LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

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: VW021474.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.349 | 66 | 73 | 83 | rVB | 52800 | 85874 | 1.11% | 0.223% |
| 2 | 2.495 | 92 | 97 | 105 | rBV | 3599 | 6564 | 0.08% | 0.017% |
| 3 | 2.812 | 144 | 149 | 151 | rBV3 | 855 | 1333 | 0.02% | 0.003% |
| 4 | 2.879 | 154 | 160 | 175 | rVB | 25402 | 55333 | 0.71% | 0.144% |
| 5 | 3.032 | 180 | 185 | 188 | rVV4 | 666 | 1075 | 0.01% | 0.003% |
| 6 | 4.013 | 336 | 346 | 358 | rVV | 71264 | 202182 | 2.61% | 0.525% |
| 7 | 4.123 | 358 | 364 | 378 | rVV | 8145 | 22635 | 0.29% | 0.059% |
| 8 | 4.379 | 395 | 406 | 421 | rVV | 7081 | 20687 | 0.27% | 0.054% |
| 9 | 4.916 | 483 | 494 | 509 | rVB5 | 3187 | 12151 | 0.16% | 0.032% |
| 10 | 5.781 | 628 | 636 | 647 | rVV3 | 763 | 2477 | 0.03% | 0.006% |
| 11 | 5.934 | 655 | 661 | 672 | rVB5 | 2271 | 6341 | 0.08% | 0.016% |
| 12 | 6.897 | 811 | 819 | 828 | rBV5 | 843 | 3023 | 0.04% | 0.008% |
| 13 | 7.080 | 840 | 849 | 859 | rBV | 14312 | 41161 | 0.53% | 0.107% |
| 14 | 7.653 | 931 | 943 | 955 | rBB | 95357 | 235203 | 3.03% | 0.610% |
| 15 | 7.921 | 979 | 987 | 997 | rBV3 | 3340 | 8587 | 0.11% | 0.022% |
| 16 | 8.037 | 997 | 1006 | 1015 | rVB4 | 2130 | 4755 | 0.06% | 0.012% |
| 17 | 8.159 | 1018 | 1026 | 1034 | rVB2 | 5883 | 13356 | 0.17% | 0.035% |
| 18 | 8.275 | 1034 | 1045 | 1062 | rBV2 | 187337 | 568379 | 7.33% | 1.475% |
| 19 | 8.403 | 1062 | 1066 | 1067 | rBV3 | 1080 | 1465 | 0.02% | 0.004% |
| 20 | 8.476 | 1073 | 1078 | 1089 | rVB3 | 5095 | 14413 | 0.19% | 0.037% |
| 21 | 8.573 | 1089 | 1094 | 1100 | rVB4 | 1288 | 2905 | 0.04% | 0.008% |
| 22 | 8.695 | 1107 | 1114 | 1121 | rVB2 | 4676 | 9088 | 0.12% | 0.024% |
| 23 | 8.842 | 1127 | 1138 | 1148 | rBV | 192772 | 386332 | 4.98% | 1.002% |
| 24 | 9.073 | 1166 | 1176 | 1183 | rBV3 | 4578 | 10257 | 0.13% | 0.027% |
| 25 | 9.153 | 1183 | 1189 | 1192 | rVB | 756 | 1314 | 0.02% | 0.003% |
| 26 | 9.274 | 1196 | 1209 | 1216 | rBV | 123752 | 257018 | 3.32% | 0.667% |
| 27 | 9.390 | 1223 | 1228 | 1235 | rVB4 | 4776 | 9792 | 0.13% | 0.025% |
| 28 | 9.518 | 1244 | 1249 | 1254 | rVB4 | 1219 | 2033 | 0.03% | 0.005% |
| 29 | 9.610 | 1254 | 1264 | 1269 | rVB5 | 1607 | 4727 | 0.06% | 0.012% |
| 30 | 9.756 | 1281 | 1288 | 1297 | rBB3 | 7542 | 15127 | 0.20% | 0.039% |
| 31 | 9.896 | 1303 | 1311 | 1316 | rBV | 10785 | 21654 | 0.28% | 0.056% |
| 32 | 9.957 | 1316 | 1321 | 1324 | rBV2 | 8678 | 15734 | 0.20% | 0.041% |
| 33 | 10.037 | 1328 | 1334 | 1339 | rVV | 66072 | 112998 | 1.46% | 0.293% |
| 34 | 10.098 | 1339 | 1344 | 1357 | rVB2 | 12114 | 29935 | 0.39% | 0.078% |
| 35 | 10.213 | 1357 | 1363 | 1364 | rBV2 | 2932 | 4398 | 0.06% | 0.011% |
| 36 | 10.250 | 1364 | 1369 | 1374 | rVB | 7674 | 13839 | 0.18% | 0.036% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

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 | 10.323 | 1374 | 1381 | 1388 | rBV | 309624 | 553347 | 7.14% | 1.436% |
| 38 | 10.390 | 1388 | 1392 | 1396 | rVB | 14180 | 22783 | 0.29% | 0.059% |
| 39 | 10.500 | 1404 | 1410 | 1417 | rVB3 | 15417 | 30280 | 0.39% | 0.079% |
| 40 | 10.579 | 1417 | 1423 | 1428 | rBV | 45056 | 77798 | 1.00% | 0.202% |
| 41 | 10.665 | 1433 | 1437 | 1446 | rVB3 | 8868 | 15922 | 0.21% | 0.041% |
| 42 | 10.762 | 1446 | 1453 | 1458 | rBV4 | 7280 | 16232 | 0.21% | 0.042% |
| 43 | 10.847 | 1462 | 1467 | 1472 | rVB | 11617 | 21483 | 0.28% | 0.056% |
| 44 | 10.927 | 1472 | 1480 | 1487 | rBV2 | 74436 | 146038 | 1.88% | 0.379% |
| 45 | 10.994 | 1488 | 1491 | 1493 | rBV | 6003 | 8038 | 0.10% | 0.021% |
| 46 | 11.030 | 1493 | 1497 | 1506 | rVB3 | 22932 | 52441 | 0.68% | 0.136% |
| 47 | 11.110 | 1506 | 1510 | 1514 | rBV2 | 18390 | 30830 | 0.40% | 0.080% |
| 48 | 11.177 | 1517 | 1521 | 1525 | rBV2 | 18506 | 29291 | 0.38% | 0.076% |
| 49 | 11.231 | 1525 | 1530 | 1535 | rVV | 26826 | 44041 | 0.57% | 0.114% |
| 50 | 11.335 | 1543 | 1547 | 1551 | rBV2 | 19755 | 28069 | 0.36% | 0.073% |
| 51 | 11.378 | 1551 | 1554 | 1555 | rBV3 | 10679 | 12152 | 0.16% | 0.032% |
| 52 | 11.512 | 1571 | 1576 | 1581 | rBV2 | 29189 | 52170 | 0.67% | 0.135% |
| 53 | 11.628 | 1589 | 1595 | 1605 | rBV | 290176 | 521730 | 6.73% | 1.354% |
| 54 | 11.731 | 1605 | 1612 | 1620 | rVV | 373838 | 643152 | 8.30% | 1.669% |
| 55 | 11.835 | 1620 | 1629 | 1639 | rVV | 1174618 | 2355204 | 30.38% | 6.111% |
| 56 | 11.914 | 1639 | 1642 | 1648 | rVB | 86244 | 140275 | 1.81% | 0.364% |
| 57 | 11.975 | 1648 | 1652 | 1654 | rBV3 | 6913 | 11248 | 0.15% | 0.029% |
| 58 | 12.164 | 1671 | 1683 | 1690 | rBV2 | 353079 | 839360 | 10.83% | 2.178% |
| 59 | 12.250 | 1693 | 1697 | 1701 | rVB | 76532 | 112836 | 1.46% | 0.293% |
| 60 | 12.304 | 1701 | 1706 | 1708 | rBV2 | 45730 | 83070 | 1.07% | 0.216% |
| 61 | 12.384 | 1715 | 1719 | 1726 | rVB | 181091 | 283151 | 3.65% | 0.735% |
| 62 | 12.463 | 1727 | 1732 | 1738 | rVB | 89051 | 145713 | 1.88% | 0.378% |
| 63 | 12.561 | 1746 | 1748 | 1752 | rVB2 | 43918 | 52799 | 0.68% | 0.137% |
| 64 | 12.695 | 1764 | 1770 | 1776 | rBV2 | 127877 | 245828 | 3.17% | 0.638% |
| 65 | 12.798 | 1780 | 1787 | 1792 | rVB | 203775 | 459846 | 5.93% | 1.193% |
| 66 | 12.865 | 1792 | 1798 | 1801 | rBV | 619476 | 1021700 | 13.18% | 2.651% |
| 67 | 12.938 | 1806 | 1810 | 1816 | rVV | 693053 | 1198090 | 15.46% | 3.108% |
| 68 | 12.987 | 1816 | 1818 | 1824 | rVB2 | 58960 | 85948 | 1.11% | 0.223% |
| 69 | 13.103 | 1829 | 1837 | 1843 | rBV | 315883 | 621984 | 8.02% | 1.614% |
| 70 | 13.164 | 1843 | 1847 | 1855 | rVB3 | 76491 | 131674 | 1.70% | 0.342% |
| 71 | 13.249 | 1855 | 1861 | 1866 | rBV | 1963577 | 3023466 | 39.00% | 7.845% |
| 72 | 13.438 | 1889 | 1892 | 1896 | rVB2 | 103931 | 151806 | 1.96% | 0.394% |
| 73 | 13.560 | 1906 | 1912 | 1913 | rBV | 338432 | 526455 | 6.79% | 1.366% |
| 74 | 13.585 | 1913 | 1916 | 1929 | rVB | 585693 | 917803 | 11.84% | 2.381% |
| 75 | 13.755 | 1938 | 1944 | 1955 | rVB | 2137060 | 3701737 | 47.75% | 9.604% |
| 76 | 13.865 | 1956 | 1962 | 1969 | rVB3 | 491355 | 1139124 | 14.69% | 2.956% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

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 | 13.938 | 1969 | 1974 | 1980 | rBV2 | 124395 | 220506 | 2.84% | 0.572% |
| 78 | 14.005 | 1981 | 1985 | 1988 | rBV | 134930 | 209529 | 2.70% | 0.544% |
| 79 | 14.036 | 1988 | 1990 | 1995 | rVV | 147357 | 187964 | 2.42% | 0.488% |
| 80 | 14.091 | 1995 | 1999 | 2007 | rVB | 240841 | 371193 | 4.79% | 0.963% |
| 81 | 14.200 | 2012 | 2017 | 2022 | rVB2 | 183206 | 293619 | 3.79% | 0.762% |
| 82 | 14.255 | 2022 | 2026 | 2033 | rVB4 | 49223 | 112778 | 1.45% | 0.293% |
| 83 | 14.335 | 2034 | 2039 | 2043 | rBV3 | 68859 | 107767 | 1.39% | 0.280% |
| 84 | 14.414 | 2043 | 2052 | 2055 | rBV2 | 354826 | 801504 | 10.34% | 2.080% |
| 85 | 14.450 | 2055 | 2058 | 2061 | rBV | 183501 | 234444 | 3.02% | 0.608% |
| 86 | 14.639 | 2086 | 2089 | 2092 | rVB | 41676 | 52213 | 0.67% | 0.135% |
| 87 | 14.682 | 2092 | 2096 | 2101 | rBV | 138812 | 231506 | 2.99% | 0.601% |
| 88 | 14.725 | 2101 | 2103 | 2108 | rVB | 60332 | 78073 | 1.01% | 0.203% |
| 89 | 14.804 | 2108 | 2116 | 2121 | rBV3 | 232836 | 575135 | 7.42% | 1.492% |
| 90 | 14.865 | 2121 | 2126 | 2131 | rVB3 | 49435 | 92977 | 1.20% | 0.241% |
| 91 | 14.950 | 2136 | 2140 | 2145 | rBV | 65992 | 104786 | 1.35% | 0.272% |
| 92 | 15.060 | 2154 | 2158 | 2165 | rBV2 | 74487 | 151400 | 1.95% | 0.393% |
| 93 | 15.365 | 2200 | 2208 | 2216 | rVB | 4356290 | 7752106 | 100.00% | 20.113% |
| 94 | 15.462 | 2219 | 2224 | 2230 | rVB | 128495 | 221749 | 2.86% | 0.575% |
| 95 | 15.651 | 2249 | 2255 | 2262 | rVB3 | 57668 | 115273 | 1.49% | 0.299% |
| 96 | 15.944 | 2299 | 2303 | 2309 | rBV3 | 31750 | 58775 | 0.76% | 0.152% |
| 97 | 16.371 | 2363 | 2373 | 2377 | rBV | 121447 | 310002 | 4.00% | 0.804% |
| 98 | 16.438 | 2377 | 2384 | 2397 | rVB | 986005 | 2170809 | 28.00% | 5.632% |
| 99 | 16.566 | 2400 | 2405 | 2409 | rVV3 | 29818 | 66138 | 0.85% | 0.172% |
| 100 | 16.639 | 2409 | 2417 | 2428 | rVB | 1014555 | 2263154 | 29.19% | 5.872% |

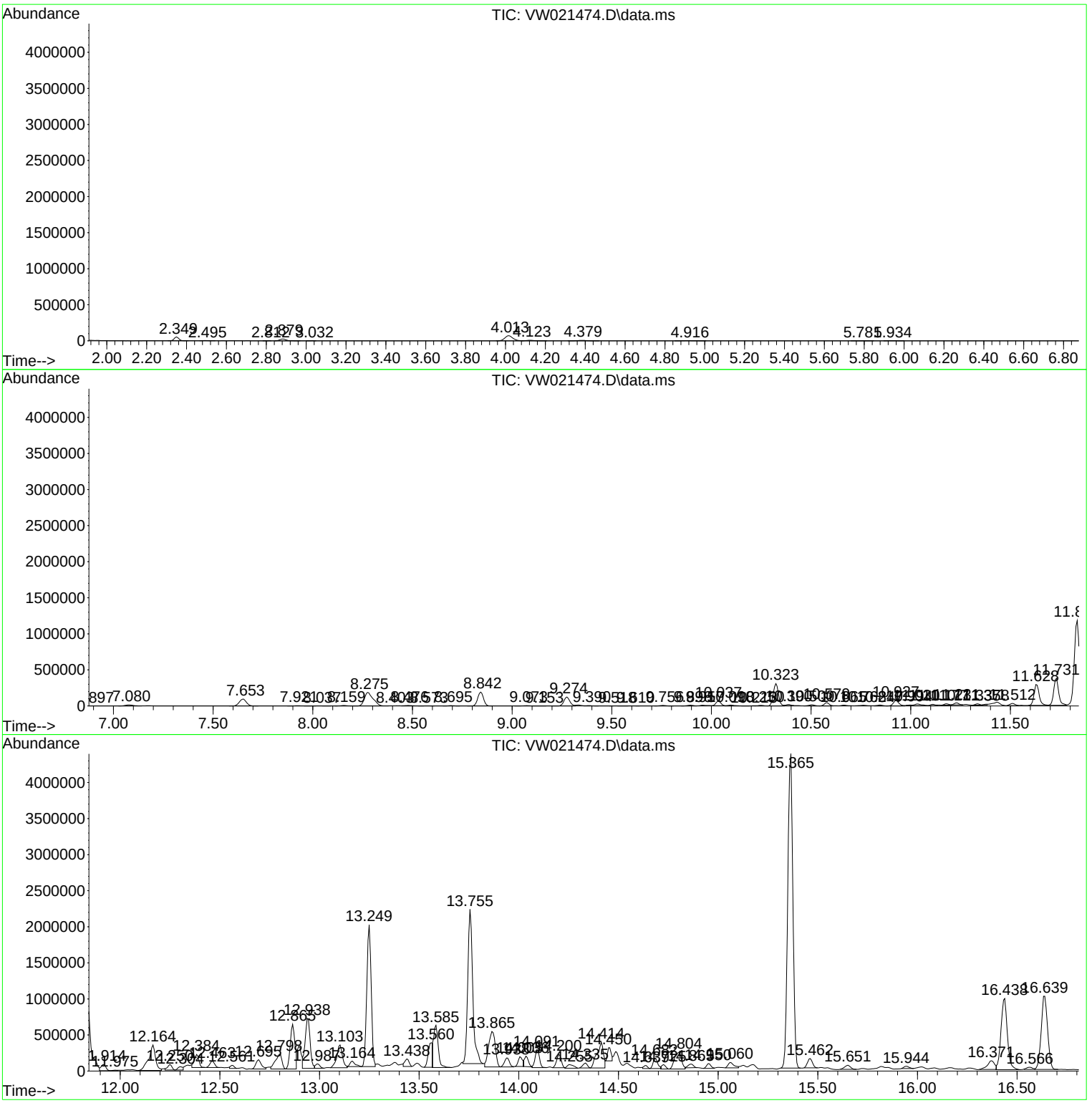
Sum of corrected areas: 38542459

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

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\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

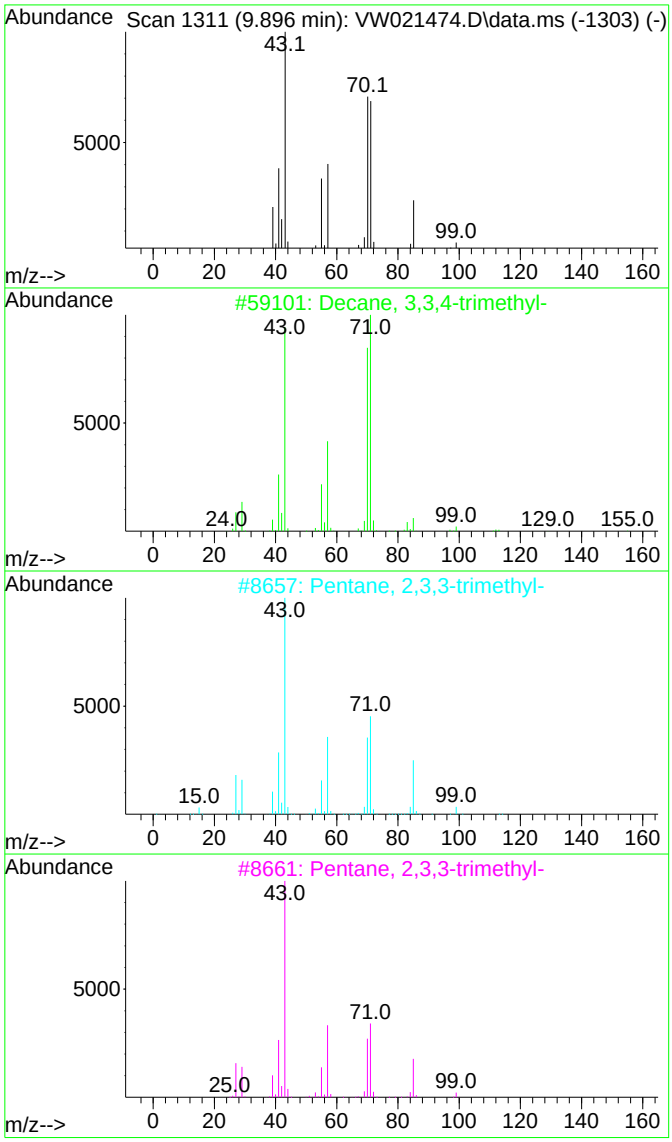
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

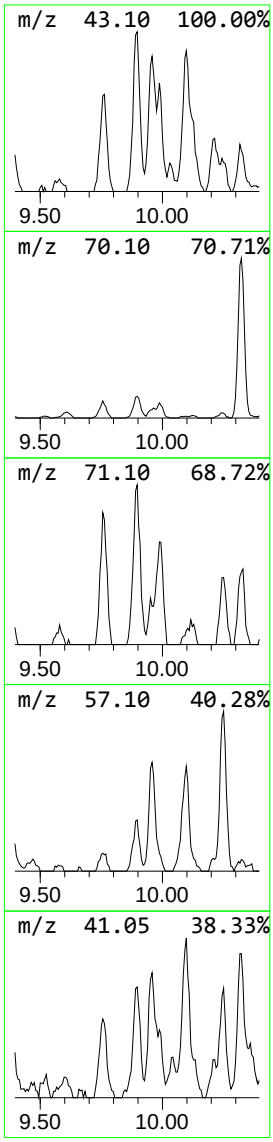
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 44

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.896 | 1.40 ug/L | 21654 | 1,4-Difluorobenzene | 8.842 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 3,3,4-trimethyl- | 184 | C13H28 | 049622-18-6 | 64 |
| 2 | Pentane, 2,3,3-trimethyl- | 114 | C8H18 | 000560-21-4 | 64 |
| 3 | Pentane, 2,3,3-trimethyl- | 114 | C8H18 | 000560-21-4 | 64 |
| 4 | Pentane, 2,3,4-trimethyl- | 114 | C8H18 | 000565-75-3 | 59 |
| 5 | Pentane, 2,3,4-trimethyl- | 114 | C8H18 | 000565-75-3 | 59 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

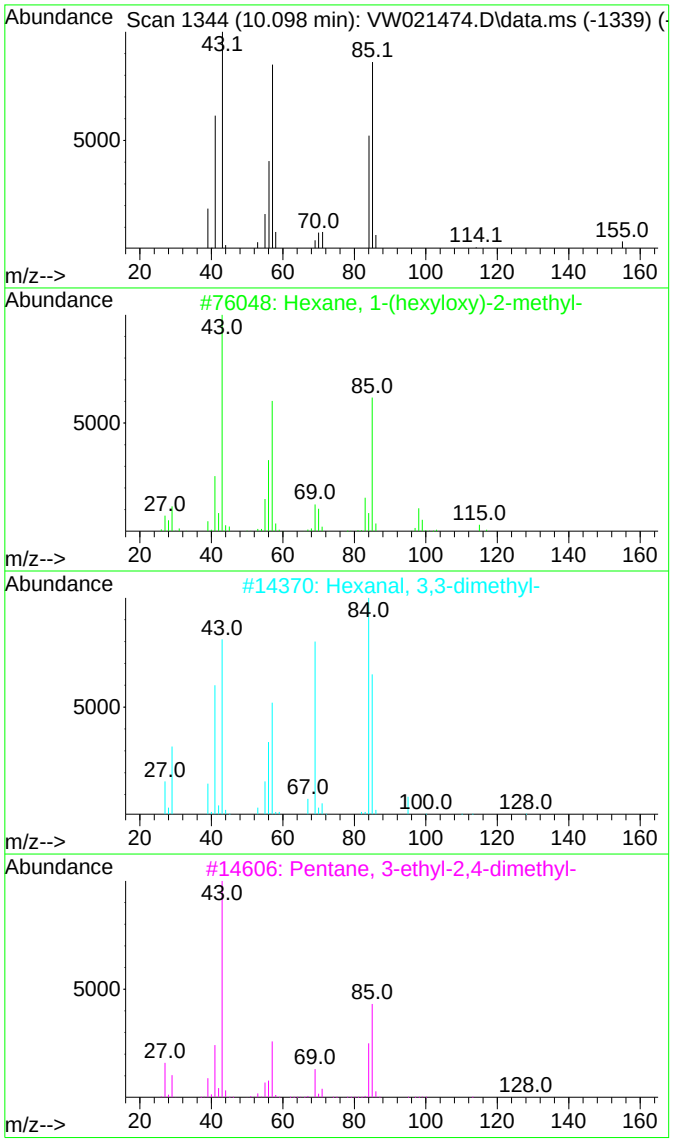
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

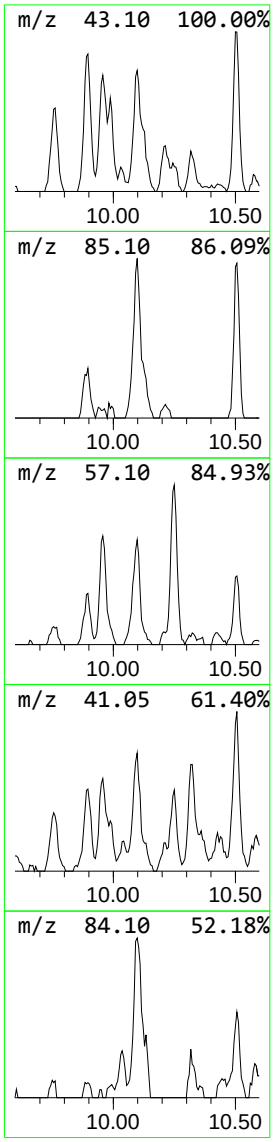
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 Hexane, 1-(hexyloxy)-2-methyl- Concentration Rank 40

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.098 | 1.94 ug/L | 29935 | 1,4-Difluorobenzene | 8.842 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexane, 1-(hexyloxy)-2-methyl- | 200 | C13H28O | 074421-17-3 | 64 |
| 2 | Hexanal, 3,3-dimethyl- | 128 | C8H16O | 055320-57-5 | 59 |
| 3 | Pentane, 3-ethyl-2,4-dimethyl- | 128 | C9H20 | 001068-87-7 | 59 |
| 4 | Pentane, 2,2-dimethyl- | 100 | C7H16 | 000590-35-2 | 59 |
| 5 | Hexane, 2,3,5-trimethyl- | 128 | C9H20 | 001069-53-0 | 59 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

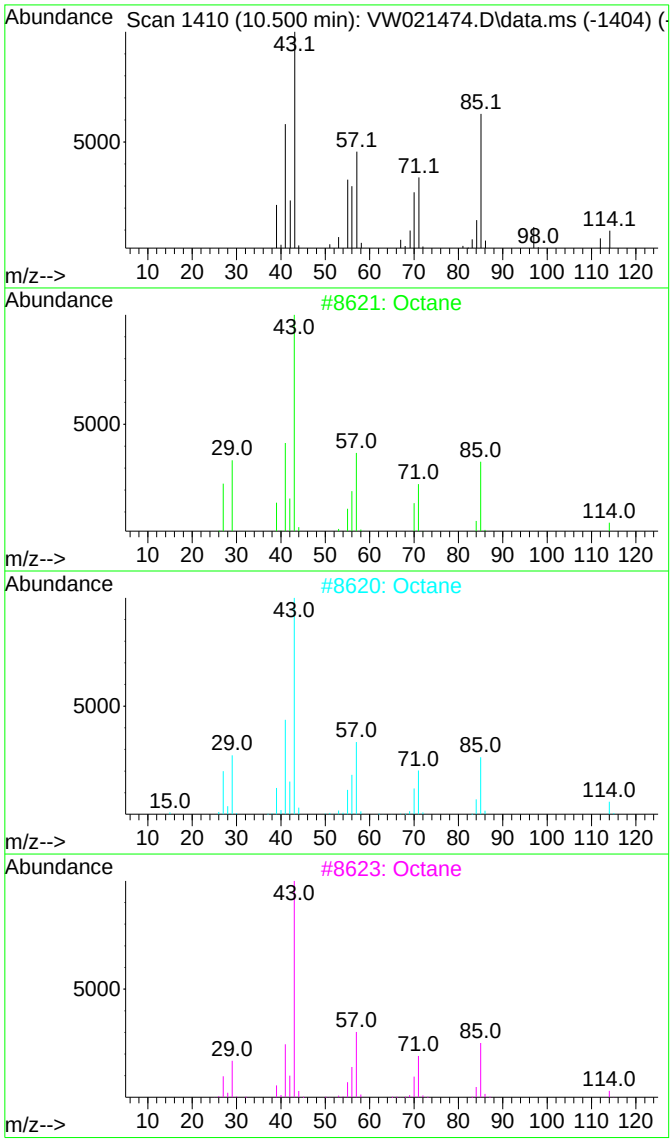
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

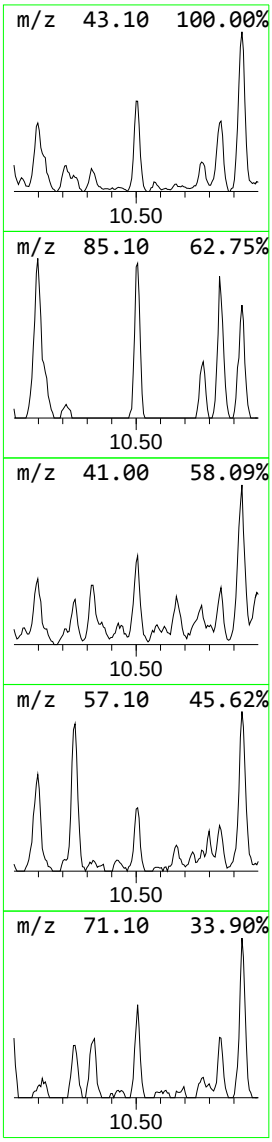
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 42

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.500 | 1.45 ug/L | 30280 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane | 114 | C8H18 | 000111-65-9 | 90 |
| 2 | Octane | 114 | C8H18 | 000111-65-9 | 86 |
| 3 | Octane | 114 | C8H18 | 000111-65-9 | 80 |
| 4 | Octane | 114 | C8H18 | 000111-65-9 | 68 |
| 5 | Octane | 114 | C8H18 | 000111-65-9 | 58 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

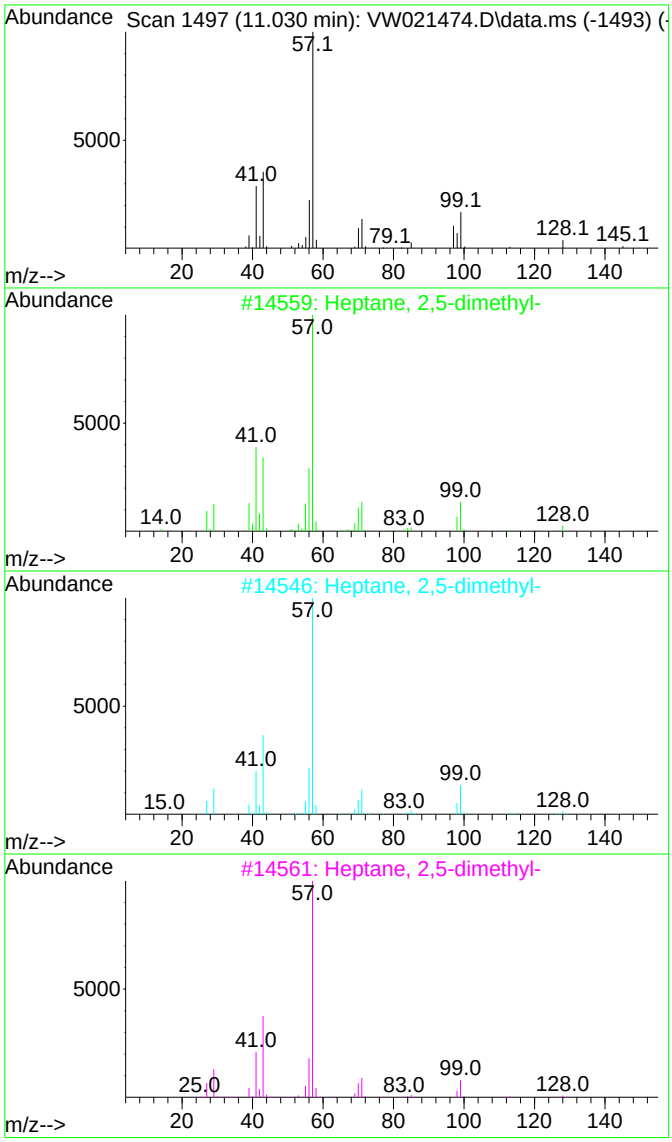
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

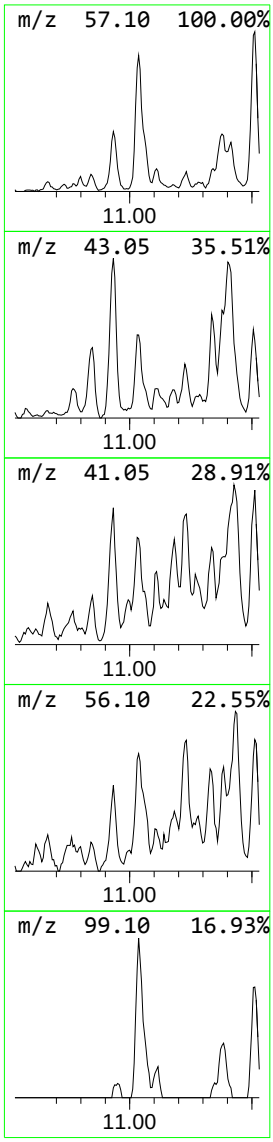
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 36

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.030 | 2.51 ug/L | 52441 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 83 |
| 2 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 83 |
| 3 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 80 |
| 4 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 64 |
| 5 | Heptane, 3,5-dimethyl- | 128 | C9H20 | 000926-82-9 | 59 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

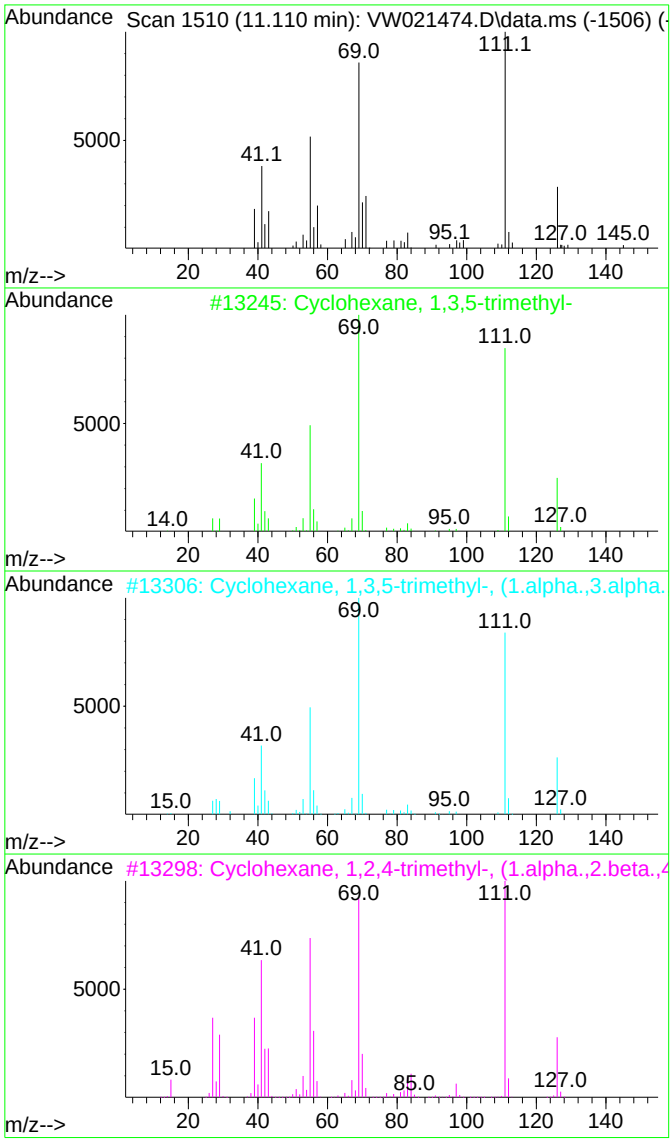
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

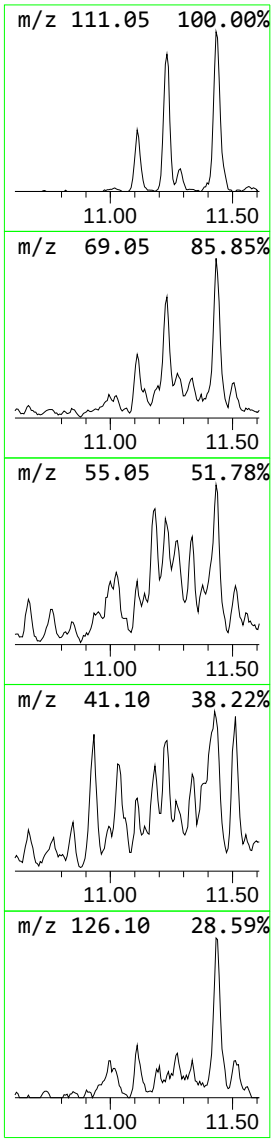
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 6 (DEL) Alkane: Cyclic11.110 Concentration Rank 41

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.110 | 1.48 ug/L | 30830 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,3,5-trimethyl- | 126 | C9H18 | 001839-63-0 | 81 |
| 2 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-27-3 | 81 |
| 3 | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18 | 007667-60-9 | 74 |
| 4 | Cyclohexane, 1,3,5-trimethyl- | 126 | C9H18 | 001839-63-0 | 74 |
| 5 | Cyclohexane, 1,3,5-trimethyl- | 126 | C9H18 | 001839-63-0 | 72 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

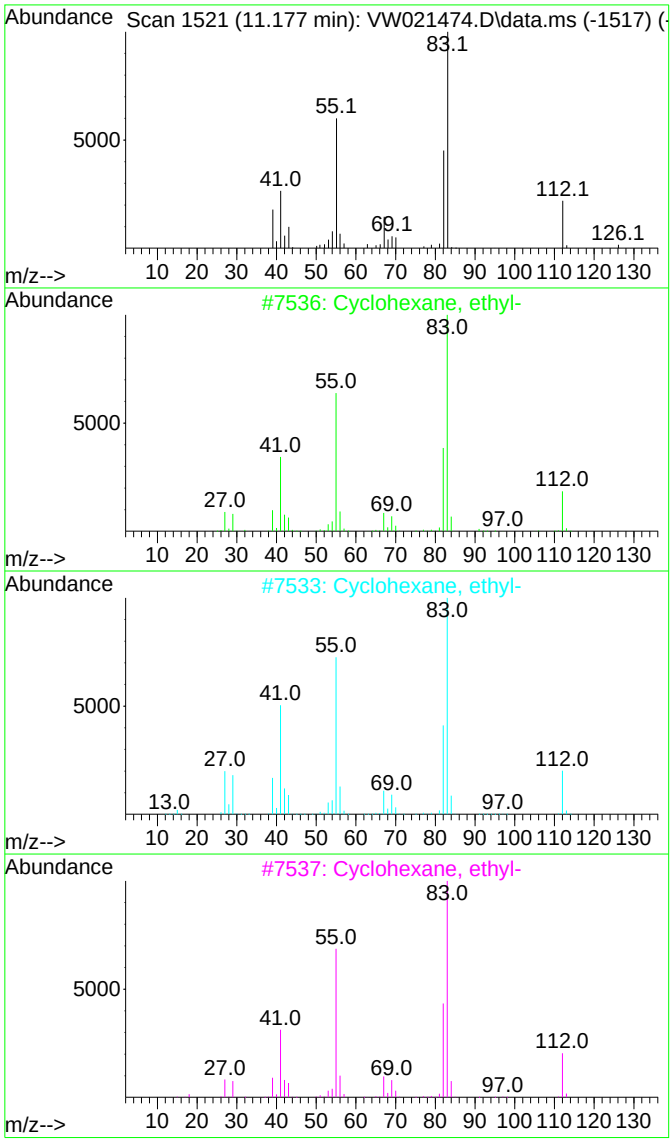
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

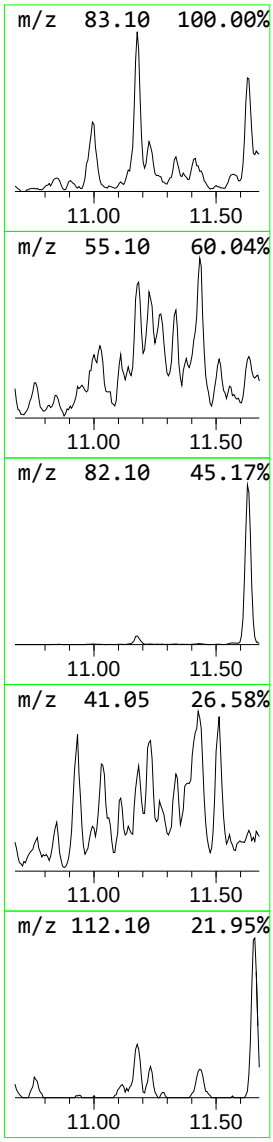
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 7 (DEL) Alkane: Cyclic11.177 Concentration Rank 43

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.177 | 1.40 ug/L | 29291 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, ethyl- | 112 | C8H16 | 001678-91-7 | 90 |
| 2 | Cyclohexane, ethyl- | 112 | C8H16 | 001678-91-7 | 78 |
| 3 | Cyclohexane, ethyl- | 112 | C8H16 | 001678-91-7 | 72 |
| 4 | Cyclopentane, 1-ethyl-2-methyl- | 112 | C8H16 | 003726-46-3 | 64 |
| 5 | Cyclohexane, 2-propenyl- | 124 | C9H16 | 002114-42-3 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

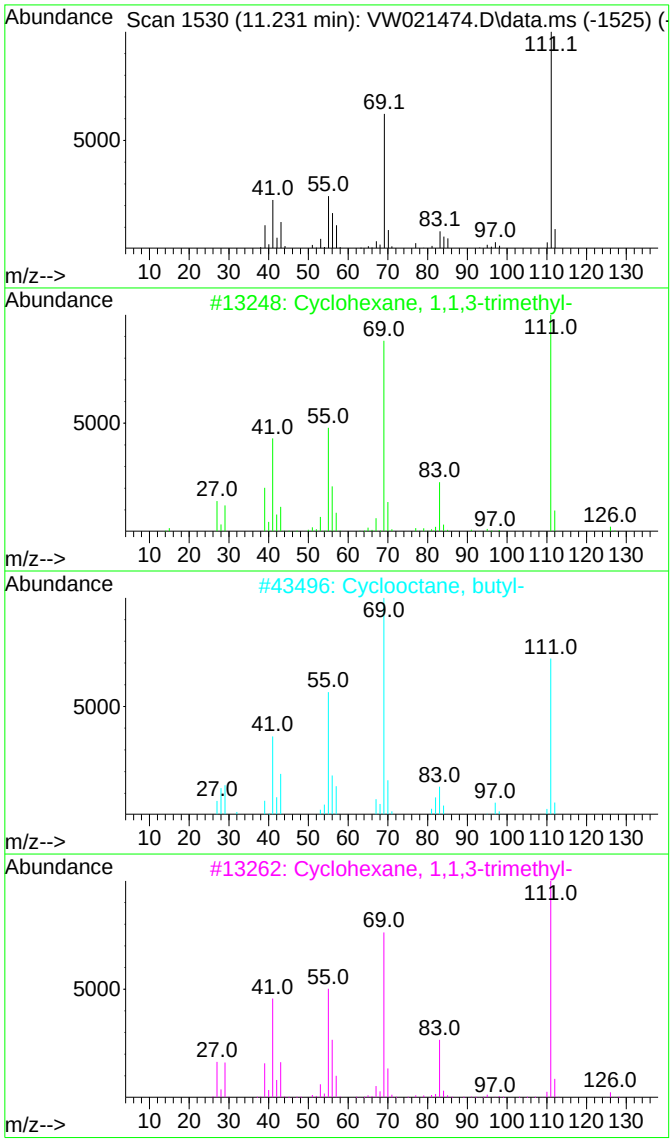
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

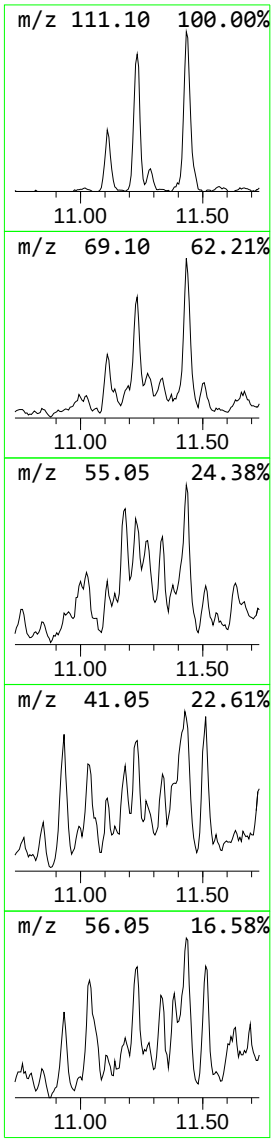
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 8 (DEL) Alkane: Cyclic11.232 Concentration Rank 39

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.232 | 2.11 ug/L | 44041 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 72 |
| 2 | Cyclooctane, butyl- | 168 | C12H24 | 016538-93-5 | 64 |
| 3 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 64 |
| 4 | 1-Aminocyclopropanecarboxylic ac... | 156 | C7H12N2O2 | 1000375-50-8 | 64 |
| 5 | p-Fluoroaniline | 111 | C6H6FN | 000371-40-4 | 59 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

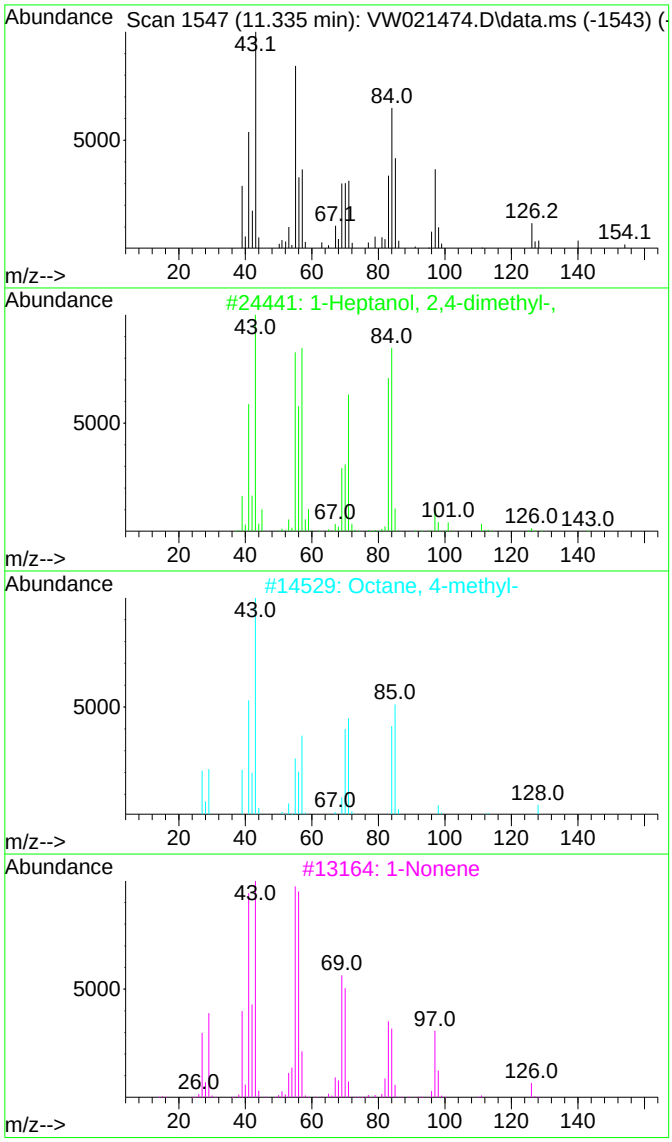
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

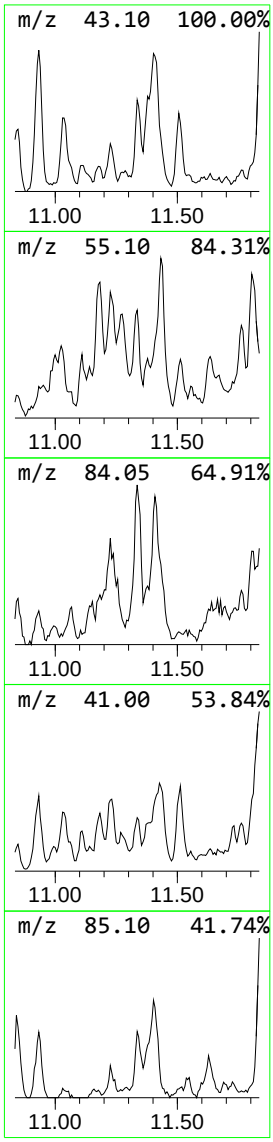
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 9 1-Heptanol, 2,4-dimethyl-, Concentration Rank 45

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.335 | 1.35 ug/L | 28069 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Heptanol, 2,4-dimethyl- | 144 | C9H20O | 098982-97-9 | 47 |
| 2 | Octane, 4-methyl- | 128 | C9H20 | 002216-34-4 | 45 |
| 3 | 1-Nonene | 126 | C9H18 | 000124-11-8 | 38 |
| 4 | Octane, 4-methyl- | 128 | C9H20 | 002216-34-4 | 38 |
| 5 | 3-Nonene | 126 | C9H18 | 020063-77-8 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

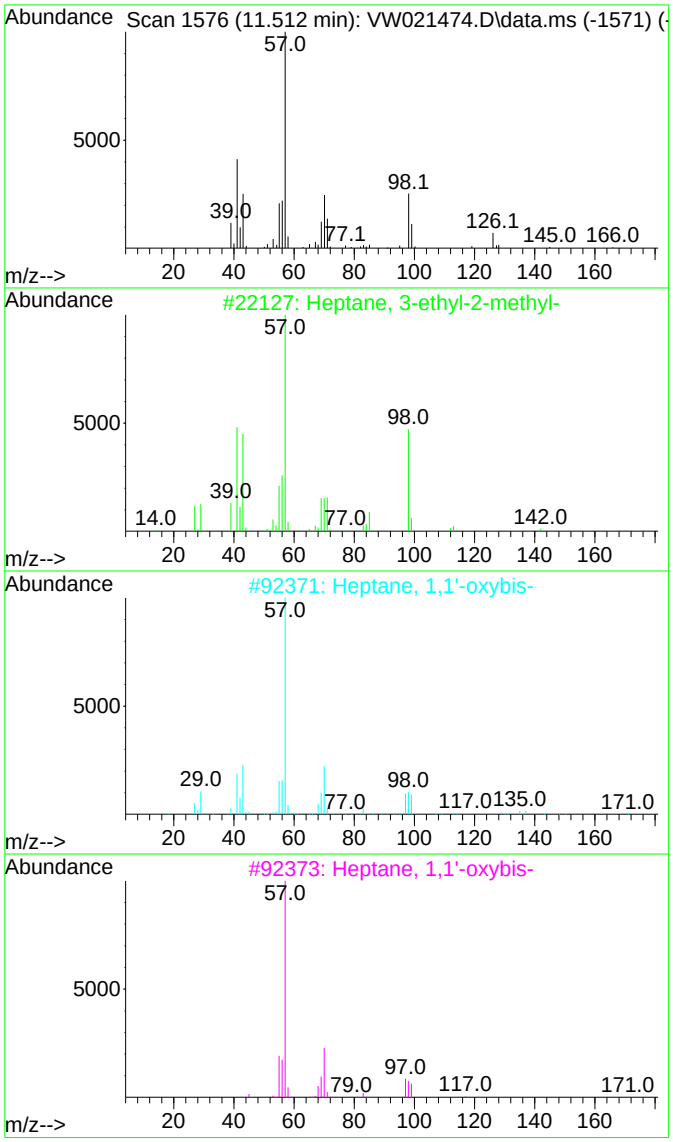
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

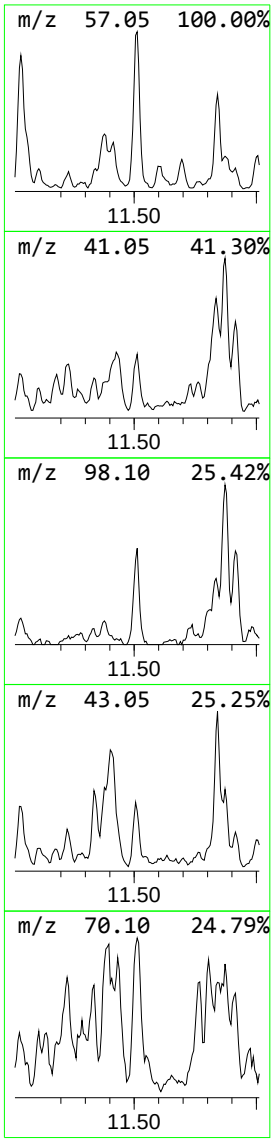
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 37

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.512 | 2.50 ug/L | 52170 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 3-ethyl-2-methyl- | 142 | C10H22 | 014676-29-0 | 64 |
| 2 | Heptane, 1,1'-oxybis- | 214 | C14H30O | 000629-64-1 | 64 |
| 3 | Heptane, 1,1'-oxybis- | 214 | C14H30O | 000629-64-1 | 59 |
| 4 | Octane, 4,5-dipropyl- | 198 | C14H30 | 020905-05-9 | 59 |
| 5 | Heptane, 3-ethyl- | 128 | C9H20 | 015869-80-4 | 58 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

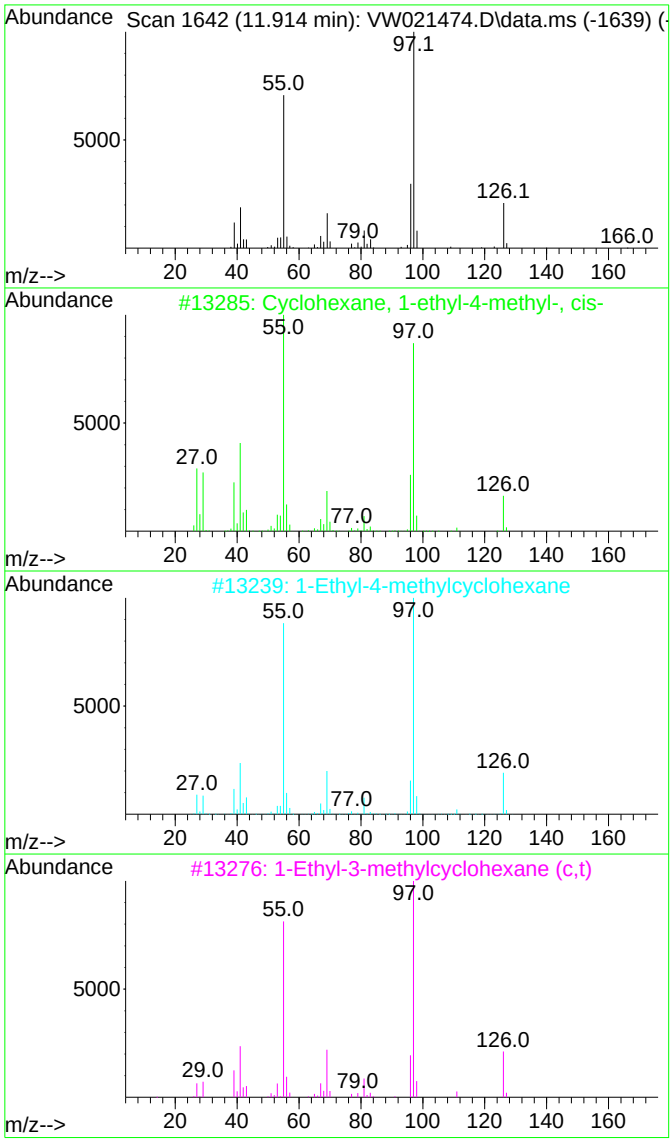
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

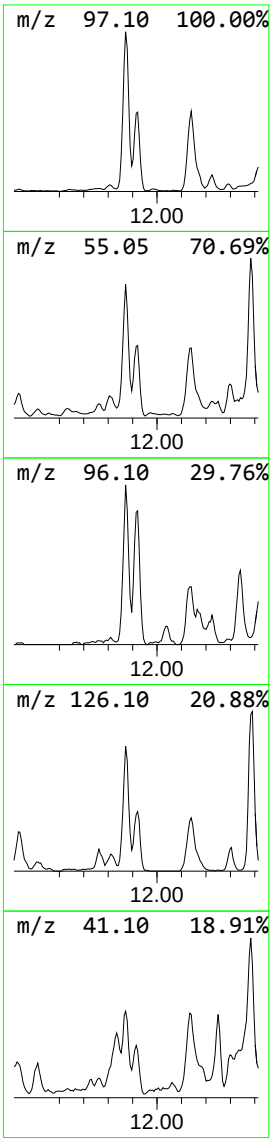
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 11 (DEL) Alkane: Cyclic11.914 Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.914 | 6.72 ug/L | 140275 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 004926-78-7 | 91 |
| 2 | 1-Ethyl-4-methylcyclohexane | 126 | C9H18 | 003728-56-1 | 86 |
| 3 | 1-Ethyl-3-methylcyclohexane (c,t) | 126 | C9H18 | 003728-55-0 | 80 |
| 4 | Cyclohexane, 1-ethyl-2-methyl- | 126 | C9H18 | 003728-54-9 | 78 |
| 5 | 1H-Pyrazole, 4,5-dihydro-3-methy... | 126 | C7H14N2 | 026964-49-8 | 72 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

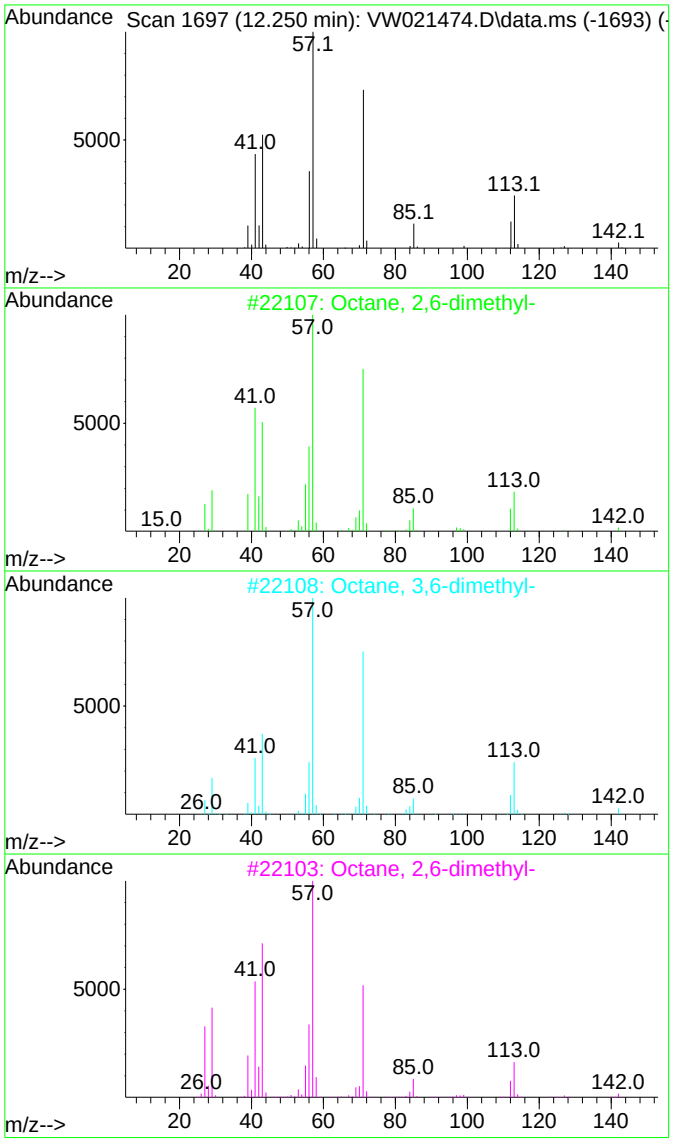
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

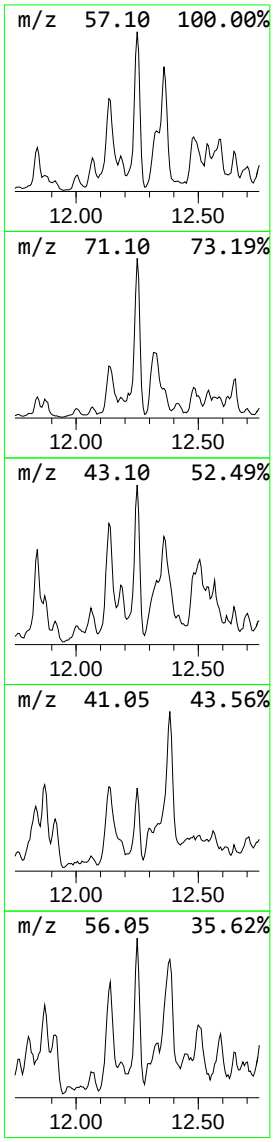
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.250 | 5.41 ug/L | 112836 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 91 |
| 2 | Octane, 3,6-dimethyl- | 142 | C10H22 | 015869-94-0 | 91 |
| 3 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 91 |
| 4 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 86 |
| 5 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 83 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

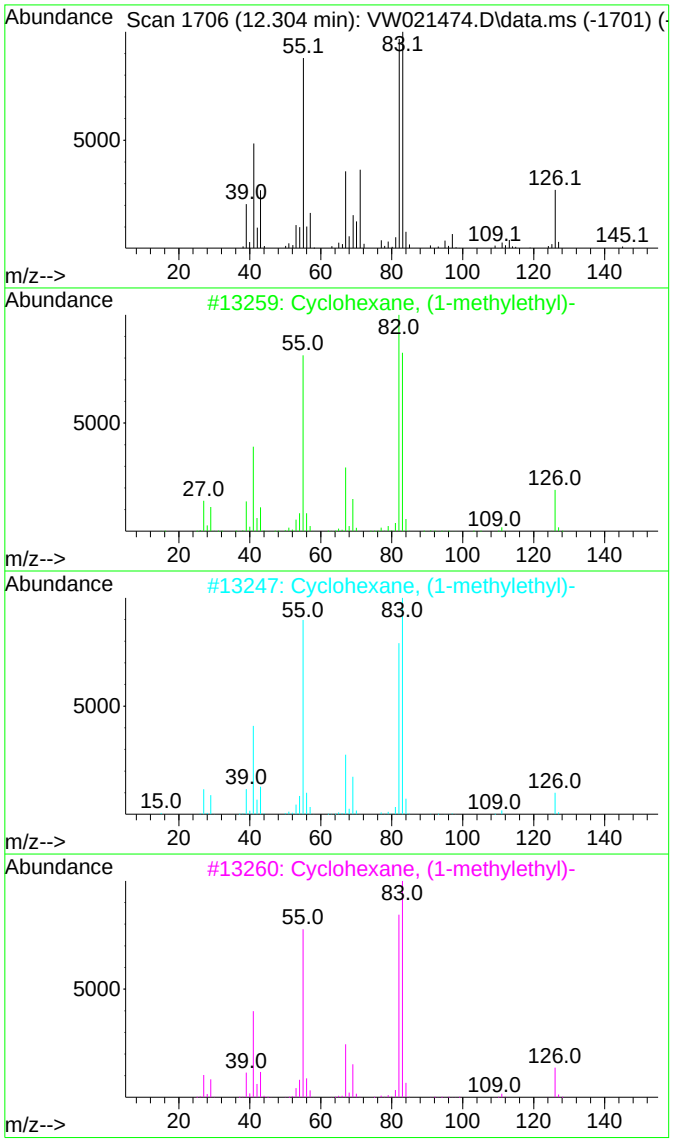
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

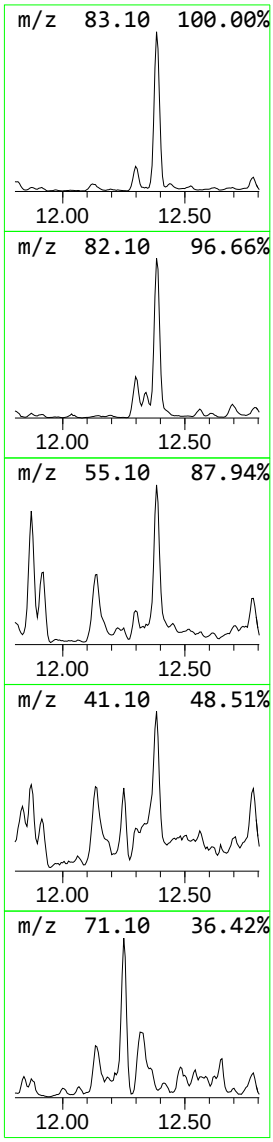
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 13 (DEL) Alkane: Cyclic12.305 Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.305 | 3.98 ug/L | 83070 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 95 |
| 2 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 91 |
| 3 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 91 |
| 4 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 87 |
| 5 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

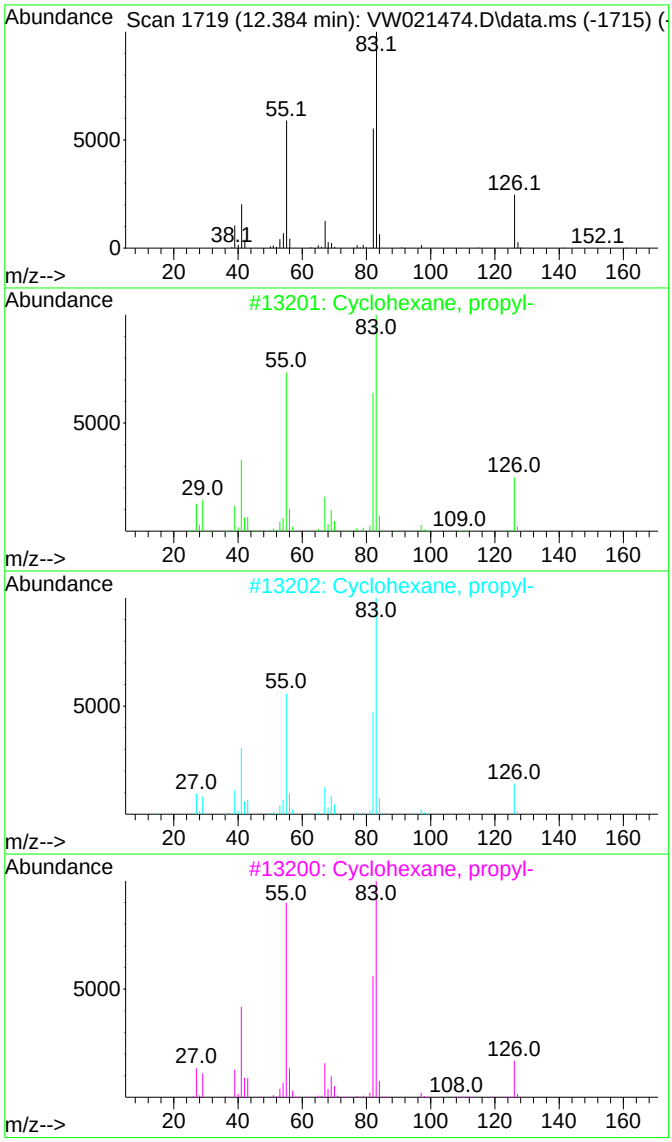
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

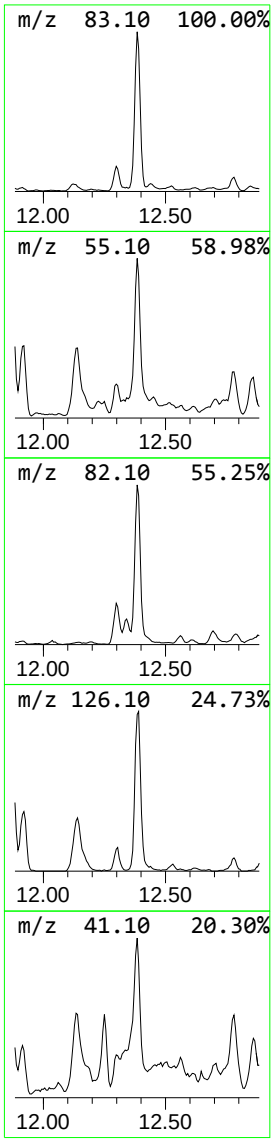
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 14 (DEL) Alkane: Cyclic12.384 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.384 | 13.57 ug/L | 283151 | 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 | 90 |
| 3 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 83 |
| 4 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 83 |
| 5 | Ethanone, 1-(1-methylcyclopentyl)- | 126 | C8H14O | 013388-93-7 | 72 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

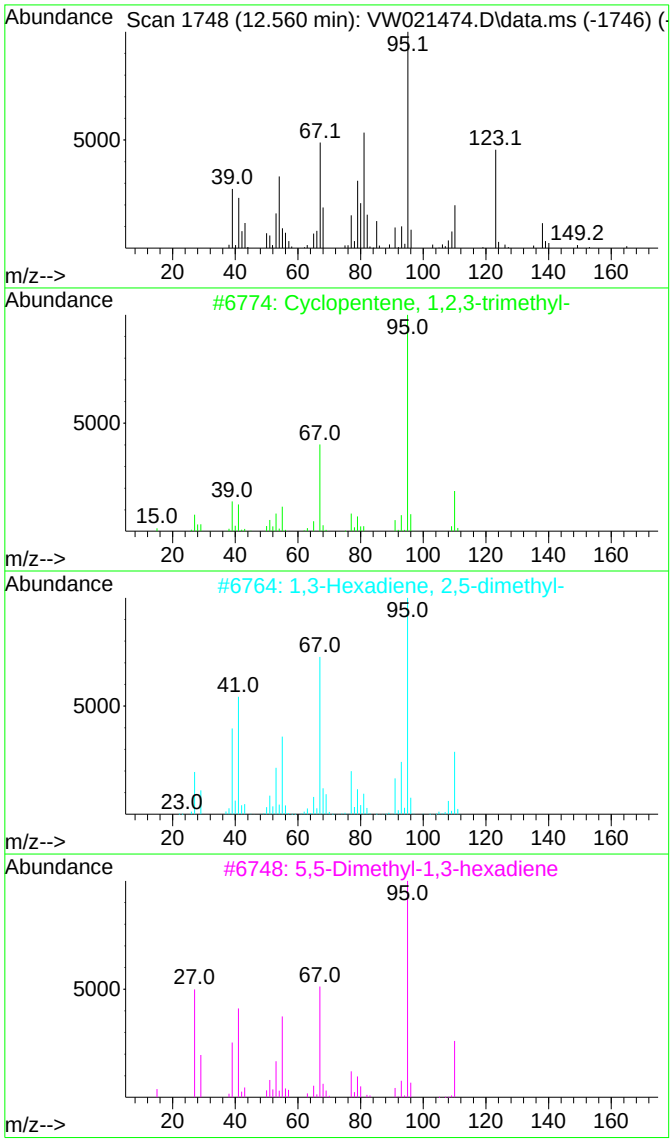
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

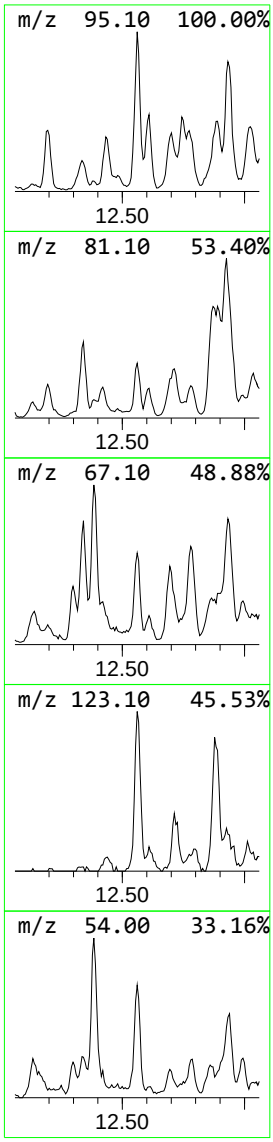
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 15 Cyclopentene, 1,2,3-trimethyl- Concentration Rank 35

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.560 | 2.53 ug/L | 52799 | Chlorobenzene-d5 | 11.628 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentene, 1,2,3-trimethyl- | 110 | C8H14 | 000473-91-6 | 49 |
| 2 | 1,3-Hexadiene, 2,5-dimethyl- | 110 | C8H14 | 029253-64-3 | 46 |
| 3 | 5,5-Dimethyl-1,3-hexadiene | 110 | C8H14 | 001515-79-3 | 46 |
| 4 | 1,4-Pentadiene, 2,3,3-trimethyl- | 110 | C8H14 | 000756-02-5 | 46 |
| 5 | Bicyclo[3.1.0]hexane, 1,5-dimethyl- | 110 | C8H14 | 1010142-17-5 | 46 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

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

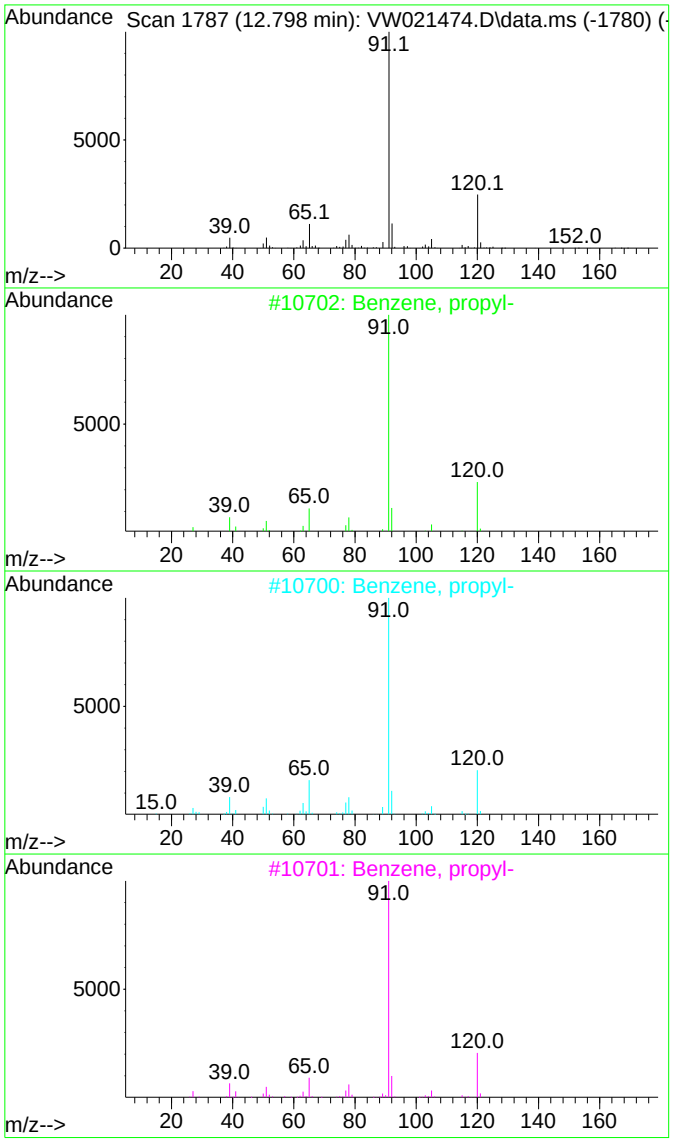
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

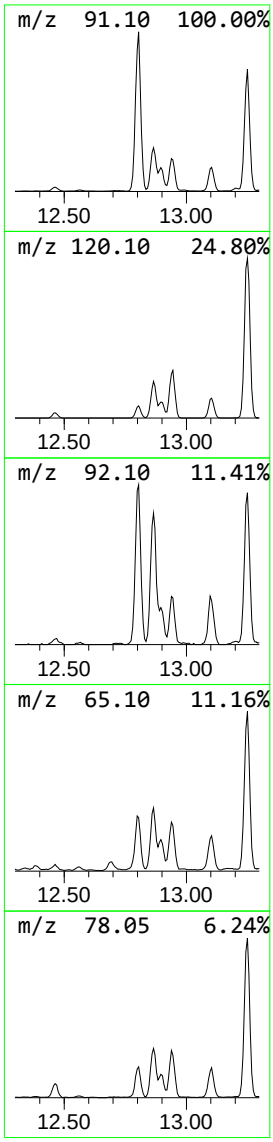
**********

Peak Number 16 Benzene, propyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.798 | 21.84 ug/L | 459846 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 94 |
| 2 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 91 |
| 3 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 91 |
| 4 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 91 |
| 5 | N-Benzyl-2-phenethylamine | 211 | C15H17N | 003647-71-0 | 78 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

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

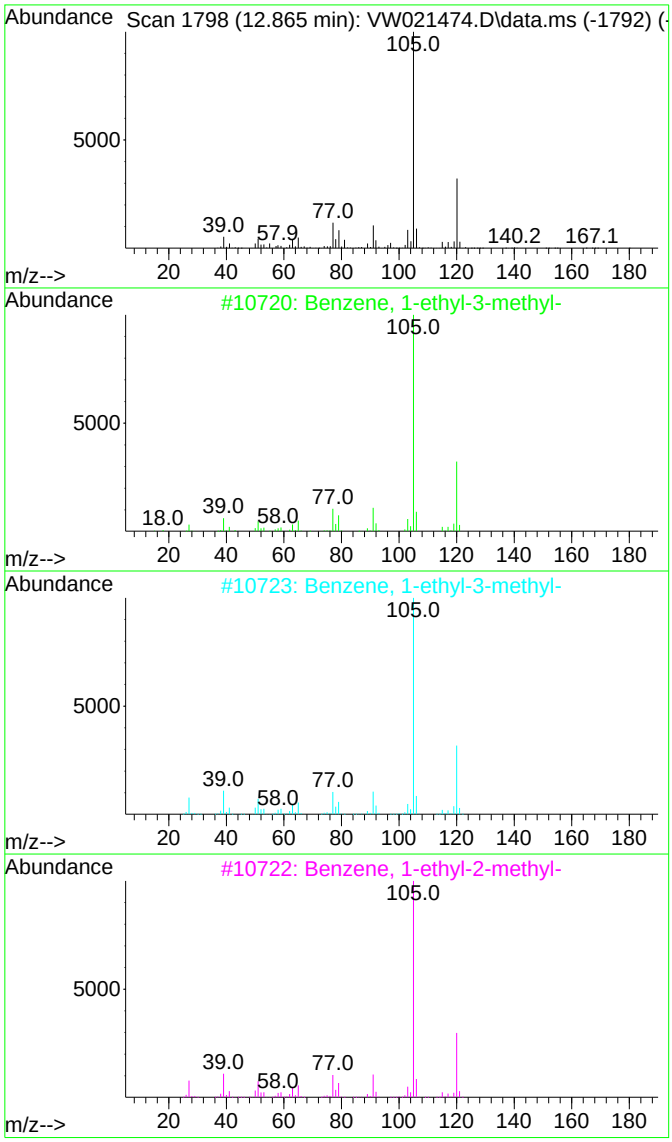
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

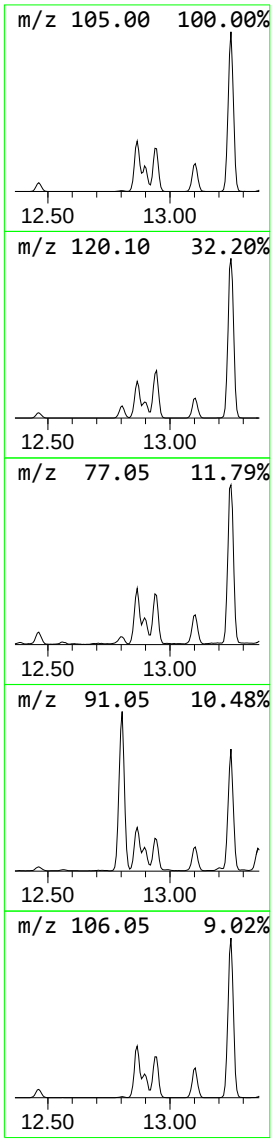
**********

Peak Number 17 Benzene, 1-ethyl-3-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.865 | 48.52 ug/L | 1021700 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 95 |
| 2 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 95 |
| 3 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 95 |
| 4 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 95 |
| 5 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 94 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

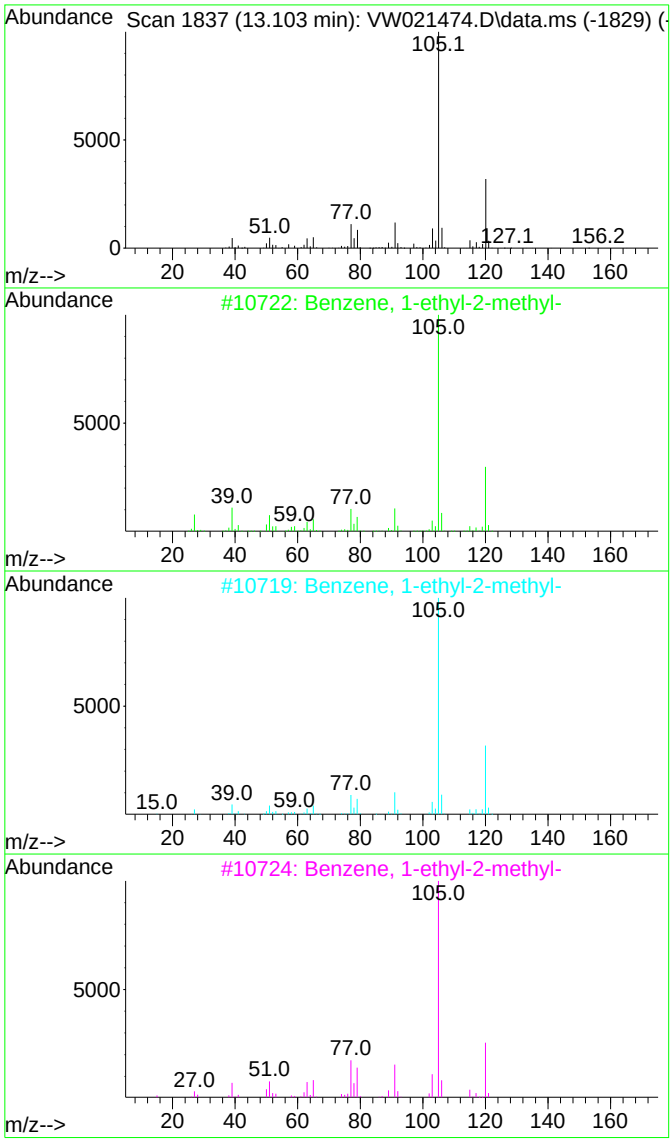
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

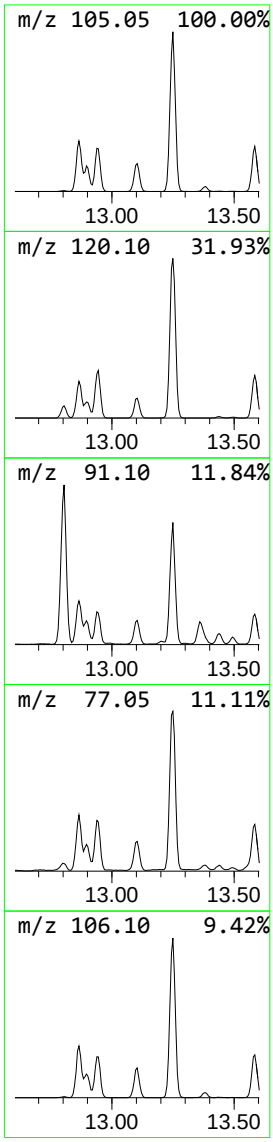
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 18 Benzene, 1-ethyl-2-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.103 | 29.54 ug/L | 621984 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 95 |
| 2 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 94 |
| 3 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 93 |
| 4 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 93 |
| 5 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

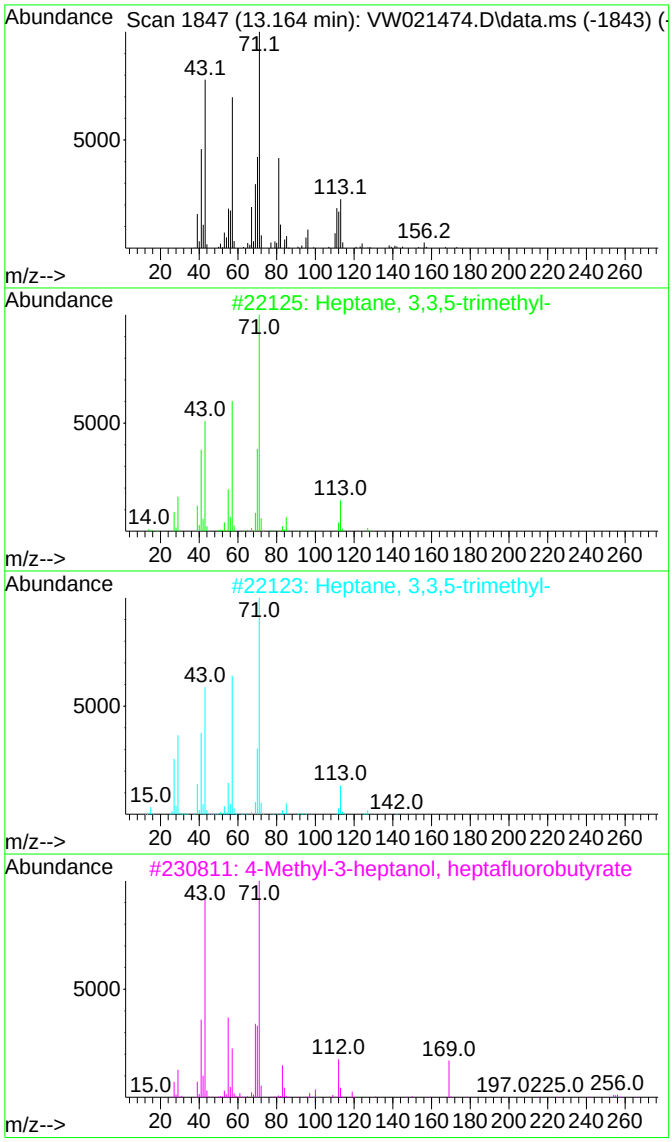
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

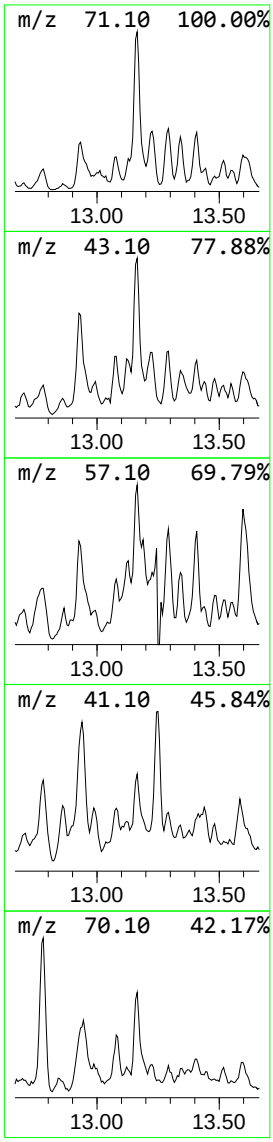
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 19 (DEL) Alkane: Straight-Chai... Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.164 | 6.25 ug/L | 131674 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 3,3,5-trimethyl- | 142 | C10H22 | 007154-80-5 | 59 |
| 2 | Heptane, 3,3,5-trimethyl- | 142 | C10H22 | 007154-80-5 | 53 |
| 3 | 4-Methyl-3-heptanol, heptafluoro... | 326 | C12H17F7O2 | 1000365-51-5 | 53 |
| 4 | Heptane, 3-ethyl-5-methyl- | 142 | C10H22 | 052896-90-9 | 52 |
| 5 | 4-Methyl-3-heptanol, pentafluoro... | 276 | C11H17F5O2 | 1000365-51-7 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

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

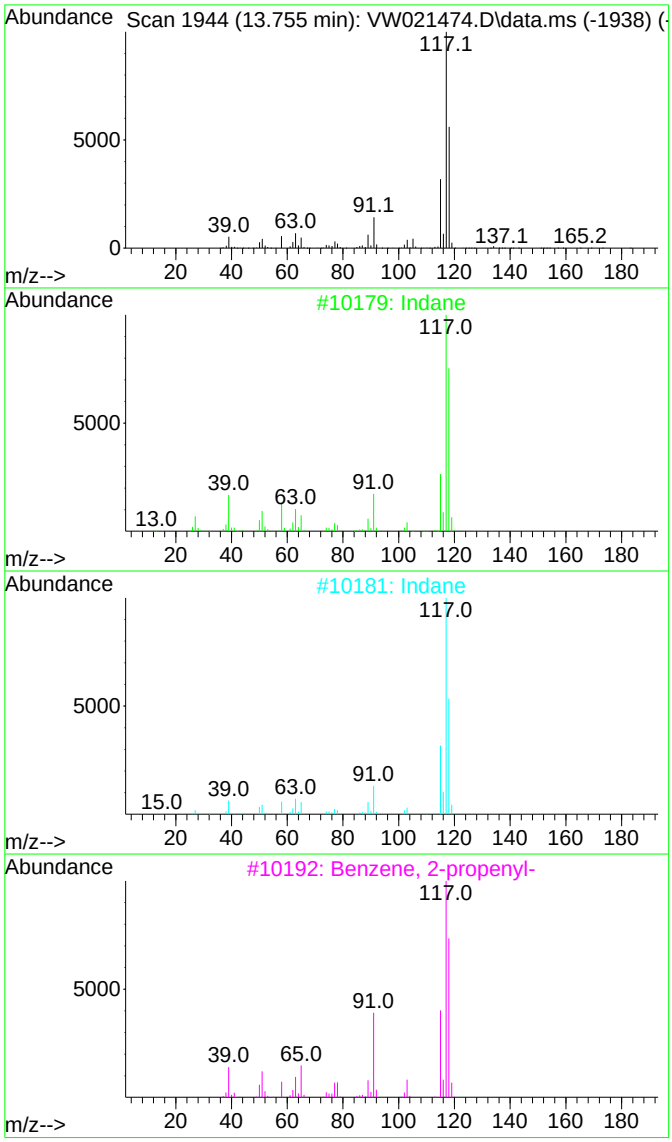
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

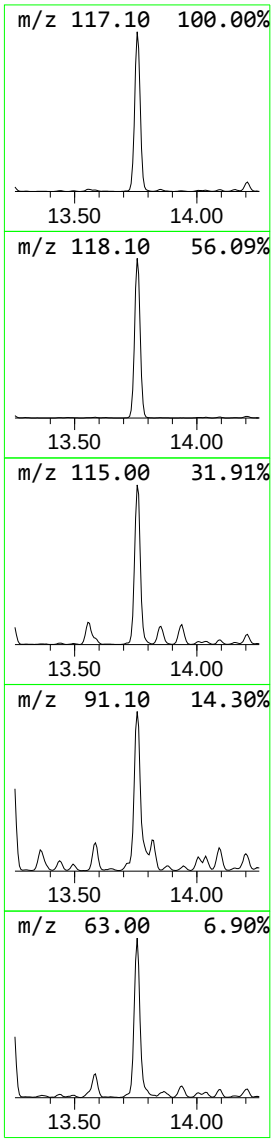
**********

Peak Number 21 Indane Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.755 | 175.79 ug/L | 3701740 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 81 |
| 2 | Indane | 118 | C9H10 | 000496-11-7 | 74 |
| 3 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 72 |
| 4 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 72 |
| 5 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 68 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

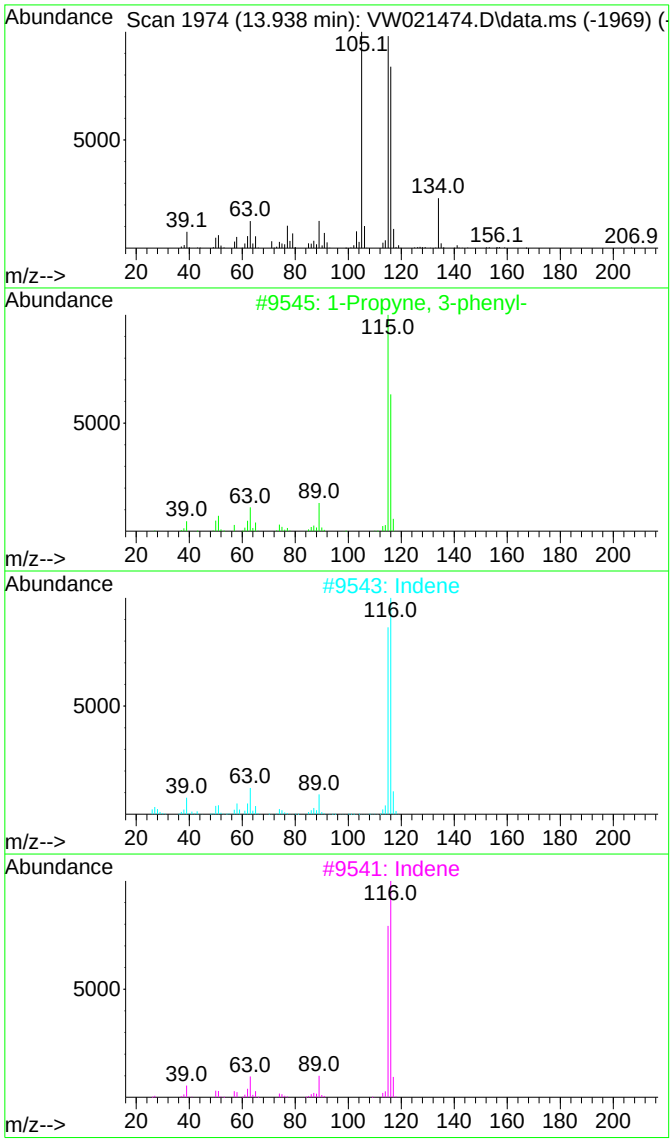
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

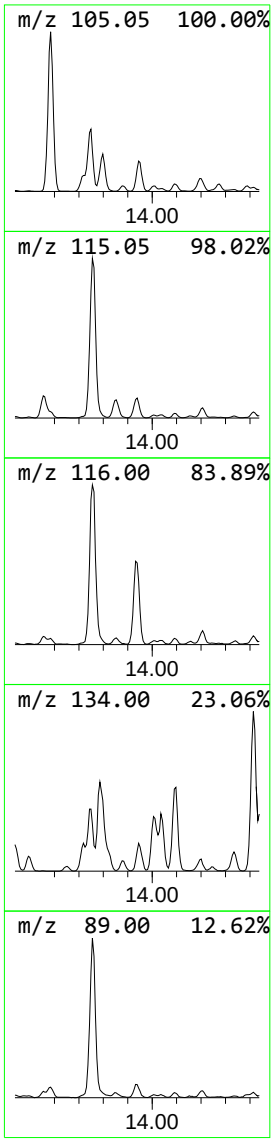
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 22 1-Propyne, 3-phenyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.938 | 10.47 ug/L | 220506 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Propyne, 3-phenyl- | 116 | C9H8 | 010147-11-2 | 94 |
| 2 | Indene | 116 | C9H8 | 000095-13-6 | 94 |
| 3 | Indene | 116 | C9H8 | 000095-13-6 | 94 |
| 4 | Benzene, 1-propynyl- | 116 | C9H8 | 000673-32-5 | 93 |
| 5 | 2-Methylphenylacetylene | 116 | C9H8 | 000766-47-2 | 76 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

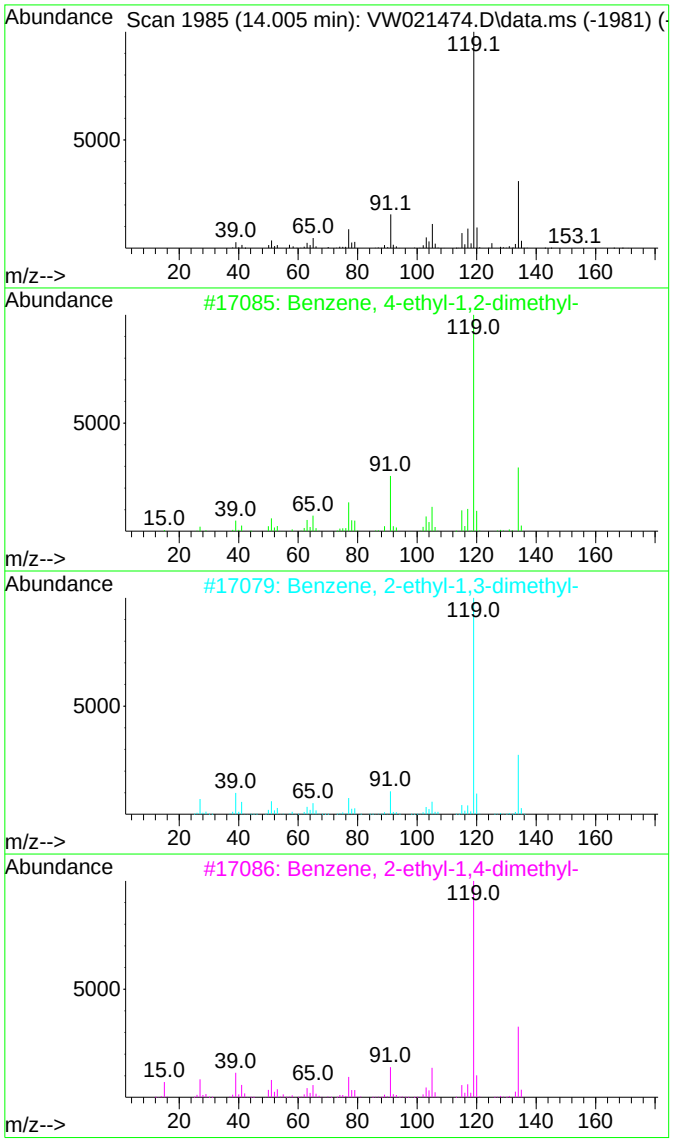
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

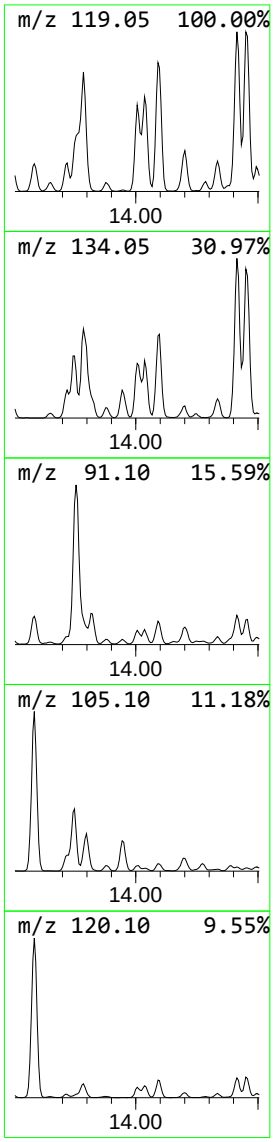
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 23 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.005 | 9.95 ug/L | 209529 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 96 |
| 2 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 95 |
| 3 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 95 |
| 4 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 95 |
| 5 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 95 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

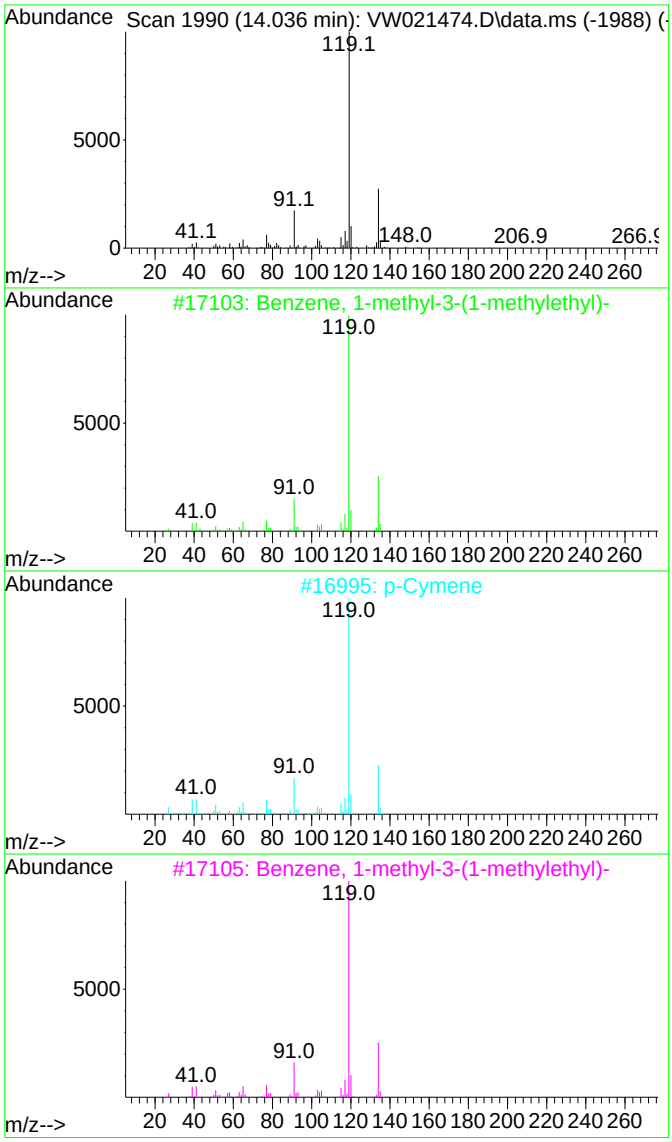
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

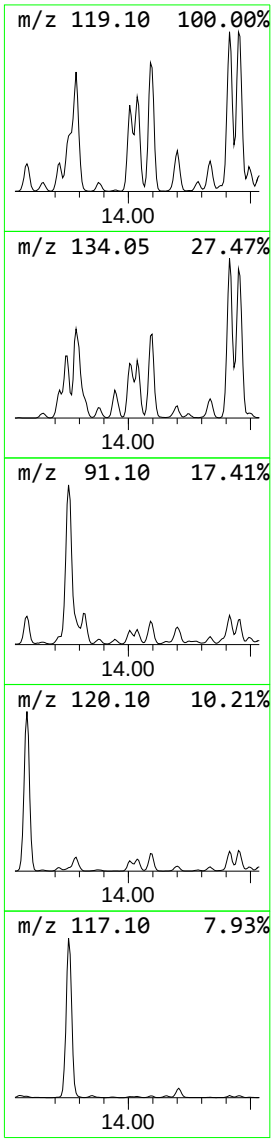
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 24 Benzene, 1-methyl-3-(1-meth... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.036 | 8.93 ug/L | 187964 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 95 |
| 2 | p-Cymene | 134 | C10H14 | 000099-87-6 | 94 |
| 3 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 94 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 94 |
| 5 | o-Cymene | 134 | C10H14 | 000527-84-4 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

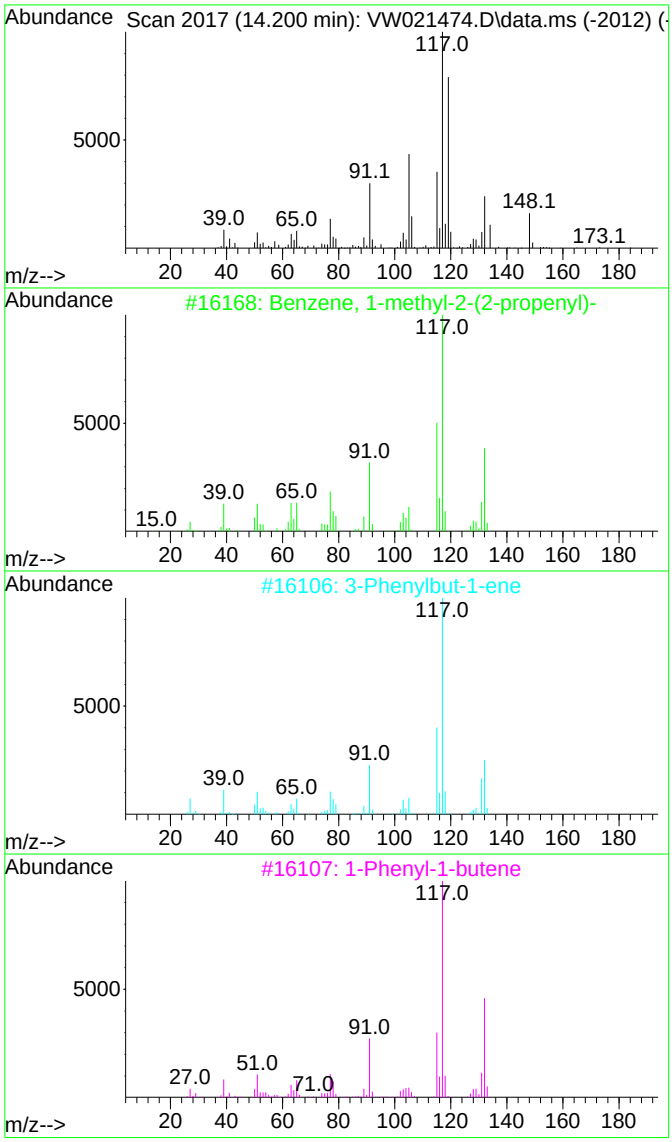
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

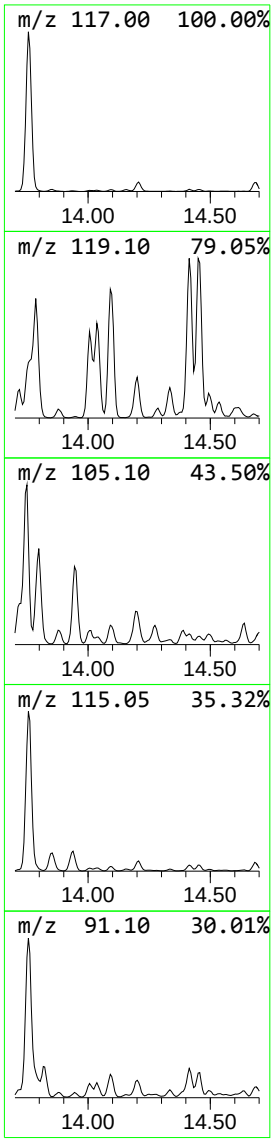
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 26 Benzene, 1-methyl-2-(2-prop... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.201 | 13.94 ug/L | 293619 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12 | 001587-04-8 | 80 |
| 2 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 55 |
| 3 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 55 |
| 4 | 1-Methyl-2-phenylcyclopropane | 132 | C10H12 | 003145-76-4 | 50 |
| 5 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 49 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

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

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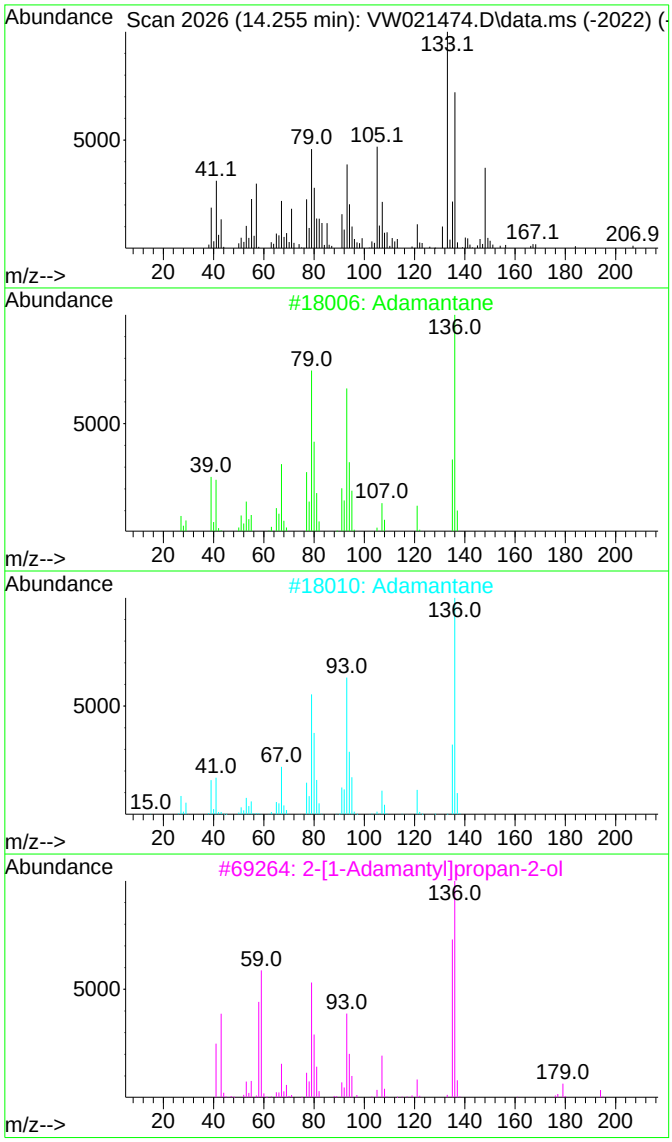
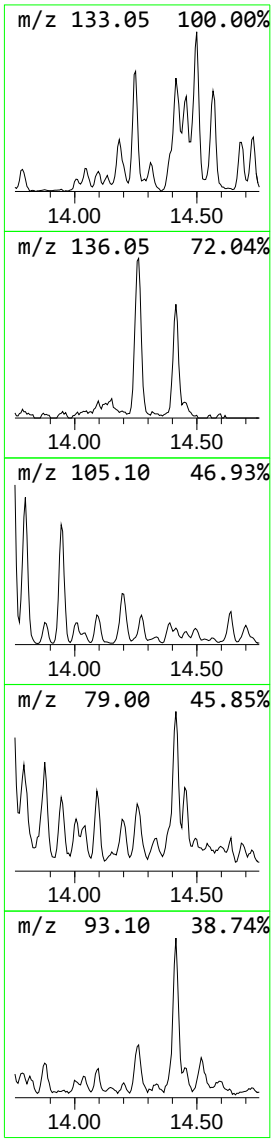
Peak Number 27 Adamantane Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.255 | 5.36 ug/L | 112778 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Adamantane | 136 | C10H16 | 000281-23-2 | 90 |
| 2 | Adamantane | 136 | C10H16 | 000281-23-2 | 78 |
| 3 | 2-[1-Adamantyl]propan-2-ol | 194 | C13H22O | 000775-64-4 | 43 |
| 4 | Adamantane | 136 | C10H16 | 000281-23-2 | 38 |
| 5 | Bicyclo[3.3.1]non-6-en-2-one | 136 | C9H12O | 022482-58-2 | 30 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

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

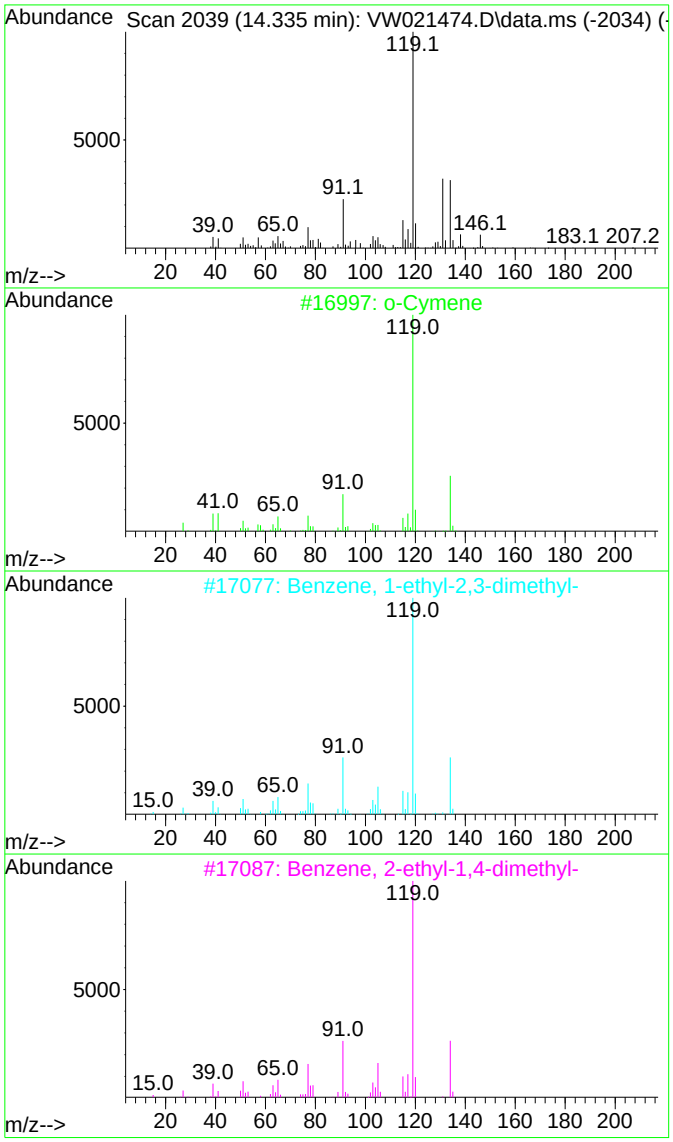
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

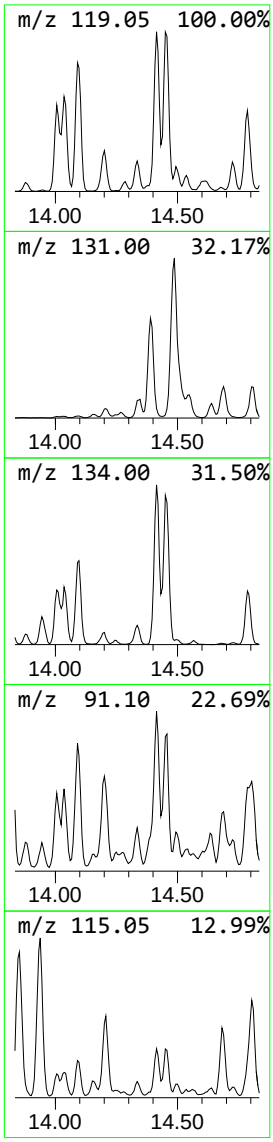
**********

Peak Number 28 o-Cymene Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.335 | 5.12 ug/L | 107767 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | o-Cymene | 134 | C10H14 | 000527-84-4 | 94 |
| 2 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 89 |
| 3 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 89 |
| 4 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 76 |
| 5 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 76 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

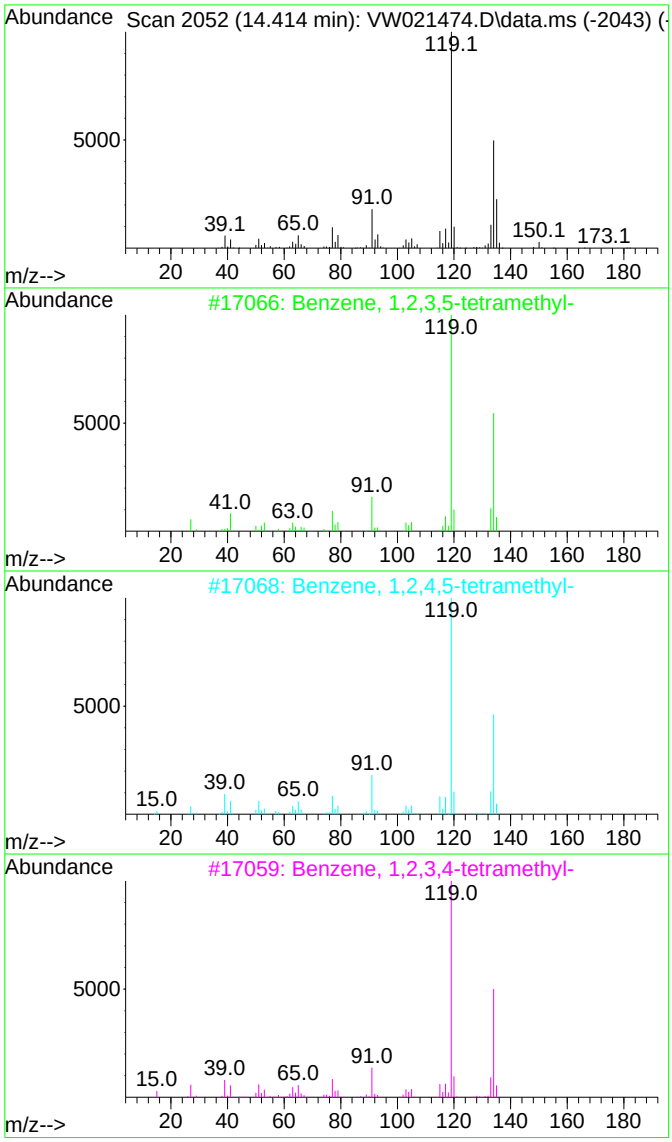
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

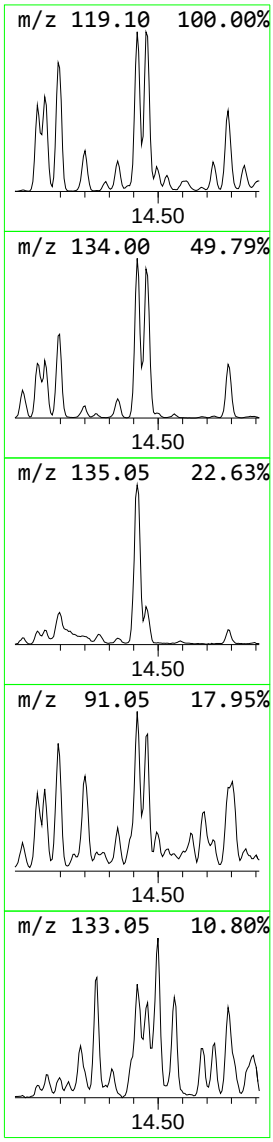
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 29 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.414 | 38.06 ug/L | 801504 | 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 | 94 |
| 2 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 94 |
| 3 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 93 |
| 4 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 93 |
| 5 | 1,3-Cyclopentadiene, 1,2,3,4-tet... | 134 | C10H14 | 076089-59-3 | 93 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

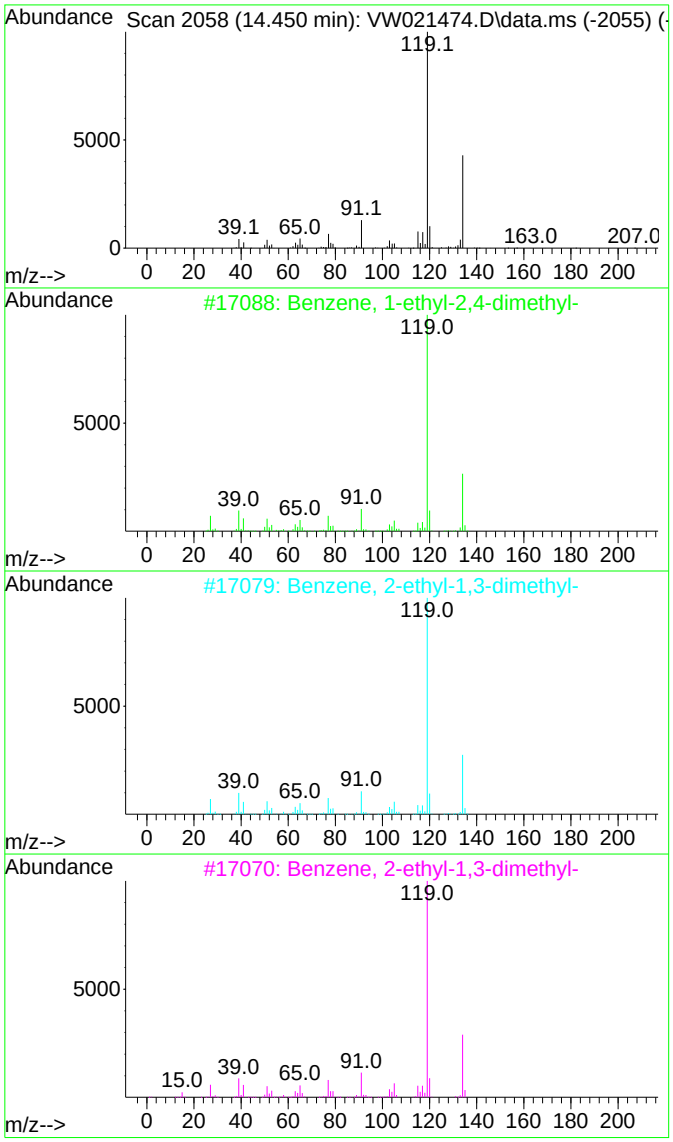
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

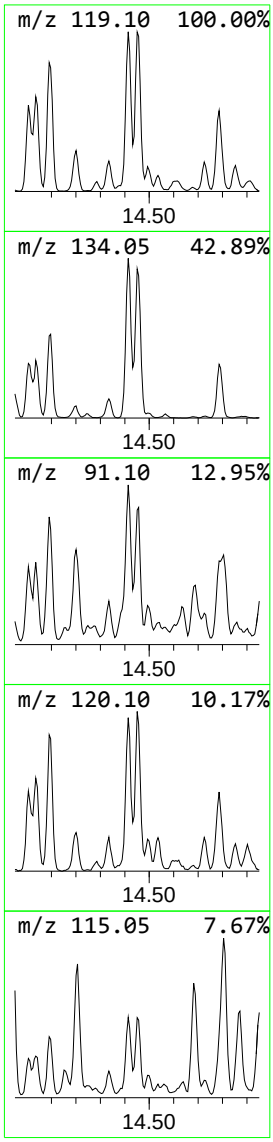
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 30 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.450 | 11.13 ug/L | 234444 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 91 |
| 2 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 91 |
| 3 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 91 |
| 4 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 91 |
| 5 | o-Cymene | 134 | C10H14 | 000527-84-4 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

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

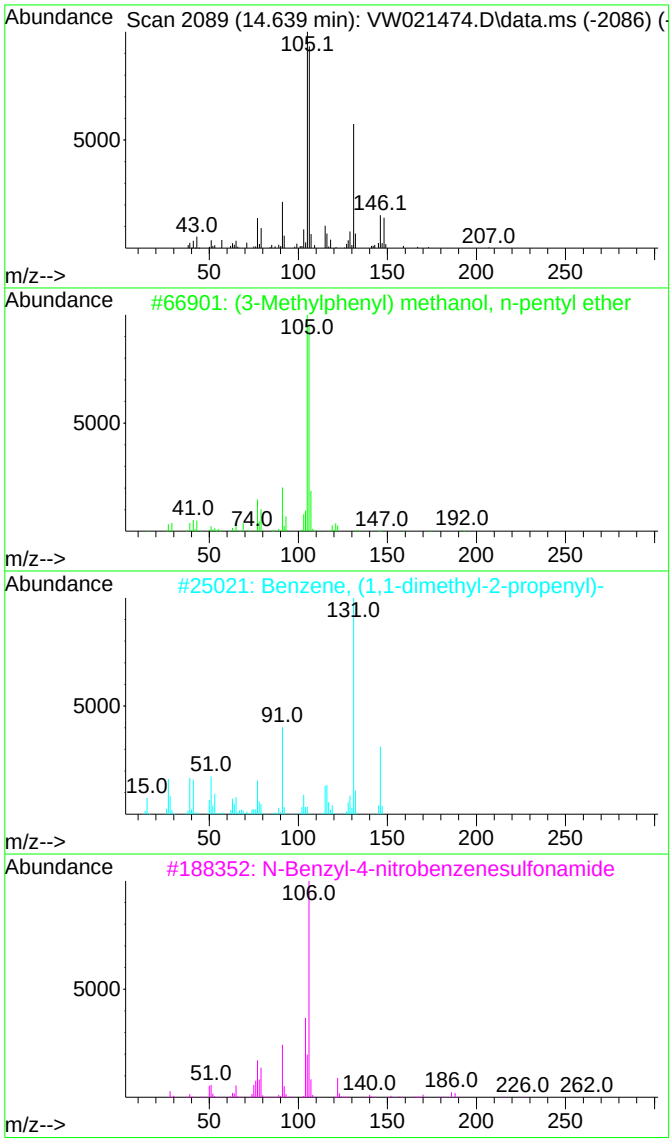
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

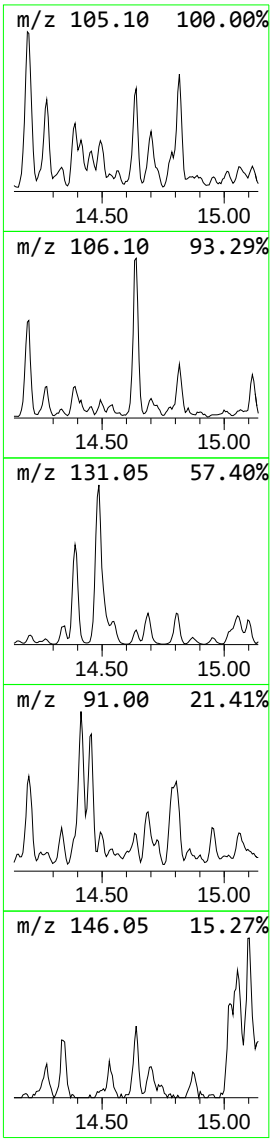
**********

Peak Number 31 unknown-01 Concentration Rank 38

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.639 | 2.48 ug/L | 52213 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (3-Methylphenyl) methanol, n-pen... | 192 | C13H20O | 1000374-44-0 | 43 |
| 2 | Benzene, (1,1-dimethyl-2-propenyl)- | 146 | C11H14 | 018321-36-3 | 38 |
| 3 | N-Benzyl-4-nitrobenzenesulfonamide | 292 | C13H12N2O4S | 052374-25-1 | 35 |
| 4 | 3-Phenyl-4,5-dimethyl-2,1-oxabor... | 202 | C13H19BO | 1000062-26-1 | 30 |
| 5 | 1H-Indene, 2,3-dihydro-1,1-dimet... | 146 | C11H14 | 004912-92-9 | 30 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

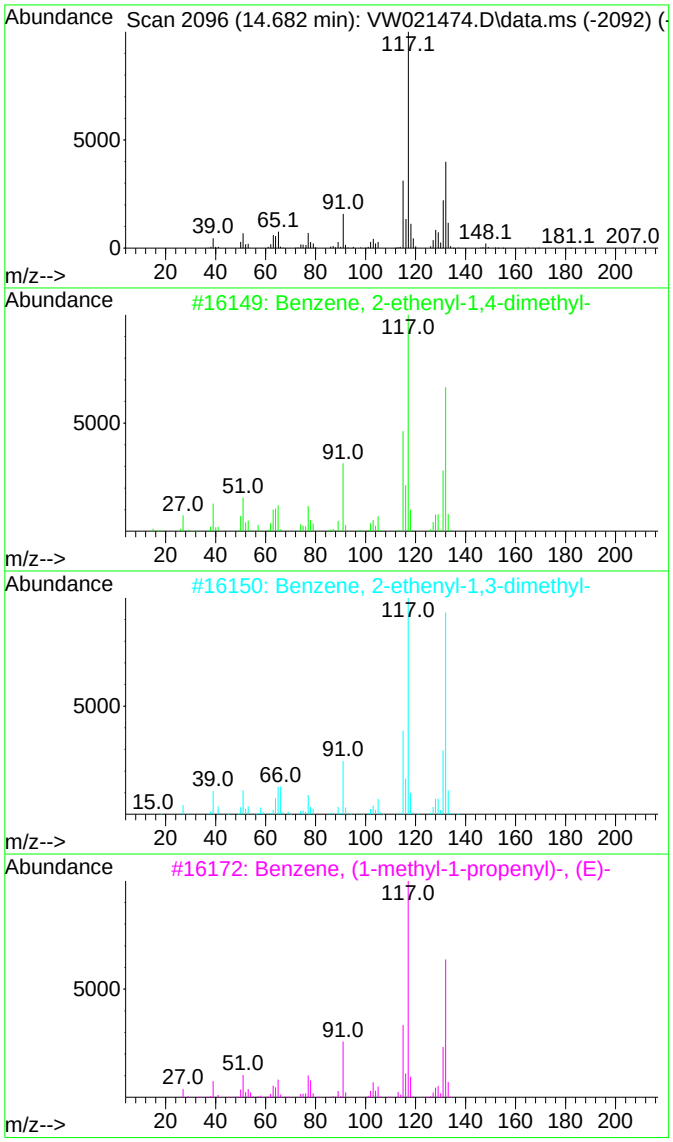
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

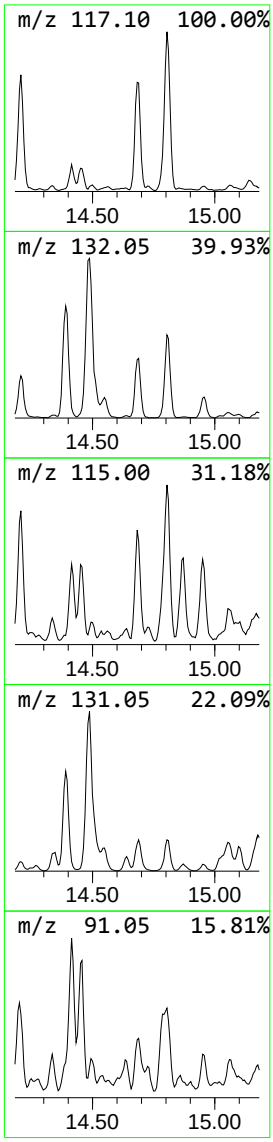
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 32 Benzene, 2-ethenyl-1,3-dime... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.682 | 10.99 ug/L | 231506 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 95 |
| 2 | Benzene, 2-ethenyl-1,3-dimethyl- | 132 | C10H12 | 002039-90-9 | 87 |
| 3 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000768-00-3 | 87 |
| 4 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 87 |
| 5 | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12 | 000874-35-1 | 87 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

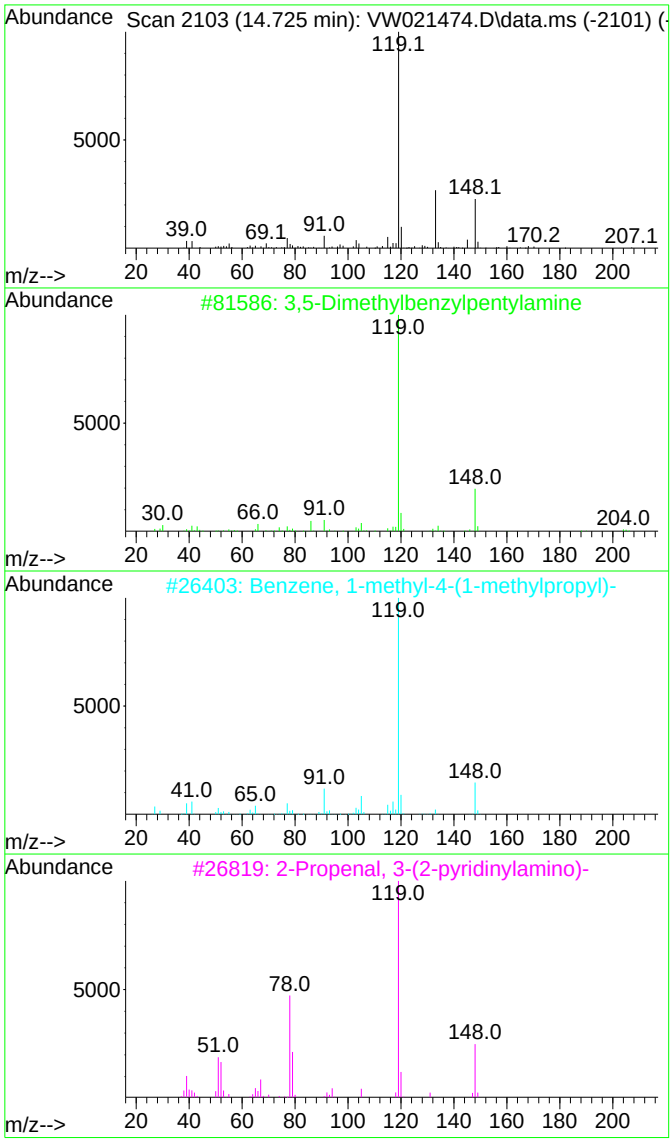
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

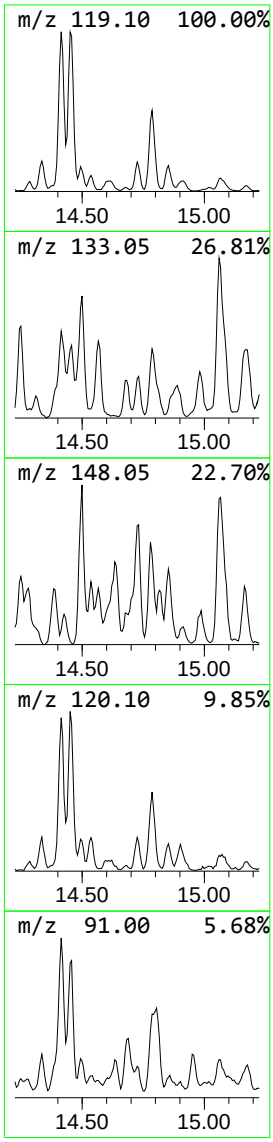
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 33 3,5-Dimethylbenzylpentylamine Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.725 | 3.71 ug/L | 78073 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3,5-Dimethylbenzylpentylamine | 205 | C14H23N | 1000491-60-8 | 64 |
| 2 | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16 | 001595-16-0 | 64 |
| 3 | 2-Propenal, 3-(2-pyridinylamino)- | 148 | C8H8N2O | 068970-82-1 | 59 |
| 4 | Benzene, (1,1-dimethylpropyl)- | 148 | C11H16 | 002049-95-8 | 59 |
| 5 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

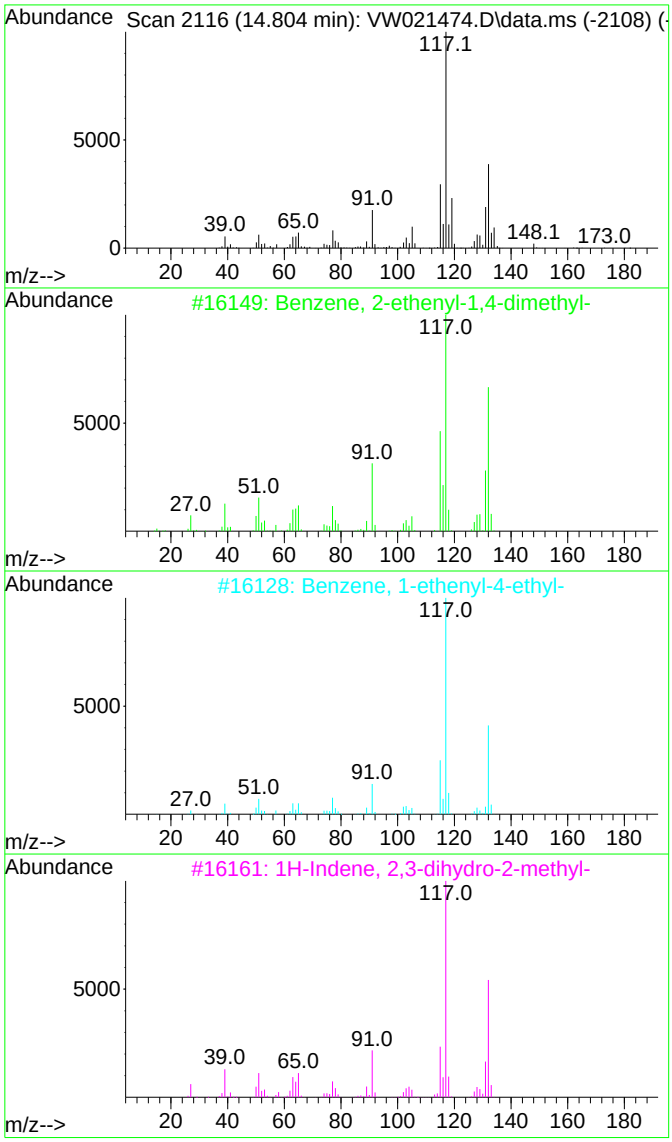
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

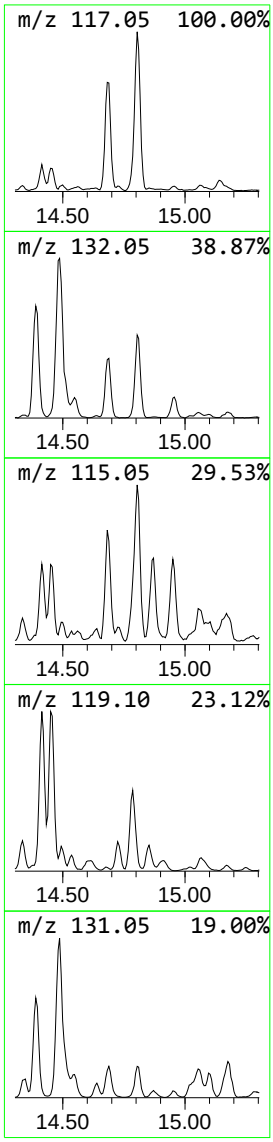
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 34 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.804 | 27.31 ug/L | 575135 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 96 |
| 2 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 90 |
| 3 | 1H-Indene, 2,3-dihydro-2-methyl- | 132 | C10H12 | 000824-63-5 | 87 |
| 4 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 87 |
| 5 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 87 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

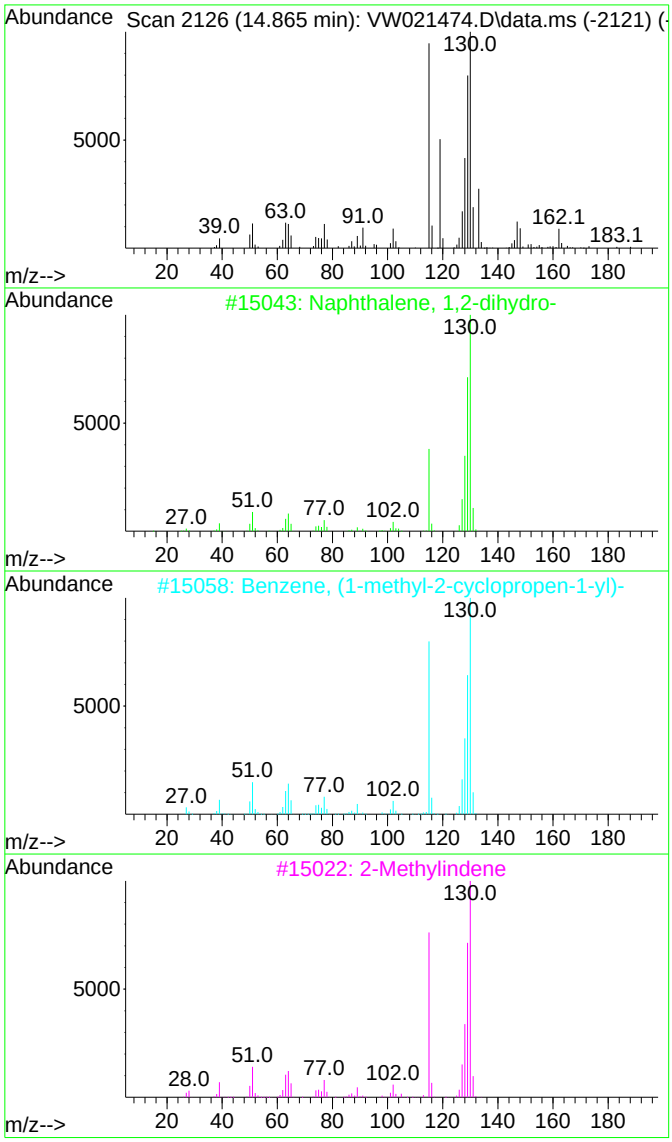
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

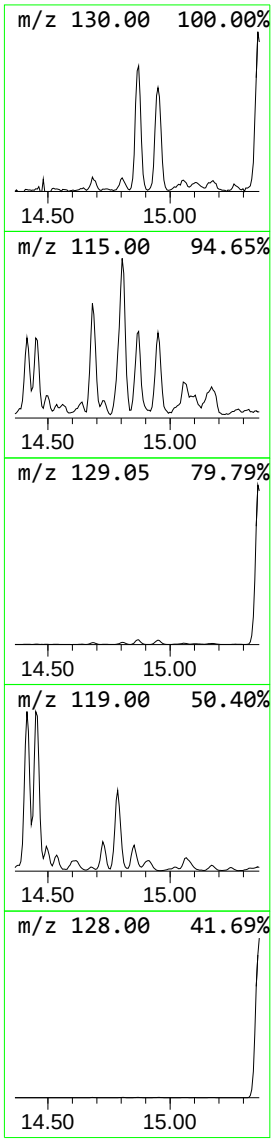
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 35 Naphthalene, 1,2-dihydro- Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.865 | 4.42 ug/L | 92977 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2-dihydro- | 130 | C10H10 | 000447-53-0 | 91 |
| 2 | Benzene, (1-methyl-2-cyclopropen... | 130 | C10H10 | 065051-83-4 | 91 |
| 3 | 2-Methylindene | 130 | C10H10 | 002177-47-1 | 91 |
| 4 | 1H-Indene, 1-methyl- | 130 | C10H10 | 000767-59-9 | 91 |
| 5 | Benzene, 1-butynyl- | 130 | C10H10 | 000622-76-4 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

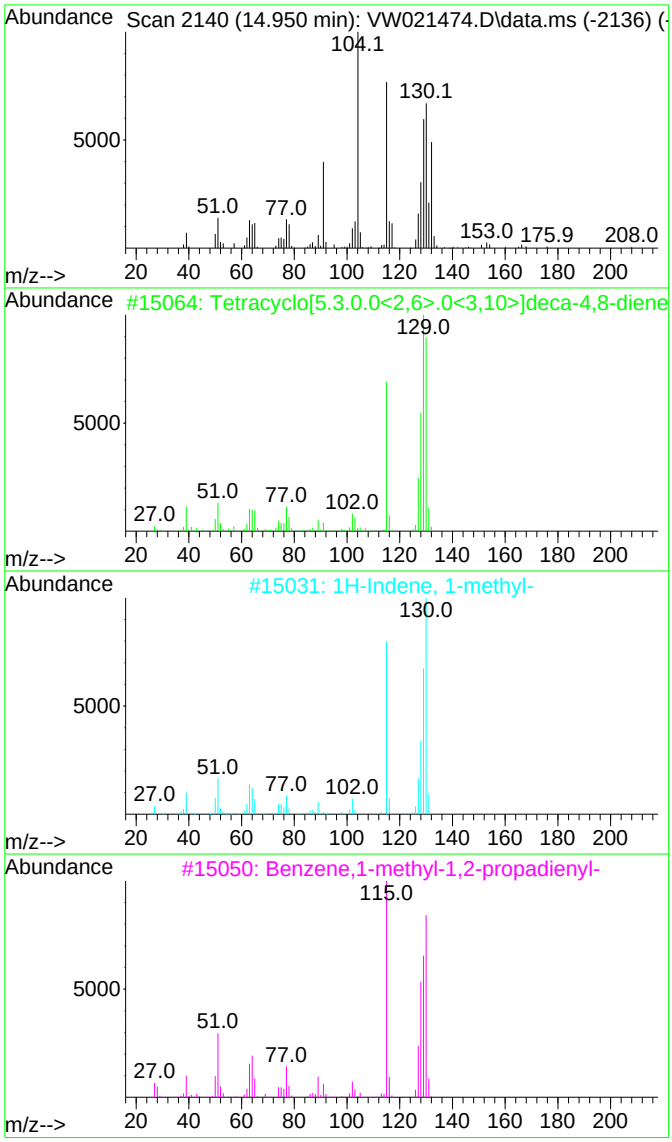
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

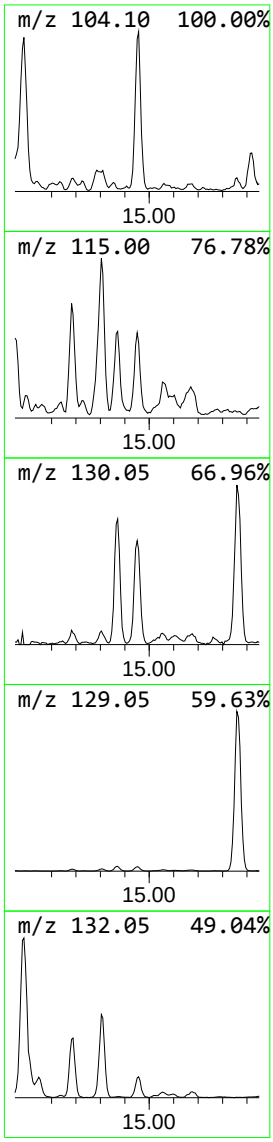
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 36 Tetracyclo[5.3.0.0<2,6>.0<3... Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.950 | 4.98 ug/L | 104786 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetracyclo[5.3.0.0<2,6>.0<3,10>]... | 130 | C10H10 | 034324-40-8 | 90 |
| 2 | 1H-Indene, 1-methyl- | 130 | C10H10 | 000767-59-9 | 89 |
| 3 | Benzene,1-methyl-1,2-propadienyl- | 130 | C10H10 | 022433-39-2 | 64 |
| 4 | Cycloprop[a]indene, 1,1a,6,6a-te... | 130 | C10H10 | 015677-15-3 | 60 |
| 5 | 1H-Indene, 1-methyl- | 130 | C10H10 | 000767-59-9 | 55 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

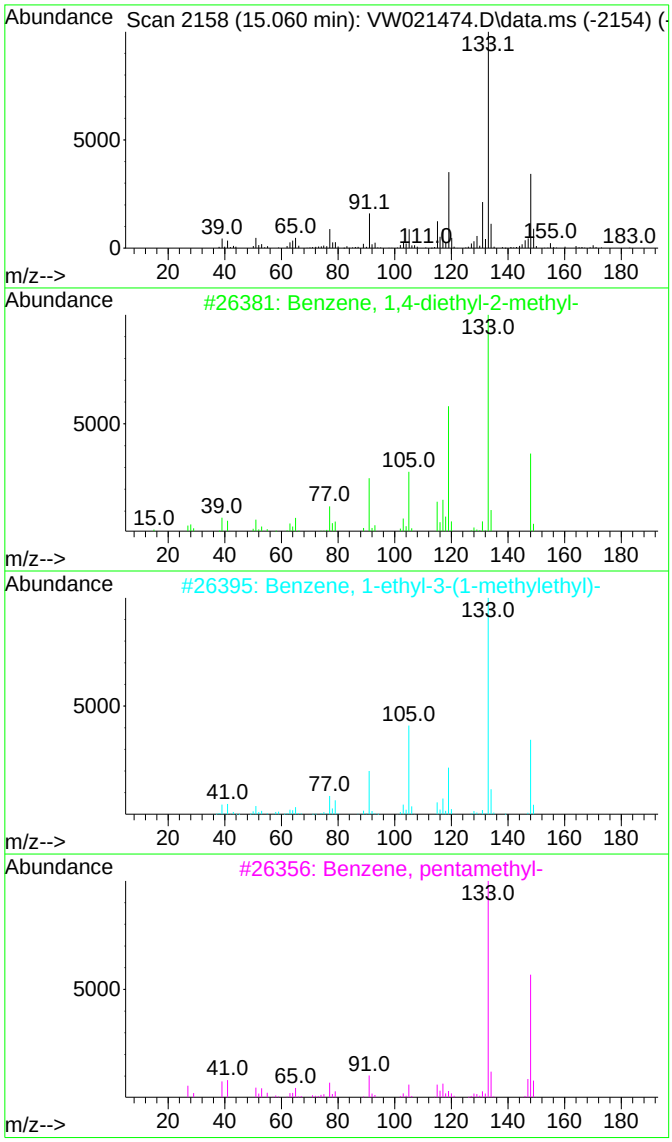
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

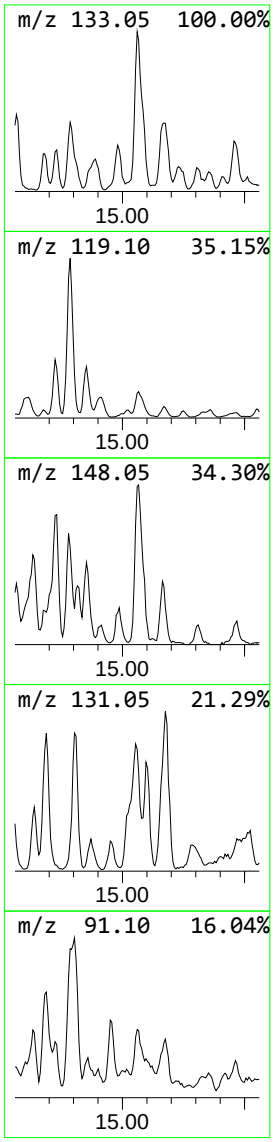
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 37 Benzene, 1,4-diethyl-2-methyl- Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.060 | 7.19 ug/L | 151400 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,4-diethyl-2-methyl- | 148 | C11H16 | 013632-94-5 | 72 |
| 2 | Benzene, 1-ethyl-3-(1-methylethyl)- | 148 | C11H16 | 004920-99-4 | 72 |
| 3 | Benzene, pentamethyl- | 148 | C11H16 | 000700-12-9 | 68 |
| 4 | Benzene, pentamethyl- | 148 | C11H16 | 000700-12-9 | 62 |
| 5 | 2-tert-Butyltoluene | 148 | C11H16 | 001074-92-6 | 58 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

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

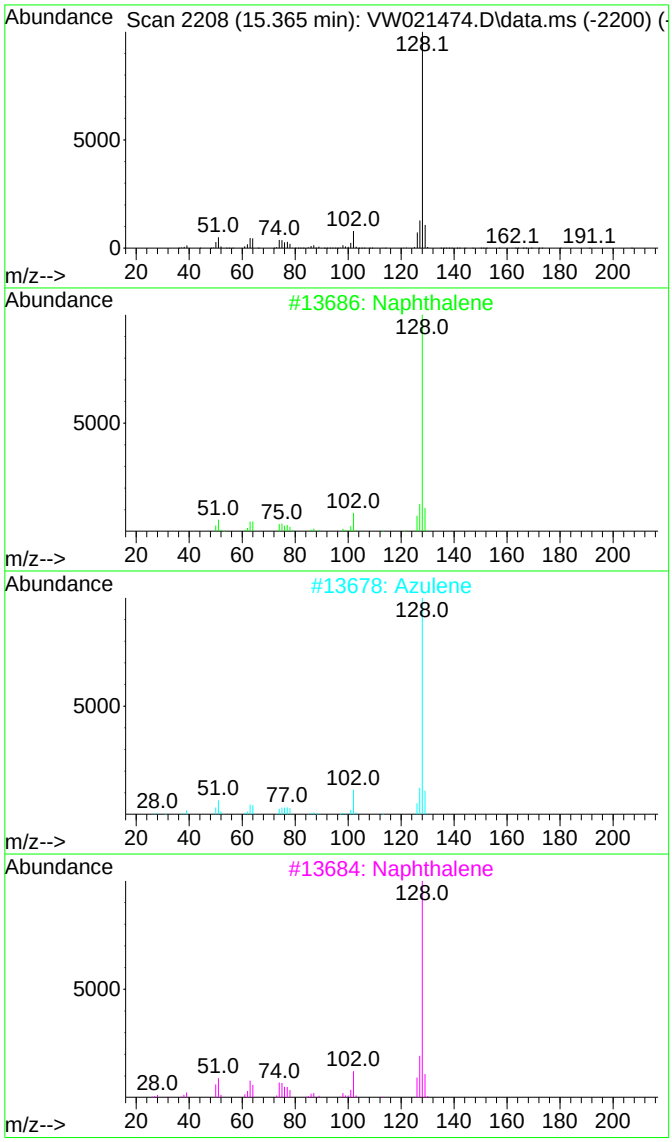
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

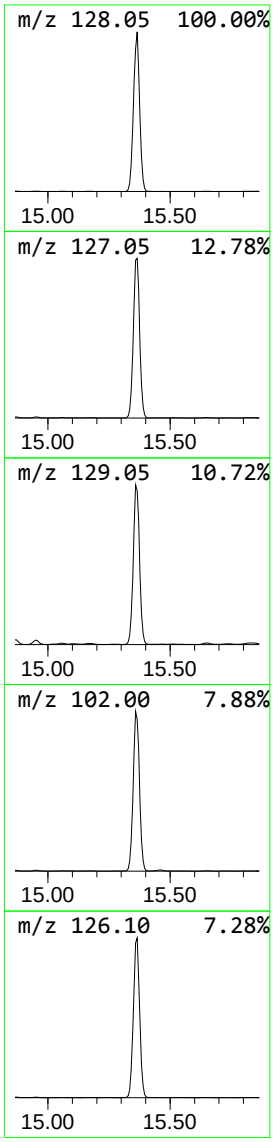
**********

Peak Number 38 Azulene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.365 | 368.13 ug/L | 7752110 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene | 128 | C10H8 | 000091-20-3 | 95 |
| 2 | Azulene | 128 | C10H8 | 000275-51-4 | 94 |
| 3 | Naphthalene | 128 | C10H8 | 000091-20-3 | 94 |
| 4 | Azulene | 128 | C10H8 | 000275-51-4 | 91 |
| 5 | Azulene | 128 | C10H8 | 000275-51-4 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

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

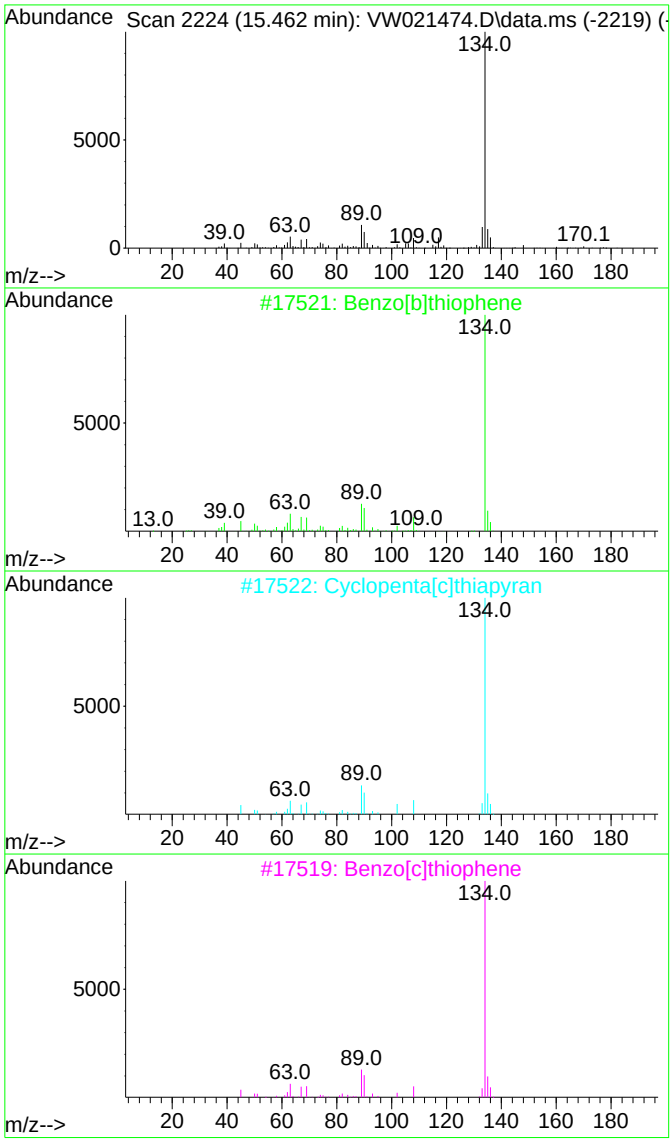
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

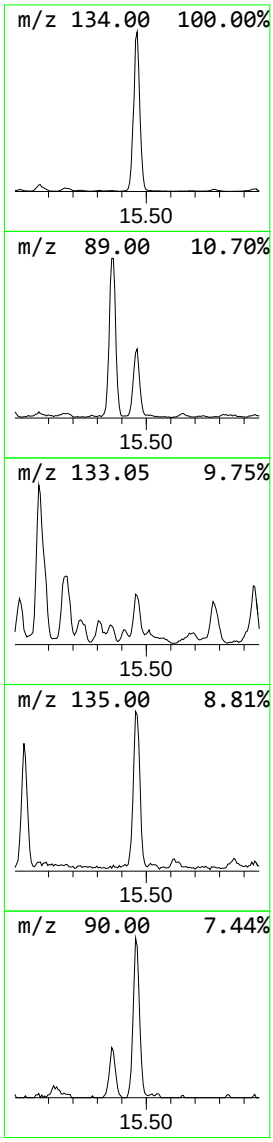
**********

Peak Number 39 Benzo[b]thiophene Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.462 | 10.53 ug/L | 221749 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]thiophene | 134 | C8H6S | 000095-15-8 | 93 |
| 2 | Cyclopenta[c]thiapyran | 134 | C8H6S | 000270-63-3 | 90 |
| 3 | Benzo[c]thiophene | 134 | C8H6S | 000270-82-6 | 87 |
| 4 | Benzo[b]thiophene | 134 | C8H6S | 000095-15-8 | 87 |
| 5 | Benzo[b]thiophene | 134 | C8H6S | 000095-15-8 | 74 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

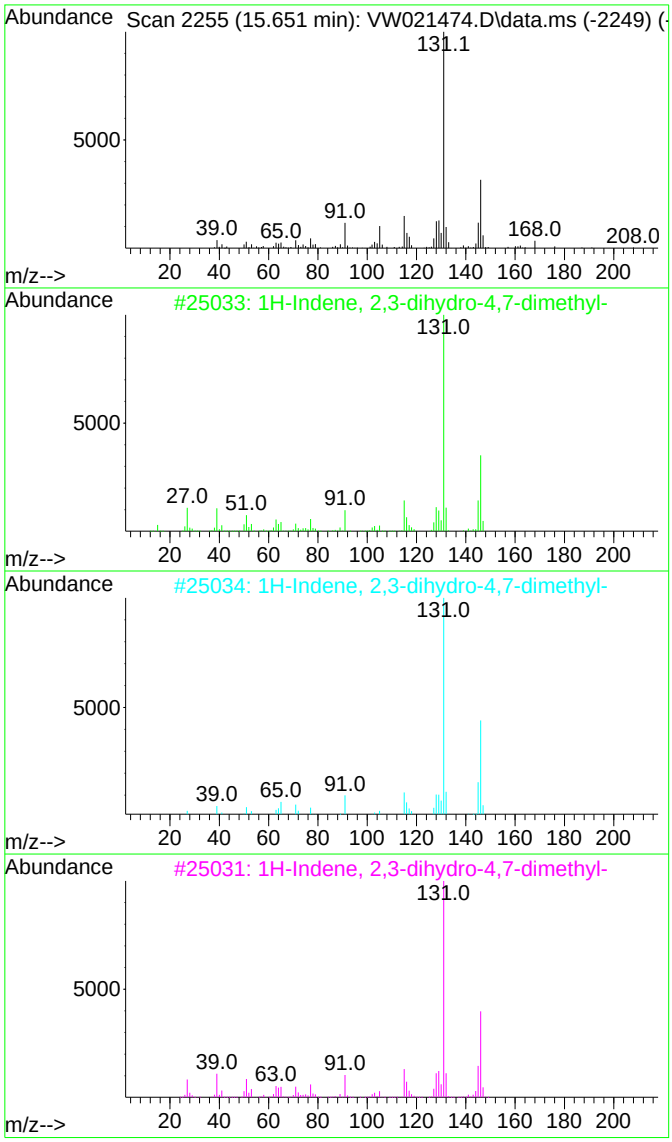
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

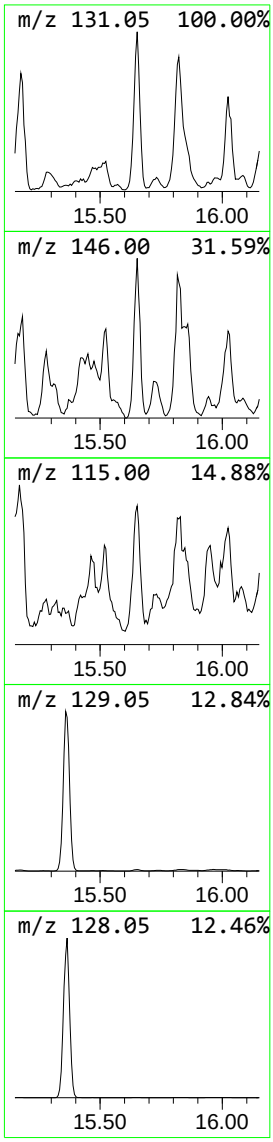
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 40 1H-Indene, 2,3-dihydro-4,7-... Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.651 | 5.47 ug/L | 115273 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 96 |
| 2 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 95 |
| 3 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 94 |
| 4 | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14 | 017057-82-8 | 91 |
| 5 | Benzene, 1-methyl-4-(1-methyl-2-... | 146 | C11H14 | 097664-18-1 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

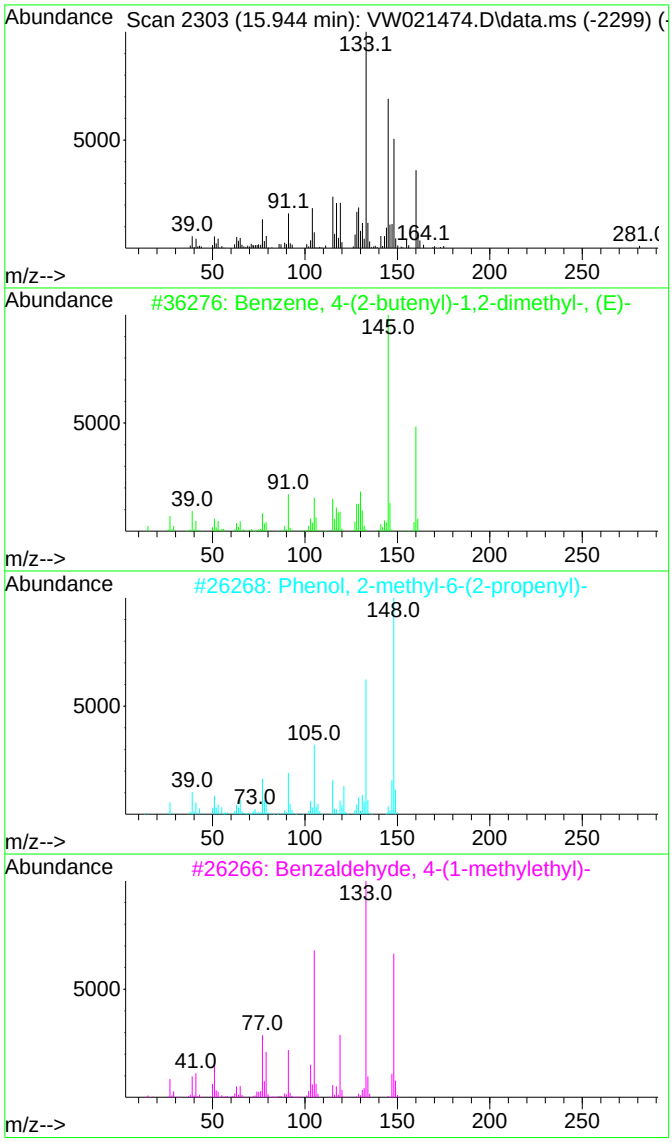
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

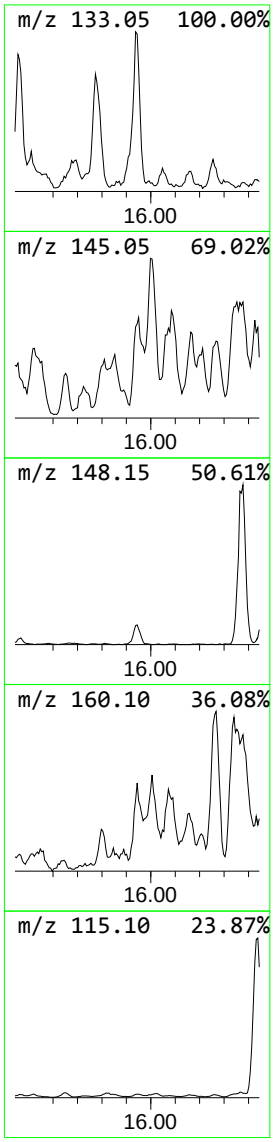
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 41 Benzene, 4-(2-butenyl)-1,2-... Concentration Rank 34

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.944 | 2.79 ug/L | 58775 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 4-(2-butenyl)-1,2-dimet... | 160 | C12H16 | 054340-86-2 | 52 |
| 2 | Phenol, 2-methyl-6-(2-propenyl)- | 148 | C10H12O | 003354-58-3 | 49 |
| 3 | Benzaldehyde, 4-(1-methylethyl)- | 148 | C10H12O | 000122-03-2 | 49 |
| 4 | Benzene, 1,3-diethyl-5-methyl- | 148 | C11H16 | 002050-24-0 | 49 |
| 5 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 021693-54-9 | 46 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

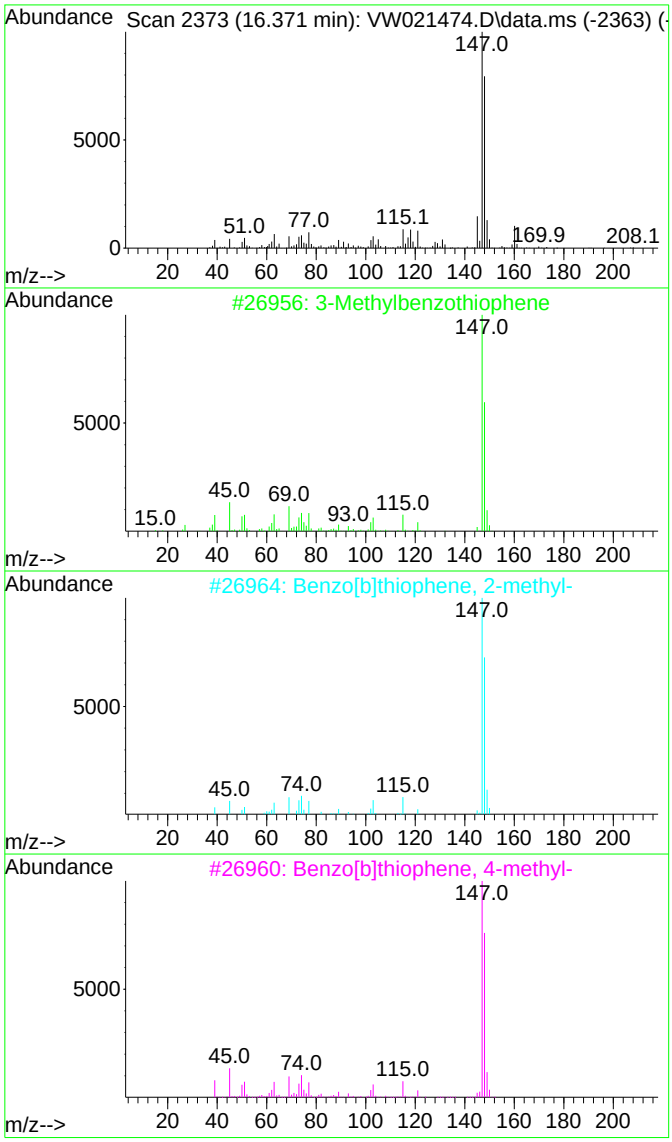
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

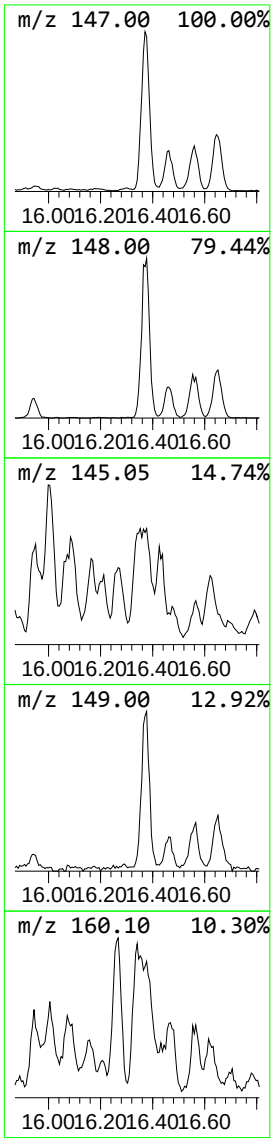
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 42 3-Methylbenzothiophene Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.371 | 14.72 ug/L | 310002 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Methylbenzothiophene | 148 | C9H8S | 001455-18-1 | 87 |
| 2 | Benzo[b]thiophene, 2-methyl- | 148 | C9H8S | 001195-14-8 | 81 |
| 3 | Benzo[b]thiophene, 4-methyl- | 148 | C9H8S | 014315-11-8 | 81 |
| 4 | Benzo[b]thiophene, 5-methyl- | 148 | C9H8S | 014315-14-1 | 81 |
| 5 | Benzo[b]thiophene, 2-methyl- | 148 | C9H8S | 001195-14-8 | 74 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

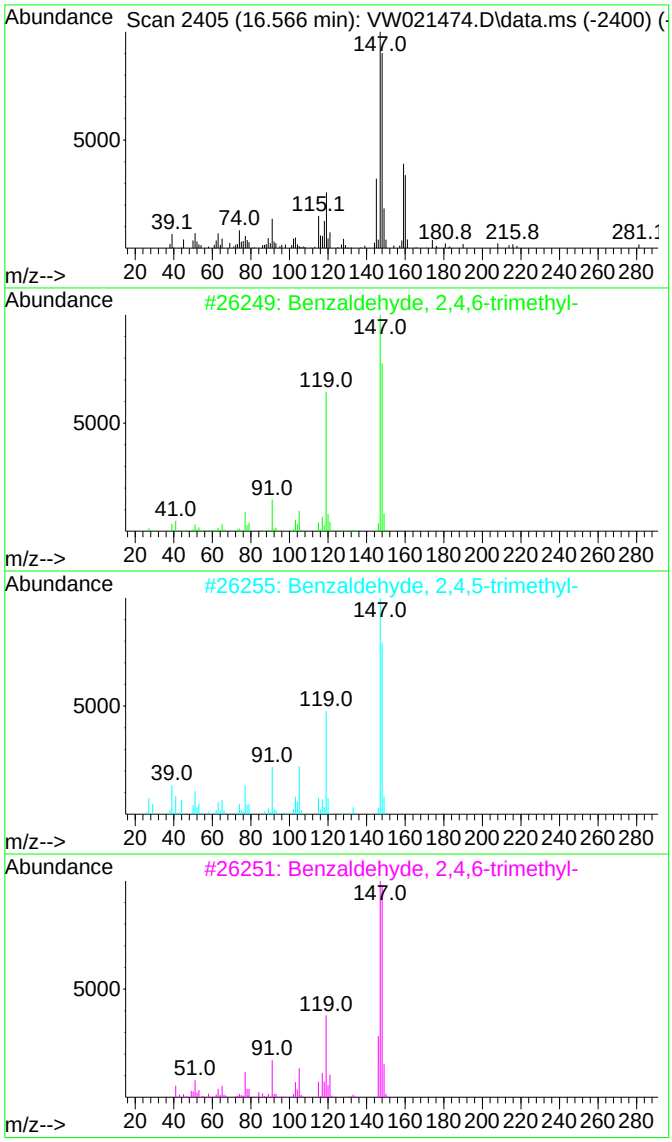
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
Quant Title : SFAM01.0

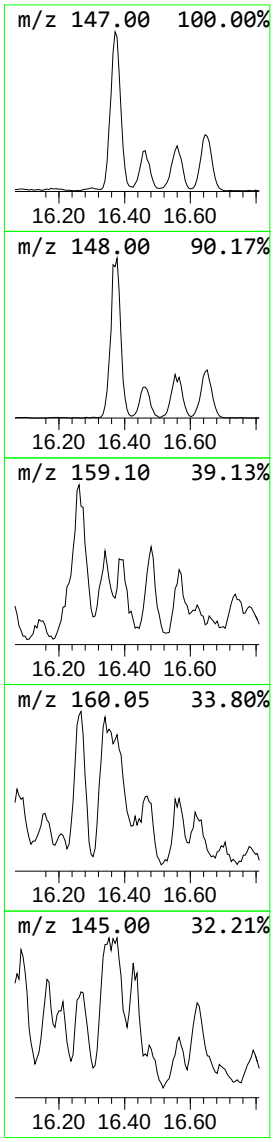
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 44 Benzaldehyde, 2,4,6-trimethyl- Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.566 | 3.14 ug/L | 66138 | 1,4-Dichlorobenzene-d4 | 13.554 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzaldehyde, 2,4,6-trimethyl- | 148 | C10H12O | 000487-68-3 | 64 |
| 2 | Benzaldehyde, 2,4,5-trimethyl- | 148 | C10H12O | 005779-72-6 | 58 |
| 3 | Benzaldehyde, 2,4,6-trimethyl- | 148 | C10H12O | 000487-68-3 | 58 |
| 4 | Benzo[b]thiophene, 6-methyl- | 148 | C9H8S | 016587-47-6 | 53 |
| 5 | Benzaldehyde, 2,4,5-trimethyl- | 148 | C10H12O | 005779-72-6 | 52 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
Data File : VW021474.D
Acq On : 18 Dec 2021 14:18
Operator : SY/VA
Sample : M5154-01
Misc : 6.31g/10.0mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BGL81

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... | 9.896 | 1.4 | ug/L | 21654 | 1 | 8.842 | 386332 | 25.0 |
| Hexane, 1-(hexy... | 10.098 | 1.9 | ug/L | 29935 | 1 | 8.842 | 386332 | 25.0 |
| (DEL) Alkane: S... | 10.500 | 1.5 | ug/L | 30280 | 2 | 11.628 | 521730 | 25.0 |
| (DEL) Alkane: S... | 11.030 | 2.5 | ug/L | 52441 | 2 | 11.628 | 521730 | 25.0 |
| (DEL) Alkane: C... | 11.110 | 1.5 | ug/L | 30830 | 2 | 11.628 | 521730 | 25.0 |
| (DEL) Alkane: C... | 11.177 | 1.4 | ug/L | 29291 | 2 | 11.628 | 521730 | 25.0 |
| (DEL) Alkane: C... | 11.232 | 2.1 | ug/L | 44041 | 2 | 11.628 | 521730 | 25.0 |
| 1-Heptanol, 2,4... | 11.335 | 1.4 | ug/L | 28069 | 2 | 11.628 | 521730 | 25.0 |
| (DEL) Alkane: S... | 11.512 | 2.5 | ug/L | 52170 | 2 | 11.628 | 521730 | 25.0 |
| (DEL) Alkane: C... | 11.914 | 6.7 | ug/L | 140275 | 2 | 11.628 | 521730 | 25.0 |
| (DEL) Alkane: S... | 12.250 | 5.4 | ug/L | 112836 | 2 | 11.628 | 521730 | 25.0 |
| (DEL) Alkane: C... | 12.305 | 4.0 | ug/L | 83070 | 2 | 11.628 | 521730 | 25.0 |
| (DEL) Alkane: C... | 12.384 | 13.6 | ug/L | 283151 | 2 | 11.628 | 521730 | 25.0 |
| Cyclopentene, 1... | 12.560 | 2.5 | ug/L | 52799 | 2 | 11.628 | 521730 | 25.0 |
| Benzene, propyl- | 12.798 | 21.8 | ug/L | 459846 | 3 | 13.554 | 526455 | 25.0 |
| Benzene, 1-ethy... | 12.865 | 48.5 | ug/L | 1021700 | 3 | 13.554 | 526455 | 25.0 |
| Benzene, 1-ethy... | 13.103 | 29.5 | ug/L | 621984 | 3 | 13.554 | 526455 | 25.0 |
| (DEL) Alkane: S... | 13.164 | 6.3 | ug/L | 131674 | 3 | 13.554 | 526455 | 25.0 |
| Indane | 13.755 | 175.8 | ug/L | 3701740 | 3 | 13.554 | 526455 | 25.0 |
| 1-Propyne, 3-ph... | 13.938 | 10.5 | ug/L | 220506 | 3 | 13.554 | 526455 | 25.0 |
| Benzene, 4-ethy... | 14.005 | 9.9 | ug/L | 209529 | 3 | 13.554 | 526455 | 25.0 |
| Benzene, 1-meth... | 14.036 | 8.9 | ug/L | 187964 | 3 | 13.554 | 526455 | 25.0 |
| Benzene, 1-meth... | 14.201 | 13.9 | ug/L | 293619 | 3 | 13.554 | 526455 | 25.0 |
| Adamantane | 14.255 | 5.4 | ug/L | 112778 | 3 | 13.554 | 526455 | 25.0 |
| o-Cymene | 14.335 | 5.1 | ug/L | 107767 | 3 | 13.554 | 526455 | 25.0 |
| Benzene, 1,2,3,... | 14.414 | 38.1 | ug/L | 801504 | 3 | 13.554 | 526455 | 25.0 |
| Benzene, 1-ethy... | 14.450 | 11.1 | ug/L | 234444 | 3 | 13.554 | 526455 | 25.0 |
| unknown-01 | 14.639 | 2.5 | ug/L | 52213 | 3 | 13.554 | 526455 | 25.0 |
| Benzene, 2-ethe... | 14.682 | 11.0 | ug/L | 231506 | 3 | 13.554 | 526455 | 25.0 |
| 3,5-Dimethylben... | 14.725 | 3.7 | ug/L | 78073 | 3 | 13.554 | 526455 | 25.0 |
| Benzene, 2-ethe... | 14.804 | 27.3 | ug/L | 575135 | 3 | 13.554 | 526455 | 25.0 |
| Naphthalene, 1,... | 14.865 | 4.4 | ug/L | 92977 | 3 | 13.554 | 526455 | 25.0 |
| Tetracyclo[5.3.... | 14.950 | 5.0 | ug/L | 104786 | 3 | 13.554 | 526455 | 25.0 |
| Benzene, 1,4-di... | 15.060 | 7.2 | ug/L | 151400 | 3 | 13.554 | 526455 | 25.0 |
| Azulene | 15.365 | 368.1 | ug/L | 7752110 | 3 | 13.554 | 526455 | 25.0 |
| Benzo[b]thiophene | 15.462 | 10.5 | ug/L | 221749 | 3 | 13.554 | 526455 | 25.0 |
| 1H-Indene, 2,3-... | 15.651 | 5.5 | ug/L | 115273 | 3 | 13.554 | 526455 | 25.0 |
| Benzene, 4-(2-b... | 15.944 | 2.8 | ug/L | 58775 | 3 | 13.554 | 526455 | 25.0 |
| 3-Methylbenzoth... | 16.371 | 14.7 | ug/L | 310002 | 3 | 13.554 | 526455 | 25.0 |
| Benzaldehyde, 2... | 16.566 | 3.1 | ug/L | 66138 | 3 | 13.554 | 526455 | 25.0 |