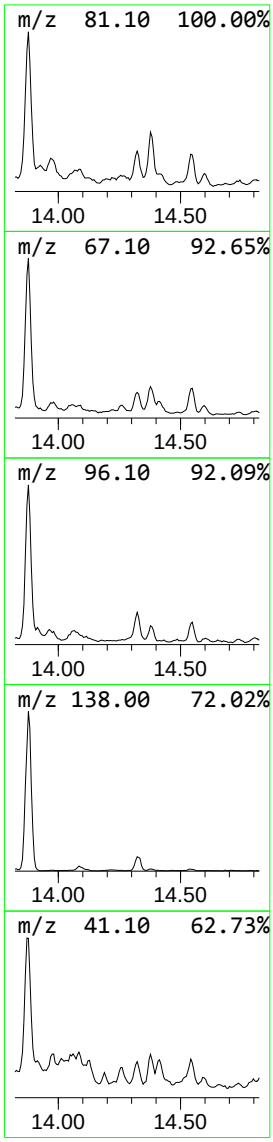
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 37 Naphthalene, decahydro-, cis- Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.322 | 6.54 ug/L | 87205 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, decahydro-, cis- | 138 | C10H18 | 000493-01-6 | 98 |
| 2 | Naphthalene, decahydro-, cis- | 138 | C10H18 | 000493-01-6 | 95 |
| 3 | Naphthalene, decahydro-, cis- | 138 | C10H18 | 000493-01-6 | 95 |
| 4 | Naphthalene, decahydro- | 138 | C10H18 | 000091-17-8 | 95 |
| 5 | Spiro[4.5]decane | 138 | C10H18 | 000176-63-6 | 93 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

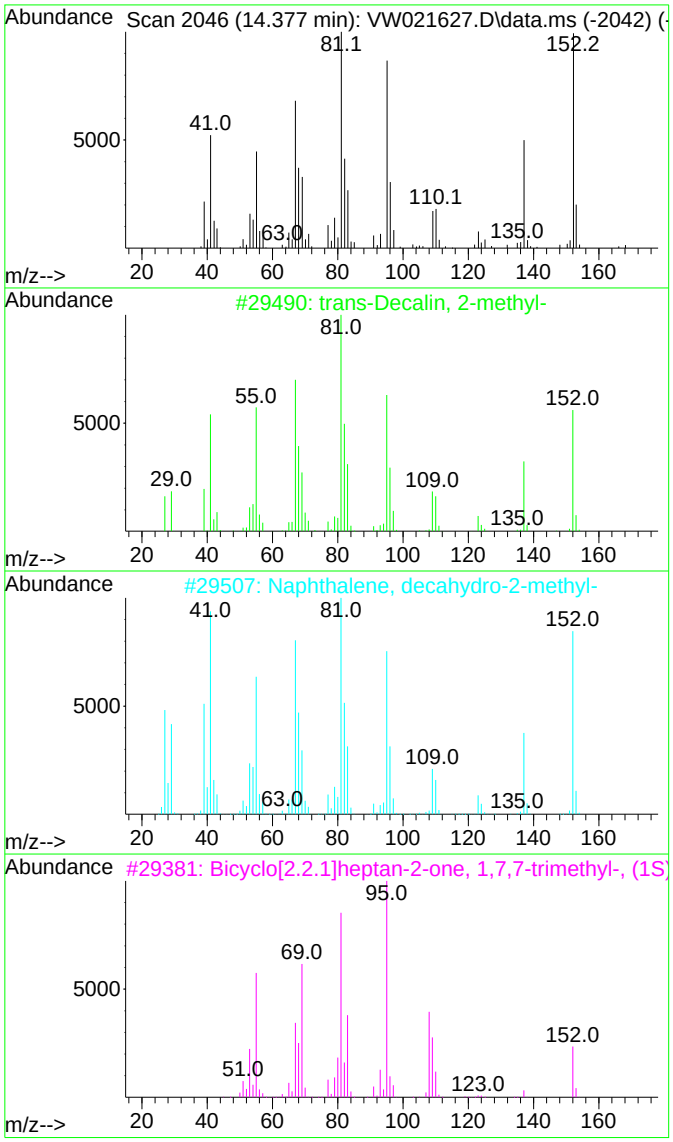
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

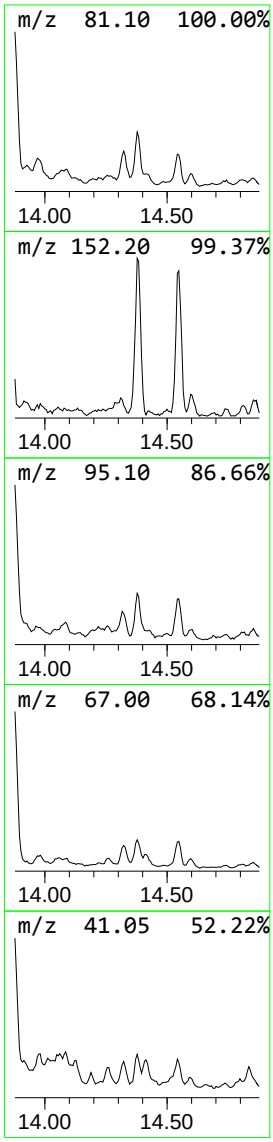
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 38 trans-Decalin, 2-methyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.377 | 9.58 ug/L | 127788 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | trans-Decalin, 2-methyl- | 152 | C11H20 | 1000152-47-3 | 95 |
| 2 | Naphthalene, decahydro-2-methyl- | 152 | C11H20 | 002958-76-1 | 74 |
| 3 | Bicyclo[2.2.1]heptan-2-one, 1,7,... | 152 | C10H16O | 000464-48-2 | 64 |
| 4 | cis-Decalin, 2-syn-methyl- | 152 | C11H20 | 1000155-85-6 | 64 |
| 5 | Pulegone | 152 | C10H16O | 000089-82-7 | 58 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

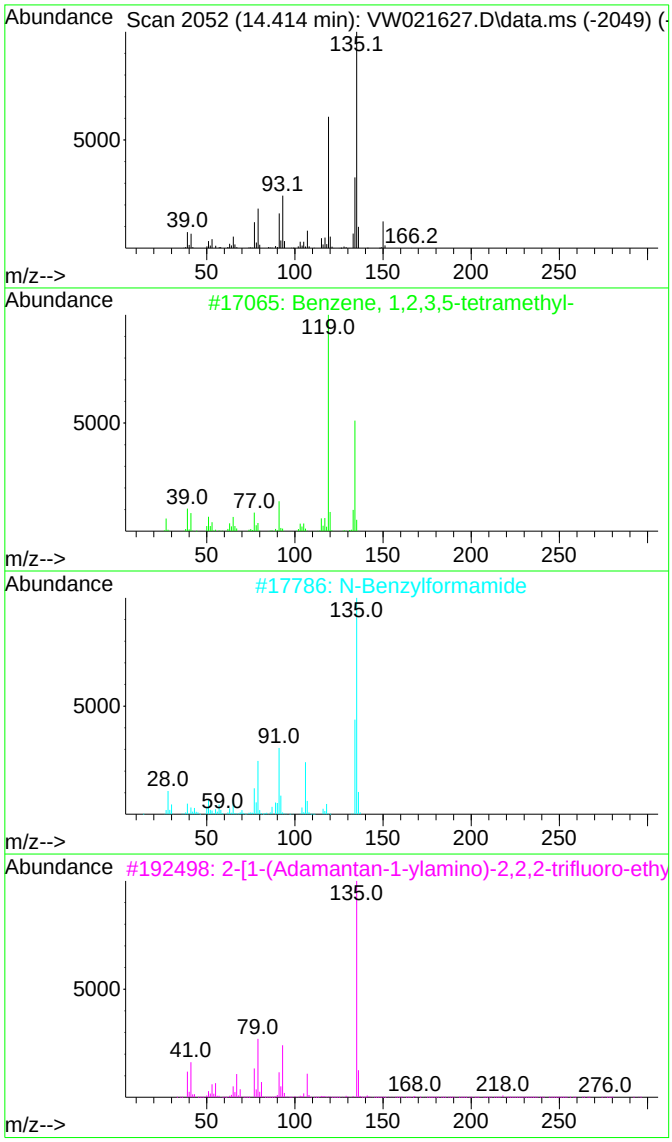
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

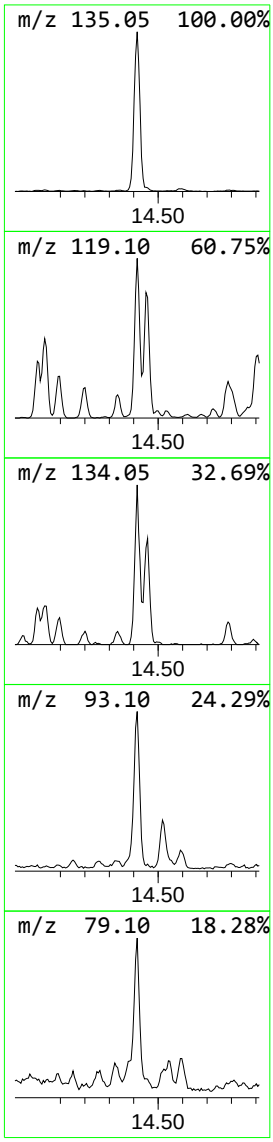
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 39 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.414 | 14.18 ug/L | 189104 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 70 |
| 2 | N-Benzylformamide | 135 | C8H9NO | 006343-54-0 | 46 |
| 3 | 2-[1-(Adamantan-1-ylamino)-2,2,2... | 295 | C15H16F3N3 | 1000275-90-9 | 46 |
| 4 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 42 |
| 5 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

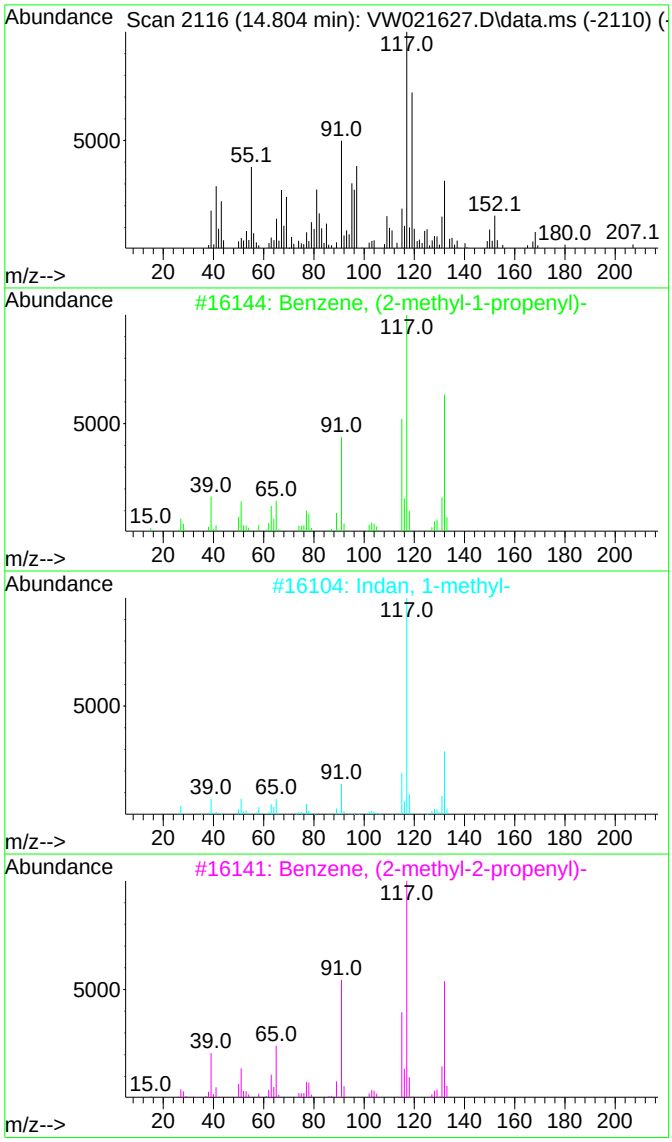
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

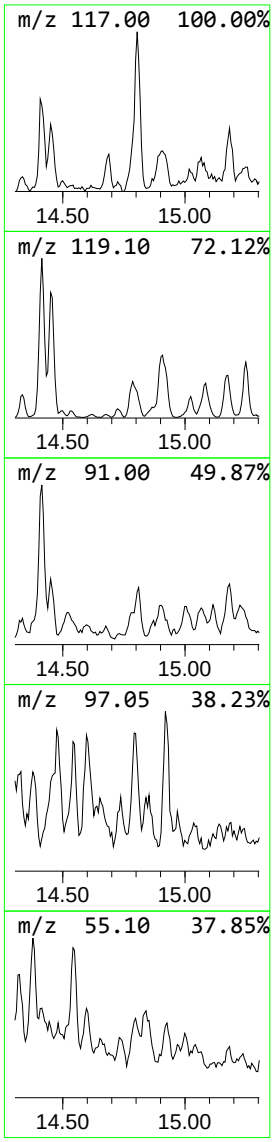
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 40 Benzene, (2-methyl-1-propen... Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.804 | 5.09 ug/L | 67892 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (2-methyl-1-propenyl)- | 132 | C10H12 | 000768-49-0 | 50 |
| 2 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 42 |
| 3 | Benzene, (2-methyl-2-propenyl)- | 132 | C10H12 | 003290-53-7 | 42 |
| 4 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 42 |
| 5 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

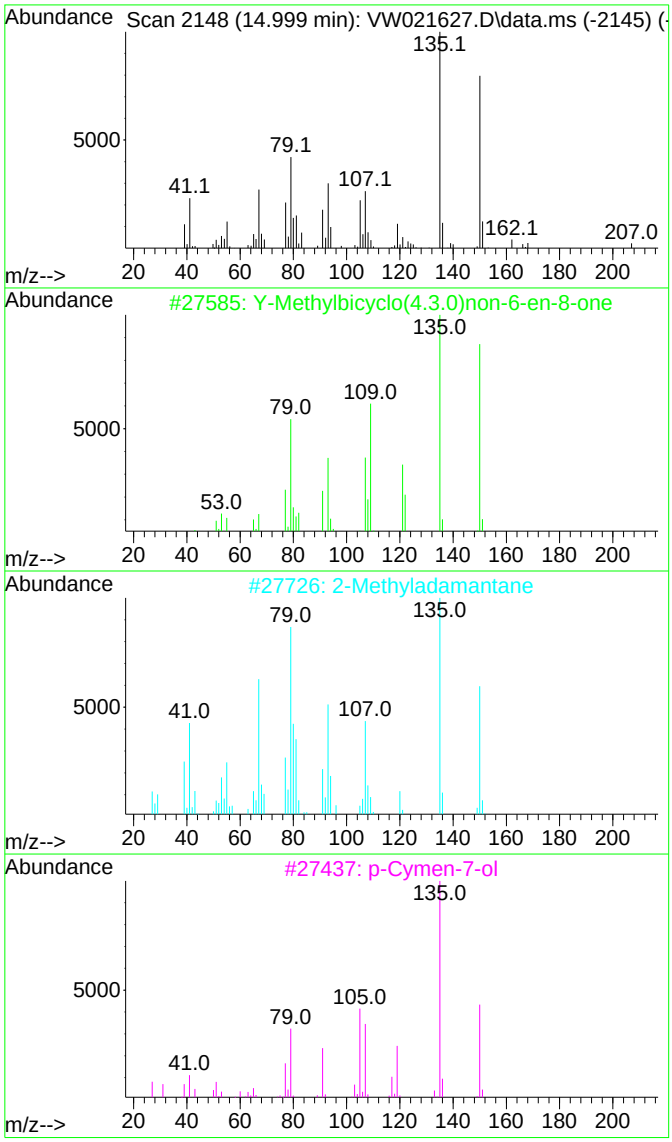
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

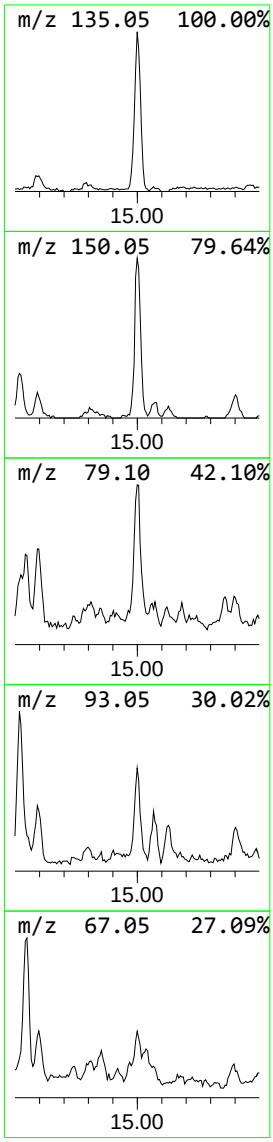
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 41 Y-Methylbicyclo(4.3.0)non-6... Concentration Rank 36

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.999 | 3.46 ug/L | 46157 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Y-Methylbicyclo(4.3.0)non-6-en-8... | 150 | C10H14O | 1000424-65-9 | 93 |
| 2 | 2-Methyladamantane | 150 | C11H18 | 000700-56-1 | 90 |
| 3 | p-Cymen-7-ol | 150 | C10H14O | 000536-60-7 | 83 |
| 4 | Cyclohexene, 2-ethenyl-1,3,3-tri... | 150 | C11H18 | 005293-90-3 | 64 |
| 5 | Ethyltetramethylcyclopentadiene | 150 | C11H18 | 057693-77-3 | 58 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

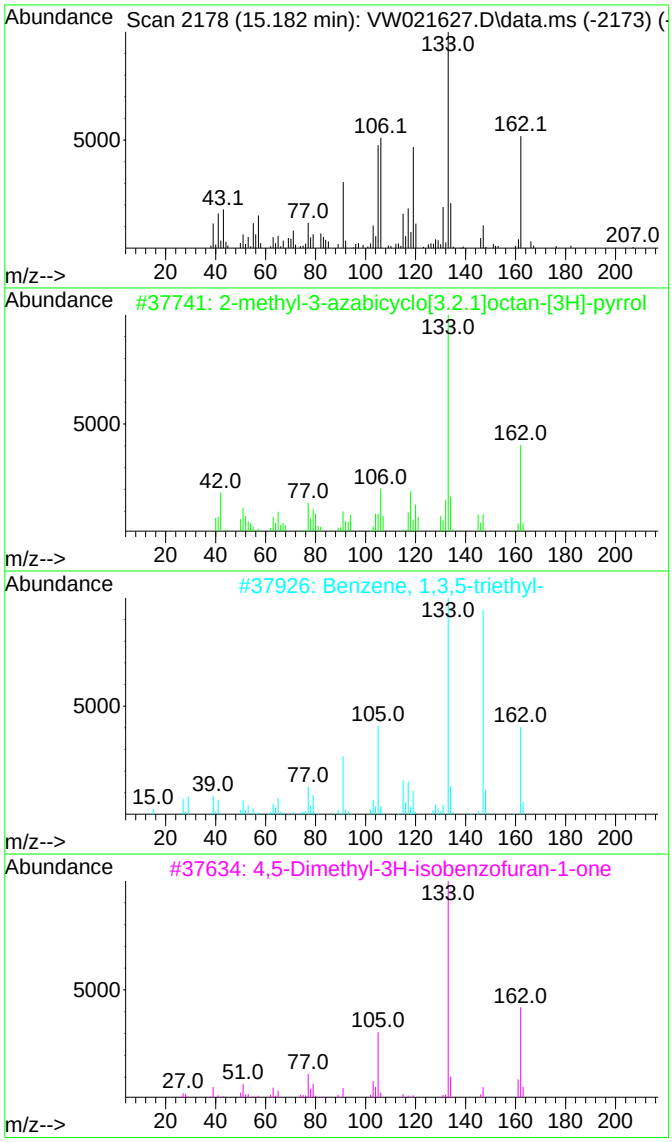
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

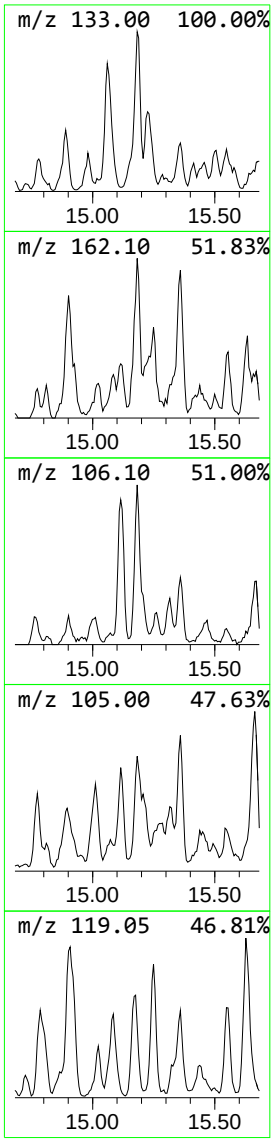
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 42 2-methyl-3-azabicyclo[3.2.1... Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.182 | 5.16 ug/L | 68802 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-methyl-3-azabicyclo[3.2.1]octa... | 162 | C10H14N2 | 1000451-79-1 | 58 |
| 2 | Benzene, 1,3,5-triethyl- | 162 | C12H18 | 000102-25-0 | 49 |
| 3 | 4,5-Dimethyl-3H-isobenzofuran-1-one | 162 | C10H10O2 | 1000188-08-0 | 46 |
| 4 | 1-Penten-3-ol, 1-phenyl- | 162 | C11H14O | 034862-94-7 | 45 |
| 5 | Benzene, 2,4-dimethyl-1-(1-methy... | 162 | C12H18 | 001483-60-9 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

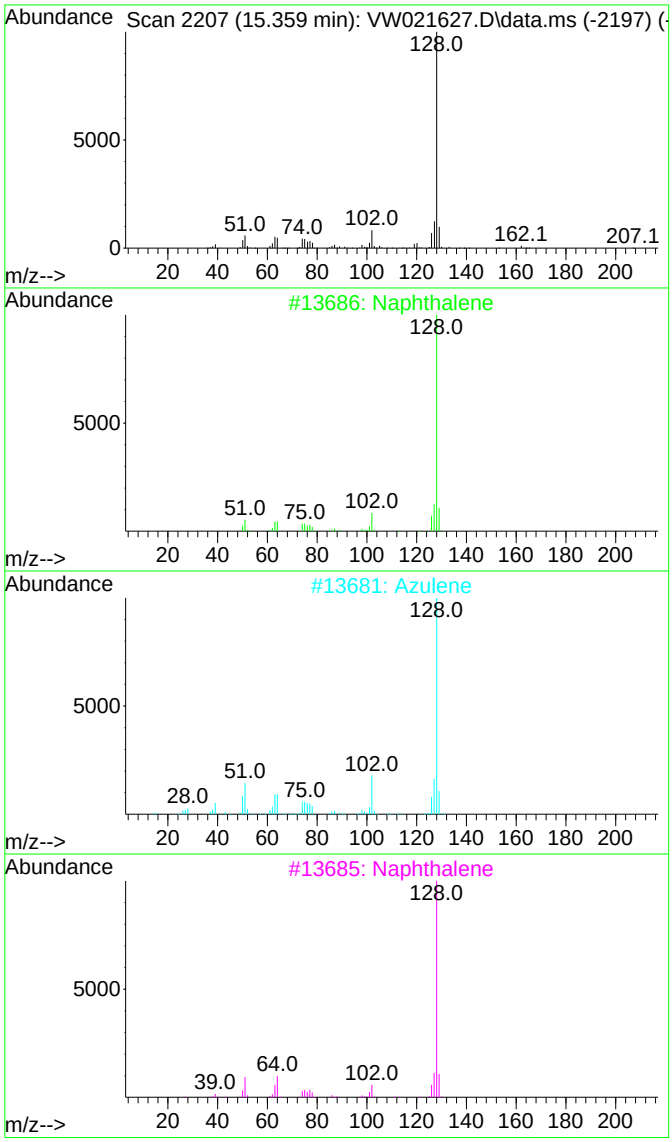
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

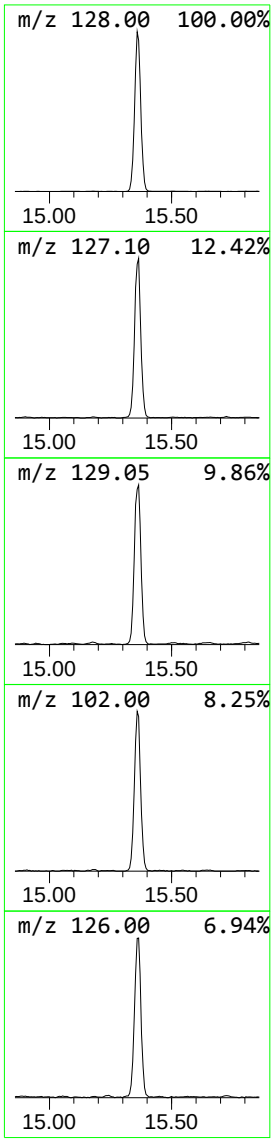
**********

Peak Number 43 Azulene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.359 | 79.68 ug/L | 1062780 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene | 128 | C10H8 | 000091-20-3 | 94 |
| 2 | Azulene | 128 | C10H8 | 000275-51-4 | 90 |
| 3 | Naphthalene | 128 | C10H8 | 000091-20-3 | 90 |
| 4 | Azulene | 128 | C10H8 | 000275-51-4 | 90 |
| 5 | Naphthalene | 128 | C10H8 | 000091-20-3 | 90 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

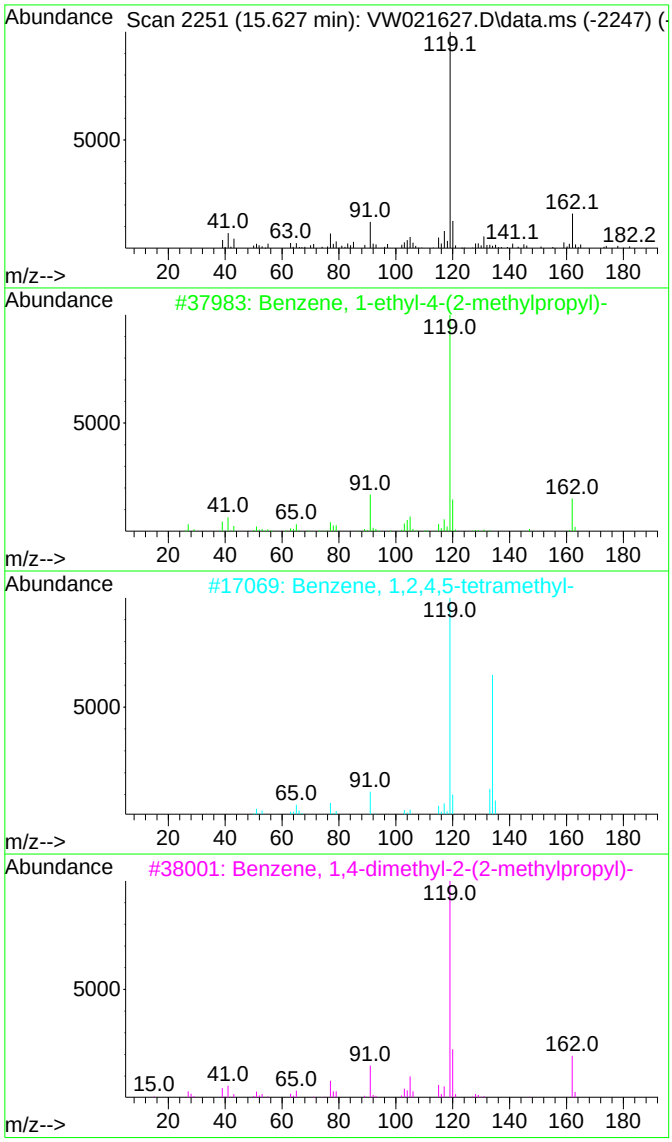
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

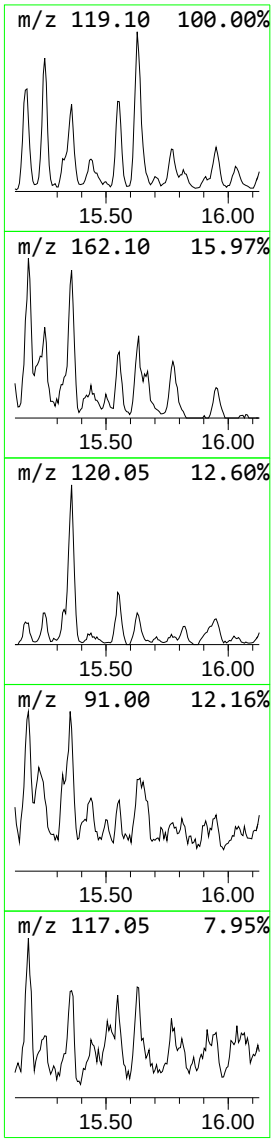
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 44 Benzene, 1-ethyl-4-(2-methy... Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.627 | 3.99 ug/L | 53232 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-4-(2-methylprop... | 162 | C12H18 | 100319-40-2 | 90 |
| 2 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 81 |
| 3 | Benzene, 1,4-dimethyl-2-(2-methy... | 162 | C12H18 | 055669-88-0 | 64 |
| 4 | 3,5-Dimethylbenzylpentylamine | 205 | C14H23N | 1000491-60-8 | 64 |
| 5 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

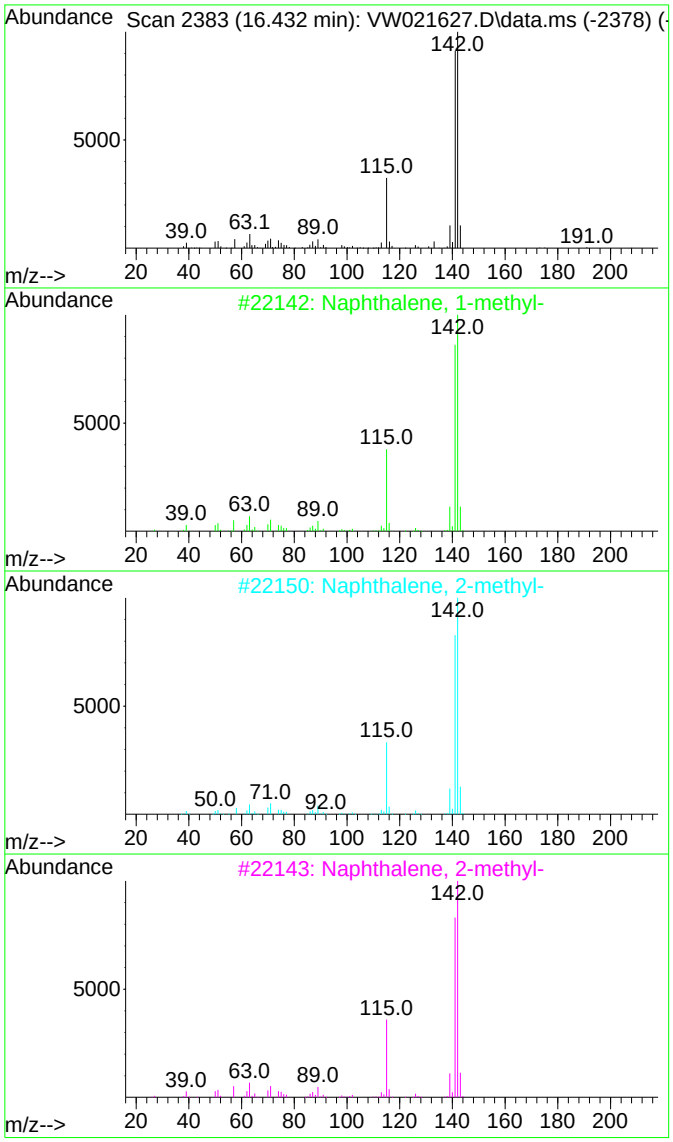
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

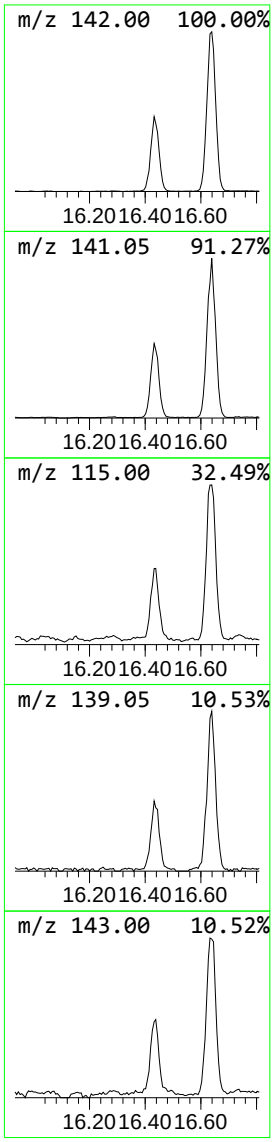
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 45 1,4-Methanonaphthalene, 1,4... Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.432 | 9.36 ug/L | 124795 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 97 |
| 2 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 97 |
| 3 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 97 |
| 4 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 91 |
| 5 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 91 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122221\
Data File : VW021627.D
Acq On : 23 Dec 2021 21:29
Operator : SY/VA
Sample : M5121-09
Misc : 6.86g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL54

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

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

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| (DEL) Alkane: S... | 9.329 | 2.9 | ug/L | 33718 | 1 | 8.842 | 290194 | 25.0 |
| (DEL) Alkane: S... | 9.384 | 3.9 | ug/L | 44889 | 1 | 8.842 | 290194 | 25.0 |
| (DEL) Alkane: S... | 9.896 | 3.1 | ug/L | 35999 | 1 | 8.842 | 290194 | 25.0 |
| (DEL) Alkane: S... | 9.988 | 3.9 | ug/L | 45787 | 1 | 8.842 | 290194 | 25.0 |
| (DEL) Alkane: S... | 10.128 | 3.1 | ug/L | 35639 | 1 | 8.842 | 290194 | 25.0 |
| (DEL) Alkane: S... | 10.250 | 2.5 | ug/L | 40170 | 2 | 11.628 | 401348 | 25.0 |
| (DEL) Alkane: S... | 10.847 | 2.2 | ug/L | 35466 | 2 | 11.628 | 401348 | 25.0 |
| (DEL) Alkane: S... | 11.036 | 7.7 | ug/L | 124285 | 2 | 11.628 | 401348 | 25.0 |
| (DEL) Alkane: C... | 11.110 | 6.0 | ug/L | 96210 | 2 | 11.628 | 401348 | 25.0 |
| (DEL) Alkane: C... | 11.232 | 11.9 | ug/L | 190630 | 2 | 11.628 | 401348 | 25.0 |
| (DEL) Alkane: C... | 11.280 | 3.6 | ug/L | 57647 | 2 | 11.628 | 401348 | 25.0 |
| (DEL) Alkane: S... | 11.335 | 3.6 | ug/L | 58578 | 2 | 11.628 | 401348 | 25.0 |
| Acetic acid, he... | 11.378 | 4.2 | ug/L | 66876 | 2 | 11.628 | 401348 | 25.0 |
| (DEL) Alkane: C... | 11.433 | 13.8 | ug/L | 220910 | 2 | 11.628 | 401348 | 25.0 |
| (DEL) Alkane: S... | 11.506 | 1.5 | ug/L | 24246 | 2 | 11.628 | 401348 | 25.0 |
| (DEL) Alkane: C... | 11.762 | 10.7 | ug/L | 171959 | 2 | 11.628 | 401348 | 25.0 |
| (DEL) Alkane: C... | 11.817 | 11.3 | ug/L | 181245 | 2 | 11.628 | 401348 | 25.0 |
| (DEL) Alkane: C... | 11.872 | 28.6 | ug/L | 458361 | 2 | 11.628 | 401348 | 25.0 |
| (DEL) Alkane: C... | 11.914 | 12.4 | ug/L | 199390 | 2 | 11.628 | 401348 | 25.0 |
| (DEL) Alkane: S... | 11.975 | 1.3 | ug/L | 21482 | 2 | 11.628 | 401348 | 25.0 |
| Decyl heptyl ether | 12.067 | 1.4 | ug/L | 22058 | 2 | 11.628 | 401348 | 25.0 |
| (DEL) Alkane: C... | 12.134 | 50.3 | ug/L | 807937 | 2 | 11.628 | 401348 | 25.0 |
| (DEL) Alkane: S... | 12.250 | 17.5 | ug/L | 281312 | 2 | 11.628 | 401348 | 25.0 |
| (DEL) Alkane: C... | 12.298 | 10.6 | ug/L | 169707 | 2 | 11.628 | 401348 | 25.0 |
| (DEL) Alkane: C... | 12.384 | 24.4 | ug/L | 390882 | 2 | 11.628 | 401348 | 25.0 |
| Cyclopentene, 1... | 12.567 | 1.8 | ug/L | 28197 | 2 | 11.628 | 401348 | 25.0 |
| (DEL) Alkane: S... | 12.780 | 25.6 | ug/L | 341847 | 3 | 13.554 | 333464 | 25.0 |
| (DEL) Alkane: S... | 12.859 | 21.0 | ug/L | 279939 | 3 | 13.554 | 333464 | 25.0 |
| (DEL) Alkane: C... | 13.079 | 8.6 | ug/L | 114629 | 3 | 13.554 | 333464 | 25.0 |
| (DEL) Alkane: S... | 13.164 | 14.0 | ug/L | 186401 | 3 | 13.554 | 333464 | 25.0 |
| unknown-01 | 13.378 | 5.3 | ug/L | 71025 | 3 | 13.554 | 333464 | 25.0 |
| unknown-02 | 13.475 | 4.3 | ug/L | 57391 | 3 | 13.554 | 333464 | 25.0 |
| p-Cymene | 14.194 | 3.7 | ug/L | 48776 | 3 | 13.554 | 333464 | 25.0 |
| (DEL) Alkane: C... | 14.262 | 4.2 | ug/L | 55347 | 3 | 13.554 | 333464 | 25.0 |
| Naphthalene, de... | 14.322 | 6.5 | ug/L | 87205 | 3 | 13.554 | 333464 | 25.0 |
| trans-Decalin, ... | 14.377 | 9.6 | ug/L | 127788 | 3 | 13.554 | 333464 | 25.0 |
| Benzene, 1,2,3,... | 14.414 | 14.2 | ug/L | 189104 | 3 | 13.554 | 333464 | 25.0 |
| Benzene, (2-met... | 14.804 | 5.1 | ug/L | 67892 | 3 | 13.554 | 333464 | 25.0 |
| Y-Methylbicyclo... | 14.999 | 3.5 | ug/L | 46157 | 3 | 13.554 | 333464 | 25.0 |
| 2-methyl-3-azab... | 15.182 | 5.2 | ug/L | 68802 | 3 | 13.554 | 333464 | 25.0 |
| Azulene | 15.359 | 79.7 | ug/L | 1062780 | 3 | 13.554 | 333464 | 25.0 |
| Benzene, 1-ethy... | 15.627 | 4.0 | ug/L | 53232 | 3 | 13.554 | 333464 | 25.0 |
| 1,4-Methanonaph... | 16.432 | 9.4 | ug/L | 124795 | 3 | 13.554 | 333464 | 25.0 |