

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU040922\  
 Data File : VU047886.D  
 Acq On : 08 Apr 2022 22:47  
 Operator : SY/MD  
 Sample : N2343-16  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0J69

Quant Time: Apr 09 02:08:49 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM032422WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Apr 09 01:58:44 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) 1,4-Difluorobenzene        | 6.253          | 114  | 332628     | 50.000  | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.436          | 117  | 370864     | 50.000  | ug/L   | 0.02     |
| 58) 1,4-Dichlorobenzene-d4    | 11.822         | 152  | 246343     | 50.000  | ug/L   | # 0.00   |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 4) Vinyl Chloride-d3          | 1.600          | 65   | 108118     | 44.823  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 89.640% |        |          |
| 7) Chloroethane-d5            | 1.916          | 69   | 94242      | 49.550  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 99.100% |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.568          | 63   | 142992     | 32.401  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 64.800% |        |          |
| 21) 2-Butanone-d5             | 4.620          | 46   | 178996     | 86.457  | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 86.460% |        |          |
| 24) Chloroform-d              | 5.067          | 84   | 211475     | 47.915  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 95.840% |        |          |
| 26) 1,2-Dichloroethane-d4     | 5.713          | 65   | 132780     | 49.053  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 98.100% |        |          |
| 32) Benzene-d6                | 5.742          | 84   | 428263     | 45.892  | ug/L   | 0.01     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 91.780% |        |          |
| 36) 1,2-Dichloropropane-d6    | 6.693          | 67   | 133815     | 46.692  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 93.380% |        |          |
| 41) Toluene-d8                | 7.899          | 98   | 375429     | 41.292  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 82.580% |        |          |
| 43) trans-1,3-Dichloroprop... | 8.179          | 79   | 57196      | 39.393  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 78.780% |        |          |
| 47) 2-Hexanone-d5             | 8.636          | 63   | 137869     | 82.176  | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 82.180% |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758         | 84   | 222318     | 45.201  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 90.400% |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.201         | 152  | 207430     | 47.329  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 94.660% |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         |        | Qvalue   |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.565          | 101  | 1382       | 0.564   | ug/L # | 18       |
| 12) 1,1-Dichloroethene        | 2.571          | 96   | 1518       | 0.665   | ug/L # | 1        |
| 13) Acetone                   | 2.626          | 43   | 6290       | 3.265   | ug/L   | 87       |
| 14) Carbon disulfide          | 2.797          | 76   | 7754       | 1.075   | ug/L # | 95       |
| 25) Chloroform                | 5.089          | 83   | 211626     | 46.311  | ug/L   | 98       |
| 27) 1,2-Dichloroethane        | 5.806          | 62   | 1494361    | 423.277 | ug/L # | 75       |
| 29) Cyclohexane               | 5.388          | 56   | 8246       | 2.191   | ug/L   | 96       |
| 33) Benzene                   | 5.925          | 78   | 508910     | 47.408  | ug/L   | 100      |
| 42) Toluene                   | 7.973          | 91   | 13688      | 1.162   | ug/L   | 99       |
| 49) Dibromochloromethane      | 8.555          | 129  | 2389       | 0.713   | ug/L # | 11       |
| 64) 1,3-Dichlorobenzene       | 11.748         | 146  | 1116352    | 150.859 | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 11.748         | 146  | 1116352    | 145.645 | ug/L   | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.970         | 75   | 3926       | 2.639   | ug/L # | 1        |
| 69) 1,3,5-Trichlorobenzene    | 13.841         | 180  | 1242659    | 206.769 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.841         | 180  | 1242659    | 236.065 | ug/L   | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.333         | 180  | 72842      | 13.803  | ug/L   | 99       |
| -----                         |                |      |            |         |        |          |

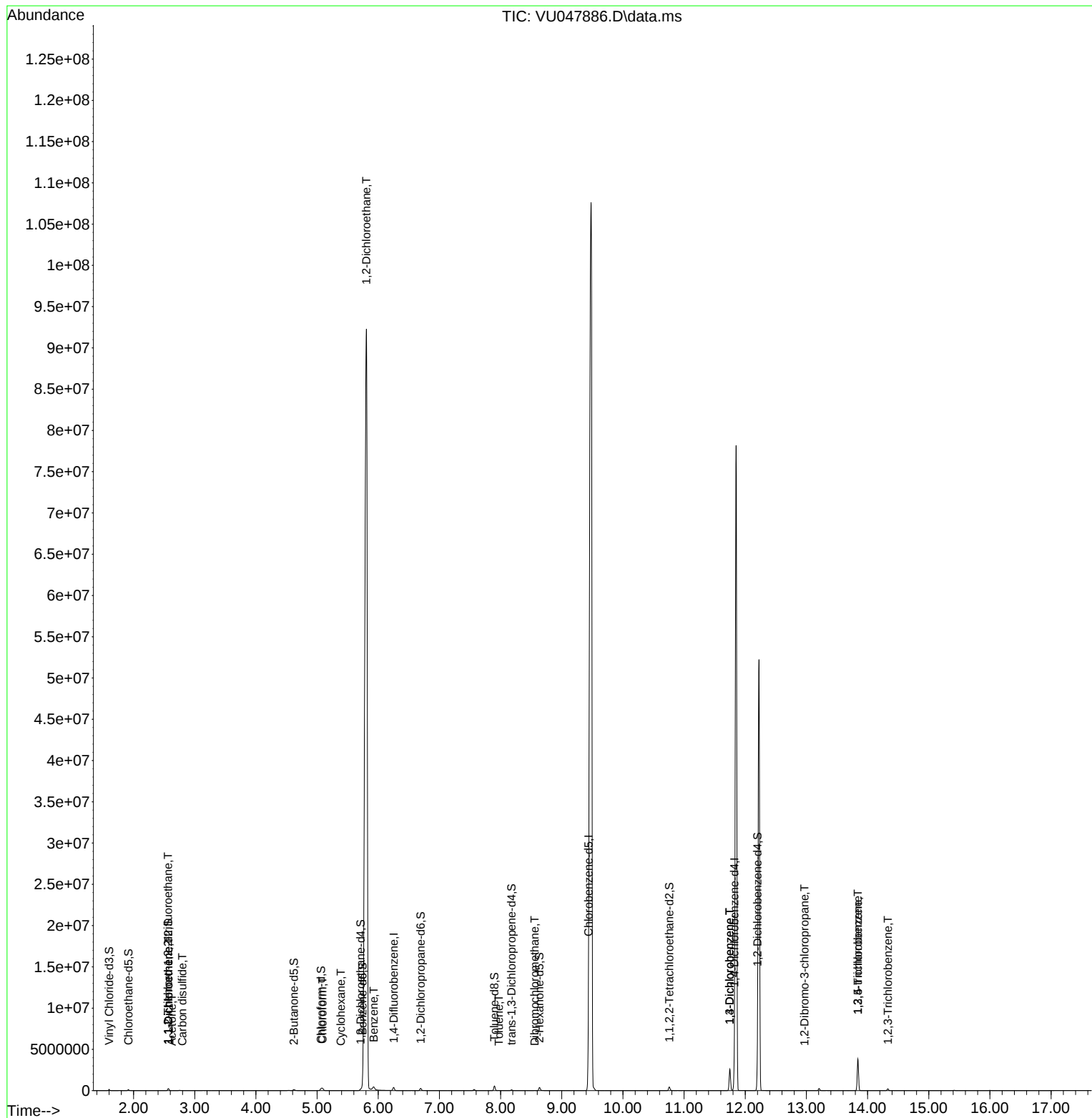
(#) = qualifier out of range (m) = manual integration (+) = signals summed

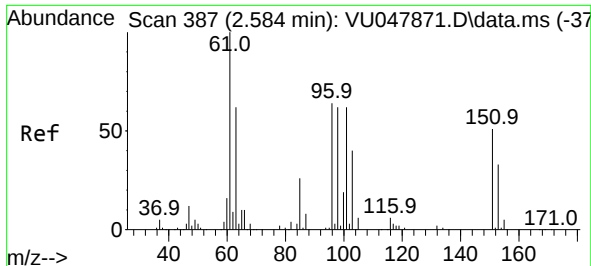
**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
C0J69

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU040922\  
Data File : VU047886.D  
Acq On : 08 Apr 2022 22:47  
Operator : SY/MD  
Sample : N2343-16  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0J69

Quant Time: Apr 09 02:08:49 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM032422WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Apr 09 01:58:44 2022  
Response via : Initial Calibration

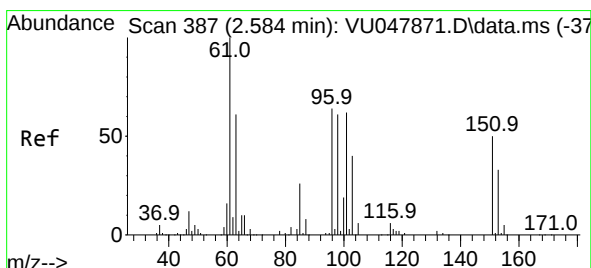
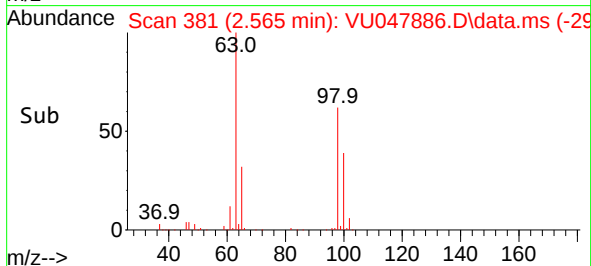
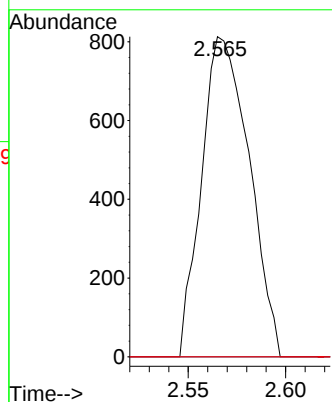
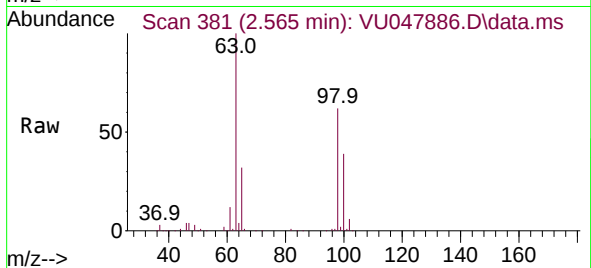




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.564 ug/L  
 RT: 2.565 min Scan# 31  
 Delta R.T. -0.019 min  
 Lab File: VU047886.D  
 Acq: 08 Apr 2022 22:47

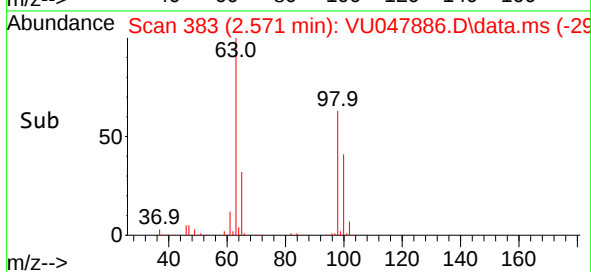
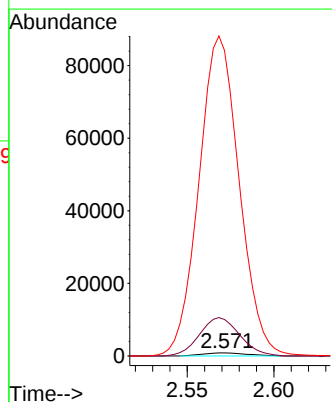
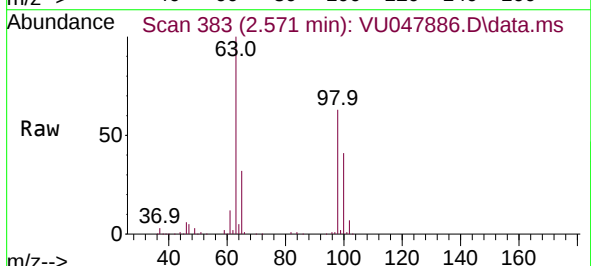
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0J69

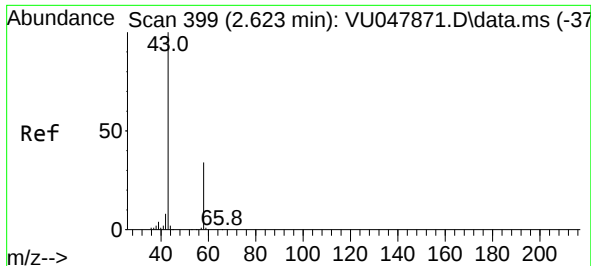
Tgt Ion:101 Resp: 1382  
 Ion Ratio Lower Upper  
 101 100  
 85 0.0 32.8 49.2#  
 151 0.0 63.0 94.6#



#12  
 1,1-Dichloroethene  
 Concen: 0.665 ug/L  
 RT: 2.571 min Scan# 383  
 Delta R.T. -0.013 min  
 Lab File: VU047886.D  
 Acq: 08 Apr 2022 22:47

Tgt Ion: 96 Resp: 1518  
 Ion Ratio Lower Upper  
 96 100  
 61 1214.7 113.1 210.1#  
 63 10164.3 94.8 176.0#





#13

Acetone

Concen: 3.265 ug/L

RT: 2.626 min Scan# 400

Delta R.T. 0.003 min

Lab File: VU047886.D

Acq: 08 Apr 2022 22:47

Instrument :

MSVOA\_U

ClientSampleId :

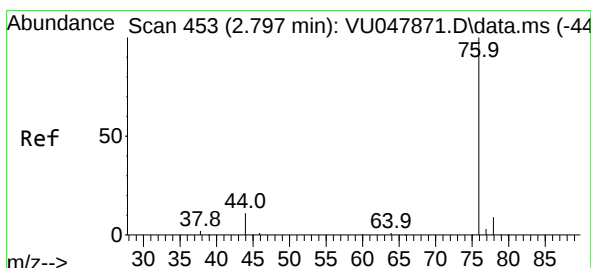
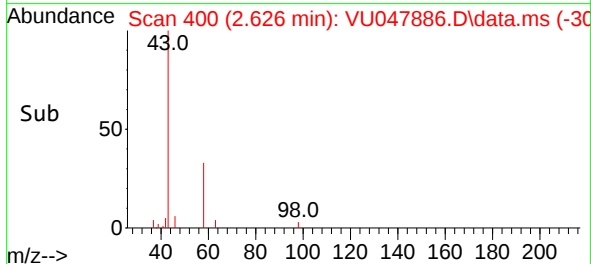
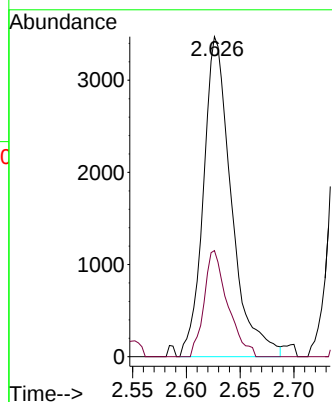
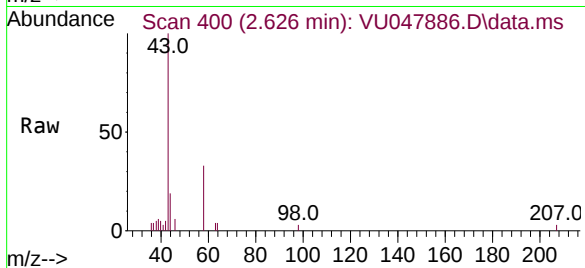
C0J69

Tgt Ion: 43 Resp: 6290

Ion Ratio Lower Upper

43 100

58 27.6 0.0 70.0



#14

Carbon disulfide

Concen: 1.075 ug/L

RT: 2.797 min Scan# 453

Delta R.T. -0.000 min

Lab File: VU047886.D

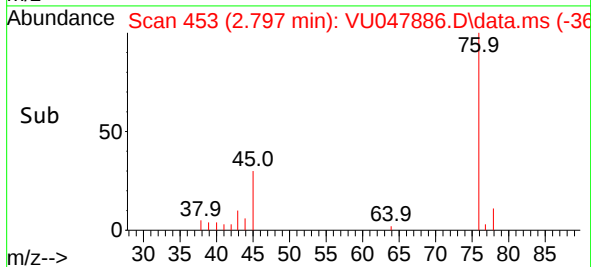
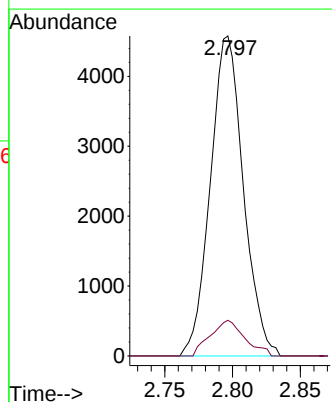
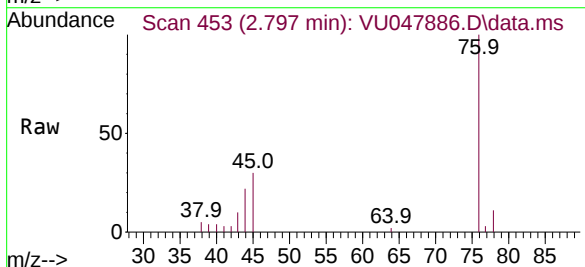
Acq: 08 Apr 2022 22:47

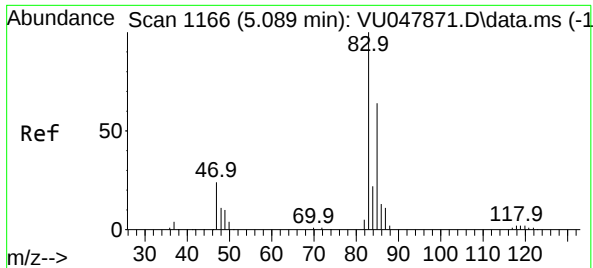
Tgt Ion: 76 Resp: 7754

Ion Ratio Lower Upper

76 100

78 11.1 7.4 11.0#





#25

Chloroform

Concen: 46.311 ug/L

RT: 5.089 min Scan# 1166

Delta R.T. -0.000 min

Lab File: VU047886.D

Acq: 08 Apr 2022 22:47

Instrument :

MSVOA\_U

ClientSampleId :

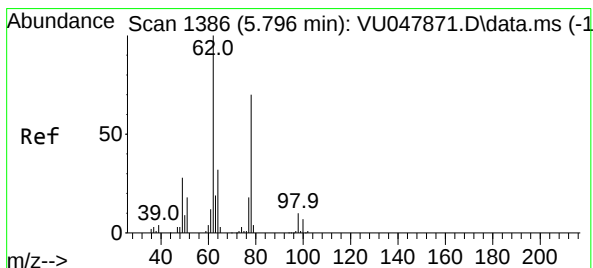
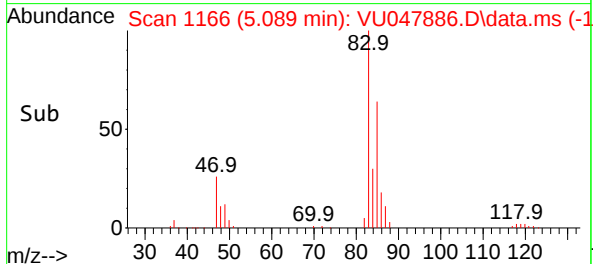
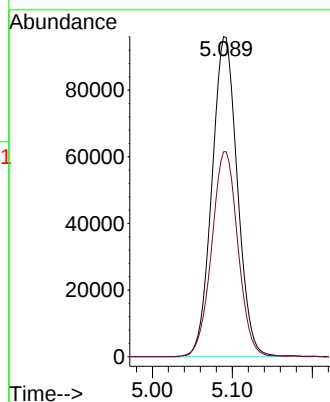
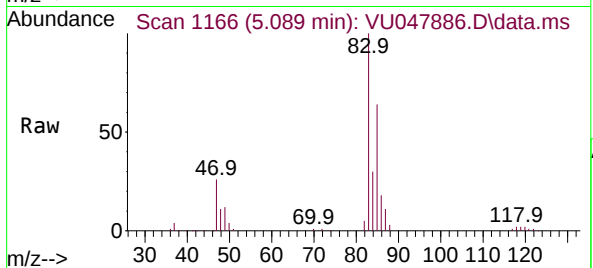
C0J69

Tgt Ion: 83 Resp: 211626

Ion Ratio Lower Upper

83 100

85 64.0 46.2 85.8



#27

1,2-Dichloroethane

Concen: 423.277 ug/L

RT: 5.806 min Scan# 1389

Delta R.T. 0.010 min

Lab File: VU047886.D

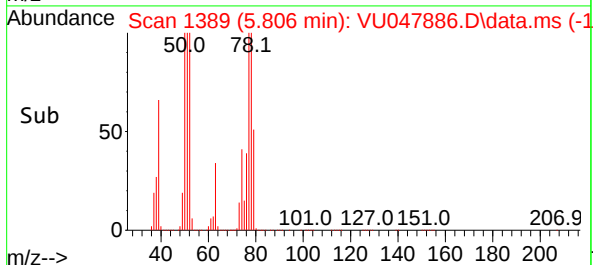
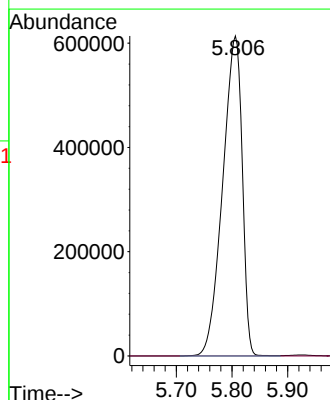
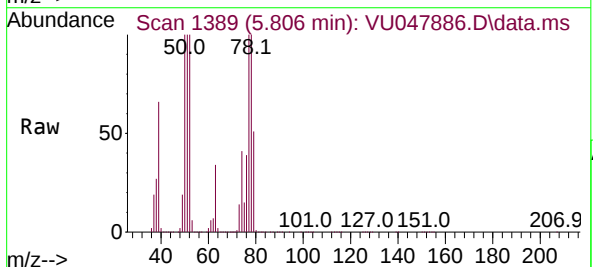
Acq: 08 Apr 2022 22:47

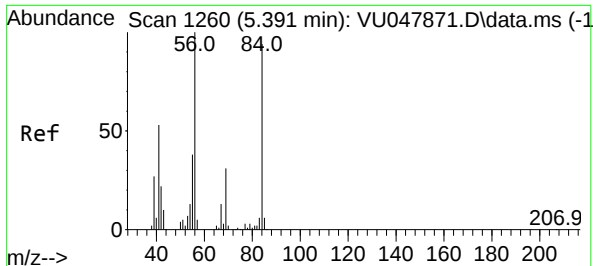
Tgt Ion: 62 Resp: 1494361

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.0#





#29

Cyclohexane

Concen: 2.191 ug/L

RT: 5.388 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU047886.D

Acq: 08 Apr 2022 22:47

Instrument :

MSVOA\_U

ClientSampleId :

C0J69

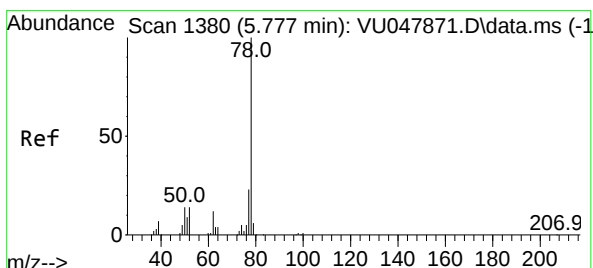
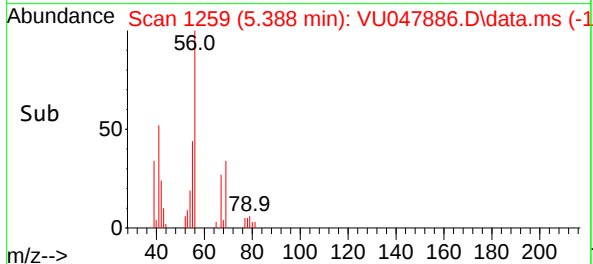
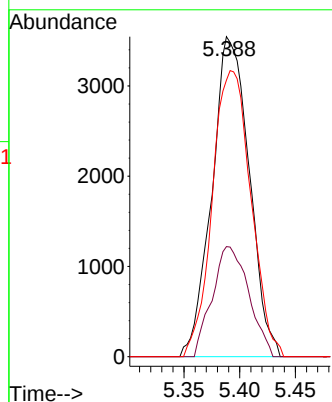
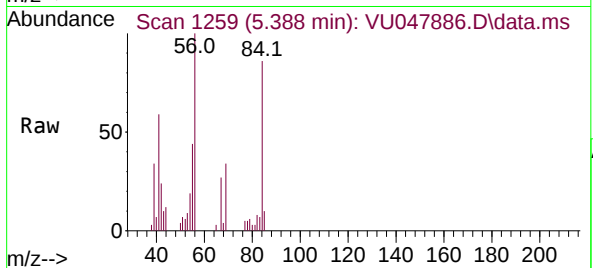
Tgt Ion: 56 Resp: 8246

Ion Ratio Lower Upper

56 100

69 33.7 25.4 38.2

84 92.6 77.0 115.6



#33

Benzene

Concen: 47.408 ug/L

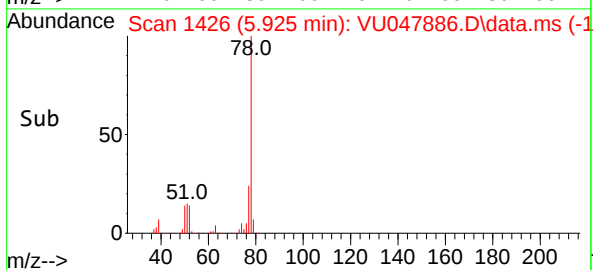
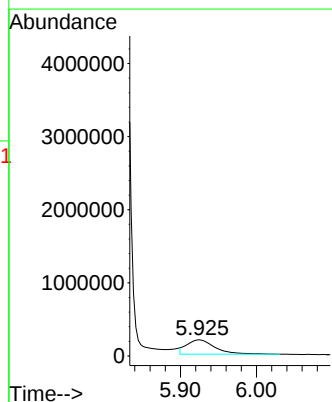
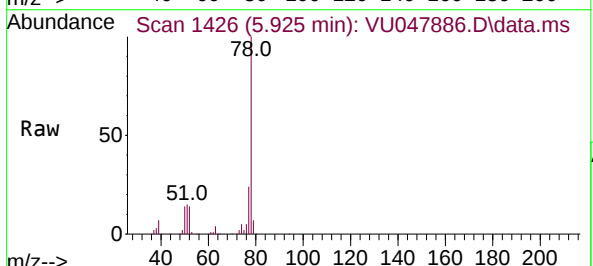
RT: 5.925 min Scan# 1426

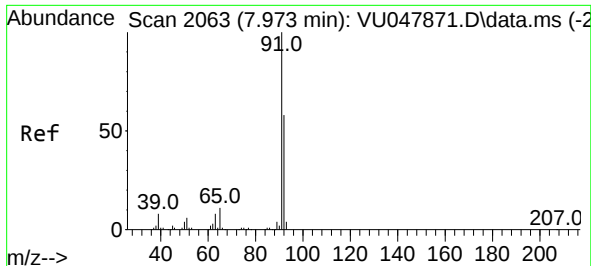
Delta R.T. 0.148 min

Lab File: VU047886.D

Acq: 08 Apr 2022 22:47

Tgt Ion: 78 Resp: 508910





#42

Toluene

Concen: 1.162 ug/L

RT: 7.973 min Scan# 2063

Delta R.T. -0.000 min

Lab File: VU047886.D

Acq: 08 Apr 2022 22:47

Instrument :

MSVOA\_U

ClientSampleId :

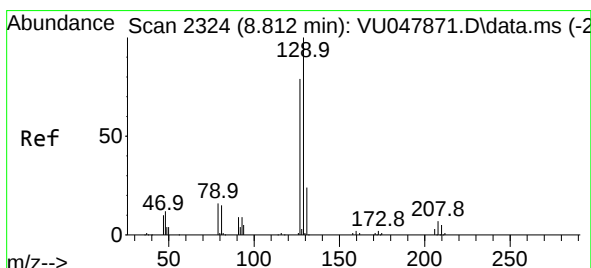
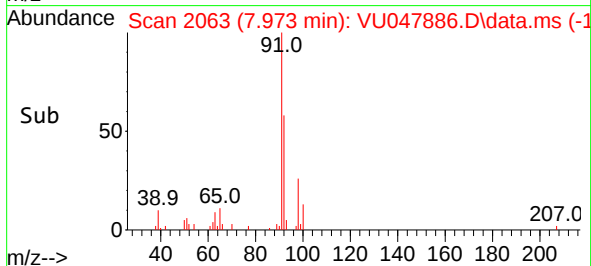
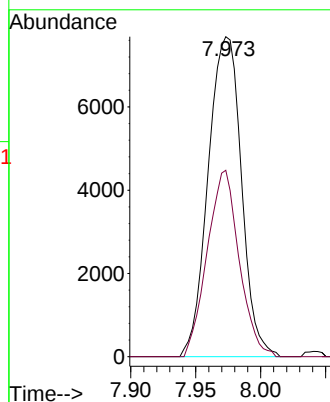
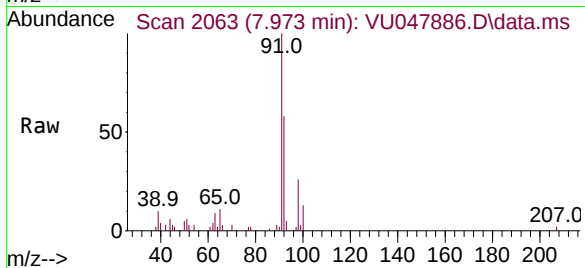
C0J69

Tgt Ion: 91 Resp: 13688

Ion Ratio Lower Upper

91 100

92 58.2 40.4 75.0



#49

Dibromochloromethane

Concen: 0.713 ug/L

RT: 8.555 min Scan# 2244

Delta R.T. -0.257 min

Lab File: VU047886.D

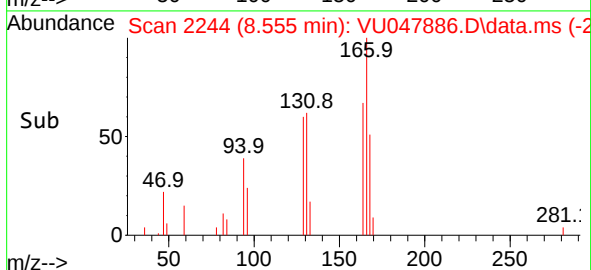
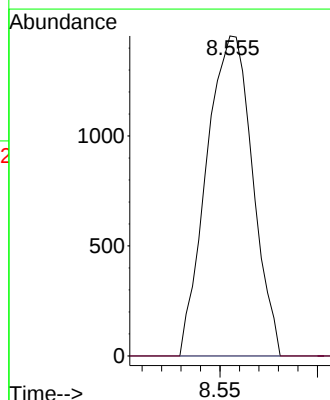
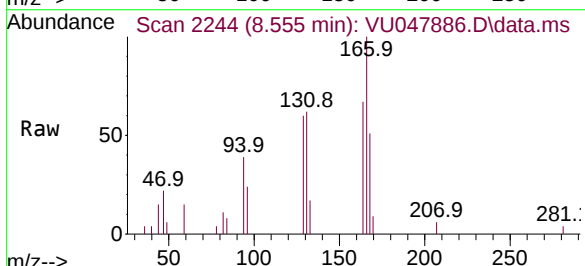
Acq: 08 Apr 2022 22:47

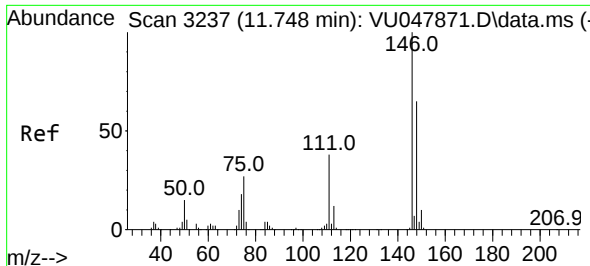
Tgt Ion: 129 Resp: 2389

Ion Ratio Lower Upper

129 100

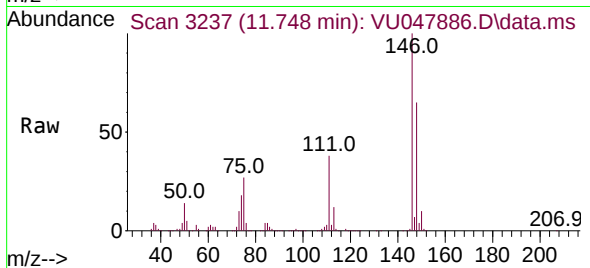
127 0.0 54.2 100.6#



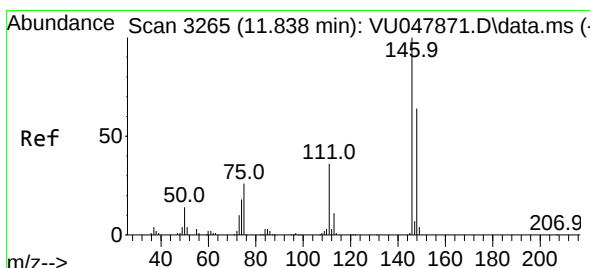
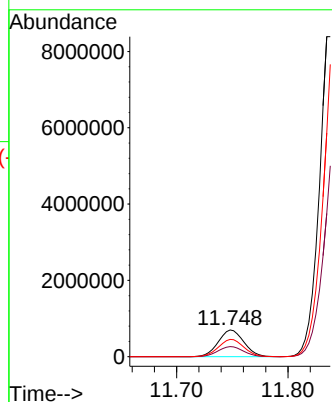
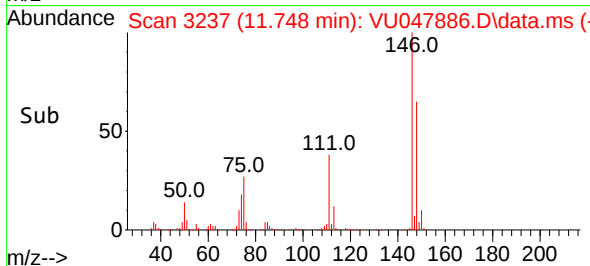


#64  
1,3-Dichlorobenzene  
Concen: 150.859 ug/L  
RT: 11.748 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VU047886.D  
Acq: 08 Apr 2022 22:47

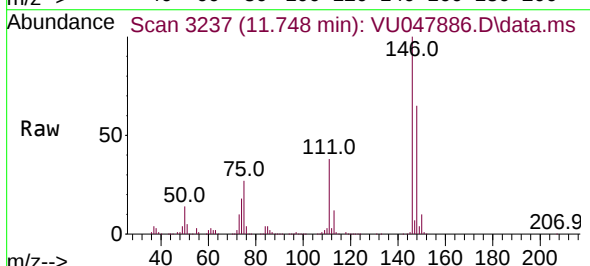
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0J69



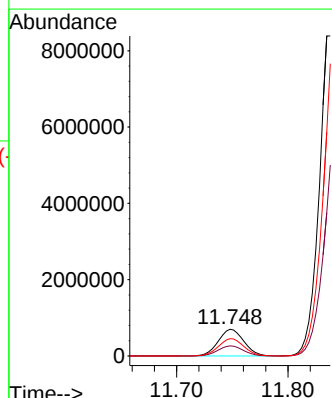
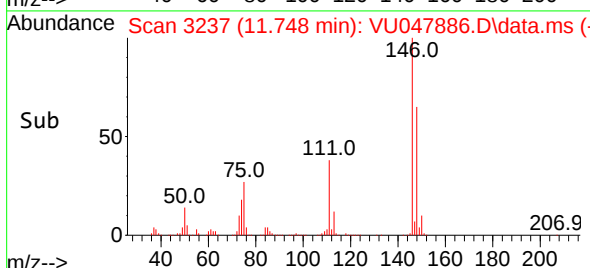
Tgt Ion:146 Resp: 1116352  
Ion Ratio Lower Upper  
146 100  
111 37.8 26.7 49.7  
148 64.8 44.4 82.5

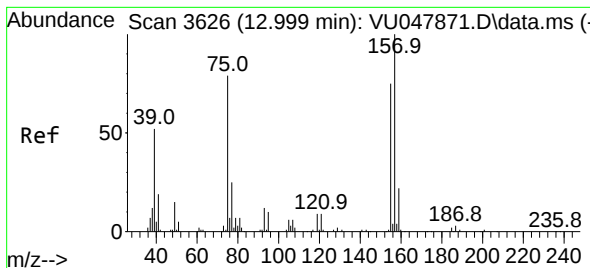


#65  
1,4-Dichlorobenzene  
Concen: 145.645 ug/L  
RT: 11.748 min Scan# 3237  
Delta R.T. -0.090 min  
Lab File: VU047886.D  
Acq: 08 Apr 2022 22:47



Tgt Ion:146 Resp: 1116352  
Ion Ratio Lower Upper  
146 100  
111 37.8 25.3 47.1  
148 64.8 44.5 82.7

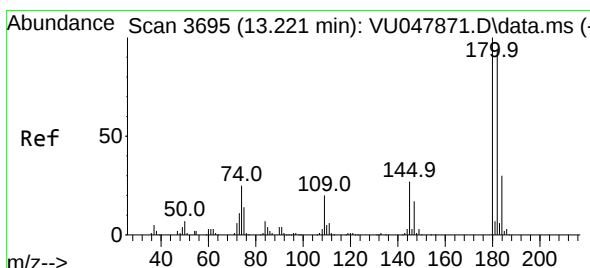
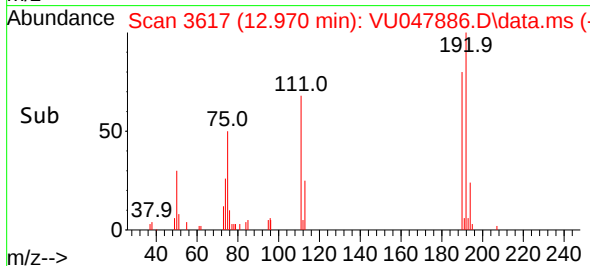
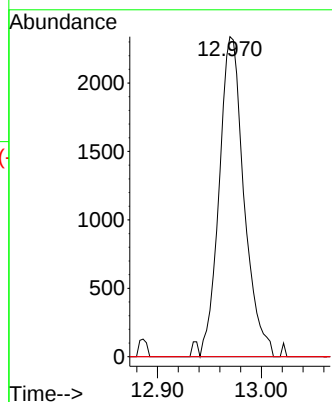
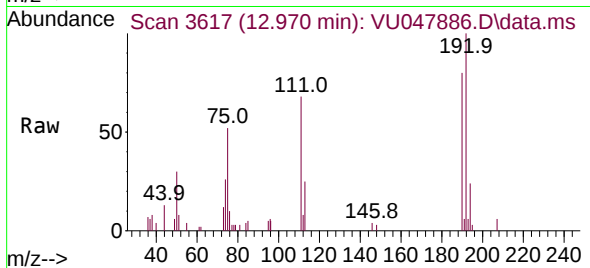




#68  
1,2-Dibromo-3-chloropropane  
Concen: 2.639 ug/L  
RT: 12.970 min Scan# 30  
Delta R.T. -0.029 min  
Lab File: VU047886.D  
Acq: 08 Apr 2022 22:47

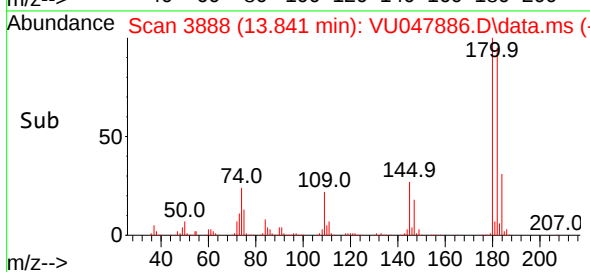
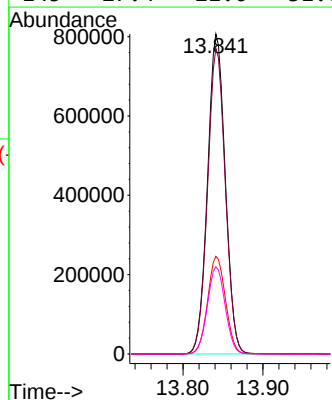
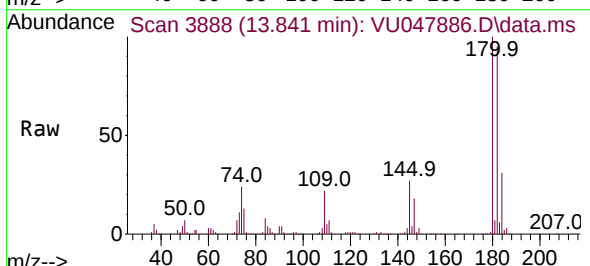
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0J69

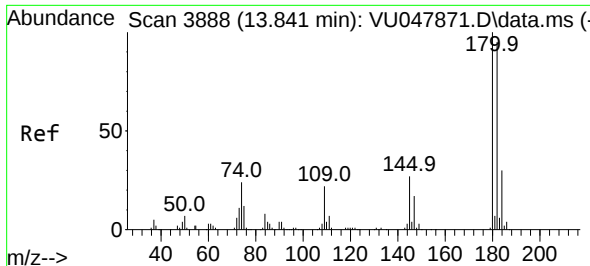
Tgt Ion: 75 Resp: 3926  
Ion Ratio Lower Upper  
75 100  
155 0.0 78.9 118.3#  
157 0.0 97.5 146.3#



#69  
1,3,5-Trichlorobenzene  
Concen: 206.769 ug/L  
RT: 13.841 min Scan# 3888  
Delta R.T. 0.621 min  
Lab File: VU047886.D  
Acq: 08 Apr 2022 22:47

Tgt Ion:180 Resp: 1242659  
Ion Ratio Lower Upper  
180 100  
182 95.6 77.0 115.6  
184 30.8 24.5 36.7  
145 27.4 21.0 31.6

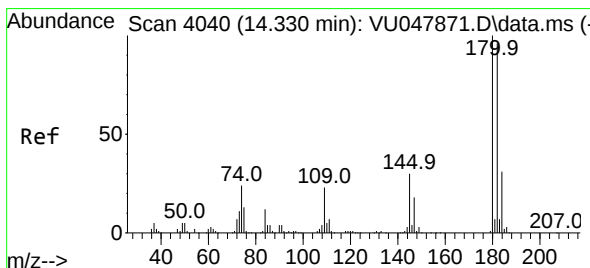
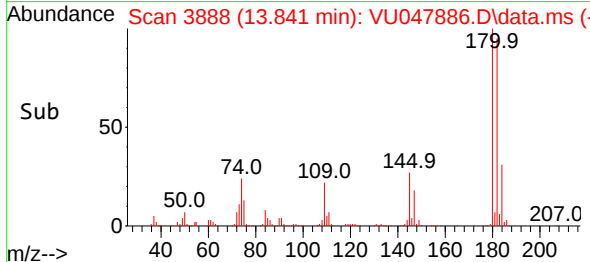
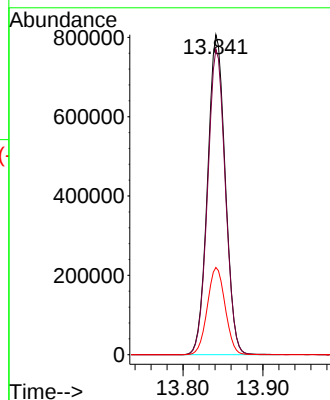
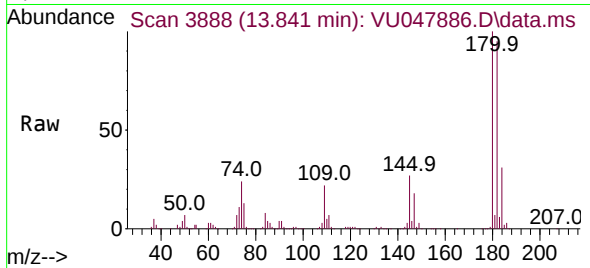




#70  
1,2,4-trichlorobenzene  
Concen: 236.065 ug/L  
RT: 13.841 min Scan# 3888  
Delta R.T. -0.000 min  
Lab File: VU047886.D  
Acq: 08 Apr 2022 22:47

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0J69

Tgt Ion:180 Resp: 1242659  
Ion Ratio Lower Upper  
180 100  
182 95.6 76.2 114.2  
145 27.4 21.8 32.8



#72  
1,2,3-Trichlorobenzene  
Concen: 13.803 ug/L  
RT: 14.333 min Scan# 4041  
Delta R.T. 0.003 min  
Lab File: VU047886.D  
Acq: 08 Apr 2022 22:47

Tgt Ion:180 Resp: 72842  
Ion Ratio Lower Upper  
180 100  
182 97.0 77.4 116.0  
145 29.6 22.8 34.2

