LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021622\
Data File : VU047162.D
Acq On : 16 Feb 2022 15:39
Operator : SY/MD
Sample : N1545-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.1 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_U\Method\SFAMUTR021622WMA.M
Title : TRACE VOA SFAM1.0

Signal : TIC: VU047162.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.362 | 3 | 7 | 27 | rVB | 966073 | 965355 | 24.38% | 4.903% |
| 2 | 1.494 | 38 | 48 | 58 | rBV2 | 53349 | 62240 | 1.57% | 0.316% |
| 3 | 1.594 | 70 | 79 | 90 | rBV3 | 378555 | 652904 | 16.49% | 3.316% |
| 4 | 1.735 | 117 | 123 | 135 | rVB | 54539 | 66865 | 1.69% | 0.340% |
| 5 | 1.919 | 169 | 180 | 198 | rBV2 | 87581 | 131112 | 3.31% | 0.666% |
| 6 | 2.002 | 198 | 206 | 218 | rVB | 33536 | 48391 | 1.22% | 0.246% |
| 7 | 2.160 | 247 | 255 | 263 | rBV | 64913 | 89007 | 2.25% | 0.452% |
| 8 | 2.215 | 263 | 272 | 292 | rVB4 | 50026 | 101916 | 2.57% | 0.518% |
| 9 | 2.420 | 326 | 336 | 346 | rVB5 | 25546 | 45854 | 1.16% | 0.233% |
| 10 | 2.578 | 368 | 385 | 399 | rBV4 | 217810 | 443826 | 11.21% | 2.254% |
| 11 | 3.369 | 609 | 631 | 651 | rVB2 | 52142 | 124610 | 3.15% | 0.633% |
| 12 | 3.877 | 762 | 789 | 811 | rBV2 | 19823 | 58254 | 1.47% | 0.296% |
| 13 | 4.671 | 1012 | 1036 | 1064 | rBV2 | 274811 | 810881 | 20.48% | 4.118% |
| 14 | 5.070 | 1144 | 1160 | 1186 | rVB | 136511 | 316272 | 7.99% | 1.606% |
| 15 | 5.321 | 1225 | 1238 | 1255 | rVB2 | 22301 | 49030 | 1.24% | 0.249% |
| 16 | 5.729 | 1343 | 1365 | 1395 | rBV2 | 280196 | 742950 | 18.76% | 3.773% |
| 17 | 6.253 | 1514 | 1528 | 1552 | rVB | 208661 | 403488 | 10.19% | 2.049% |
| 18 | 6.546 | 1603 | 1619 | 1640 | rBV | 2132316 | 3959648 | 100.00% | 20.111% |
| 19 | 6.693 | 1652 | 1665 | 1685 | rVB | 171944 | 342078 | 8.64% | 1.737% |
| 20 | 6.880 | 1712 | 1723 | 1742 | rBV | 44402 | 84559 | 2.14% | 0.429% |
| 21 | 7.568 | 1923 | 1937 | 1952 | rBV | 100484 | 176688 | 4.46% | 0.897% |
| 22 | 7.902 | 2025 | 2041 | 2056 | rBV | 353259 | 649613 | 16.41% | 3.299% |
| 23 | 8.182 | 2117 | 2128 | 2140 | rBV | 62482 | 103371 | 2.61% | 0.525% |
| 24 | 8.555 | 2230 | 2244 | 2259 | rBV | 1700316 | 2974994 | 75.13% | 15.110% |
| 25 | 8.636 | 2259 | 2269 | 2304 | rVV | 456362 | 894102 | 22.58% | 4.541% |
| 26 | 8.787 | 2305 | 2316 | 2363 | rVB | 415443 | 741082 | 18.72% | 3.764% |
| 27 | 9.420 | 2499 | 2513 | 2535 | rBV | 309301 | 538226 | 13.59% | 2.734% |
| 28 | 10.343 | 2785 | 2800 | 2825 | rBV | 118697 | 194499 | 4.91% | 0.988% |
| 29 | 10.758 | 2917 | 2929 | 2945 | rBV | 136362 | 221131 | 5.58% | 1.123% |
| 30 | 11.256 | 3073 | 3084 | 3090 | rBV | 50319 | 75438 | 1.91% | 0.383% |
| 31 | 11.295 | 3090 | 3096 | 3107 | rVB | 41548 | 64020 | 1.62% | 0.325% |
| 32 | 11.687 | 3206 | 3218 | 3234 | rBV | 344894 | 509079 | 12.86% | 2.586% |
| 33 | 11.812 | 3245 | 3257 | 3276 | rVB | 387794 | 616623 | 15.57% | 3.132% |
| 34 | 12.192 | 3363 | 3375 | 3396 | rVB | 363519 | 592435 | 14.96% | 3.009% |
| 35 | 12.545 | 3473 | 3485 | 3502 | rBV4 | 46083 | 85930 | 2.17% | 0.436% |
| 36 | 12.886 | 3579 | 3591 | 3623 | rVB | 933770 | 1329506 | 33.58% | 6.753% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021622\
Data File : VU047162.D
Acq On : 16 Feb 2022 15:39
Operator : SY/MD
Sample : N1545-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.1 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_U\Method\SFAMUTR021622WMA.M
Title : TRACE VOA SFAM1.0

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 14.735 | 4152 | 4166 | 4184 | rBV | 211974 | 330340 | 8.34% | 1.678% |
| 38 | 15.706 | 4457 | 4468 | 4481 | rBV7 | 22833 | 44118 | 1.11% | 0.224% |
| 39 | 16.886 | 4823 | 4835 | 4846 | rBV2 | 27964 | 48606 | 1.23% | 0.247% |

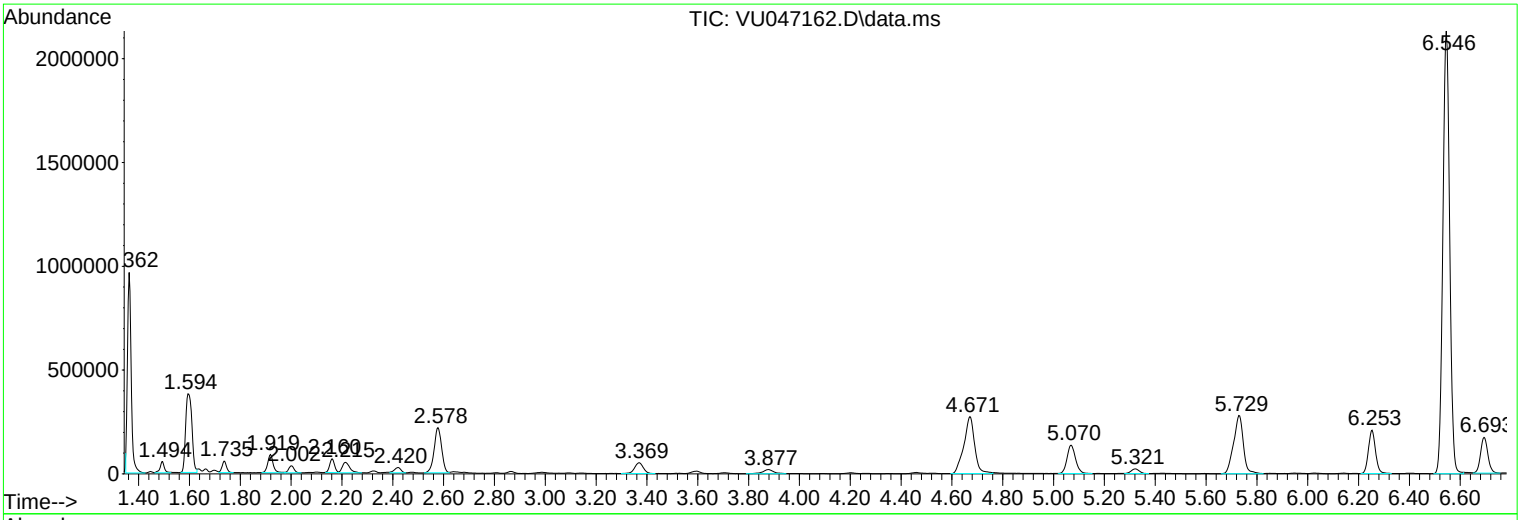
Sum of corrected areas: 19689041

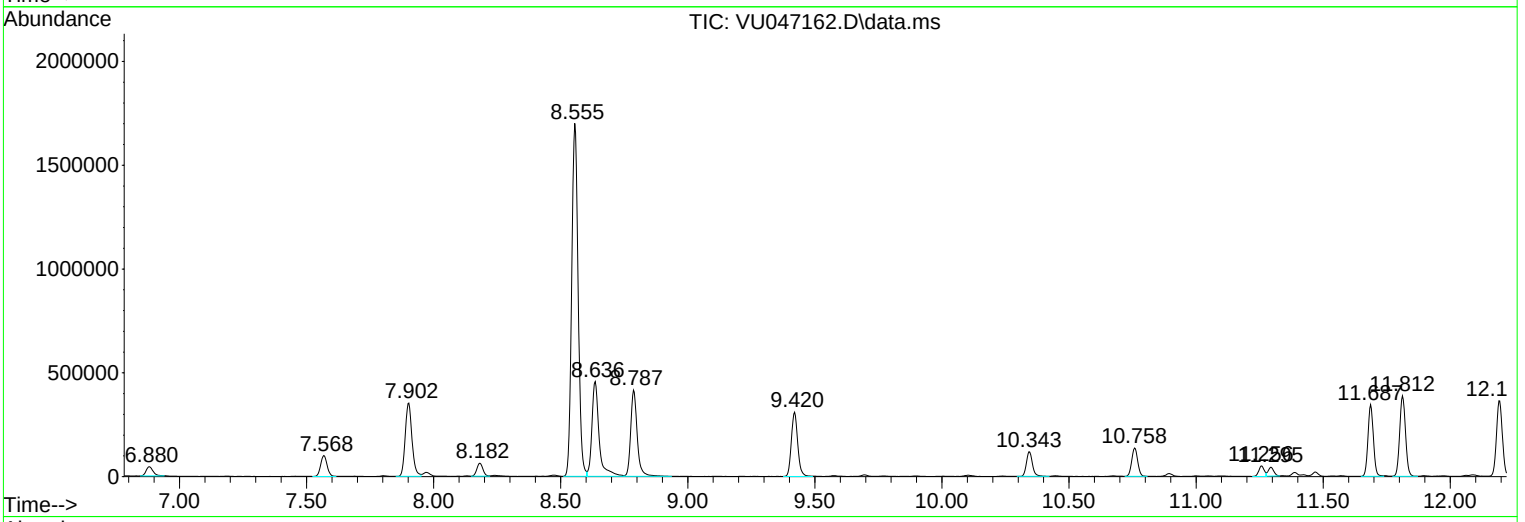
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021622\
Data File : VU047162.D
Acq On : 16 Feb 2022 15:39
Operator : SY/MD
Sample : N1545-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

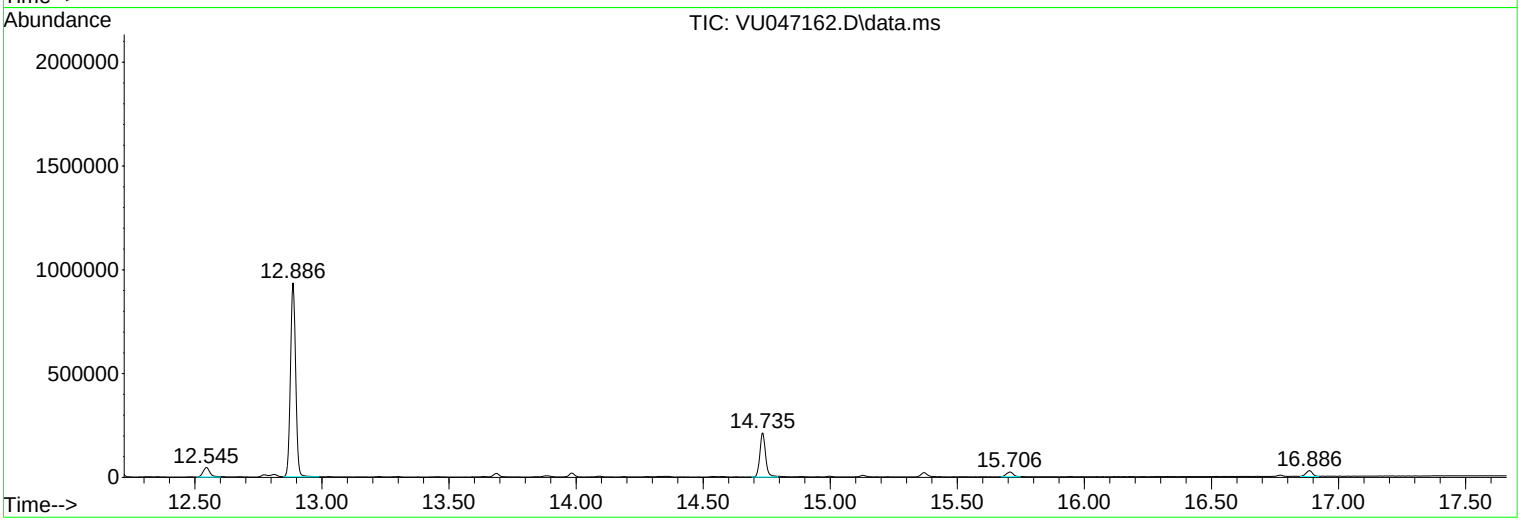
**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR021622WMA.M
Quant Title : TRACE VOA SFAM1.0

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021622\
Data File : VU047162.D
Acq On : 16 Feb 2022 15:39
Operator : SY/MD
Sample : N1545-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY01

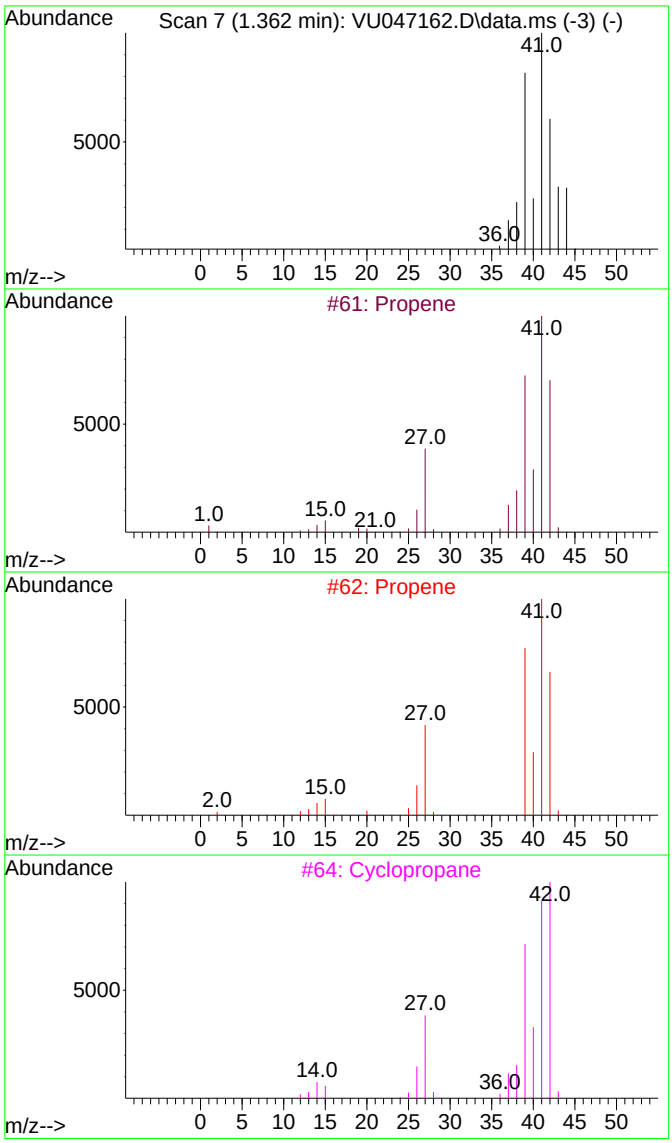
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR021622WMA.M
Quant Title : TRACE VOA SFAM1.0

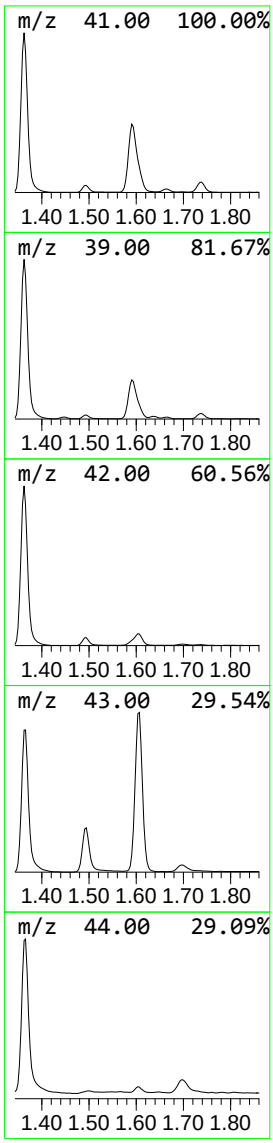
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.362 | 11.96 ug/L | 965355 | 1,4-Difluorobenzene | 6.253 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propene | 42 | C3H6 | 000115-07-1 | 90 |
| 2 | Propene | 42 | C3H6 | 000115-07-1 | 42 |
| 3 | Cyclopropane | 42 | C3H6 | 000075-19-4 | 9 |
| 4 | Cyclopropene | 40 | C3H4 | 002781-85-3 | 9 |
| 5 | Cyclopropane | 42 | C3H6 | 000075-19-4 | 7 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021622\
Data File : VU047162.D
Acq On : 16 Feb 2022 15:39
Operator : SY/MD
Sample : N1545-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY01

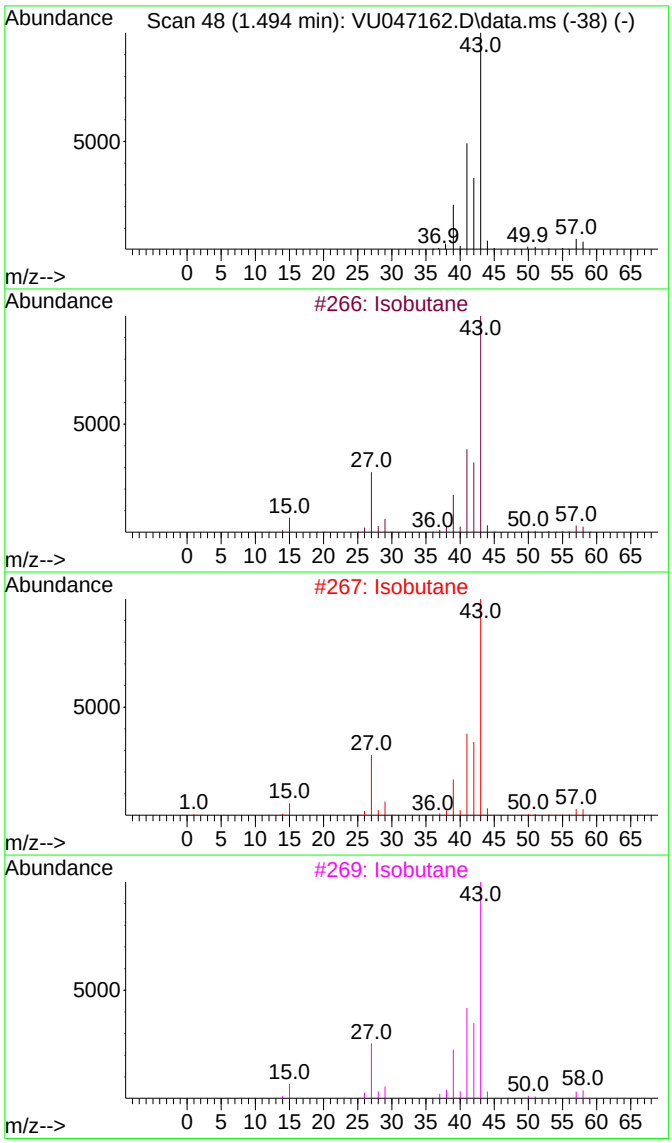
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR021622WMA.M
Quant Title : TRACE VOA SFAM1.0

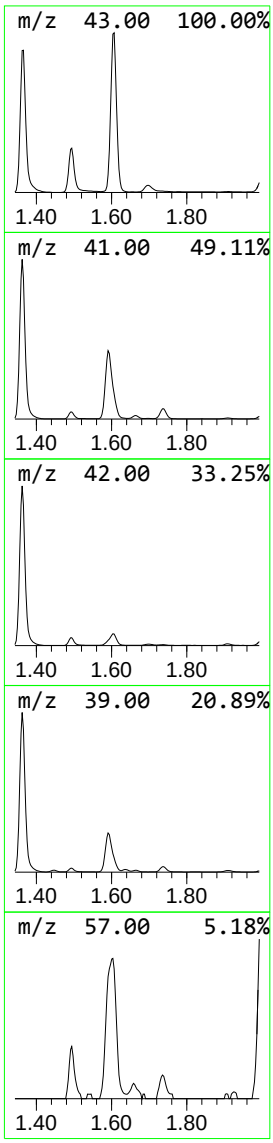
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.494 | 0.77 ug/L | 62240 | 1,4-Difluorobenzene | 6.253 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Isobutane | 58 | C4H10 | 000075-28-5 | 86 |
| 2 | Isobutane | 58 | C4H10 | 000075-28-5 | 78 |
| 3 | Isobutane | 58 | C4H10 | 000075-28-5 | 72 |
| 4 | Isobutane | 58 | C4H10 | 000075-28-5 | 64 |
| 5 | Isobutane | 58 | C4H10 | 000075-28-5 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021622\
Data File : VU047162.D
Acq On : 16 Feb 2022 15:39
Operator : SY/MD
Sample : N1545-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY01

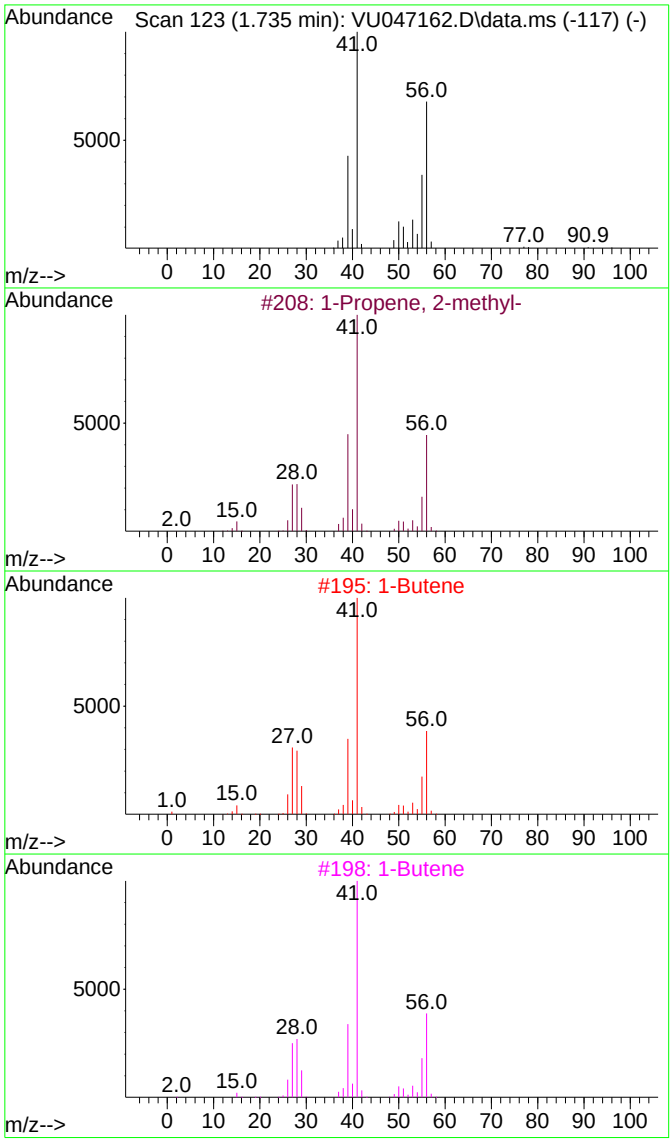
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR021622WMA.M
Quant Title : TRACE VOA SFAM1.0

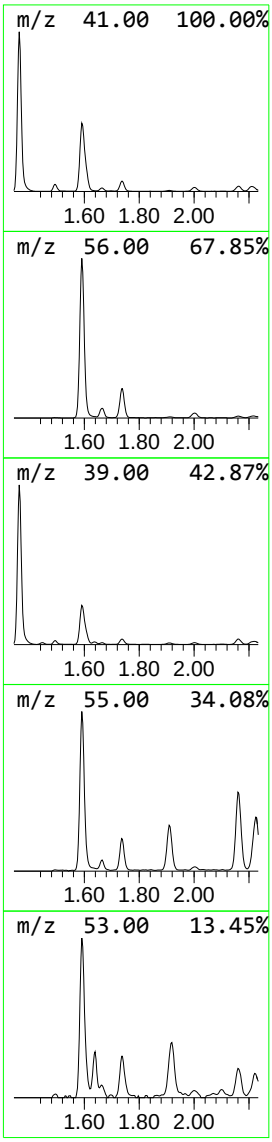
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.735 | 0.83 ug/L | 66865 | 1,4-Difluorobenzene | 6.253 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Propene, 2-methyl- | 56 | C4H8 | 000115-11-7 | 80 |
| 2 | 1-Butene | 56 | C4H8 | 000106-98-9 | 80 |
| 3 | 1-Butene | 56 | C4H8 | 000106-98-9 | 80 |
| 4 | 2-Butene, (Z)- | 56 | C4H8 | 000590-18-1 | 74 |
| 5 | 2-Butene, (Z)- | 56 | C4H8 | 000590-18-1 | 72 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021622\
Data File : VU047162.D
Acq On : 16 Feb 2022 15:39
Operator : SY/MD
Sample : N1545-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY01

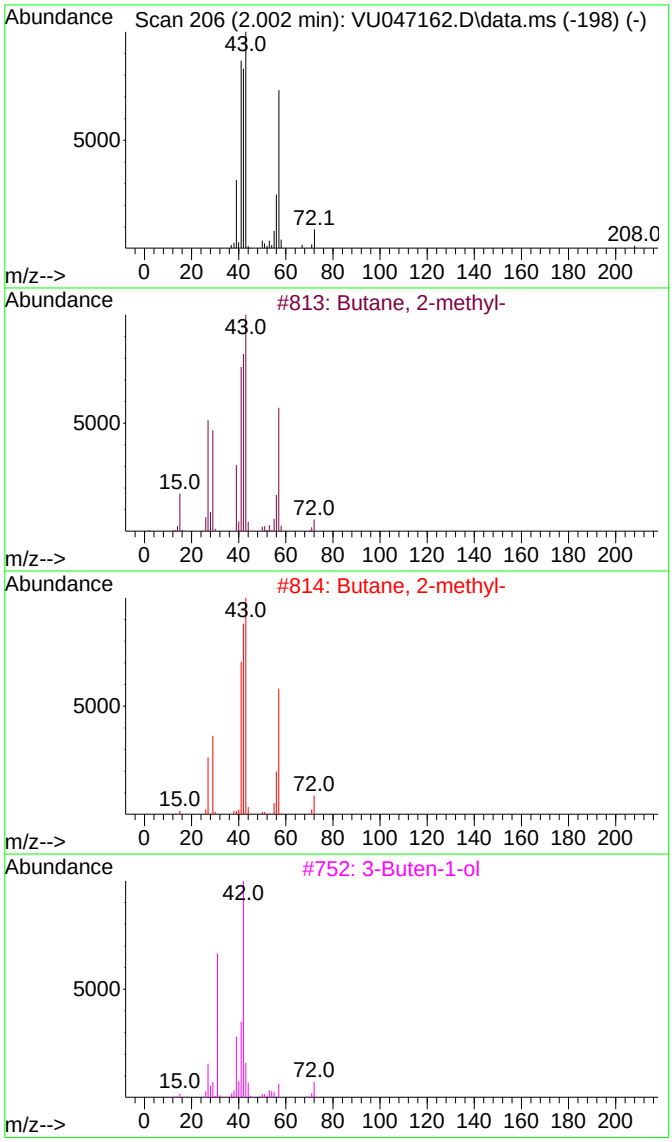
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR021622WMA.M
Quant Title : TRACE VOA SFAM1.0

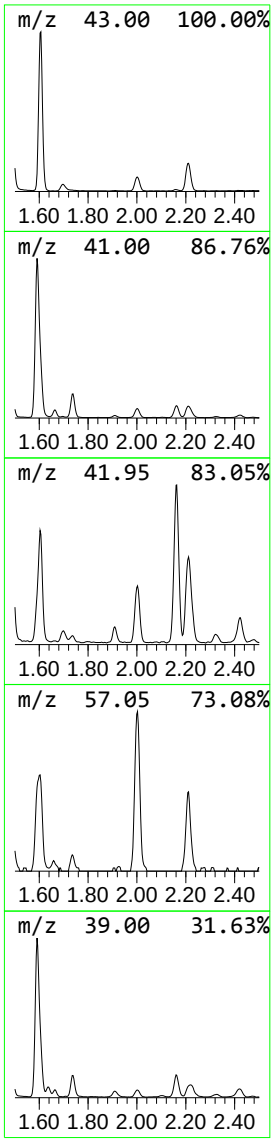
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.002 | 0.60 ug/L | 48391 | 1,4-Difluorobenzene | 6.253 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 90 |
| 2 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 86 |
| 3 | 3-Buten-1-ol | 72 | C4H8O | 000627-27-0 | 47 |
| 4 | 3-Buten-1-ol | 72 | C4H8O | 000627-27-0 | 37 |
| 5 | Pentane | 72 | C5H12 | 000109-66-0 | 36 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021622\
Data File : VU047162.D
Acq On : 16 Feb 2022 15:39
Operator : SY/MD
Sample : N1545-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY01

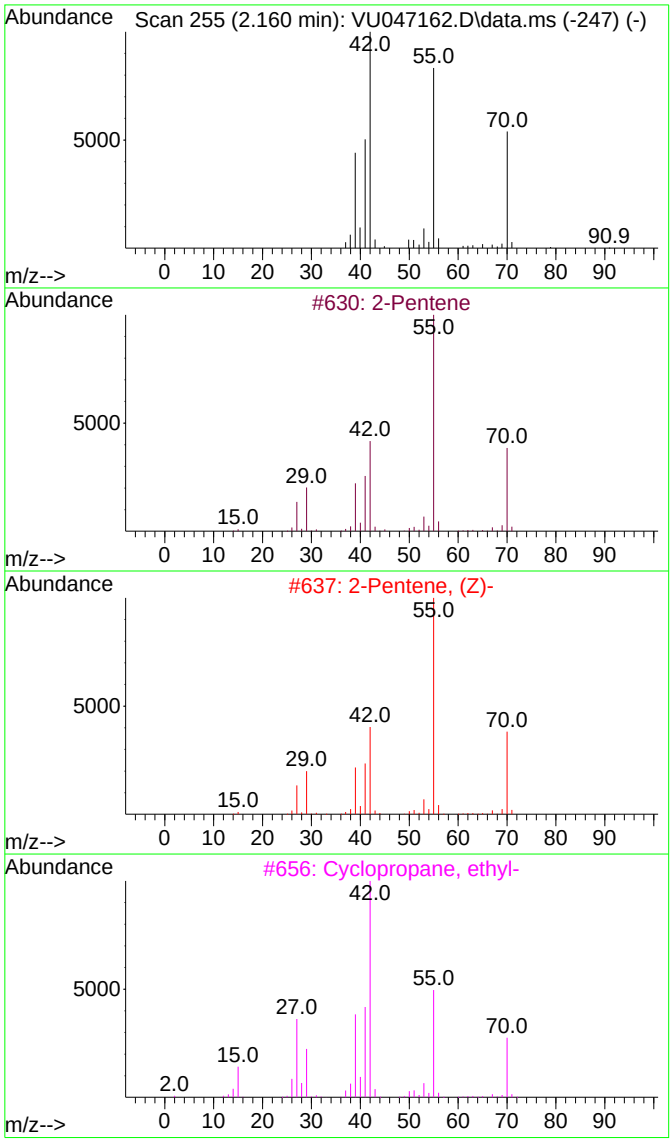
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR021622WMA.M
Quant Title : TRACE VOA SFAM1.0

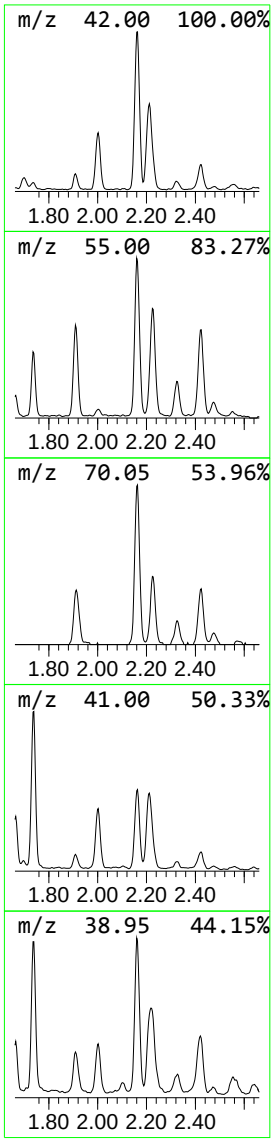
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.160 | 1.10 ug/L | 89007 | 1,4-Difluorobenzene | 6.253 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentene | 70 | C5H10 | 000109-68-2 | 80 |
| 2 | 2-Pentene, (Z)- | 70 | C5H10 | 000627-20-3 | 80 |
| 3 | Cyclopropane, ethyl- | 70 | C5H10 | 001191-96-4 | 78 |
| 4 | 1-Pentene | 70 | C5H10 | 000109-67-1 | 76 |
| 5 | Cyclopropane, ethyl- | 70 | C5H10 | 001191-96-4 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021622\
Data File : VU047162.D
Acq On : 16 Feb 2022 15:39
Operator : SY/MD
Sample : N1545-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY01

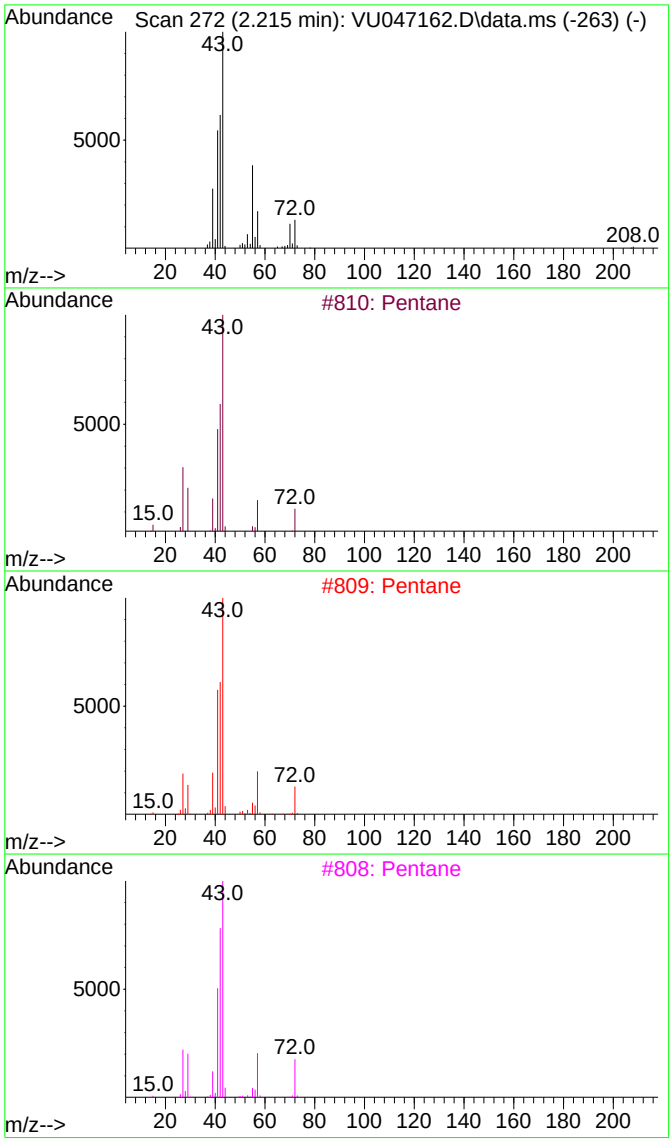
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR021622WMA.M
Quant Title : TRACE VOA SFAM1.0

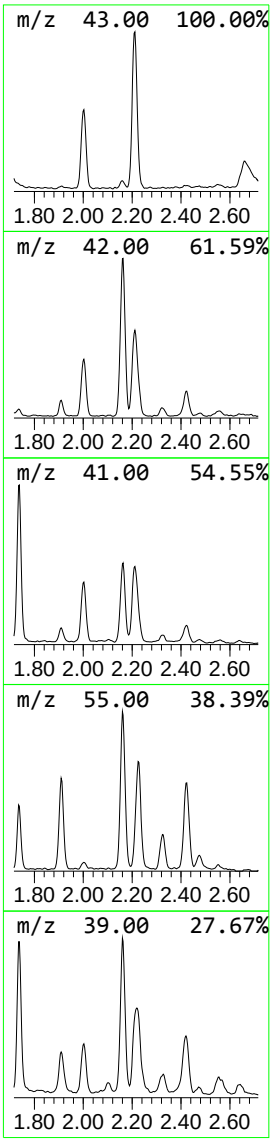
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.215 | 1.26 ug/L | 101916 | 1,4-Difluorobenzene | 6.253 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane | 72 | C5H12 | 000109-66-0 | 72 |
| 2 | Pentane | 72 | C5H12 | 000109-66-0 | 64 |
| 3 | Pentane | 72 | C5H12 | 000109-66-0 | 59 |
| 4 | Pentane | 72 | C5H12 | 000109-66-0 | 59 |
| 5 | Pentane | 72 | C5H12 | 000109-66-0 | 53 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021622\
Data File : VU047162.D
Acq On : 16 Feb 2022 15:39
Operator : SY/MD
Sample : N1545-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY01

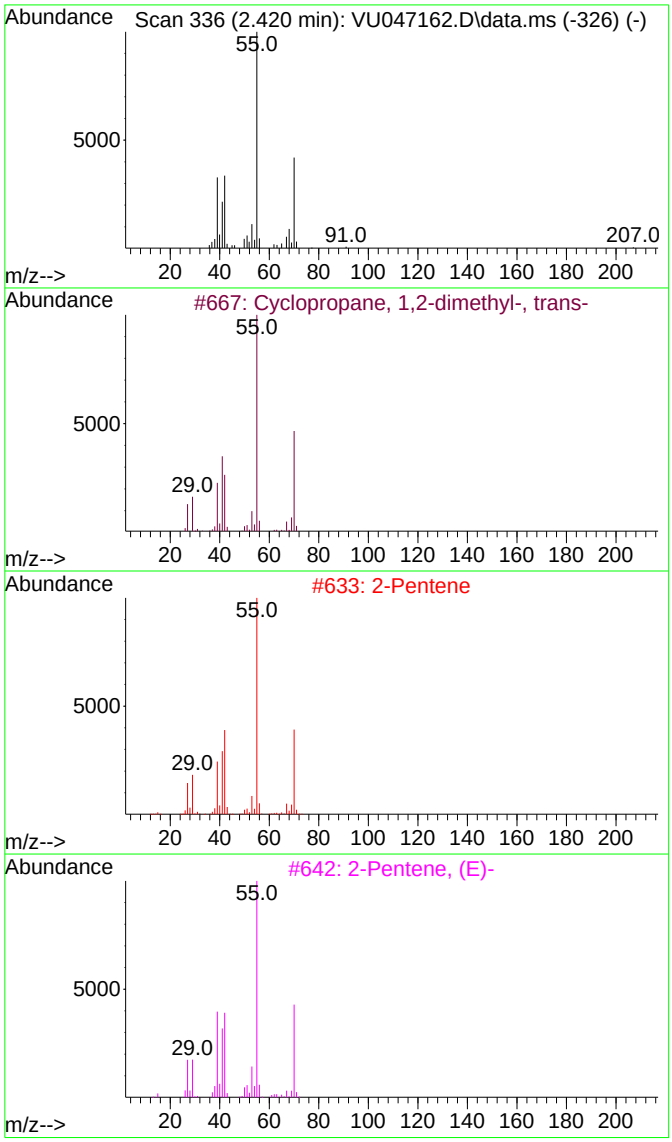
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR021622WMA.M
Quant Title : TRACE VOA SFAM1.0

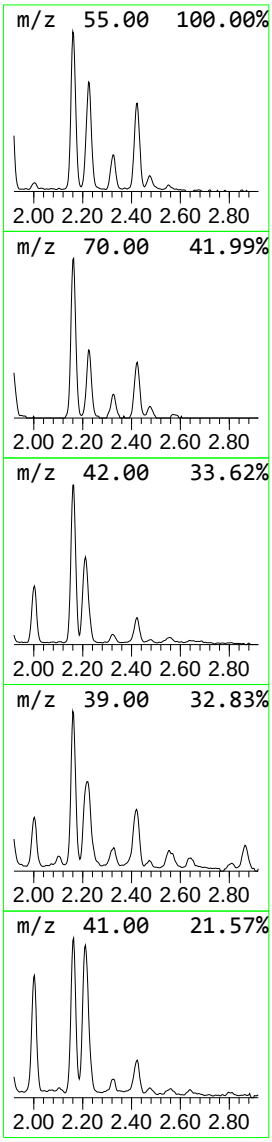
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 7 (DEL) Alkane: Cyclic2.420 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.420 | 0.57 ug/L | 45854 | 1,4-Difluorobenzene | 6.253 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopropane, 1,2-dimethyl-, trans- | 70 | C5H10 | 002402-06-4 | 86 |
| 2 | 2-Pentene | 70 | C5H10 | 000109-68-2 | 86 |
| 3 | 2-Pentene, (E)- | 70 | C5H10 | 000646-04-8 | 81 |
| 4 | 2-Pentene, (E)- | 70 | C5H10 | 000646-04-8 | 80 |
| 5 | 2-Methyl-1-butene | 70 | C5H10 | 000563-46-2 | 80 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021622\
Data File : VU047162.D
Acq On : 16 Feb 2022 15:39
Operator : SY/MD
Sample : N1545-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR021622WMA.M
Quant Title : TRACE VOA SFAM1.0

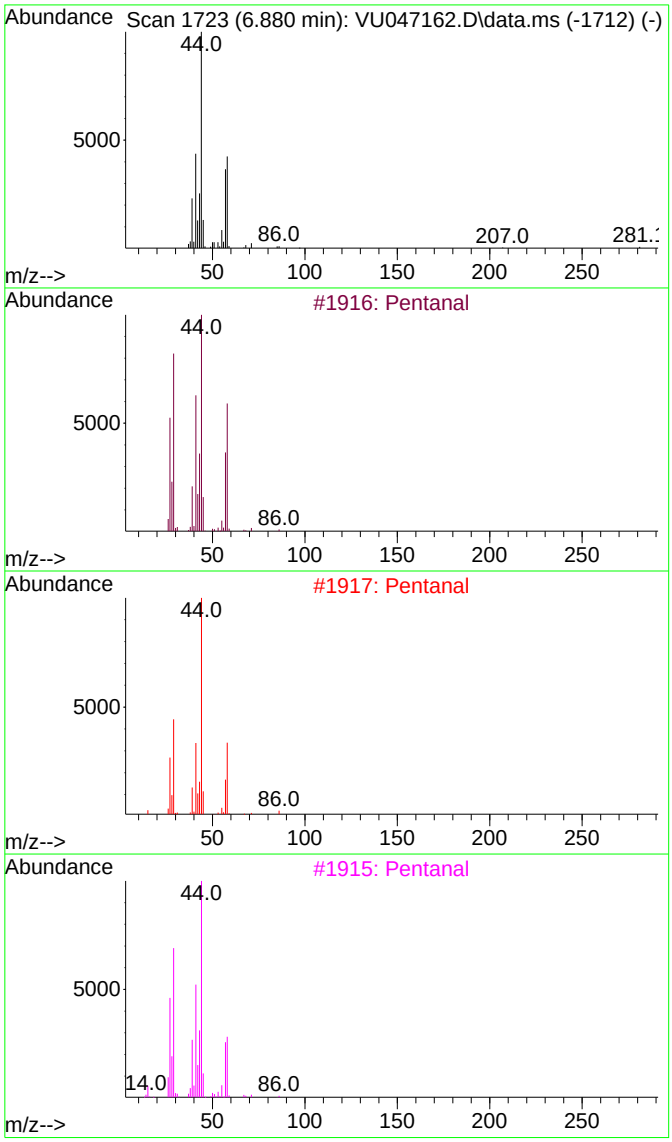
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

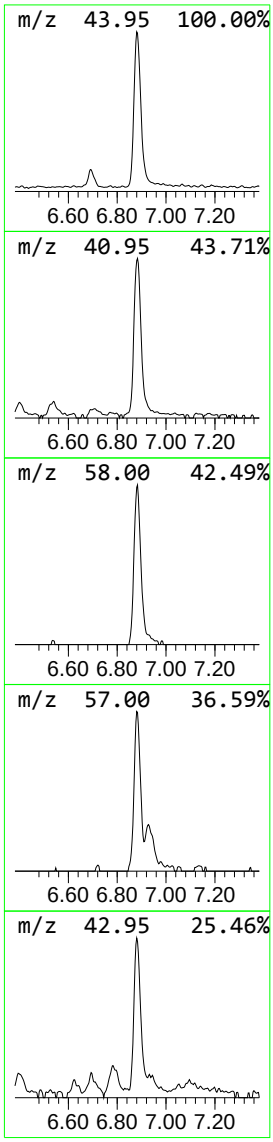
**********

Peak Number 8 Pentanal Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.880 | 1.05 ug/L | 84559 | 1,4-Difluorobenzene | 6.253 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentanal | 86 | C5H10O | 000110-62-3 | 90 |
| 2 | Pentanal | 86 | C5H10O | 000110-62-3 | 83 |
| 3 | Pentanal | 86 | C5H10O | 000110-62-3 | 80 |
| 4 | Pentanal | 86 | C5H10O | 000110-62-3 | 64 |
| 5 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 43 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021622\
Data File : VU047162.D
Acq On : 16 Feb 2022 15:39
Operator : SY/MD
Sample : N1545-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR021622WMA.M
Quant Title : TRACE VOA SFAM1.0

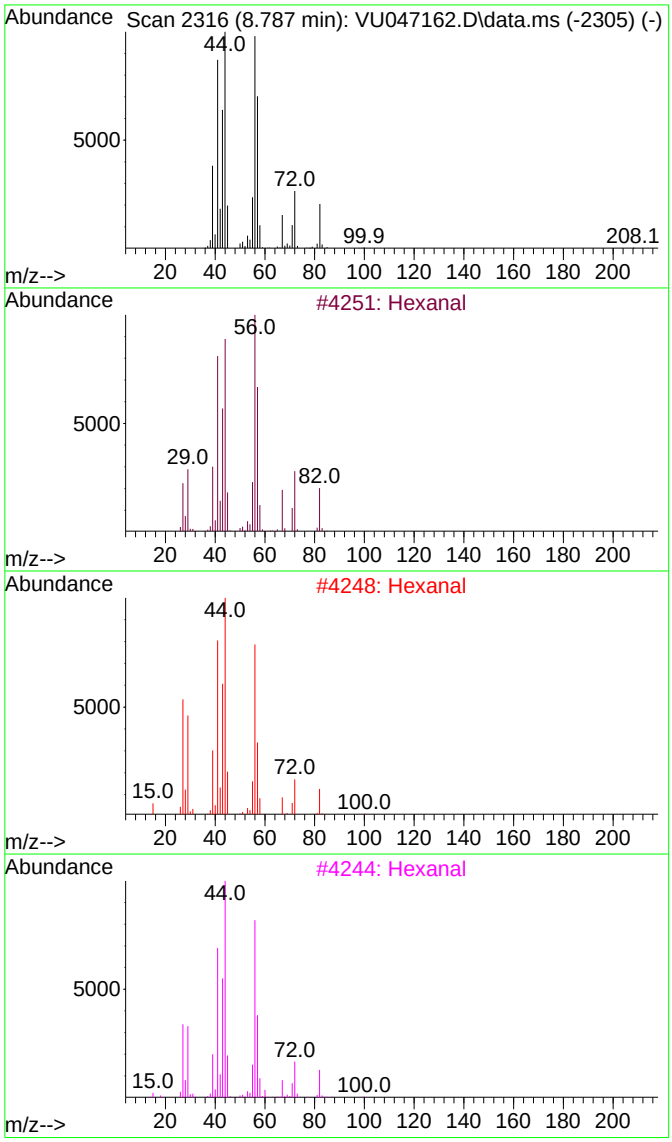
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

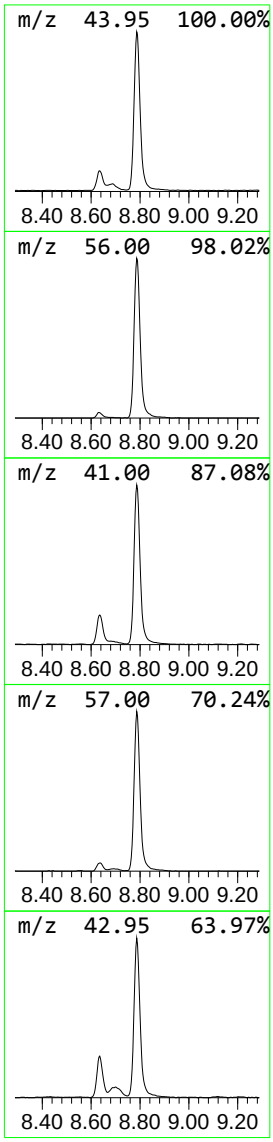
**********

Peak Number 10 Hexanal Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.787 | 6.88 ug/L | 741082 | Chlorobenzene-d5 | 9.420 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanal | 100 | C6H12O | 000066-25-1 | 94 |
| 2 | Hexanal | 100 | C6H12O | 000066-25-1 | 87 |
| 3 | Hexanal | 100 | C6H12O | 000066-25-1 | 87 |
| 4 | Hexanal | 100 | C6H12O | 000066-25-1 | 72 |
| 5 | Hexanal | 100 | C6H12O | 000066-25-1 | 72 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021622\
Data File : VU047162.D
Acq On : 16 Feb 2022 15:39
Operator : SY/MD
Sample : N1545-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR021622WMA.M
Quant Title : TRACE VOA SFAM1.0

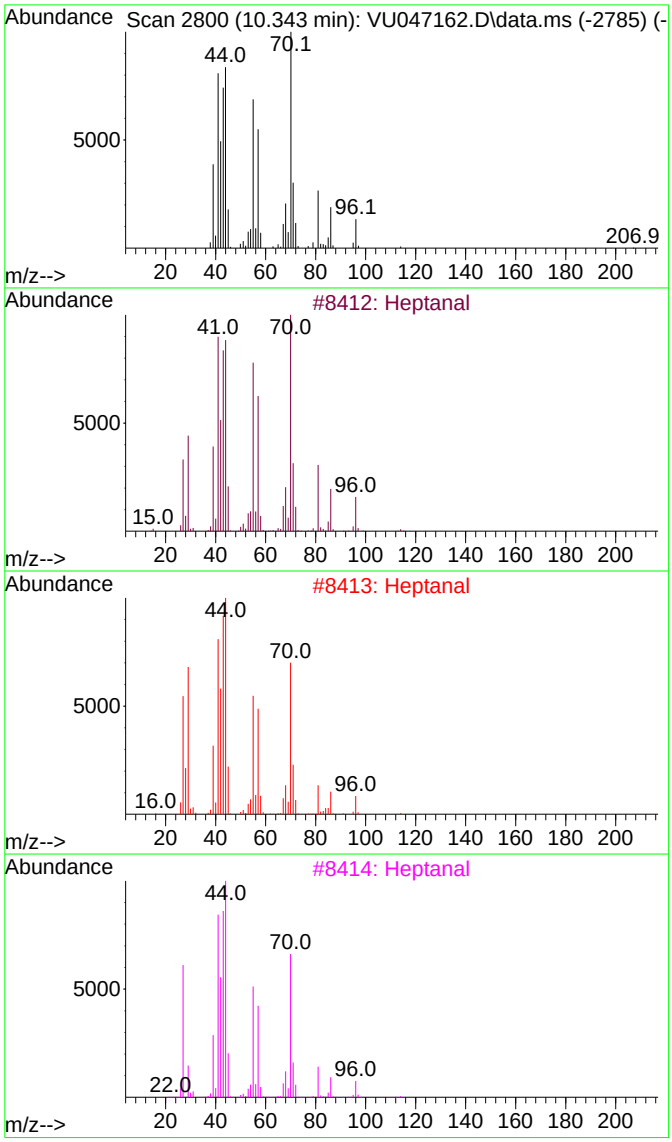
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

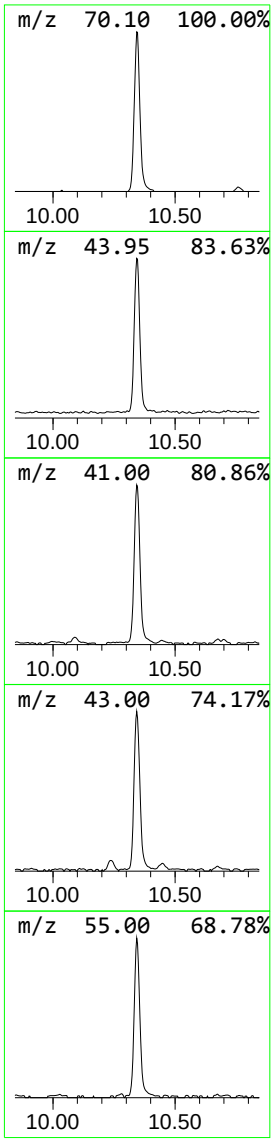
**********

Peak Number 11 Heptanal Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.343 | 1.81 ug/L | 194499 | Chlorobenzene-d5 | 9.420 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptanal | 114 | C7H14O | 000111-71-7 | 98 |
| 2 | Heptanal | 114 | C7H14O | 000111-71-7 | 95 |
| 3 | Heptanal | 114 | C7H14O | 000111-71-7 | 94 |
| 4 | Heptanal | 114 | C7H14O | 000111-71-7 | 64 |
| 5 | Heptanal | 114 | C7H14O | 000111-71-7 | 49 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021622\
Data File : VU047162.D
Acq On : 16 Feb 2022 15:39
Operator : SY/MD
Sample : N1545-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR021622WMA.M
Quant Title : TRACE VOA SFAM1.0

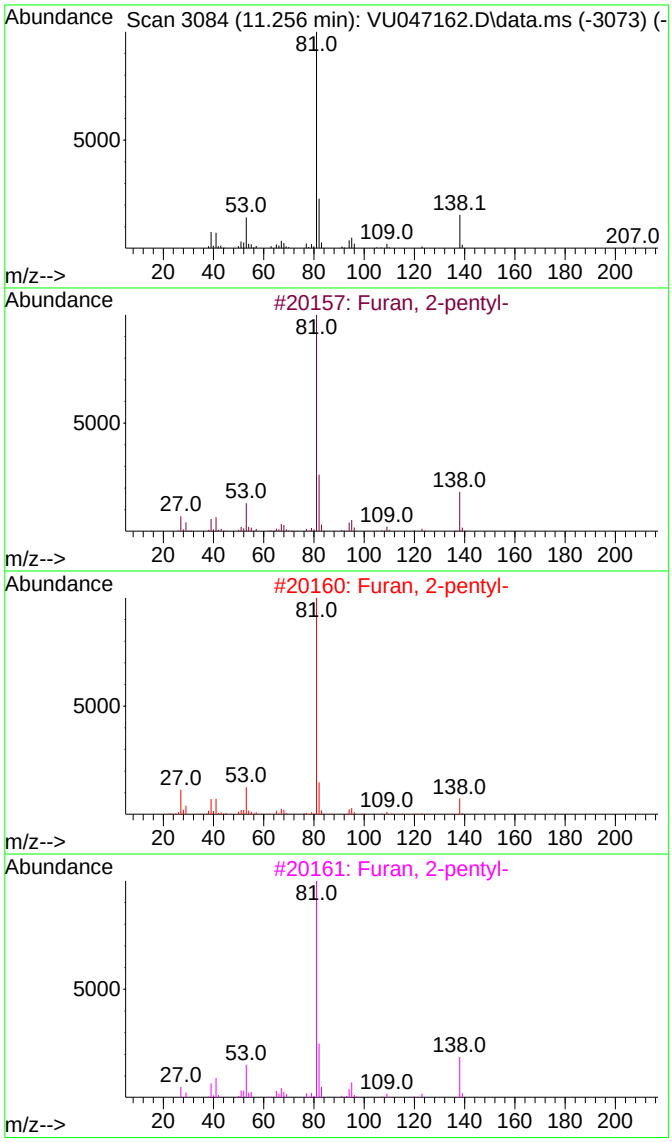
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

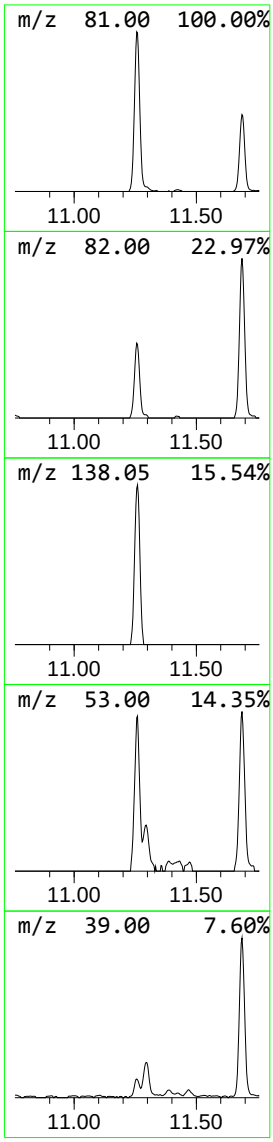
**********

Peak Number 12 Furan, 2-pentyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.256 | 0.61 ug/L | 75438 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Furan, 2-pentyl- | 138 | C9H14O | 003777-69-3 | 91 |
| 2 | Furan, 2-pentyl- | 138 | C9H14O | 003777-69-3 | 90 |
| 3 | Furan, 2-pentyl- | 138 | C9H14O | 003777-69-3 | 83 |
| 4 | 2-n-Butyl furan | 124 | C8H12O | 004466-24-4 | 42 |
| 5 | Cyclohexanol, 4-sec-butyl- | 156 | C10H20O | 006292-20-2 | 39 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021622\
Data File : VU047162.D
Acq On : 16 Feb 2022 15:39
Operator : SY/MD
Sample : N1545-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY01

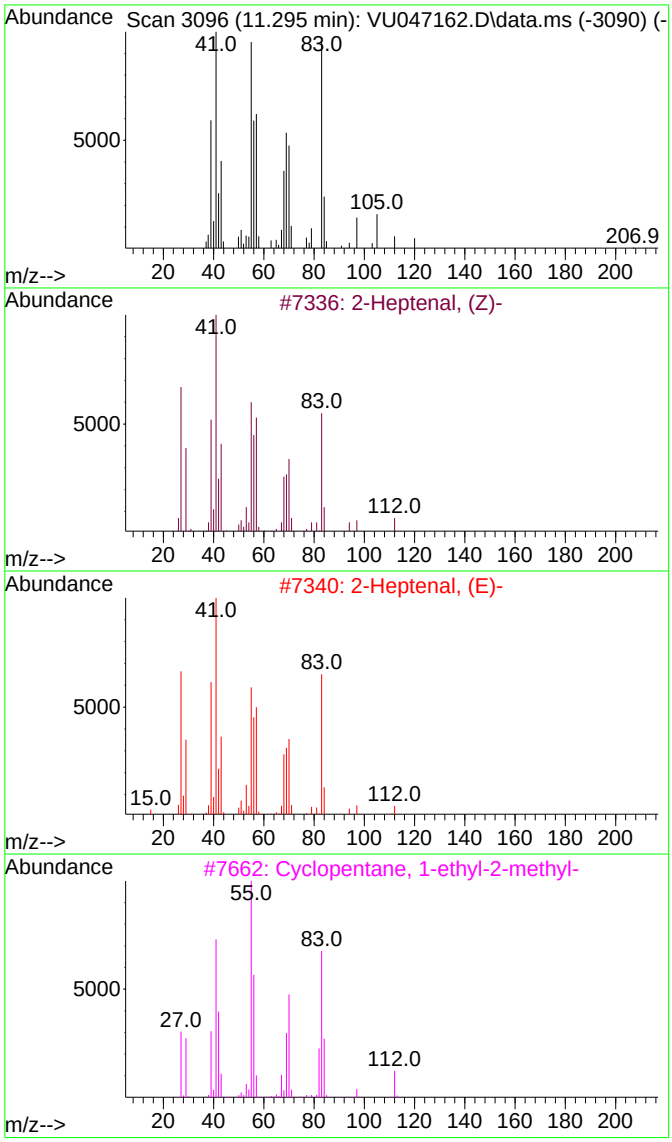
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR021622WMA.M
Quant Title : TRACE VOA SFAM1.0

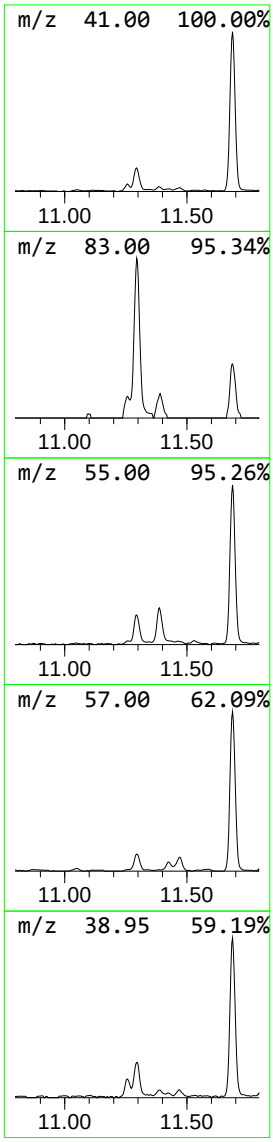
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 13 2-Heptenal, (Z)- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.295 | 0.52 ug/L | 64020 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Heptenal, (Z)- | 112 | C7H12O | 057266-86-1 | 74 |
| 2 | 2-Heptenal, (E)- | 112 | C7H12O | 018829-55-5 | 68 |
| 3 | Cyclopentane, 1-ethyl-2-methyl- | 112 | C8H16 | 003726-46-3 | 49 |
| 4 | Cyclopropane, 1-hexyl-2-propyl-,... | 168 | C12H24 | 074630-58-3 | 43 |
| 5 | Cyclopentane, 1-ethyl-2-methyl-,... | 112 | C8H16 | 000930-89-2 | 43 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021622\
Data File : VU047162.D
Acq On : 16 Feb 2022 15:39
Operator : SY/MD
Sample : N1545-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR021622WMA.M
Quant Title : TRACE VOA SFAM1.0

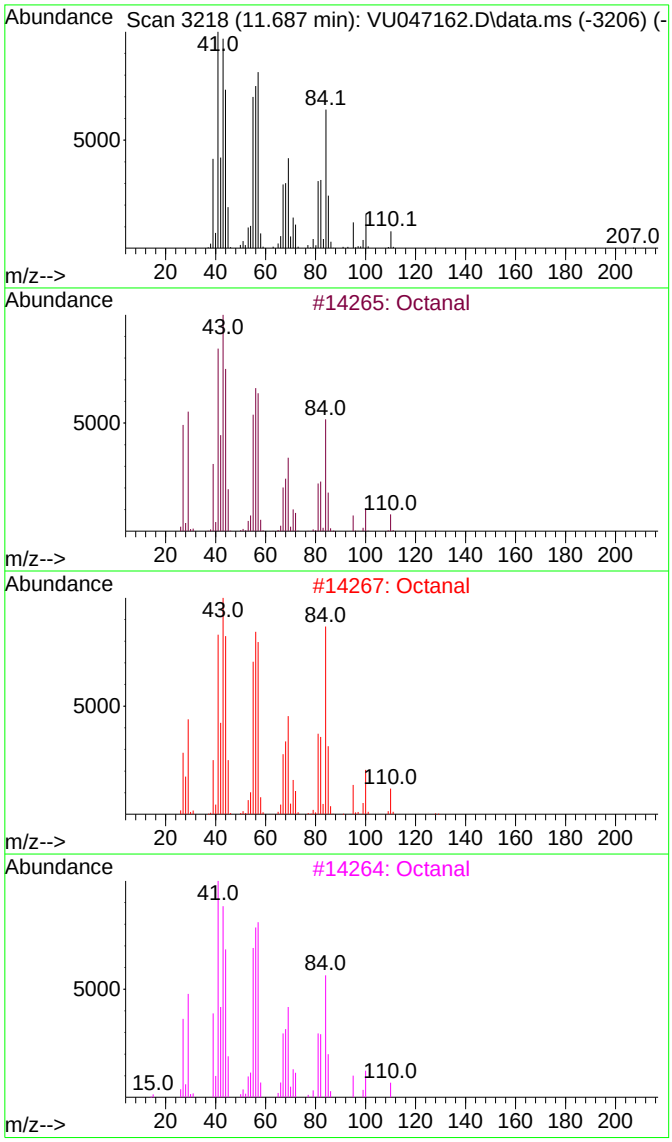
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

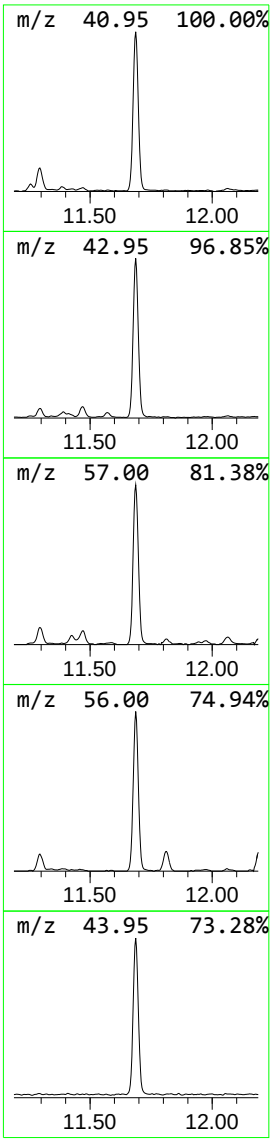
**********

Peak Number 14 Octanal Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.687 | 4.13 ug/L | 509079 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octanal | 128 | C8H16O | 000124-13-0 | 97 |
| 2 | Octanal | 128 | C8H16O | 000124-13-0 | 94 |
| 3 | Octanal | 128 | C8H16O | 000124-13-0 | 91 |
| 4 | Octanal | 128 | C8H16O | 000124-13-0 | 90 |
| 5 | Octanal | 128 | C8H16O | 000124-13-0 | 86 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021622\
Data File : VU047162.D
Acq On : 16 Feb 2022 15:39
Operator : SY/MD
Sample : N1545-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR021622WMA.M
Quant Title : TRACE VOA SFAM1.0

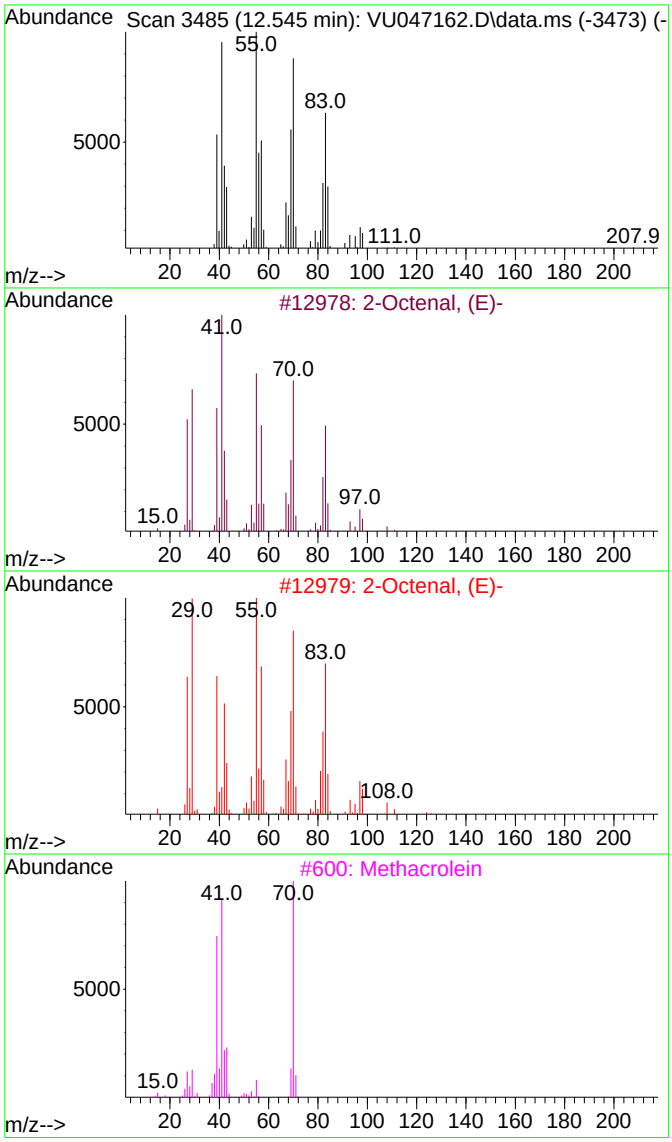
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

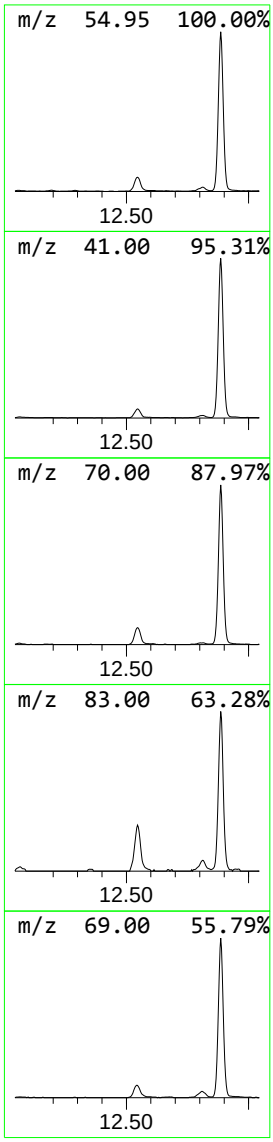
**********

Peak Number 15 2-Octenal, (E)- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.545 | 0.70 ug/L | 85930 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Octenal, (E)- | 126 | C8H14O | 002548-87-0 | 80 |
| 2 | 2-Octenal, (E)- | 126 | C8H14O | 002548-87-0 | 72 |
| 3 | Methacrolein | 70 | C4H6O | 000078-85-3 | 30 |
| 4 | 3-Hexene, (E)- | 84 | C6H12 | 013269-52-8 | 25 |
| 5 | 2-Hexene, (Z)- | 84 | C6H12 | 007688-21-3 | 18 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021622\
Data File : VU047162.D
Acq On : 16 Feb 2022 15:39
Operator : SY/MD
Sample : N1545-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR021622WMA.M
Quant Title : TRACE VOA SFAM1.0

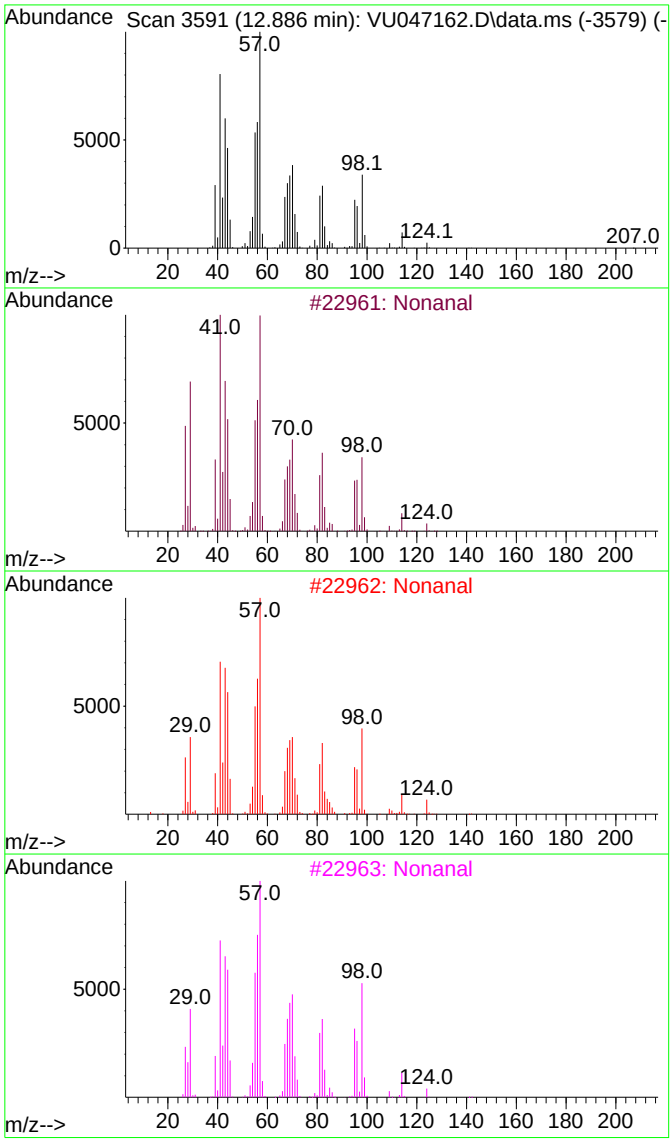
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

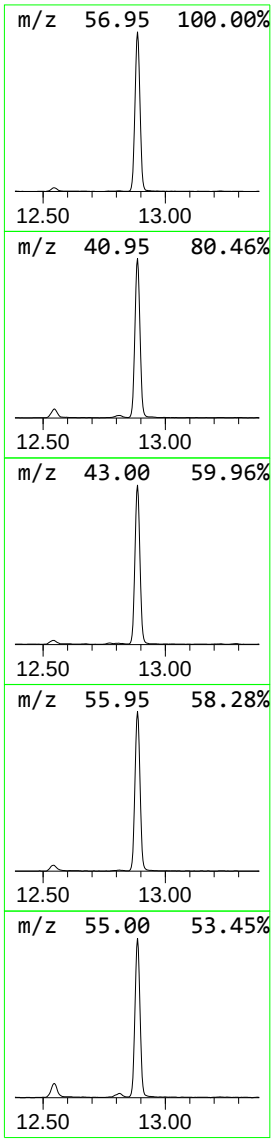
**********

Peak Number 16 Nonanal Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.886 | 10.78 ug/L | 1329510 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonanal | 142 | C9H18O | 000124-19-6 | 91 |
| 2 | Nonanal | 142 | C9H18O | 000124-19-6 | 91 |
| 3 | Nonanal | 142 | C9H18O | 000124-19-6 | 90 |
| 4 | Nonanal | 142 | C9H18O | 000124-19-6 | 90 |
| 5 | Heptane, 2-chloro- | 134 | C7H15Cl | 001001-89-4 | 27 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021622\
Data File : VU047162.D
Acq On : 16 Feb 2022 15:39
Operator : SY/MD
Sample : N1545-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY01

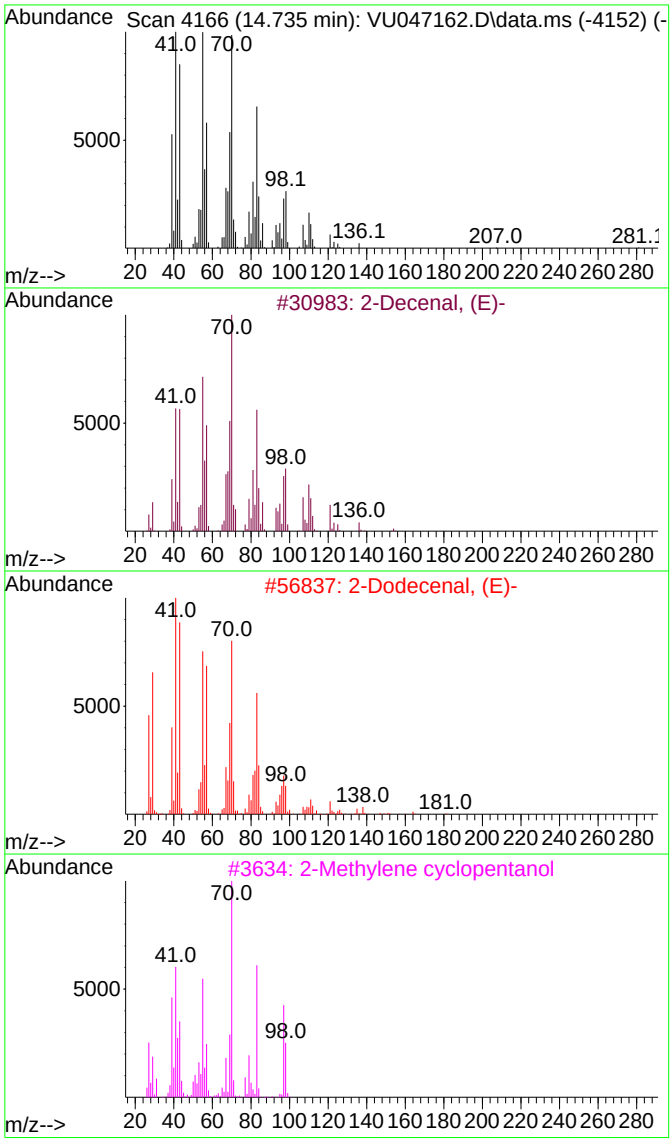
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR021622WMA.M
Quant Title : TRACE VOA SFAM1.0

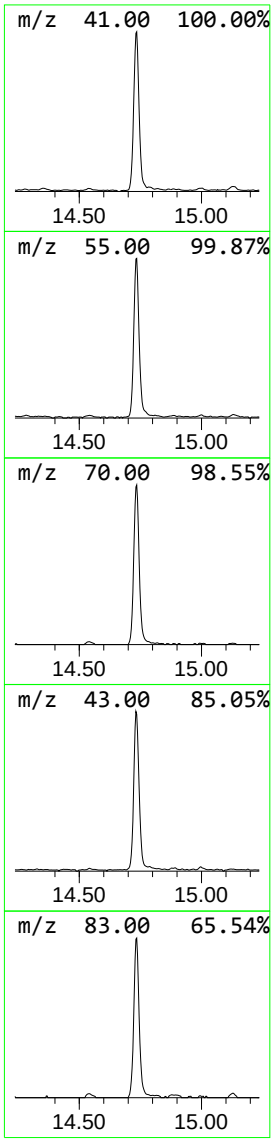
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 17 2-Decenal, (E)- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.735 | 2.68 ug/L | 330340 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Decenal, (E)- | 154 | C10H18O | 003913-81-3 | 90 |
| 2 | 2-Dodecenal, (E)- | 182 | C12H22O | 020407-84-5 | 64 |
| 3 | 2-Methylene cyclopentanol | 98 | C6H10O | 020461-31-8 | 60 |
| 4 | 2-Octenal, (E)- | 126 | C8H14O | 002548-87-0 | 50 |
| 5 | Cyclopentane, 1-ethyl-1-methyl- | 112 | C8H16 | 016747-50-5 | 45 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021622\
Data File : VU047162.D
Acq On : 16 Feb 2022 15:39
Operator : SY/MD
Sample : N1545-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR021622WMA.M
Quant Title : TRACE VOA SFAM1.0

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

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| (DEL) Alkane: S... | 1.362 | 12.0 | ug/L | 965355 | 1 | 6.253 | 403488 | 5.0 |
| (DEL) Alkane: S... | 1.494 | 0.8 | ug/L | 62240 | 1 | 6.253 | 403488 | 5.0 |
| (DEL) Alkane: S... | 1.735 | 0.8 | ug/L | 66865 | 1 | 6.253 | 403488 | 5.0 |
| (DEL) Alkane: S... | 2.002 | 0.6 | ug/L | 48391 | 1 | 6.253 | 403488 | 5.0 |
| (DEL) Alkane: S... | 2.160 | 1.1 | ug/L | 89007 | 1 | 6.253 | 403488 | 5.0 |
| (DEL) Alkane: S... | 2.215 | 1.3 | ug/L | 101916 | 1 | 6.253 | 403488 | 5.0 |
| (DEL) Alkane: C... | 2.420 | 0.6 | ug/L | 45854 | 1 | 6.253 | 403488 | 5.0 |
| Pentanal | 6.880 | 1.1 | ug/L | 84559 | 1 | 6.253 | 403488 | 5.0 |
| Hexanal | 8.787 | 6.9 | ug/L | 741082 | 2 | 9.420 | 538226 | 5.0 |
| Heptanal | 10.343 | 1.8 | ug/L | 194499 | 2 | 9.420 | 538226 | 5.0 |
| Furan, 2-pentyl- | 11.256 | 0.6 | ug/L | 75438 | 3 | 11.812 | 616623 | 5.0 |
| 2-Heptenal, (Z)- | 11.295 | 0.5 | ug/L | 64020 | 3 | 11.812 | 616623 | 5.0 |
| Octanal | 11.687 | 4.1 | ug/L | 509079 | 3 | 11.812 | 616623 | 5.0 |
| 2-Octenal, (E)- | 12.545 | 0.7 | ug/L | 85930 | 3 | 11.812 | 616623 | 5.0 |
| Nonanal | 12.886 | 10.8 | ug/L | 1329510 | 3 | 11.812 | 616623 | 5.0 |
| 2-Decenal, (E)- | 14.735 | 2.7 | ug/L | 330340 | 3 | 11.812 | 616623 | 5.0 |