

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU070121\  
 Data File : VU044286.D  
 Acq On : 01 Jul 2021 15:13  
 Operator : SY/MD  
 Sample : M2905-19  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DBK28

Manual Integrations  
 APPROVED

MMDadoda  
 7/6/2021 6:43:31 PM

Quant Time: Jul 02 03:41:42 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR062121WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Jul 02 01:46:49 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.308  | 114   | 132979   | 5.000    | ug/L   | 0.05     |
| 28) Chlorobenzene-d5          | 9.433  | 117   | 125394   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.822 | 152   | 72681    | 5.000    | ug/L   | # 0.00   |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.652  | 65    | 32262    | 4.481    | ug/L   | 0.05     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 89.600%  |
| 7) Chloroethane-d5            | 1.964  | 69    | 33540    | 4.731    | ug/L   | 0.04     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 94.600%  |
| 11) 1,1-Dichloroethene-d2     | 2.620  | 65    | 18062    | 4.888    | ug/L   | 0.04     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 97.800%  |
| 20) 2-Butanone-d5             | 4.761  | 46    | 113505   | 42.811   | ug/L   | 0.12     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 85.620%  |
| 24) Chloroform-d              | 5.128  | 84    | 75284    | 4.645    | ug/L   | 0.05     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 92.800%  |
| 26) 1,2-Dichloroethane-d4     | 5.780  | 65    | 42603    | 4.397    | ug/L   | 0.07     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 88.000%  |
| 32) Benzene-d6                | 5.800  | 84    | 149954   | 4.815    | ug/L   | 0.06     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 96.200%  |
| 36) 1,2-Dichloropropane-d6    | 6.745  | 67    | 49211    | 4.876    | ug/L   | 0.04     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 97.600%  |
| 41) Toluene-d8                | 7.928  | 98    | 140918   | 4.876    | ug/L   | 0.02     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 97.600%  |
| 43) trans-1,3-Dichloroprop... | 8.208  | 79    | 19369    | 4.137    | ug/L   | 0.02     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 82.800%  |
| 46) 2-Hexanone-d5             | 8.661  | 63    | 114100   | 51.171   | ug/L   | 0.02     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 102.340% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.767 | 84    | 43281    | 4.824    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 96.400%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.205 | 152   | 67037    | 5.598    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 112.000% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 12) 1,1-Dichloroethene        | 2.633  | 96    | 5310     | 0.692    | ug/L   | # 1      |
| 13) Acetone                   | 2.800  | 43    | 14766m   | 12.456   | ug/L   |          |
| 16) Methylene chloride        | 3.109  | 84    | 3613     | 0.349    | ug/L   | 96       |
| 18) trans-1,2-Dichloroethene  | 3.414  | 96    | 8607     | 1.053    | ug/L   | 90       |
| 19) 1,1-Dichloroethane        | 3.932  | 63    | 67166    | 4.309    | ug/L   | 97       |
| 22) cis-1,2-Dichloroethene    | 4.719  | 96    | 87368    | 9.770    | ug/L   | 95       |
| 29) 1,1,1-Trichloroethane     | 5.379  | 97    | 2326     | 0.165    | ug/L   | 97       |
| 30) Cyclohexane               | 5.449  | 56    | 9508     | 0.652    | ug/L   | 97       |
| 33) Benzene                   | 5.845  | 78    | 124364   | 3.781    | ug/L   | 100      |
| 34) Trichloroethene           | 6.594  | 95    | 2986     | 0.335    | ug/L   | 94       |
| 35) Methylcyclohexane         | 6.806  | 83    | 14555    | 0.990    | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.841  | 63    | 5614     | 0.646    | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 7.835  | 43    | 23807    | 3.410    | ug/L   | 99       |
| 42) Toluene                   | 7.999  | 91    | 497818   | 13.742   | ug/L   | 100      |
| 51) Chlorobenzene             | 9.465  | 112   | 12212    | 0.526    | ug/L   | 96       |
| 52) Ethylbenzene              | 9.587  | 91    | 305062   | 7.295    | ug/L   | 99       |
| 53) m,p-Xylene                | 9.706  | 106   | 379416   | 23.960   | ug/L   | 100      |
| 54) o-Xylene                  | 10.115 | 106   | 295096   | 19.171   | ug/L   | 96       |
| 60) Isopropylbenzene          | 10.494 | 105   | 158072   | 3.577    | ug/L   | # 54     |

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Manual Integrations  
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Quant Time: Jul 02 03:41:42 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR062121WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Jul 02 01:46:49 2021  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|----------------------------|--------|------|----------|--------|--------|----------|
| 62) 1,3,5-Trimethylbenzene | 11.099 | 105  | 1135255  | 29.481 | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene | 11.478 | 105  | 2200260  | 55.863 | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene    | 11.851 | 146  | 5682     | 0.282  | ug/L # | 89       |
| 67) 1,2-Dichlorobenzene    | 12.224 | 146  | 3262     | 0.174  | ug/L # | 73       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

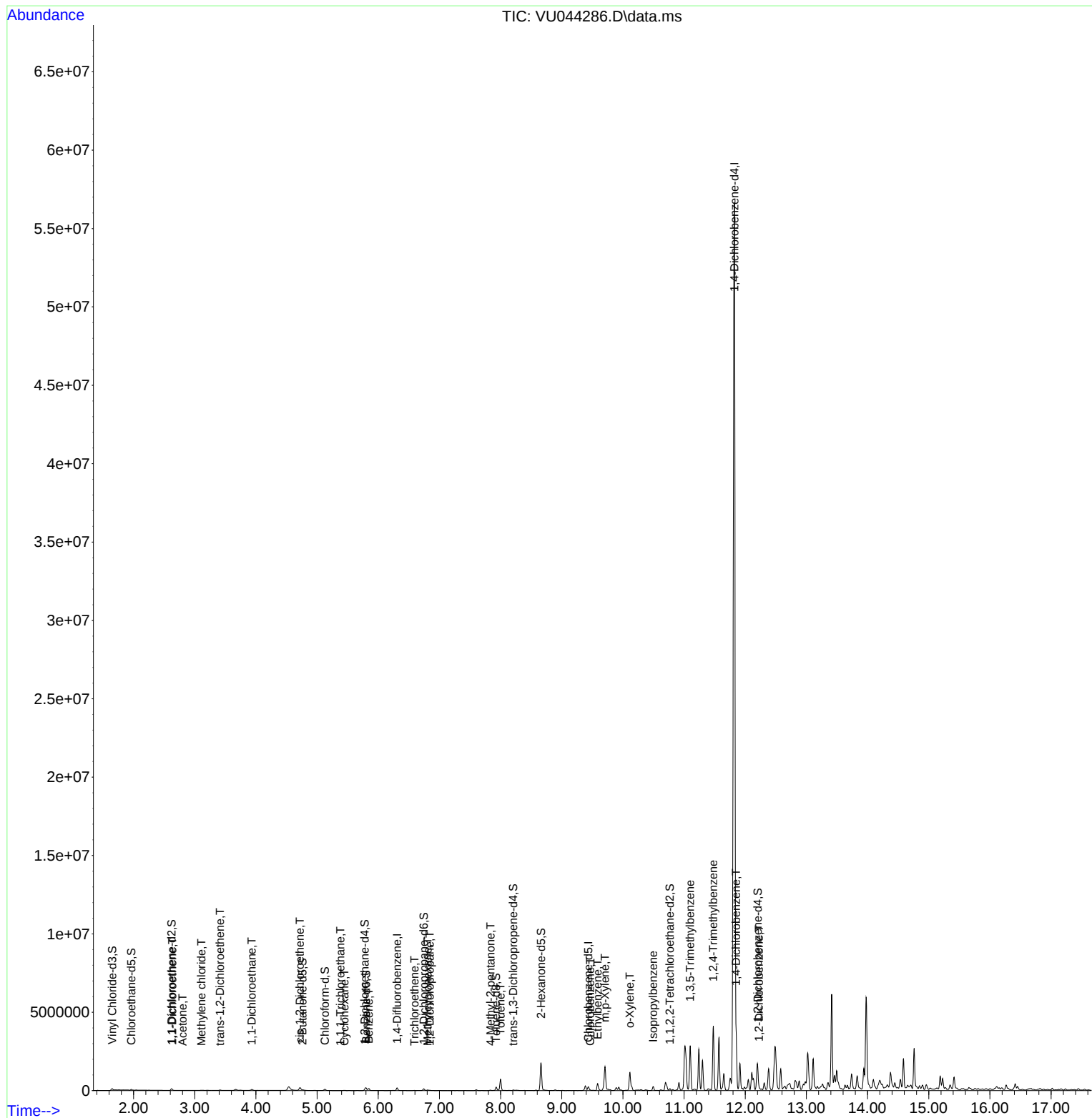
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU070121\  
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Operator : SY/MD  
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ALS Vial : 14 Sample Multiplier: 1

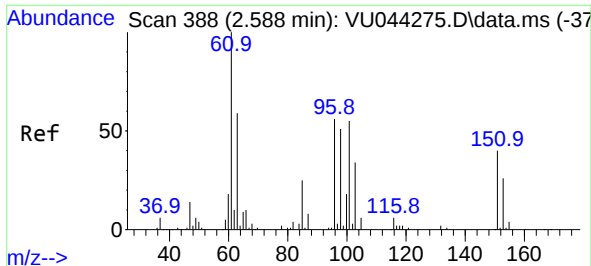
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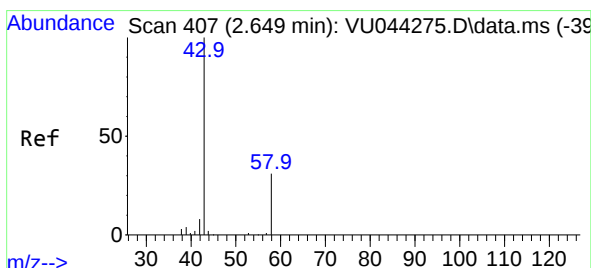
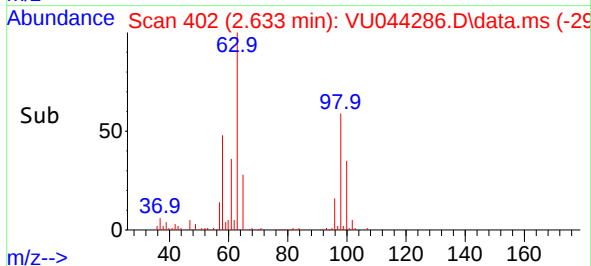
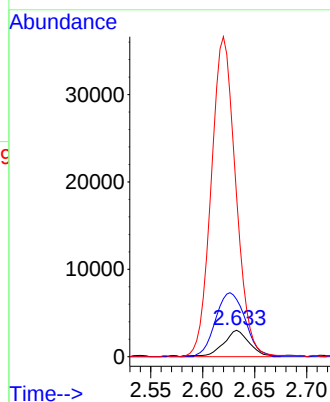
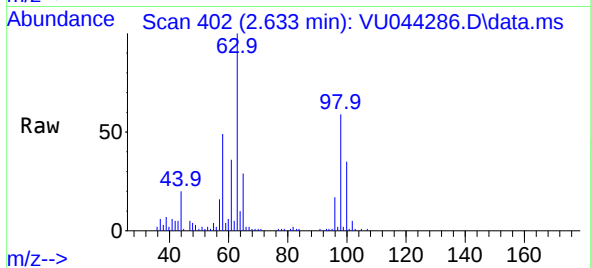
#12  
1,1-Dichloroethene  
Concen: 0.692 ug/L  
RT: 2.633 min Scan# 402  
Delta R.T. 0.045 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13

Tgt Ion: 96 Resp: 5310  
Ion Ratio Lower Upper  
96 100  
61 216.0 128.6 238.8  
63 602.3 84.3 156.5#

Instrument :  
MSVOA\_U  
ClientSampled :  
DBK28

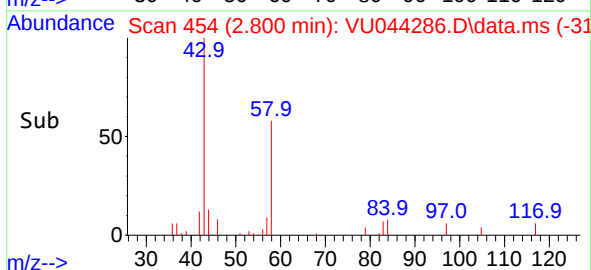
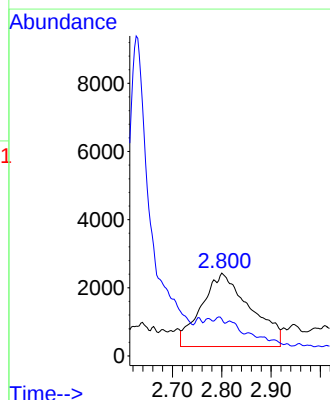
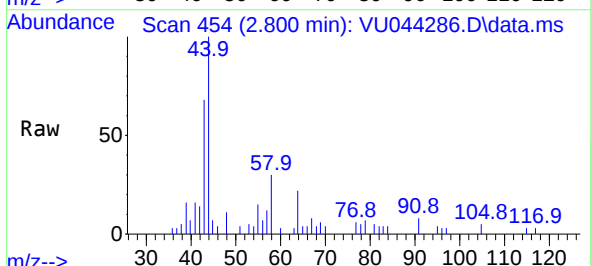
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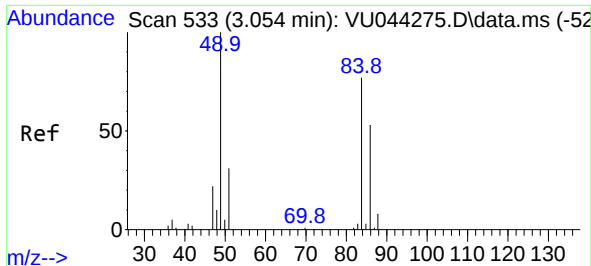
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#13  
Acetone  
Concen: 12.456 ug/L m  
RT: 2.800 min Scan# 454  
Delta R.T. 0.151 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13

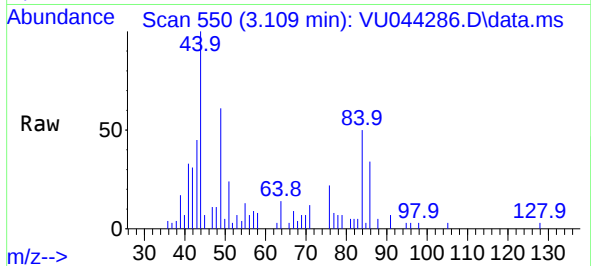
Tgt Ion: 43 Resp: 14766  
Ion Ratio Lower Upper  
43 100  
58 206.7 0.0 53.8#





#16  
Methylene chloride  
Concen: 0.349 ug/L  
RT: 3.109 min Scan# 550  
Delta R.T. 0.054 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13

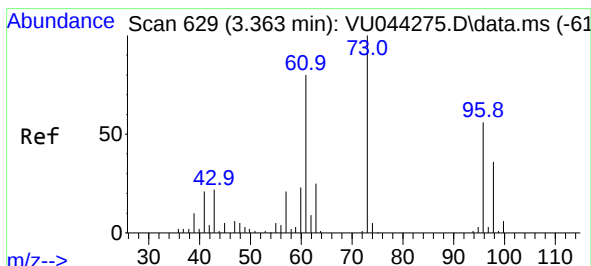
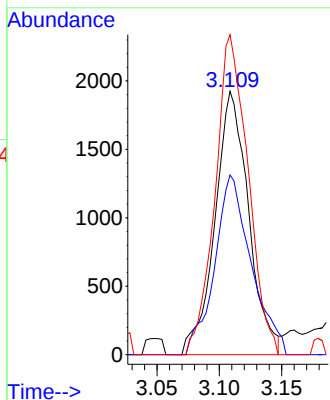
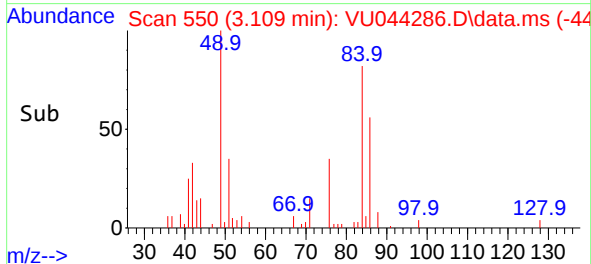
Instrument :  
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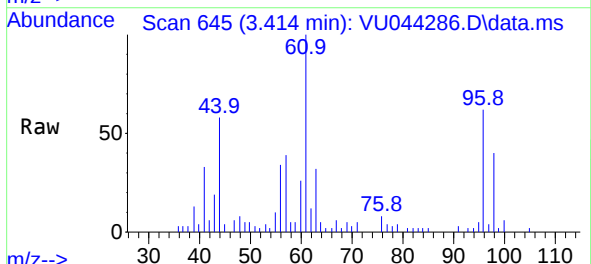
Tgt Ion: 84 Resp: 3613  
Ion Ratio Lower Upper  
84 100  
86 68.2 46.1 85.5  
49 121.5 88.4 164.2

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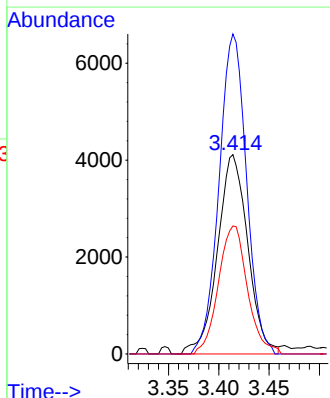
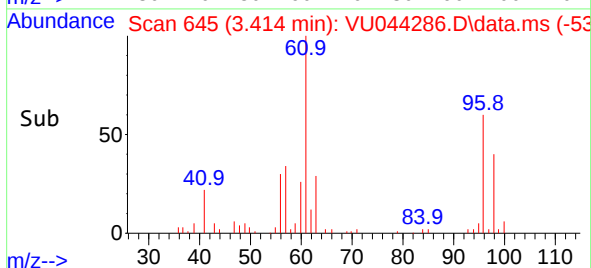
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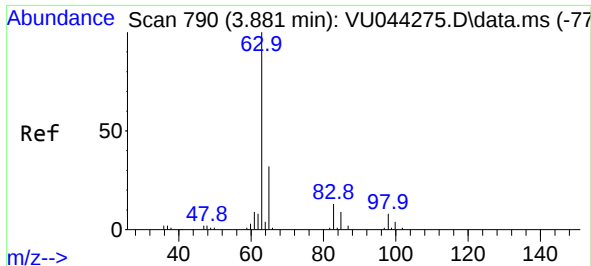


#18  
trans-1,2-Dichloroethene  
Concen: 1.053 ug/L  
RT: 3.414 min Scan# 645  
Delta R.T. 0.051 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13



Tgt Ion: 96 Resp: 8607  
Ion Ratio Lower Upper  
96 100  
61 160.6 100.2 186.2  
98 64.2 44.9 83.5





#19

1,1-Dichloroethane  
Concen: 4.309 ug/L  
RT: 3.932 min Scan# 806  
Delta R.T. 0.051 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13

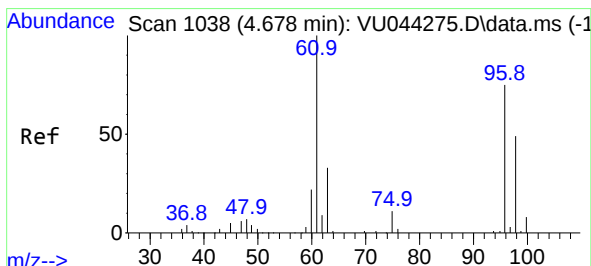
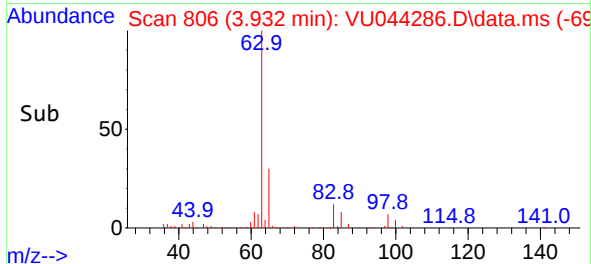
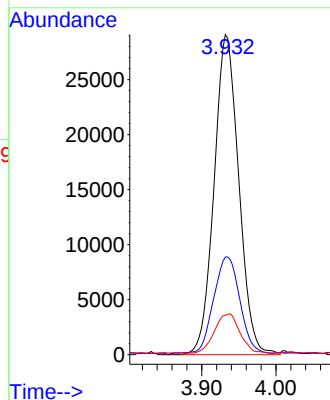
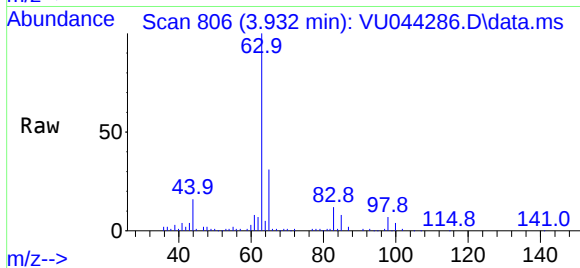
Tgt Ion: 63 Resp: 67166

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 65  | 30.5  | 22.3  | 41.3  |
| 83  | 12.3  | 9.9   | 18.5  |

Instrument :  
MSVOA\_U  
ClientSampled :  
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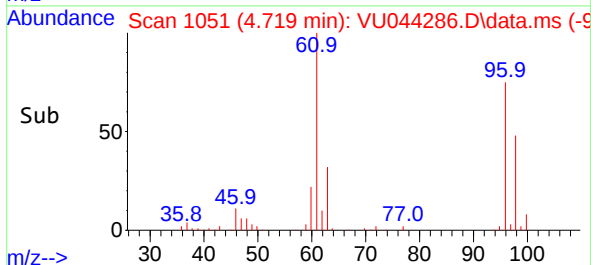
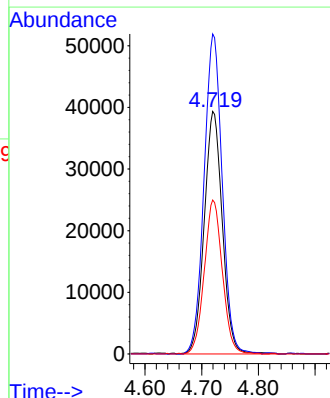
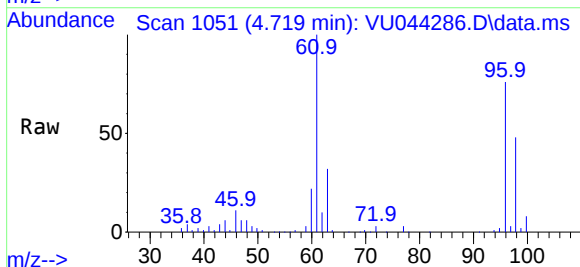


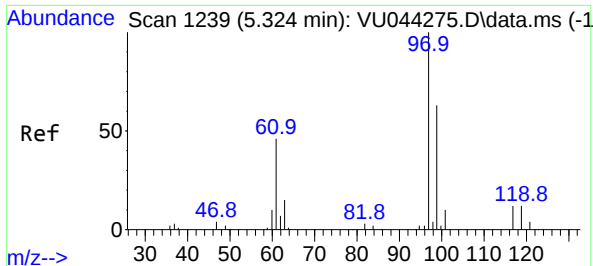
#22

cis-1,2-Dichloroethene  
Concen: 9.770 ug/L  
RT: 4.719 min Scan# 1051  
Delta R.T. 0.041 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13

Tgt Ion: 96 Resp: 87368

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 131.9 | 98.8  | 183.6 |
| 98  | 63.5  | 44.8  | 83.2  |





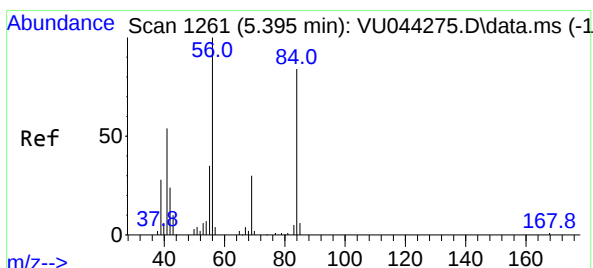
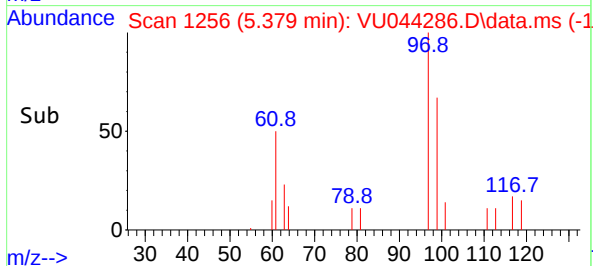
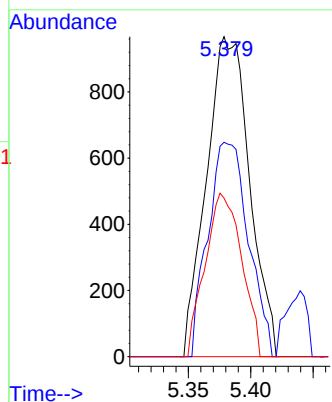
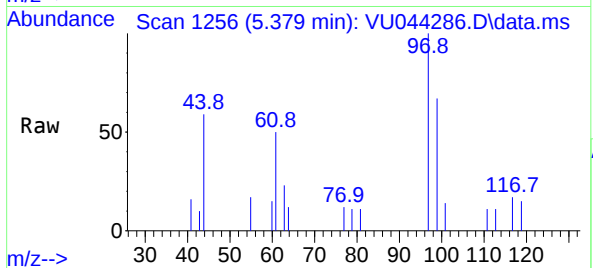
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1,1,1-Trichloroethane  
Concen: 0.165 ug/L  
RT: 5.379 min Scan# 1256  
Delta R.T. 0.054 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13

|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 2326  |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 99 62.9     | 51.4 77.0   |
| 61 43.3     | 37.0 55.6   |

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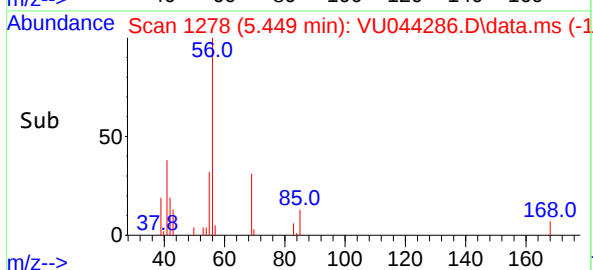
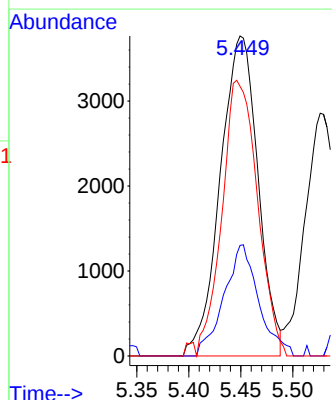
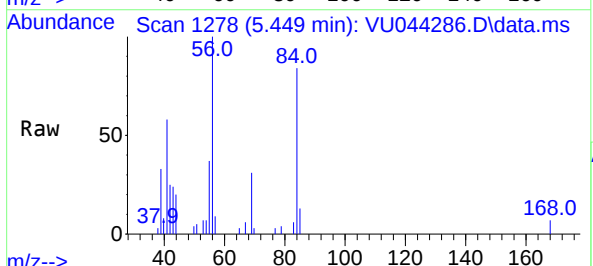
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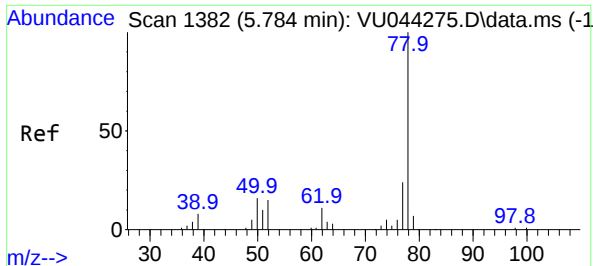
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#30  
Cyclohexane  
Concen: 0.652 ug/L  
RT: 5.449 min Scan# 1278  
Delta R.T. 0.054 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13

|             |             |
|-------------|-------------|
| Tgt Ion: 56 | Resp: 9508  |
| Ion Ratio   | Lower Upper |
| 56 100      |             |
| 69 32.0     | 24.8 37.2   |
| 84 81.3     | 67.8 101.8  |





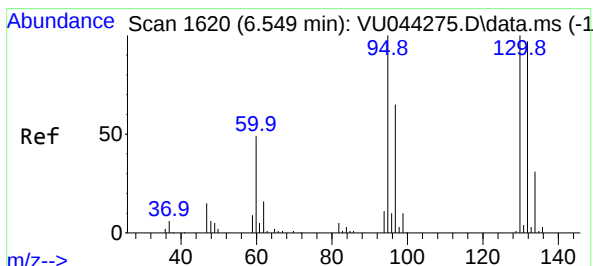
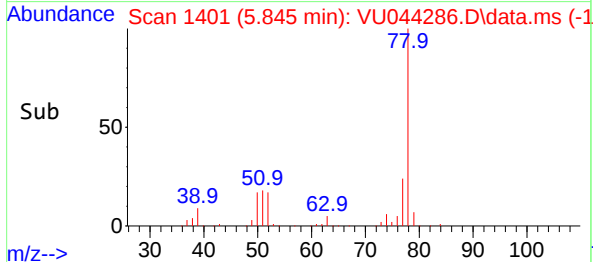
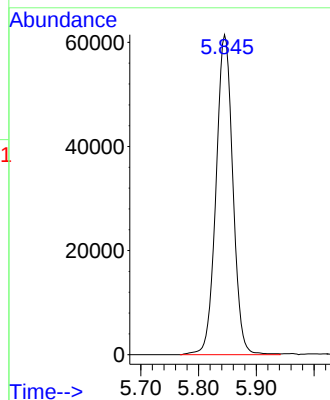
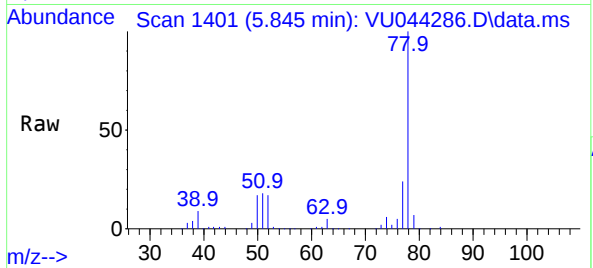
Benzene  
Concen: 3.781 ug/L  
RT: 5.845 min Scan# 1401  
Delta R.T. 0.061 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13

Tgt Ion: 78 Resp: 124364

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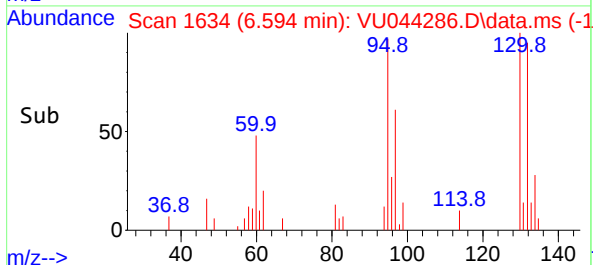
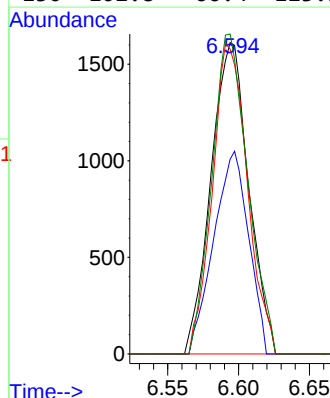
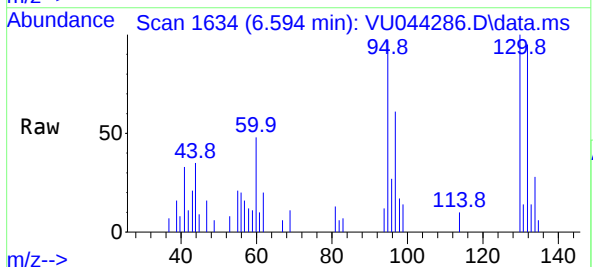
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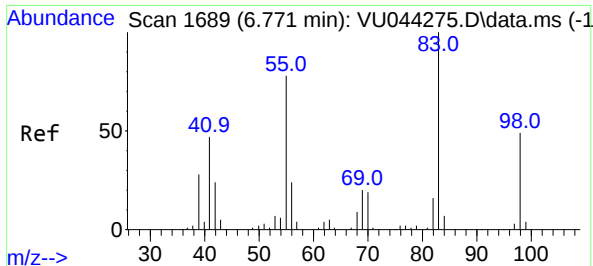


Trichloroethene  
Concen: 0.335 ug/L  
RT: 6.594 min Scan# 1634  
Delta R.T. 0.045 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13

Tgt Ion: 95 Resp: 2986

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 62.5  | 44.3  | 82.3  |
| 132 | 98.0  | 64.3  | 119.5 |
| 130 | 102.8 | 66.4  | 123.2 |





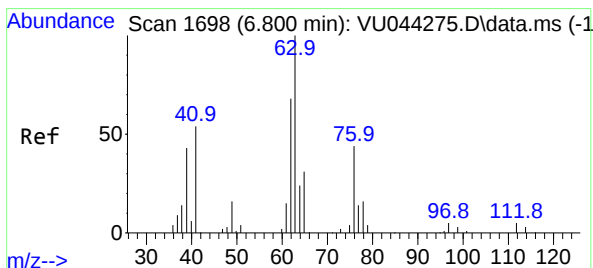
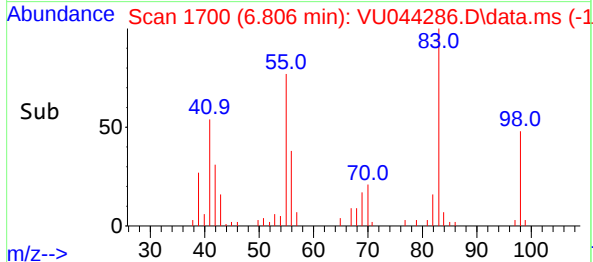
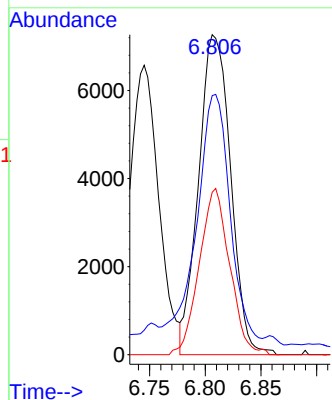
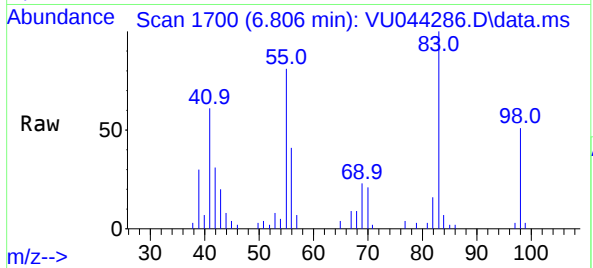
#35  
Methylcyclohexane  
Concen: 0.990 ug/L  
RT: 6.806 min Scan# 1700  
Delta R.T. 0.035 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 14555 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 76.7  | 63.4  | 95.0  |
| 98       | 49.3  | 39.4  | 59.0  |

Instrument :  
MSVOA\_U  
ClientSampled :  
DBK28

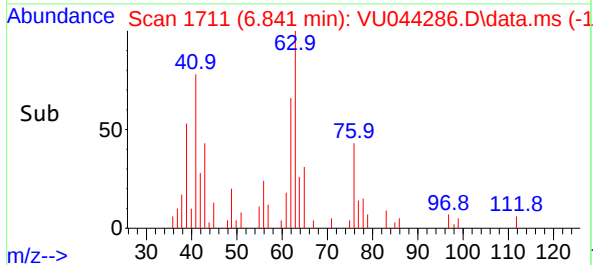
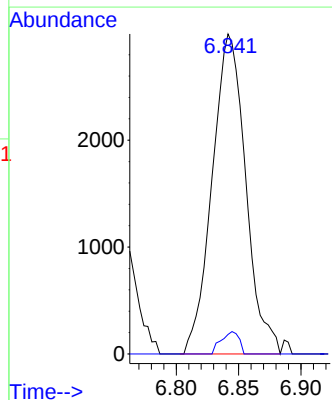
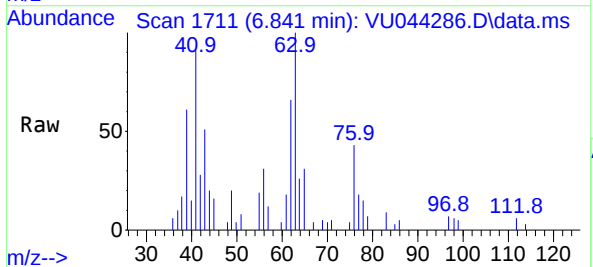
Manual Integrations  
APPROVED

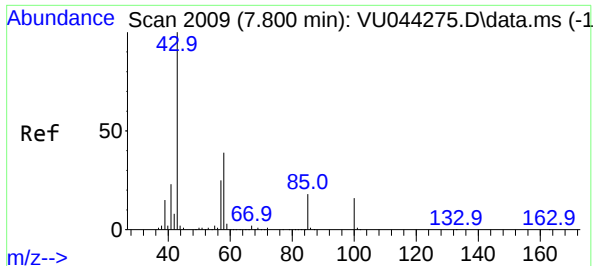
MMDadoda  
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#37  
1,2-Dichloropropane  
Concen: 0.646 ug/L  
RT: 6.841 min Scan# 1711  
Delta R.T. 0.041 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13

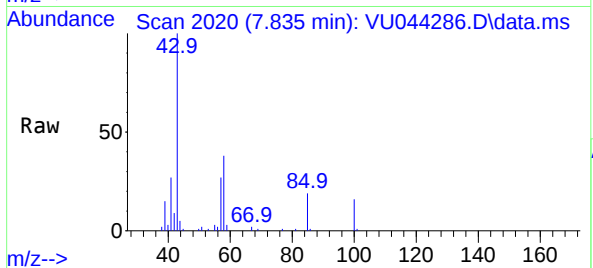
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 5614  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 112      | 3.7   | 3.5   | 5.3   |





#40  
4-Methyl-2-pentanone  
Concen: 3.410 ug/L  
RT: 7.835 min Scan# 2020  
Delta R.T. 0.035 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13

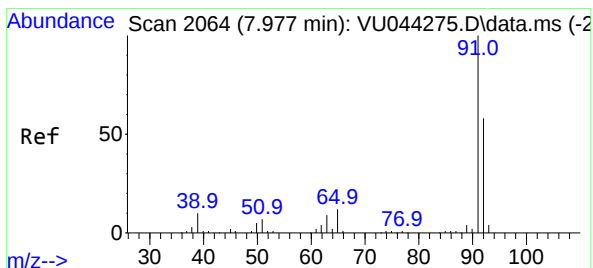
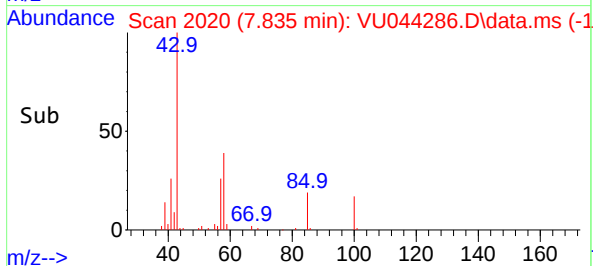
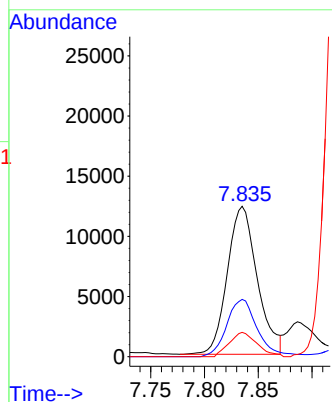
Instrument :  
MSVOA\_U  
ClientSampled :  
DBK28



Tgt Ion: 43 Resp: 23807  
Ion Ratio Lower Upper  
43 100  
58 39.8 31.2 46.8  
100 15.3 12.3 18.5

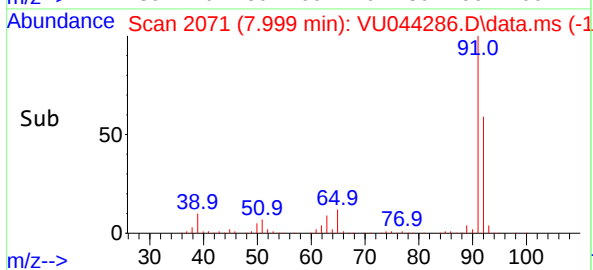
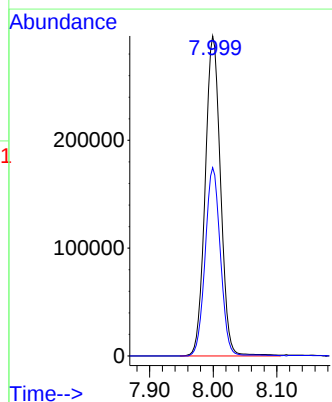
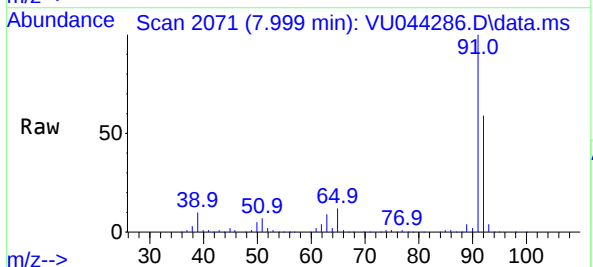
Manual Integrations  
APPROVED

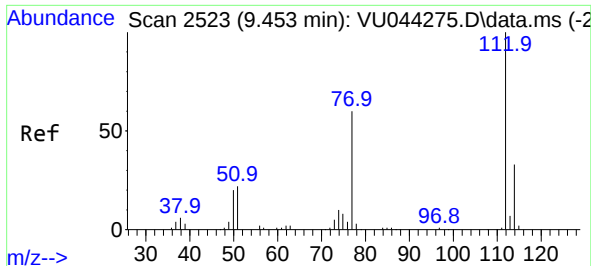
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#42  
Toluene  
Concen: 13.742 ug/L  
RT: 7.999 min Scan# 2071  
Delta R.T. 0.022 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13

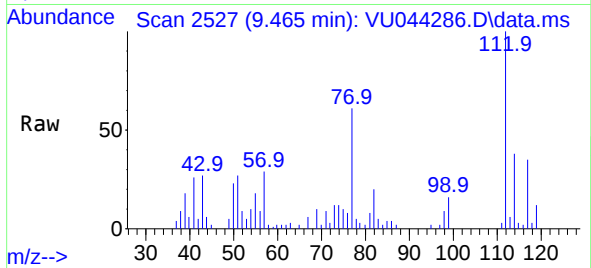
Tgt Ion: 91 Resp: 497818  
Ion Ratio Lower Upper  
91 100  
92 58.9 41.2 76.6





#51  
Chlorobenzene  
Concen: 0.526 ug/L  
RT: 9.465 min Scan# 2527  
Delta R.T. 0.013 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13

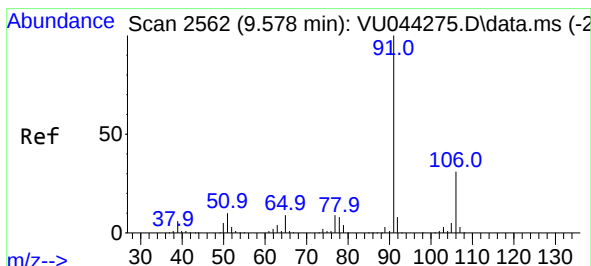
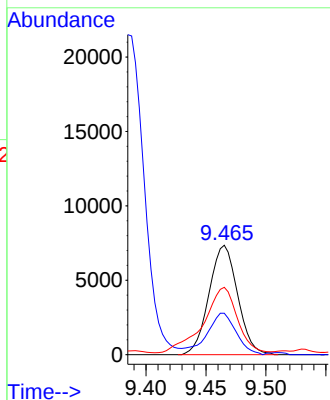
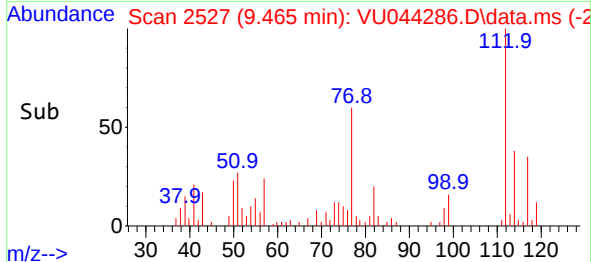
Instrument :  
MSVOA\_U  
ClientSampled :  
DBK28



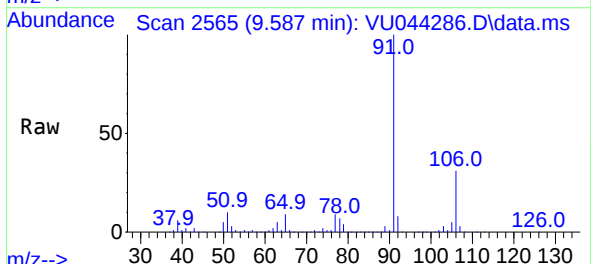
Tgt Ion: 112 Resp: 12212  
Ion Ratio Lower Upper  
112 100  
114 37.9 22.0 41.0  
77 61.5 48.9 73.3

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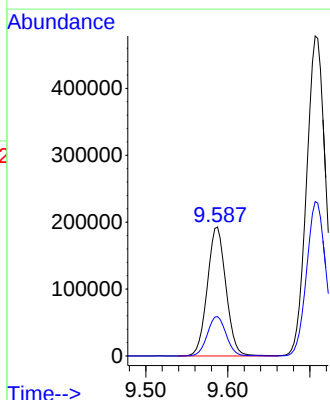
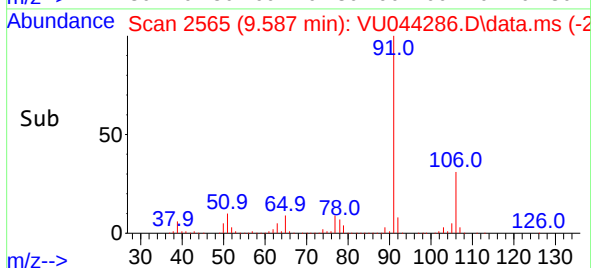
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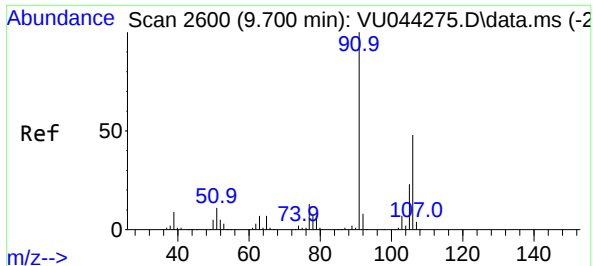


#52  
Ethylbenzene  
Concen: 7.295 ug/L  
RT: 9.587 min Scan# 2565  
Delta R.T. 0.009 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13



Tgt Ion: 91 Resp: 305062  
Ion Ratio Lower Upper  
91 100  
106 30.5 21.6 40.2





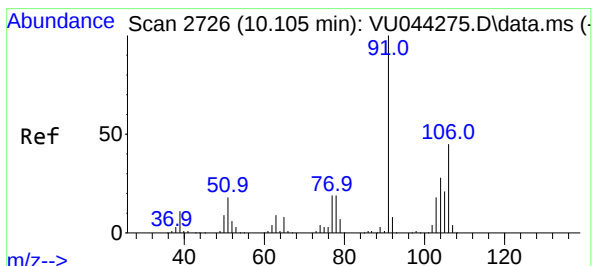
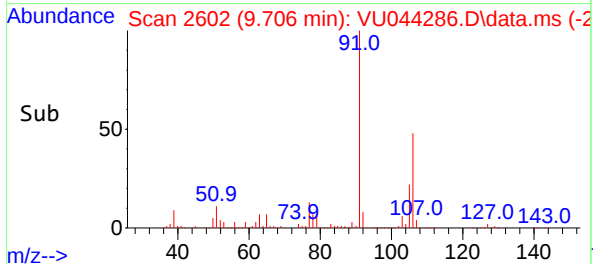
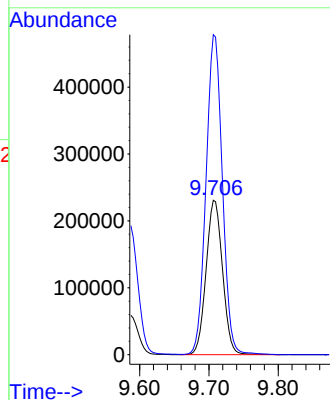
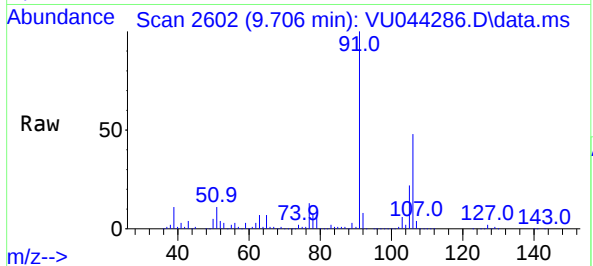
#53  
m,p-Xylene  
Concen: 23.960 ug/L  
RT: 9.706 min Scan# 2602  
Delta R.T. 0.006 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13

Tgt Ion:106 Resp: 379416  
Ion Ratio Lower Upper  
106 100  
91 207.2 144.8 269.0

Instrument :  
MSVOA\_U  
ClientSampled :  
DBK28

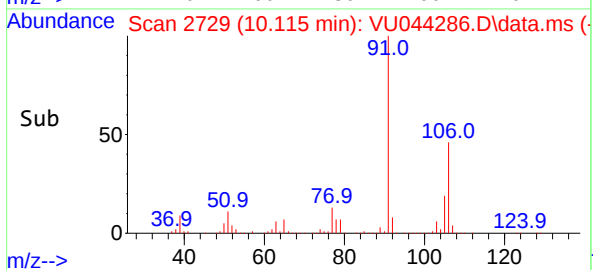
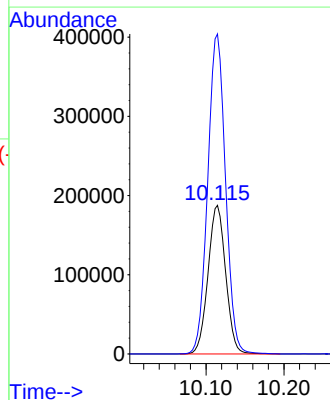
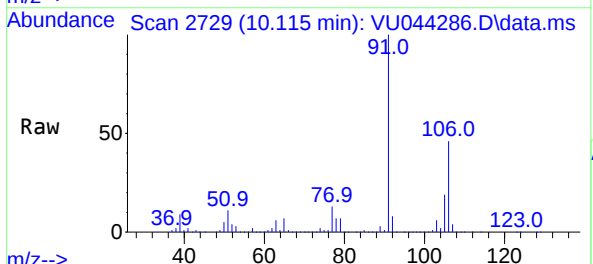
Manual Integrations  
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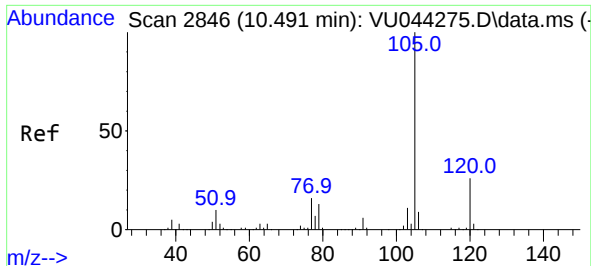
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#54  
o-Xylene  
Concen: 19.171 ug/L  
RT: 10.115 min Scan# 2729  
Delta R.T. 0.009 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13

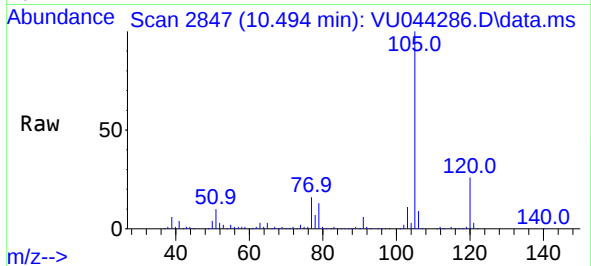
Tgt Ion:106 Resp: 295096  
Ion Ratio Lower Upper  
106 100  
91 215.2 154.8 287.4





#60  
Isopropylbenzene  
Concen: 3.577 ug/L  
RT: 10.494 min Scan# 2847  
Delta R.T. 0.003 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13

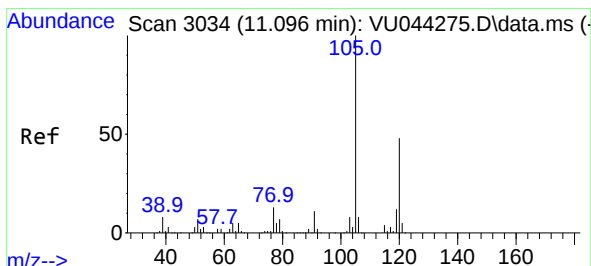
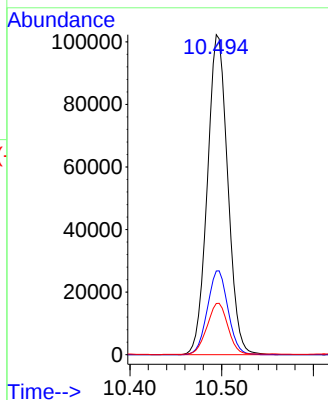
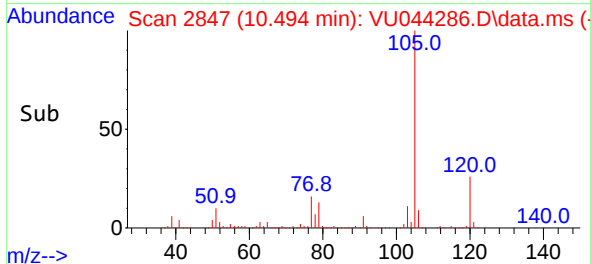
Instrument :  
MSVOA\_U  
ClientSampled :  
DBK28



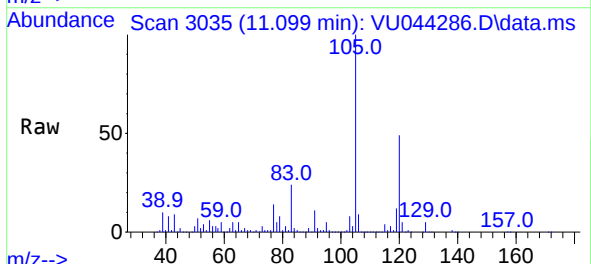
Tgt Ion:105 Resp: 158072  
Ion Ratio Lower Upper  
105 100  
120 0.0 20.7 31.1#  
77 0.0 12.9 19.3#

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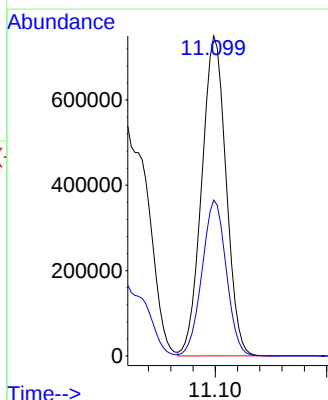
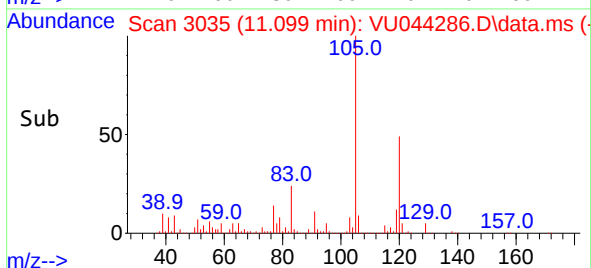
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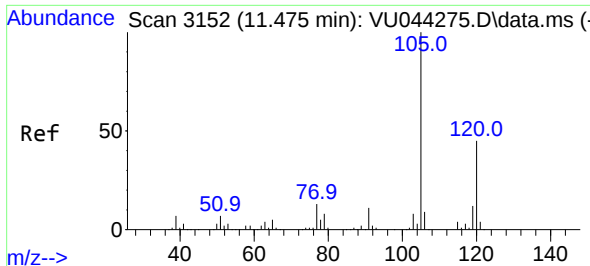


#62  
1,3,5-Trimethylbenzene  
Concen: 29.481 ug/L  
RT: 11.099 min Scan# 3035  
Delta R.T. 0.003 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13



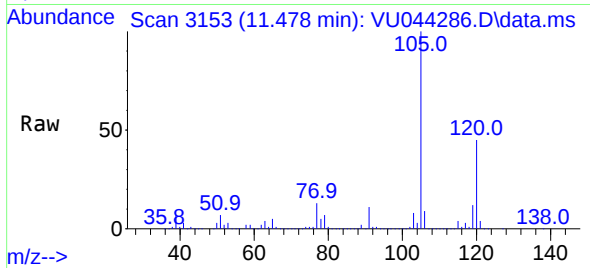
Tgt Ion:105 Resp: 1135255  
Ion Ratio Lower Upper  
105 100  
120 48.6 38.0 57.0





#63  
1,2,4-Trimethylbenzene  
Concen: 55.863 ug/L  
RT: 11.478 min Scan# 3153  
Delta R.T. 0.003 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13

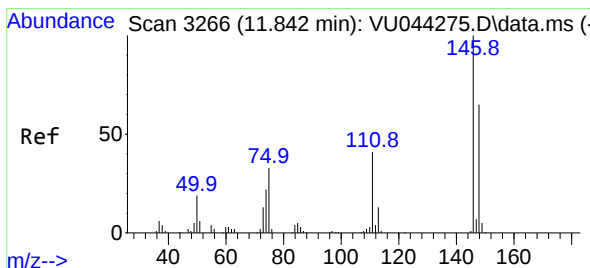
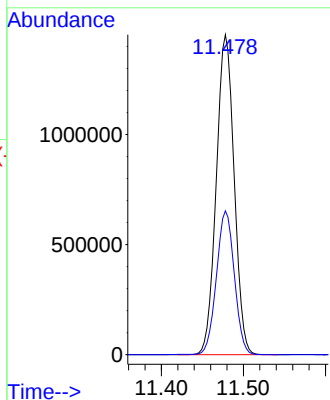
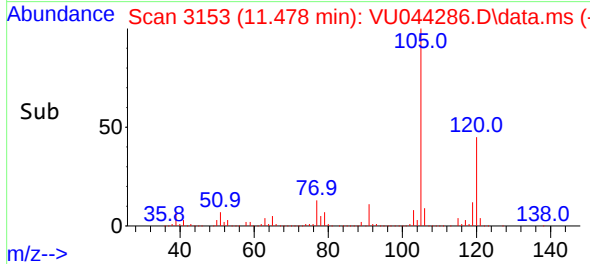
Instrument :  
MSVOA\_U  
ClientSampled :  
DBK28



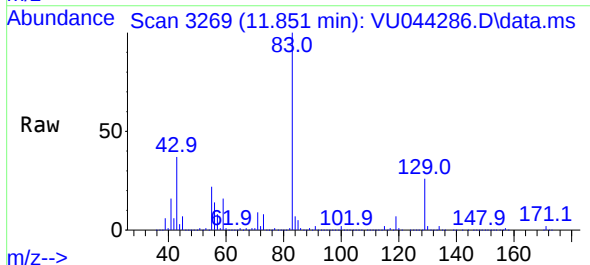
Tgt Ion:105 Resp: 2200260  
Ion Ratio Lower Upper  
105 100  
120 45.1 35.6 53.4

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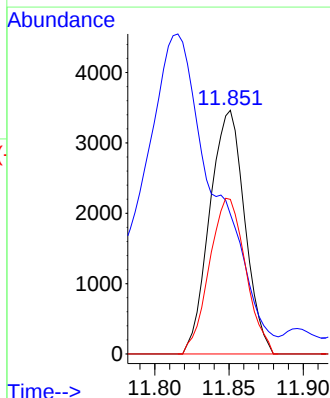
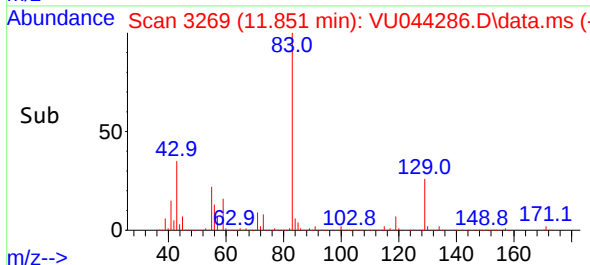
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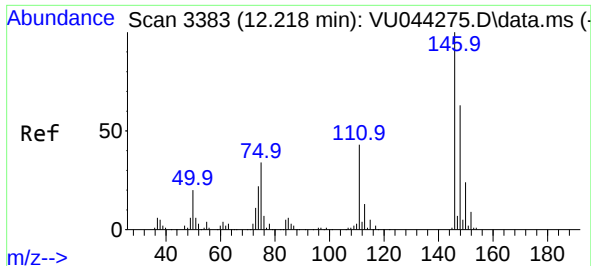


#65  
1,4-Dichlorobenzene  
Concen: 0.282 ug/L  
RT: 11.851 min Scan# 3269  
Delta R.T. 0.009 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13

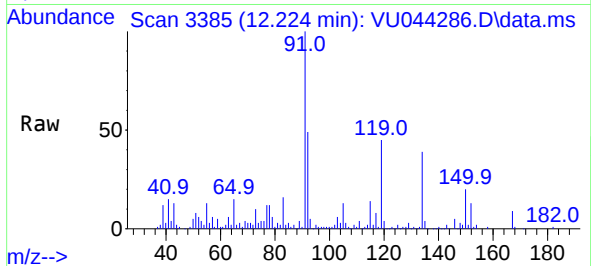


Tgt Ion:146 Resp: 5682  
Ion Ratio Lower Upper  
146 100  
111 57.3 28.2 52.4#  
148 63.4 45.1 83.9

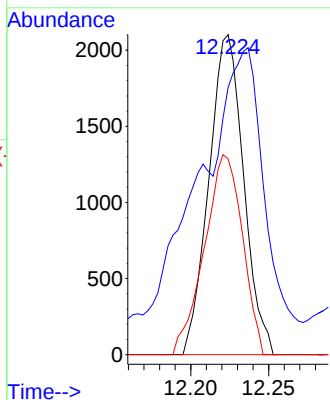
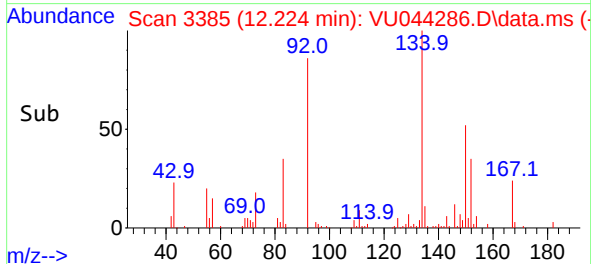




#67  
1,2-Dichlorobenzene  
Concen: 0.174 ug/L  
RT: 12.224 min Scan# 3385  
Delta R.T. 0.006 min  
Lab File: VU044286.D  
Acq: 01 Jul 2021 15:13



Tgt Ion:146 Resp: 3262  
Ion Ratio Lower Upper  
146 100  
111 83.5 35.0 52.6#  
148 61.2 51.2 76.8



Instrument :  
MSVOA\_U  
ClientSampled :  
DBK28

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