

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062422\  
 Data File : VU049384.D  
 Acq On : 24 Jun 2022 13:32  
 Operator : SY/MD  
 Sample : N3374-07  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EW4T7

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\SFAMUTR061422WMA.M  
 Title : TRACE VOA SFAM1.0

Signal : TIC: VU049384.D\data.ms

| 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         | 1.363       | 3             | 7           | 11           | rBV3     | 38324          | 43376         | 6.31%           | 0.492%        |
| 2         | 1.391       | 11            | 16          | 26           | rVB      | 80882          | 110802        | 16.11%          | 1.258%        |
| 3         | 1.436       | 26            | 30          | 35           | rVB      | 17228          | 15106         | 2.20%           | 0.171%        |
| 4         | 1.481       | 35            | 44          | 68           | rBV      | 296005         | 687728        | 100.00%         | 7.806%        |
| 5         | 1.584       | 69            | 76          | 91           | rVB2     | 285509         | 430887        | 62.65%          | 4.890%        |
| 6         | 1.732       | 114           | 122         | 135          | rVB      | 295448         | 375078        | 54.54%          | 4.257%        |
| 7         | 1.867       | 155           | 164         | 173          | rBV      | 437534         | 550157        | 80.00%          | 6.244%        |
| 8         | 1.912       | 174           | 178         | 194          | rVB      | 32323          | 44283         | 6.44%           | 0.503%        |
| 9         | 2.565       | 366           | 381         | 395          | rBV      | 60015          | 102882        | 14.96%          | 1.168%        |
| 10        | 2.652       | 395           | 408         | 438          | rVB      | 22222          | 68034         | 9.89%           | 0.772%        |
| 11        | 2.803       | 444           | 455         | 459          | rBV2     | 3508           | 7065          | 1.03%           | 0.080%        |
| 12        | 3.047       | 521           | 531         | 543          | rVB2     | 11444          | 22424         | 3.26%           | 0.255%        |
| 13        | 3.192       | 557           | 576         | 583          | rBV      | 35164          | 92948         | 13.52%          | 1.055%        |
| 14        | 3.366       | 623           | 630         | 645          | rVB2     | 26029          | 56792         | 8.26%           | 0.645%        |
| 15        | 3.584       | 685           | 698         | 716          | rVB3     | 10114          | 23460         | 3.41%           | 0.266%        |
| 16        | 4.456       | 956           | 969         | 981          | rBV5     | 5506           | 15689         | 2.28%           | 0.178%        |
| 17        | 4.642       | 1007          | 1027        | 1068         | rBV4     | 113305         | 404181        | 58.77%          | 4.587%        |
| 18        | 5.067       | 1140          | 1159        | 1185         | rBV      | 91713          | 217674        | 31.65%          | 2.471%        |
| 19        | 5.385       | 1247          | 1258        | 1271         | rBV9     | 3445           | 7841          | 1.14%           | 0.089%        |
| 20        | 5.726       | 1341          | 1364        | 1391         | rBV3     | 140817         | 397130        | 57.75%          | 4.507%        |
| 21        | 5.967       | 1424          | 1439        | 1451         | rBV7     | 9488           | 23052         | 3.35%           | 0.262%        |
| 22        | 6.147       | 1484          | 1495        | 1506         | rBV5     | 5222           | 12208         | 1.78%           | 0.139%        |
| 23        | 6.250       | 1513          | 1527        | 1548         | rVB      | 132888         | 252907        | 36.77%          | 2.870%        |
| 24        | 6.571       | 1618          | 1627        | 1635         | rVV7     | 4178           | 8681          | 1.26%           | 0.099%        |
| 25        | 6.694       | 1653          | 1665        | 1679         | rVB2     | 93730          | 182184        | 26.49%          | 2.068%        |
| 26        | 6.883       | 1711          | 1724        | 1736         | rBV2     | 21823          | 43901         | 6.38%           | 0.498%        |
| 27        | 7.398       | 1866          | 1884        | 1899         | rVB6     | 6777           | 16739         | 2.43%           | 0.190%        |
| 28        | 7.568       | 1925          | 1937        | 1951         | rBV      | 39022          | 68945         | 10.03%          | 0.783%        |
| 29        | 7.713       | 1970          | 1982        | 1993         | rVB9     | 3723           | 8148          | 1.18%           | 0.092%        |
| 30        | 7.899       | 2019          | 2040        | 2054         | rBV      | 174054         | 305349        | 44.40%          | 3.466%        |
| 31        | 7.970       | 2054          | 2062        | 2075         | rVB2     | 17270          | 29584         | 4.30%           | 0.336%        |
| 32        | 8.182       | 2115          | 2128        | 2140         | rBV2     | 24378          | 40756         | 5.93%           | 0.463%        |
| 33        | 8.488       | 2209          | 2223        | 2235         | rBV3     | 13275          | 27892         | 4.06%           | 0.317%        |
| 34        | 8.636       | 2254          | 2269        | 2302         | rBV2     | 272988         | 536569        | 78.02%          | 6.090%        |
| 35        | 8.787       | 2304          | 2316        | 2337         | rVV      | 104336         | 184053        | 26.76%          | 2.089%        |
| 36        | 9.275       | 2460          | 2468        | 2478         | rVB      | 6154           | 10765         | 1.57%           | 0.122%        |

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 Sample : N3374-07  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EW4T7

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\SFAMUTR061422WMA.M  
 Title : TRACE VOA SFAM1.0

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 37 | 9.417  | 2496 | 2512 | 2534 | rVB  | 188054 | 320423 | 46.59% | 3.637% |
| 38 | 9.578  | 2552 | 2562 | 2570 | rBV7 | 3854   | 7197   | 1.05%  | 0.082% |
| 39 | 9.690  | 2580 | 2597 | 2610 | rVB4 | 21830  | 48062  | 6.99%  | 0.545% |
| 40 | 9.980  | 2678 | 2687 | 2692 | rBV5 | 5059   | 8167   | 1.19%  | 0.093% |
| 41 | 10.028 | 2694 | 2702 | 2717 | rVV5 | 11159  | 30953  | 4.50%  | 0.351% |
| 42 | 10.105 | 2718 | 2726 | 2737 | rVB6 | 7114   | 14663  | 2.13%  | 0.166% |
| 43 | 10.237 | 2757 | 2767 | 2775 | rBV8 | 3836   | 7277   | 1.06%  | 0.083% |
| 44 | 10.343 | 2784 | 2800 | 2813 | rBV7 | 22863  | 50615  | 7.36%  | 0.574% |
| 45 | 10.484 | 2830 | 2844 | 2853 | rVB3 | 11286  | 20438  | 2.97%  | 0.232% |
| 46 | 10.574 | 2856 | 2872 | 2881 | rBV8 | 11351  | 24351  | 3.54%  | 0.276% |
| 47 | 10.639 | 2881 | 2892 | 2902 | rVV2 | 20834  | 36199  | 5.26%  | 0.411% |
| 48 | 10.709 | 2902 | 2914 | 2920 | rVV2 | 116344 | 199377 | 28.99% | 2.263% |
| 49 | 10.751 | 2920 | 2927 | 2940 | rVB3 | 229965 | 395051 | 57.44% | 4.484% |
| 50 | 10.906 | 2965 | 2975 | 2985 | rBV4 | 9738   | 18354  | 2.67%  | 0.208% |
| 51 | 11.089 | 3025 | 3032 | 3040 | rVV2 | 4596   | 6947   | 1.01%  | 0.079% |
| 52 | 11.234 | 3066 | 3077 | 3088 | rVB3 | 25919  | 46416  | 6.75%  | 0.527% |
| 53 | 11.304 | 3088 | 3099 | 3100 | rBV4 | 6952   | 9592   | 1.39%  | 0.109% |
| 54 | 11.433 | 3123 | 3139 | 3145 | rBV7 | 15989  | 30569  | 4.44%  | 0.347% |
| 55 | 11.468 | 3146 | 3150 | 3163 | rVB3 | 12036  | 19606  | 2.85%  | 0.223% |
| 56 | 11.597 | 3181 | 3190 | 3197 | rBV6 | 12804  | 23225  | 3.38%  | 0.264% |
| 57 | 11.645 | 3197 | 3205 | 3211 | rVV6 | 21545  | 34061  | 4.95%  | 0.387% |
| 58 | 11.687 | 3211 | 3218 | 3225 | rVV2 | 37322  | 60008  | 8.73%  | 0.681% |
| 59 | 11.729 | 3226 | 3231 | 3239 | rVV4 | 21746  | 39132  | 5.69%  | 0.444% |
| 60 | 11.812 | 3240 | 3257 | 3274 | rVB3 | 233695 | 505589 | 73.52% | 5.738% |
| 61 | 11.899 | 3275 | 3284 | 3288 | rBV3 | 7763   | 11696  | 1.70%  | 0.133% |
| 62 | 11.960 | 3295 | 3303 | 3313 | rVB8 | 16974  | 33264  | 4.84%  | 0.378% |
| 63 | 12.008 | 3313 | 3318 | 3325 | rVB3 | 10623  | 14554  | 2.12%  | 0.165% |
| 64 | 12.089 | 3325 | 3343 | 3354 | rBV6 | 32868  | 89257  | 12.98% | 1.013% |
| 65 | 12.150 | 3354 | 3362 | 3366 | rVV3 | 20098  | 29530  | 4.29%  | 0.335% |
| 66 | 12.195 | 3366 | 3376 | 3401 | rVB  | 197694 | 340929 | 49.57% | 3.869% |
| 67 | 12.336 | 3401 | 3420 | 3429 | rBV4 | 25764  | 52015  | 7.56%  | 0.590% |
| 68 | 12.446 | 3449 | 3454 | 3462 | rVB7 | 11409  | 16339  | 2.38%  | 0.185% |
| 69 | 12.504 | 3465 | 3472 | 3480 | rVB5 | 12325  | 19250  | 2.80%  | 0.218% |
| 70 | 12.642 | 3504 | 3515 | 3534 | rVV3 | 43596  | 89589  | 13.03% | 1.017% |
| 71 | 12.748 | 3537 | 3548 | 3563 | rVB3 | 8513   | 24398  | 3.55%  | 0.277% |
| 72 | 12.886 | 3579 | 3591 | 3602 | rBV4 | 43447  | 83094  | 12.08% | 0.943% |
| 73 | 12.989 | 3617 | 3623 | 3630 | rBV3 | 12451  | 17860  | 2.60%  | 0.203% |
| 74 | 13.233 | 3695 | 3699 | 3707 | rVB9 | 5830   | 7218   | 1.05%  | 0.082% |
| 75 | 13.298 | 3707 | 3719 | 3723 | rBV9 | 10373  | 20199  | 2.94%  | 0.229% |
| 76 | 13.375 | 3734 | 3743 | 3756 | rVB2 | 58060  | 95523  | 13.89% | 1.084% |

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 ClientSampleId :  
 EW4T7

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

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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\SFAMUTR061422WMA.M  
 Title : TRACE VOA SFAM1.0

|    |        |      |      |      |       |       |        |        |        |
|----|--------|------|------|------|-------|-------|--------|--------|--------|
| 77 | 13.449 | 3758 | 3766 | 3780 | rVB6  | 26057 | 50662  | 7.37%  | 0.575% |
| 78 | 13.516 | 3782 | 3787 | 3795 | rVB9  | 5109  | 7297   | 1.06%  | 0.083% |
| 79 | 13.684 | 3830 | 3839 | 3848 | rBV7  | 24375 | 42909  | 6.24%  | 0.487% |
| 80 | 13.741 | 3848 | 3857 | 3868 | rVV3  | 61212 | 106347 | 15.46% | 1.207% |
| 81 | 13.809 | 3871 | 3878 | 3900 | rVB6  | 20155 | 46173  | 6.71%  | 0.524% |
| 82 | 13.954 | 3913 | 3923 | 3938 | rVB6  | 8295  | 18943  | 2.75%  | 0.215% |
| 83 | 14.085 | 3951 | 3964 | 3978 | rVB4  | 11109 | 30323  | 4.41%  | 0.344% |
| 84 | 14.301 | 4018 | 4031 | 4045 | rBV9  | 25646 | 63189  | 9.19%  | 0.717% |
| 85 | 14.577 | 4110 | 4117 | 4127 | rBV9  | 6382  | 10403  | 1.51%  | 0.118% |
| 86 | 14.671 | 4135 | 4146 | 4150 | rBV9  | 5528  | 10256  | 1.49%  | 0.116% |
| 87 | 15.410 | 4365 | 4376 | 4385 | rBV5  | 17378 | 31205  | 4.54%  | 0.354% |
| 88 | 16.413 | 4678 | 4688 | 4693 | rVV5  | 8334  | 13557  | 1.97%  | 0.154% |
| 89 | 16.449 | 4693 | 4699 | 4709 | rVB6  | 7979  | 12032  | 1.75%  | 0.137% |
| 90 | 16.886 | 4830 | 4835 | 4845 | rVB10 | 5795  | 8724   | 1.27%  | 0.099% |
| 91 | 17.095 | 4892 | 4900 | 4911 | rVB2  | 18184 | 32465  | 4.72%  | 0.368% |

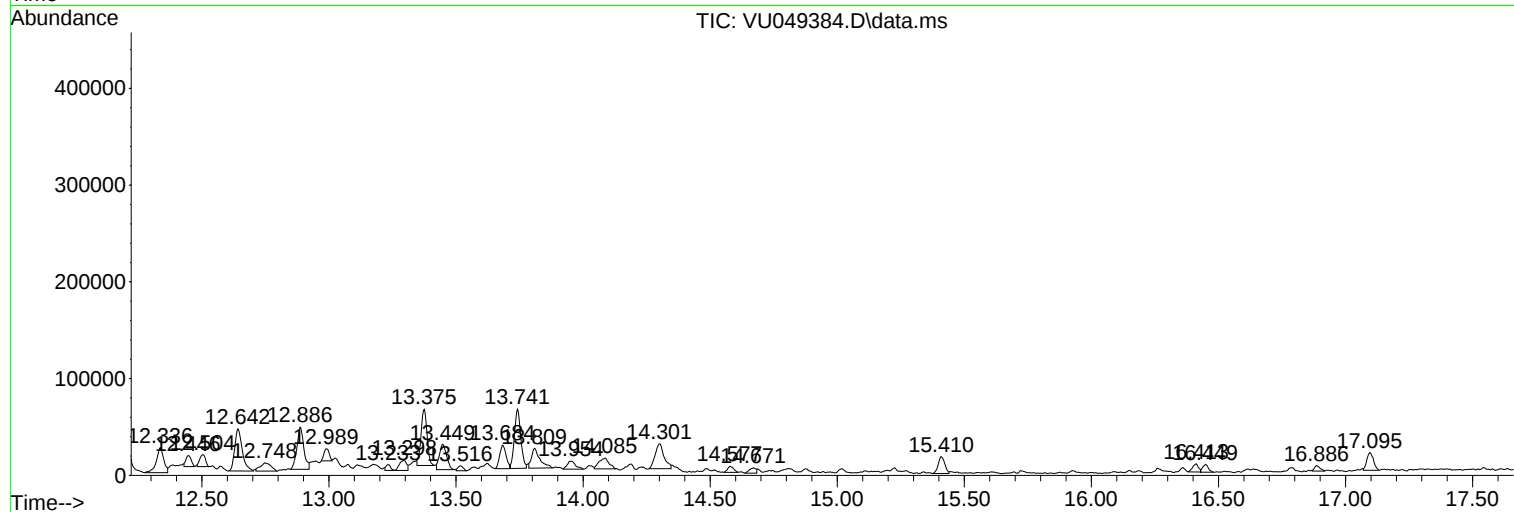
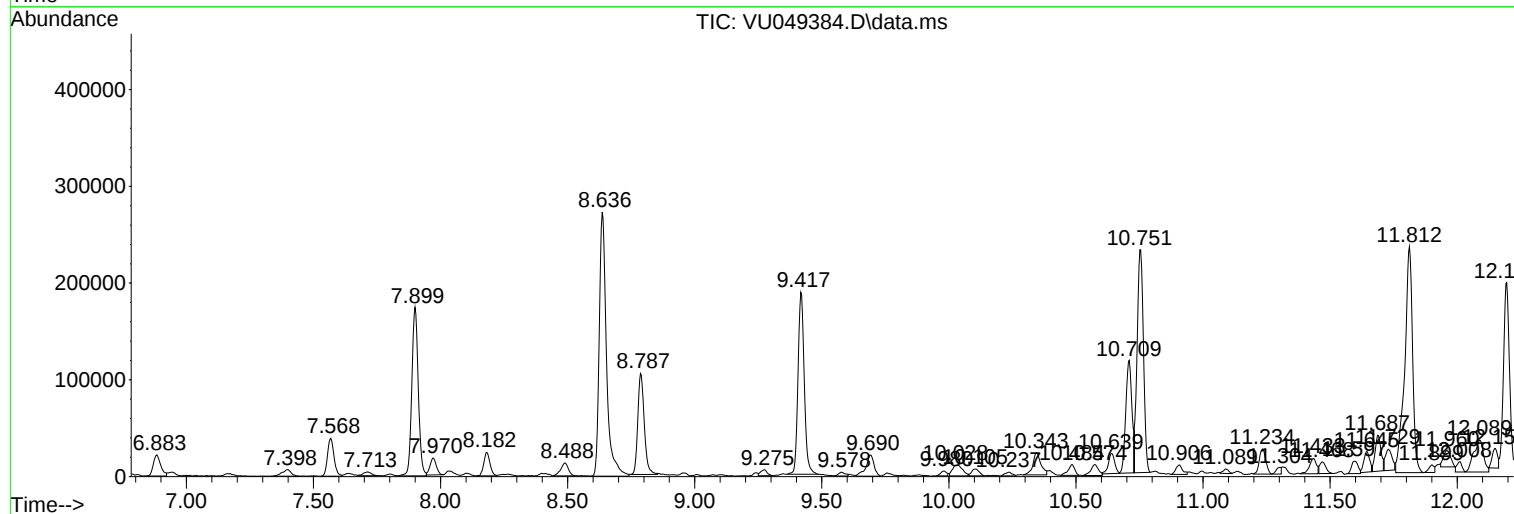
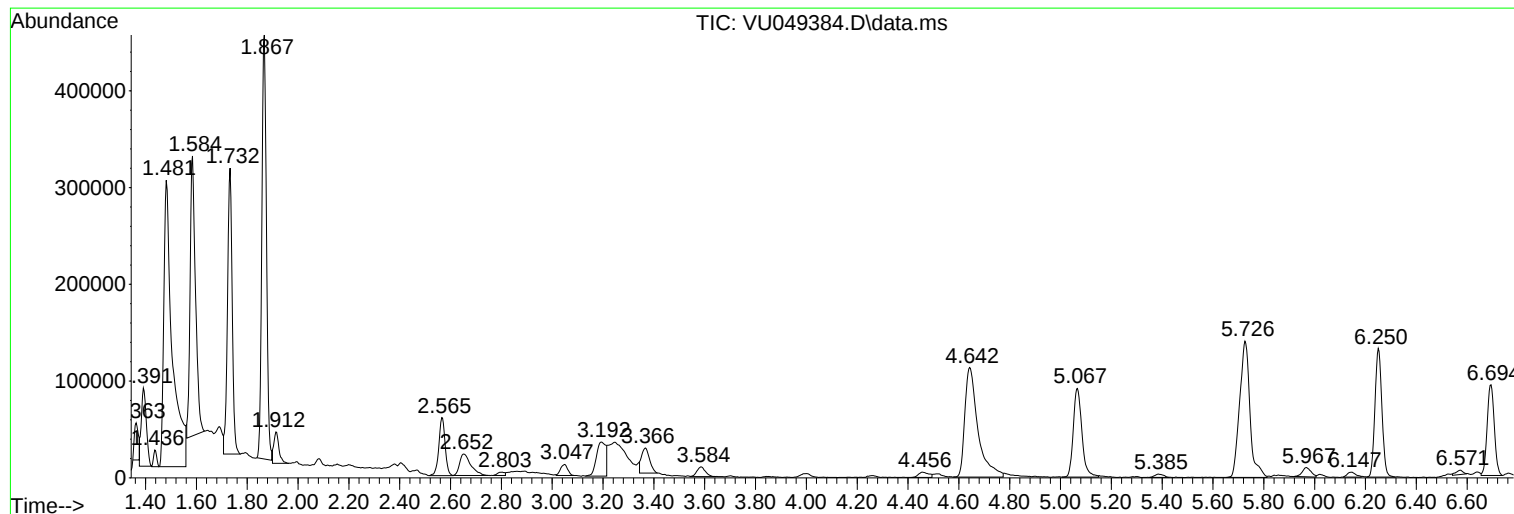
Sum of corrected areas: 8810742

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062422\  
Data File : VU049384.D  
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Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
EW4T7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR061422WMA.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\VU062422\  
Data File : VU049384.D  
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Sample : N3374-07  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
EW4T7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR061422WMA.M  
Quant Title : TRACE VOA SFAM1.0

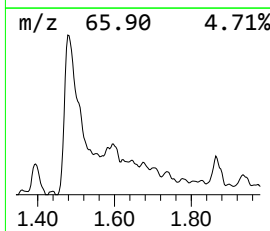
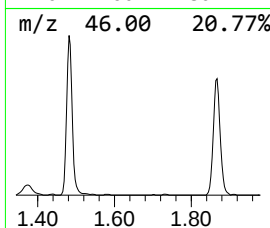
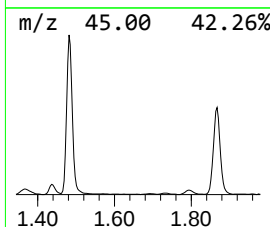
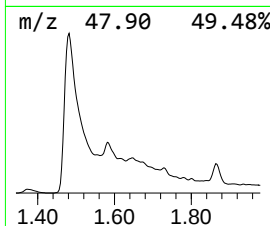
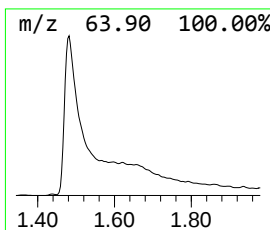
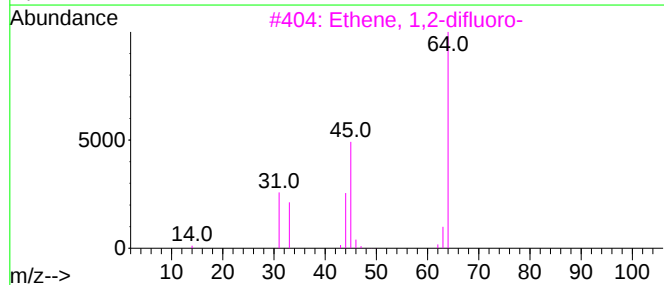
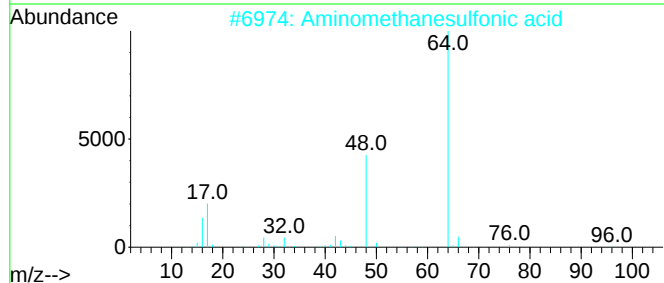
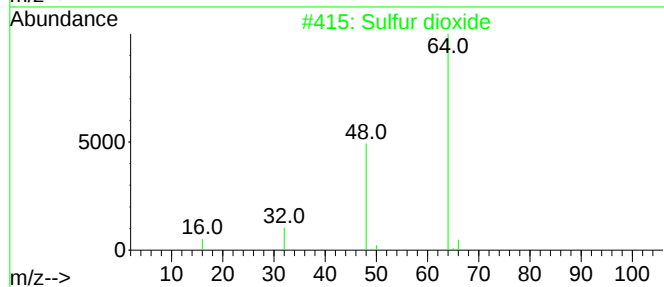
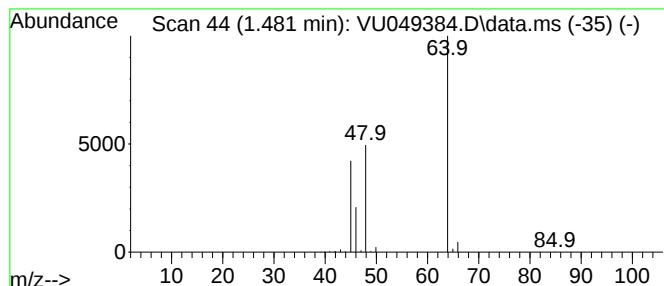
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Sulfur dioxide Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD    | R.T.  |
|-------|------------|--------|---------------------|-------|
| 1.481 | 13.60 ug/L | 687728 | 1,4-Difluorobenzene | 6.250 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm  | CAS#        | Qual |
|------|----|---|---------------------------|-----|----------|-------------|------|
| 1    |    |   | Sulfur dioxide            | 64  | O2S      | 007446-09-5 | 72   |
| 2    |    |   | Aminomethanesulfonic acid | 111 | CH5NO3S  | 013881-91-9 | 56   |
| 3    |    |   | Ethene, 1,2-difluoro-     | 64  | C2H2F2   | 001691-13-0 | 9    |
| 4    |    |   | L-Alanine, 3-sulfo-       | 169 | C3H7NO5S | 000498-40-8 | 9    |
| 5    |    |   | Aminomethanesulfonic acid | 111 | CH5NO3S  | 013881-91-9 | 9    |



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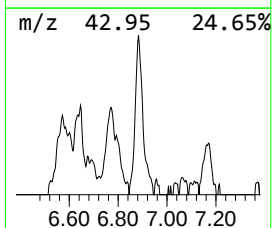
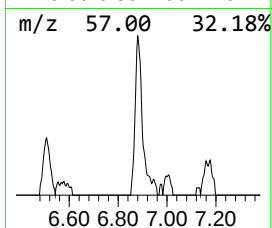
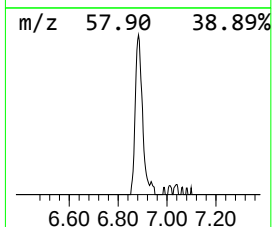
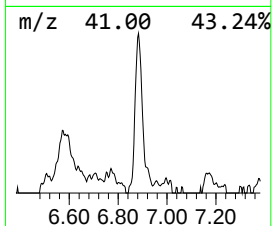
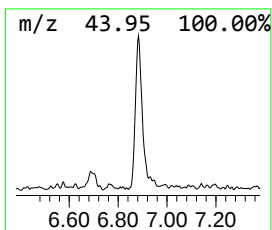
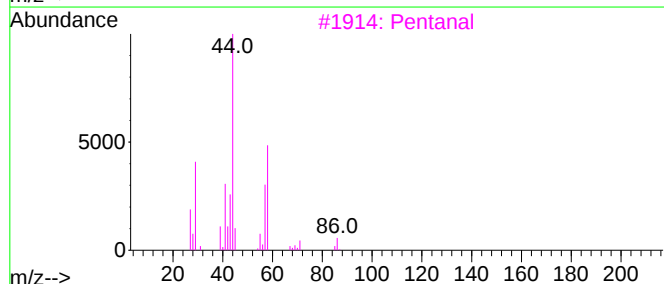
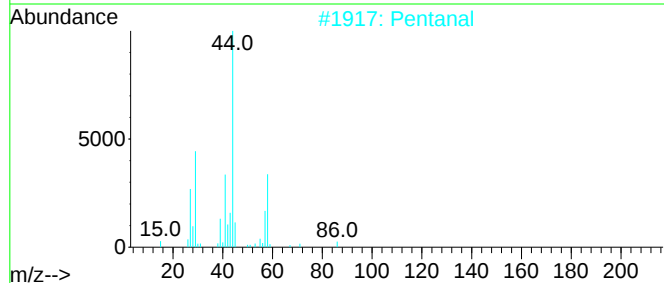
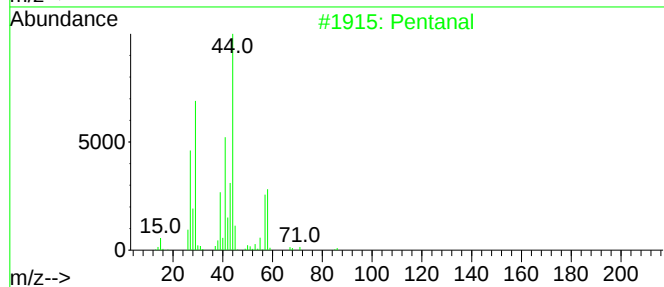
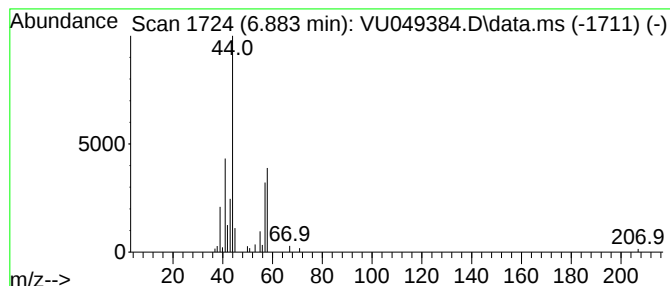
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR061422WMA.M  
Quant Title : TRACE VOA SFAM1.0

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

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Peak Number 4 Pentanal Concentration Rank 10

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 6.883 | 0.87 ug/L | 43901 | 1,4-Difluorobenzene | 6.250 |

| Hit# | of                   | 5 | Tentative ID | MW | MolForm | CAS#        | Qual |
|------|----------------------|---|--------------|----|---------|-------------|------|
| 1    | Pentanal             |   |              | 86 | C5H10O  | 000110-62-3 | 83   |
| 2    | Pentanal             |   |              | 86 | C5H10O  | 000110-62-3 | 78   |
| 3    | Pentanal             |   |              | 86 | C5H10O  | 000110-62-3 | 72   |
| 4    | Pentanal             |   |              | 86 | C5H10O  | 000110-62-3 | 43   |
| 5    | Cyclopropyl carbinol |   |              | 72 | C4H8O   | 002516-33-8 | 40   |



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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
EW4T7

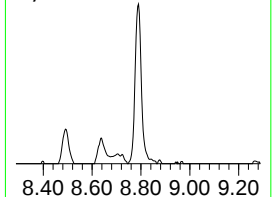
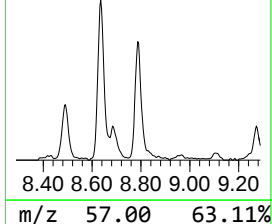
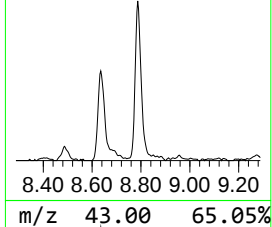
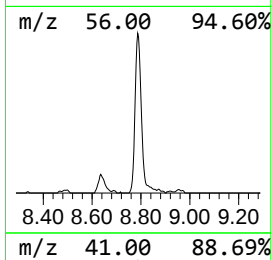
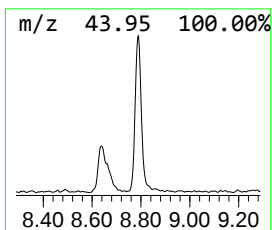
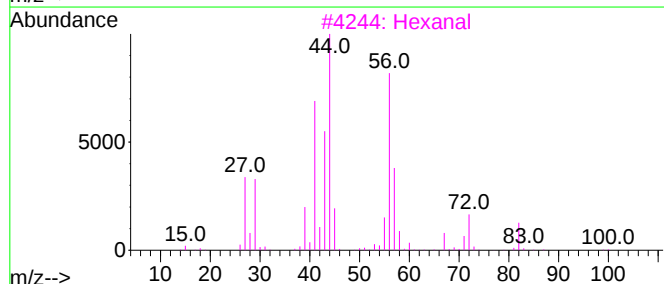
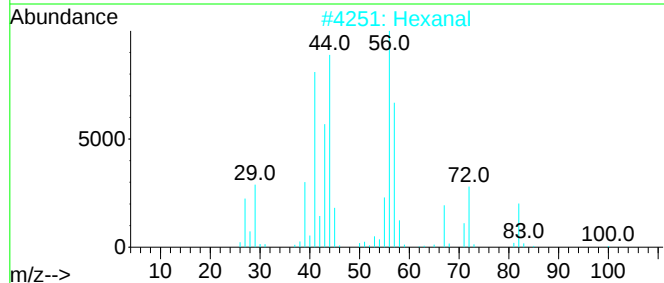
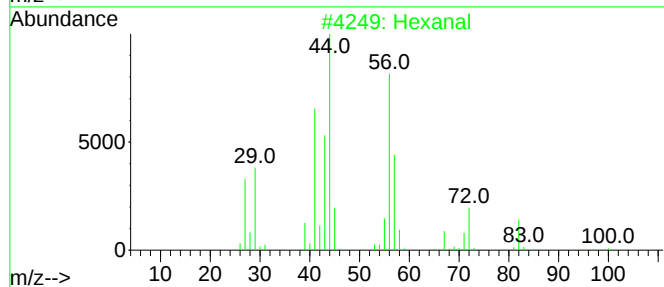
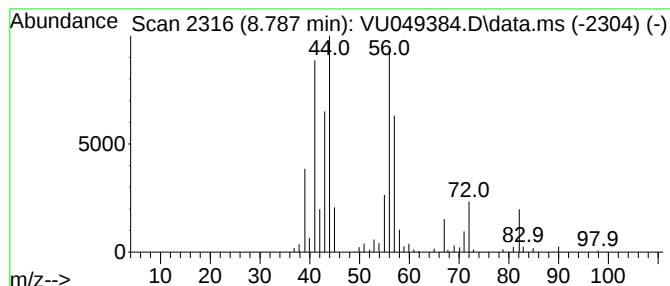
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Quant Title : TRACE VOA SFAM1.0

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

\*\*\*\*\*  
Peak Number 6 Hexanal Concentration Rank 3

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 8.787 | 2.87 ug/L | 184053 | Chlorobenzene-d5 | 9.417 |

| Hit# | of      | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|---------|---|--------------|-----|---------|-------------|------|
| 1    | Hexanal |   |              | 100 | C6H12O  | 000066-25-1 | 72   |
| 2    | Hexanal |   |              | 100 | C6H12O  | 000066-25-1 | 72   |
| 3    | Hexanal |   |              | 100 | C6H12O  | 000066-25-1 | 64   |
| 4    | Hexanal |   |              | 100 | C6H12O  | 000066-25-1 | 64   |
| 5    | Hexanal |   |              | 100 | C6H12O  | 000066-25-1 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062422\  
Data File : VU049384.D  
Acq On : 24 Jun 2022 13:32  
Operator : SY/MD  
Sample : N3374-07  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
EW4T7

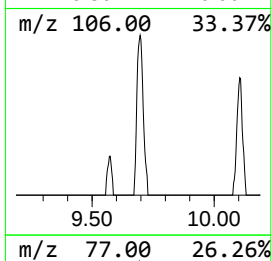
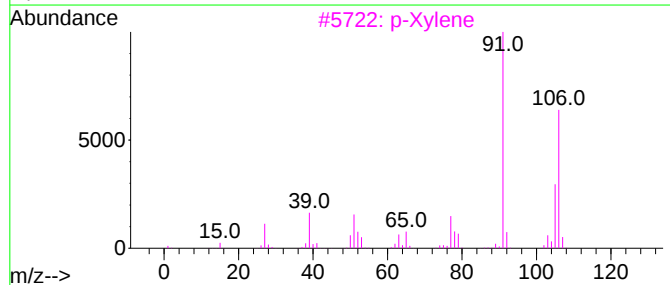
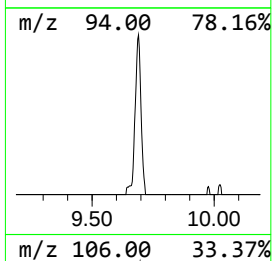
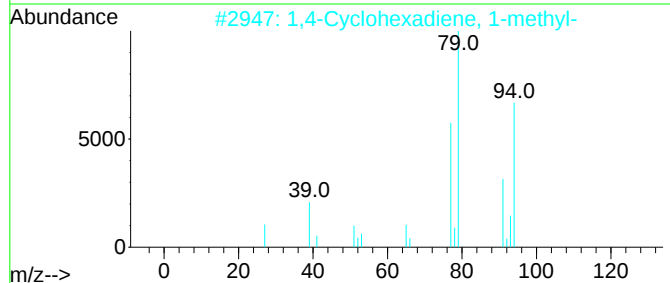
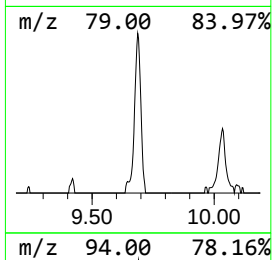
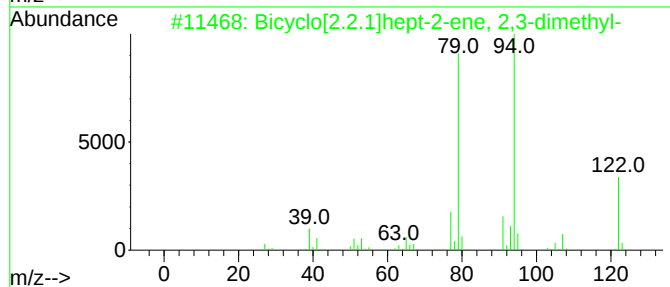
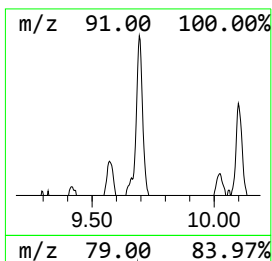
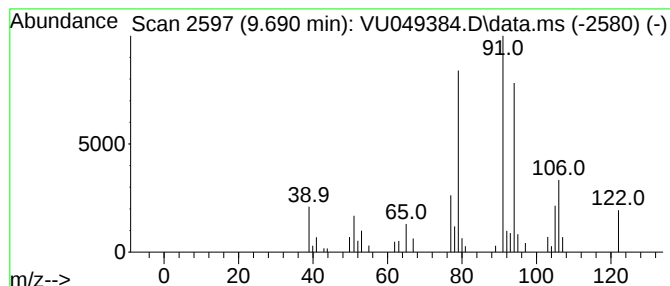
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Quant Title : TRACE VOA SFAM1.0

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

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Peak Number 7 Bicyclo[2.2.1]hept-2-ene, 2... Concentration Rank 13

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 9.690 | 0.75 ug/L | 48062 | Chlorobenzene-d5 | 9.417 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Bicyclo[2.2.1]hept-2-ene, 2,3-di... | 122 | C9H14   | 000529-16-8 | 59   |
| 2    |    |   | 1,4-Cyclohexadiene, 1-methyl-       | 94  | C7H10   | 004313-57-9 | 46   |
| 3    |    |   | p-Xylene                            | 106 | C8H10   | 000106-42-3 | 25   |
| 4    |    |   | p-Xylene                            | 106 | C8H10   | 000106-42-3 | 25   |
| 5    |    |   | Cyclopentene, 1-ethenyl-3-methyl... | 106 | C8H10   | 061142-07-2 | 22   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062422\  
Data File : VU049384.D  
Acq On : 24 Jun 2022 13:32  
Operator : SY/MD  
Sample : N3374-07  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
EW4T7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR061422WMA.M  
Quant Title : TRACE VOA SFAM1.0

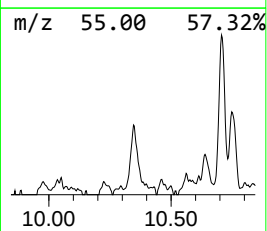
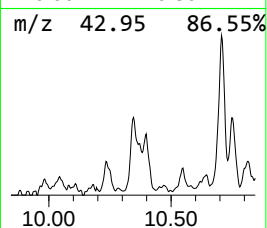
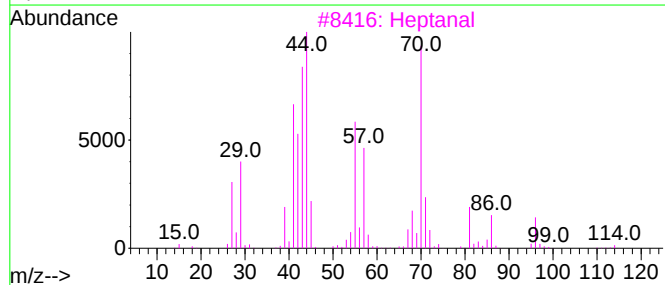
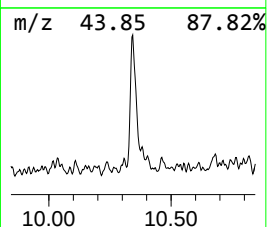
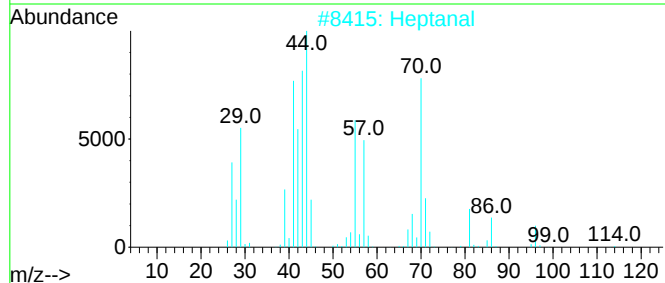
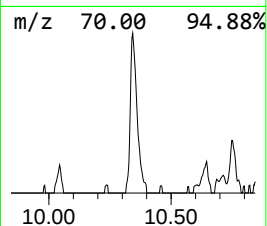
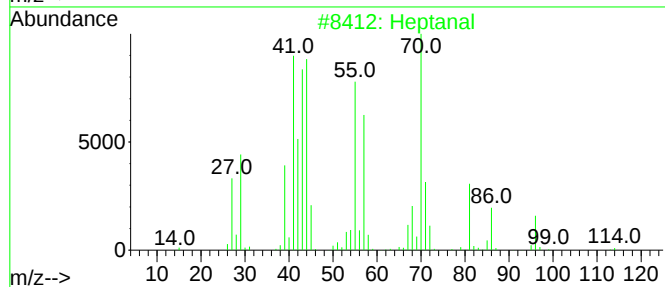
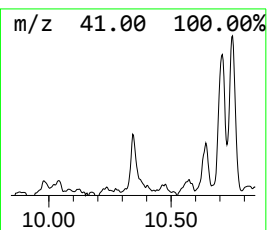
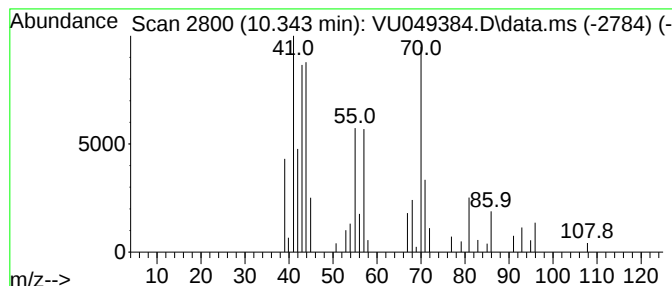
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TIC Integration Parameters: LSCINT.P

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Peak Number 8 Heptanal Concentration Rank 12

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.  |
|--------|-----------|-------|------------------|-------|
| 10.343 | 0.79 ug/L | 50615 | Chlorobenzene-d5 | 9.417 |

| 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 | 80   |
| 4    | Heptanal |   |              | 114 | C7H14O  | 000111-71-7 | 72   |
| 5    | Heptanal |   |              | 114 | C7H14O  | 000111-71-7 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062422\  
Data File : VU049384.D  
Acq On : 24 Jun 2022 13:32  
Operator : SY/MD  
Sample : N3374-07  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
EW4T7

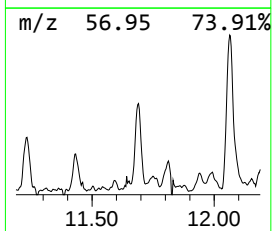
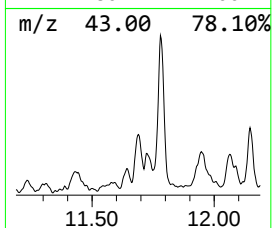
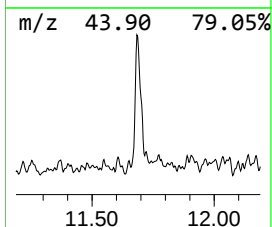
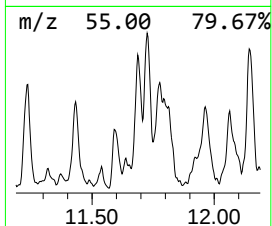
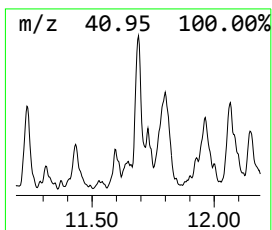
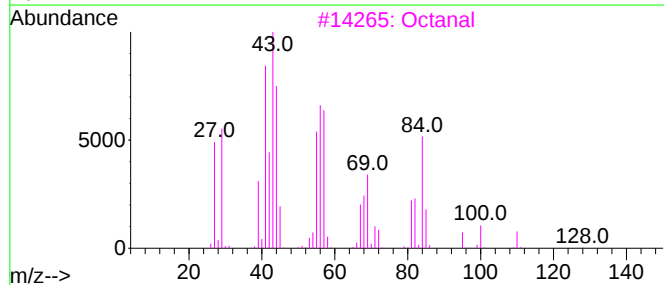
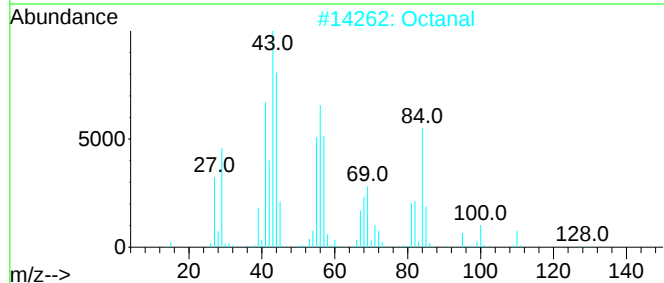
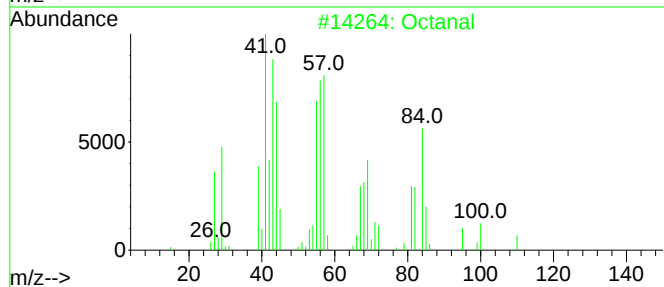
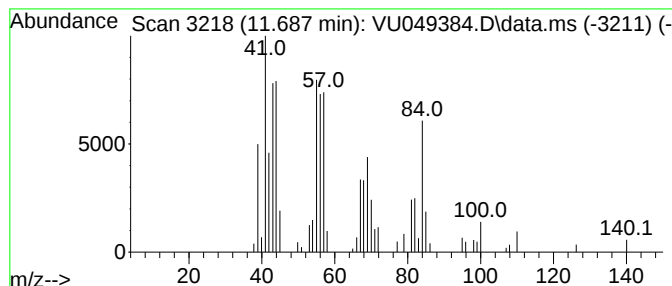
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Quant Title : TRACE VOA SFAM1.0

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

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Peak Number 9 Octanal Concentration Rank 15

| R.T.      | EstConc             | Area  | Relative to ISTD       | R.T.        |      |
|-----------|---------------------|-------|------------------------|-------------|------|
| 11.687    | 0.59 ug/L           | 60008 | 1,4-Dichlorobenzene-d4 | 11.812      |      |
| Hit# of 5 | Tentative ID        | MW    | MolForm                | CAS#        | Qual |
| 1         | Octanal             | 128   | C8H16O                 | 000124-13-0 | 87   |
| 2         | Octanal             | 128   | C8H16O                 | 000124-13-0 | 86   |
| 3         | Octanal             | 128   | C8H16O                 | 000124-13-0 | 80   |
| 4         | 2-Hepten-1-ol, (E)- | 114   | C7H14O                 | 033467-76-4 | 27   |
| 5         | 2-Hexene            | 84    | C6H12                  | 000592-43-8 | 25   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062422\  
Data File : VU049384.D  
Acq On : 24 Jun 2022 13:32  
Operator : SY/MD  
Sample : N3374-07  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
EW4T7

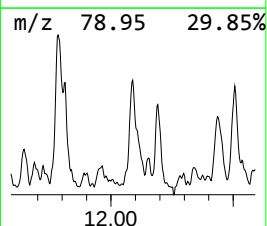
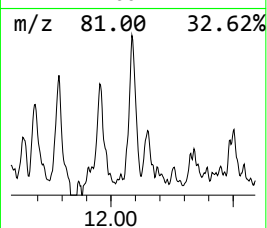
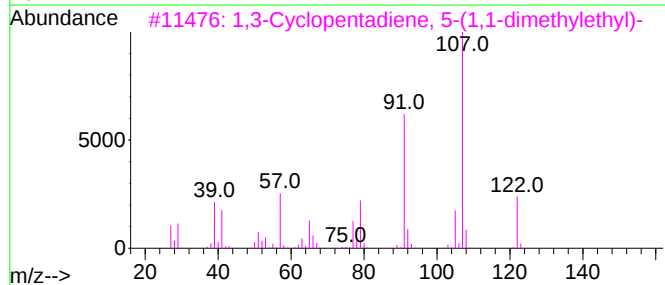
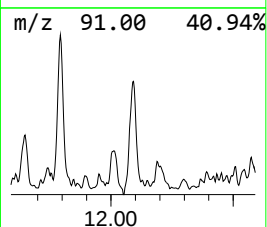
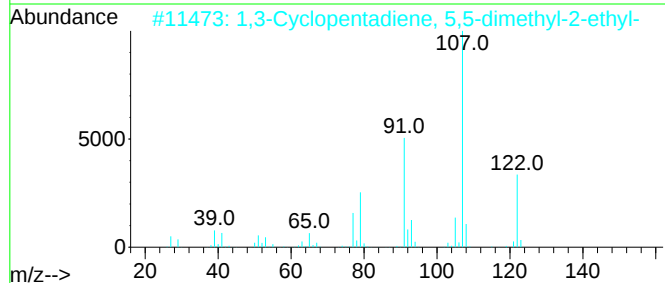
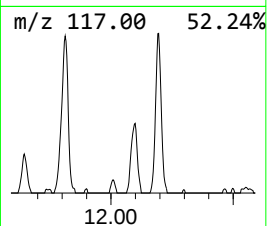
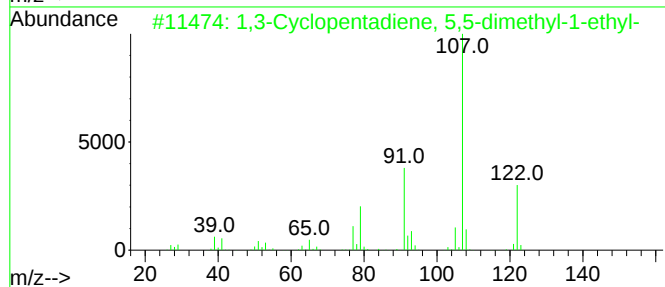
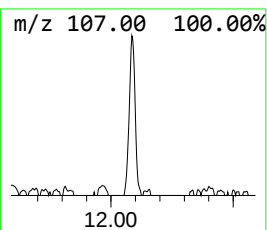
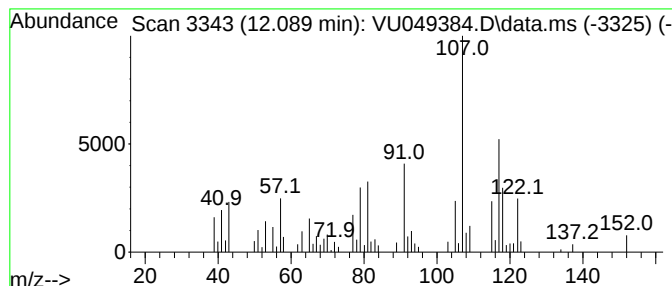
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Quant Title : TRACE VOA SFAM1.0

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

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Peak Number 10 1,3-Cyclopentadiene, 5,5-di... Concentration Rank 9

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 12.089 | 0.88 ug/L | 89257 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | 1,3-Cyclopentadiene, 5,5-dimethy... | 122 | C9H14   | 1000162-25-7 | 55   |
| 2    |    |   | 1,3-Cyclopentadiene, 5,5-dimethy... | 122 | C9H14   | 1000162-25-6 | 50   |
| 3    |    |   | 1,3-Cyclopentadiene, 5-(1,1-dime... | 122 | C9H14   | 035059-40-6  | 46   |
| 4    |    |   | Phenol, 4-ethyl-                    | 122 | C8H10O  | 000123-07-9  | 38   |
| 5    |    |   | 1,6-Dimethylhepta-1,3,5-triene      | 122 | C9H14   | 1000196-61-0 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062422\  
Data File : VU049384.D  
Acq On : 24 Jun 2022 13:32  
Operator : SY/MD  
Sample : N3374-07  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
EW4T7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR061422WMA.M  
Quant Title : TRACE VOA SFAM1.0

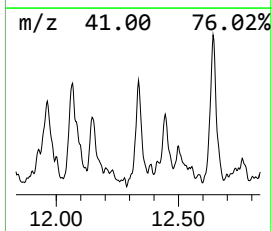
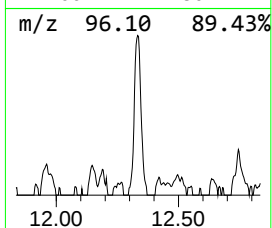
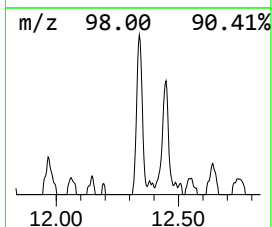
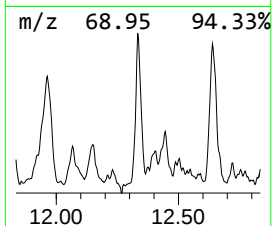
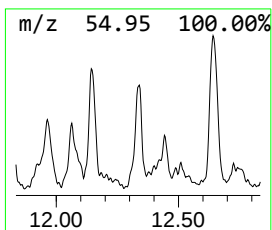
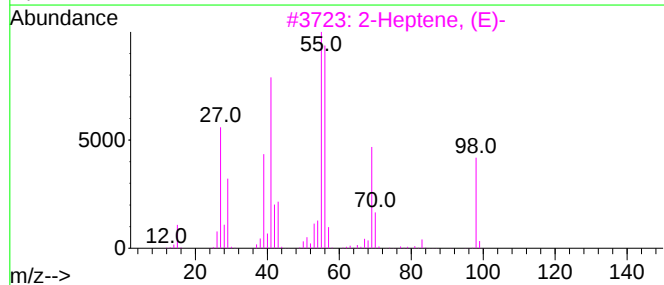
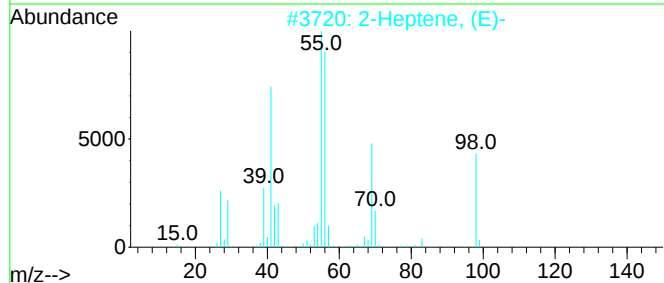
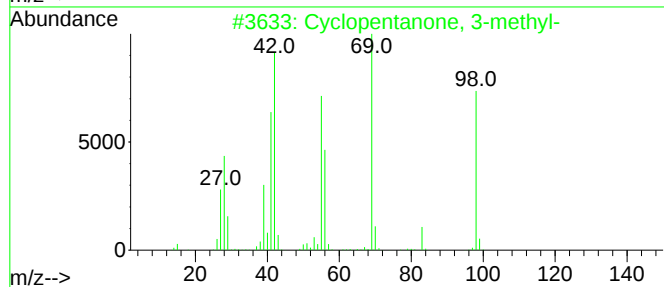
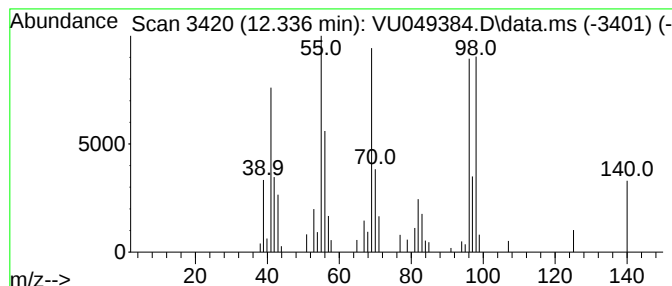
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 unknown-01 Concentration Rank 16

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 12.336 | 0.51 ug/L | 52015 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# | of | 5 | Tentative ID                     | MW | MolForm | CAS#        | Qual |
|------|----|---|----------------------------------|----|---------|-------------|------|
| 1    |    |   | Cyclopentanone, 3-methyl-        | 98 | C6H10O  | 001757-42-2 | 46   |
| 2    |    |   | 2-Heptene, (E)-                  | 98 | C7H14   | 014686-13-6 | 41   |
| 3    |    |   | 2-Heptene, (E)-                  | 98 | C7H14   | 014686-13-6 | 38   |
| 4    |    |   | Furan, 2,5-dihydro-3,4-dimethyl- | 98 | C6H10O  | 053720-72-2 | 35   |
| 5    |    |   | 3-Pentenal, 4-methyl-            | 98 | C6H10O  | 005362-50-5 | 35   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062422\  
Data File : VU049384.D  
Acq On : 24 Jun 2022 13:32  
Operator : SY/MD  
Sample : N3374-07  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
EW4T7

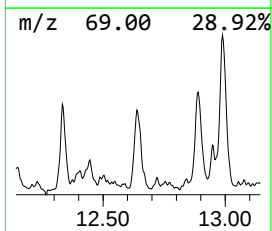
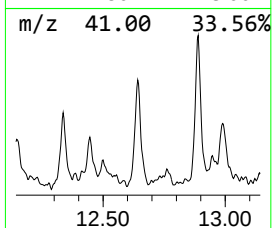
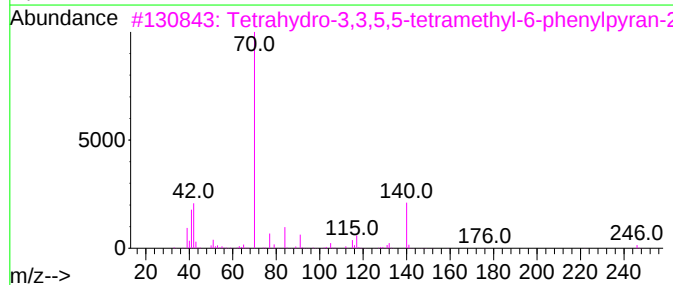
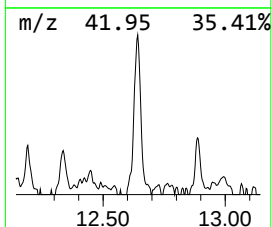
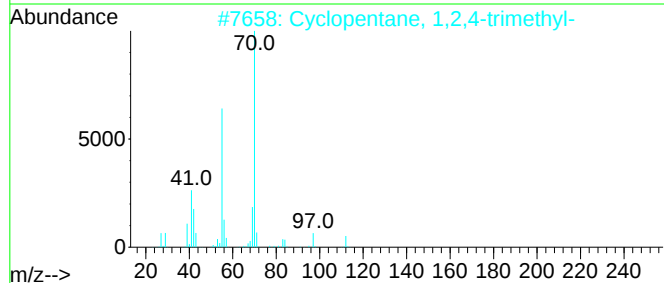
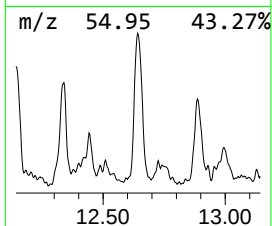
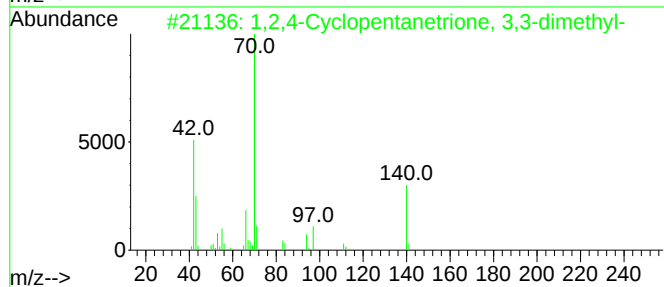
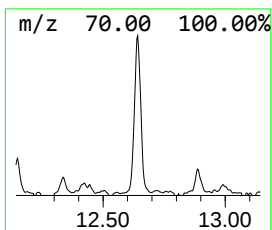
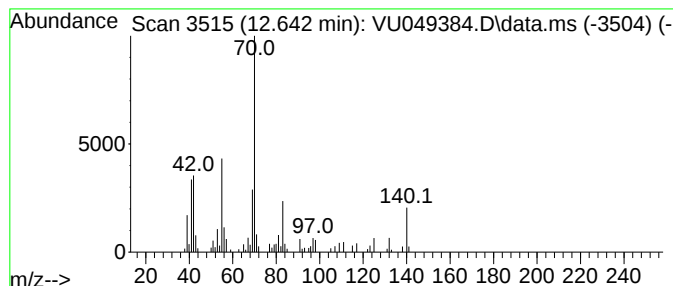
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Quant Title : TRACE VOA SFAM1.0

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

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Peak Number 12 unknown-02 Concentration Rank 8

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 12.642 | 0.89 ug/L | 89589 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|------|-------------------------------------|-----|-----------|--------------|------|
| 1    |      | 1,2,4-Cyclopentanetrione, 3,3-di... | 140 | C7H8O3    | 017530-56-2  | 43   |
| 2    |      | Cyclopentane, 1,2,4-trimethyl-      | 112 | C8H16     | 002815-58-9  | 43   |
| 3    |      | Tetrahydro-3,3,5,5-tetramethyl-6... | 246 | C15H18O3  | 026735-88-6  | 42   |
| 4    |      | 2H-Pyran-2,4(3H)-dione, dihydro-... | 291 | C15H17NO5 | 1010273-66-4 | 42   |
| 5    |      | 2-Nonene, 3-methyl-, (E)-           | 140 | C10H20    | 017003-99-5  | 42   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062422\  
Data File : VU049384.D  
Acq On : 24 Jun 2022 13:32  
Operator : SY/MD  
Sample : N3374-07  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
EW4T7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR061422WMA.M  
Quant Title : TRACE VOA SFAM1.0

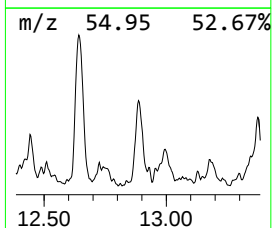
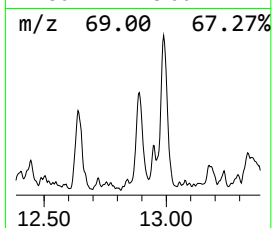
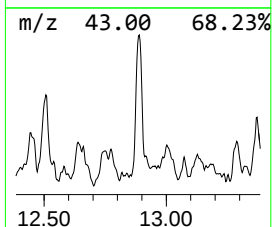
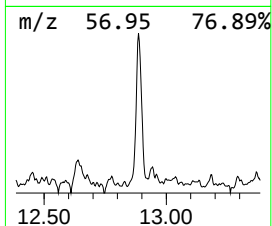
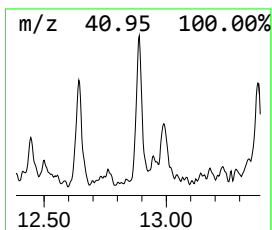
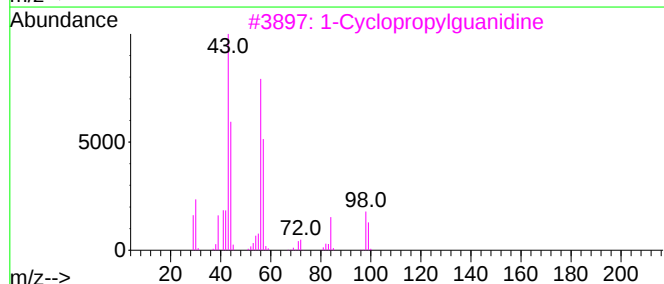
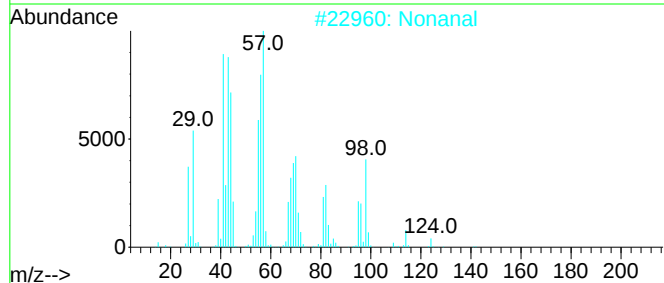
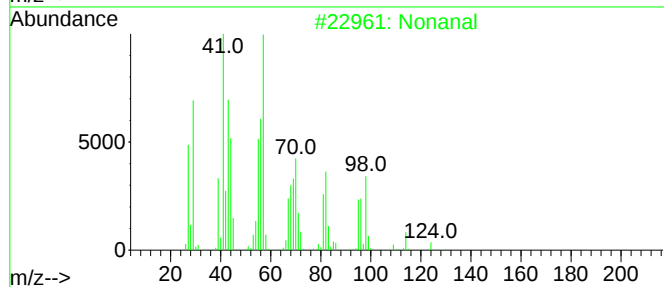
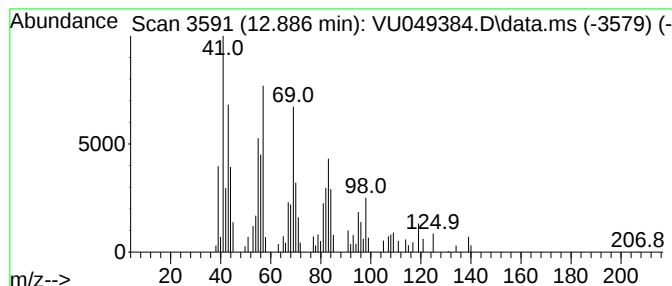
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 unknown-03 Concentration Rank 11

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 12.886 | 0.82 ug/L | 83094 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Nonanal                        | 142 | C9H18O  | 000124-19-6 | 49   |
| 2    |    |   | Nonanal                        | 142 | C9H18O  | 000124-19-6 | 49   |
| 3    |    |   | 1-Cyclopropylguanidine         | 99  | C4H9N3  | 168627-33-6 | 35   |
| 4    |    |   | Cyclopentane, (2-methylbutyl)- | 140 | C10H20  | 053366-38-4 | 30   |
| 5    |    |   | 4-Piperidylmethanol            | 115 | C6H13NO | 006457-49-4 | 30   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062422\  
Data File : VU049384.D  
Acq On : 24 Jun 2022 13:32  
Operator : SY/MD  
Sample : N3374-07  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
EW4T7

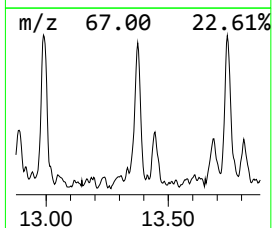
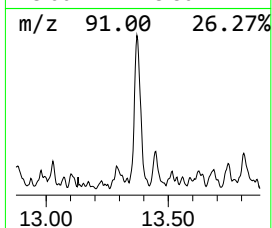
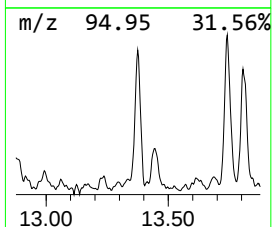
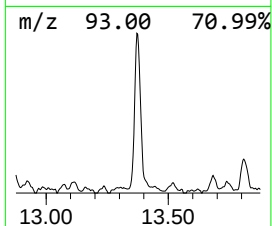
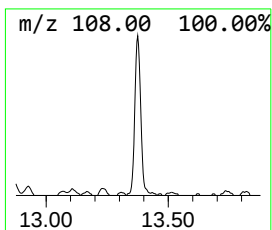
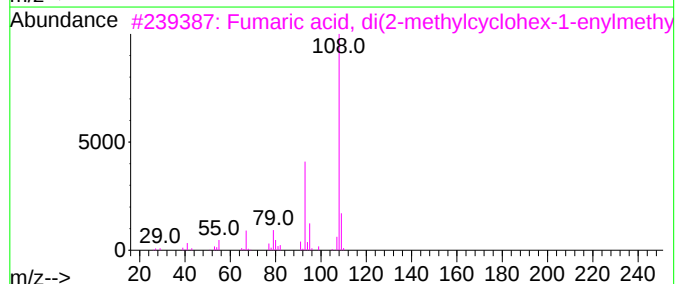
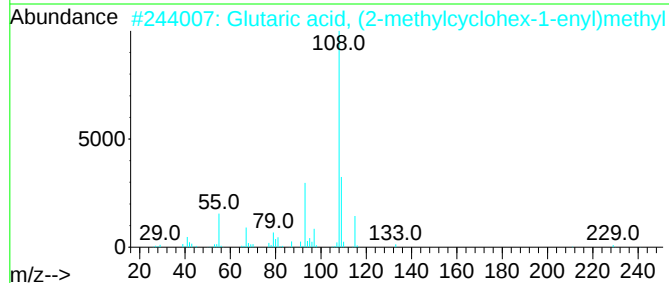
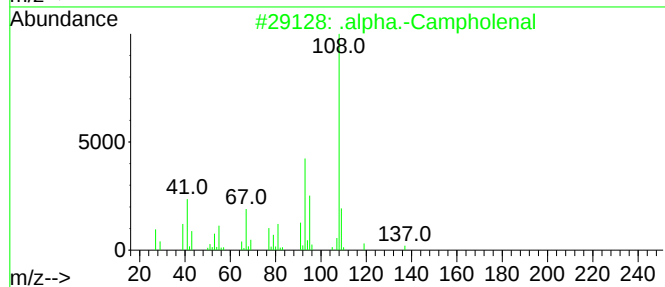
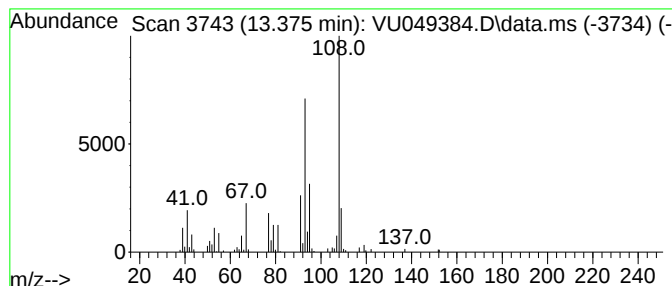
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Quant Title : TRACE VOA SFAM1.0

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

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Peak Number 14 .alpha.-Campholenal Concentration Rank 7

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.375 | 0.94 ug/L | 95523 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm  | CAS#         | Qual |
|------|----|---|--------------------------------------|-----|----------|--------------|------|
| 1    |    |   | .alpha.-Campholenal                  | 152 | C10H16O  | 004501-58-0  | 78   |
| 2    |    |   | Glutaric acid, (2-methylcyclohex...  | 336 | C20H32O4 | 1000405-50-7 | 72   |
| 3    |    |   | Fumaric acid, di(2-methylcyclohex... | 332 | C20H28O4 | 1000345-16-5 | 64   |
| 4    |    |   | .alpha.-Campholenal                  | 152 | C10H16O  | 004501-58-0  | 64   |
| 5    |    |   | Glutaric acid, (2-methylcyclohex...  | 418 | C26H42O4 | 1000405-51-1 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062422\  
Data File : VU049384.D  
Acq On : 24 Jun 2022 13:32  
Operator : SY/MD  
Sample : N3374-07  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
EW4T7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR061422WMA.M  
Quant Title : TRACE VOA SFAM1.0

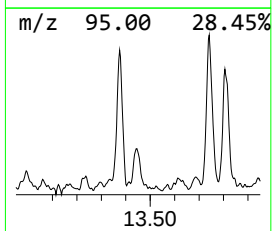
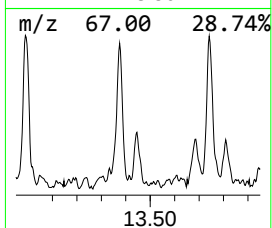
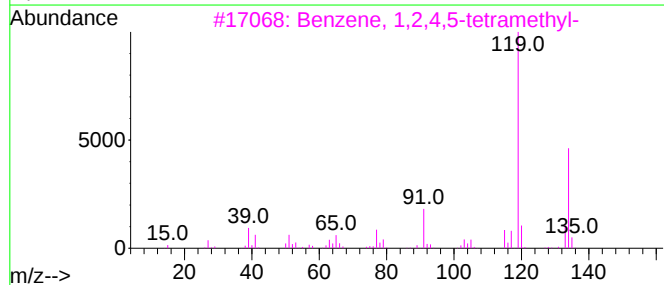
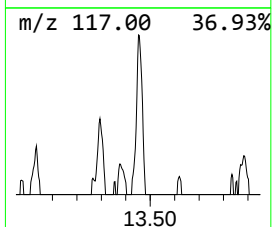
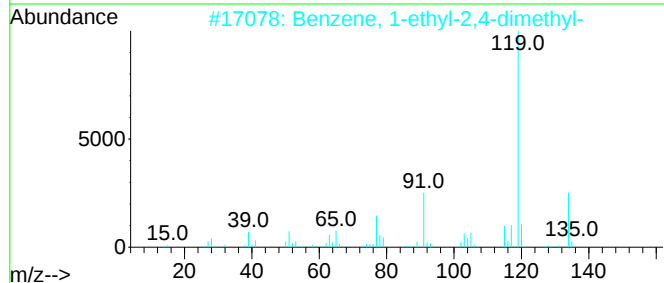
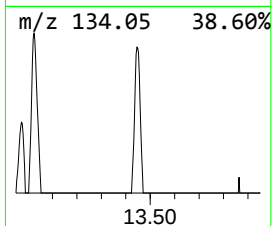
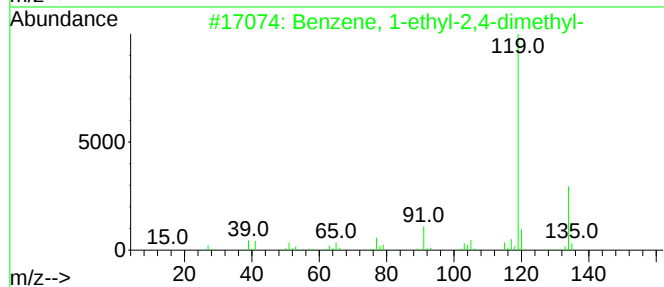
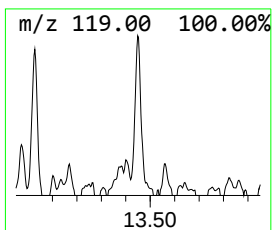
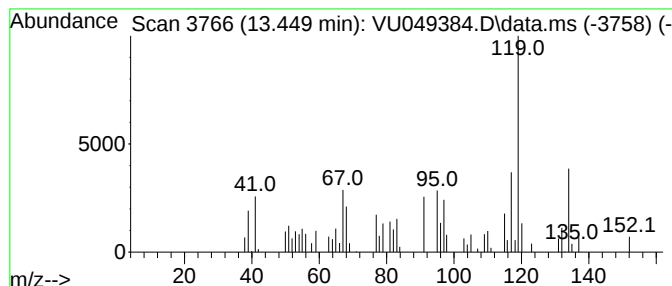
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 17

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.449 | 0.50 ug/L | 50662 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14  | 000874-41-9 | 55   |
| 2    |    |   | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14  | 000874-41-9 | 55   |
| 3    |    |   | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 49   |
| 4    |    |   | o-Cymene                       | 134 | C10H14  | 000527-84-4 | 49   |
| 5    |    |   | Benzene, 1,2,3,5-tetramethyl-  | 134 | C10H14  | 000527-53-7 | 49   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062422\  
Data File : VU049384.D  
Acq On : 24 Jun 2022 13:32  
Operator : SY/MD  
Sample : N3374-07  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
EW4T7

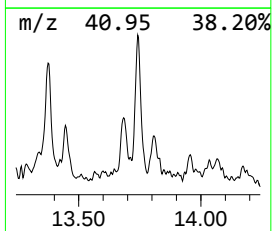
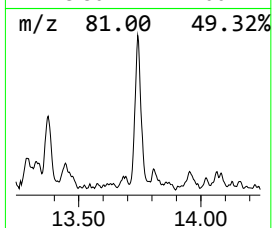
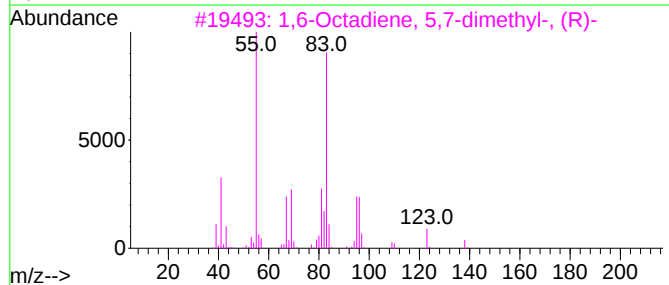
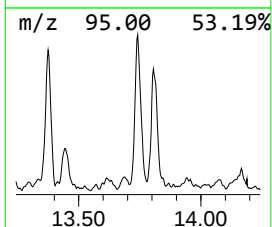
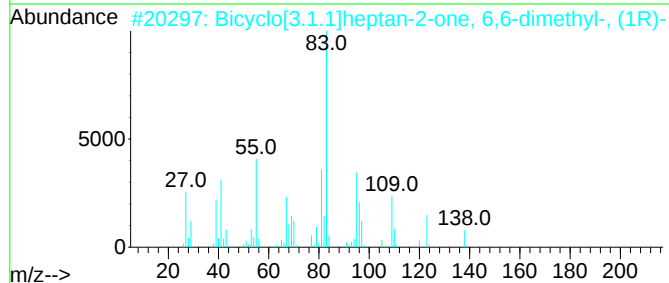
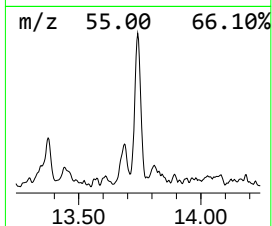
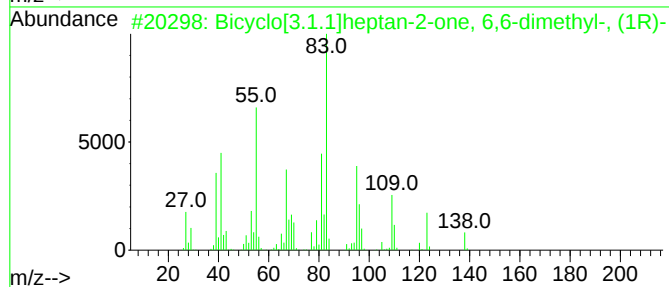
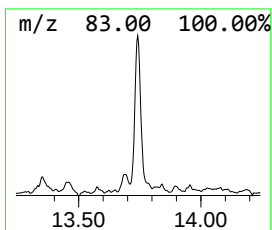
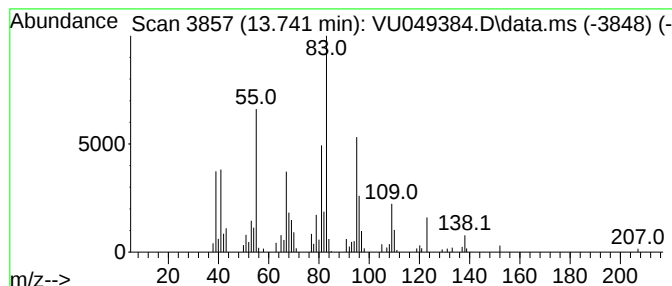
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Quant Title : TRACE VOA SFAM1.0

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

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Peak Number 16 Bicyclo[3.1.1]heptan-2-one,... Concentration Rank 6

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.742 | 1.05 ug/L | 106347 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Bicyclo[3.1.1]heptan-2-one, 6,6-... | 138 | C9H14O  | 038651-65-9 | 93   |
| 2    |    |   | Bicyclo[3.1.1]heptan-2-one, 6,6-... | 138 | C9H14O  | 038651-65-9 | 87   |
| 3    |    |   | 1,6-Octadiene, 5,7-dimethyl-, (R)-  | 138 | C10H18  | 085006-04-8 | 58   |
| 4    |    |   | (-)-trans-Pinane                    | 138 | C10H18  | 033626-25-4 | 50   |
| 5    |    |   | Bicyclo[3.1.1]heptan-2-one, 6,6-... | 138 | C9H14O  | 024903-95-5 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062422\  
Data File : VU049384.D  
Acq On : 24 Jun 2022 13:32  
Operator : SY/MD  
Sample : N3374-07  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
EW4T7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR061422WMA.M  
Quant Title : TRACE VOA SFAM1.0

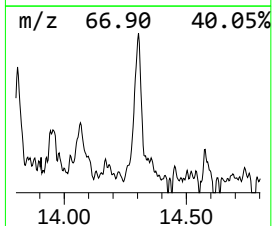
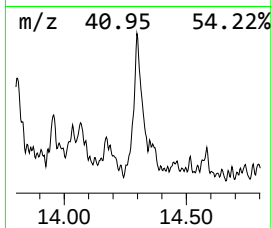
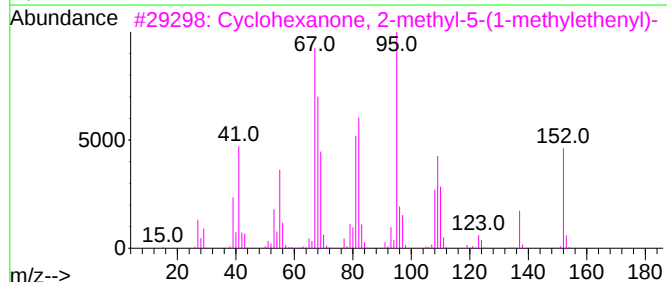
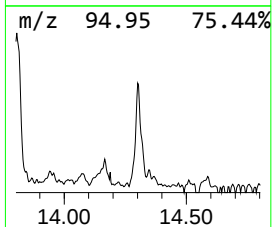
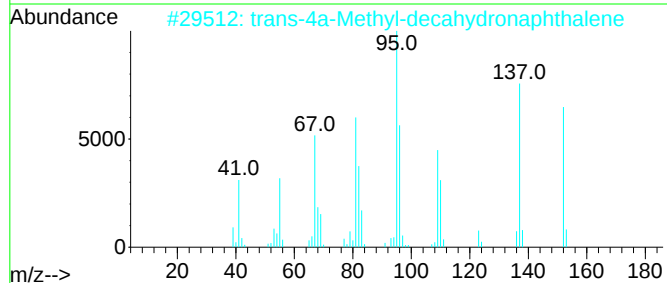
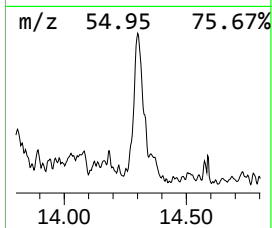
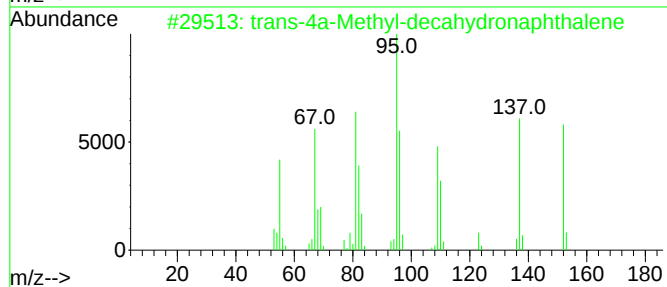
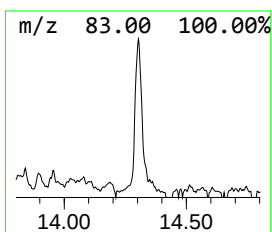
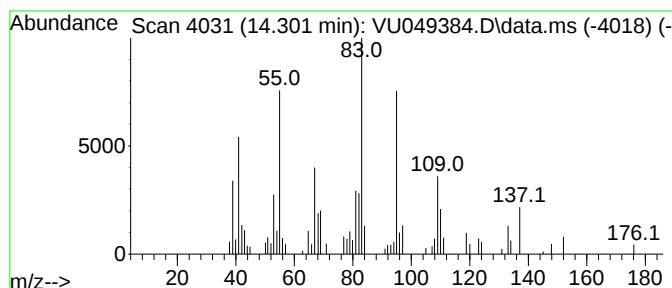
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 trans-4a-Methyl-decahydrona... Concentration Rank 14

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 14.301 | 0.62 ug/L | 63189 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | trans-4a-Methyl-decahydronaphtha... | 152 | C11H20  | 002547-27-5 | 53   |
| 2    |    |   | trans-4a-Methyl-decahydronaphtha... | 152 | C11H20  | 002547-27-5 | 49   |
| 3    |    |   | Cyclohexanone, 2-methyl-5-(1-met... | 152 | C10H16O | 007764-50-3 | 46   |
| 4    |    |   | 1,4-Hexadiene, 2,3-dimethyl-        | 110 | C8H14   | 018669-52-8 | 43   |
| 5    |    |   | 1,3-Dimethyl-1-cyclohexene          | 110 | C8H14   | 002808-76-6 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062422\  
 Data File : VU049384.D  
 Acq On : 24 Jun 2022 13:32  
 Operator : SY/MD  
 Sample : N3374-07  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EW4T7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR061422WMA.M  
 Quant Title : TRACE VOA SFAM1.0

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

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |        |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|--------|------|
|                    |        |         |       |          | #                     | RT     | Resp   | Conc |
| Sulfur dioxide     | 1.481  | 13.6    | ug/L  | 687728   | 1                     | 6.250  | 252907 | 5.0  |
| Pentanal           | 6.883  | 0.9     | ug/L  | 43901    | 1                     | 6.250  | 252907 | 5.0  |
| Hexanal            | 8.787  | 2.9     | ug/L  | 184053   | 2                     | 9.417  | 320423 | 5.0  |
| Bicyclo[2.2.1]h... | 9.690  | 0.8     | ug/L  | 48062    | 2                     | 9.417  | 320423 | 5.0  |
| Heptanal           | 10.343 | 0.8     | ug/L  | 50615    | 2                     | 9.417  | 320423 | 5.0  |
| Octanal            | 11.687 | 0.6     | ug/L  | 60008    | 3                     | 11.812 | 505589 | 5.0  |
| 1,3-Cyclopentad... | 12.089 | 0.9     | ug/L  | 89257    | 3                     | 11.812 | 505589 | 5.0  |
| unknown-01         | 12.336 | 0.5     | ug/L  | 52015    | 3                     | 11.812 | 505589 | 5.0  |
| unknown-02         | 12.642 | 0.9     | ug/L  | 89589    | 3                     | 11.812 | 505589 | 5.0  |
| unknown-03         | 12.886 | 0.8     | ug/L  | 83094    | 3                     | 11.812 | 505589 | 5.0  |
| .alpha.-Camphol... | 13.375 | 0.9     | ug/L  | 95523    | 3                     | 11.812 | 505589 | 5.0  |
| Benzene, 1-ethy... | 13.449 | 0.5     | ug/L  | 50662    | 3                     | 11.812 | 505589 | 5.0  |
| Bicyclo[3.1.1]h... | 13.742 | 1.1     | ug/L  | 106347   | 3                     | 11.812 | 505589 | 5.0  |
| trans-4a-Methyl... | 14.301 | 0.6     | ug/L  | 63189    | 3                     | 11.812 | 505589 | 5.0  |