

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU122120\  
 Data File : VU041711.D  
 Acq On : 21 Dec 2020 19:29  
 Operator : SY/MD  
 Sample : L5162-02  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GB248

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.1

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121220WMA.M

Title : TRACE VOA SOM01.0

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.604       | 74            | 82          | 89           | rBV      | 65589          | 83489         | 5.80%           | 1.216%        |
| 2         | 1.694       | 102           | 110         | 159          | rVB      | 922520         | 1440156       | 100.00%         | 20.970%       |
| 3         | 1.922       | 174           | 181         | 198          | rVB      | 56842          | 79696         | 5.53%           | 1.160%        |
| 4         | 2.578       | 371           | 385         | 399          | rVB2     | 102854         | 222959        | 15.48%          | 3.247%        |
| 5         | 3.594       | 689           | 701         | 714          | rBV3     | 6163           | 14497         | 1.01%           | 0.211%        |
| 6         | 4.465       | 958           | 972         | 994          | rBV3     | 34874          | 87019         | 6.04%           | 1.267%        |
| 7         | 4.649       | 1011          | 1029        | 1071         | rBV      | 90483          | 285818        | 19.85%          | 4.162%        |
| 8         | 5.079       | 1147          | 1163        | 1183         | rBV      | 92041          | 207399        | 14.40%          | 3.020%        |
| 9         | 5.739       | 1345          | 1368        | 1408         | rBV2     | 177338         | 499359        | 34.67%          | 7.271%        |
| 10        | 6.259       | 1515          | 1530        | 1547         | rBV2     | 162201         | 308467        | 21.42%          | 4.492%        |
| 11        | 6.575       | 1610          | 1628        | 1629         | rBV3     | 16106          | 30805         | 2.14%           | 0.449%        |
| 12        | 6.700       | 1655          | 1667        | 1687         | rVB      | 113837         | 225521        | 15.66%          | 3.284%        |
| 13        | 6.886       | 1712          | 1725        | 1754         | rBV2     | 78850          | 159672        | 11.09%          | 2.325%        |
| 14        | 7.571       | 1926          | 1938        | 1957         | rVB2     | 56997          | 101363        | 7.04%           | 1.476%        |
| 15        | 7.902       | 2029          | 2041        | 2056         | rBV      | 206228         | 357311        | 24.81%          | 5.203%        |
| 16        | 8.185       | 2117          | 2129        | 2144         | rBV      | 36691          | 63505         | 4.41%           | 0.925%        |
| 17        | 8.465       | 2198          | 2216        | 2238         | rBV3     | 75200          | 198980        | 13.82%          | 2.897%        |
| 18        | 8.639       | 2257          | 2270        | 2301         | rBV      | 403609         | 726451        | 50.44%          | 10.578%       |
| 19        | 8.790       | 2304          | 2317        | 2344         | rVB2     | 91413          | 158217        | 10.99%          | 2.304%        |
| 20        | 9.420       | 2498          | 2513        | 2529         | rBV      | 224617         | 377193        | 26.19%          | 5.492%        |
| 21        | 10.002      | 2683          | 2694        | 2720         | rBV      | 113922         | 246346        | 17.11%          | 3.587%        |
| 22        | 10.340      | 2789          | 2799        | 2812         | rVB2     | 25827          | 40546         | 2.82%           | 0.590%        |
| 23        | 10.754      | 2917          | 2928        | 2946         | rVB      | 103709         | 166896        | 11.59%          | 2.430%        |
| 24        | 11.336      | 3095          | 3109        | 3122         | rBV2     | 30153          | 58800         | 4.08%           | 0.856%        |
| 25        | 11.684      | 3206          | 3217        | 3229         | rBV4     | 12224          | 19585         | 1.36%           | 0.285%        |
| 26        | 11.806      | 3242          | 3255        | 3272         | rVB      | 232588         | 366960        | 25.48%          | 5.343%        |
| 27        | 12.188      | 3361          | 3374        | 3393         | rVB      | 210048         | 340614        | 23.65%          | 4.960%        |

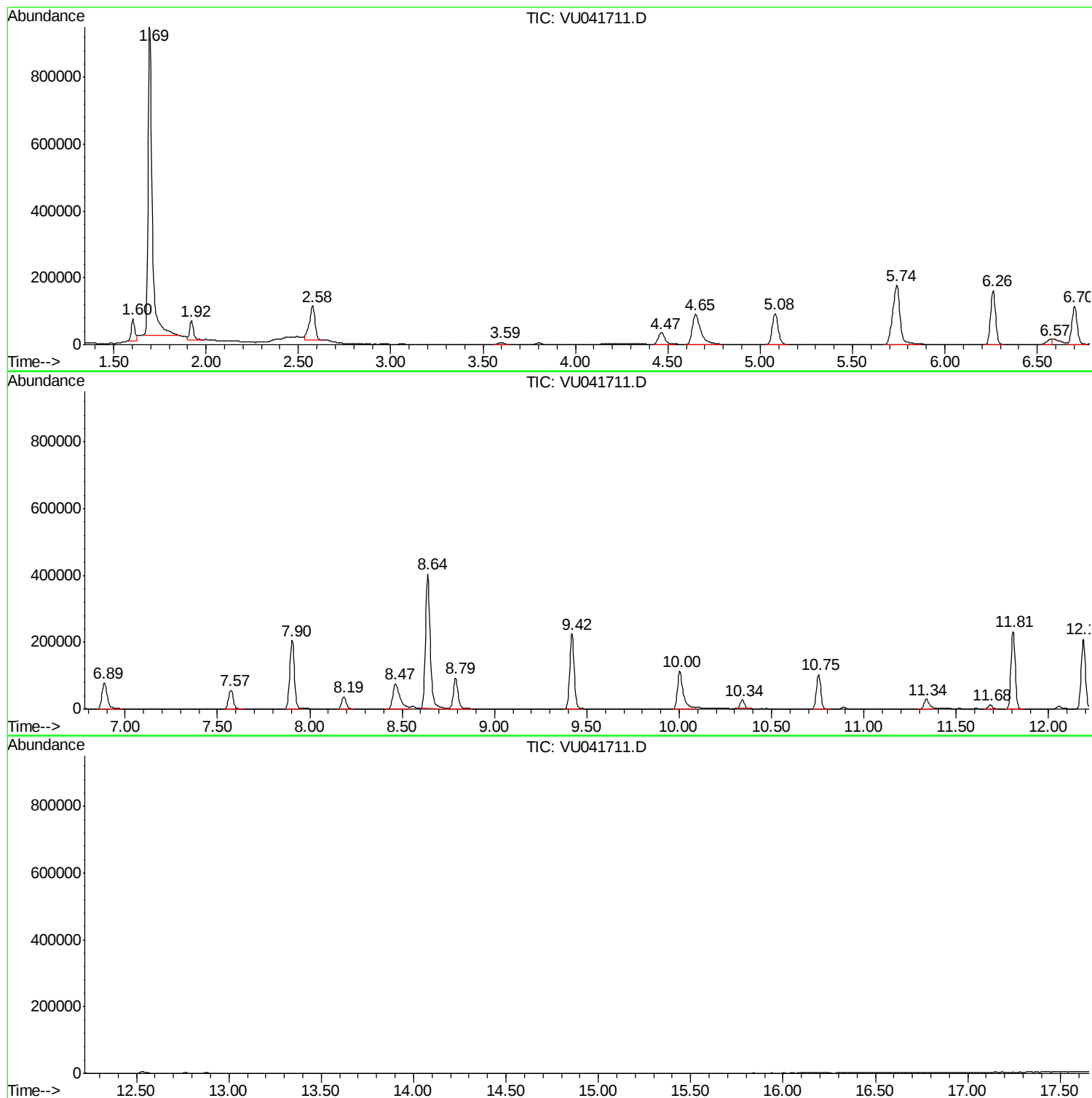
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MSVOA\_U  
ClientSampleId :  
GB248

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121220WMA.M  
Quant Title : TRACE VOA SOM01.0

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



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Quant Title : TRACE VOA SOM01.0

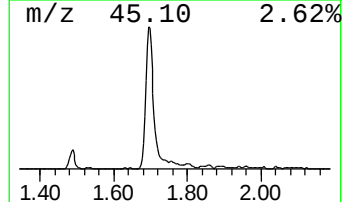
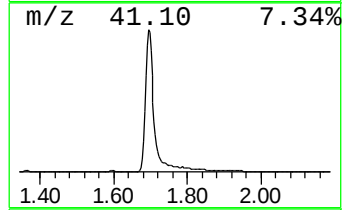
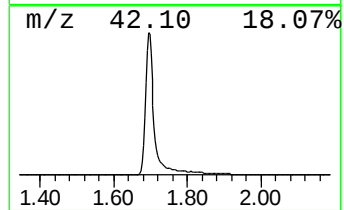
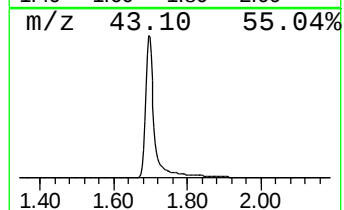
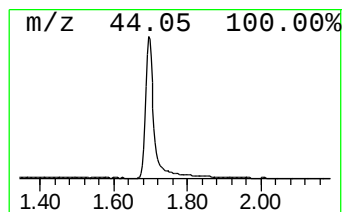
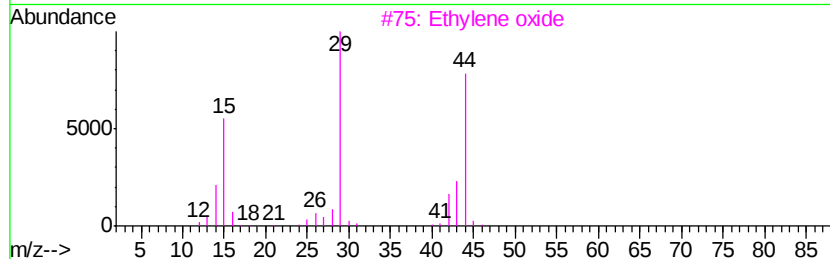
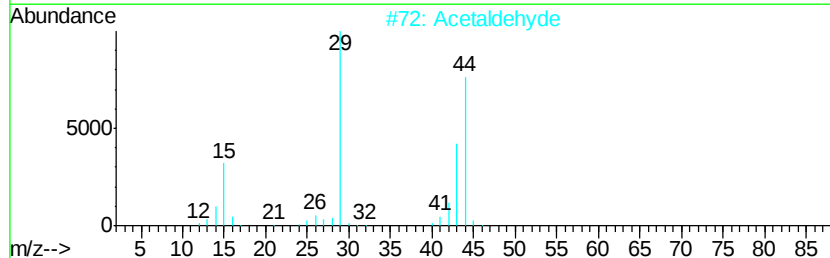
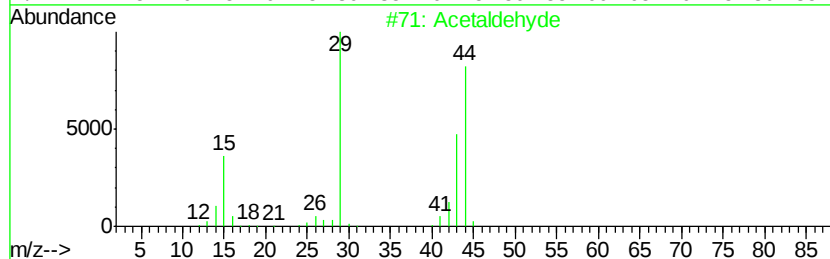
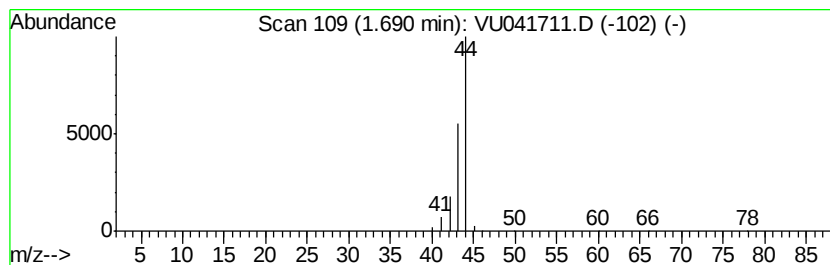
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Acetaldehyde Concentration Rank 1

| R.T. | EstConc    | Area    | Relative to ISTD    | R.T. |
|------|------------|---------|---------------------|------|
| 1.69 | 23.34 ug/L | 1440160 | 1,4-Difluorobenzene | 6.26 |

| Hit# | of | Tentative ID   | MW | MolForm | CAS#        | Qual |
|------|----|----------------|----|---------|-------------|------|
| 1    | 5  | Acetaldehydve  | 44 | C2H4O   | 000075-07-0 | 64   |
| 2    |    | Acetaldehydve  | 44 | C2H4O   | 000075-07-0 | 64   |
| 3    |    | Ethylene oxide | 44 | C2H4O   | 000075-21-8 | 5    |
| 4    |    | Ethylene oxide | 44 | C2H4O   | 000075-21-8 | 5    |
| 5    |    | Ethylene oxide | 44 | C2H4O   | 000075-21-8 | 5    |



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ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GB248

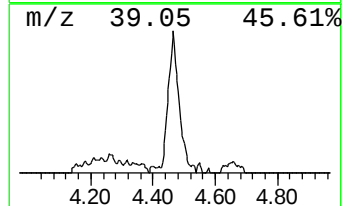
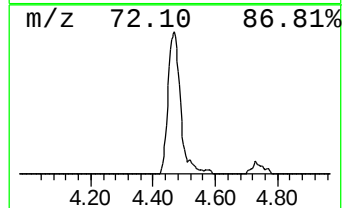
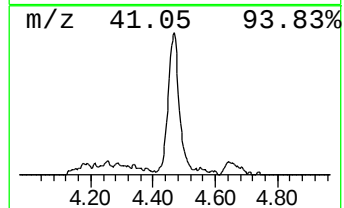
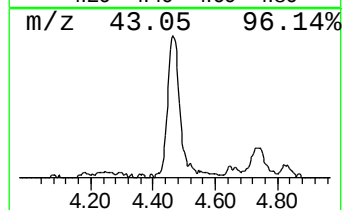
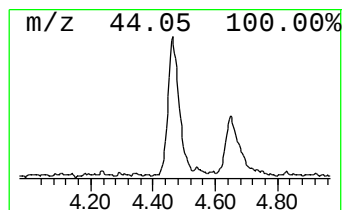
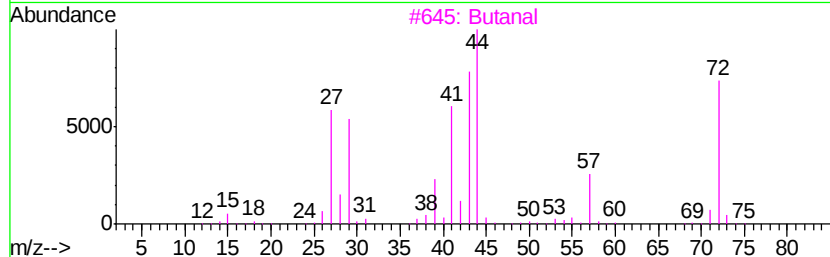
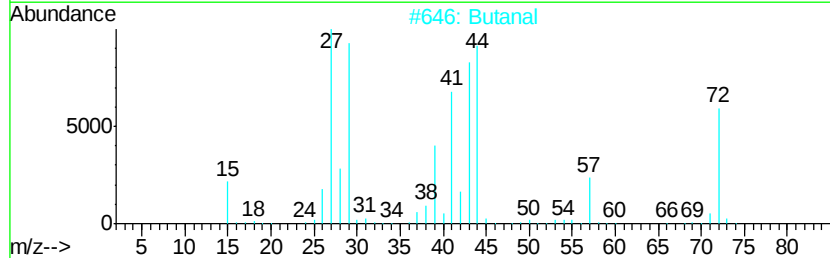
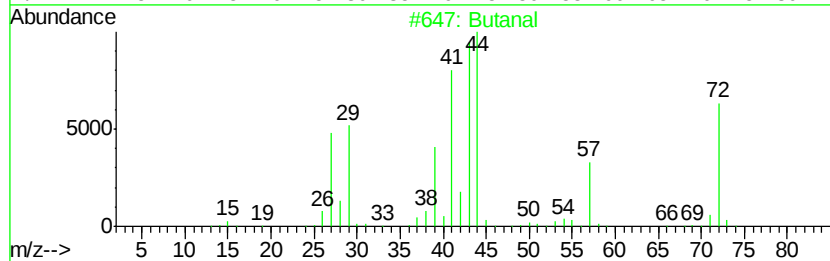
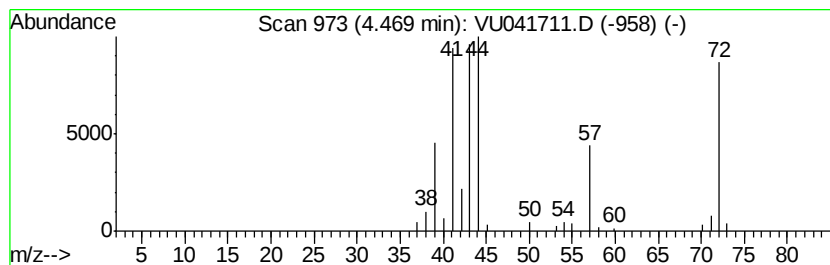
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Quant Title : TRACE VOA SOM01.0

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

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Peak Number 2 Butanal Concentration Rank 7

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 4.47 | 1.41 ug/L | 87019 | 1,4-Difluorobenzene | 6.26 |

| Hit# | of | Tentative ID          | MW | MolForm | CAS#        | Qual |
|------|----|-----------------------|----|---------|-------------|------|
| 1    | 5  | Butanal               | 72 | C4H8O   | 000123-72-8 | 94   |
| 2    |    | Butanal               | 72 | C4H8O   | 000123-72-8 | 91   |
| 3    |    | Butanal               | 72 | C4H8O   | 000123-72-8 | 64   |
| 4    |    | Propanal, 2-methyl-   | 72 | C4H8O   | 000078-84-2 | 43   |
| 5    |    | 1-Propene, 3-methoxy- | 72 | C4H8O   | 000627-40-7 | 43   |



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ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GB248

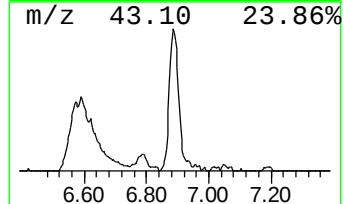
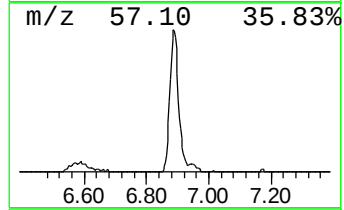
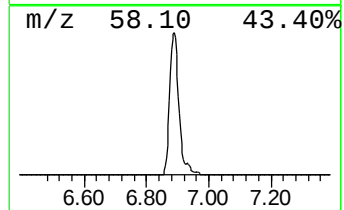
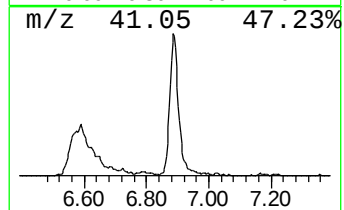
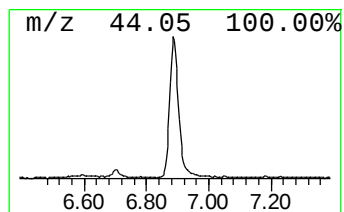
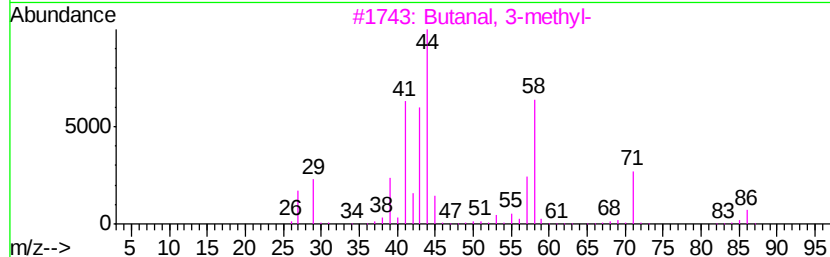
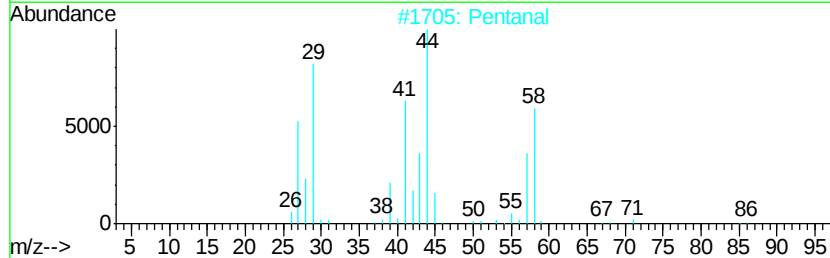
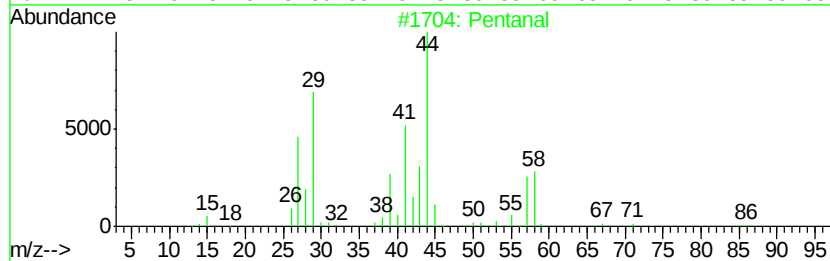
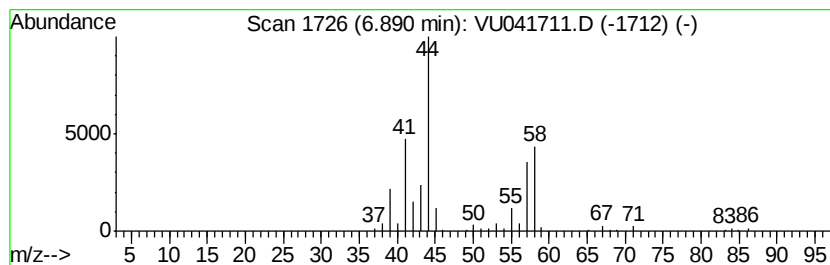
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Quant Title : TRACE VOA SOM01.0

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

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Peak Number 3 Pentanal Concentration Rank 4

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 6.89 | 2.59 ug/L | 159672 | 1,4-Difluorobenzene | 6.26 |

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



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MSVOA\_U  
ClientSampleId :  
GB248

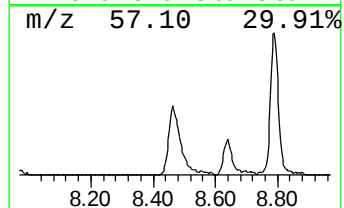
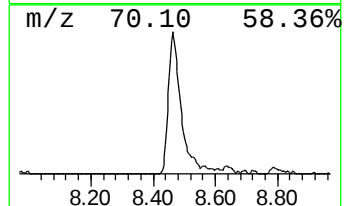
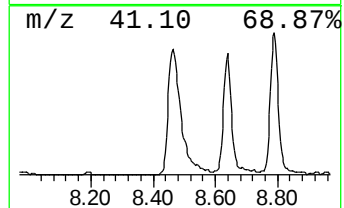
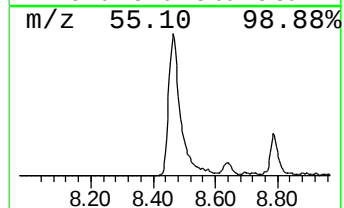
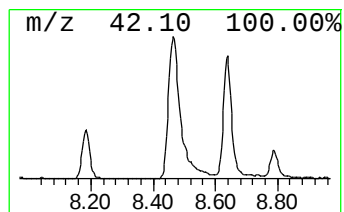
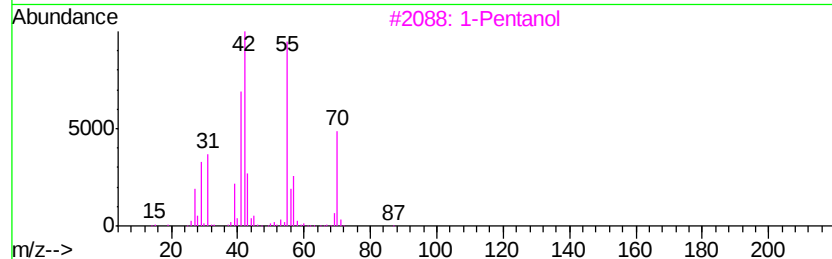
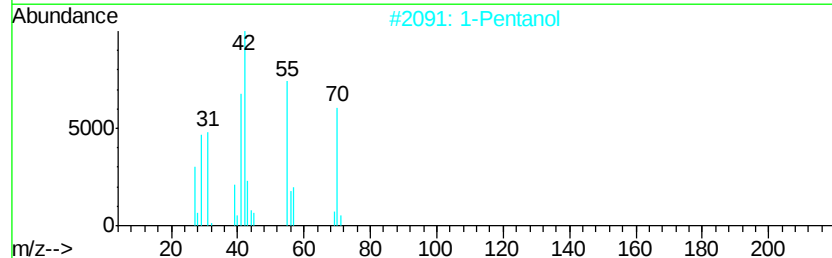
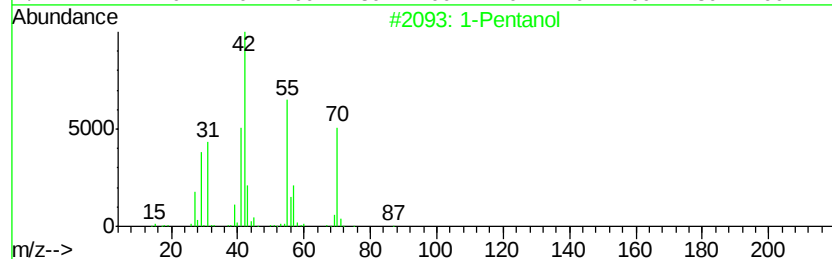
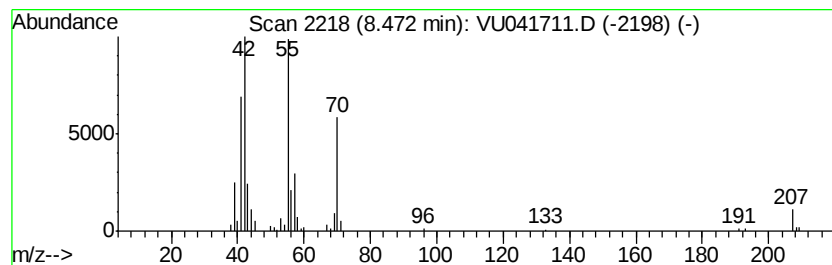
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Quant Title : TRACE VOA SOM01.0

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

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Peak Number 5 1-Pentanol Concentration Rank 3

| R.T. | EstConc   | Area   | Relative to ISTD | R.T. |
|------|-----------|--------|------------------|------|
| 8.47 | 2.64 ug/L | 198980 | Chlorobenzene-d5 | 9.42 |

| Hit# | of | Tentative ID         | MW | MolForm | CAS#        | Qual |
|------|----|----------------------|----|---------|-------------|------|
| 1    | 5  | 1-Pentanol           | 88 | C5H12O  | 000071-41-0 | 72   |
| 2    |    | 1-Pentanol           | 88 | C5H12O  | 000071-41-0 | 72   |
| 3    |    | 1-Pentanol           | 88 | C5H12O  | 000071-41-0 | 72   |
| 4    |    | 1-Butanol, 3-methyl- | 88 | C5H12O  | 000123-51-3 | 64   |
| 5    |    | 1-Pentene            | 70 | C5H10   | 000109-67-1 | 59   |



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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121220WMA.M  
Quant Title : TRACE VOA SOM01.0

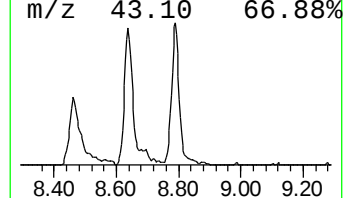
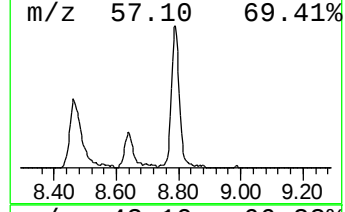
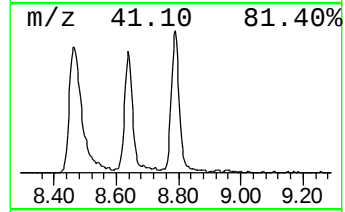
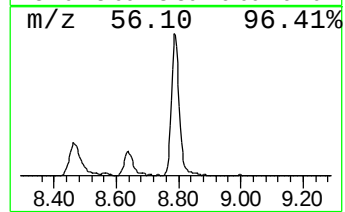
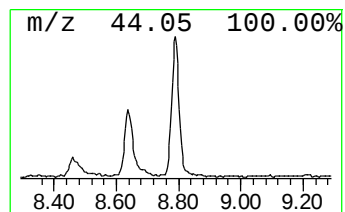
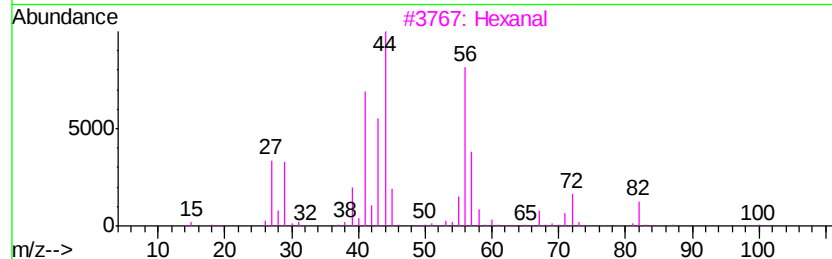
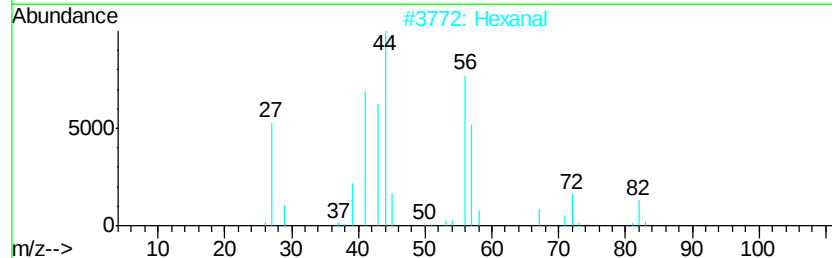
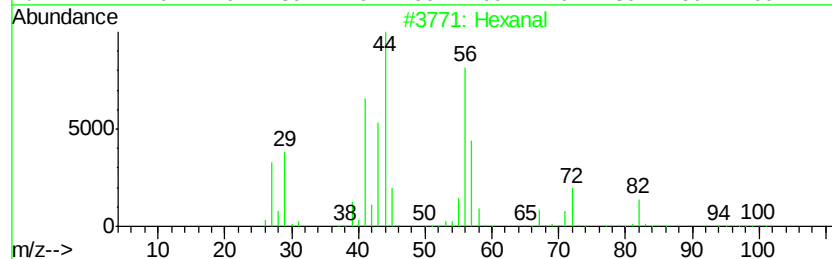
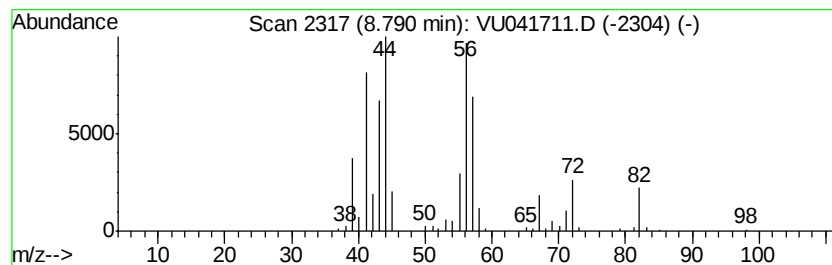
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Hexanal Concentration Rank 5

| R.T. | EstConc   | Area   | Relative to ISTD | R.T. |
|------|-----------|--------|------------------|------|
| 8.79 | 2.10 ug/L | 158217 | Chlorobenzene-d5 | 9.42 |

| Hit# of | 5              | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|----------------|--------------|-----|---------|-------------|------|
| 1       | Hexanal        |              | 100 | C6H12O  | 000066-25-1 | 90   |
| 2       | Hexanal        |              | 100 | C6H12O  | 000066-25-1 | 86   |
| 3       | Hexanal        |              | 100 | C6H12O  | 000066-25-1 | 83   |
| 4       | Hexanal        |              | 100 | C6H12O  | 000066-25-1 | 78   |
| 5       | Glutaraldehyde |              | 100 | C5H8O2  | 000111-30-8 | 32   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU122120\  
Data File : VU041711.D  
Acq On : 21 Dec 2020 19:29  
Operator : SY/MD  
Sample : L5162-02  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GB248

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121220WMA.M  
Quant Title : TRACE VOA SOM01.0

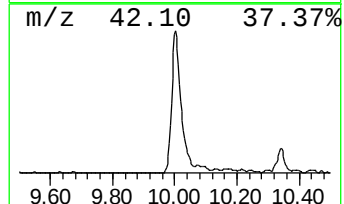
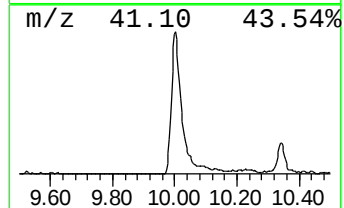
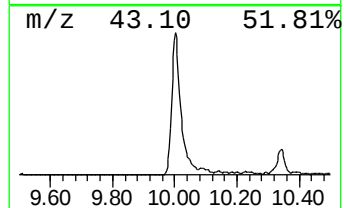
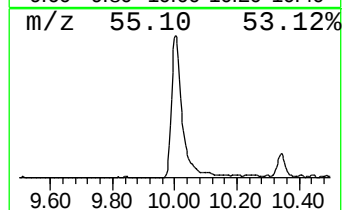
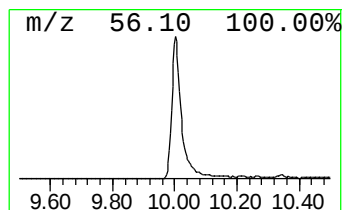
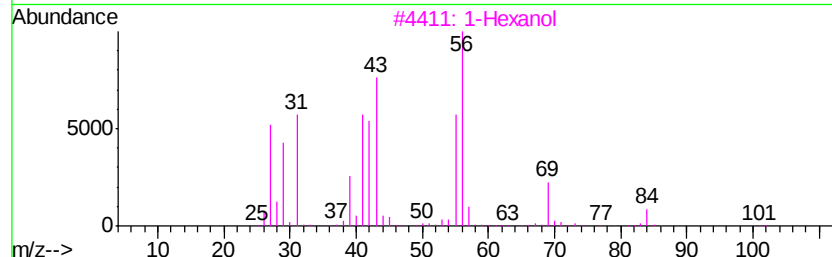
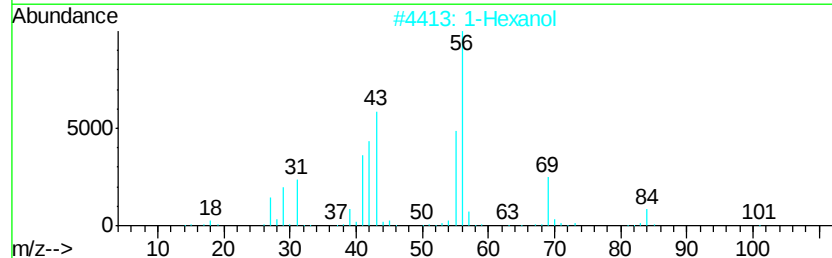
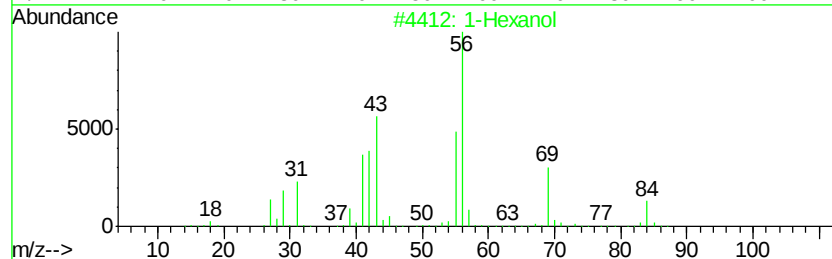
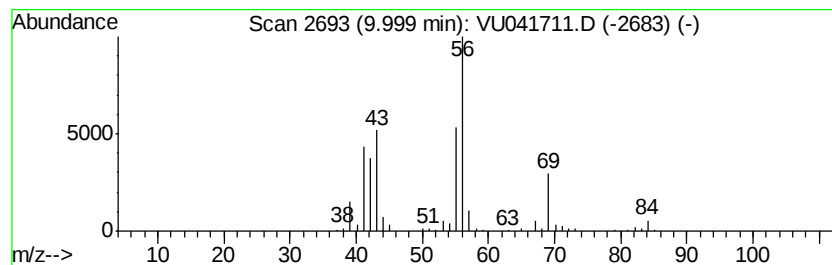
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 1-Hexanol Concentration Rank 2

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T. |
|-------|-----------|--------|------------------|------|
| 10.00 | 3.27 ug/L | 246346 | Chlorobenzene-d5 | 9.42 |

| Hit# of | 5                     | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-----------------------|--------------|-----|---------|-------------|------|
| 1       | 1-Hexanol             |              | 102 | C6H14O  | 000111-27-3 | 86   |
| 2       | 1-Hexanol             |              | 102 | C6H14O  | 000111-27-3 | 83   |
| 3       | 1-Hexanol             |              | 102 | C6H14O  | 000111-27-3 | 83   |
| 4       | 1-Hexanol             |              | 102 | C6H14O  | 000111-27-3 | 83   |
| 5       | Cyclopropane, propyl- |              | 84  | C6H12   | 002415-72-7 | 78   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU122120\  
Data File : VU041711.D  
Acq On : 21 Dec 2020 19:29  
Operator : SY/MD  
Sample : L5162-02  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GB248

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121220WMA.M  
Quant Title : TRACE VOA SOM01.0

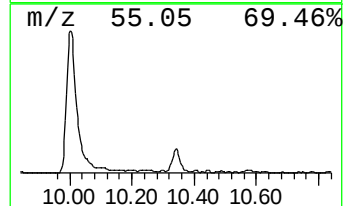
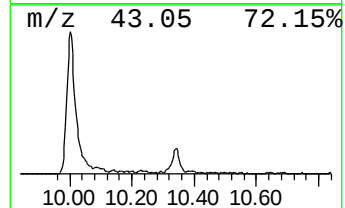
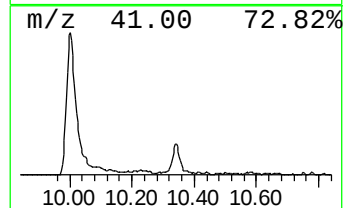
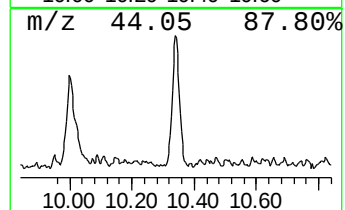
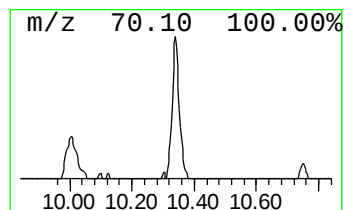
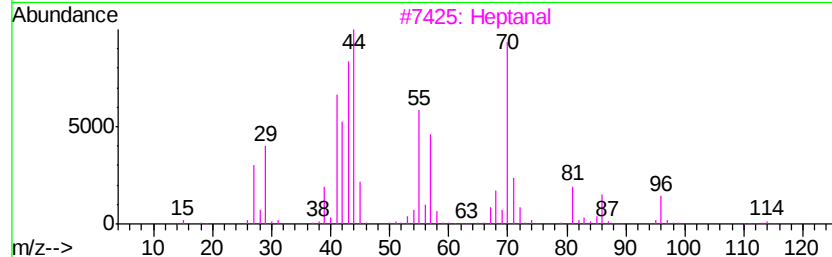
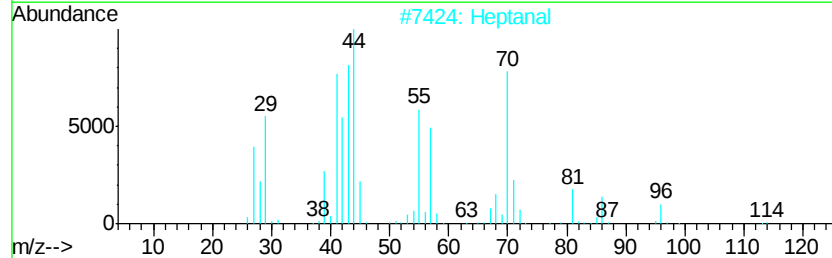
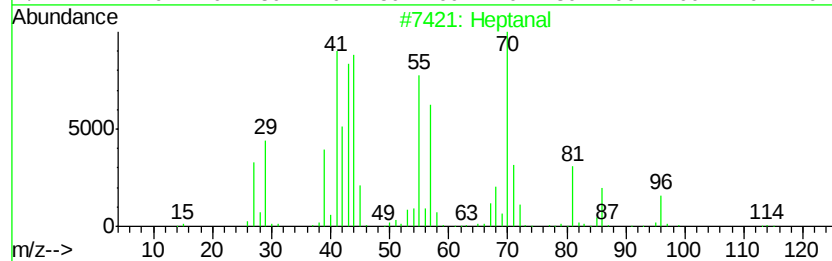
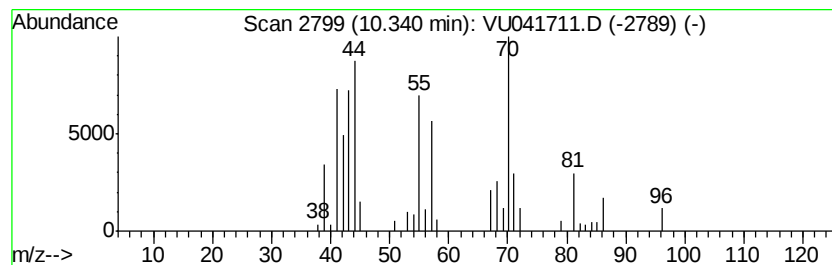
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Heptanal Concentration Rank 9

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T. |
|-------|-----------|-------|------------------|------|
| 10.34 | 0.54 ug/L | 40546 | Chlorobenzene-d5 | 9.42 |

| Hit# of | 5        | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|----------|--------------|-----|---------|-------------|------|
| 1       | Heptanal |              | 114 | C7H14O  | 000111-71-7 | 86   |
| 2       | Heptanal |              | 114 | C7H14O  | 000111-71-7 | 80   |
| 3       | Heptanal |              | 114 | C7H14O  | 000111-71-7 | 72   |
| 4       | Heptanal |              | 114 | C7H14O  | 000111-71-7 | 72   |
| 5       | Heptanal |              | 114 | C7H14O  | 000111-71-7 | 72   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU122120\  
Data File : VU041711.D  
Acq On : 21 Dec 2020 19:29  
Operator : SY/MD  
Sample : L5162-02  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GB248

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121220WMA.M  
Quant Title : TRACE VOA SOM01.0

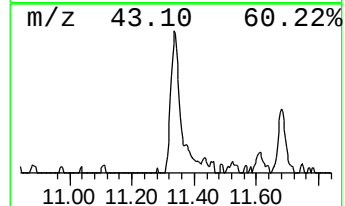
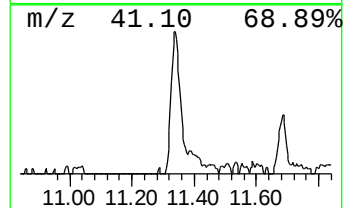
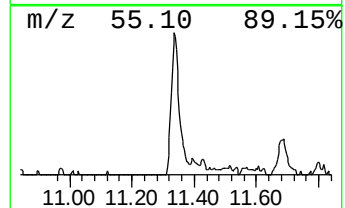
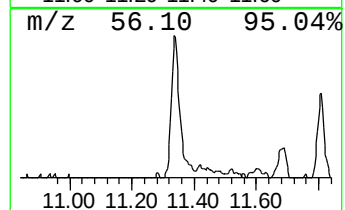
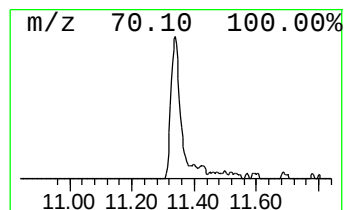
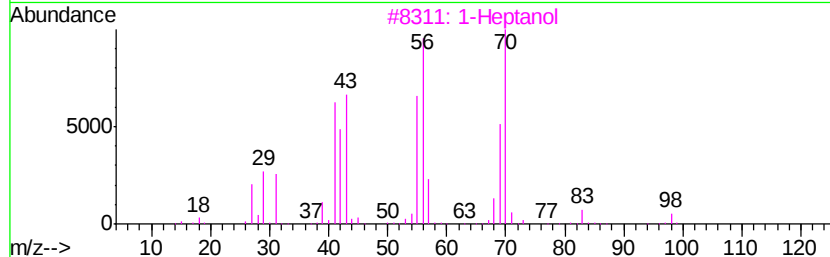
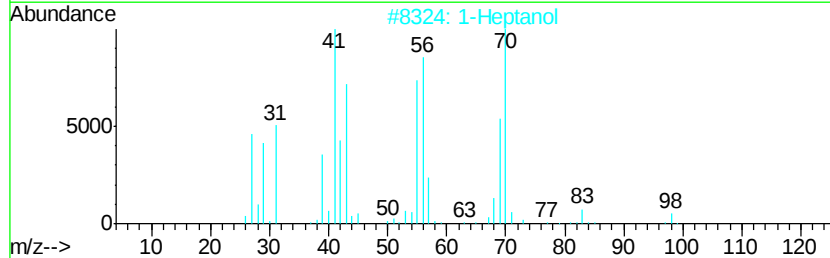
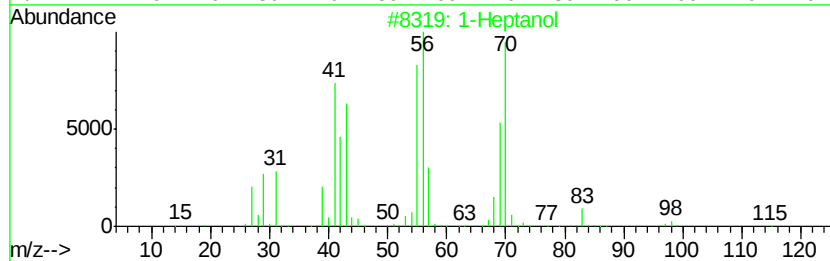
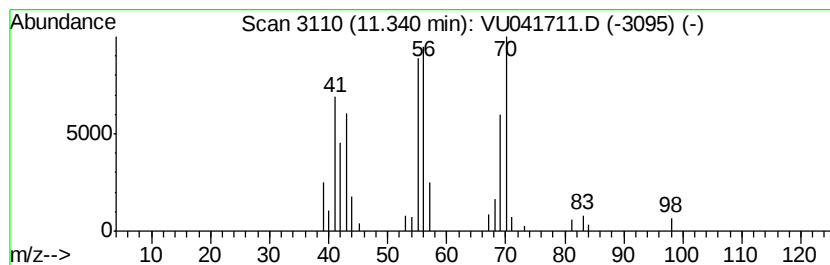
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 1-Heptanol Concentration Rank 8

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 11.34 | 0.80 ug/L | 58800 | 1,4-Dichlorobenzene-d4 | 11.81 |

| Hit# of | 5                         | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|---------------------------|--------------|-----|---------|-------------|------|
| 1       | 1-Heptanol                |              | 116 | C7H16O  | 000111-70-6 | 90   |
| 2       | 1-Heptanol                |              | 116 | C7H16O  | 000111-70-6 | 90   |
| 3       | 1-Heptanol                |              | 116 | C7H16O  | 000111-70-6 | 86   |
| 4       | 1-Heptanol                |              | 116 | C7H16O  | 000111-70-6 | 86   |
| 5       | Formic acid, heptyl ester |              | 144 | C8H16O2 | 000112-23-2 | 78   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU122120\  
Data File : VU041711.D  
Acq On : 21 Dec 2020 19:29  
Operator : SY/MD  
Sample : L5162-02  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GB248

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121220WMA.M  
Quant Title : TRACE VOA SOM01.0

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

| TIC Top Hit name | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                  |       |         |       |          | #                     | RT    | Resp   | Conc |
| Acetaldehyde     | 1.69  | 23.3    | ug/L  | 1440160  | 1                     | 6.26  | 308467 | 5.0  |
| Butanal          | 4.47  | 1.4     | ug/L  | 87019    | 1                     | 6.26  | 308467 | 5.0  |
| Pentanal         | 6.89  | 2.6     | ug/L  | 159672   | 1                     | 6.26  | 308467 | 5.0  |
| 1-Pentanol       | 8.47  | 2.6     | ug/L  | 198980   | 2                     | 9.42  | 377193 | 5.0  |
| Hexanal          | 8.79  | 2.1     | ug/L  | 158217   | 2                     | 9.42  | 377193 | 5.0  |
| 1-Hexanol        | 10.00 | 3.3     | ug/L  | 246346   | 2                     | 9.42  | 377193 | 5.0  |
| Heptanal         | 10.34 | 0.5     | ug/L  | 40546    | 2                     | 9.42  | 377193 | 5.0  |
| 1-Heptanol       | 11.34 | 0.8     | ug/L  | 58800    | 3                     | 11.81 | 366960 | 5.0  |