LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041020\
Data File : VX015620.D
Acq On : 10 Apr 2020 14:48
Operator : JC/SP
Sample : L2210-01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** 400408742.3-VOA

Integration Parameters: RTEINT3.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_X\METHOD\624X032520W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.417 | 245 | 251 | 261 | rVB2 | 386148 | 704045 | 2.30% | 0.877% |
| 2 | 3.008 | 338 | 348 | 363 | rBV | 13819276 | 30603156 | 100.00% | 38.107% |
| 3 | 4.654 | 601 | 618 | 632 | rBV | 7057366 | 22727605 | 74.27% | 28.300% |
| 4 | 4.984 | 661 | 672 | 680 | rBV | 423037 | 1239097 | 4.05% | 1.543% |
| 5 | 5.093 | 680 | 690 | 707 | rVB | 1997625 | 5997550 | 19.60% | 7.468% |
| 6 | 6.032 | 835 | 844 | 854 | rBV | 452164 | 1201614 | 3.93% | 1.496% |
| 7 | 6.307 | 883 | 889 | 901 | rVB | 270944 | 731962 | 2.39% | 0.911% |
| 8 | 6.831 | 963 | 975 | 989 | rBV | 1004250 | 2433319 | 7.95% | 3.030% |
| 9 | 8.696 | 1274 | 1281 | 1288 | rBV | 2095666 | 3379950 | 11.04% | 4.209% |
| 10 | 10.099 | 1506 | 1511 | 1523 | rVB | 2099651 | 3053670 | 9.98% | 3.802% |
| 11 | 10.342 | 1547 | 1551 | 1557 | rVB2 | 270638 | 408546 | 1.33% | 0.509% |
| 12 | 11.123 | 1673 | 1679 | 1685 | rBV | 1949595 | 2463958 | 8.05% | 3.068% |
| 13 | 11.927 | 1805 | 1811 | 1815 | rBV | 285091 | 365961 | 1.20% | 0.456% |
| 14 | 12.799 | 1945 | 1954 | 1959 | rBV | 538858 | 869393 | 2.84% | 1.083% |
| 15 | 12.982 | 1981 | 1984 | 1991 | rVB3 | 458950 | 801340 | 2.62% | 0.998% |
| 16 | 13.513 | 2066 | 2071 | 2074 | rBV | 723410 | 959436 | 3.14% | 1.195% |
| 17 | 13.555 | 2074 | 2078 | 2083 | rVB | 735940 | 978088 | 3.20% | 1.218% |
| 18 | 13.628 | 2085 | 2090 | 2095 | rBV2 | 427692 | 599205 | 1.96% | 0.746% |
| 19 | 13.817 | 2117 | 2121 | 2127 | rVB | 595212 | 791060 | 2.58% | 0.985% |

Sum of corrected areas: 80308955

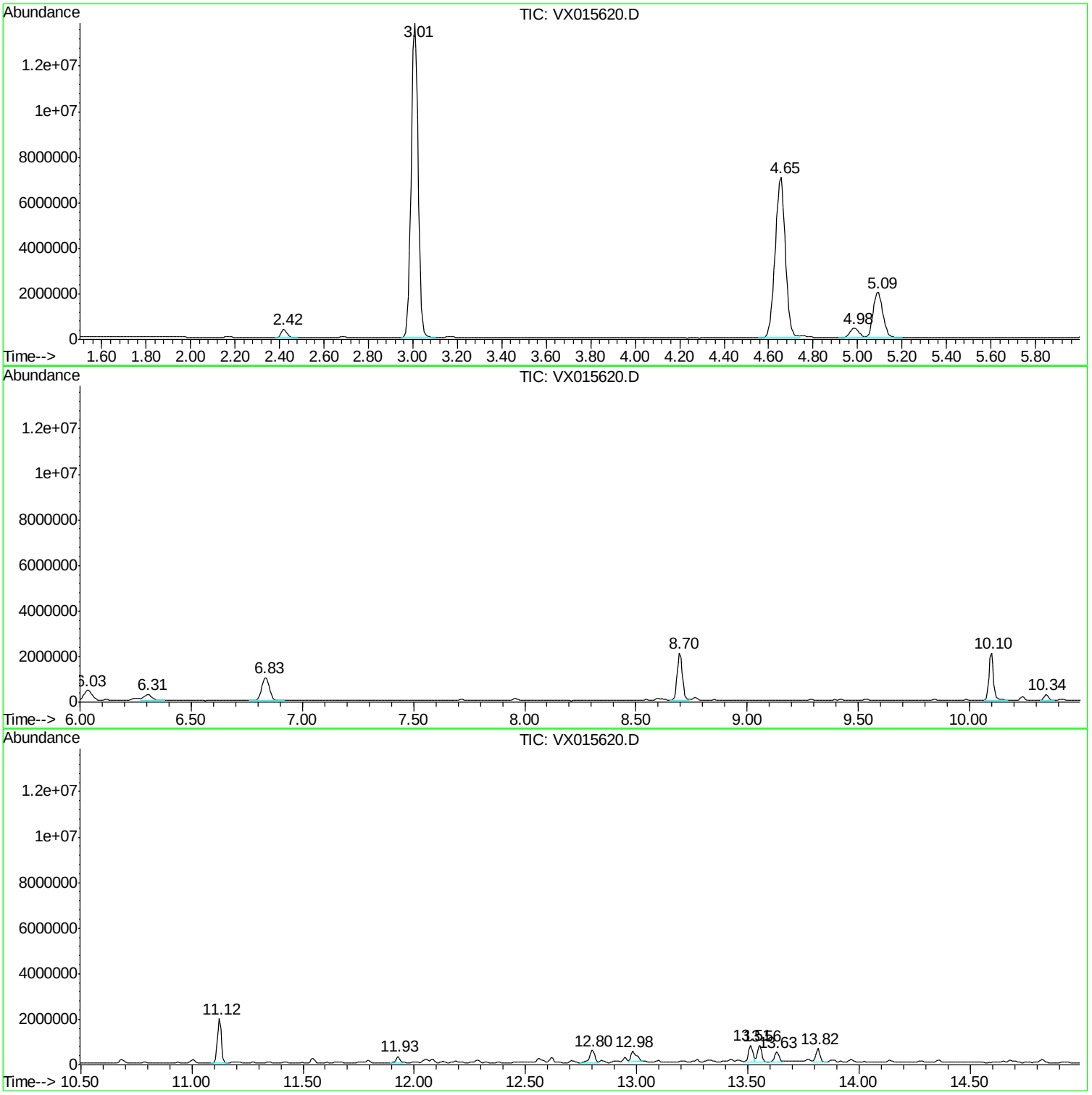
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX041020\
Data File : VX015620.D
Acq On : 10 Apr 2020 14:48
Operator : JC/SP
Sample : L2210-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** 400408742.3-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X032520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX041020\
Data File : VX015620.D
Acq On : 10 Apr 2020 14:48
Operator : JC/SP
Sample : L2210-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** 400408742.3-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X032520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

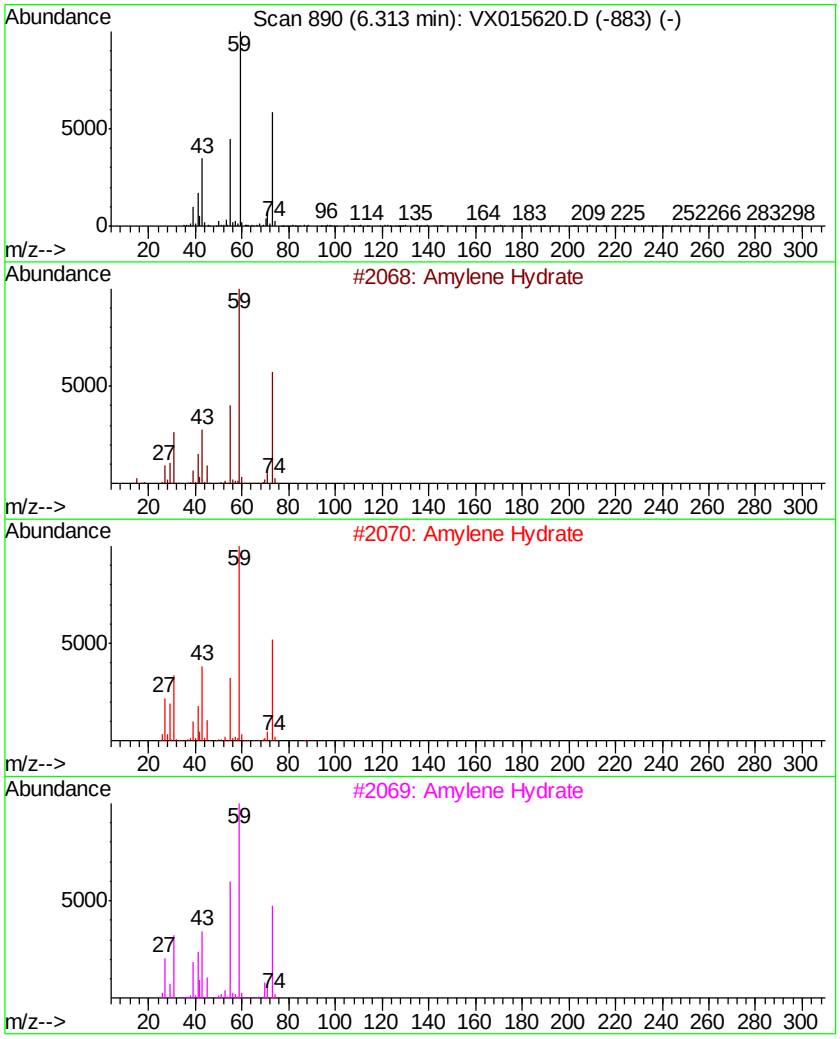
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

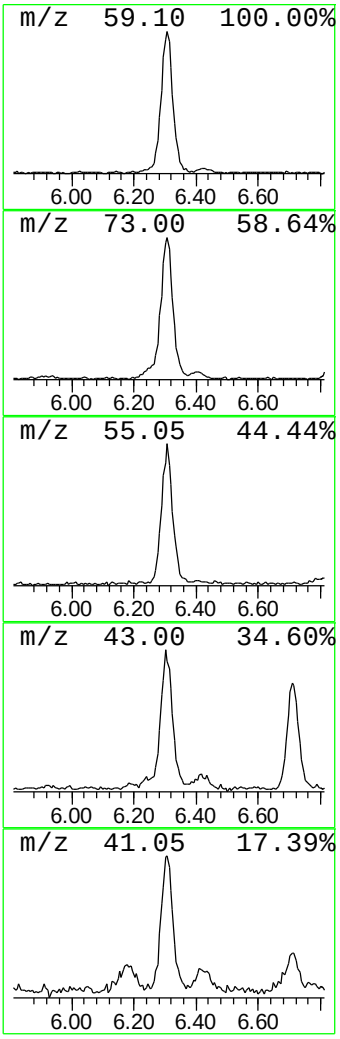
**********

Peak Number 2 Amylene Hydrate Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.31 | 9.02 ug/l | 731962 | 1,4-Difluorobenzene | 6.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Amylene Hydrate | 88 | C5H12O | 000075-85-4 | 72 |
| 2 | Amylene Hydrate | 88 | C5H12O | 000075-85-4 | 64 |
| 3 | Amylene Hydrate | 88 | C5H12O | 000075-85-4 | 56 |
| 4 | Silane, trimethyl- | 74 | C3H10Si | 000993-07-7 | 39 |
| 5 | D-chiro-Inositol, 3-O-(2-amino-4... | 379 | C14H25N3O9 | 006980-18-3 | 9 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX041020\
Data File : VX015620.D
Acq On : 10 Apr 2020 14:48
Operator : JC/SP
Sample : L2210-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** 400408742.3-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X032520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

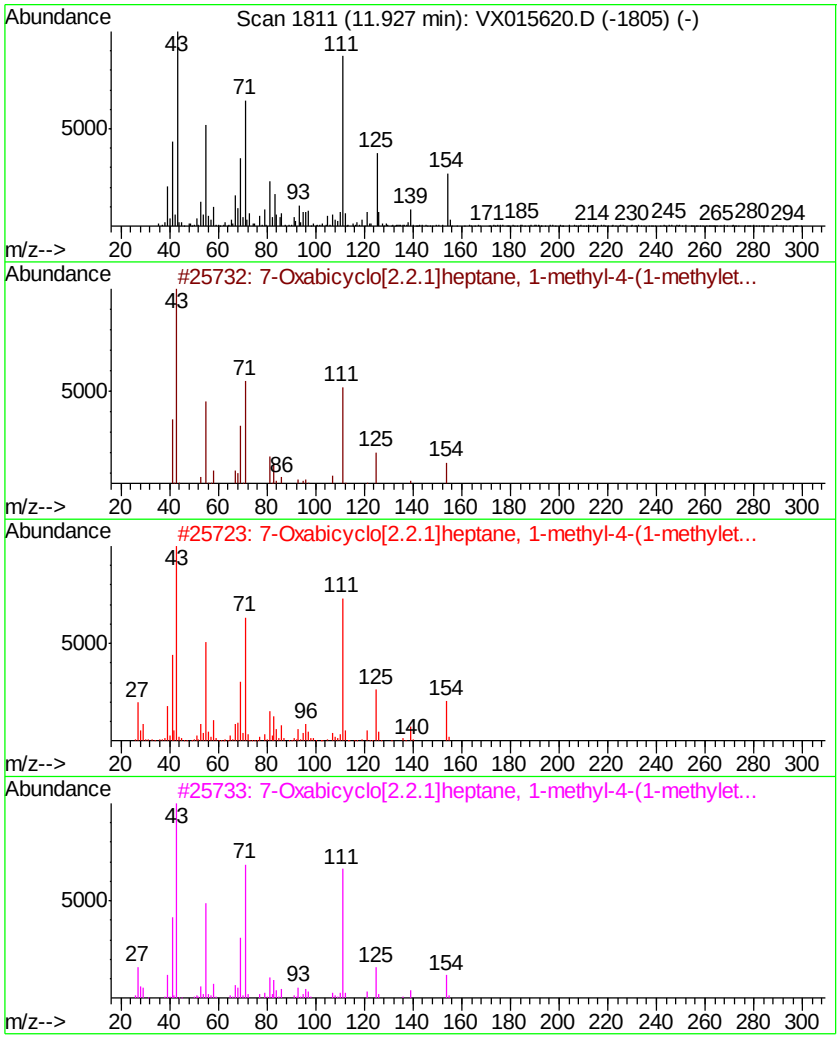
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

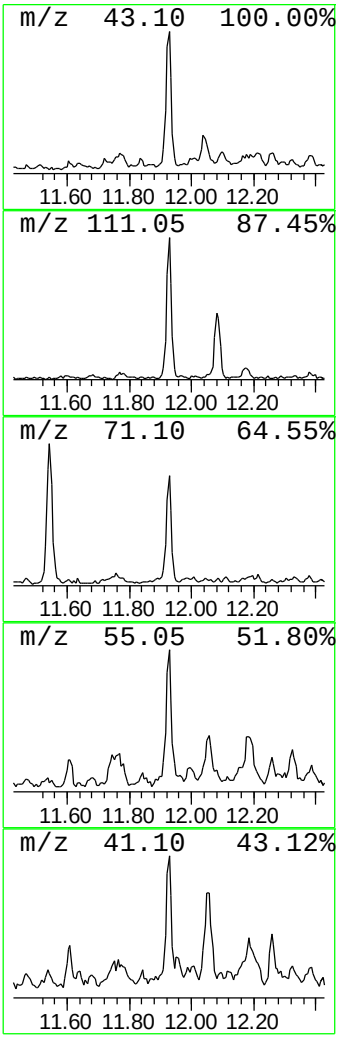
**********

Peak Number 3 7-Oxabicyclo[2.2.1]heptane,... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.93 | 3.60 ug/l | 365961 | Chlorobenzene-d5 | 10.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 7-Oxabicyclo[2.2.1]heptane, 1-me... | 154 | C10H18O | 000470-67-7 | 94 |
| 2 | 7-Oxabicyclo[2.2.1]heptane, 1-me... | 154 | C10H18O | 000470-67-7 | 94 |
| 3 | 7-Oxabicyclo[2.2.1]heptane, 1-me... | 154 | C10H18O | 000470-67-7 | 90 |
| 4 | cis-1-Hydroxybicyclo[4.4.0]decane | 154 | C10H18O | 003574-58-1 | 55 |
| 5 | 7-Oxabicyclo[2.2.1]heptane, 1-me... | 154 | C10H18O | 000470-67-7 | 50 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX041020\
Data File : VX015620.D
Acq On : 10 Apr 2020 14:48
Operator : JC/SP
Sample : L2210-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** 400408742.3-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X032520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

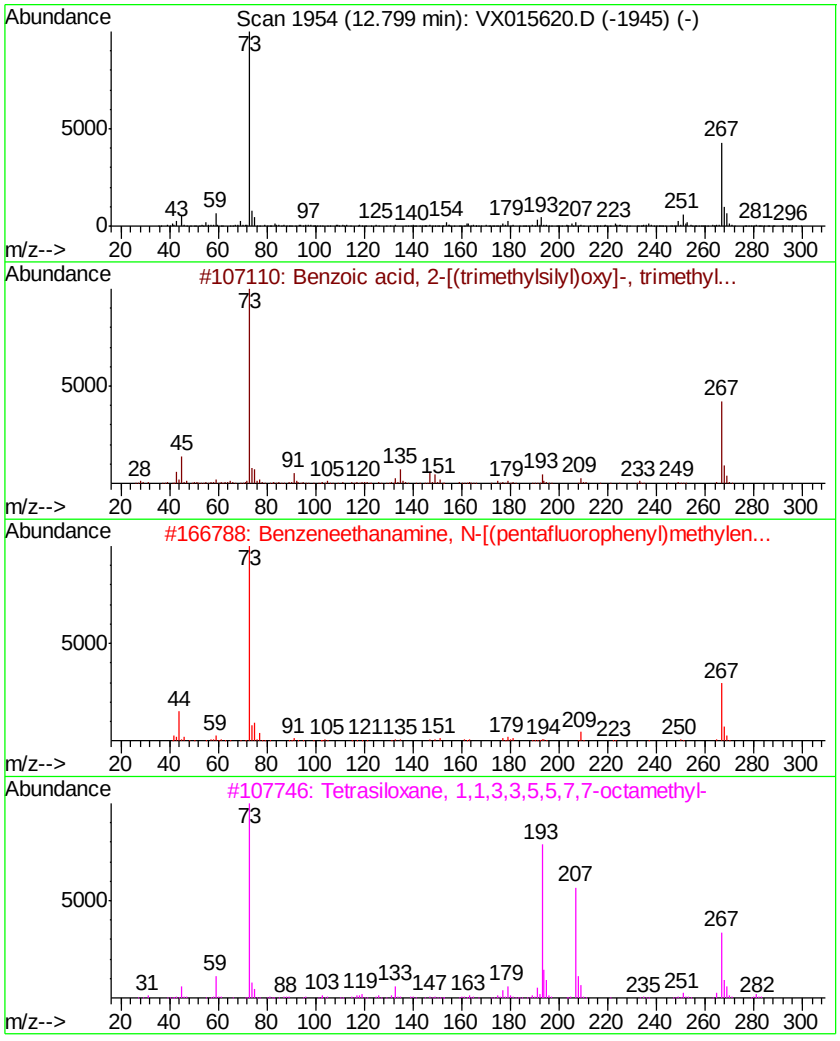
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

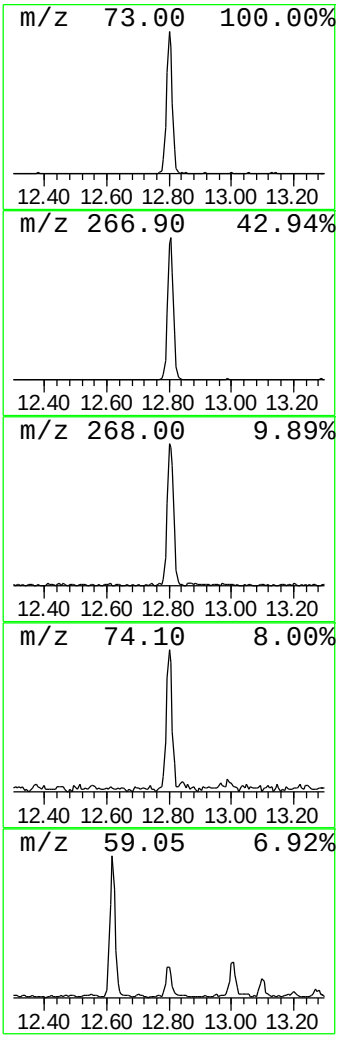
**********

Peak Number 4 Benzoic acid, 2-[(trimethyl... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.80 | 8.54 ug/l | 869393 | Chlorobenzene-d5 | 10.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzoic acid, 2-[(trimethylsilyl... | 282 | C13H22O3Si2 | 003789-85-3 | 50 |
| 2 | Benzeneethanamine, N-[(pentafluo... | 475 | C21H26F5NO2Si2 | 055429-85-1 | 45 |
| 3 | Tetrasiloxane, 1,1,3,3,5,5,7,7-o... | 282 | C8H26O3Si4 | 001000-05-1 | 12 |
| 4 | Benzeneacetic acid, trimethylsil... | 208 | C11H16O2Si | 002078-18-4 | 9 |
| 5 | 3,5-Dimethoxyphenylacetic acid, ... | 268 | C13H20O4Si | 1000071-82-4 | 9 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX041020\
Data File : VX015620.D
Acq On : 10 Apr 2020 14:48
Operator : JC/SP
Sample : L2210-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** 400408742.3-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X032520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

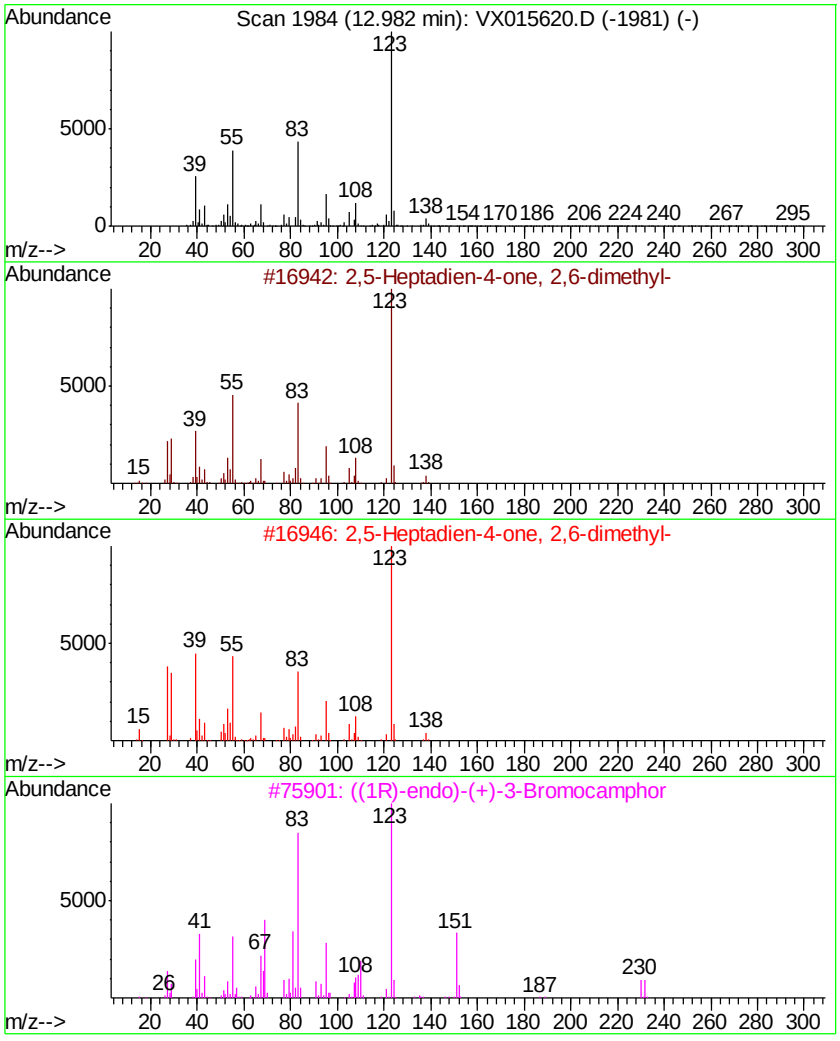
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

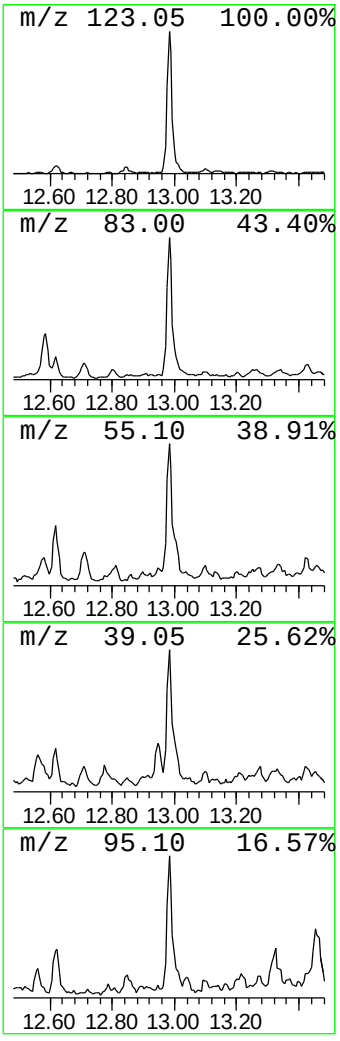
**********

Peak Number 5 2,5-Heptadien-4-one, 2,6-di... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.98 | 7.87 ug/l | 801340 | Chlorobenzene-d5 | 10.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,5-Heptadien-4-one, 2,6-dimethyl- | 138 | C9H14O | 000504-20-1 | 97 |
| 2 | 2,5-Heptadien-4-one, 2,6-dimethyl- | 138 | C9H14O | 000504-20-1 | 64 |
| 3 | ((1R)-endo)-(+)-3-Bromocamphor | 230 | C10H15BrO | 010293-06-8 | 56 |
| 4 | 2-Pyrimidinamine, 4,6-dimethyl- | 123 | C6H9N3 | 000767-15-7 | 50 |
| 5 | 2,5-Heptadien-4-one, 2,6-dimethyl- | 138 | C9H14O | 000504-20-1 | 49 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX041020\
Data File : VX015620.D
Acq On : 10 Apr 2020 14:48
Operator : JC/SP
Sample : L2210-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** 400408742.3-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X032520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

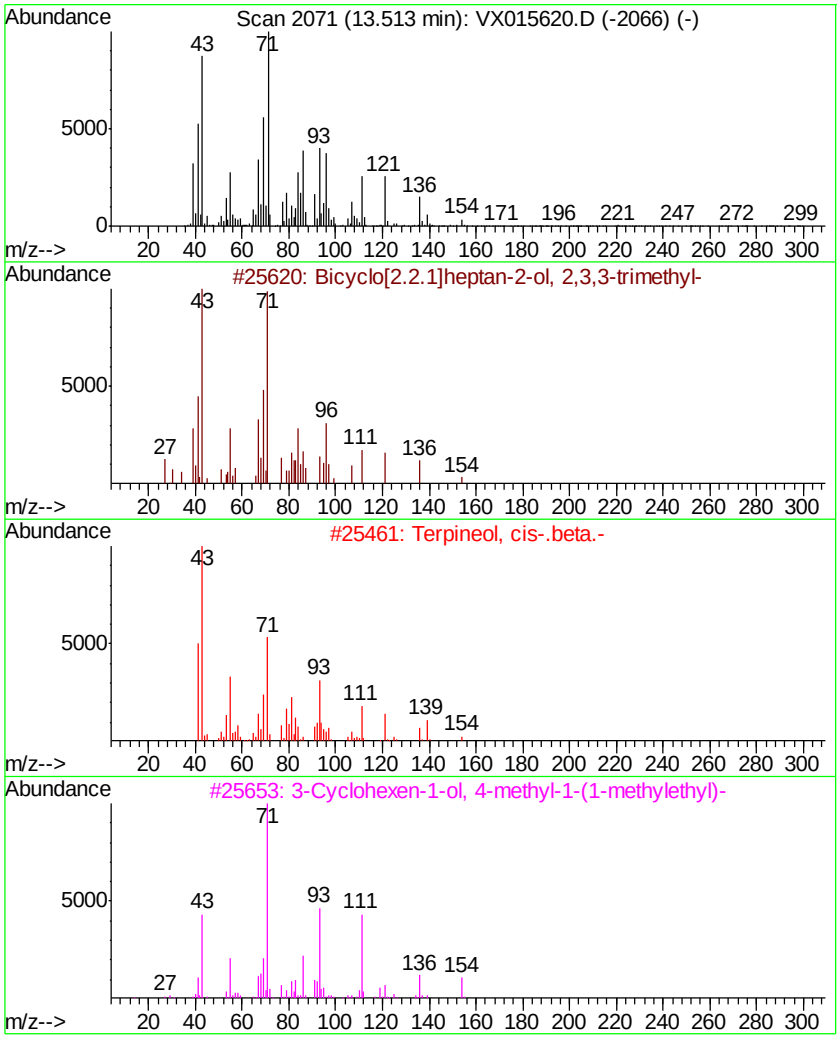
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

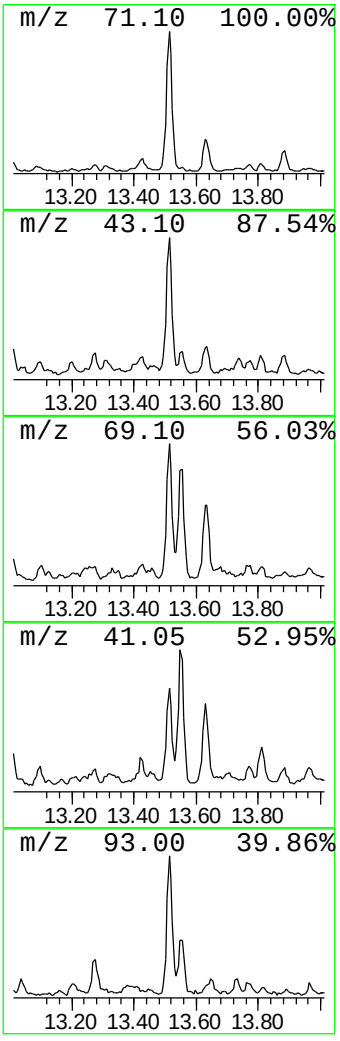
**********

Peak Number 6 Bicyclo[2.2.1]heptan-2-ol, ... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.51 | 9.43 ug/l | 959436 | Chlorobenzene-d5 | 10.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[2.2.1]heptan-2-ol, 2,3,3... | 154 | C10H18O | 000465-31-6 | 92 |
| 2 | Terpineol, cis-.beta.- | 154 | C10H18O | 007299-41-4 | 68 |
| 3 | 3-Cyclohexen-1-ol, 4-methyl-1-(1... | 154 | C10H18O | 000562-74-3 | 47 |
| 4 | 3-Cyclohexen-1-ol, 4-methyl-1-(1... | 154 | C10H18O | 000562-74-3 | 43 |
| 5 | 1-Propene, 1-methoxy-2-methyl- | 86 | C5H10O | 017574-84-4 | 38 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX041020\
Data File : VX015620.D
Acq On : 10 Apr 2020 14:48
Operator : JC/SP
Sample : L2210-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** 400408742.3-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X032520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

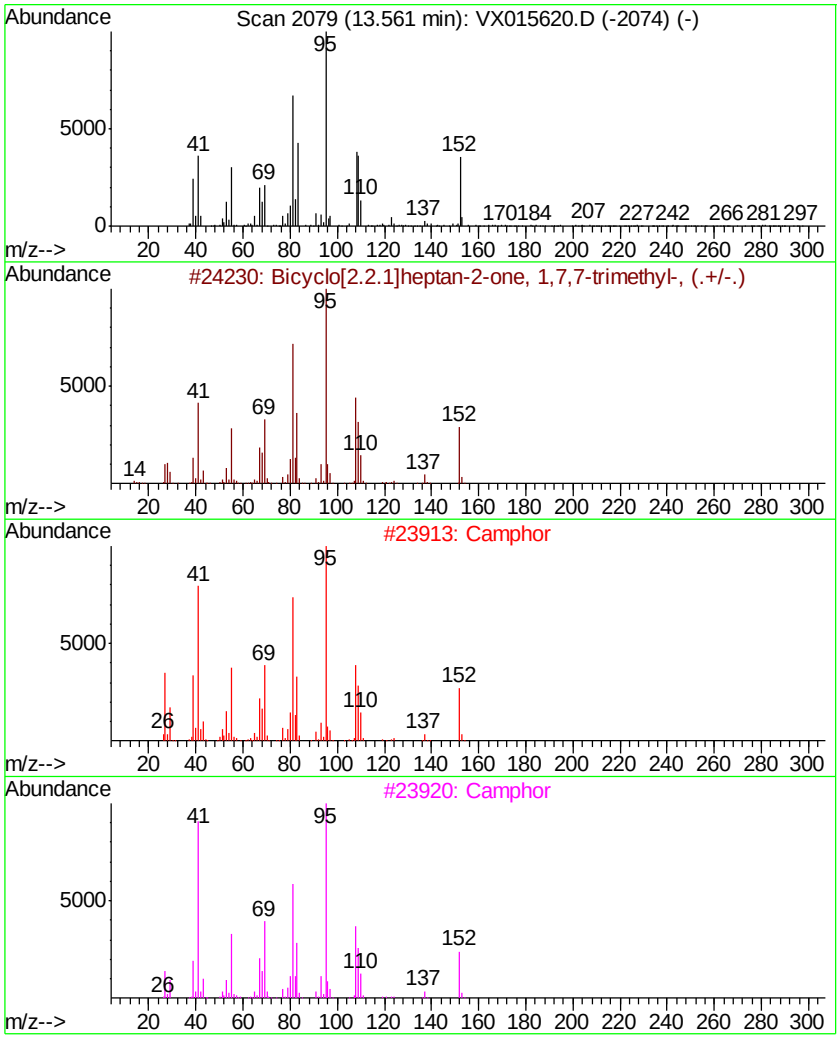
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

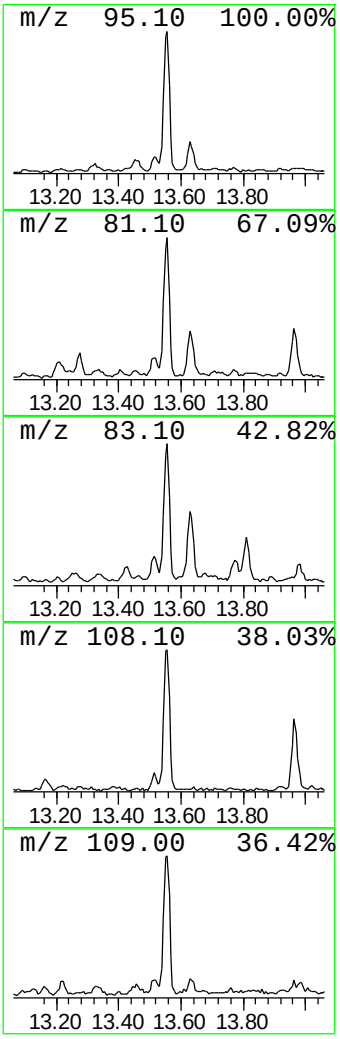
**********

Peak Number 7 Bicyclo[2.2.1]heptan-2-one,... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.56 | 9.61 ug/l | 978088 | Chlorobenzene-d5 | 10.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[2.2.1]heptan-2-one, 1,7,... | 152 | C10H16O | 021368-68-3 | 94 |
| 2 | Camphor | 152 | C10H16O | 000076-22-2 | 93 |
| 3 | Camphor | 152 | C10H16O | 000076-22-2 | 93 |
| 4 | Bicyclo[2.2.1]heptan-2-one, 1,7,... | 152 | C10H16O | 000464-49-3 | 93 |
| 5 | Bicyclo[2.2.1]heptan-2-one, 1,7,... | 152 | C10H16O | 000464-49-3 | 93 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX041020\
Data File : VX015620.D
Acq On : 10 Apr 2020 14:48
Operator : JC/SP
Sample : L2210-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** 400408742.3-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X032520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

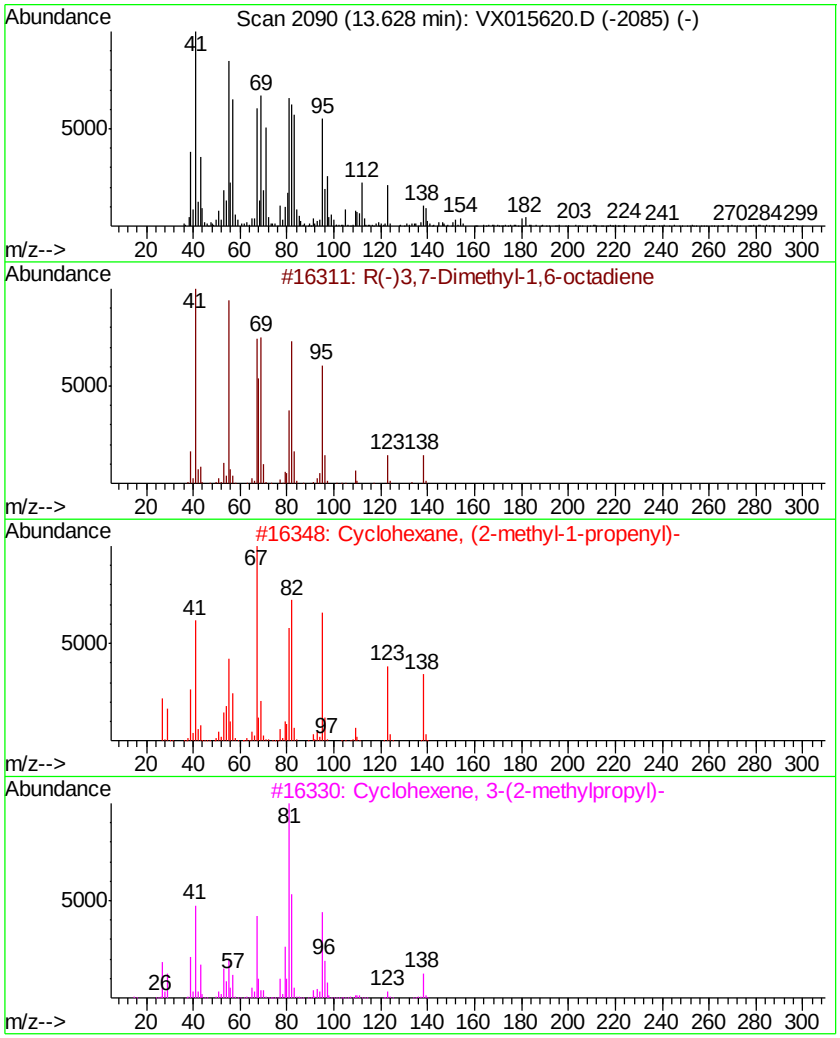
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

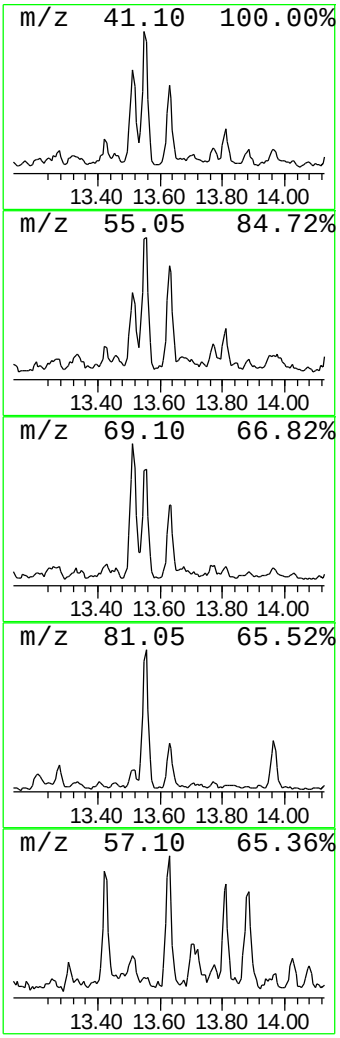
**********

Peak Number 8 R(-)3,7-Dimethyl-1,6-octadiene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.63 | 5.89 ug/l | 599205 | Chlorobenzene-d5 | 10.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | R(-)3,7-Dimethyl-1,6-octadiene | 138 | C10H18 | 010281-56-8 | 50 |
| 2 | Cyclohexane, (2-methyl-1-propenyl)- | 138 | C10H18 | 089656-98-4 | 45 |
| 3 | Cyclohexene, 3-(2-methylpropyl)- | 138 | C10H18 | 004104-56-7 | 45 |
| 4 | Cyclohexene, 3-(2-methylpropyl)- | 138 | C10H18 | 004104-56-7 | 45 |
| 5 | 1,6-Octadiene, 5,7-dimethyl-, (R)- | 138 | C10H18 | 085006-04-8 | 43 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX041020\
Data File : VX015620.D
Acq On : 10 Apr 2020 14:48
Operator : JC/SP
Sample : L2210-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** 400408742.3-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X032520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Amylene Hydrate | 6.31 | 9.0 | ug/l | 731962 | 2 | 6.84 | 2433320 | 30.0 |
| 7-Oxabicyclo[2.2.... | 11.93 | 3.6 | ug/l | 365961 | 3 | 10.10 | 3053670 | 30.0 |
| Benzoic acid, 2-[... | 12.80 | 8.5 | ug/l | 869393 | 3 | 10.10 | 3053670 | 30.0 |
| 2,5-Heptadien-4-o... | 12.98 | 7.9 | ug/l | 801340 | 3 | 10.10 | 3053670 | 30.0 |
| Bicyclo[2.2.1]hep... | 13.51 | 9.4 | ug/l | 959436 | 3 | 10.10 | 3053670 | 30.0 |
| Bicyclo[2.2.1]hep... | 13.56 | 9.6 | ug/l | 978088 | 3 | 10.10 | 3053670 | 30.0 |
| R(-)3,7-Dimethyl-... | 13.63 | 5.9 | ug/l | 599205 | 3 | 10.10 | 3053670 | 30.0 |