LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

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\SFAMUTR030422WMA.M
Title : TRACE VOA SFAM1.0

Signal : TIC: VU047394.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.366 | 3 | 8 | 30 | rVB | 546656 | 556249 | 11.72% | 2.422% |
| 2 | 1.498 | 42 | 49 | 59 | rBV | 48380 | 51950 | 1.09% | 0.226% |
| 3 | 1.601 | 71 | 81 | 93 | rBV2 | 251259 | 447651 | 9.43% | 1.949% |
| 4 | 1.742 | 112 | 125 | 148 | rBV3 | 45834 | 101961 | 2.15% | 0.444% |
| 5 | 1.925 | 173 | 182 | 197 | rVV2 | 61084 | 91373 | 1.93% | 0.398% |
| 6 | 2.006 | 200 | 207 | 221 | rVB | 35117 | 48245 | 1.02% | 0.210% |
| 7 | 2.166 | 248 | 257 | 264 | rBV | 64687 | 87187 | 1.84% | 0.380% |
| 8 | 2.215 | 264 | 272 | 293 | rVB2 | 105151 | 171843 | 3.62% | 0.748% |
| 9 | 2.578 | 373 | 385 | 422 | rBV3 | 164064 | 430479 | 9.07% | 1.874% |
| 10 | 3.395 | 623 | 639 | 664 | rVB | 307328 | 750945 | 15.82% | 3.269% |
| 11 | 4.491 | 968 | 980 | 1003 | rVB2 | 21902 | 68751 | 1.45% | 0.299% |
| 12 | 4.674 | 1021 | 1037 | 1051 | rBV | 381816 | 902205 | 19.01% | 3.928% |
| 13 | 5.076 | 1147 | 1162 | 1183 | rVB | 100569 | 227859 | 4.80% | 0.992% |
| 14 | 5.735 | 1349 | 1367 | 1376 | rBV2 | 206315 | 495347 | 10.44% | 2.156% |
| 15 | 5.787 | 1376 | 1383 | 1403 | rVB | 221228 | 461840 | 9.73% | 2.011% |
| 16 | 6.276 | 1520 | 1535 | 1559 | rVB | 199393 | 378536 | 7.98% | 1.648% |
| 17 | 6.565 | 1607 | 1625 | 1644 | rBV | 376800 | 706823 | 14.89% | 3.077% |
| 18 | 6.716 | 1658 | 1672 | 1696 | rBV | 126743 | 248718 | 5.24% | 1.083% |
| 19 | 6.912 | 1717 | 1733 | 1773 | rBV | 222158 | 526127 | 11.09% | 2.290% |
| 20 | 7.584 | 1929 | 1942 | 1956 | rBV | 67617 | 116216 | 2.45% | 0.506% |
| 21 | 7.912 | 2026 | 2044 | 2057 | rBV | 217801 | 372714 | 7.85% | 1.623% |
| 22 | 8.192 | 2121 | 2131 | 2142 | rBV | 42636 | 69741 | 1.47% | 0.304% |
| 23 | 8.562 | 2233 | 2246 | 2260 | rVB | 620666 | 1035245 | 21.81% | 4.507% |
| 24 | 8.652 | 2261 | 2274 | 2297 | rBV | 402101 | 788966 | 16.62% | 3.435% |
| 25 | 8.800 | 2307 | 2320 | 2362 | rVB | 2727343 | 4746225 | 100.00% | 20.662% |
| 26 | 9.423 | 2502 | 2514 | 2530 | rBV | 276687 | 451818 | 9.52% | 1.967% |
| 27 | 10.346 | 2788 | 2801 | 2825 | rVB | 563305 | 876312 | 18.46% | 3.815% |
| 28 | 10.761 | 2919 | 2930 | 2944 | rBV | 131072 | 212453 | 4.48% | 0.925% |
| 29 | 11.259 | 3074 | 3085 | 3090 | rBV | 64617 | 95993 | 2.02% | 0.418% |
| 30 | 11.298 | 3090 | 3097 | 3105 | rVB | 72056 | 109066 | 2.30% | 0.475% |
| 31 | 11.471 | 3143 | 3151 | 3168 | rVB3 | 47587 | 74209 | 1.56% | 0.323% |
| 32 | 11.687 | 3206 | 3218 | 3233 | rBV | 1052119 | 1532787 | 32.29% | 6.673% |
| 33 | 11.812 | 3245 | 3257 | 3275 | rVB | 334622 | 525497 | 11.07% | 2.288% |
| 34 | 12.195 | 3363 | 3376 | 3387 | rBV | 268169 | 425922 | 8.97% | 1.854% |
| 35 | 12.542 | 3460 | 3484 | 3518 | rBV3 | 217727 | 415504 | 8.75% | 1.809% |
| 36 | 12.886 | 3577 | 3591 | 3613 | rBV | 1562446 | 2239772 | 47.19% | 9.751% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

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\SFAMUTR030422WMA.M
Title : TRACE VOA SFAM1.0

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 13.684 | 3831 | 3839 | 3855 | rVB2 | 101820 | 158547 | 3.34% | 0.690% |
| 38 | 13.883 | 3883 | 3901 | 3920 | rBV6 | 35299 | 83020 | 1.75% | 0.361% |
| 39 | 13.983 | 3920 | 3932 | 3946 | rVB2 | 101926 | 153378 | 3.23% | 0.668% |
| 40 | 14.732 | 4153 | 4165 | 4181 | rBV | 698772 | 1018661 | 21.46% | 4.435% |
| 41 | 15.368 | 4352 | 4363 | 4391 | rBV | 121798 | 215769 | 4.55% | 0.939% |
| 42 | 15.709 | 4458 | 4469 | 4492 | rBV2 | 99025 | 170543 | 3.59% | 0.742% |
| 43 | 16.886 | 4823 | 4835 | 4847 | rBV2 | 195138 | 328348 | 6.92% | 1.429% |

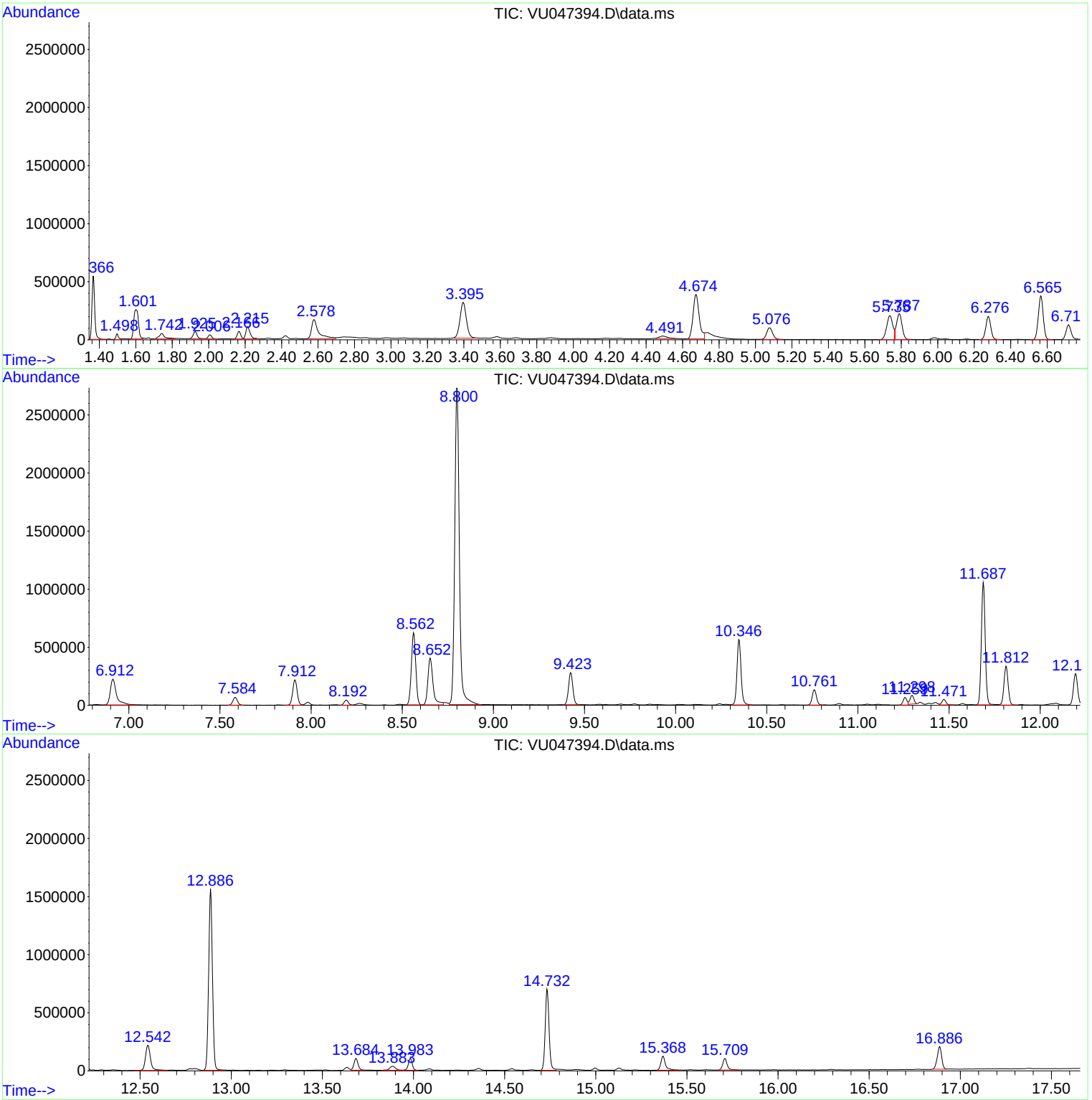
Sum of corrected areas: 22970795

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.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\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

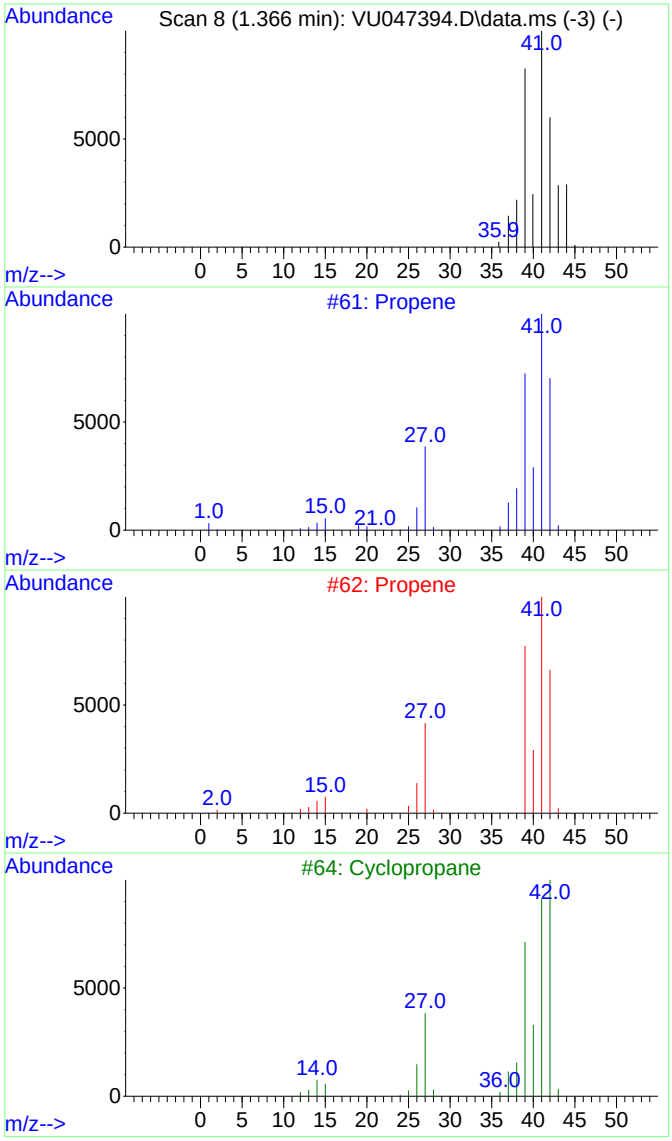
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

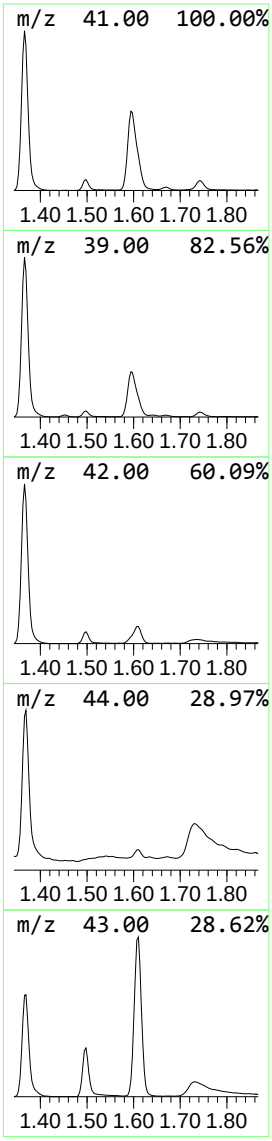
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.366 | 7.35 ug/L | 556249 | 1,4-Difluorobenzene | 6.279 |

| 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\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

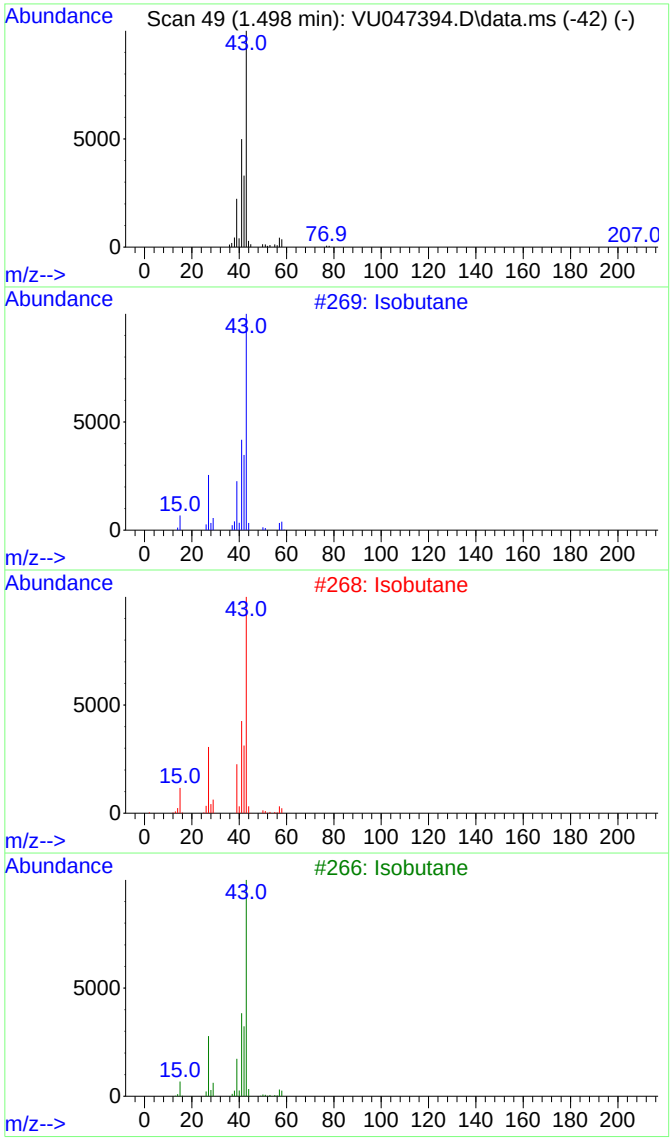
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

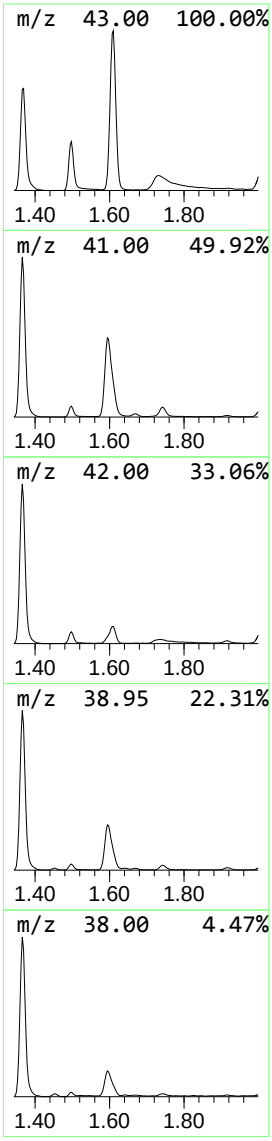
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.498 | 0.69 ug/L | 51950 | 1,4-Difluorobenzene | 6.279 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Isobutane | 58 | C4H10 | 000075-28-5 | 64 |
| 2 | Isobutane | 58 | C4H10 | 000075-28-5 | 64 |
| 3 | Isobutane | 58 | C4H10 | 000075-28-5 | 53 |
| 4 | Isobutane | 58 | C4H10 | 000075-28-5 | 42 |
| 5 | Isobutyl nitrite | 103 | C4H9NO2 | 000542-56-3 | 28 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

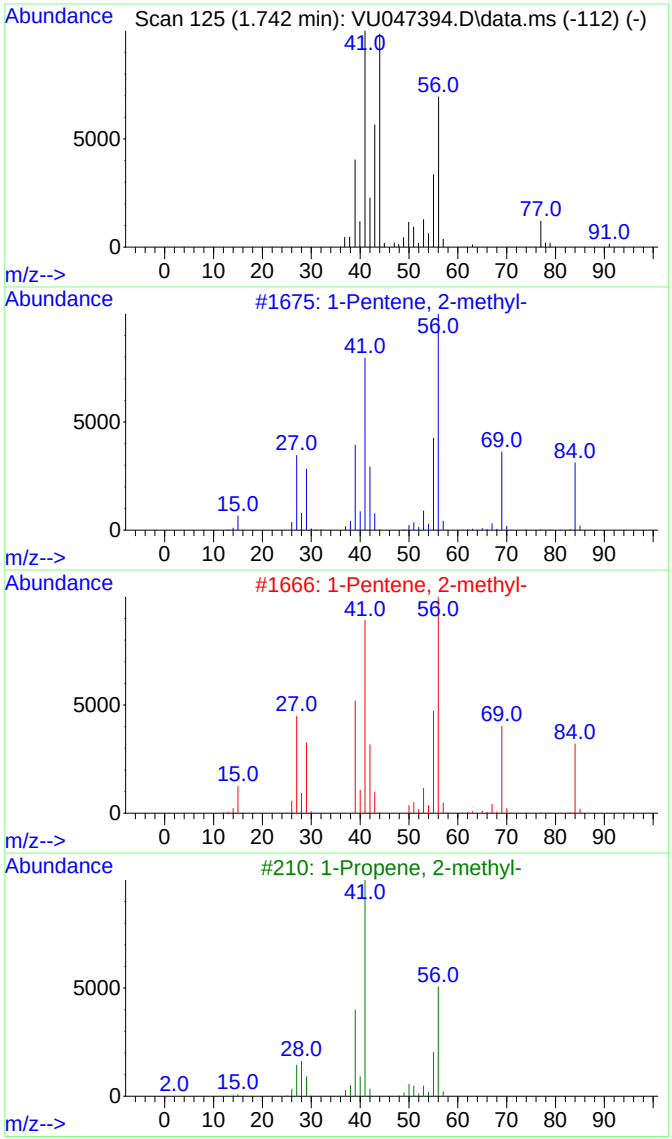
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

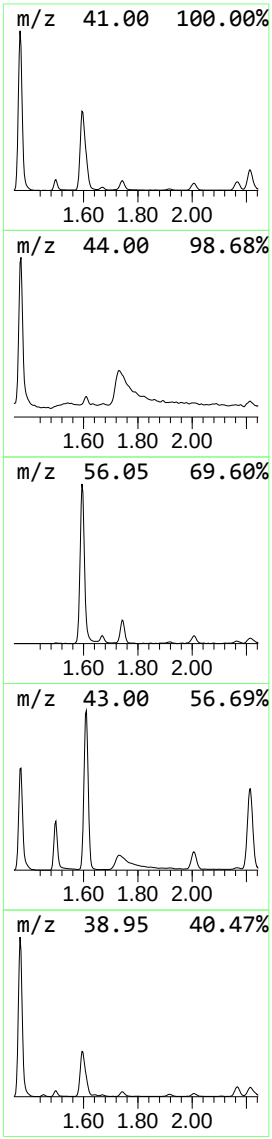
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.742 | 1.35 ug/L | 101961 | 1,4-Difluorobenzene | 6.279 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Pentene, 2-methyl- | 84 | C6H12 | 000763-29-1 | 38 |
| 2 | 1-Pentene, 2-methyl- | 84 | C6H12 | 000763-29-1 | 32 |
| 3 | 1-Propene, 2-methyl- | 56 | C4H8 | 000115-11-7 | 30 |
| 4 | 2-Butene, (Z)- | 56 | C4H8 | 000590-18-1 | 30 |
| 5 | 1-Propene, 2-methyl- | 56 | C4H8 | 000115-11-7 | 30 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

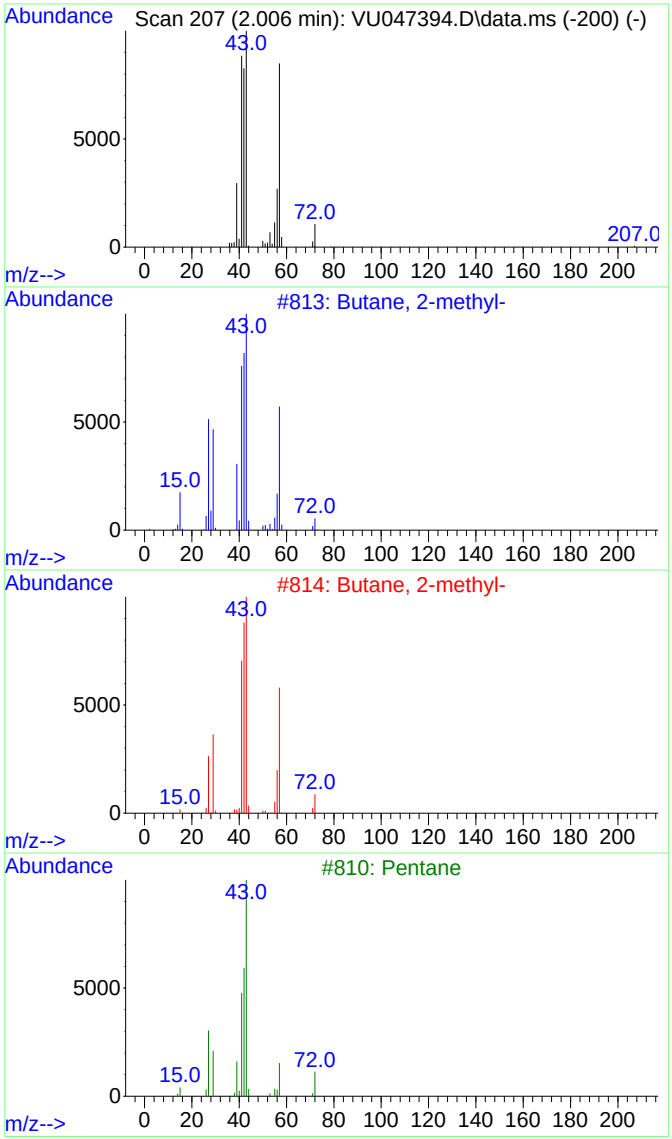
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

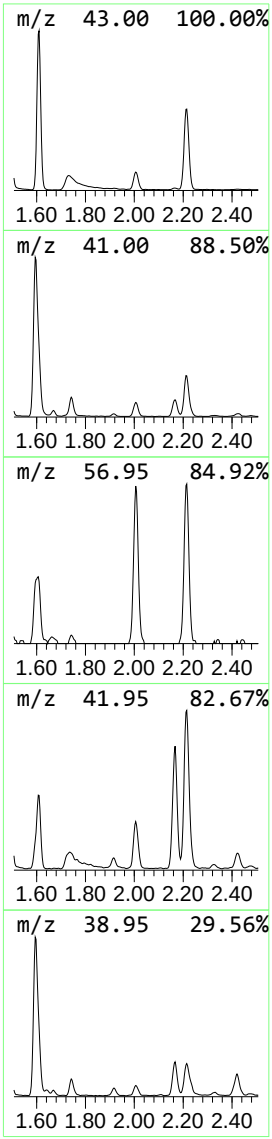
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.006 | 0.64 ug/L | 48245 | 1,4-Difluorobenzene | 6.279 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 86 |
| 2 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 86 |
| 3 | Pentane | 72 | C5H12 | 000109-66-0 | 42 |
| 4 | 3-Buten-2-ol | 72 | C4H8O | 000598-32-3 | 22 |
| 5 | 1-Butanesulfonyl chloride | 156 | C4H9ClO2S | 002386-60-9 | 12 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

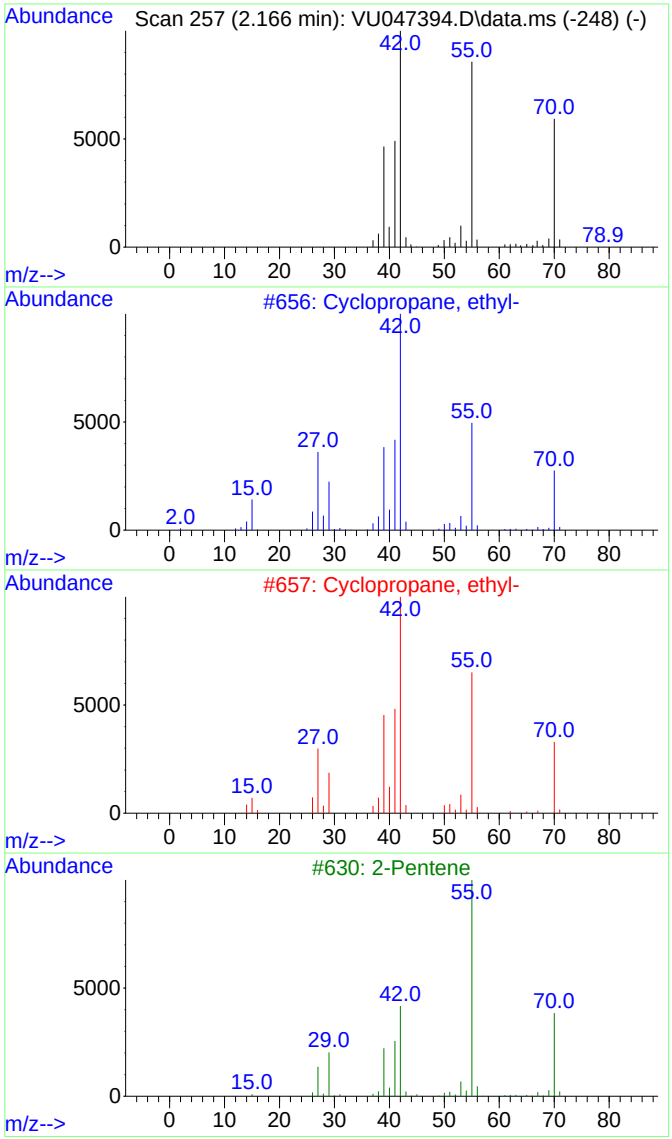
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

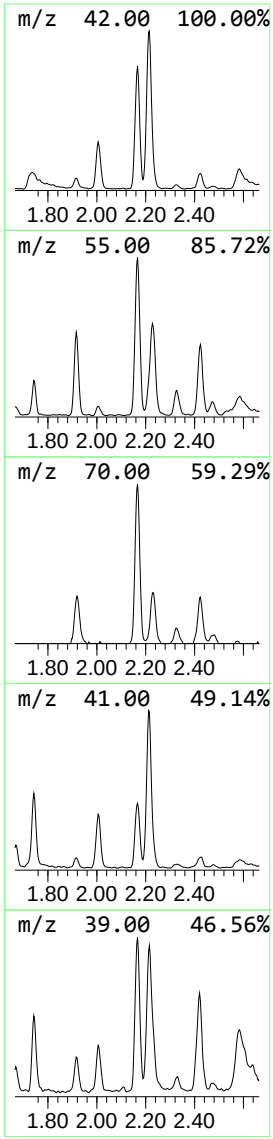
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 (DEL) Alkane: Cyclic2.166 Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.166 | 1.15 ug/L | 87187 | 1,4-Difluorobenzene | 6.279 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopropane, ethyl- | 70 | C5H10 | 001191-96-4 | 90 |
| 2 | Cyclopropane, ethyl- | 70 | C5H10 | 001191-96-4 | 87 |
| 3 | 2-Pentene | 70 | C5H10 | 000109-68-2 | 83 |
| 4 | 2-Pentene, (Z)- | 70 | C5H10 | 000627-20-3 | 83 |
| 5 | Cyclopropane, ethyl- | 70 | C5H10 | 001191-96-4 | 76 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

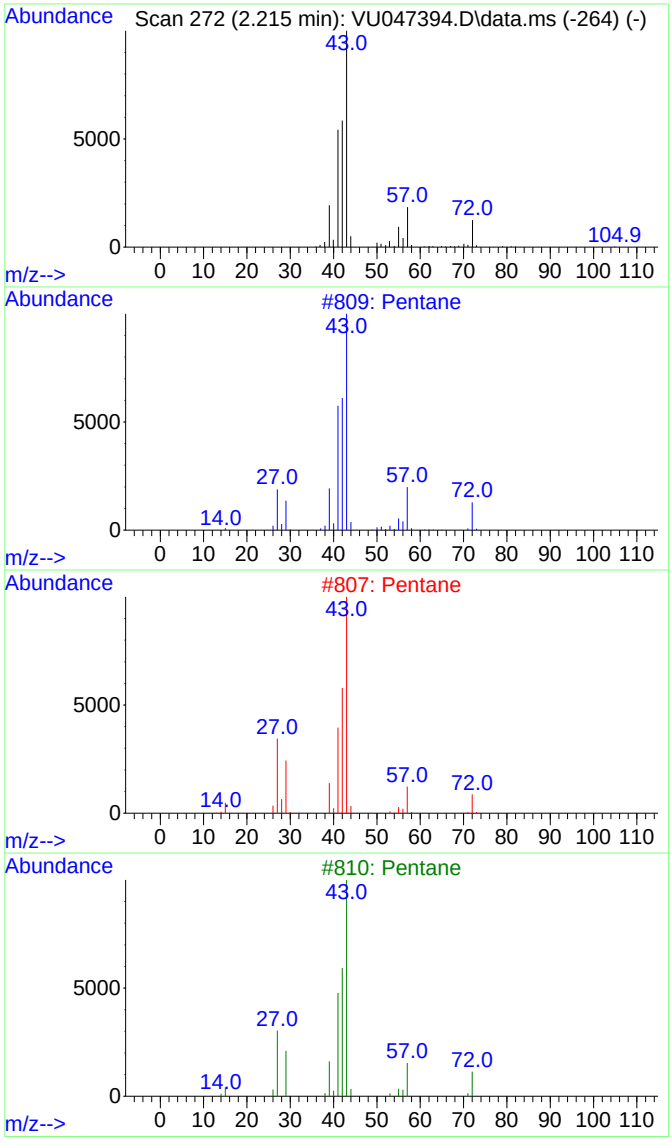
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

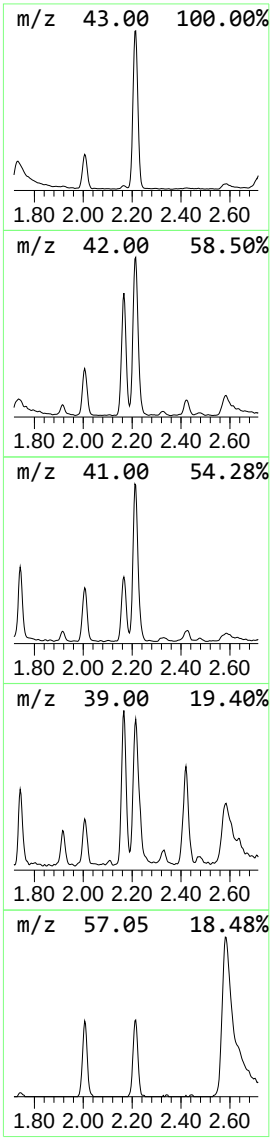
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.215 | 2.27 ug/L | 171843 | 1,4-Difluorobenzene | 6.279 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane | 72 | C5H12 | 000109-66-0 | 91 |
| 2 | Pentane | 72 | C5H12 | 000109-66-0 | 86 |
| 3 | Pentane | 72 | C5H12 | 000109-66-0 | 86 |
| 4 | Pentane | 72 | C5H12 | 000109-66-0 | 86 |
| 5 | Pentane | 72 | C5H12 | 000109-66-0 | 78 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

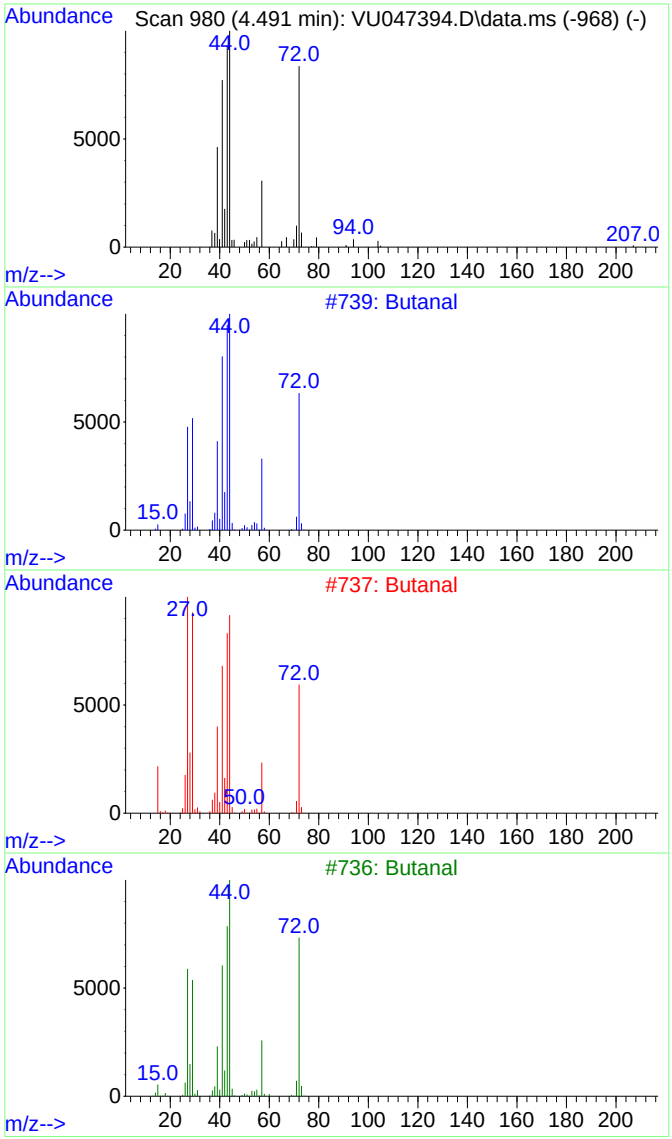
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

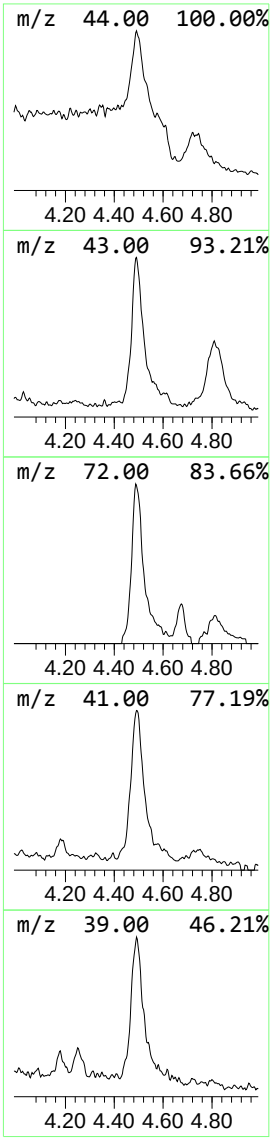
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 7 Butanal Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.491 | 0.91 ug/L | 68751 | 1,4-Difluorobenzene | 6.279 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanal | 72 | C4H8O | 000123-72-8 | 91 |
| 2 | Butanal | 72 | C4H8O | 000123-72-8 | 91 |
| 3 | Butanal | 72 | C4H8O | 000123-72-8 | 74 |
| 4 | Butanal | 72 | C4H8O | 000123-72-8 | 74 |
| 5 | Butanal | 72 | C4H8O | 000123-72-8 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

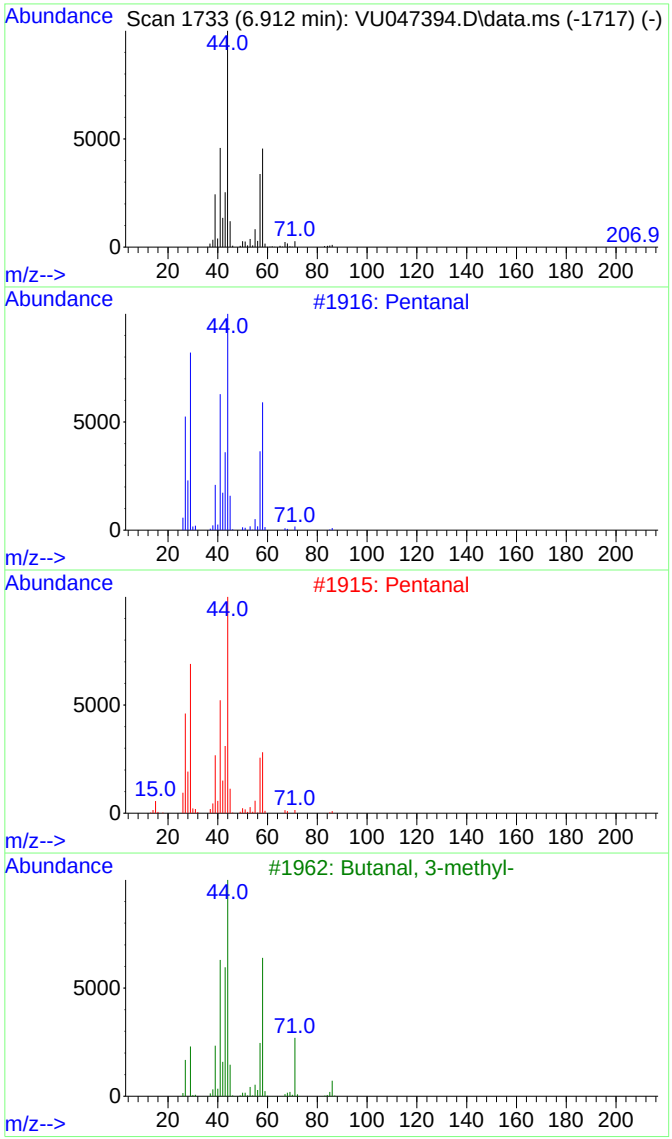
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

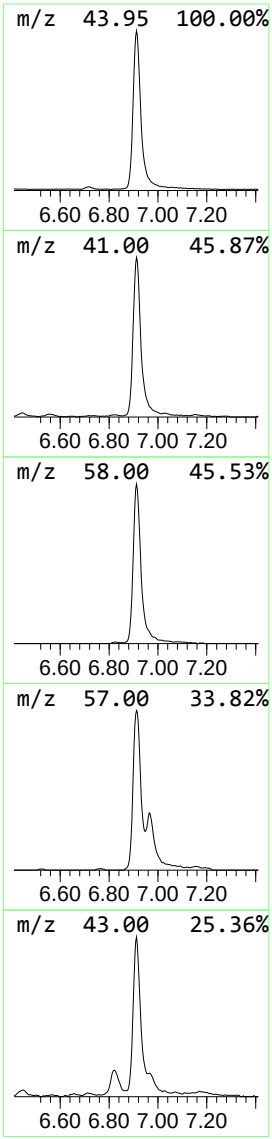
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 8 Pentanal Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.912 | 6.95 ug/L | 526127 | 1,4-Difluorobenzene | 6.279 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentanal | 86 | C5H10O | 000110-62-3 | 90 |
| 2 | Pentanal | 86 | C5H10O | 000110-62-3 | 90 |
| 3 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 83 |
| 4 | Pentanal | 86 | C5H10O | 000110-62-3 | 83 |
| 5 | Pentanal | 86 | C5H10O | 000110-62-3 | 78 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

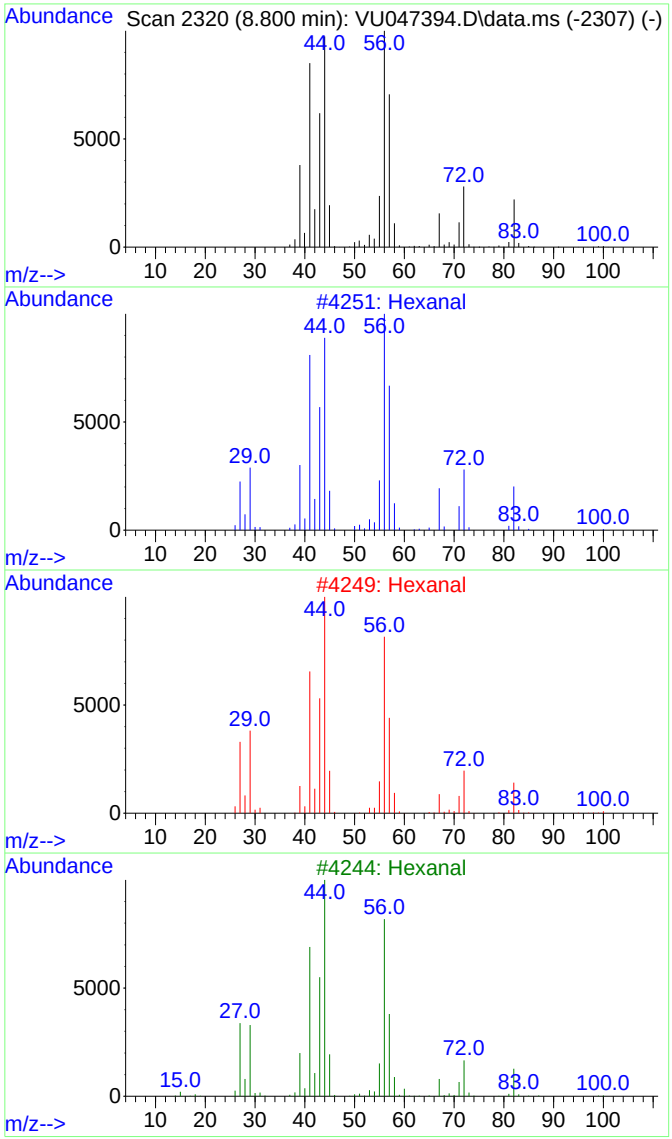
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

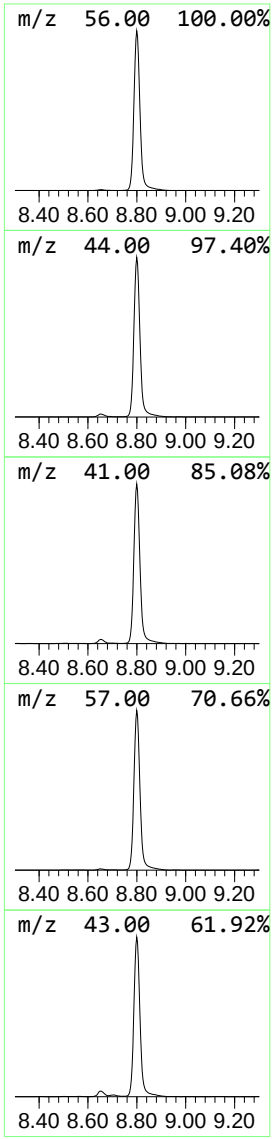
**********

Peak Number 10 Hexanal Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.800 | 52.52 ug/L | 4746230 | Chlorobenzene-d5 | 9.423 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanal | 100 | C6H12O | 000066-25-1 | 94 |
| 2 | Hexanal | 100 | C6H12O | 000066-25-1 | 91 |
| 3 | Hexanal | 100 | C6H12O | 000066-25-1 | 91 |
| 4 | Hexanal | 100 | C6H12O | 000066-25-1 | 90 |
| 5 | Hexanal | 100 | C6H12O | 000066-25-1 | 83 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

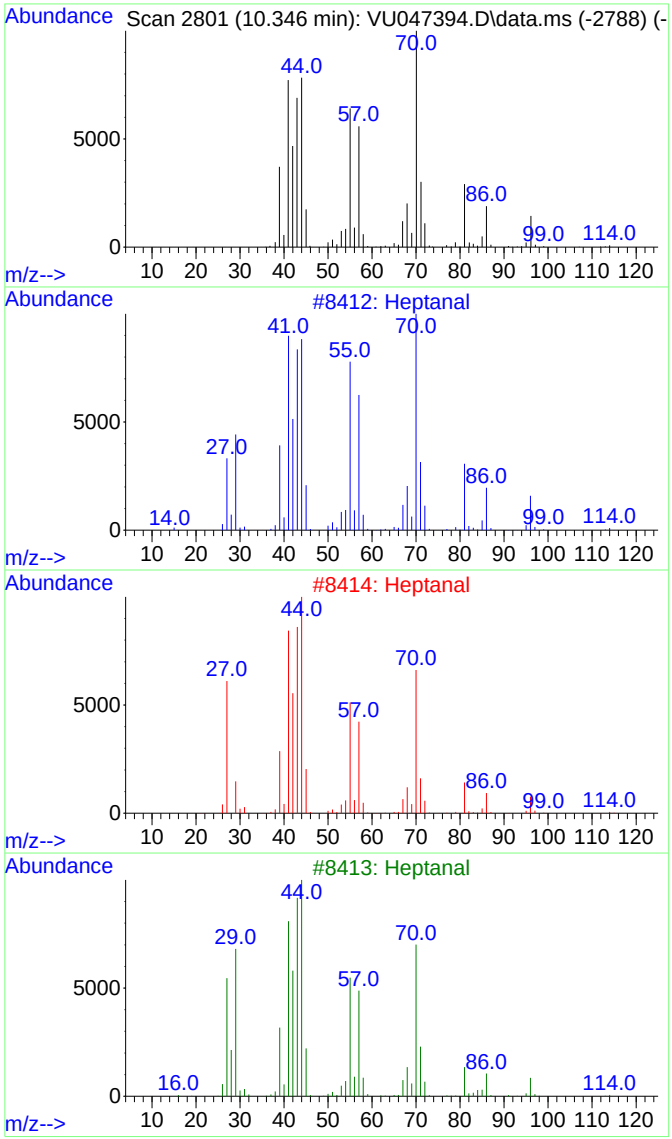
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

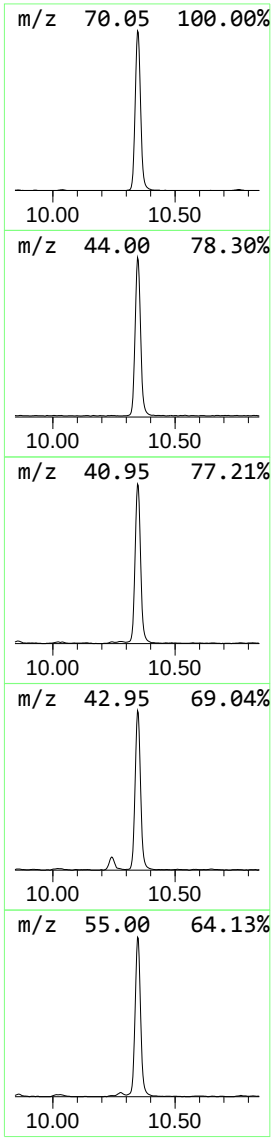
**********

Peak Number 11 Heptanal Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.346 | 9.70 ug/L | 876312 | Chlorobenzene-d5 | 9.423 |

| 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 | 95 |
| 4 | Heptanal | 114 | C7H14O | 000111-71-7 | 70 |
| 5 | Heptanal | 114 | C7H14O | 000111-71-7 | 58 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

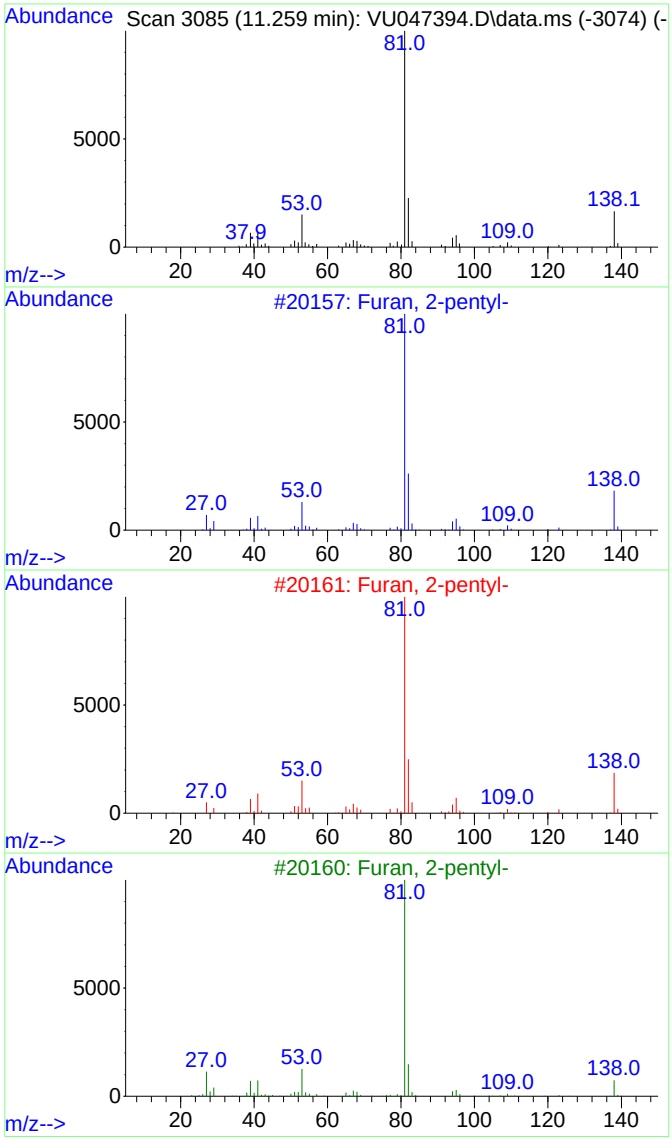
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

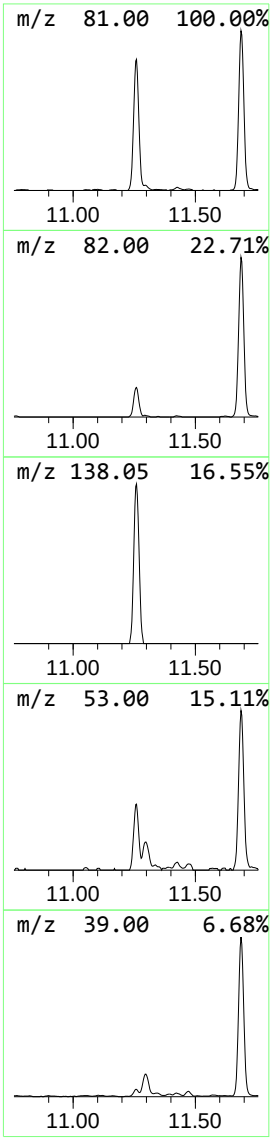
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 12 Furan, 2-pentyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.259 | 0.91 ug/L | 95993 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Furan, 2-pentyl- | 138 | C9H14O | 003777-69-3 | 94 |
| 2 | Furan, 2-pentyl- | 138 | C9H14O | 003777-69-3 | 90 |
| 3 | Furan, 2-pentyl- | 138 | C9H14O | 003777-69-3 | 80 |
| 4 | Furan, 2-propyl- | 110 | C7H10O | 004229-91-8 | 50 |
| 5 | 2-n-Butyl furan | 124 | C8H12O | 004466-24-4 | 42 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

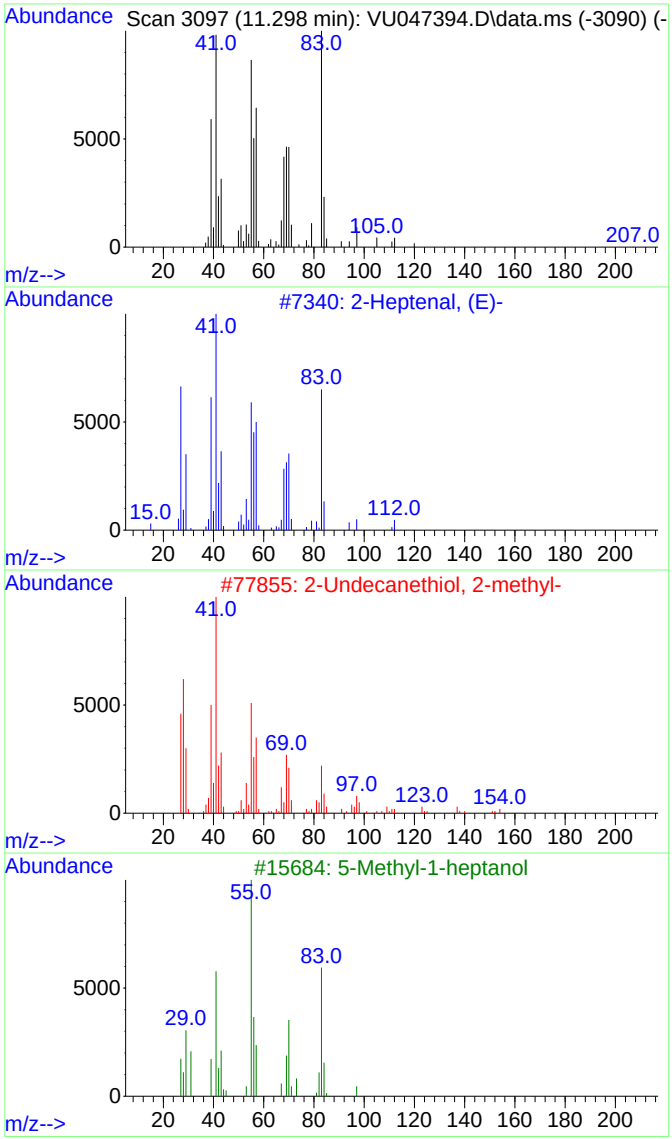
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

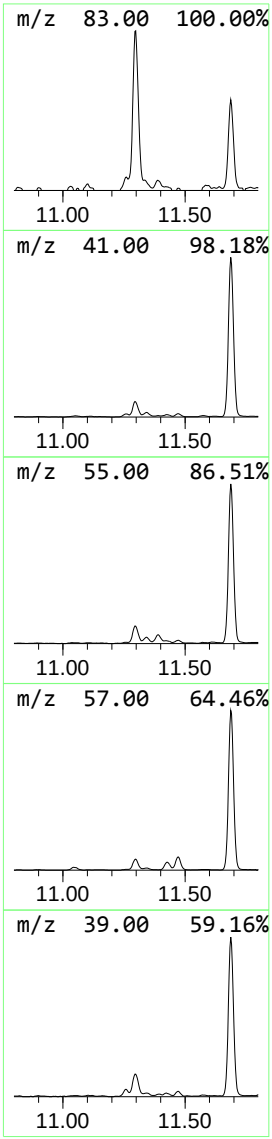
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 13 2-Heptenal, (E)- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.298 | 1.04 ug/L | 109066 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Heptenal, (E)- | 112 | C7H12O | 018829-55-5 | 64 |
| 2 | 2-Undecanethiol, 2-methyl- | 202 | C12H26S | 010059-13-9 | 53 |
| 3 | 5-Methyl-1-heptanol | 130 | C8H18O | 007212-53-5 | 47 |
| 4 | 3-Ethylcyclopentanone | 112 | C7H12O | 010264-55-8 | 46 |
| 5 | 1,2-Cyclohexanedione | 112 | C6H8O2 | 000765-87-7 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

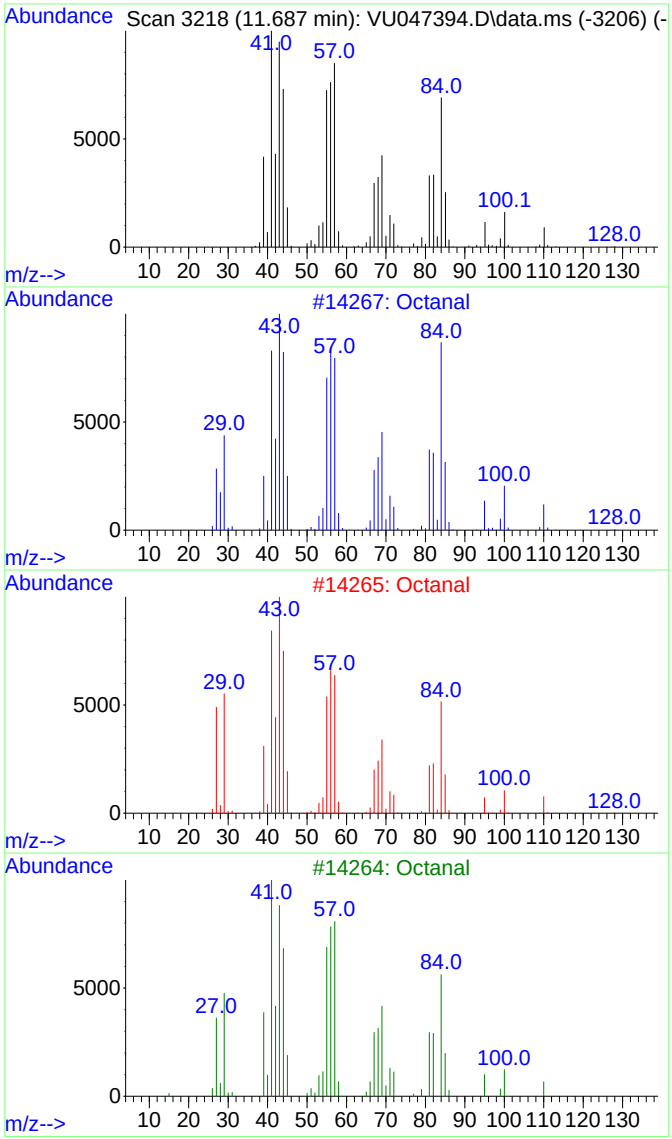
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

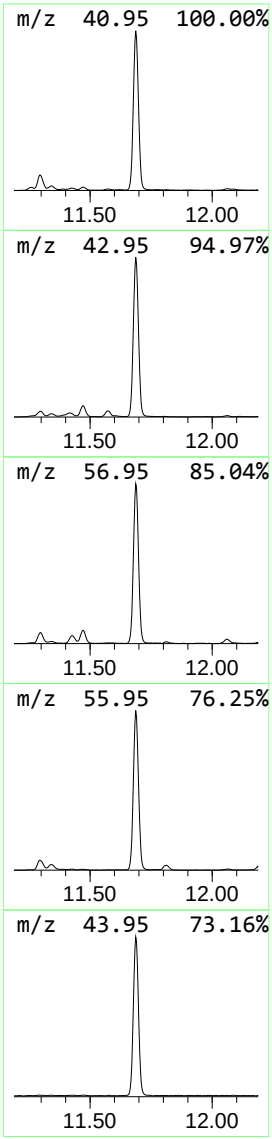
**********

Peak Number 14 Octanal Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.687 | 14.58 ug/L | 1532790 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octanal | 128 | C8H16O | 000124-13-0 | 98 |
| 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\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

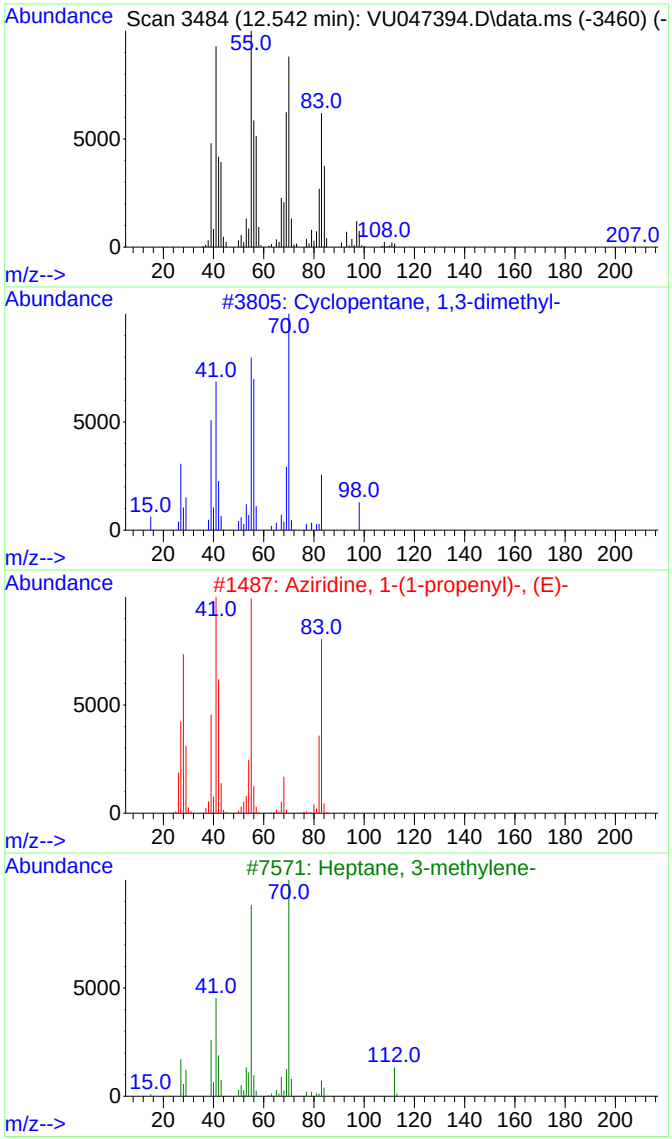
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

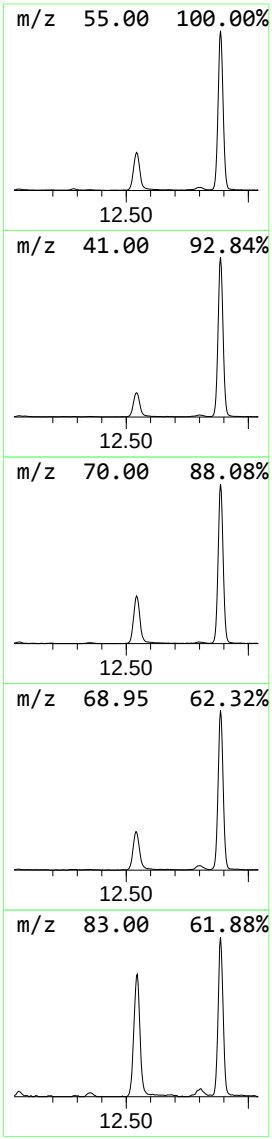
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 15 (DEL) Alkane: Cyclic12.542 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.542 | 3.95 ug/L | 415504 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1,3-dimethyl- | 98 | C7H14 | 002453-00-1 | 43 |
| 2 | Aziridine, 1-(1-propenyl)-, (E)- | 83 | C5H9N | 080839-91-4 | 43 |
| 3 | Heptane, 3-methylene- | 112 | C8H16 | 001632-16-2 | 30 |
| 4 | 1-Heptene, 3-methyl- | 112 | C8H16 | 004810-09-7 | 27 |
| 5 | 2-Hexenal | 98 | C6H10O | 000505-57-7 | 25 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

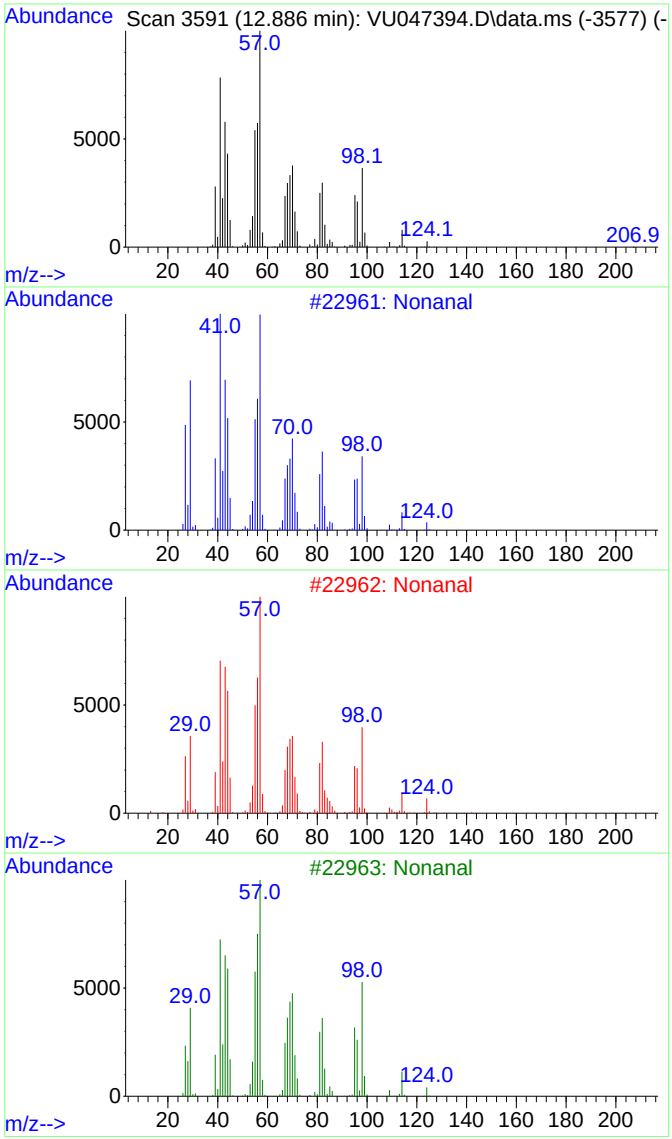
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

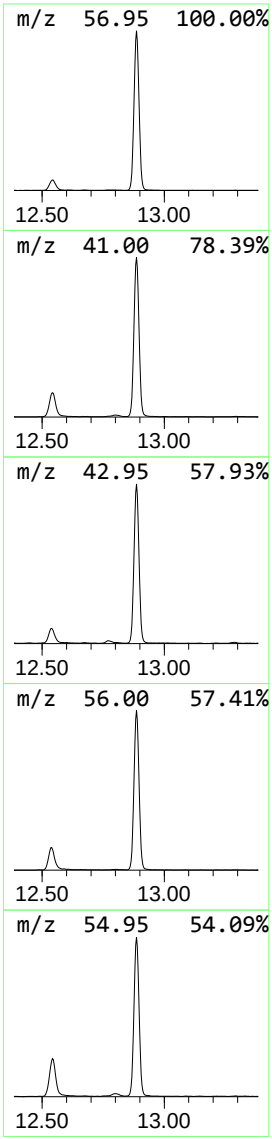
**********

Peak Number 16 Nonanal Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.886 | 21.31 ug/L | 2239770 | 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 | 91 |
| 4 | Nonanal | 142 | C9H18O | 000124-19-6 | 83 |
| 5 | Cyclohexanol, 2-methyl-, trans- | 114 | C7H14O | 007443-52-9 | 22 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

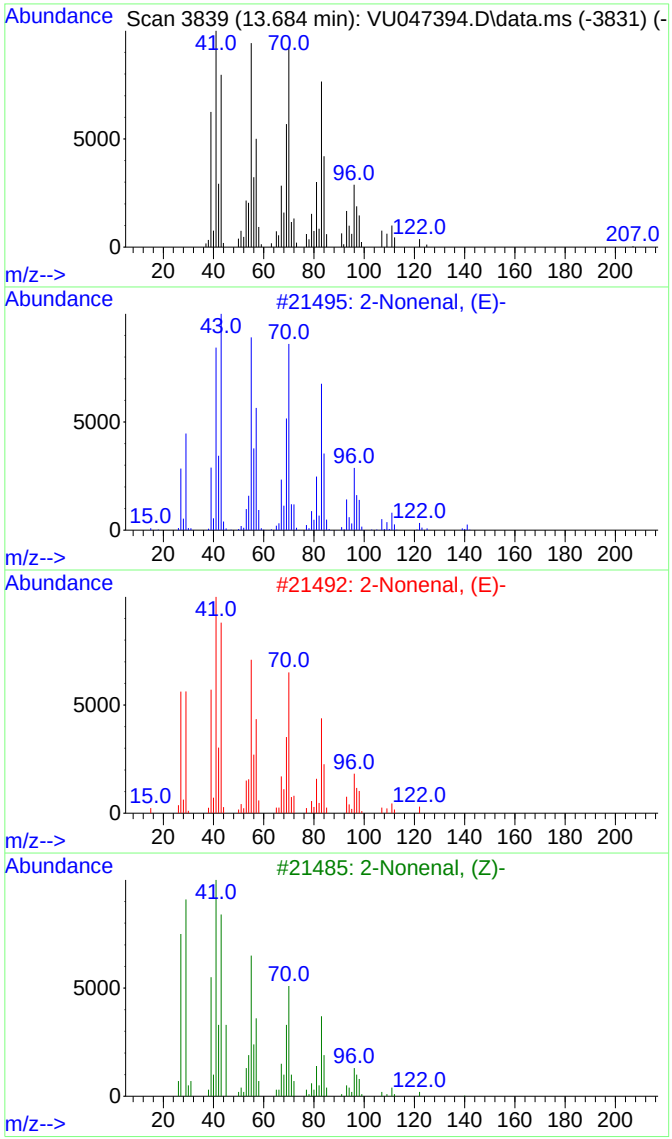
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

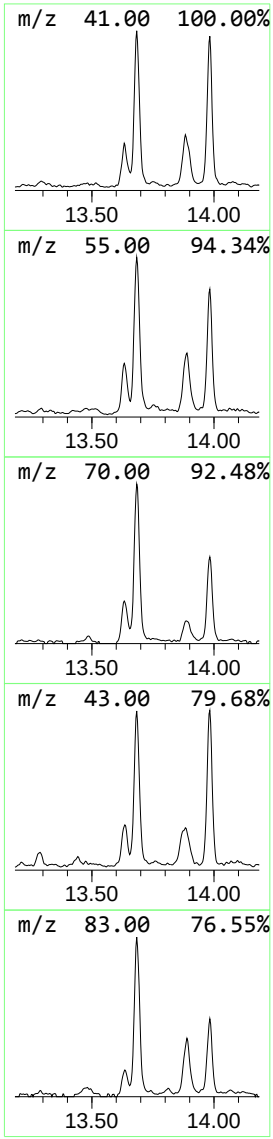
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 17 2-Nonenal, (E)- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.684 | 1.51 ug/L | 158547 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Nonenal, (E)- | 140 | C9H16O | 018829-56-6 | 91 |
| 2 | 2-Nonenal, (E)- | 140 | C9H16O | 018829-56-6 | 78 |
| 3 | 2-Nonenal, (Z)- | 140 | C9H16O | 060784-31-8 | 72 |
| 4 | 2-Methylene cyclopentanol | 98 | C6H10O | 020461-31-8 | 38 |
| 5 | 4-Heptenal, (Z)- | 112 | C7H12O | 006728-31-0 | 35 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

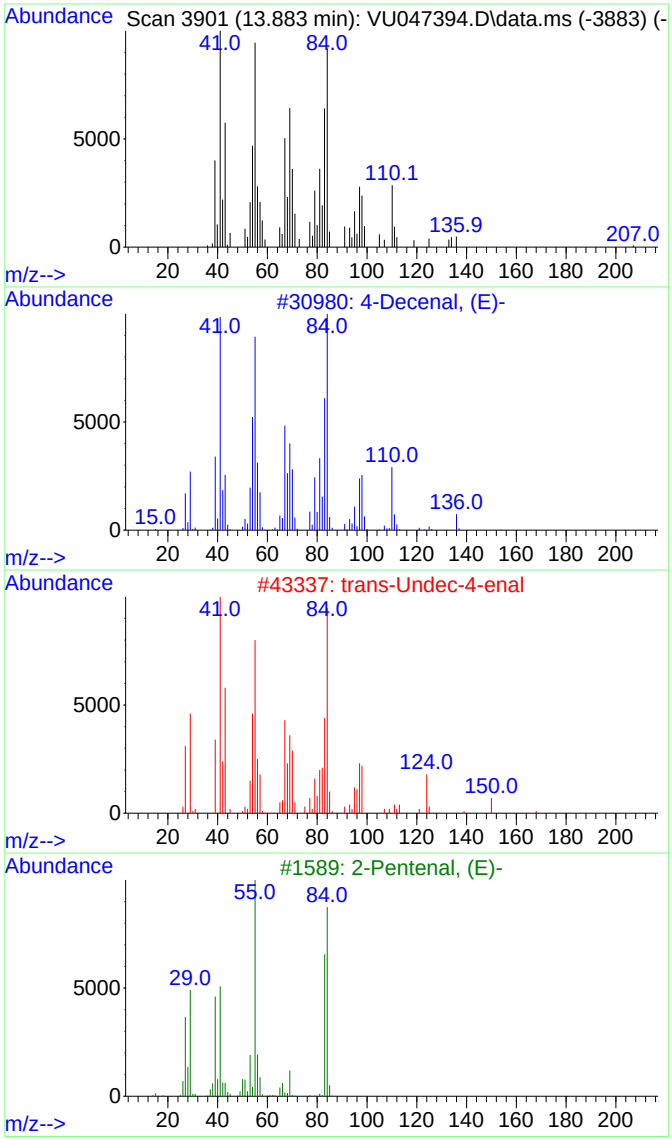
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

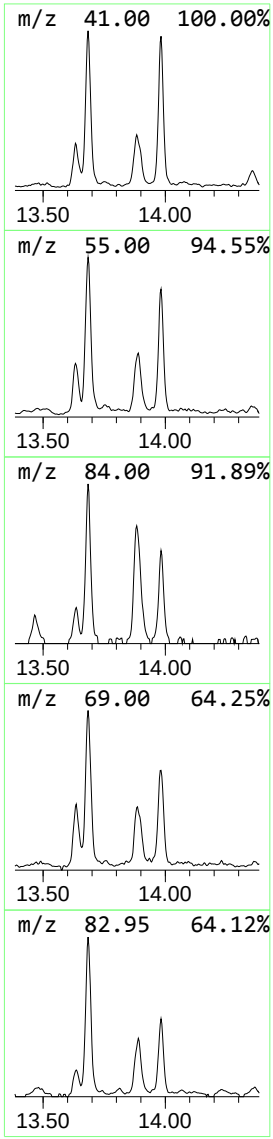
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 18 4-Decenal, (E)- Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.883 | 0.79 ug/L | 83020 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Decenal, (E)- | 154 | C10H18O | 065405-70-1 | 90 |
| 2 | trans-Undec-4-enal | 168 | C11H20O | 068820-35-9 | 80 |
| 3 | 2-Pentenal, (E)- | 84 | C5H8O | 001576-87-0 | 38 |
| 4 | Furan, 2,3-dihydro-4-methyl- | 84 | C5H8O | 034314-83-5 | 38 |
| 5 | Bicyclo[3.2.0]heptan-2-one | 110 | C7H10O | 029268-42-6 | 30 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

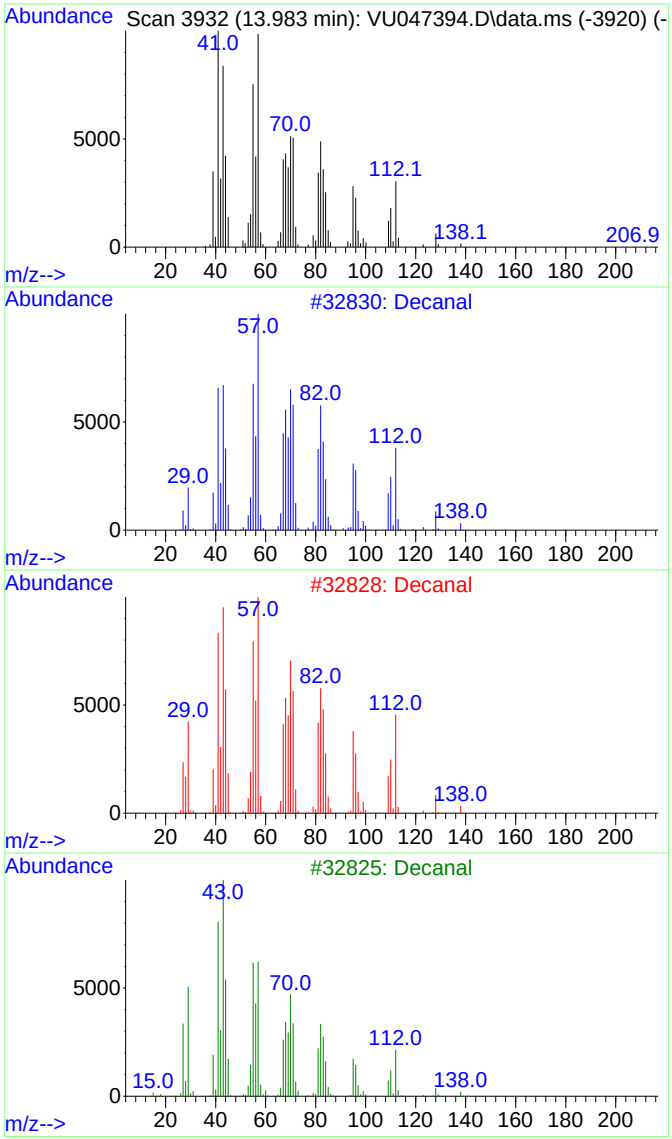
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

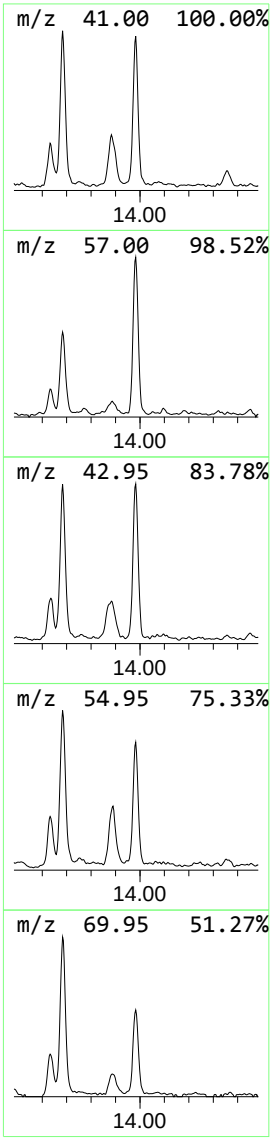
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 19 Decanal Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.983 | 1.46 ug/L | 153378 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decanal | 156 | C10H20O | 000112-31-2 | 91 |
| 2 | Decanal | 156 | C10H20O | 000112-31-2 | 91 |
| 3 | Decanal | 156 | C10H20O | 000112-31-2 | 91 |
| 4 | Decanal | 156 | C10H20O | 000112-31-2 | 83 |
| 5 | Decanal | 156 | C10H20O | 000112-31-2 | 80 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

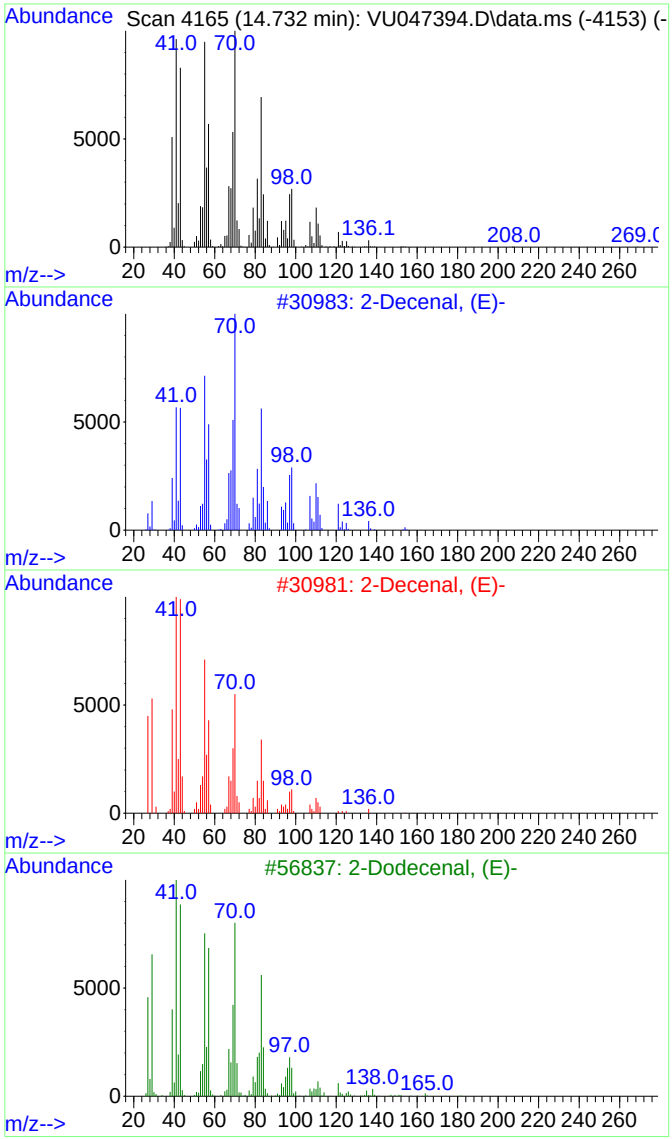
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

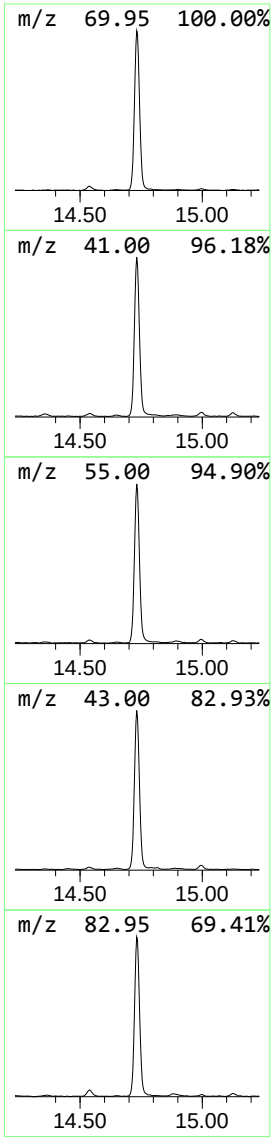
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 20 2-Decenal, (E)- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.732 | 9.69 ug/L | 1018660 | 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-Decenal, (E)- | 154 | C10H18O | 003913-81-3 | 80 |
| 3 | 2-Dodecenal, (E)- | 182 | C12H22O | 020407-84-5 | 64 |
| 4 | 2-Tridecenal, (E)- | 196 | C13H24O | 007069-41-2 | 59 |
| 5 | 2-Cyclohexen-1-ol | 98 | C6H10O | 000822-67-3 | 53 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

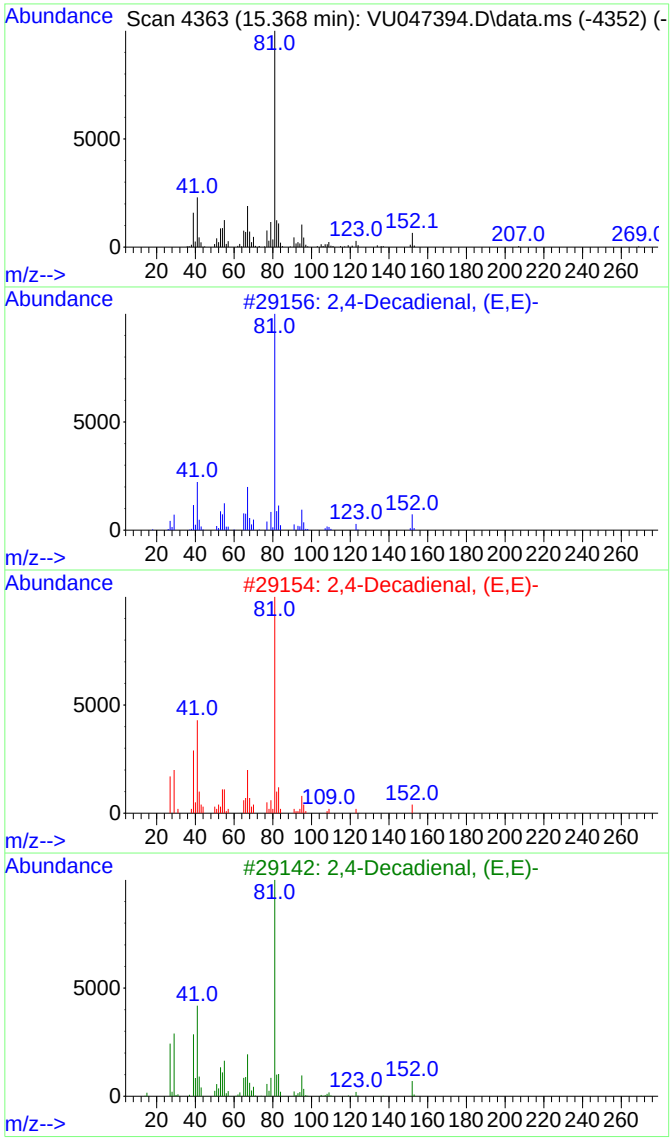
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

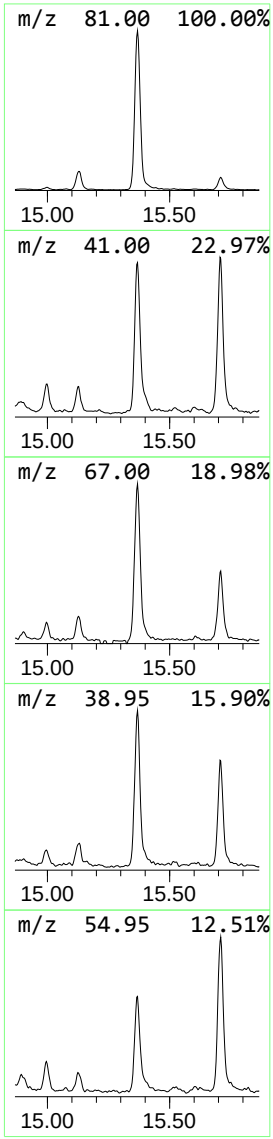
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 21 2,4-Decadienal, (E,E)- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.368 | 2.05 ug/L | 215769 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4-Decadienal, (E,E)- | 152 | C10H16O | 025152-84-5 | 94 |
| 2 | 2,4-Decadienal, (E,E)- | 152 | C10H16O | 025152-84-5 | 93 |
| 3 | 2,4-Decadienal, (E,E)- | 152 | C10H16O | 025152-84-5 | 90 |
| 4 | 2,4-Decadienal, (E,E)- | 152 | C10H16O | 025152-84-5 | 90 |
| 5 | 2,4-Decadienal | 152 | C10H16O | 002363-88-4 | 90 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

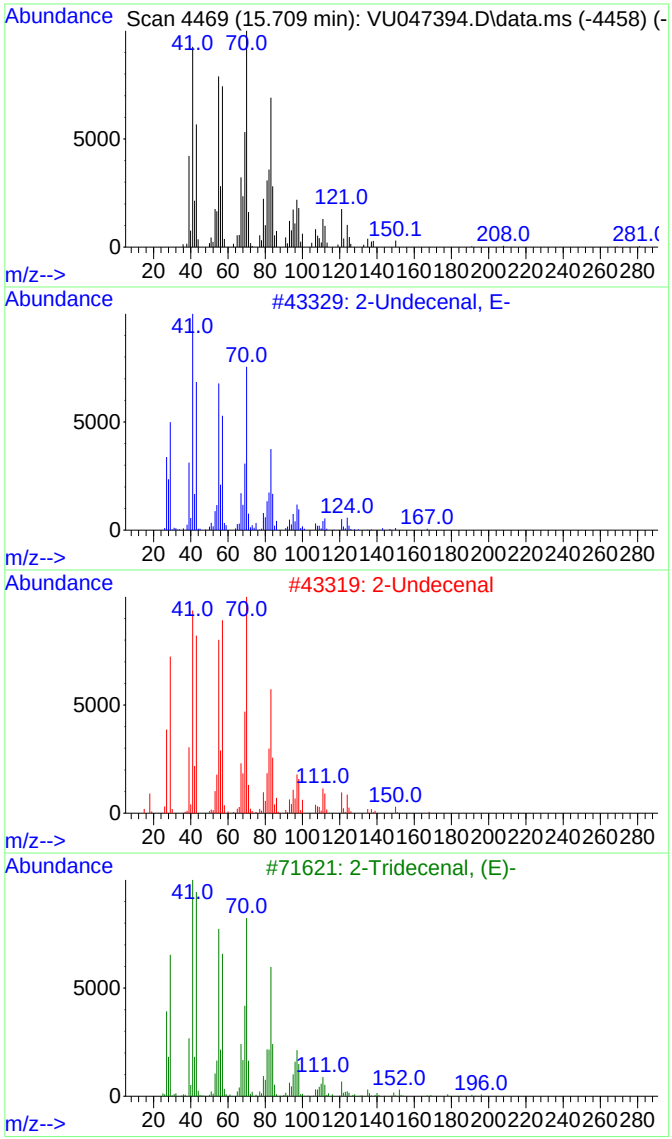
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

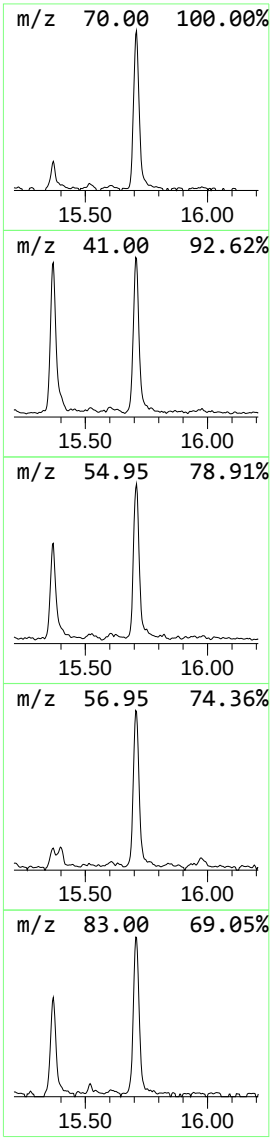
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 22 2-Undecenal, E- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.709 | 1.62 ug/L | 170543 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Undecenal, E- | 168 | C11H20O | 053448-07-0 | 83 |
| 2 | 2-Undecenal | 168 | C11H20O | 002463-77-6 | 80 |
| 3 | 2-Tridecenal, (E)- | 196 | C13H24O | 007069-41-2 | 80 |
| 4 | 2-Octenal, (E)- | 126 | C8H14O | 002548-87-0 | 52 |
| 5 | 2-Dodecenal, (E)- | 182 | C12H22O | 020407-84-5 | 47 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

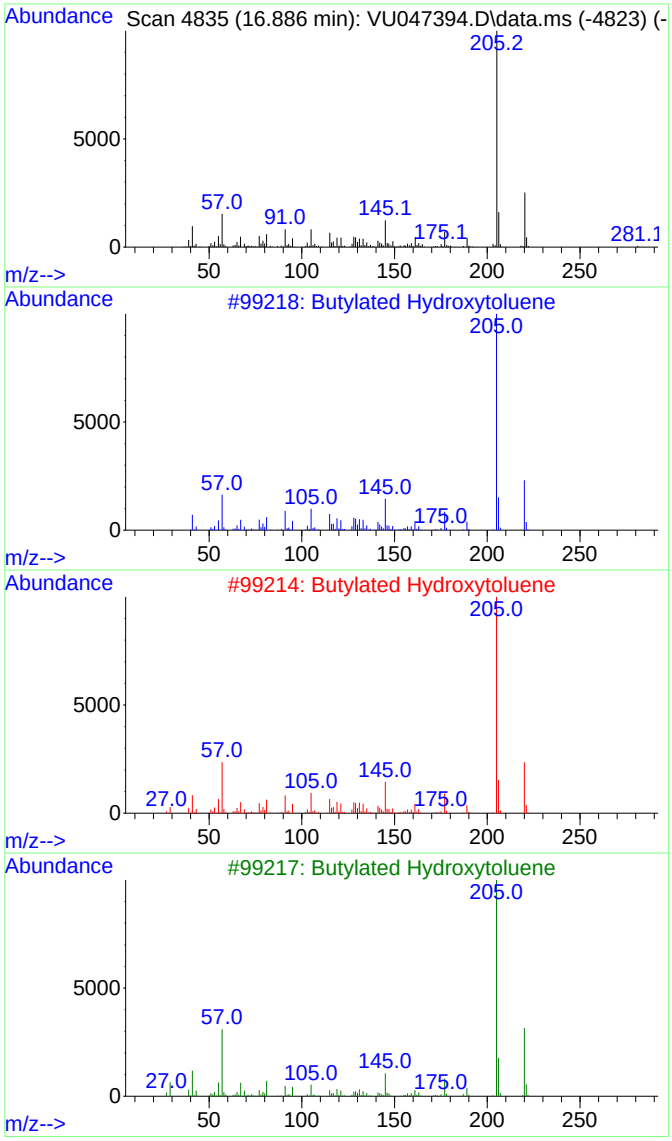
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
Quant Title : TRACE VOA SFAM1.0

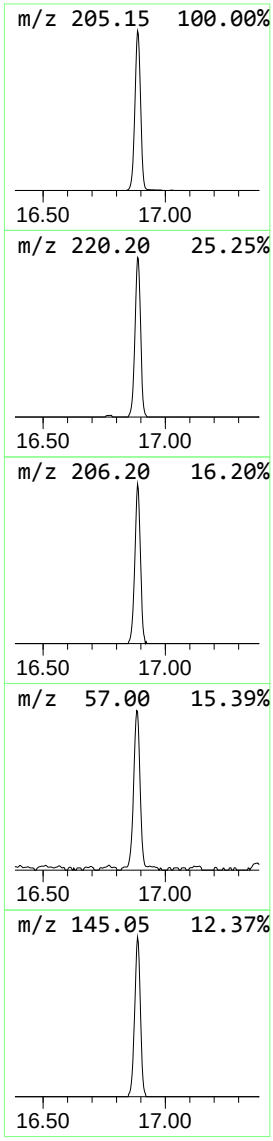
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 23 Butylated Hydroxytoluene Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.886 | 3.12 ug/L | 328348 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butylated Hydroxytoluene | 220 | C15H24O | 000128-37-0 | 99 |
| 2 | Butylated Hydroxytoluene | 220 | C15H24O | 000128-37-0 | 98 |
| 3 | Butylated Hydroxytoluene | 220 | C15H24O | 000128-37-0 | 98 |
| 4 | Butylated Hydroxytoluene | 220 | C15H24O | 000128-37-0 | 96 |
| 5 | Ethyl 4-oxo-2-phenylpentanoate | 220 | C13H16O3 | 1000427-11-2 | 94 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
Data File : VU047394.D
Acq On : 08 Mar 2022 16:14
Operator : SY/MD
Sample : N1840-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BFY21

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.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... | 1.366 | 7.3 | ug/L | 556249 | 1 | 6.279 | 378536 | 5.0 |
| (DEL) Alkane: S... | 1.498 | 0.7 | ug/L | 51950 | 1 | 6.279 | 378536 | 5.0 |
| (DEL) Alkane: S... | 1.742 | 1.4 | ug/L | 101961 | 1 | 6.279 | 378536 | 5.0 |
| (DEL) Alkane: S... | 2.006 | 0.6 | ug/L | 48245 | 1 | 6.279 | 378536 | 5.0 |
| (DEL) Alkane: C... | 2.166 | 1.1 | ug/L | 87187 | 1 | 6.279 | 378536 | 5.0 |
| (DEL) Alkane: S... | 2.215 | 2.3 | ug/L | 171843 | 1 | 6.279 | 378536 | 5.0 |
| Butanal | 4.491 | 0.9 | ug/L | 68751 | 1 | 6.279 | 378536 | 5.0 |
| Pentanal | 6.912 | 7.0 | ug/L | 526127 | 1 | 6.279 | 378536 | 5.0 |
| Hexanal | 8.800 | 52.5 | ug/L | 4746230 | 2 | 9.423 | 451818 | 5.0 |
| Heptanal | 10.346 | 9.7 | ug/L | 876312 | 2 | 9.423 | 451818 | 5.0 |
| Furan, 2-pentyl- | 11.259 | 0.9 | ug/L | 95993 | 3 | 11.812 | 525497 | 5.0 |
| 2-Heptenal, (E)- | 11.298 | 1.0 | ug/L | 109066 | 3 | 11.812 | 525497 | 5.0 |
| Octanal | 11.687 | 14.6 | ug/L | 1532790 | 3 | 11.812 | 525497 | 5.0 |
| (DEL) Alkane: C... | 12.542 | 4.0 | ug/L | 415504 | 3 | 11.812 | 525497 | 5.0 |
| Nonanal | 12.886 | 21.3 | ug/L | 2239770 | 3 | 11.812 | 525497 | 5.0 |
| 2-Nonenal, (E)- | 13.684 | 1.5 | ug/L | 158547 | 3 | 11.812 | 525497 | 5.0 |
| 4-Decenal, (E)- | 13.883 | 0.8 | ug/L | 83020 | 3 | 11.812 | 525497 | 5.0 |
| Decanal | 13.983 | 1.5 | ug/L | 153378 | 3 | 11.812 | 525497 | 5.0 |
| 2-Decenal, (E)- | 14.732 | 9.7 | ug/L | 1018660 | 3 | 11.812 | 525497 | 5.0 |
| 2,4-Decadienal,... | 15.368 | 2.0 | ug/L | 215769 | 3 | 11.812 | 525497 | 5.0 |
| 2-Undecenal, E- | 15.709 | 1.6 | ug/L | 170543 | 3 | 11.812 | 525497 | 5.0 |
| Butylated Hydro... | 16.886 | 3.1 | ug/L | 328348 | 3 | 11.812 | 525497 | 5.0 |