LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

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\SOM2WLM041020S.M
Title : VOC Analysis

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.989 | 11 | 14 | 21 | rVB2 | 20535 | 36077 | 0.18% | 0.031% |
| 2 | 2.227 | 45 | 53 | 54 | rBV7 | 32273 | 71066 | 0.35% | 0.062% |
| 3 | 2.349 | 68 | 73 | 84 | rVB | 313968 | 543577 | 2.66% | 0.470% |
| 4 | 2.892 | 156 | 162 | 172 | rVB | 159473 | 373549 | 1.83% | 0.323% |
| 5 | 4.019 | 336 | 347 | 359 | rBV | 488733 | 1522110 | 7.45% | 1.317% |
| 6 | 4.385 | 399 | 407 | 408 | rBV3 | 11574 | 24460 | 0.12% | 0.021% |
| 7 | 4.928 | 484 | 496 | 501 | rBV5 | 20509 | 66834 | 0.33% | 0.058% |
| 8 | 6.903 | 810 | 820 | 829 | rBV4 | 24368 | 75916 | 0.37% | 0.066% |
| 9 | 7.074 | 840 | 848 | 853 | rBV | 80228 | 214716 | 1.05% | 0.186% |
| 10 | 7.647 | 931 | 942 | 953 | rBV | 622563 | 1526263 | 7.47% | 1.321% |
| 11 | 7.927 | 980 | 988 | 989 | rBV3 | 15792 | 28235 | 0.14% | 0.024% |
| 12 | 8.025 | 1000 | 1004 | 1013 | rVB4 | 13487 | 34182 | 0.17% | 0.030% |
| 13 | 8.153 | 1018 | 1025 | 1031 | rBV2 | 38783 | 85663 | 0.42% | 0.074% |
| 14 | 8.275 | 1032 | 1045 | 1061 | rVB2 | 1348852 | 3815891 | 18.67% | 3.303% |
| 15 | 8.427 | 1062 | 1070 | 1077 | rVV3 | 37722 | 89618 | 0.44% | 0.078% |
| 16 | 8.506 | 1077 | 1083 | 1088 | rVV2 | 30513 | 62928 | 0.31% | 0.054% |
| 17 | 8.573 | 1088 | 1094 | 1100 | rVB2 | 33641 | 71695 | 0.35% | 0.062% |
| 18 | 8.695 | 1108 | 1114 | 1120 | rVB7 | 8948 | 20007 | 0.10% | 0.017% |
| 19 | 8.842 | 1129 | 1138 | 1150 | rBV | 1436387 | 2849711 | 13.94% | 2.466% |
| 20 | 9.275 | 1200 | 1209 | 1215 | rBV | 860724 | 1886909 | 9.23% | 1.633% |
| 21 | 9.329 | 1215 | 1218 | 1224 | rVV | 236785 | 470076 | 2.30% | 0.407% |
| 22 | 9.378 | 1224 | 1226 | 1234 | rVB3 | 45031 | 80402 | 0.39% | 0.070% |
| 23 | 9.512 | 1242 | 1248 | 1253 | rVV2 | 25277 | 45955 | 0.22% | 0.040% |
| 24 | 9.604 | 1253 | 1263 | 1270 | rVB2 | 92873 | 210441 | 1.03% | 0.182% |
| 25 | 9.750 | 1280 | 1287 | 1296 | rVB | 133562 | 262414 | 1.28% | 0.227% |
| 26 | 9.896 | 1306 | 1311 | 1315 | rBV3 | 57983 | 108347 | 0.53% | 0.094% |
| 27 | 9.957 | 1315 | 1321 | 1324 | rVV | 178395 | 326787 | 1.60% | 0.283% |
| 28 | 10.031 | 1328 | 1333 | 1338 | rVV | 471009 | 857589 | 4.20% | 0.742% |
| 29 | 10.091 | 1338 | 1343 | 1356 | rVB3 | 230859 | 578986 | 2.83% | 0.501% |
| 30 | 10.207 | 1356 | 1362 | 1365 | rBV3 | 39962 | 74851 | 0.37% | 0.065% |
| 31 | 10.323 | 1373 | 1381 | 1396 | rBV | 2501263 | 4961843 | 24.28% | 4.294% |
| 32 | 10.445 | 1396 | 1401 | 1403 | rBV3 | 41714 | 65620 | 0.32% | 0.057% |
| 33 | 10.494 | 1403 | 1409 | 1416 | rVB3 | 257378 | 628824 | 3.08% | 0.544% |
| 34 | 10.573 | 1416 | 1422 | 1428 | rBV | 303553 | 569725 | 2.79% | 0.493% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

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\SOM2WLM041020S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 10.665 | 1431 | 1437 | 1447 | rVB2 | 603278 | 1098353 | 5.37% | 0.951% |
| 36 | 10.756 | 1447 | 1452 | 1458 | rBV | 306491 | 553010 | 2.71% | 0.479% |
| 37 | 10.921 | 1472 | 1479 | 1486 | rBV | 329463 | 573919 | 2.81% | 0.497% |
| 38 | 11.061 | 1498 | 1502 | 1506 | rBV | 93881 | 140658 | 0.69% | 0.122% |
| 39 | 11.110 | 1506 | 1510 | 1512 | rBV3 | 91862 | 147440 | 0.72% | 0.128% |
| 40 | 11.146 | 1512 | 1516 | 1517 | rVV | 173271 | 215954 | 1.06% | 0.187% |
| 41 | 11.177 | 1517 | 1521 | 1525 | rVB | 488610 | 744369 | 3.64% | 0.644% |
| 42 | 11.232 | 1525 | 1530 | 1535 | rVB | 612949 | 1019631 | 4.99% | 0.882% |
| 43 | 11.280 | 1535 | 1538 | 1543 | rVB | 146897 | 200121 | 0.98% | 0.173% |
| 44 | 11.329 | 1543 | 1546 | 1554 | rVB3 | 90218 | 145415 | 0.71% | 0.126% |
| 45 | 11.433 | 1556 | 1563 | 1572 | rVB | 438566 | 825969 | 4.04% | 0.715% |
| 46 | 11.518 | 1572 | 1577 | 1580 | rBV4 | 20380 | 43253 | 0.21% | 0.037% |
| 47 | 11.555 | 1580 | 1583 | 1589 | rBV4 | 25293 | 35987 | 0.18% | 0.031% |
| 48 | 11.628 | 1589 | 1595 | 1604 | rBV | 1847599 | 3121934 | 15.27% | 2.702% |
| 49 | 11.725 | 1604 | 1611 | 1614 | rBV2 | 383395 | 701710 | 3.43% | 0.607% |
| 50 | 11.762 | 1614 | 1617 | 1621 | rVB | 277859 | 388639 | 1.90% | 0.336% |
| 51 | 11.829 | 1621 | 1628 | 1634 | rBV | 12266078 | 20439465 | 100.00% | 17.690% |
| 52 | 11.969 | 1647 | 1651 | 1655 | rBV5 | 39390 | 62879 | 0.31% | 0.054% |
| 53 | 12.036 | 1656 | 1662 | 1671 | rVB | 369793 | 745149 | 3.65% | 0.645% |
| 54 | 12.164 | 1671 | 1683 | 1695 | rBV2 | 3761759 | 9003494 | 44.05% | 7.792% |
| 55 | 12.298 | 1701 | 1705 | 1707 | rBV | 457821 | 691977 | 3.39% | 0.599% |
| 56 | 12.335 | 1707 | 1711 | 1717 | rVV2 | 1223329 | 2525459 | 12.36% | 2.186% |
| 57 | 12.414 | 1721 | 1724 | 1728 | rVV2 | 484768 | 879443 | 4.30% | 0.761% |
| 58 | 12.463 | 1728 | 1732 | 1741 | rVV3 | 511699 | 1197689 | 5.86% | 1.037% |
| 59 | 12.561 | 1742 | 1748 | 1752 | rVB4 | 299282 | 738004 | 3.61% | 0.639% |
| 60 | 12.615 | 1752 | 1757 | 1760 | rBV3 | 132205 | 231227 | 1.13% | 0.200% |
| 61 | 12.646 | 1760 | 1762 | 1765 | rBV | 64438 | 62534 | 0.31% | 0.054% |
| 62 | 12.695 | 1765 | 1770 | 1776 | rBV2 | 1035312 | 1814518 | 8.88% | 1.570% |
| 63 | 12.792 | 1781 | 1786 | 1792 | rVB2 | 589066 | 1233209 | 6.03% | 1.067% |
| 64 | 12.865 | 1792 | 1798 | 1803 | rBV | 1333901 | 2098033 | 10.26% | 1.816% |
| 65 | 12.939 | 1803 | 1810 | 1816 | rVB2 | 1742365 | 3205268 | 15.68% | 2.774% |
| 66 | 13.103 | 1829 | 1837 | 1843 | rBV | 414235 | 860680 | 4.21% | 0.745% |
| 67 | 13.176 | 1843 | 1849 | 1856 | rVV5 | 530080 | 1317507 | 6.45% | 1.140% |
| 68 | 13.249 | 1856 | 1861 | 1871 | rVB | 2977261 | 4685958 | 22.93% | 4.056% |
| 69 | 13.377 | 1876 | 1882 | 1887 | rBV3 | 337165 | 737222 | 3.61% | 0.638% |
| 70 | 13.445 | 1887 | 1893 | 1897 | rBV3 | 595323 | 1015403 | 4.97% | 0.879% |
| 71 | 13.493 | 1897 | 1901 | 1906 | rVB | 734451 | 1122531 | 5.49% | 0.972% |

LSC Area Percent Report

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Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

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\SOM2WLM041020S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 13.554 | 1906 | 1911 | 1914 | rBV | 1605852 | 2859530 | 13.99% | 2.475% |
| 73 | 13.652 | 1924 | 1927 | 1931 | rVB | 254147 | 343642 | 1.68% | 0.297% |
| 74 | 13.719 | 1931 | 1938 | 1940 | rBV | 874773 | 1420423 | 6.95% | 1.229% |
| 75 | 13.749 | 1940 | 1943 | 1946 | rVV2 | 1151480 | 1828163 | 8.94% | 1.582% |
| 76 | 13.786 | 1946 | 1949 | 1955 | rVV2 | 1589993 | 2871036 | 14.05% | 2.485% |
| 77 | 13.853 | 1956 | 1960 | 1969 | rVB2 | 1342957 | 2676946 | 13.10% | 2.317% |
| 78 | 13.951 | 1971 | 1976 | 1980 | rVV | 575485 | 874255 | 4.28% | 0.757% |
| 79 | 14.005 | 1980 | 1985 | 1988 | rVV | 761476 | 1279534 | 6.26% | 1.107% |
| 80 | 14.042 | 1988 | 1991 | 1995 | rVV | 897955 | 1344449 | 6.58% | 1.164% |
| 81 | 14.097 | 1995 | 2000 | 2005 | rVV | 1450792 | 2184725 | 10.69% | 1.891% |
| 82 | 14.158 | 2007 | 2010 | 2012 | rVV | 191710 | 279079 | 1.37% | 0.242% |
| 83 | 14.201 | 2012 | 2017 | 2022 | rVV3 | 1310867 | 2191028 | 10.72% | 1.896% |
| 84 | 14.255 | 2022 | 2026 | 2034 | rVB4 | 338264 | 795439 | 3.89% | 0.688% |
| 85 | 14.341 | 2034 | 2040 | 2044 | rBV2 | 685320 | 1162456 | 5.69% | 1.006% |
| 86 | 14.414 | 2049 | 2052 | 2056 | rVV | 730472 | 1176595 | 5.76% | 1.018% |
| 87 | 14.457 | 2056 | 2059 | 2063 | rVB | 991388 | 1318274 | 6.45% | 1.141% |
| 88 | 14.499 | 2063 | 2066 | 2069 | rBV | 250463 | 281485 | 1.38% | 0.244% |
| 89 | 14.542 | 2069 | 2073 | 2075 | rBV2 | 131288 | 179720 | 0.88% | 0.156% |
| 90 | 14.688 | 2093 | 2097 | 2100 | rBV5 | 137436 | 226525 | 1.11% | 0.196% |
| 91 | 14.725 | 2101 | 2103 | 2108 | rVV2 | 142433 | 212368 | 1.04% | 0.184% |
| 92 | 14.792 | 2108 | 2114 | 2122 | rVV2 | 784549 | 1539522 | 7.53% | 1.332% |
| 93 | 14.859 | 2122 | 2125 | 2131 | rVB2 | 73691 | 118006 | 0.58% | 0.102% |
| 94 | 14.956 | 2137 | 2141 | 2149 | rVB2 | 131275 | 207776 | 1.02% | 0.180% |
| 95 | 15.066 | 2154 | 2159 | 2162 | rBV3 | 119482 | 209768 | 1.03% | 0.182% |
| 96 | 15.170 | 2172 | 2176 | 2184 | rVB4 | 96726 | 209882 | 1.03% | 0.182% |
| 97 | 15.365 | 2203 | 2208 | 2214 | rVB | 185497 | 311425 | 1.52% | 0.270% |
| 98 | 15.438 | 2216 | 2220 | 2224 | rVB2 | 30782 | 46533 | 0.23% | 0.040% |
| 99 | 16.444 | 2379 | 2385 | 2391 | rBV2 | 16433 | 36212 | 0.18% | 0.031% |
| 100 | 16.596 | 2404 | 2410 | 2414 | rBV | 42970 | 94175 | 0.46% | 0.082% |

Sum of corrected areas: 115544249

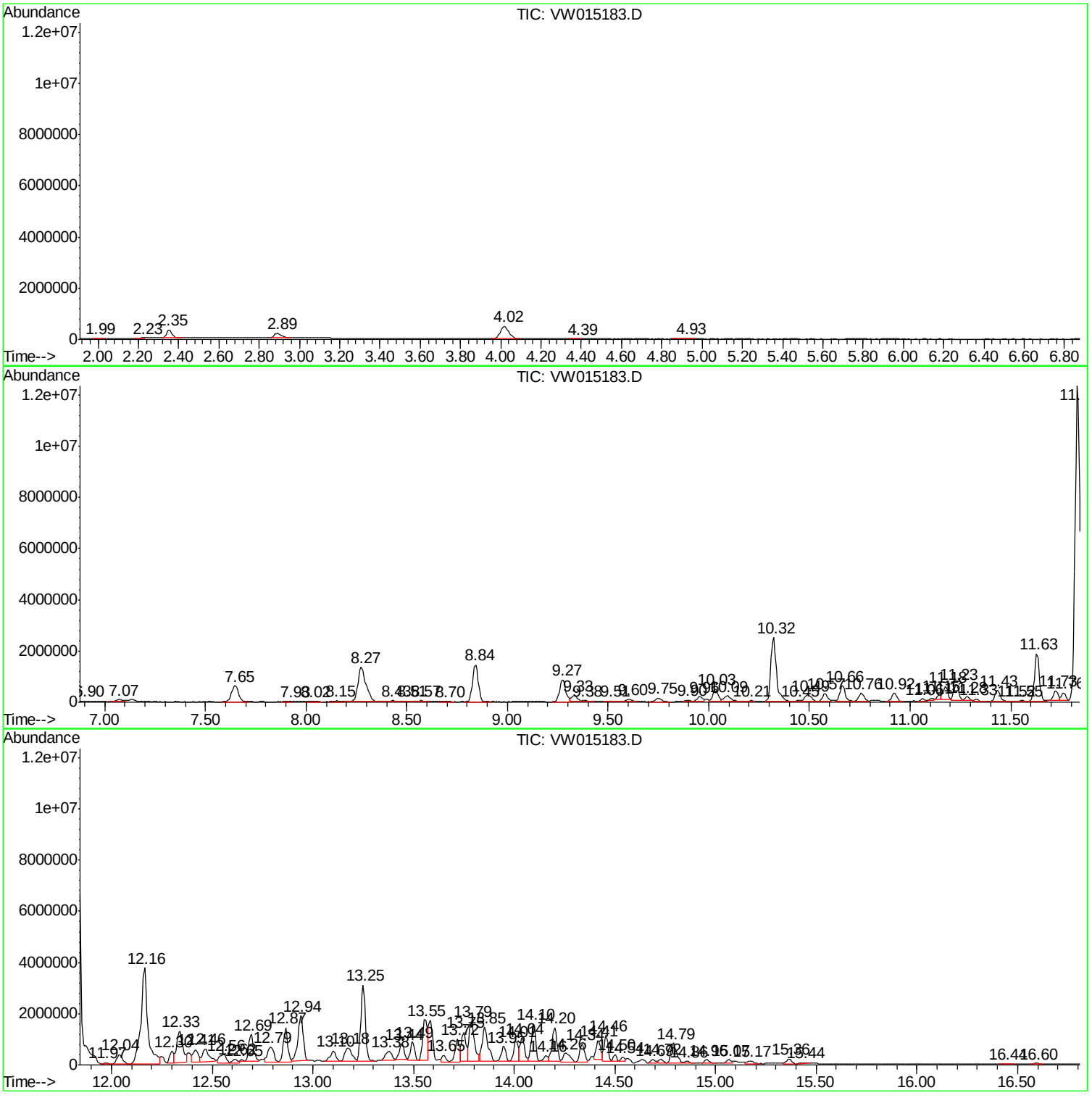
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

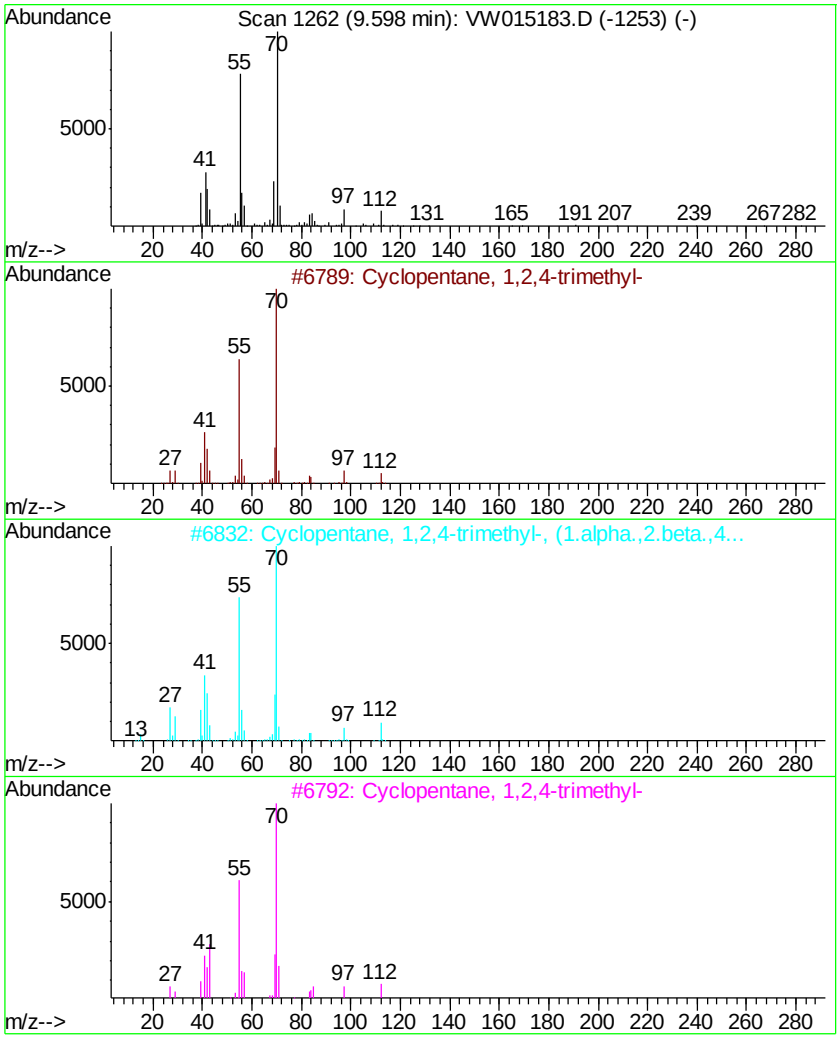
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

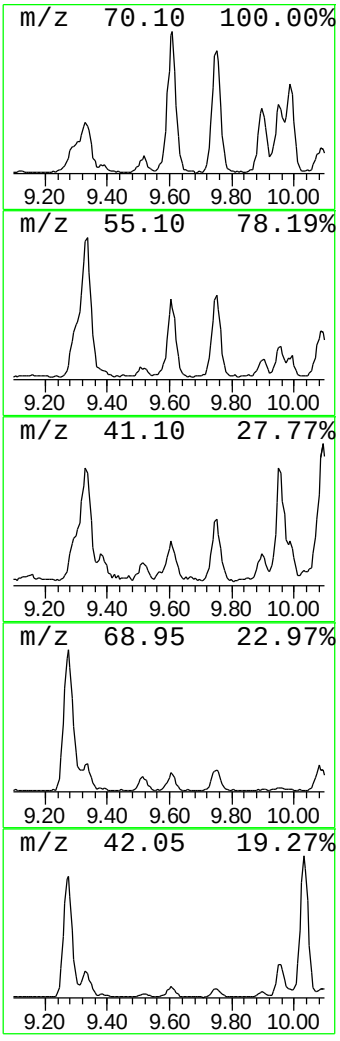
**********

Peak Number 1 (DEL) Alkane: Cyclic9.60 Concentration Rank 44

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.60 | 1.85 ug/L | 210441 | 1,4-Difluorobenzene | 8.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1,2,4-trimethyl- | 112 | C8H16 | 002815-58-9 | 91 |
| 2 | Cyclopentane, 1,2,4-trimethyl-, ... | 112 | C8H16 | 016883-48-0 | 91 |
| 3 | Cyclopentane, 1,2,4-trimethyl- | 112 | C8H16 | 002815-58-9 | 90 |
| 4 | Cyclopentane, 1,2,4-trimethyl-, ... | 112 | C8H16 | 004850-28-6 | 86 |
| 5 | Hexane, 2-methyl-4-methylene- | 112 | C8H16 | 003404-80-6 | 78 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

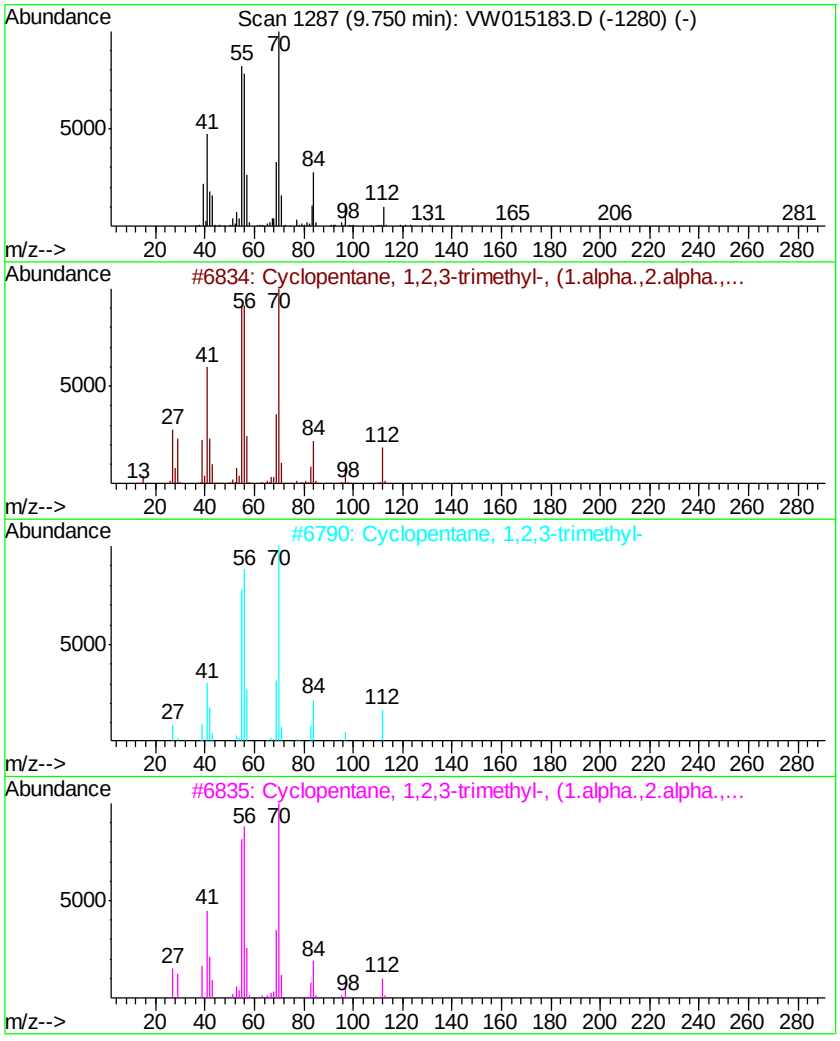
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

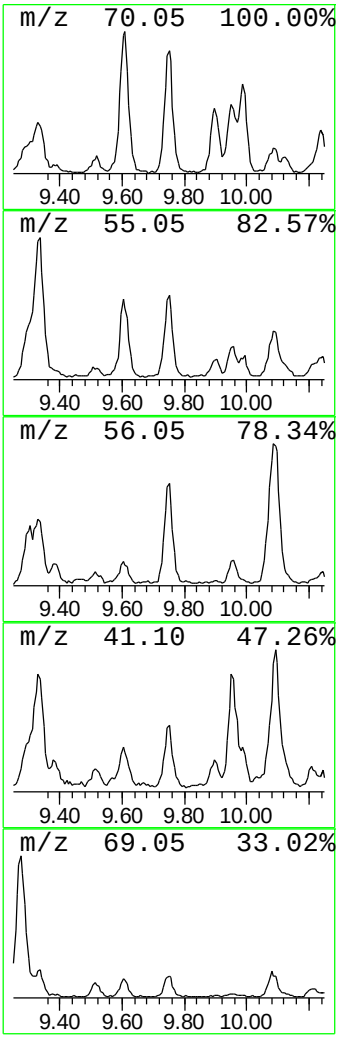
**********

Peak Number 2 (DEL) Alkane: Cyclic9.75 Concentration Rank 40

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.75 | 2.30 ug/L | 262414 | 1,4-Difluorobenzene | 8.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1,2,3-trimethyl-, ... | 112 | C8H16 | 015890-40-1 | 94 |
| 2 | Cyclopentane, 1,2,3-trimethyl- | 112 | C8H16 | 002815-57-8 | 91 |
| 3 | Cyclopentane, 1,2,3-trimethyl-, ... | 112 | C8H16 | 015890-40-1 | 90 |
| 4 | Cyclopentane, 1,2,3-trimethyl-, ... | 112 | C8H16 | 002613-69-6 | 53 |
| 5 | Cyclopentane, 1,2,3-trimethyl-, ... | 112 | C8H16 | 002613-69-6 | 52 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

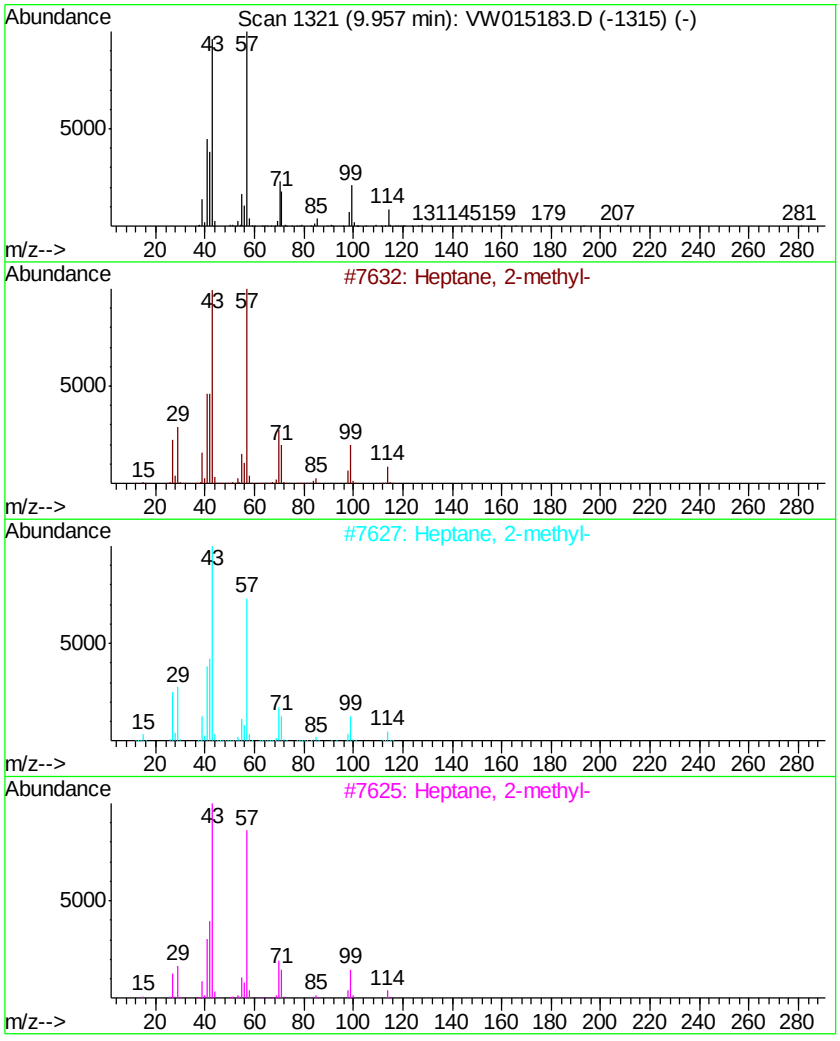
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

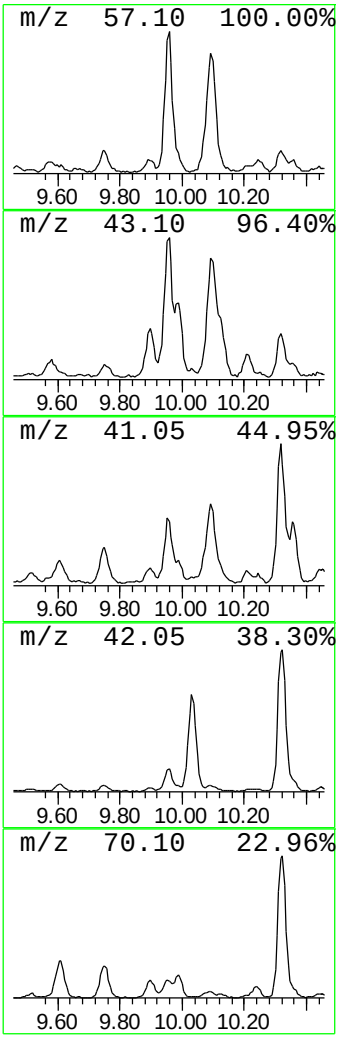
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 36

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.96 | 2.87 ug/L | 326787 | 1,4-Difluorobenzene | 8.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 2-methyl- | 114 | C8H18 | 000592-27-8 | 97 |
| 2 | Heptane, 2-methyl- | 114 | C8H18 | 000592-27-8 | 91 |
| 3 | Heptane, 2-methyl- | 114 | C8H18 | 000592-27-8 | 91 |
| 4 | Hexane, 2,5-dimethyl- | 114 | C8H18 | 000592-13-2 | 59 |
| 5 | Hexane, 2,5-dimethyl- | 114 | C8H18 | 000592-13-2 | 53 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

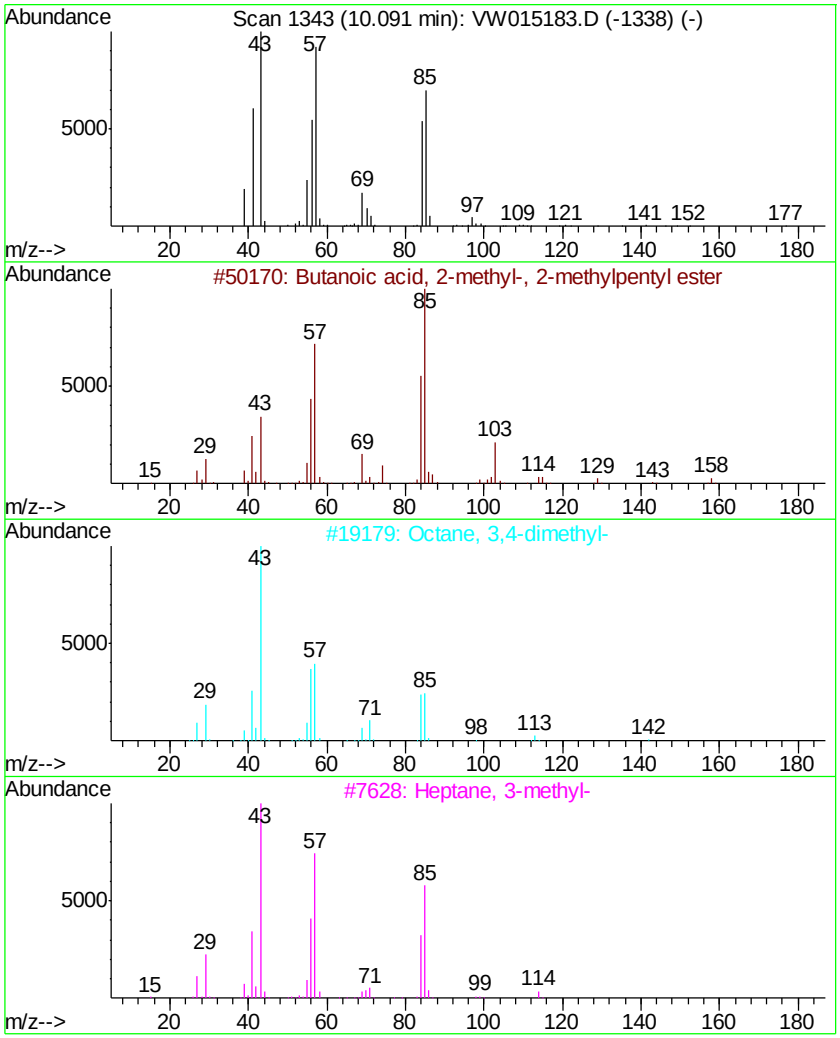
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

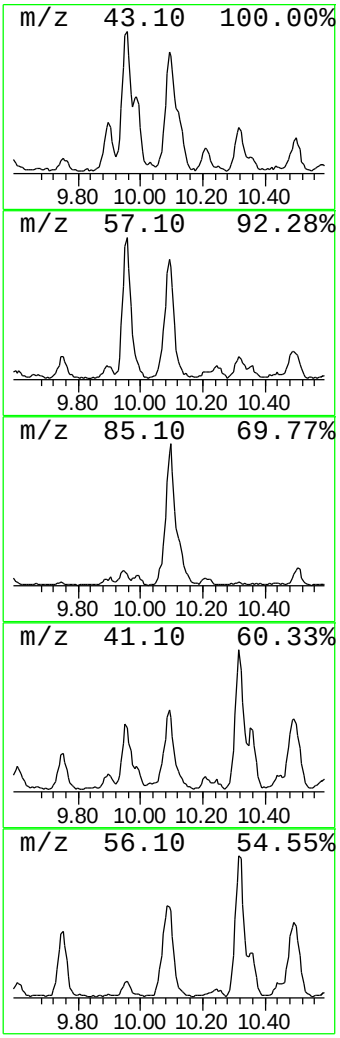
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 Butanoic acid, 2-methyl-, 2... Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.09 | 5.08 ug/L | 578986 | 1,4-Difluorobenzene | 8.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanoic acid, 2-methyl-, 2-meth... | 186 | C11H22O2 | 083783-88-4 | 72 |
| 2 | Octane, 3,4-dimethyl- | 142 | C10H22 | 015869-92-8 | 64 |
| 3 | Heptane, 3-methyl- | 114 | C8H18 | 000589-81-1 | 64 |
| 4 | Heptane, 3,4,5-trimethyl- | 142 | C10H22 | 020278-89-1 | 59 |
| 5 | Heptane, 2,3-dimethyl- | 128 | C9H20 | 003074-71-3 | 59 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

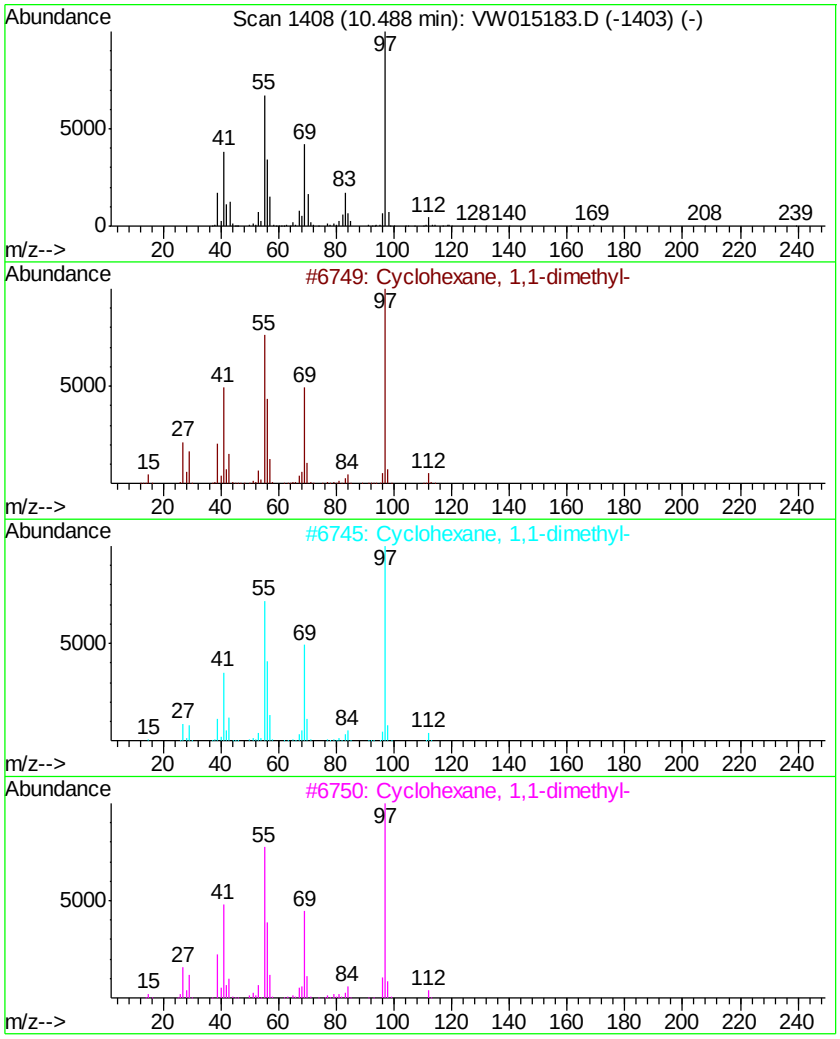
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

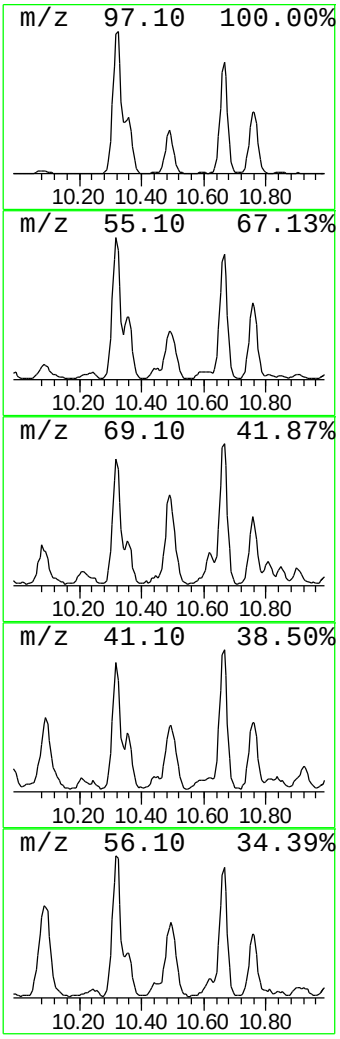
**********

Peak Number 6 (DEL) Alkane: Cyclic10.49 Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.49 | 5.04 ug/L | 628824 | Chlorobenzene-d5 | 11.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,1-dimethyl- | 112 | C8H16 | 000590-66-9 | 81 |
| 2 | Cyclohexane, 1,1-dimethyl- | 112 | C8H16 | 000590-66-9 | 81 |
| 3 | Cyclohexane, 1,1-dimethyl- | 112 | C8H16 | 000590-66-9 | 68 |
| 4 | (S)-(+)-6-Methyl-1-octanol | 144 | C9H20O | 110453-78-6 | 59 |
| 5 | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16 | 002207-03-6 | 53 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

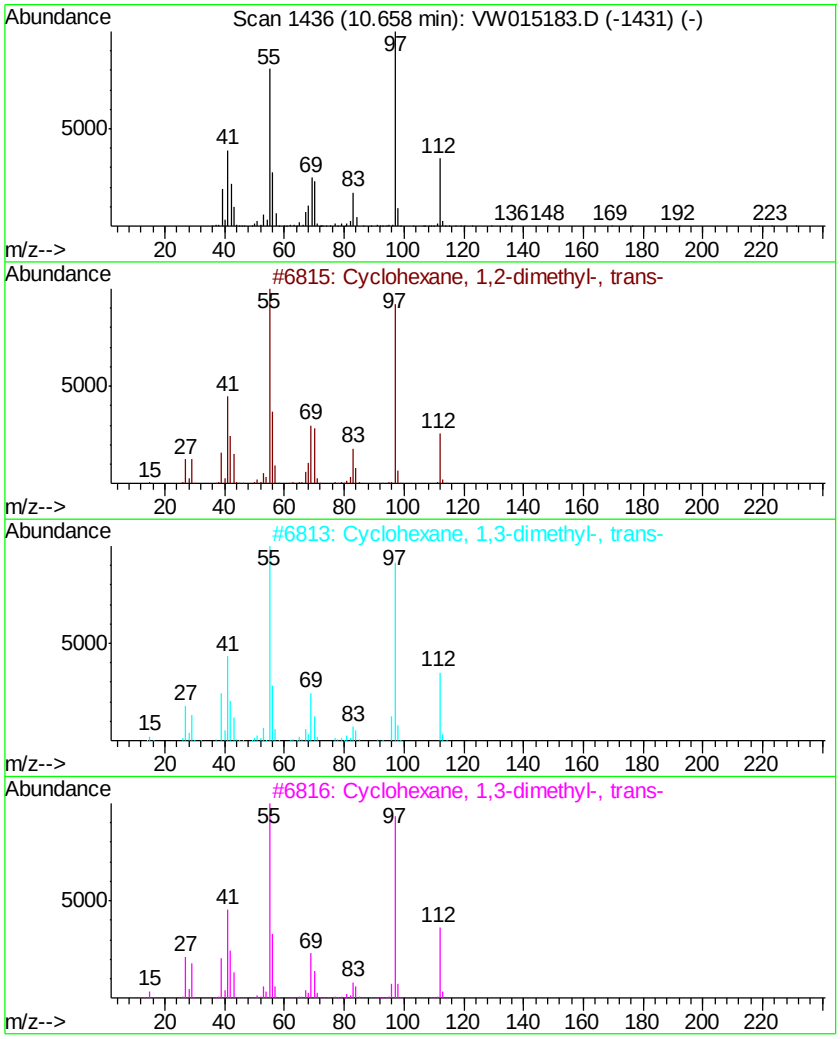
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

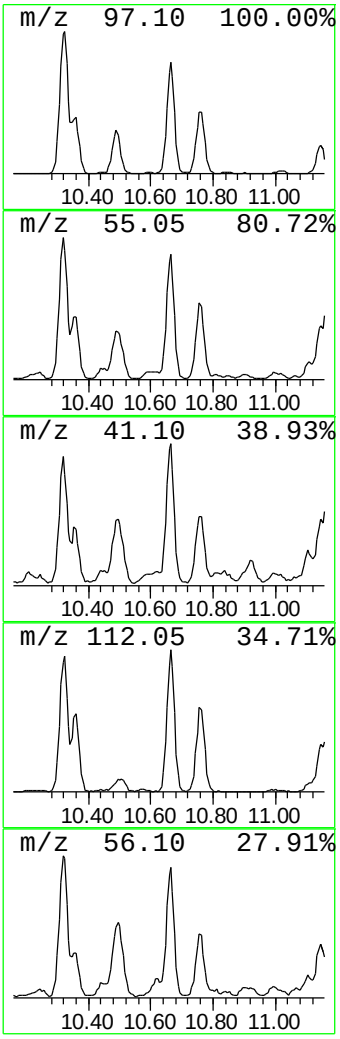
**********

Peak Number 7 (DEL) Alkane: Cyclic10.66 Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.66 | 8.80 ug/L | 1098350 | Chlorobenzene-d5 | 11.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,2-dimethyl-, trans- | 112 | C8H16 | 006876-23-9 | 94 |
| 2 | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16 | 002207-03-6 | 90 |
| 3 | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16 | 002207-03-6 | 87 |
| 4 | Cyclohexane, 1,2-dimethyl-, trans- | 112 | C8H16 | 006876-23-9 | 87 |
| 5 | Cyclohexane, 1,2-dimethyl-, trans- | 112 | C8H16 | 006876-23-9 | 87 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

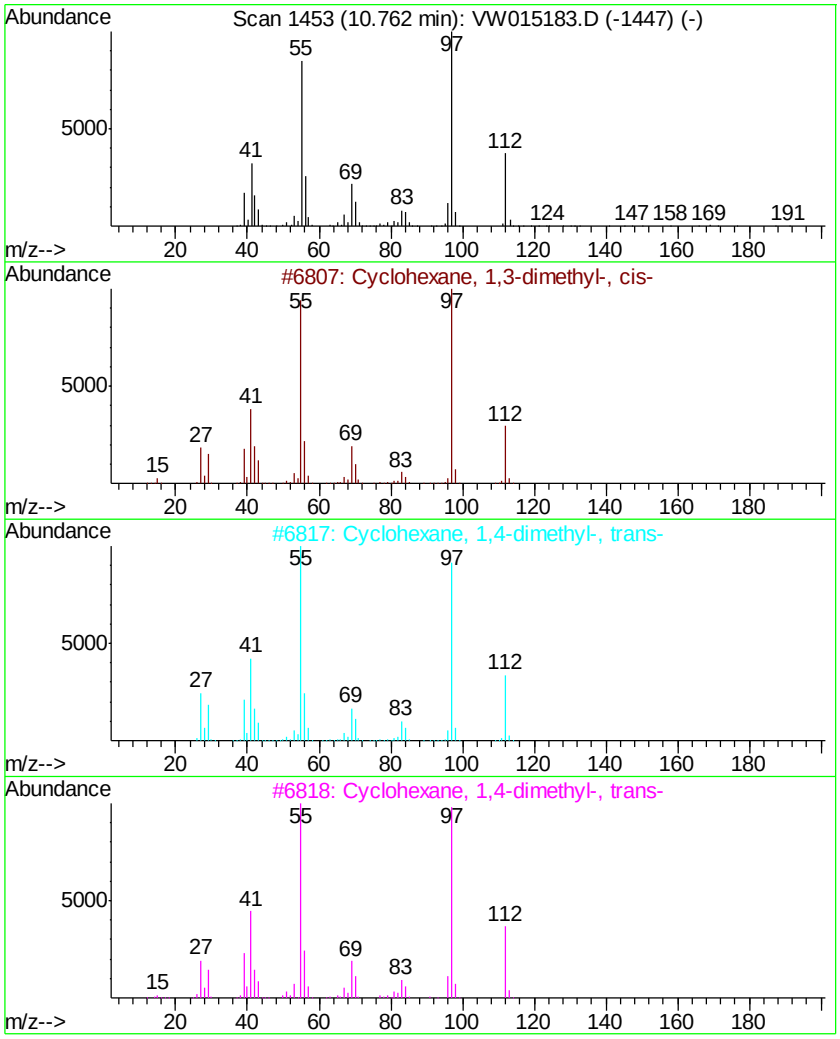
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

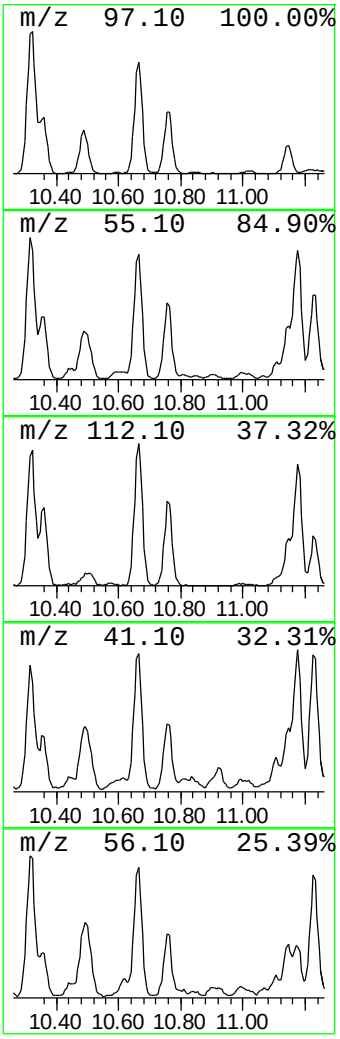
**********

Peak Number 8 (DEL) Alkane: Cyclic10.76 Concentration Rank 34

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.76 | 4.43 ug/L | 553010 | Chlorobenzene-d5 | 11.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,3-dimethyl-, cis- | 112 | C8H16 | 000638-04-0 | 95 |
| 2 | Cyclohexane, 1,4-dimethyl-, trans- | 112 | C8H16 | 002207-04-7 | 94 |
| 3 | Cyclohexane, 1,4-dimethyl-, trans- | 112 | C8H16 | 002207-04-7 | 94 |
| 4 | Cyclohexane, 1,4-dimethyl-, trans- | 112 | C8H16 | 002207-04-7 | 94 |
| 5 | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16 | 002207-03-6 | 94 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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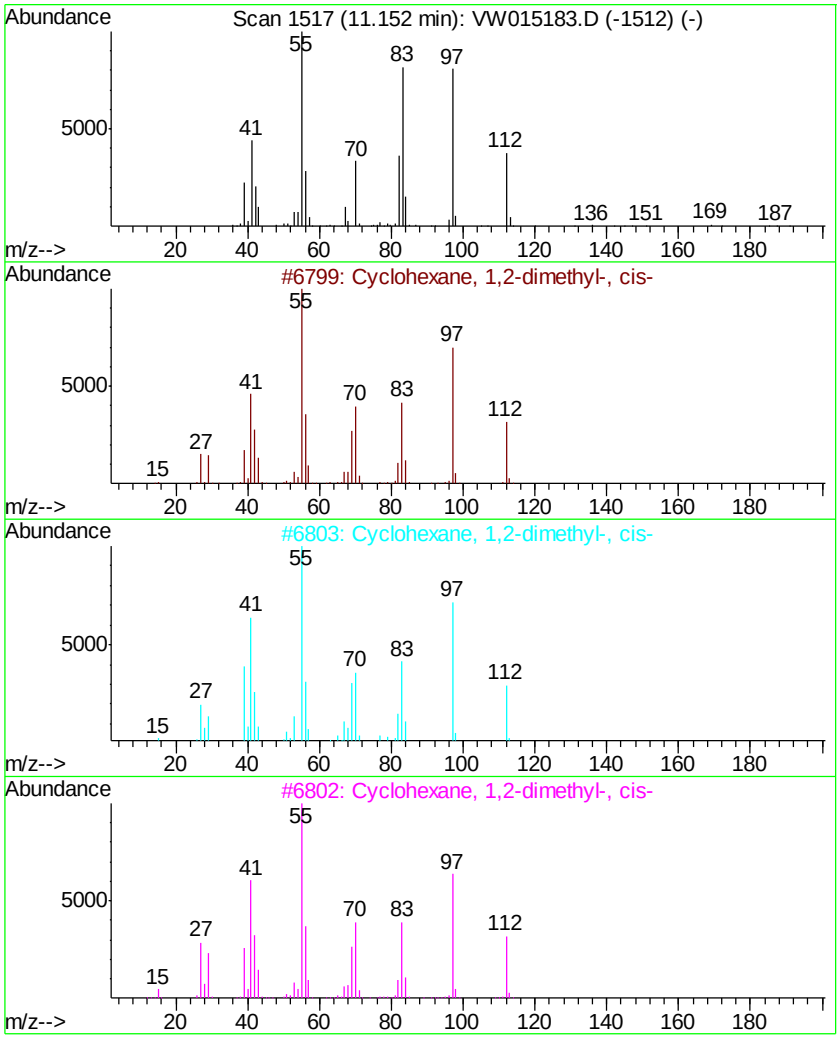
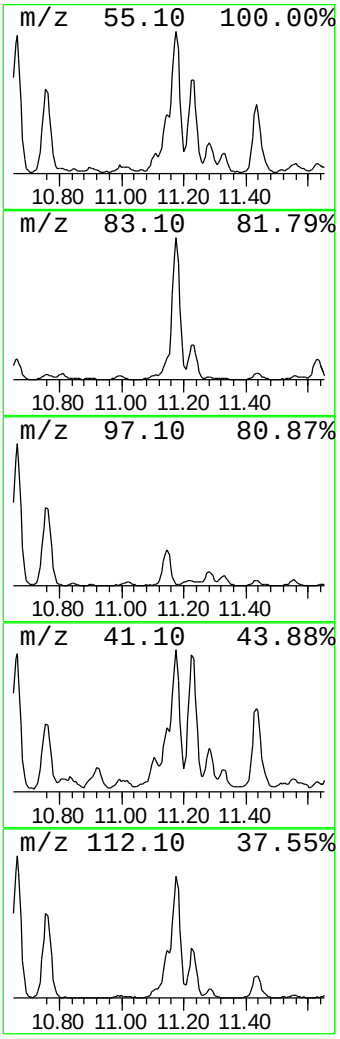
Peak Number 9 (DEL) Alkane: Cyclic11.15 Concentration Rank 47

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.15 | 1.73 ug/L | 215954 | Chlorobenzene-d5 | 11.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,2-dimethyl-, cis- | 112 | C8H16 | 002207-01-4 | 90 |
| 2 | Cyclohexane, 1,2-dimethyl-, cis- | 112 | C8H16 | 002207-01-4 | 87 |
| 3 | Cyclohexane, 1,2-dimethyl-, cis- | 112 | C8H16 | 002207-01-4 | 87 |
| 4 | Cyclohexane, 1,2-dimethyl- (cis/... | 112 | C8H16 | 000583-57-3 | 83 |
| 5 | Cyclohexane, 1,2-dimethyl-, trans- | 112 | C8H16 | 006876-23-9 | 64 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

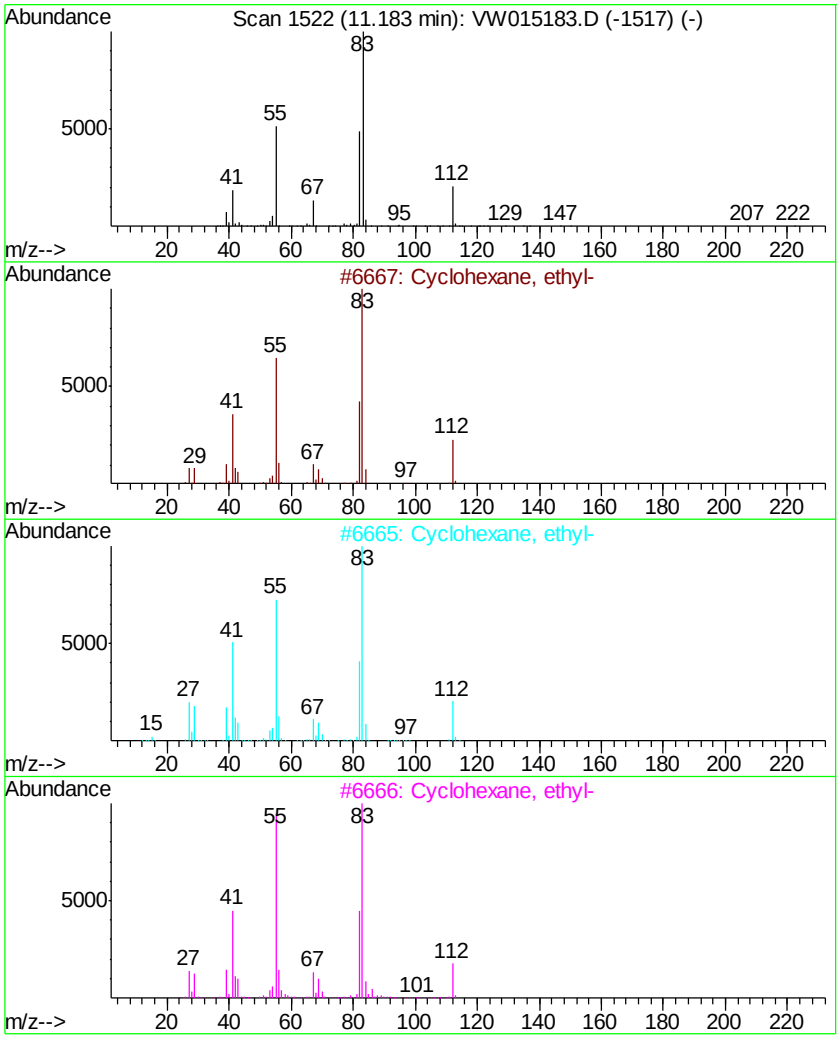
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

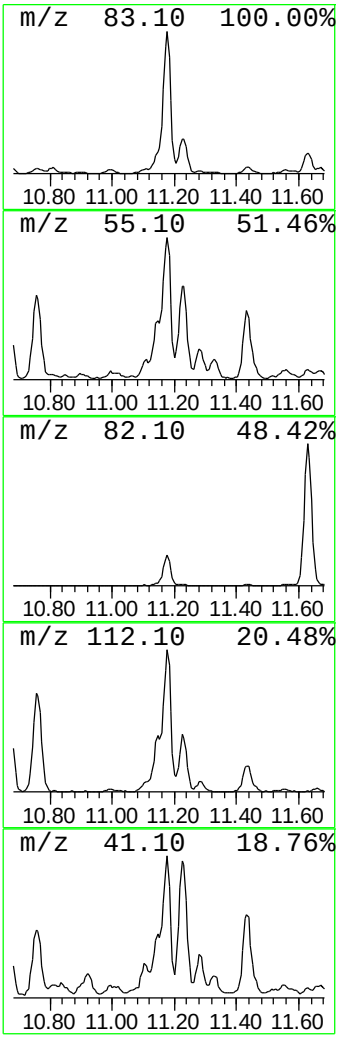
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 10 (DEL) Alkane: Cyclic11.18 Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.18 | 5.96 ug/L | 744369 | Chlorobenzene-d5 | 11.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, ethyl- | 112 | C8H16 | 001678-91-7 | 83 |
| 2 | Cyclohexane, ethyl- | 112 | C8H16 | 001678-91-7 | 83 |
| 3 | Cyclohexane, ethyl- | 112 | C8H16 | 001678-91-7 | 78 |
| 4 | Cyclohexane, ethyl- | 112 | C8H16 | 001678-91-7 | 72 |
| 5 | Cyclohexane, ethyl- | 112 | C8H16 | 001678-91-7 | 72 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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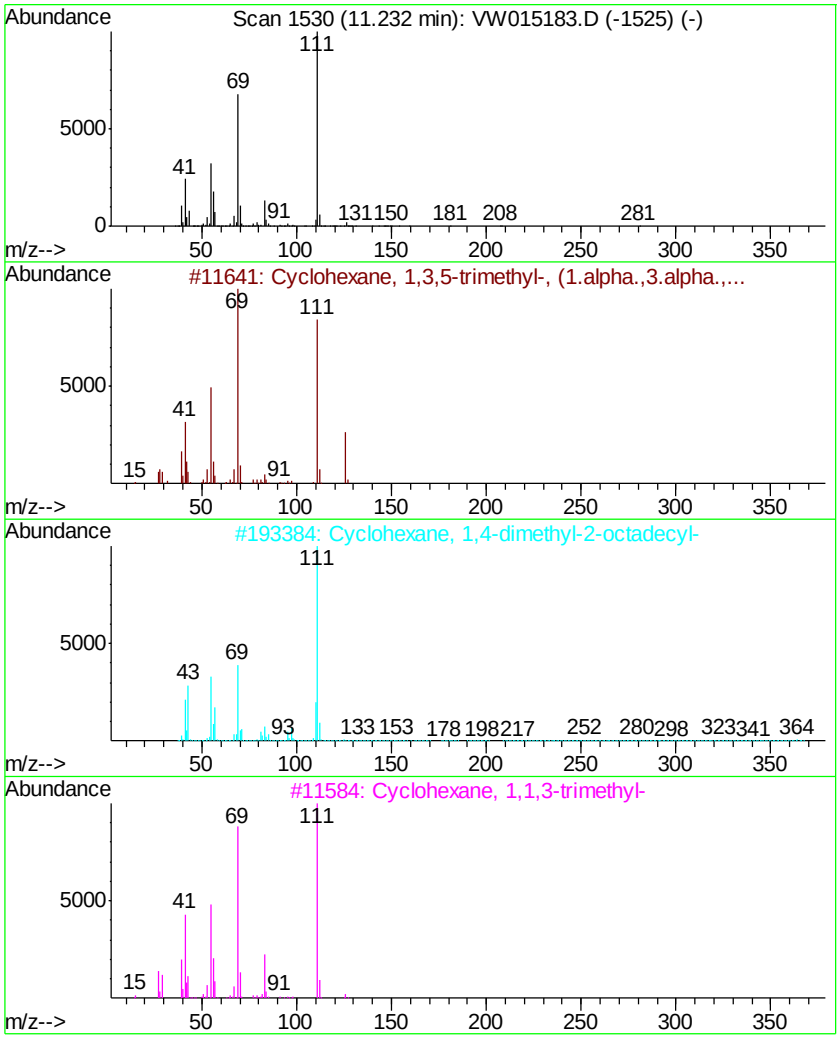
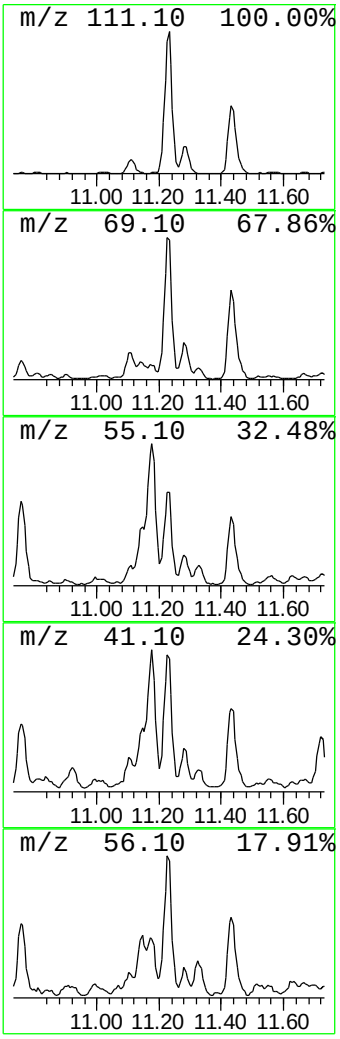
Peak Number 11 (DEL) Alkane: Cyclic11.23 Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.23 | 8.17 ug/L | 1019630 | Chlorobenzene-d5 | 11.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-27-3 | 72 |
| 2 | Cyclohexane, 1,4-dimethyl-2-octa... | 364 | C26H52 | 055282-02-5 | 64 |
| 3 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 64 |
| 4 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-26-2 | 64 |
| 5 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 58 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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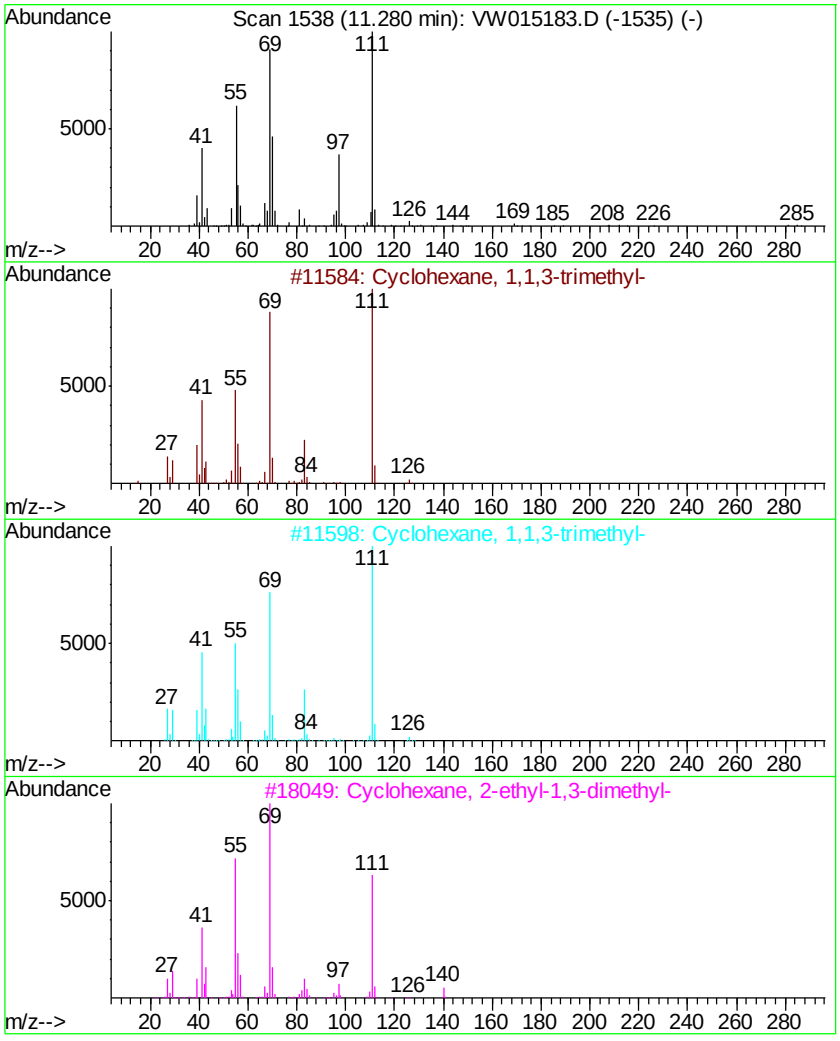
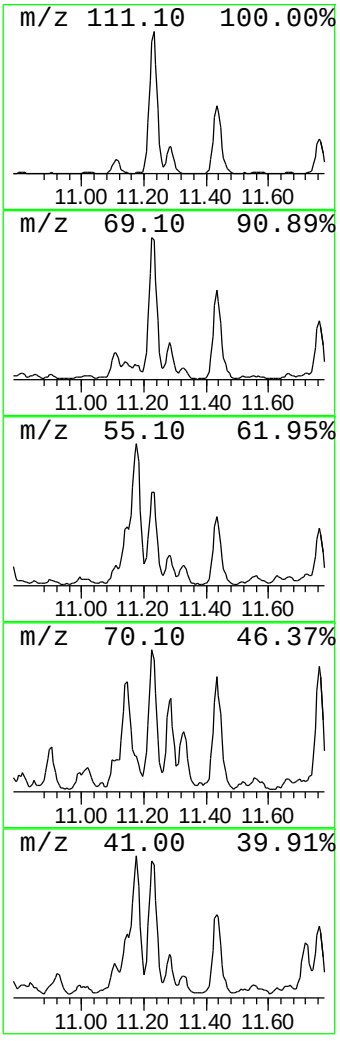
Peak Number 12 (DEL) Alkane: Cyclic11.28 Concentration Rank 48

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.28 | 1.60 ug/L | 200121 | Chlorobenzene-d5 | 11.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 68 |
| 2 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 64 |
| 3 | Cyclohexane, 2-ethyl-1,3-dimethyl- | 140 | C10H20 | 007045-67-2 | 59 |
| 4 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 59 |
| 5 | Cyclooctane, butyl- | 168 | C12H24 | 016538-93-5 | 59 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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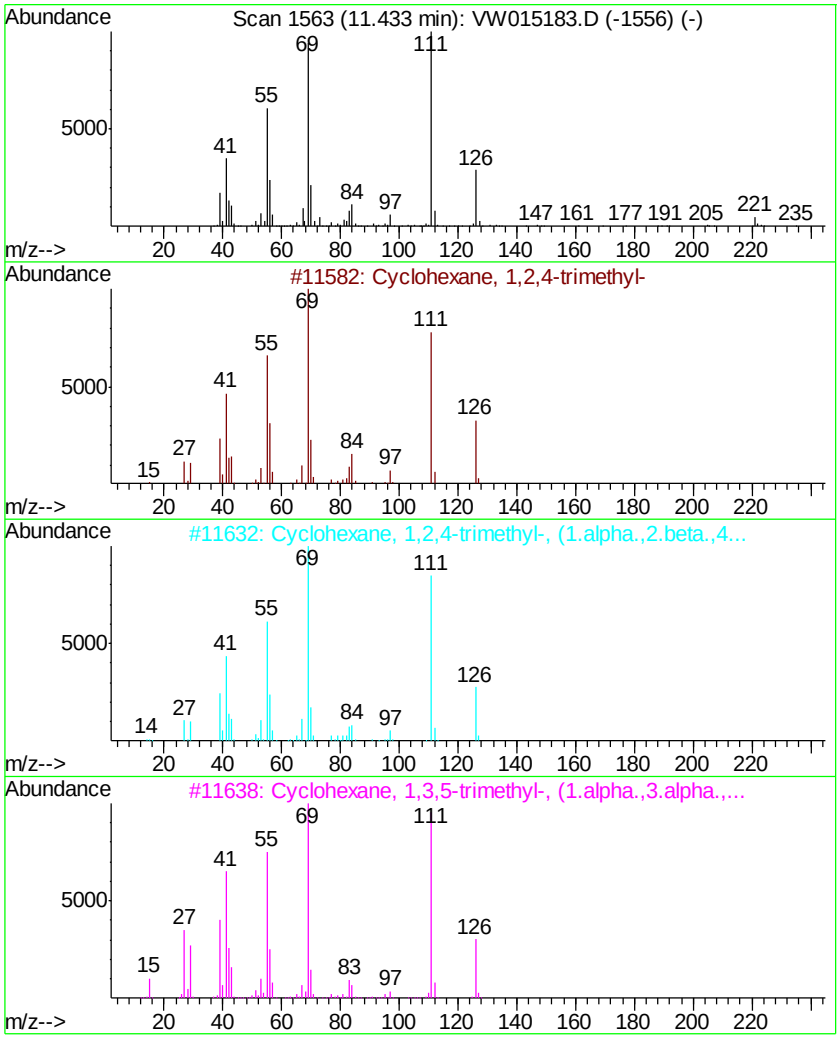
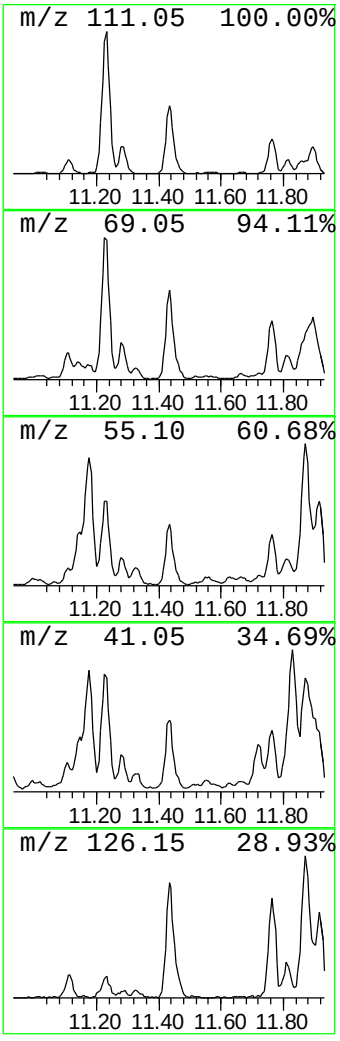
Peak Number 13 (DEL) Alkane: Cyclic11.43 Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.43 | 6.61 ug/L | 825969 | Chlorobenzene-d5 | 11.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,2,4-trimethyl- | 126 | C9H18 | 002234-75-5 | 93 |
| 2 | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18 | 007667-60-9 | 90 |
| 3 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-26-2 | 90 |
| 4 | Cyclohexane, 1,3,5-trimethyl- | 126 | C9H18 | 001839-63-0 | 87 |
| 5 | Cyclohexane, 1,2,4-trimethyl- | 126 | C9H18 | 002234-75-5 | 86 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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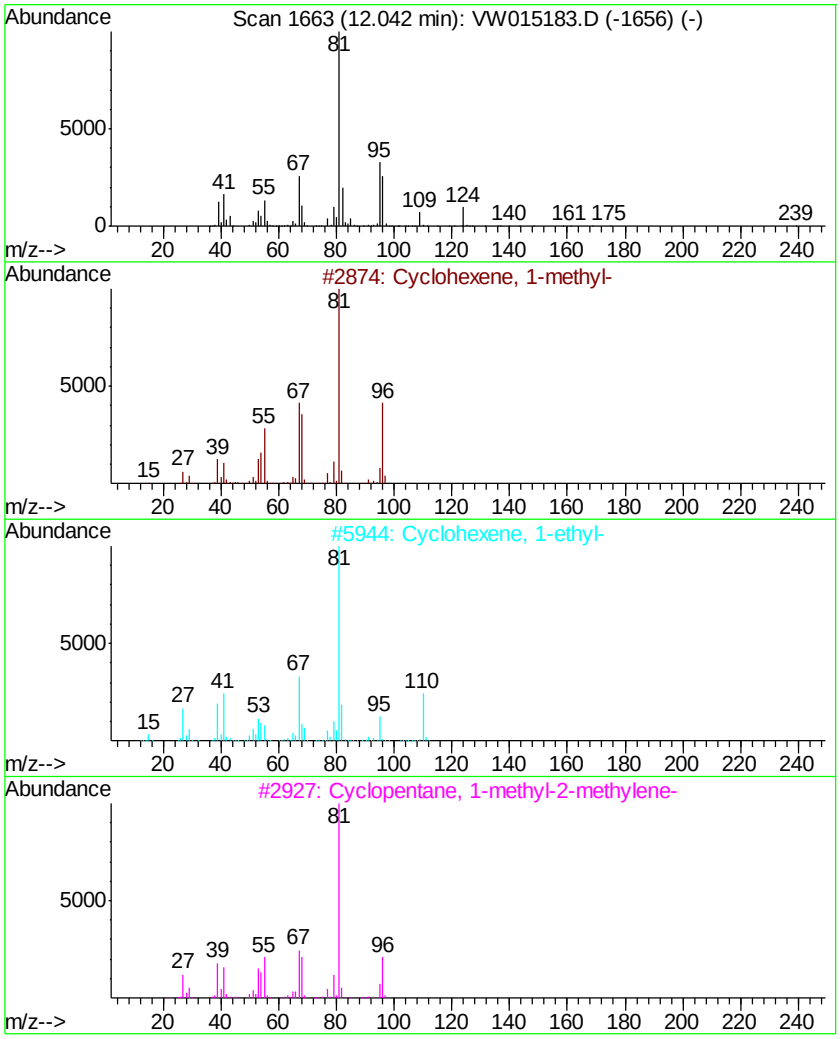
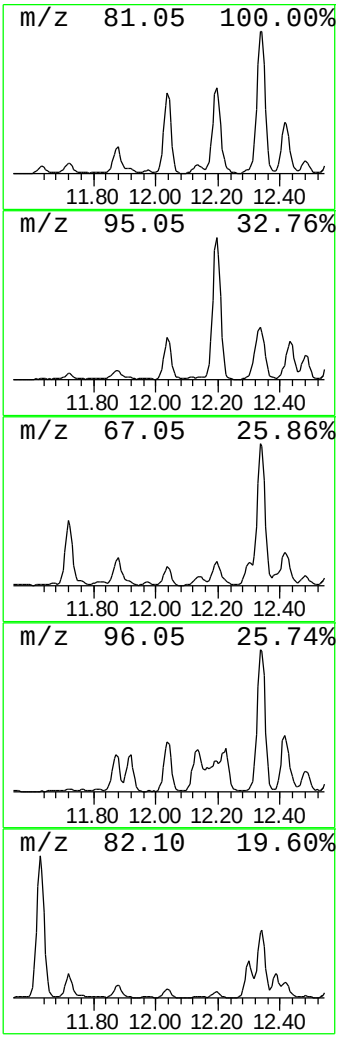
Peak Number 14 Cyclohexene, 1-methyl- Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.04 | 5.97 ug/L | 745149 | Chlorobenzene-d5 | 11.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexene, 1-methyl- | 96 | C7H12 | 000591-49-1 | 62 |
| 2 | Cyclohexene, 1-ethyl- | 110 | C8H14 | 001453-24-3 | 53 |
| 3 | Cyclopentane, 1-methyl-2-methylene- | 96 | C7H12 | 041158-41-2 | 53 |
| 4 | Cyclohexene, 3-methyl- | 96 | C7H12 | 000591-48-0 | 53 |
| 5 | Cyclobutane, (1-methylethylidene)- | 96 | C7H12 | 001528-22-9 | 47 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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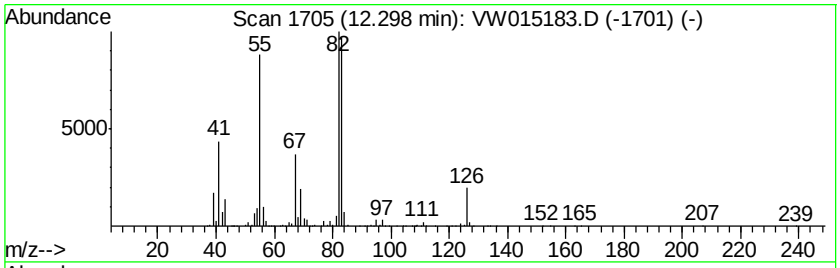
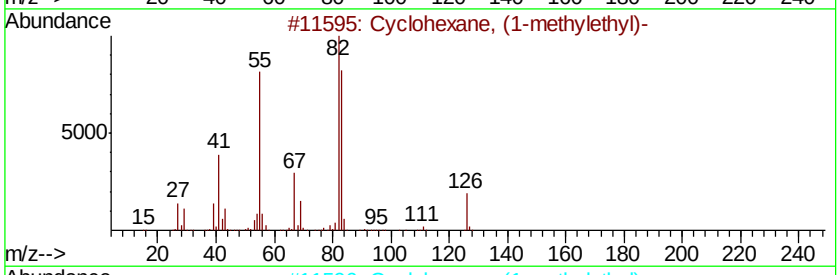
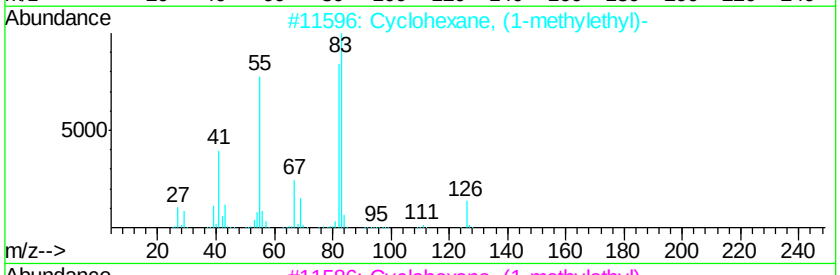
Peak Number 15 (DEL) Alkane: Cyclic12.30 Concentration Rank 31

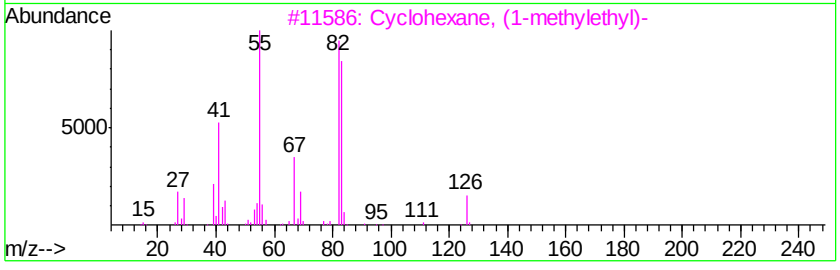
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.30 | 5.54 ug/L | 691977 | Chlorobenzene-d5 | 11.63 |

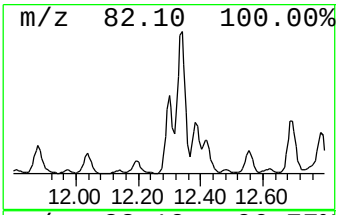
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 97 |
| 2 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 94 |
| 3 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 94 |
| 4 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 94 |
| 5 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 86 |

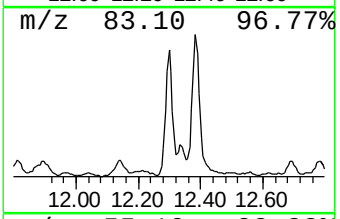


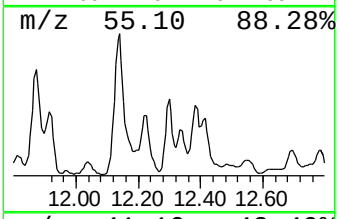



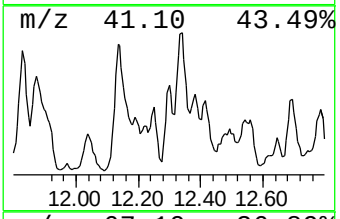



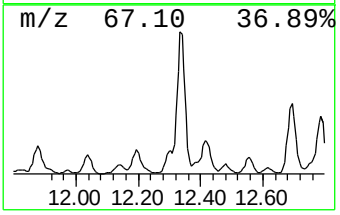



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

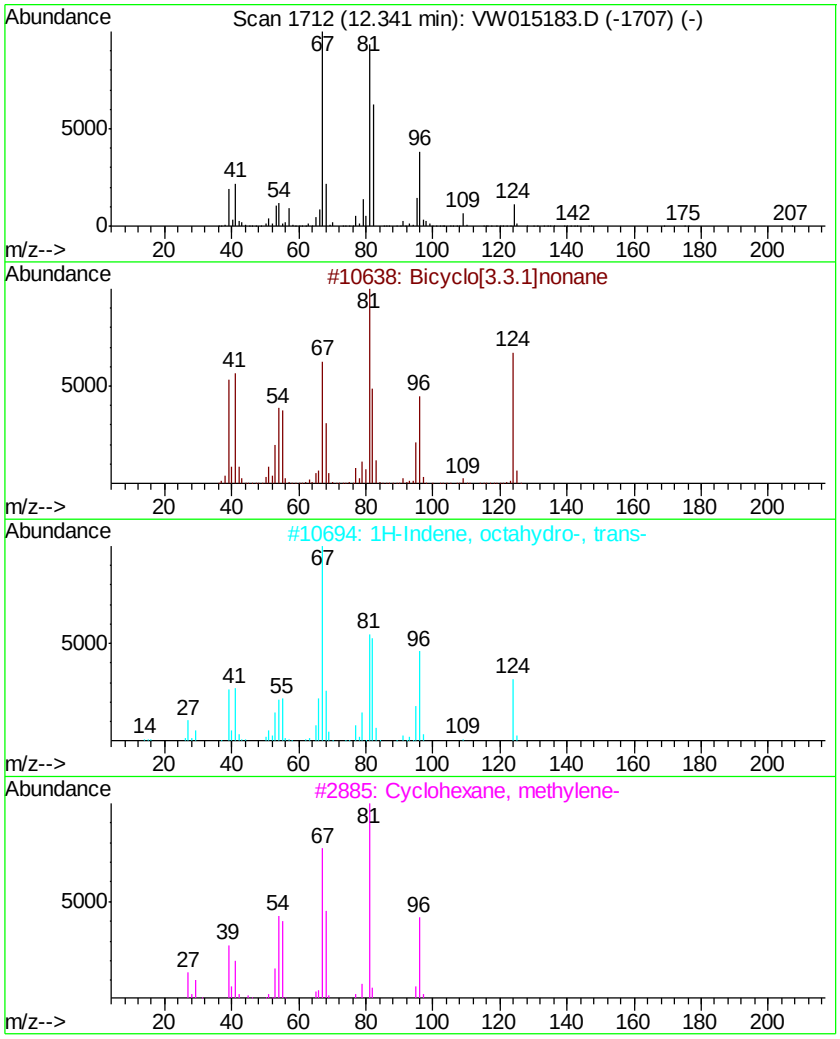
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

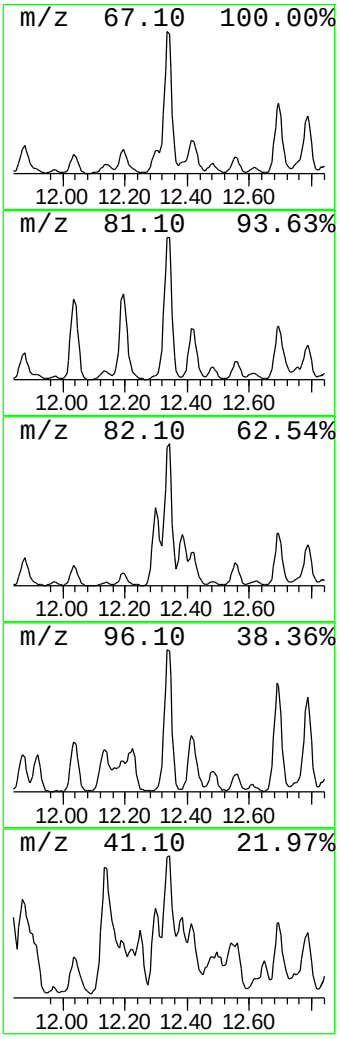
**********

Peak Number 16 Bicyclo[3.3.1]nonane Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.34 | 20.22 ug/L | 2525460 | Chlorobenzene-d5 | 11.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[3.3.1]nonane | 124 | C9H16 | 000280-65-9 | 64 |
| 2 | 1H-Indene, octahydro-, trans- | 124 | C9H16 | 003296-50-2 | 64 |
| 3 | Cyclohexane, methylene- | 96 | C7H12 | 001192-37-6 | 58 |
| 4 | Pentalene, octahydro-2-methyl- | 124 | C9H16 | 003868-64-2 | 58 |
| 5 | Cyclohexene, 1-butyl- | 138 | C10H18 | 003282-53-9 | 53 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

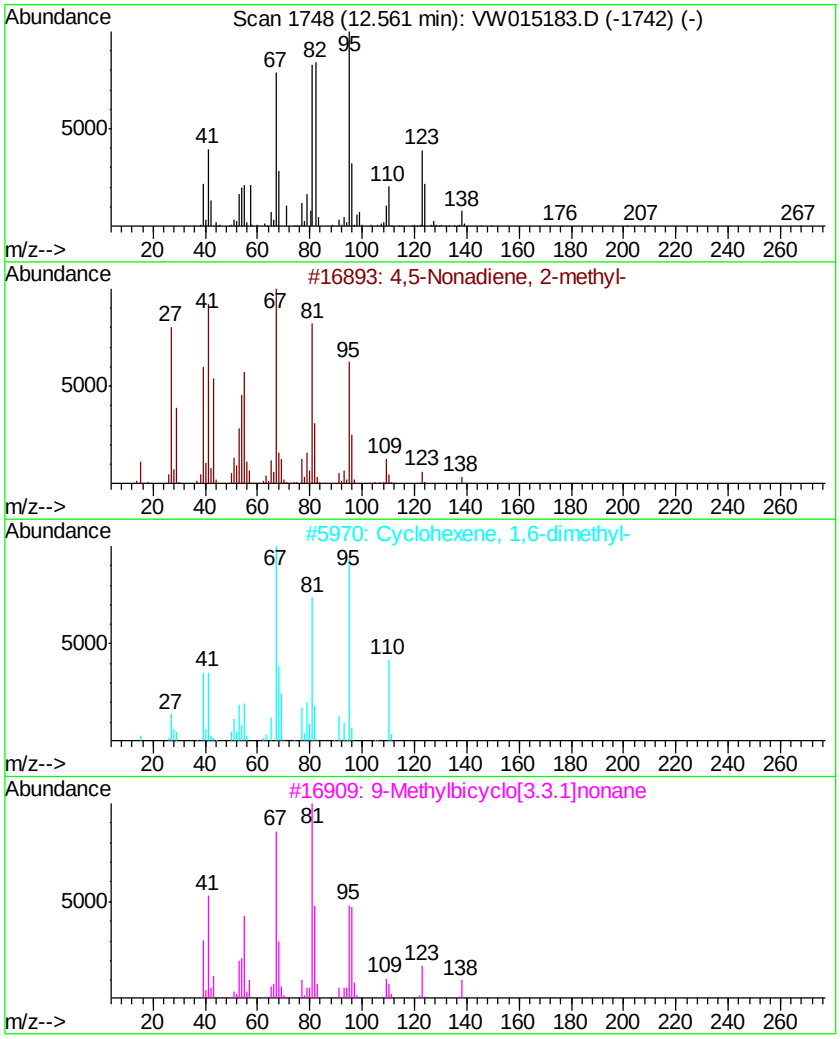
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

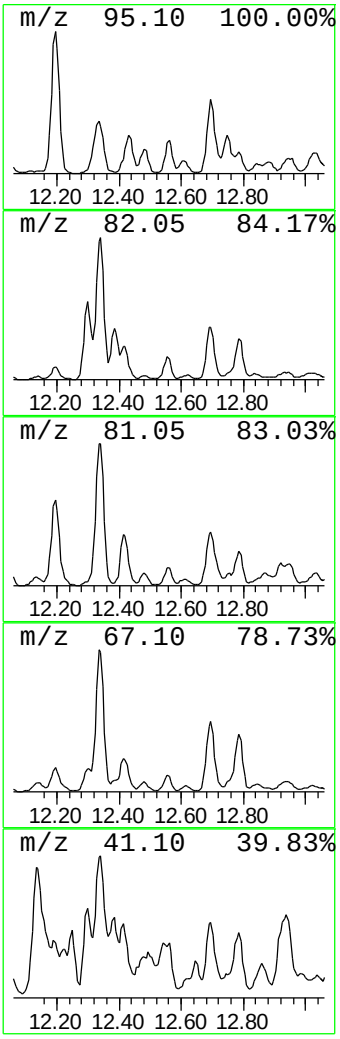
**********

Peak Number 17 4,5-Nonadiene, 2-methyl- Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.56 | 5.91 ug/L | 738004 | Chlorobenzene-d5 | 11.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4,5-Nonadiene, 2-methyl- | 138 | C10H18 | 055956-32-6 | 64 |
| 2 | Cyclohexene, 1,6-dimethyl- | 110 | C8H14 | 001759-64-4 | 58 |
| 3 | 9-Methylbicyclo[3.3.1]nonane | 138 | C10H18 | 025107-01-1 | 55 |
| 4 | 1H-Indene, octahydro-, cis- | 124 | C9H16 | 004551-51-3 | 52 |
| 5 | Cyclohexene, 1,2-dimethyl- | 110 | C8H14 | 001674-10-8 | 49 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

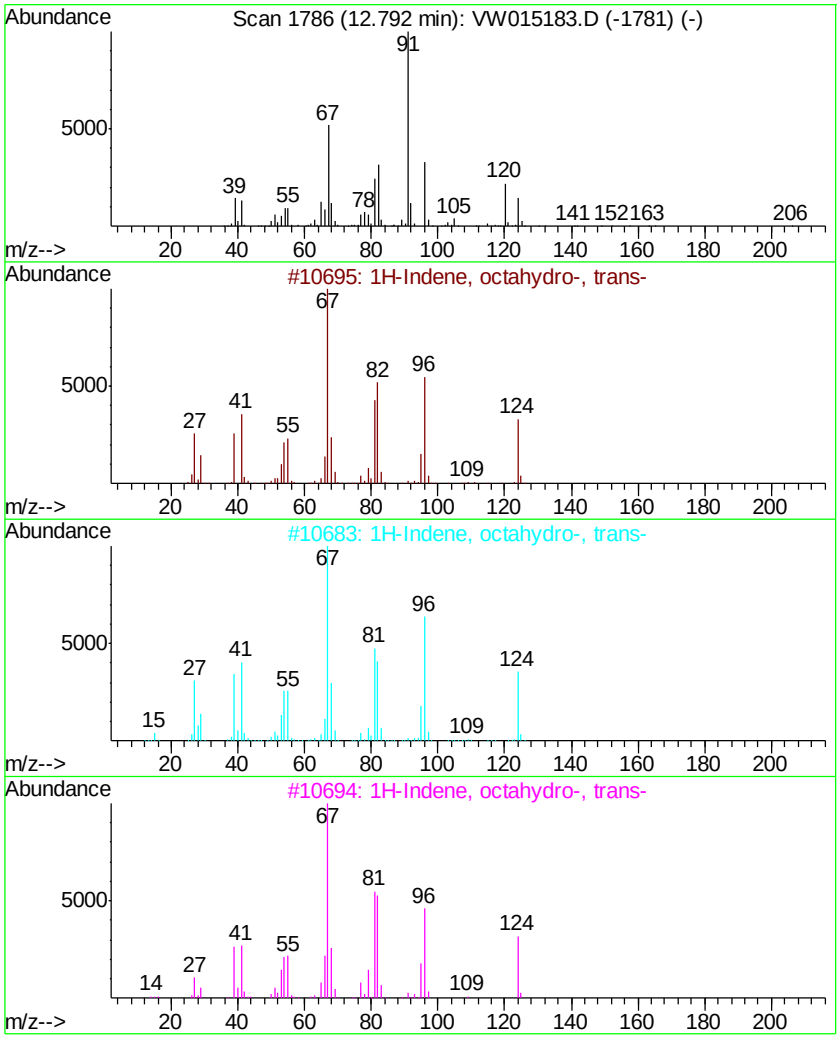
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

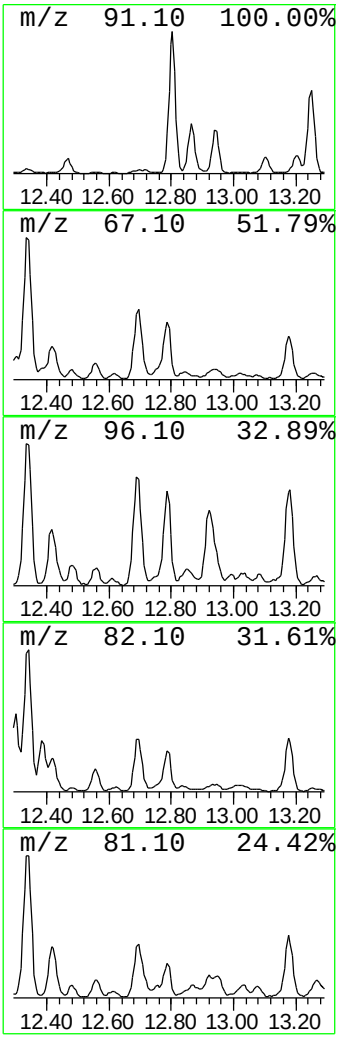
**********

Peak Number 19 1H-Indene, octahydro-, trans- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.79 | 10.78 ug/L | 1233210 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, octahydro-, trans- | 124 | C9H16 | 003296-50-2 | 91 |
| 2 | 1H-Indene, octahydro-, trans- | 124 | C9H16 | 003296-50-2 | 60 |
| 3 | 1H-Indene, octahydro-, trans- | 124 | C9H16 | 003296-50-2 | 50 |
| 4 | Cyclopentene, 3-ethyl- | 96 | C7H12 | 000694-35-9 | 38 |
| 5 | 2-Cyclopenten-1-one, 2-methyl- | 96 | C6H8O | 001120-73-6 | 38 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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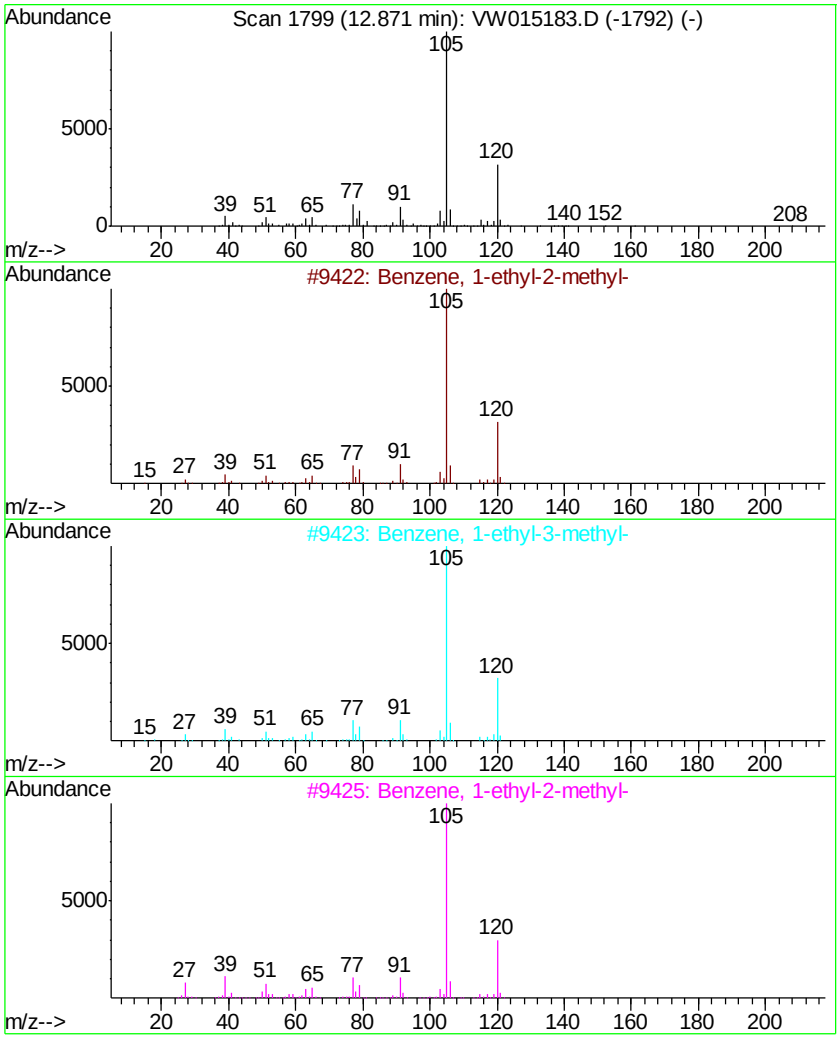
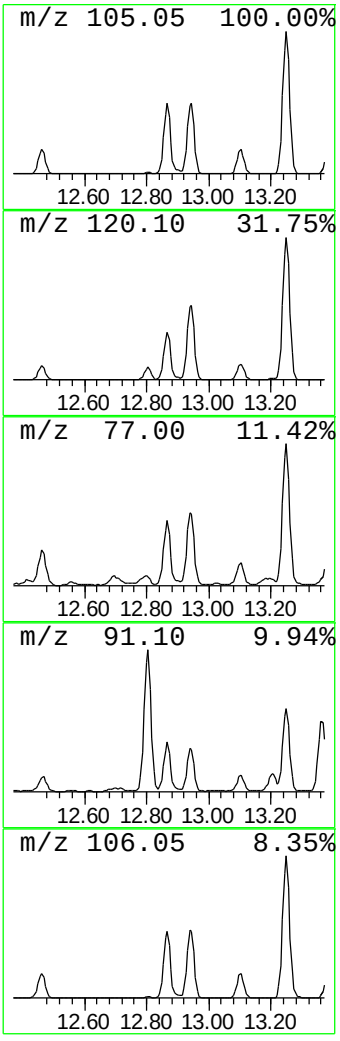
Peak Number 20 Benzene, 1-ethyl-2-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.87 | 18.34 ug/L | 2098030 | 1,4-Dichlorobenzene-d4 | 13.55 |

| 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-3-methyl- | 120 | C9H12 | 000620-14-4 | 95 |
| 3 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 95 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 94 |
| 5 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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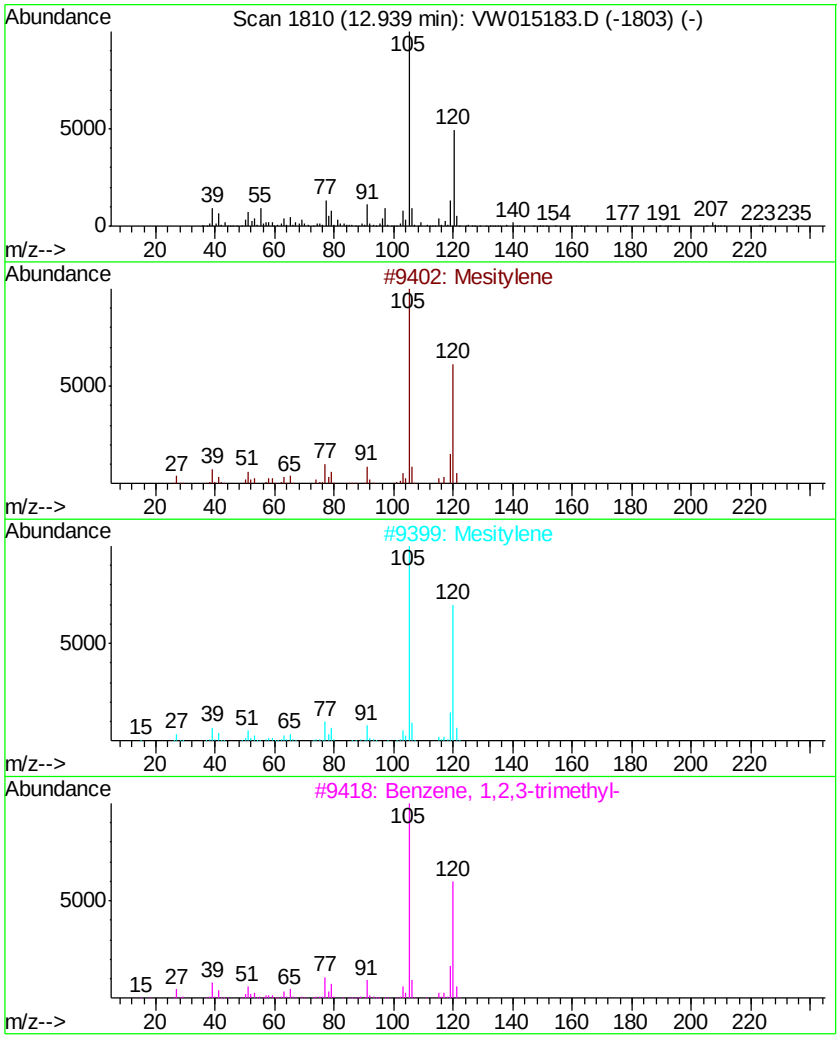
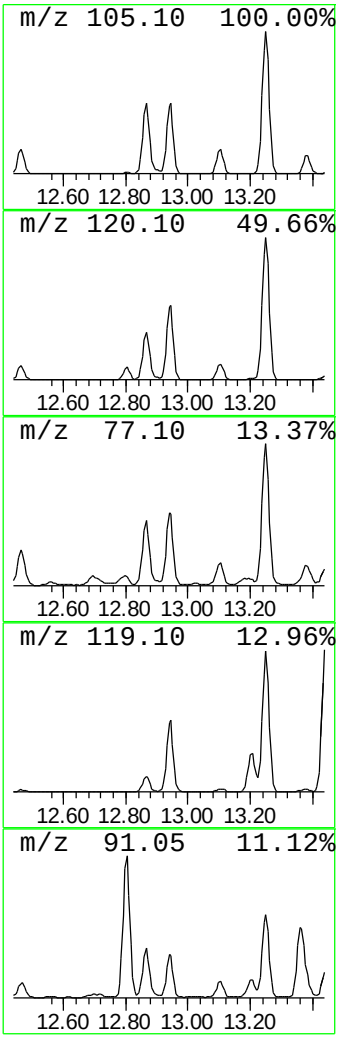
Peak Number 21 Benzene, 1,2,3-trimethyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.94 | 28.02 ug/L | 3205270 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Mesitylene | 120 | C9H12 | 000108-67-8 | 95 |
| 2 | Mesitylene | 120 | C9H12 | 000108-67-8 | 95 |
| 3 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 95 |
| 4 | Mesitylene | 120 | C9H12 | 000108-67-8 | 94 |
| 5 | Mesitylene | 120 | C9H12 | 000108-67-8 | 94 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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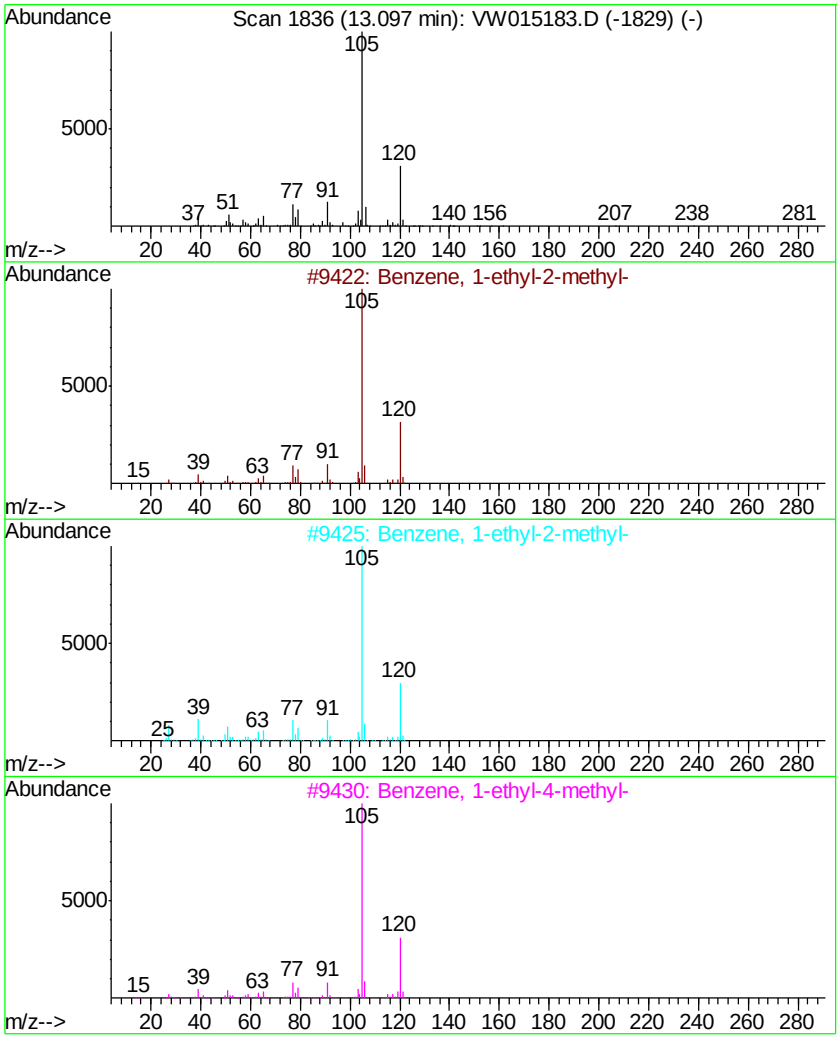
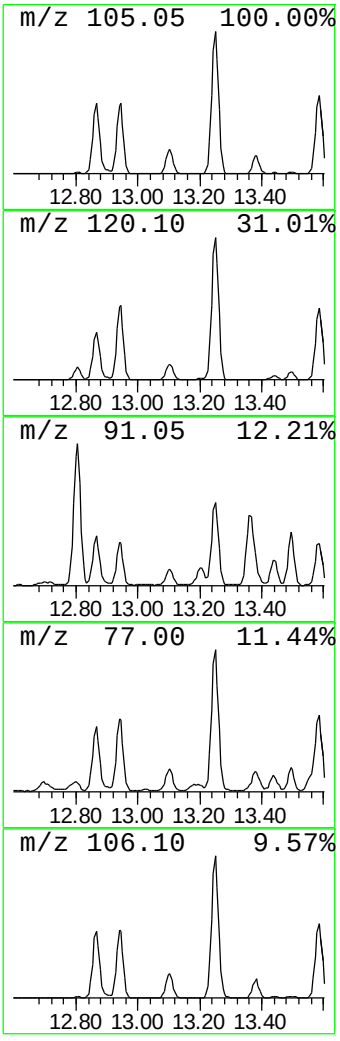
Peak Number 22 Benzene, 1-ethyl-4-methyl- Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.10 | 7.52 ug/L | 860680 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 93 |
| 2 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 93 |
| 3 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 90 |
| 4 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 90 |
| 5 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 90 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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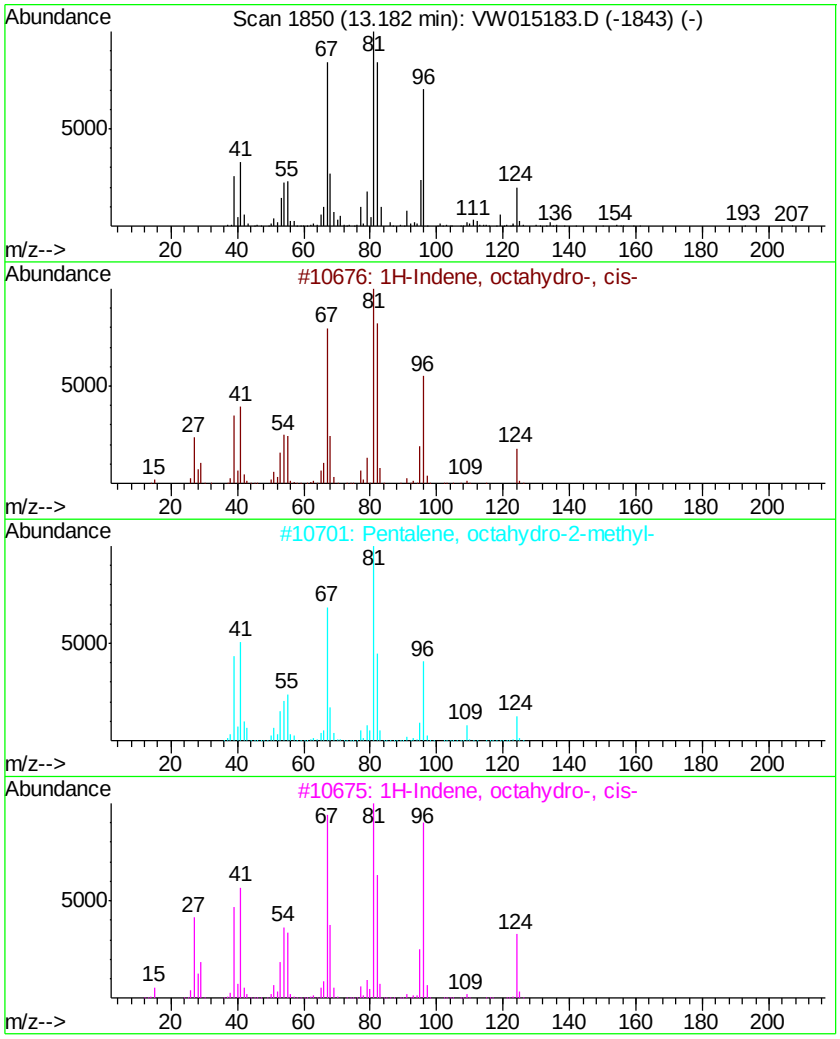
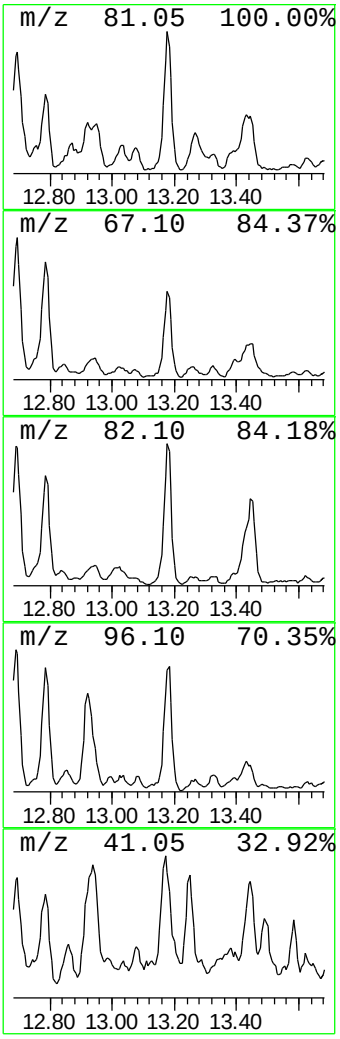
Peak Number 23 1H-Indene, octahydro-, cis- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.18 | 11.52 ug/L | 1317510 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, octahydro-, cis- | 124 | C9H16 | 004551-51-3 | 95 |
| 2 | Pentalene, octahydro-2-methyl- | 124 | C9H16 | 003868-64-2 | 68 |
| 3 | 1H-Indene, octahydro-, cis- | 124 | C9H16 | 004551-51-3 | 50 |
| 4 | 1H-Indene, octahydro-, trans- | 124 | C9H16 | 003296-50-2 | 49 |
| 5 | 1H-Indene, octahydro-, trans- | 124 | C9H16 | 003296-50-2 | 43 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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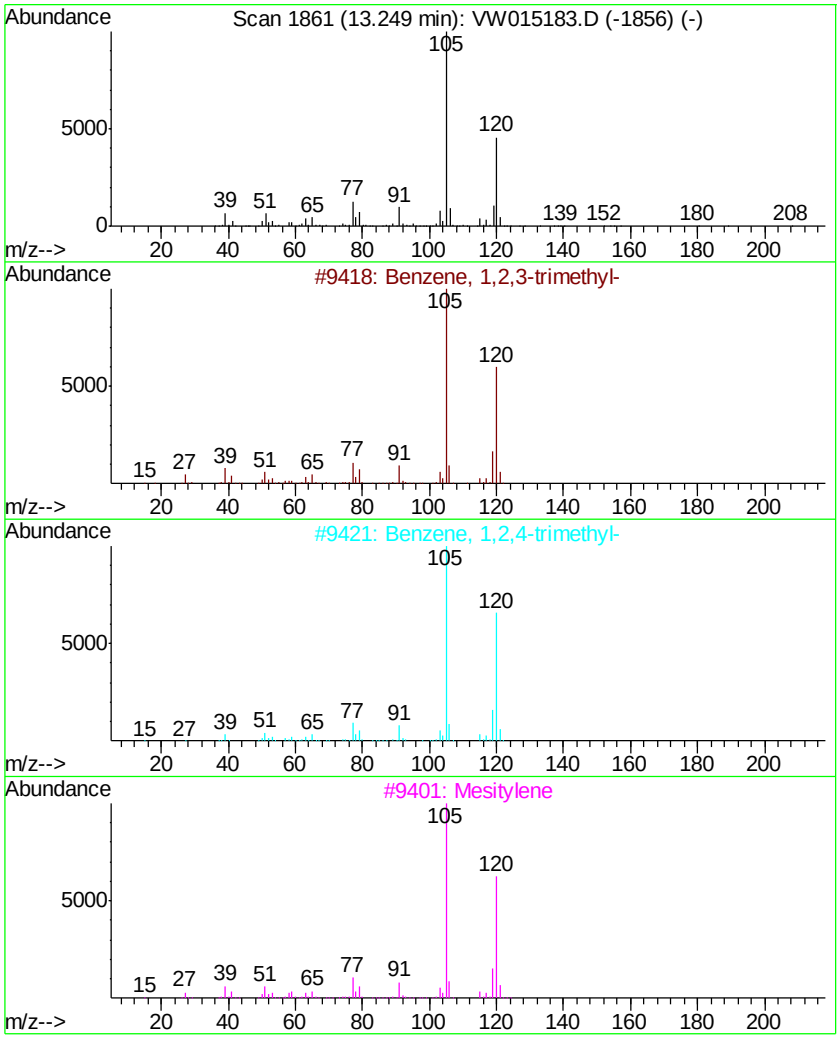
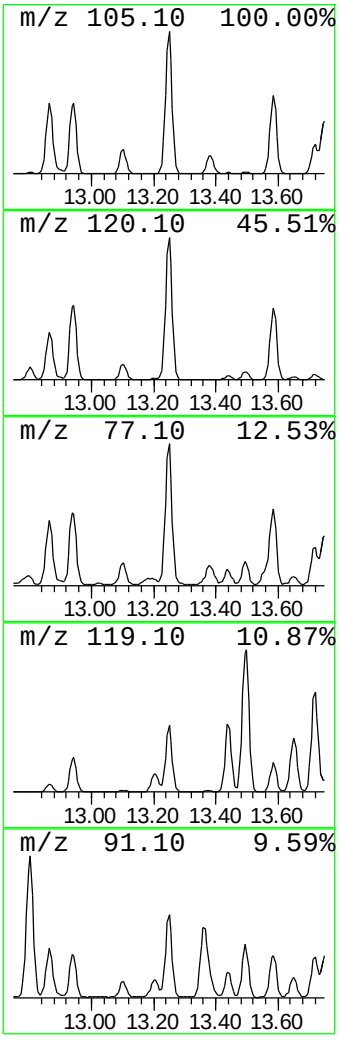
Peak Number 24 Mesitylene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.25 | 40.97 ug/L | 4685960 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 95 |
| 2 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 94 |
| 3 | Mesitylene | 120 | C9H12 | 000108-67-8 | 94 |
| 4 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 94 |
| 5 | Mesitylene | 120 | C9H12 | 000108-67-8 | 93 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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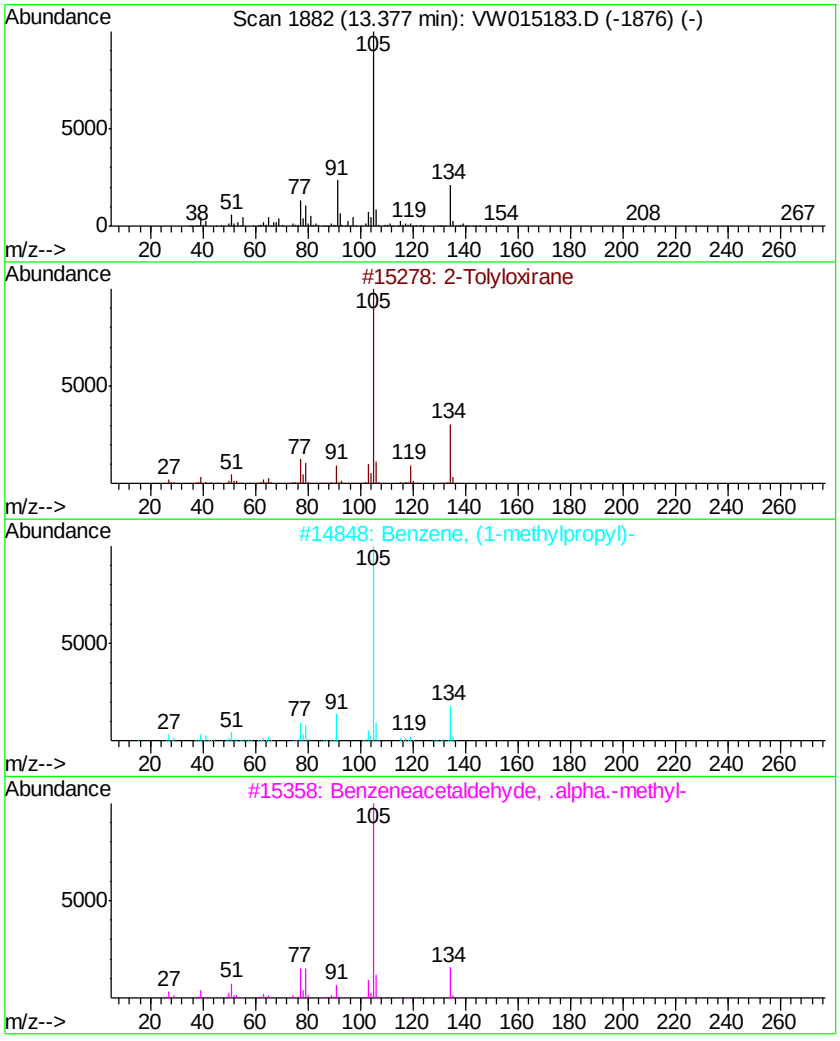
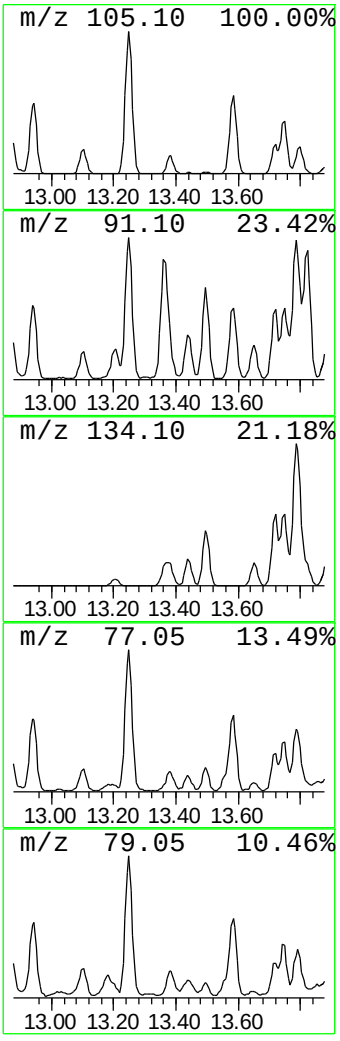
Peak Number 25 2-Tolyloxirane Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.38 | 6.45 ug/L | 737222 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Tolyloxirane | 134 | C9H10O | 002783-26-8 | 87 |
| 2 | Benzene, (1-methylpropyl)- | 134 | C10H14 | 000135-98-8 | 83 |
| 3 | Benzeneacetaldehyde, .alpha.-met... | 134 | C9H10O | 000093-53-8 | 81 |
| 4 | Benzene, 1-methyl-2-propyl- | 134 | C10H14 | 001074-17-5 | 80 |
| 5 | Benzene, (1-methylpropyl)- | 134 | C10H14 | 000135-98-8 | 74 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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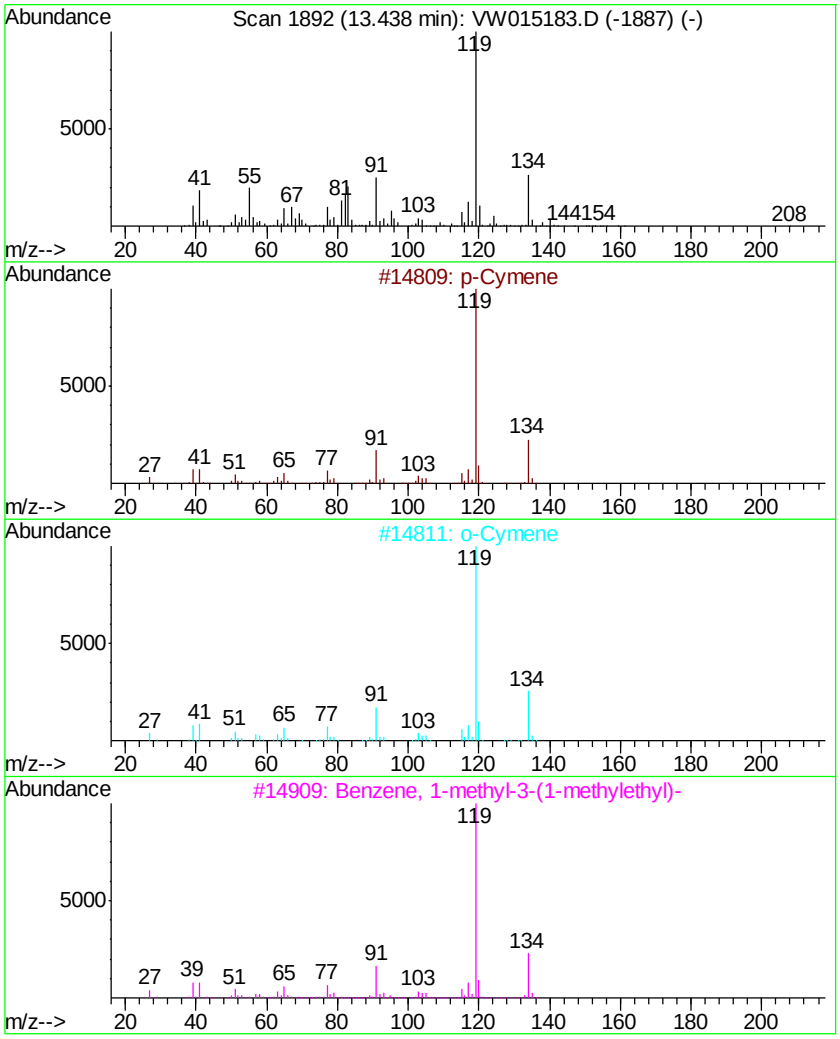
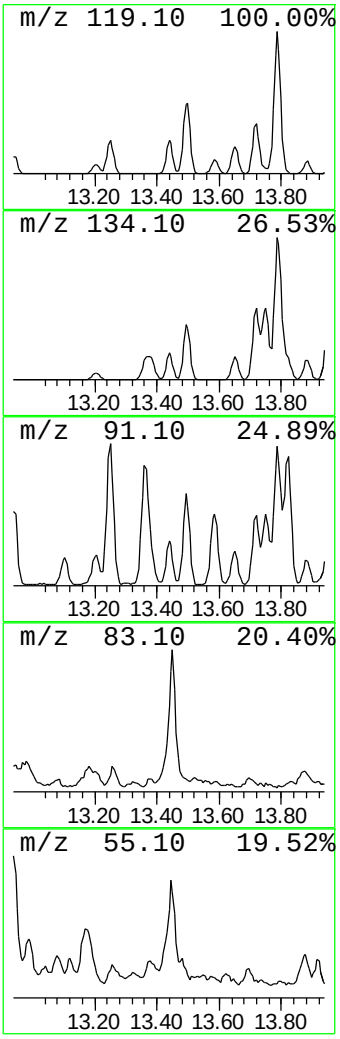
Peak Number 26 o-Cymene Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.44 | 8.88 ug/L | 1015400 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | p-Cymene | 134 | C10H14 | 000099-87-6 | 93 |
| 2 | o-Cymene | 134 | C10H14 | 000527-84-4 | 91 |
| 3 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 91 |
| 4 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 91 |
| 5 | p-Cymene | 134 | C10H14 | 000099-87-6 | 91 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

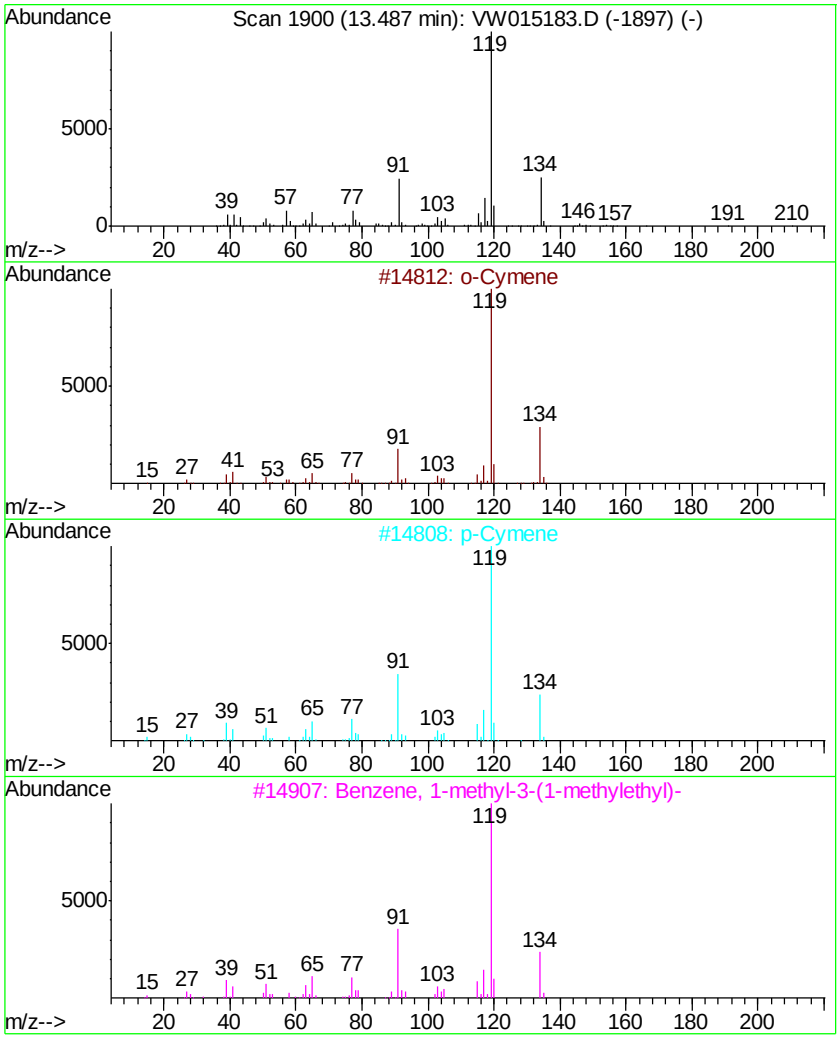
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

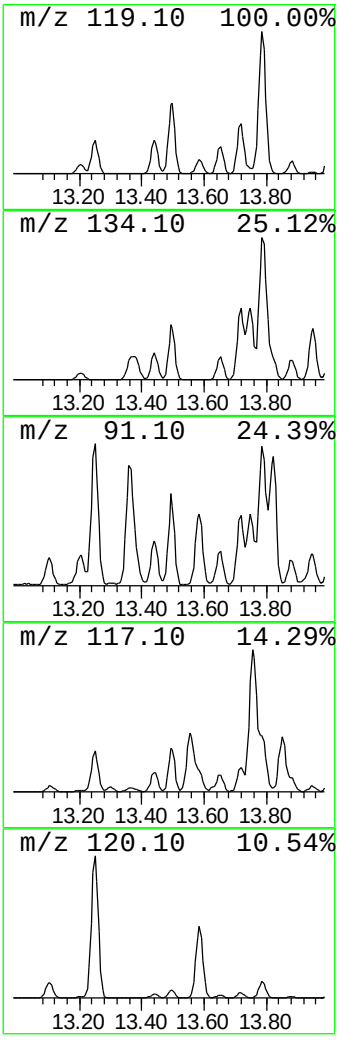
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 27 Benzene, 1-methyl-3-(1-meth... Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.49 | 9.81 ug/L | 1122530 | 1,4-Dichlorobenzene-d4 | 13.55 |

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

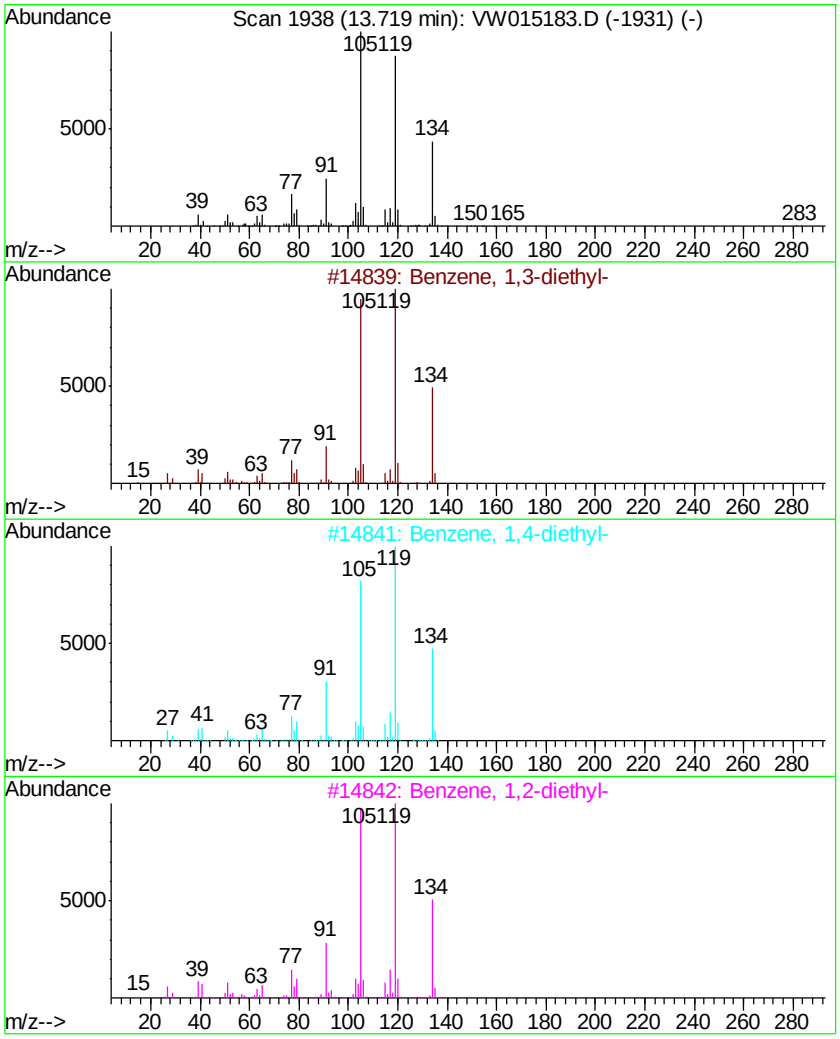
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

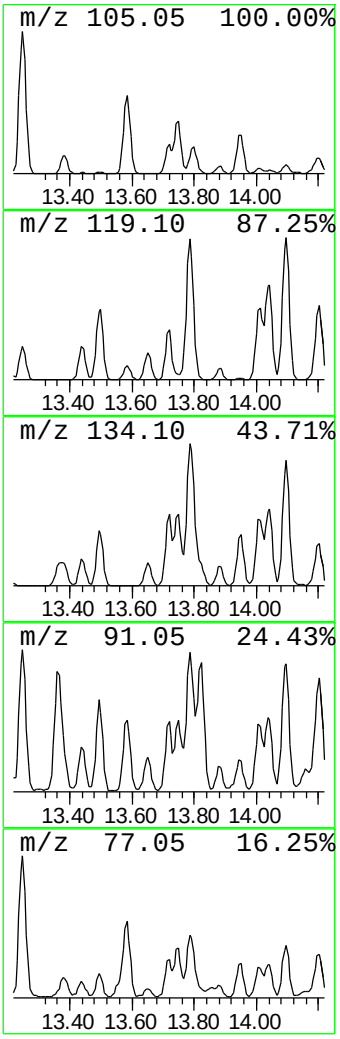
**********

Peak Number 29 Benzene, 1,3-diethyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.72 | 12.42 ug/L | 1420420 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 95 |
| 2 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 95 |
| 3 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 94 |
| 4 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 94 |
| 5 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 94 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

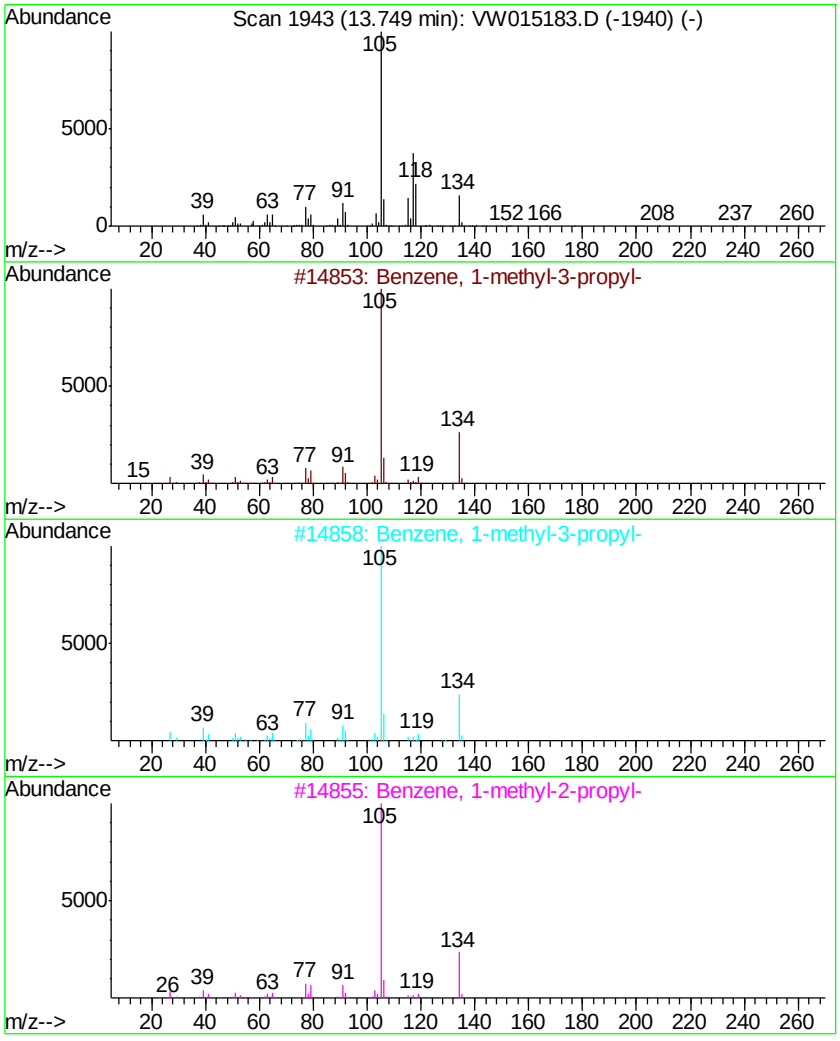
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

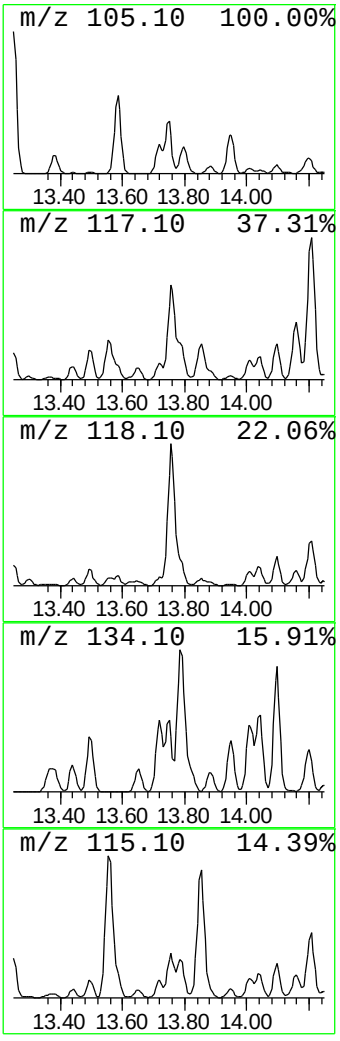
**********

Peak Number 30 Benzene, 1-methyl-3-propyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.75 | 15.98 ug/L | 1828160 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-3-propyl- | 134 | C10H14 | 001074-43-7 | 55 |
| 2 | Benzene, 1-methyl-3-propyl- | 134 | C10H14 | 001074-43-7 | 49 |
| 3 | Benzene, 1-methyl-2-propyl- | 134 | C10H14 | 001074-17-5 | 43 |
| 4 | Benzene, (1-methylpropyl)- | 134 | C10H14 | 000135-98-8 | 43 |
| 5 | Benzene, 1-methyl-3-propyl- | 134 | C10H14 | 001074-43-7 | 41 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

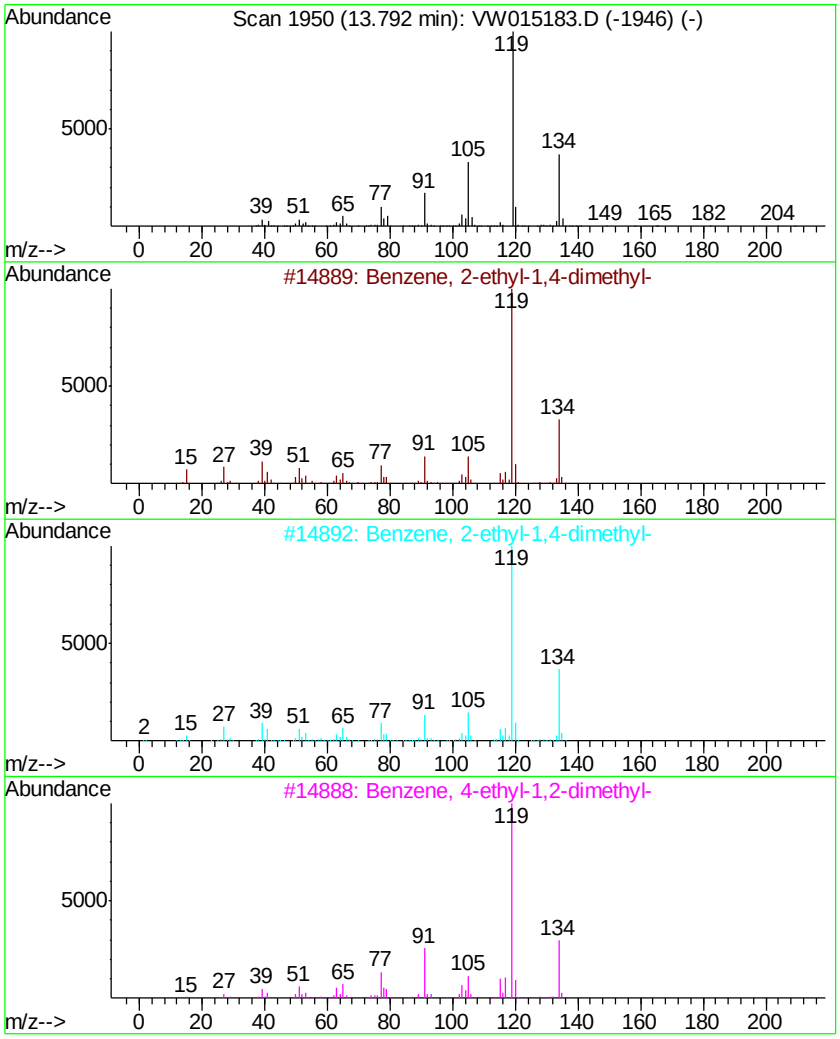
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

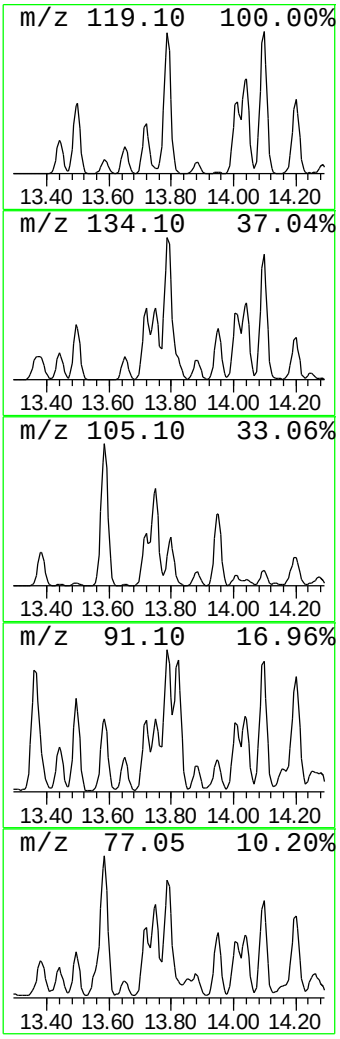
**********

Peak Number 31 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.79 | 25.10 ug/L | 2871040 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 91 |
| 2 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 91 |
| 3 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 91 |
| 4 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 91 |
| 5 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 91 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

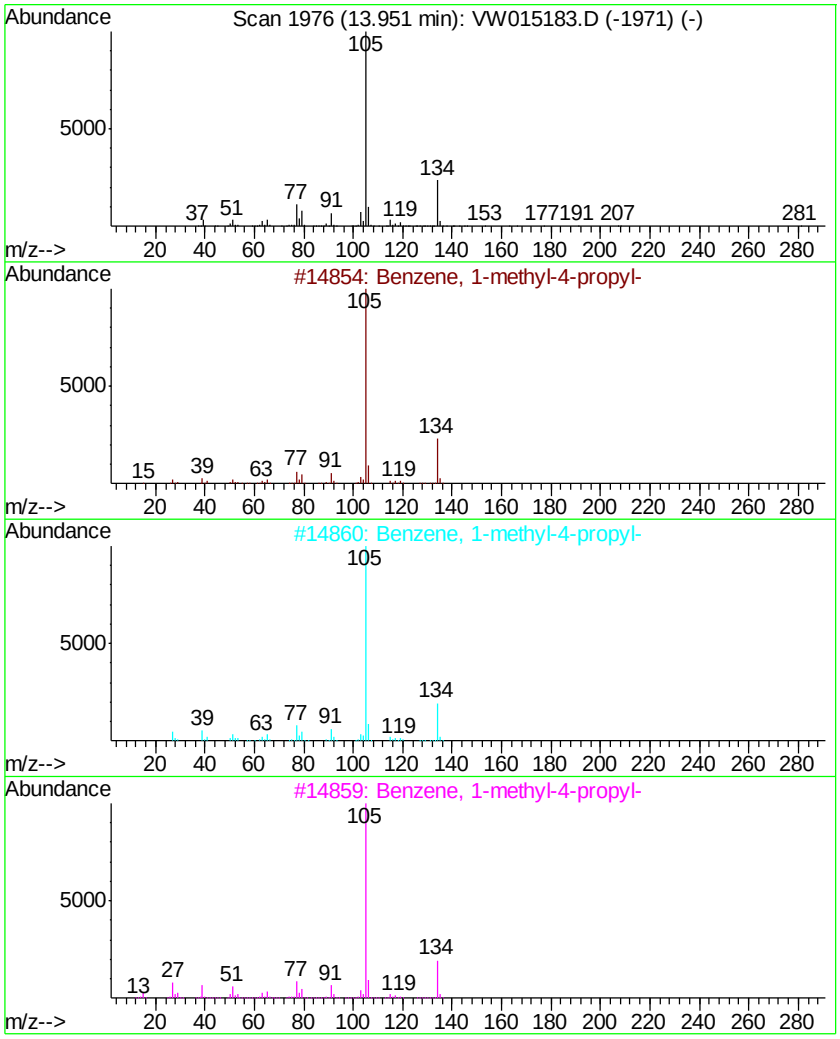
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

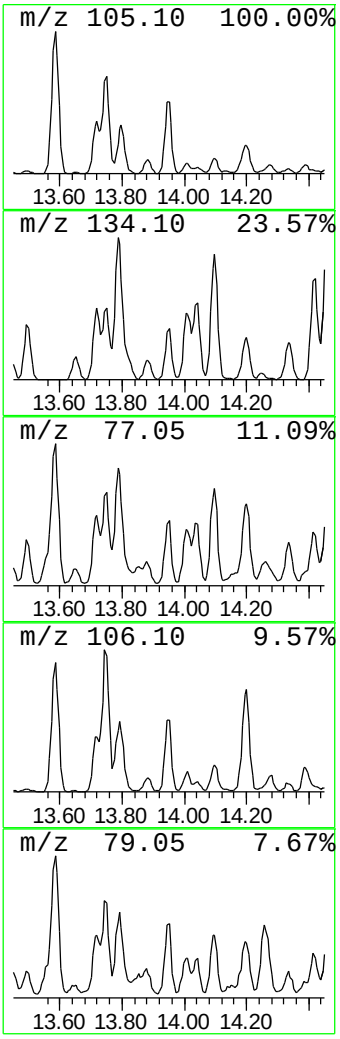
**********

Peak Number 32 Benzene, 1-methyl-4-propyl- Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.95 | 7.64 ug/L | 874255 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 91 |
| 2 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 91 |
| 3 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 91 |
| 4 | Benzene, 1-methyl-2-propyl- | 134 | C10H14 | 001074-17-5 | 91 |
| 5 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

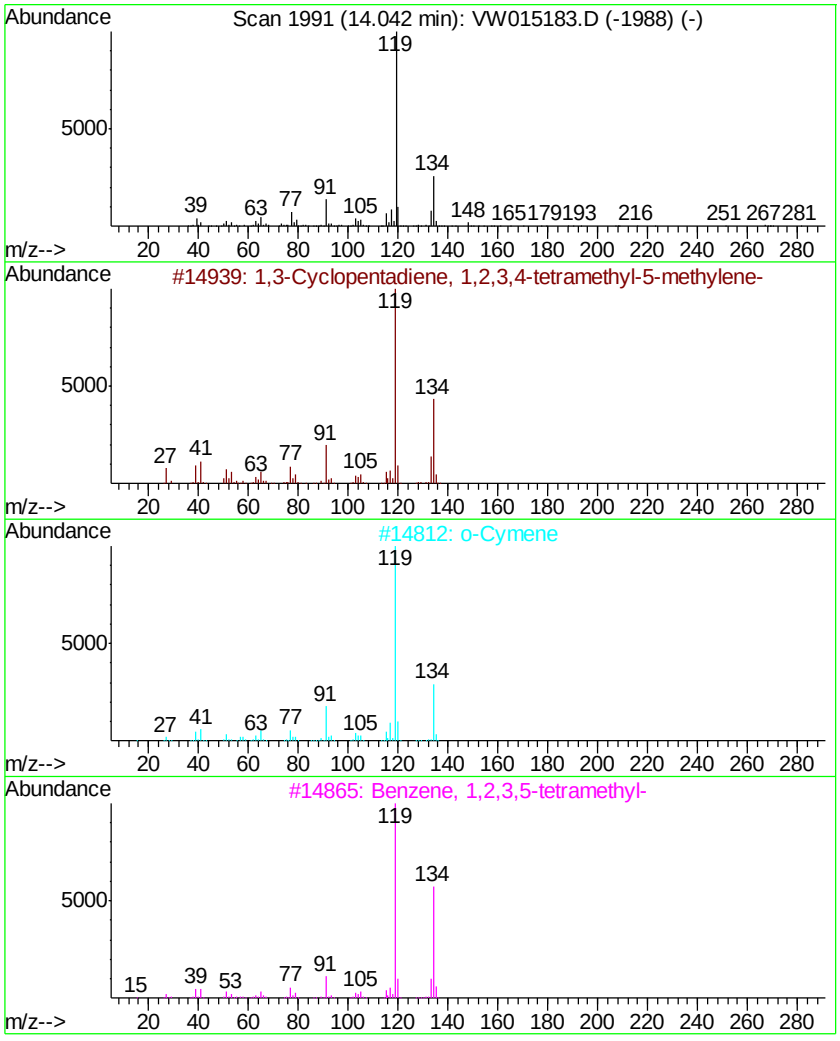
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

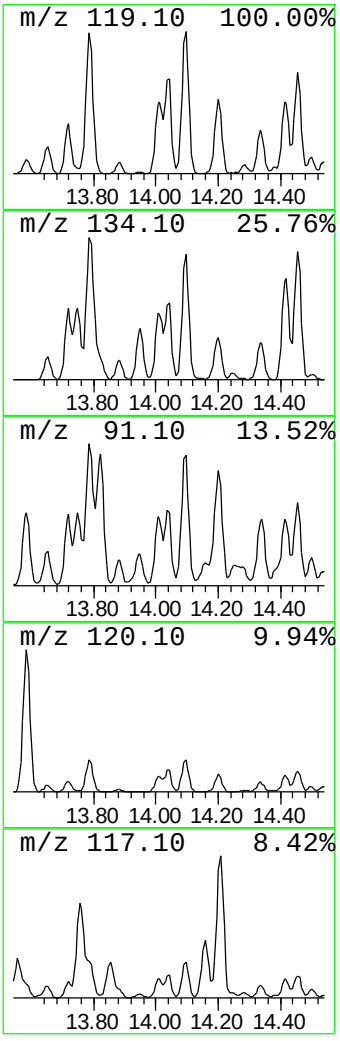
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 34 1,3-Cyclopentadiene, 1,2,3,... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.04 | 11.75 ug/L | 1344450 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Cyclopentadiene, 1,2,3,4-tet... | 134 | C10H14 | 076089-59-3 | 95 |
| 2 | o-Cymene | 134 | C10H14 | 000527-84-4 | 94 |
| 3 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 94 |
| 4 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 94 |
| 5 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 94 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

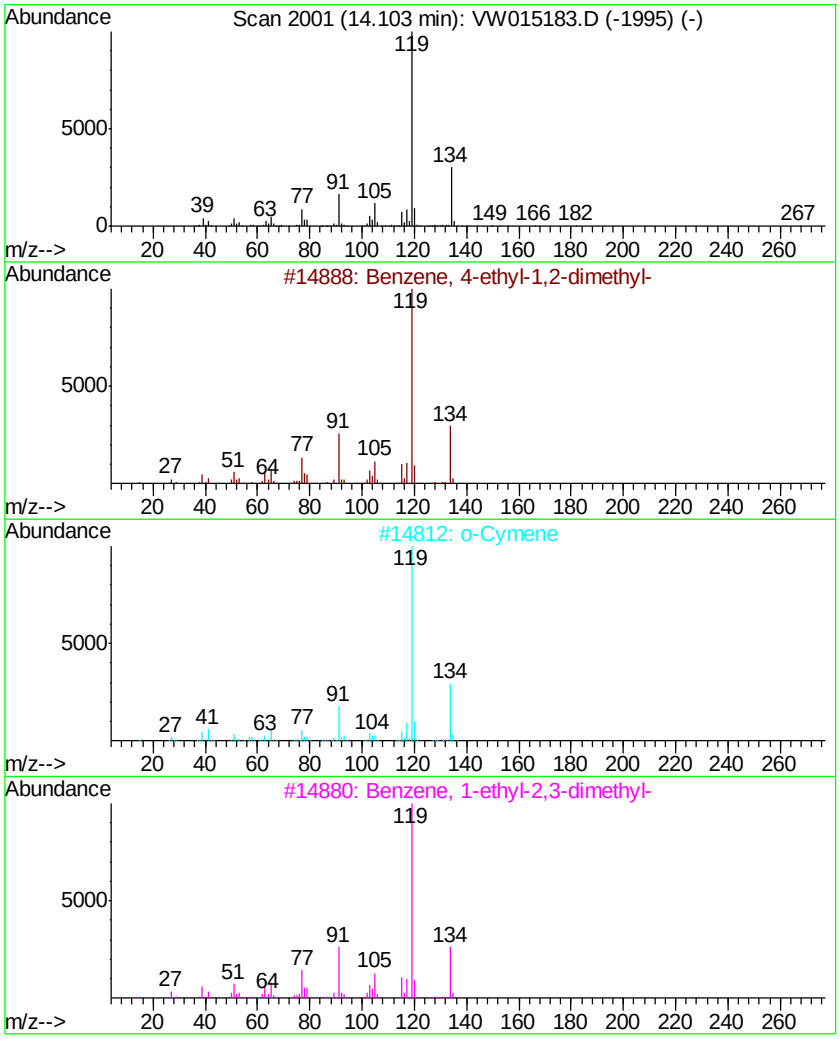
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

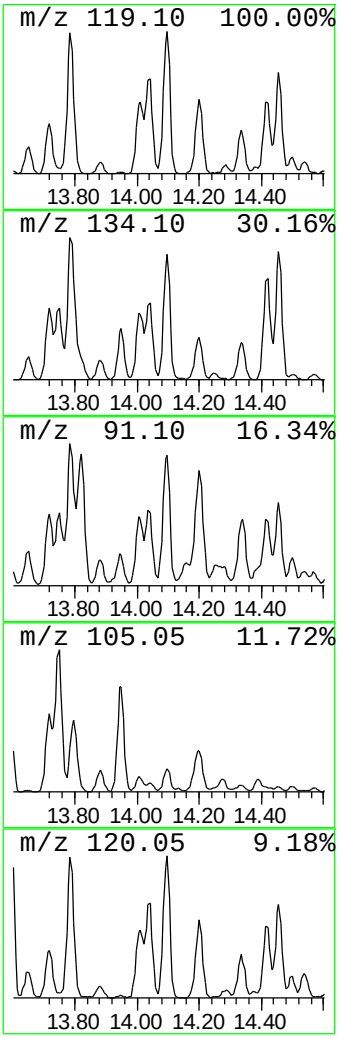
**********

Peak Number 35 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.10 | 19.10 ug/L | 2184730 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 96 |
| 2 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 3 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 95 |
| 4 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 94 |
| 5 | 1,3-Cyclopentadiene, 1,2,3,4-tet... | 134 | C10H14 | 076089-59-3 | 94 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

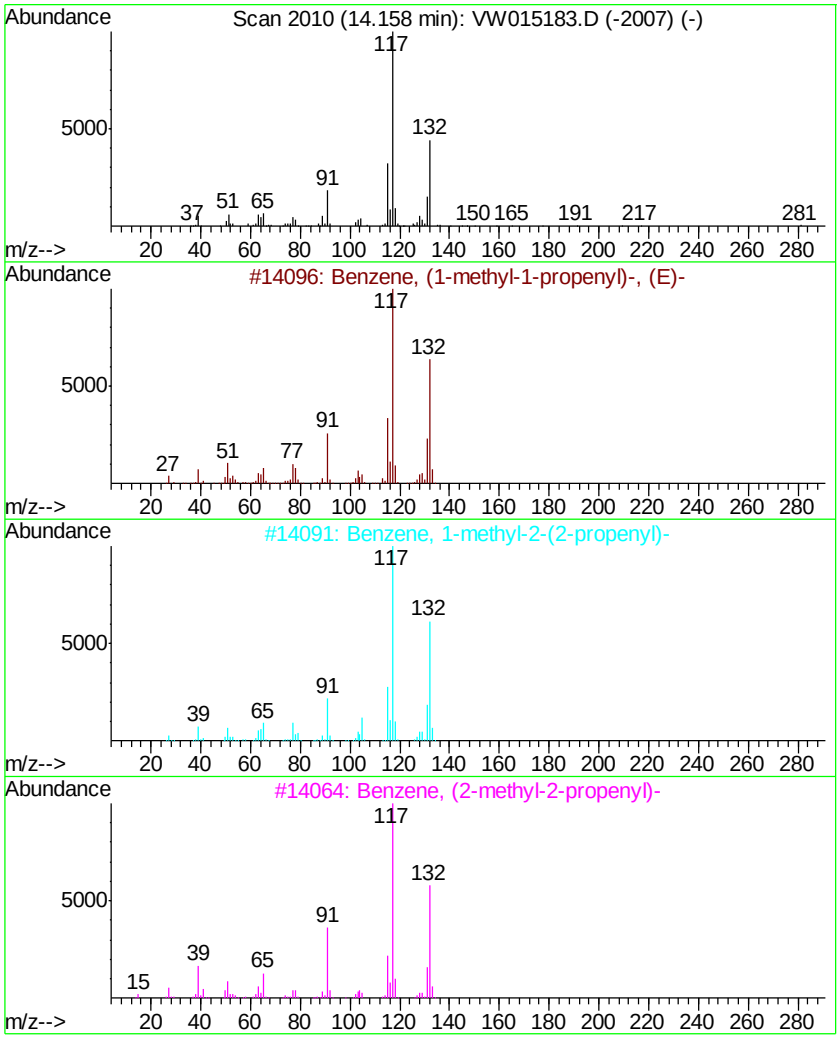
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

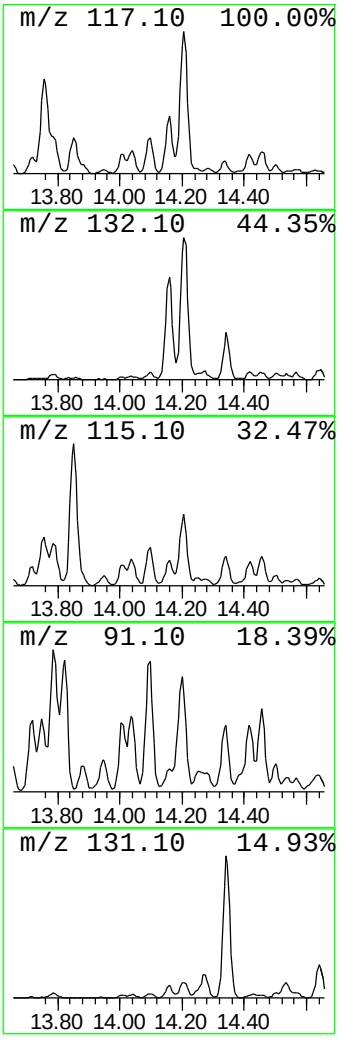
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 36 Benzene, (1-methyl-1-propen... Concentration Rank 39

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.16 | 2.44 ug/L | 279079 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000768-00-3 | 91 |
| 2 | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12 | 001587-04-8 | 91 |
| 3 | Benzene, (2-methyl-2-propenyl)- | 132 | C10H12 | 003290-53-7 | 91 |
| 4 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 91 |
| 5 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000767-99-7 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

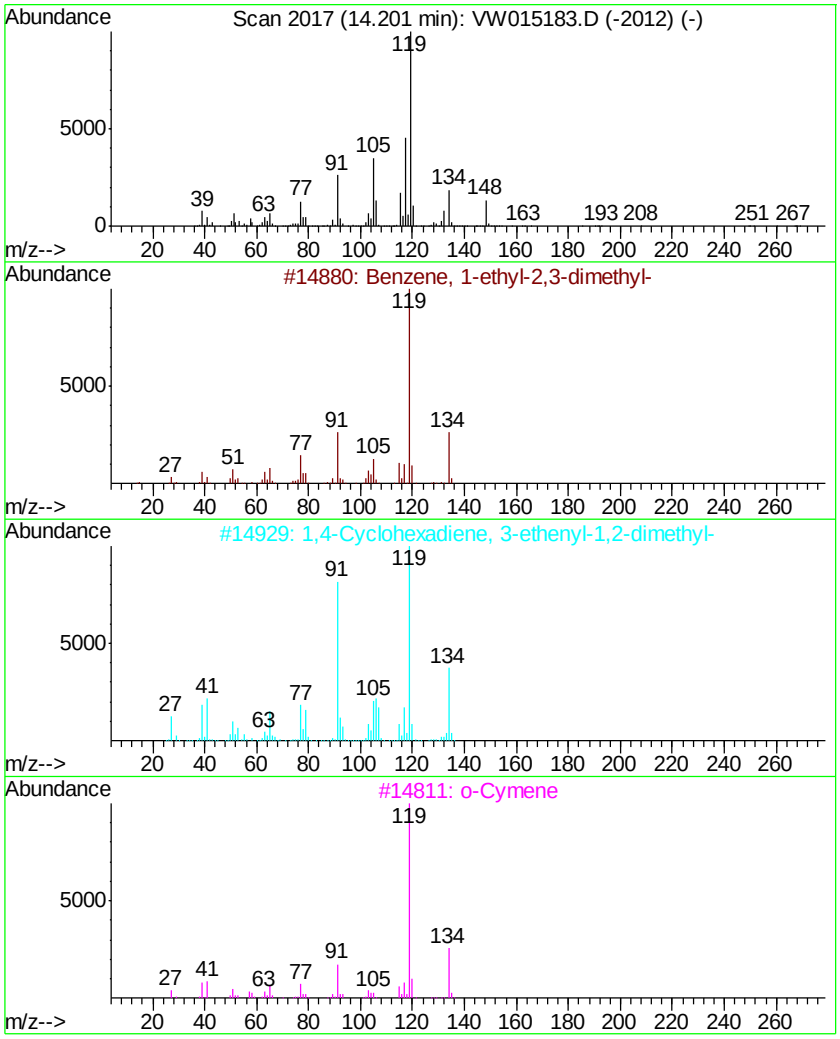
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

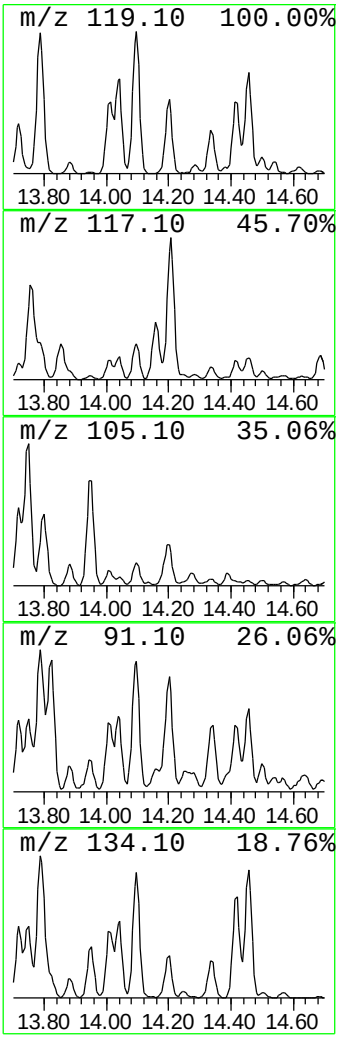
**********

Peak Number 37 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.20 | 19.16 ug/L | 2191030 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 60 |
| 2 | 1,4-Cyclohexadiene, 3-ethenyl-1,... | 134 | C10H14 | 062338-57-2 | 58 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 55 |
| 4 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 53 |
| 5 | o-Cymene | 134 | C10H14 | 000527-84-4 | 49 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

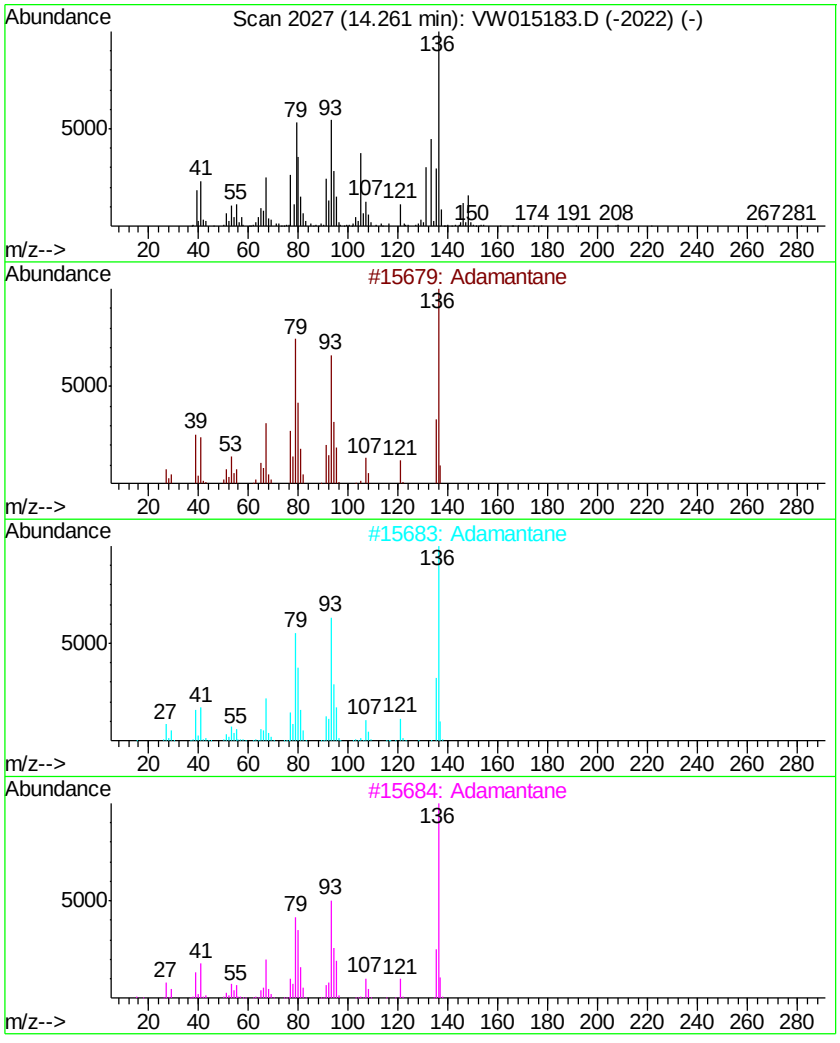
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

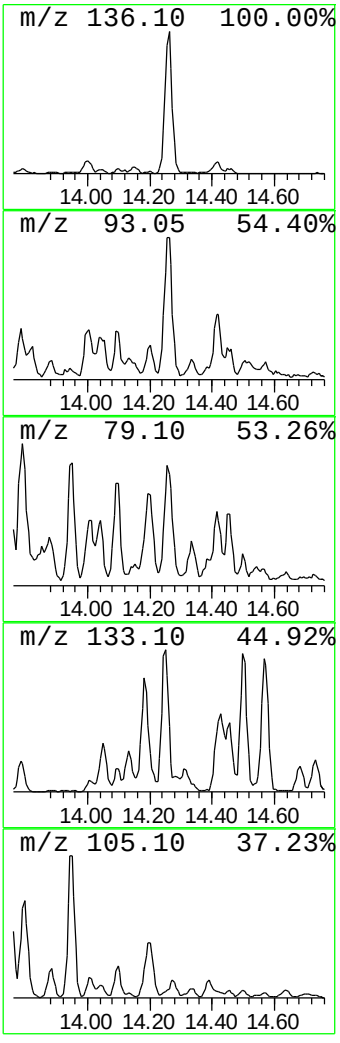
**********

Peak Number 38 Adamantane Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.26 | 6.95 ug/L | 795439 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Adamantane | 136 | C10H16 | 000281-23-2 | 96 |
| 2 | Adamantane | 136 | C10H16 | 000281-23-2 | 96 |
| 3 | Adamantane | 136 | C10H16 | 000281-23-2 | 70 |
| 4 | Tricyclo[4.4.0.0(2,8)]decane | 136 | C10H16 | 049700-59-6 | 43 |
| 5 | Bicyclo[3.3.1]non-2-en-9-one | 136 | C9H12O | 004844-11-5 | 38 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

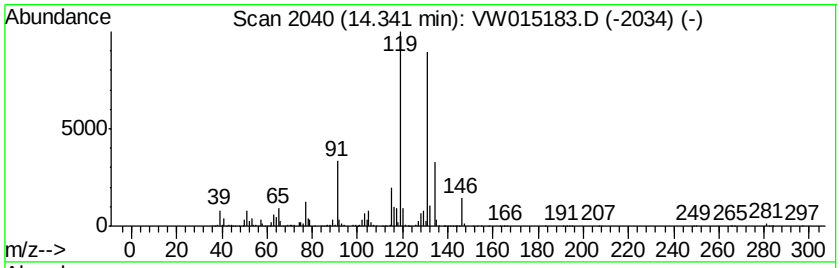
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

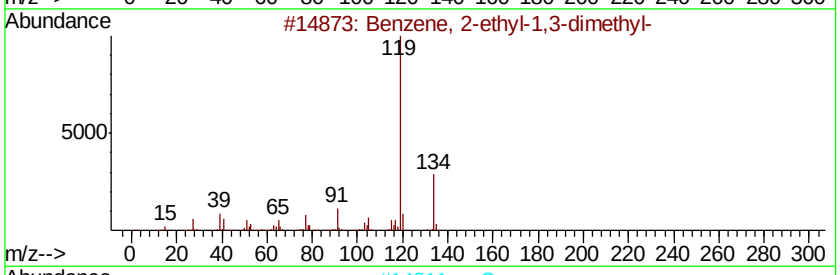
**********

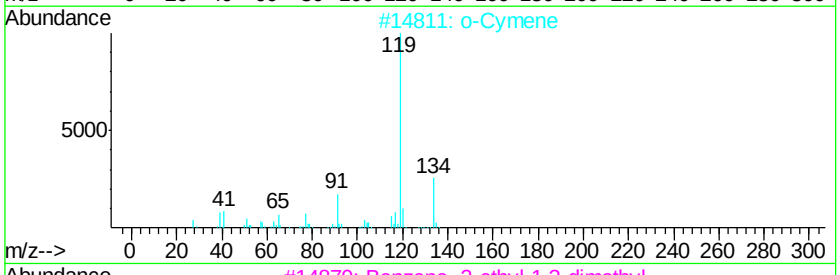
Peak Number 39 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 17

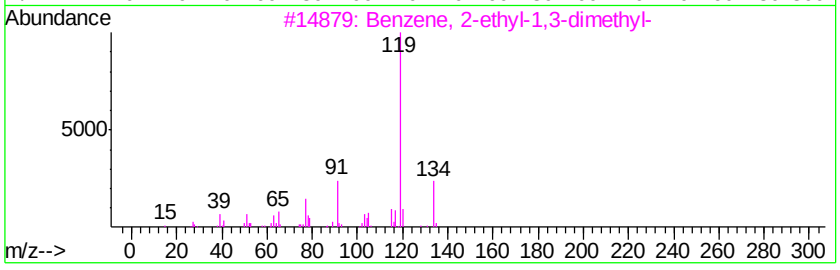
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.34 | 10.16 ug/L | 1162460 | 1,4-Dichlorobenzene-d4 | 13.55 |

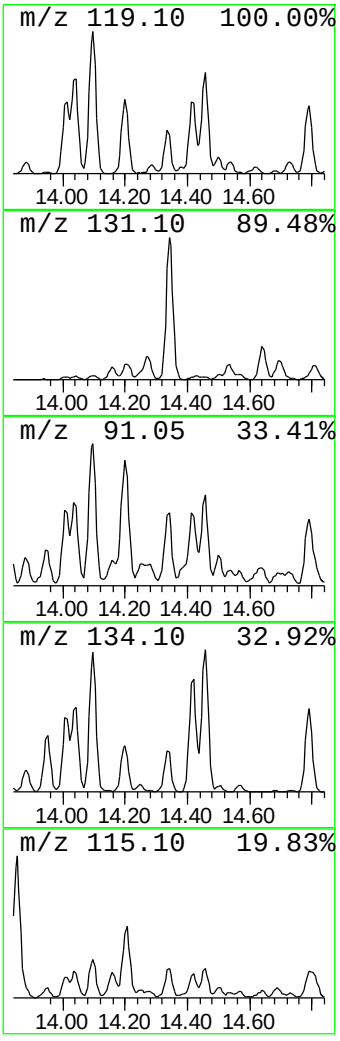
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 86 |
| 2 | o-Cymene | 134 | C10H14 | 000527-84-4 | 50 |
| 3 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 50 |
| 4 | 1H-Indene, 2,3-dihydro-1,1-dimet... | 146 | C11H14 | 004912-92-9 | 50 |
| 5 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 50 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

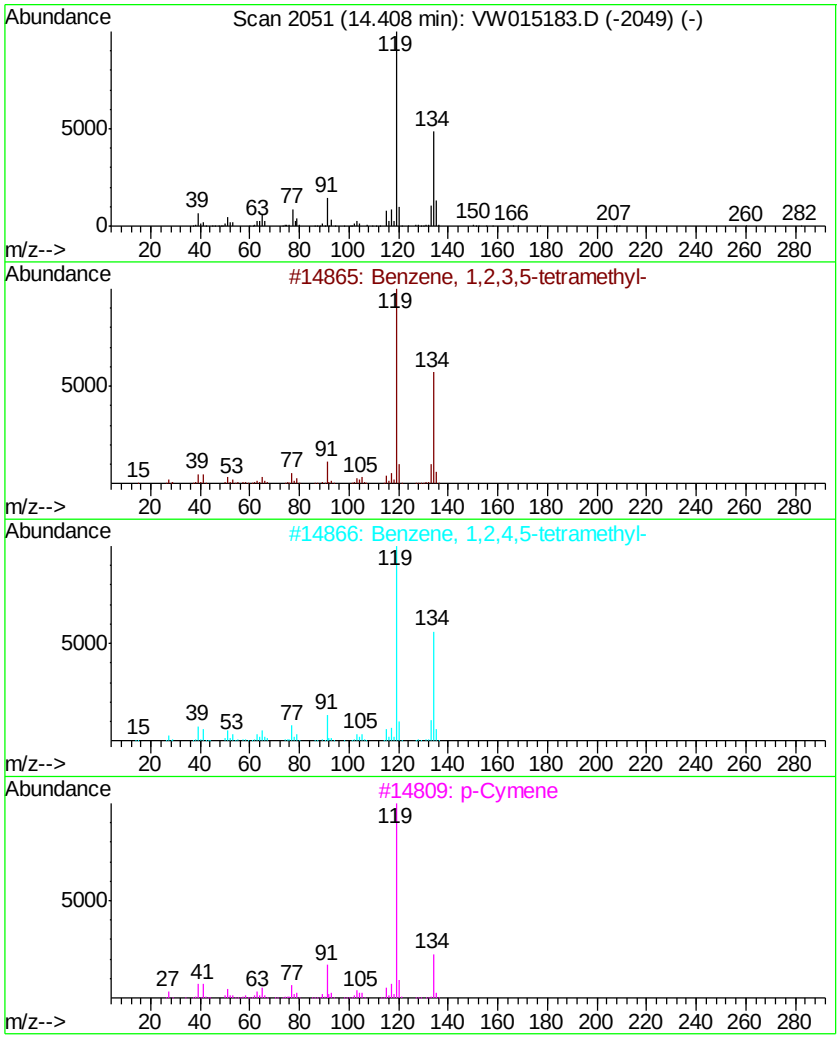
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

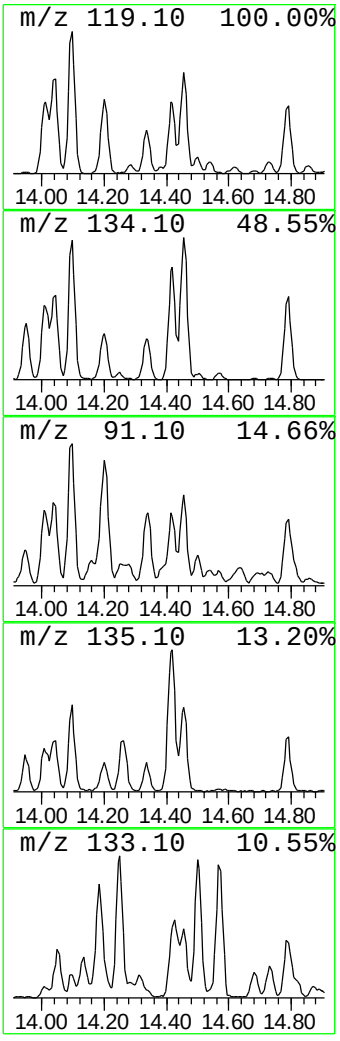
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 40 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.41 | 10.29 ug/L | 1176600 | 1,4-Dichlorobenzene-d4 | 13.55 |

| 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 | p-Cymene | 134 | C10H14 | 000099-87-6 | 91 |
| 4 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 91 |
| 5 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

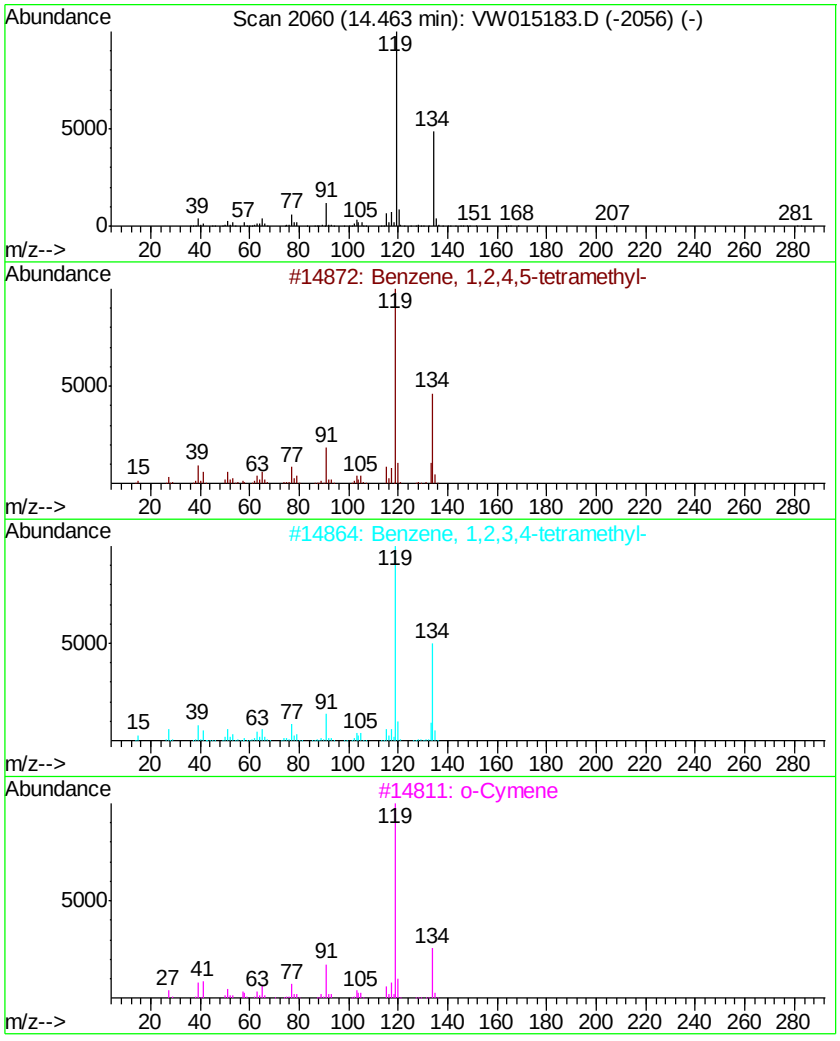
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

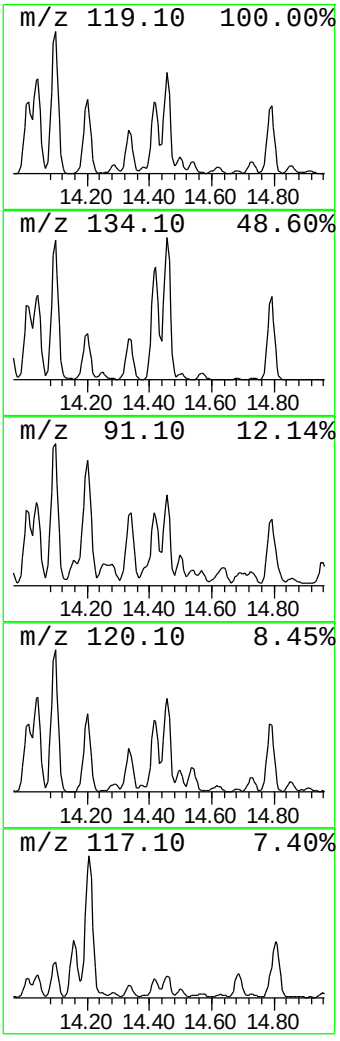
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 41 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.46 | 11.53 ug/L | 1318270 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 94 |
| 2 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 94 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 94 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 91 |
| 5 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

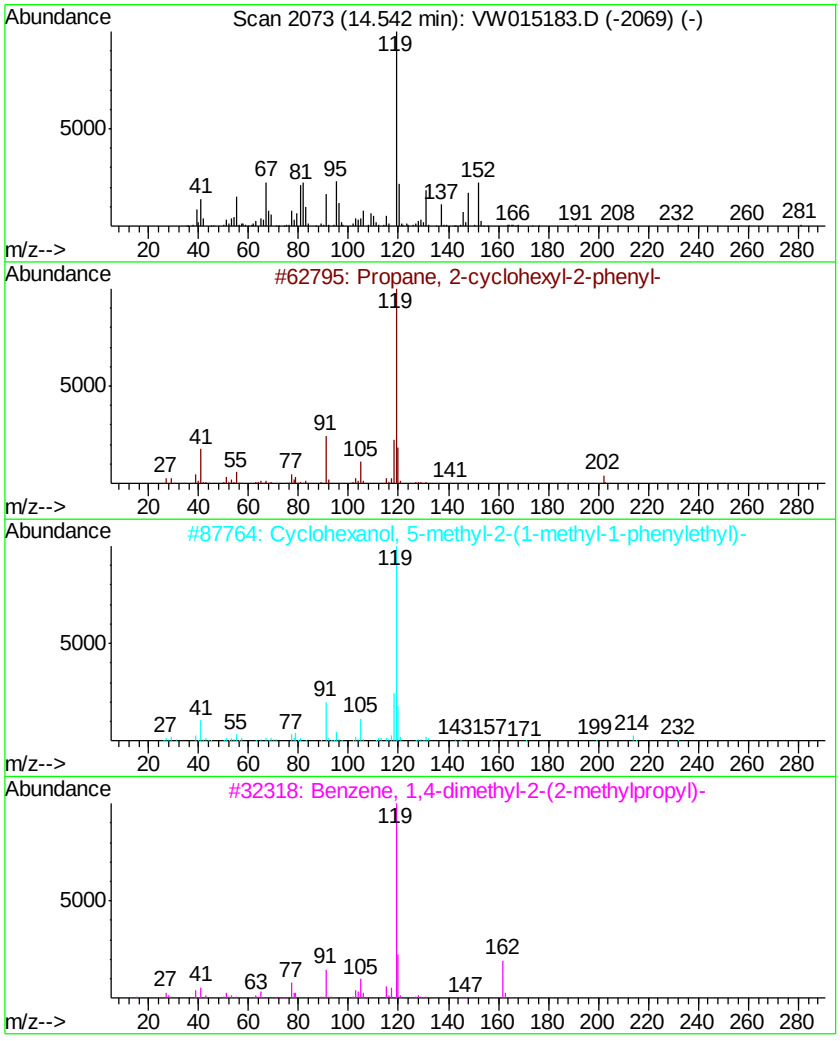
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

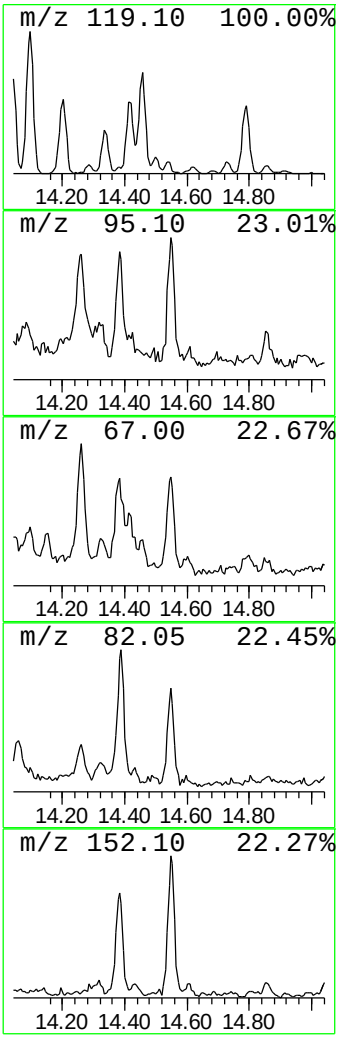
**********

Peak Number 43 unknown-01 Concentration Rank 49

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.54 | 1.57 ug/L | 179720 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propane, 2-cyclohexyl-2-phenyl- | 202 | C15H22 | 025683-97-0 | 35 |
| 2 | Cyclohexanol, 5-methyl-2-(1-meth... | 232 | C16H24O | 134256-18-1 | 35 |
| 3 | Benzene, 1,4-dimethyl-2-(2-methy... | 162 | C12H18 | 055669-88-0 | 35 |
| 4 | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16 | 001595-16-0 | 30 |
| 5 | 4'-Methylpropiophenone | 148 | C10H12O | 005337-93-9 | 27 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

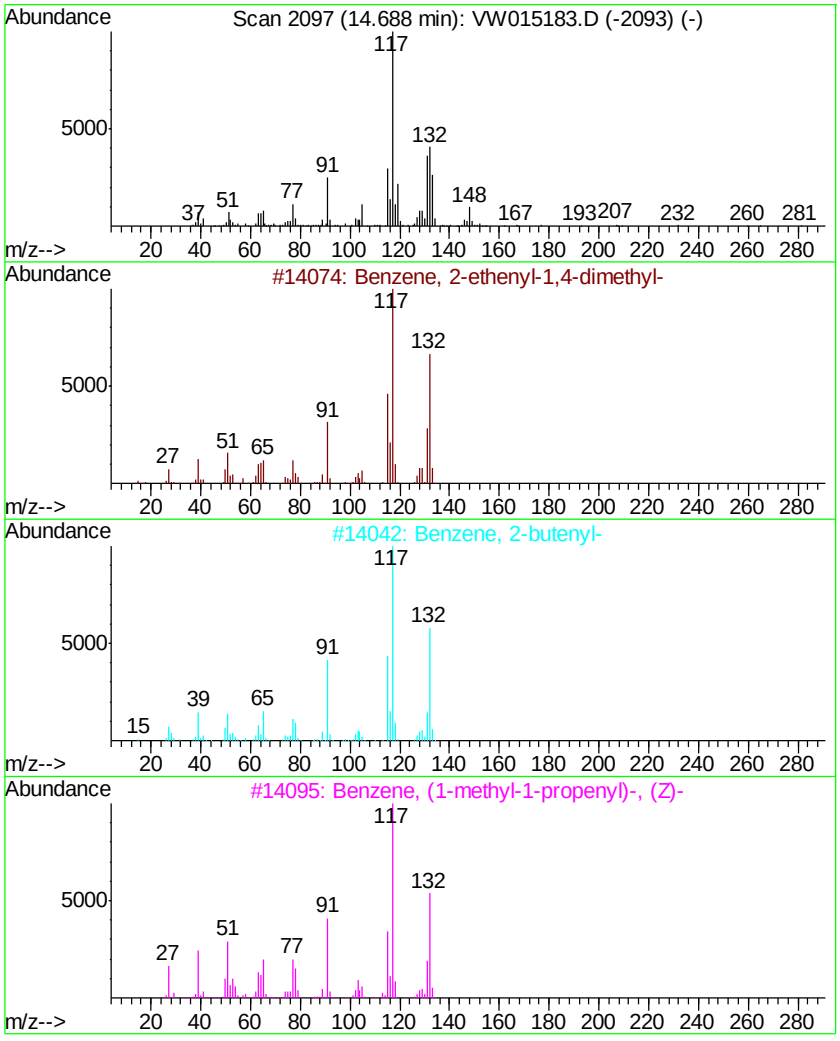
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

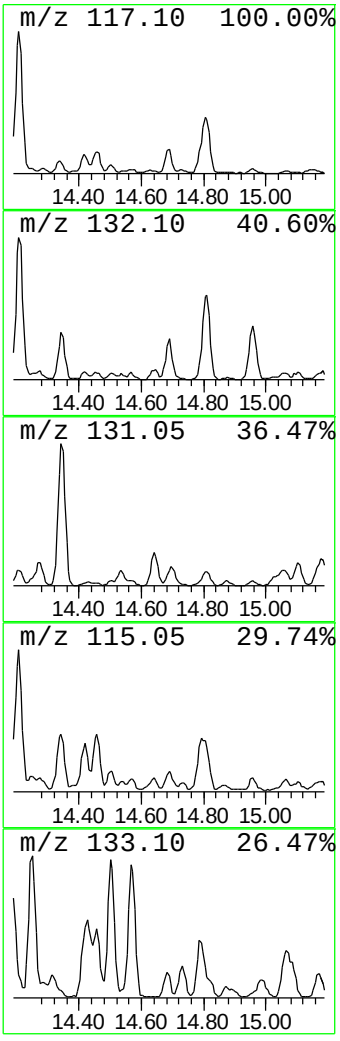
**********

Peak Number 44 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 42

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.69 | 1.98 ug/L | 226525 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 87 |
| 2 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 76 |
| 3 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000767-99-7 | 76 |
| 4 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 70 |
| 5 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 70 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

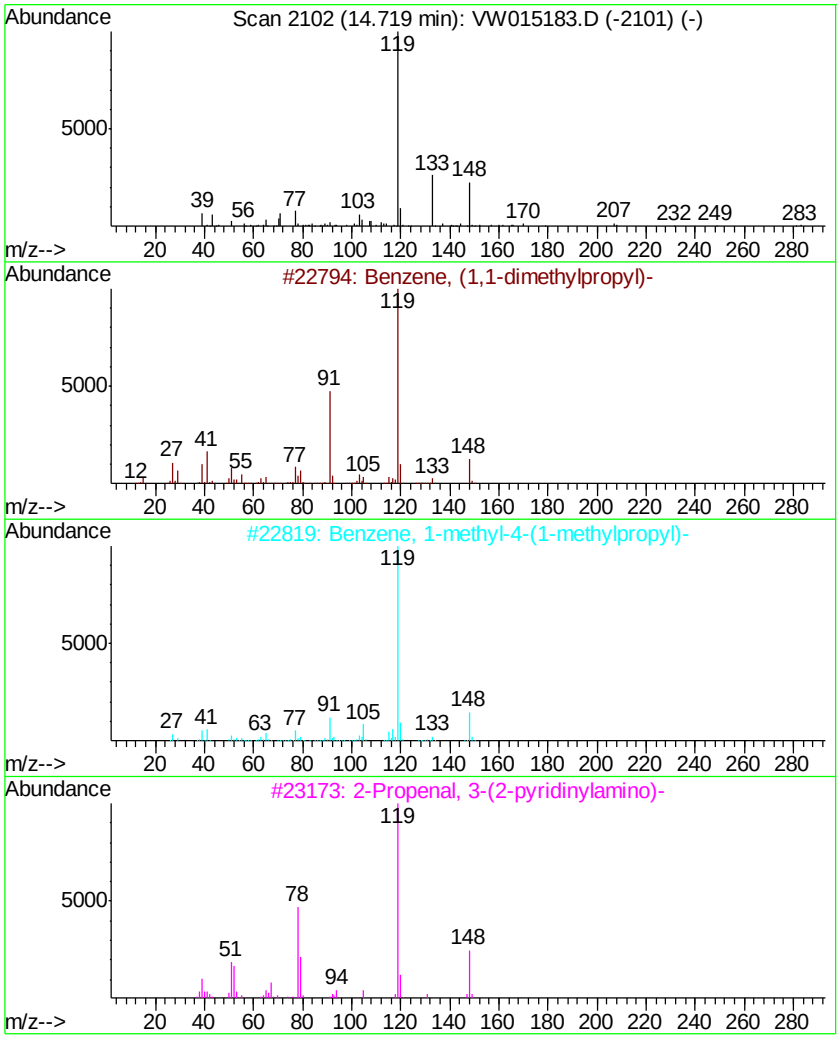
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

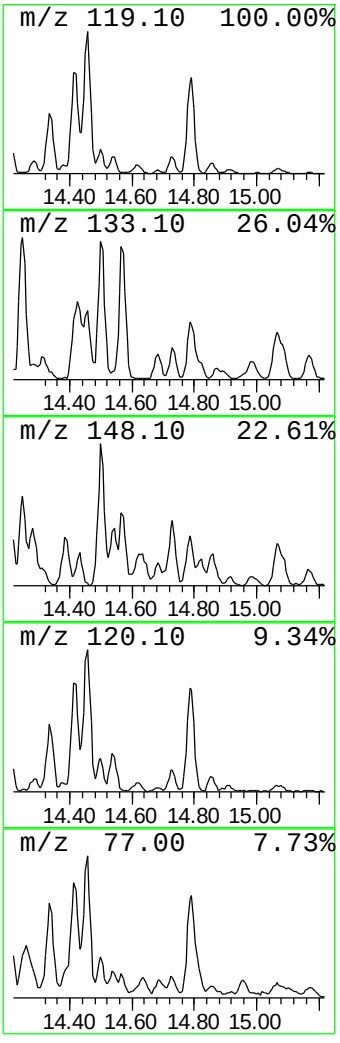
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 45 Benzene, (1,1-dimethylpropyl)- Concentration Rank 43

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.72 | 1.86 ug/L | 212368 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1,1-dimethylpropyl)- | 148 | C11H16 | 002049-95-8 | 64 |
| 2 | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16 | 001595-16-0 | 59 |
| 3 | 2-Propenal, 3-(2-pyridinylamino)- | 148 | C8H8N2O | 068970-82-1 | 53 |
| 4 | 2,4-Diphenyl-4-methyl-1-pentene | 236 | C18H20 | 1000111-58-0 | 50 |
| 5 | Benzene, 1,1'-(1,1,2,2-tetrameth... | 238 | C18H22 | 001889-67-4 | 50 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

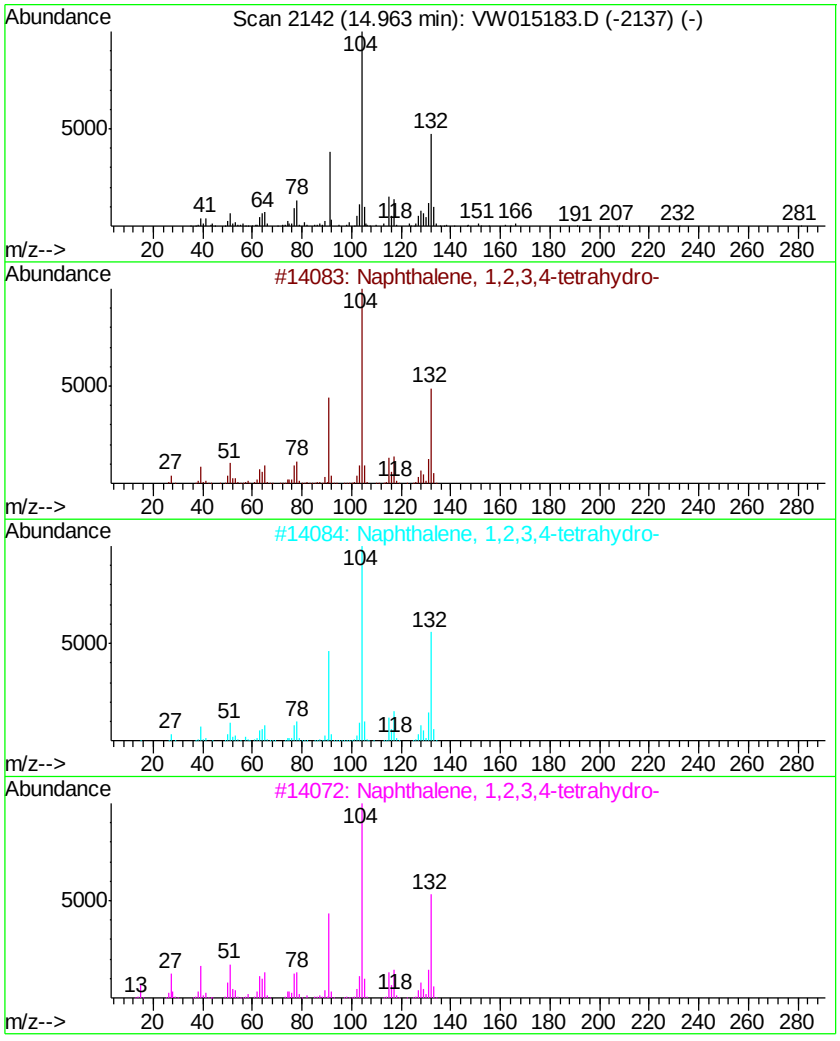
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

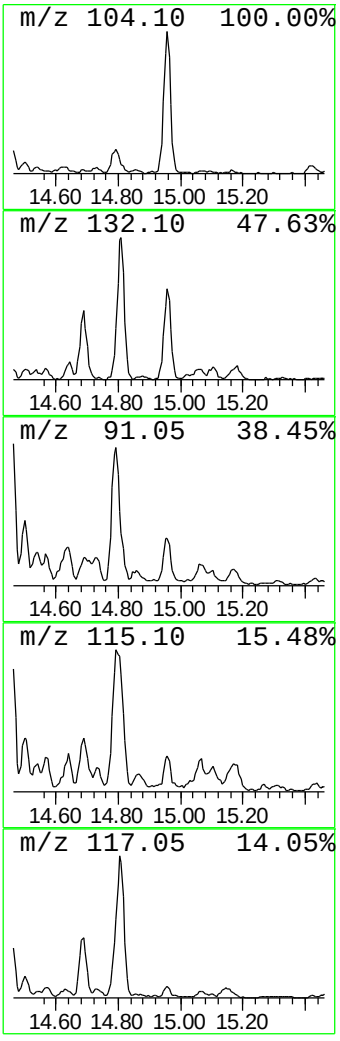
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 47 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 46

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.96 | 1.82 ug/L | 207776 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12 | 000119-64-2 | 97 |
| 2 | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12 | 000119-64-2 | 96 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12 | 000119-64-2 | 95 |
| 4 | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12 | 000119-64-2 | 87 |
| 5 | Isoquinoline, 1,2,3,4-tetrahydro... | 147 | C10H13N | 029726-60-1 | 56 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

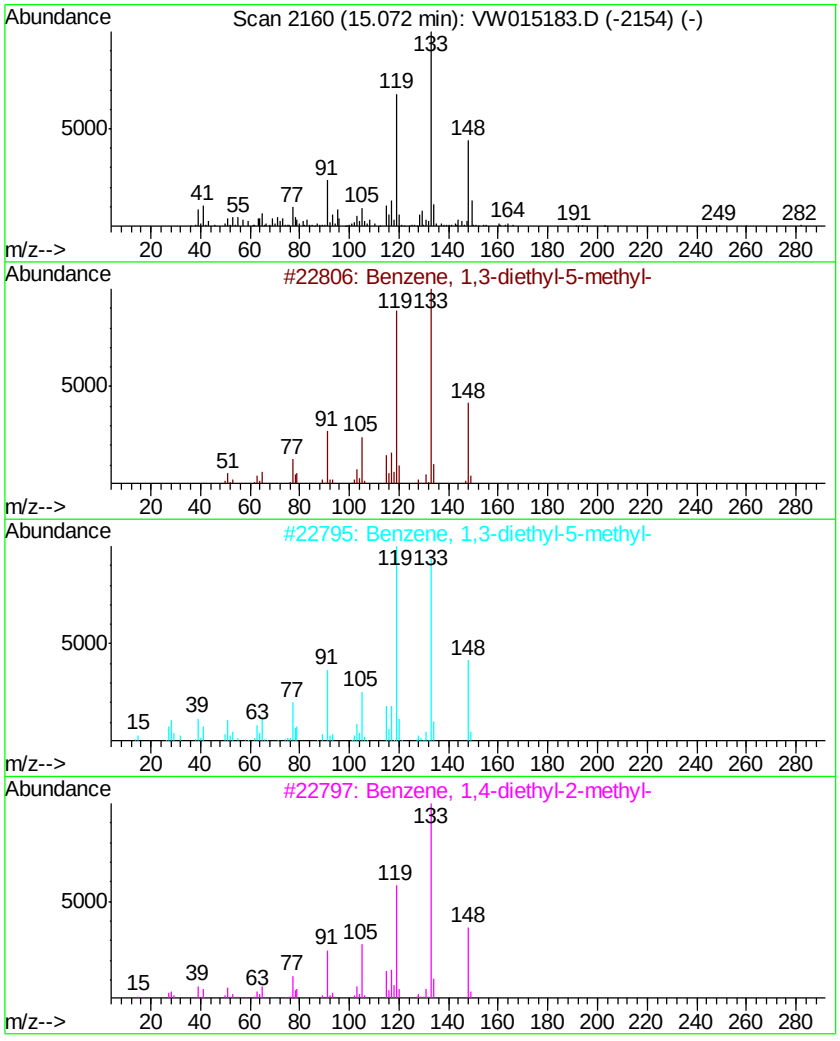
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

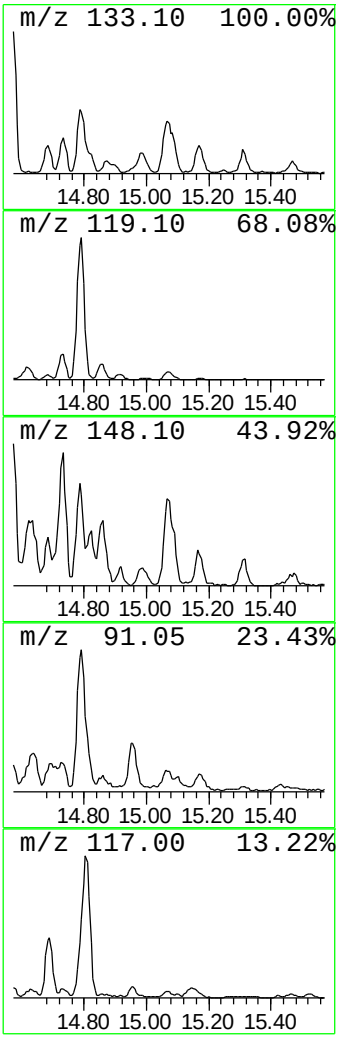
**********

Peak Number 48 Benzene, 1,3-diethyl-5-methyl- Concentration Rank 45

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.07 | 1.83 ug/L | 209768 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3-diethyl-5-methyl- | 148 | C11H16 | 002050-24-0 | 81 |
| 2 | Benzene, 1,3-diethyl-5-methyl- | 148 | C11H16 | 002050-24-0 | 81 |
| 3 | Benzene, 1,4-diethyl-2-methyl- | 148 | C11H16 | 013632-94-5 | 74 |
| 4 | Benzene, 2,4-diethyl-1-methyl- | 148 | C11H16 | 001758-85-6 | 74 |
| 5 | 6-Methyl-4-indanol | 148 | C10H12O | 020294-32-0 | 64 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041020\
Data File : VW015183.D
Acq On : 10 Apr 2020 17:00
Operator : SY/VA
Sample : L2176-08
Misc : 5.39G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG2J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| (DEL) Alkane: Cyc... | 9.60 | 1.9 | ug/L | 210441 | 1 | 8.84 | 2849710 | 25.0 |
| (DEL) Alkane: Cyc... | 9.75 | 2.3 | ug/L | 262414 | 1 | 8.84 | 2849710 | 25.0 |
| (DEL) Alkane: Str... | 9.96 | 2.9 | ug/L | 326787 | 1 | 8.84 | 2849710 | 25.0 |
| Butanoic acid, 2-... | 10.09 | 5.1 | ug/L | 578986 | 1 | 8.84 | 2849710 | 25.0 |
| (DEL) Alkane: Cyc... | 10.49 | 5.0 | ug/L | 628824 | 2 | 11.63 | 3121930 | 25.0 |
| (DEL) Alkane: Cyc... | 10.66 | 8.8 | ug/L | 1098350 | 2 | 11.63 | 3121930 | 25.0 |
| (DEL) Alkane: Cyc... | 10.76 | 4.4 | ug/L | 553010 | 2 | 11.63 | 3121930 | 25.0 |
| (DEL) Alkane: Cyc... | 11.15 | 1.7 | ug/L | 215954 | 2 | 11.63 | 3121930 | 25.0 |
| (DEL) Alkane: Cyc... | 11.18 | 6.0 | ug/L | 744369 | 2 | 11.63 | 3121930 | 25.0 |
| (DEL) Alkane: Cyc... | 11.23 | 8.2 | ug/L | 1019630 | 2 | 11.63 | 3121930 | 25.0 |
| (DEL) Alkane: Cyc... | 11.28 | 1.6 | ug/L | 200121 | 2 | 11.63 | 3121930 | 25.0 |
| (DEL) Alkane: Cyc... | 11.43 | 6.6 | ug/L | 825969 | 2 | 11.63 | 3121930 | 25.0 |
| Cyclohexene, 1-me... | 12.04 | 6.0 | ug/L | 745149 | 2 | 11.63 | 3121930 | 25.0 |
| (DEL) Alkane: Cyc... | 12.30 | 5.5 | ug/L | 691977 | 2 | 11.63 | 3121930 | 25.0 |
| Bicyclo[3.3.1]nonane | 12.34 | 20.2 | ug/L | 2525460 | 2 | 11.63 | 3121930 | 25.0 |
| 4,5-Nonadiene, 2-... | 12.56 | 5.9 | ug/L | 738004 | 2 | 11.63 | 3121930 | 25.0 |
| 1H-Indene, octahy... | 12.79 | 10.8 | ug/L | 1233210 | 3 | 13.55 | 2859530 | 25.0 |
| Benzene, 1-ethyl-... | 12.87 | 18.3 | ug/L | 2098030 | 3 | 13.55 | 2859530 | 25.0 |
| Benzene, 1,2,3-tr... | 12.94 | 28.0 | ug/L | 3205270 | 3 | 13.55 | 2859530 | 25.0 |
| Benzene, 1-ethyl-... | 13.10 | 7.5 | ug/L | 860680 | 3 | 13.55 | 2859530 | 25.0 |
| 1H-Indene, octahy... | 13.18 | 11.5 | ug/L | 1317510 | 3 | 13.55 | 2859530 | 25.0 |
| Mesitylene | 13.25 | 41.0 | ug/L | 4685960 | 3 | 13.55 | 2859530 | 25.0 |
| 2-Tolyloxirane | 13.38 | 6.5 | ug/L | 737222 | 3 | 13.55 | 2859530 | 25.0 |
| o-Cymene | 13.44 | 8.9 | ug/L | 1015400 | 3 | 13.55 | 2859530 | 25.0 |
| Benzene, 1-methyl... | 13.49 | 9.8 | ug/L | 1122530 | 3 | 13.55 | 2859530 | 25.0 |
| Benzene, 1,3-diet... | 13.72 | 12.4 | ug/L | 1420420 | 3 | 13.55 | 2859530 | 25.0 |
| Benzene, 1-methyl... | 13.75 | 16.0 | ug/L | 1828160 | 3 | 13.55 | 2859530 | 25.0 |
| Benzene, 2-ethyl-... | 13.79 | 25.1 | ug/L | 2871040 | 3 | 13.55 | 2859530 | 25.0 |
| Benzene, 1-methyl... | 13.95 | 7.6 | ug/L | 874255 | 3 | 13.55 | 2859530 | 25.0 |
| 1,3-Cyclopentadie... | 14.04 | 11.8 | ug/L | 1344450 | 3 | 13.55 | 2859530 | 25.0 |
| Benzene, 4-ethyl-... | 14.10 | 19.1 | ug/L | 2184730 | 3 | 13.55 | 2859530 | 25.0 |
| Benzene, (1-methy... | 14.16 | 2.4 | ug/L | 279079 | 3 | 13.55 | 2859530 | 25.0 |
| Benzene, 1-ethyl-... | 14.20 | 19.2 | ug/L | 2191030 | 3 | 13.55 | 2859530 | 25.0 |
| Adamantane | 14.26 | 7.0 | ug/L | 795439 | 3 | 13.55 | 2859530 | 25.0 |
| Benzene, 2-ethyl-... | 14.34 | 10.2 | ug/L | 1162460 | 3 | 13.55 | 2859530 | 25.0 |
| Benzene, 1,2,3,5-... | 14.41 | 10.3 | ug/L | 1176600 | 3 | 13.55 | 2859530 | 25.0 |
| Benzene, 1,2,4,5-... | 14.46 | 11.5 | ug/L | 1318270 | 3 | 13.55 | 2859530 | 25.0 |
| unknown-01 | 14.54 | 1.6 | ug/L | 179720 | 3 | 13.55 | 2859530 | 25.0 |
| Benzene, 2-etheny... | 14.69 | 2.0 | ug/L | 226525 | 3 | 13.55 | 2859530 | 25.0 |
| Benzene, (1,1-dim... | 14.72 | 1.9 | ug/L | 212368 | 3 | 13.55 | 2859530 | 25.0 |
| Naphthalene, 1,2,... | 14.96 | 1.8 | ug/L | 207776 | 3 | 13.55 | 2859530 | 25.0 |
| Benzene, 1,3-diet... | 15.07 | 1.8 | ug/L | 209768 | 3 | 13.55 | 2859530 | 25.0 |