

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU120221\  
 Data File : VU046066.D  
 Acq On : 02 Dec 2021 20:27  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Dec 03 05:15:05 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 03 05:08:36 2021  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.250   | 114   | 275412   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.420   | 117   | 265110   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812  | 152   | 141162   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.601   | 65    | 74070    | 32.649   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 65.300%  |
| 7) Chloroethane-d5            | 1.916   | 69    | 59518    | 34.169   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 68.340%# |
| 11) 1,1-Dichloroethene-d2     | 2.572   | 63    | 157367   | 38.639   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 77.280%  |
| 21) 2-Butanone-d5             | 4.633   | 46    | 150632   | 83.522   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 83.520%  |
| 24) Chloroform-d              | 5.067   | 84    | 164898   | 43.525   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 87.040%  |
| 26) 1,2-Dichloroethane-d4     | 5.703   | 65    | 104831   | 41.230   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 82.460%  |
| 32) Benzene-d6                | 5.729   | 84    | 331471   | 43.623   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 87.240%  |
| 36) 1,2-Dichloropropane-d6    | 6.694   | 67    | 106315   | 45.146   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 90.300%  |
| 41) Toluene-d8                | 7.899   | 98    | 306233   | 44.263   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 88.520%  |
| 43) trans-1,3-Dichloroprop... | 8.179   | 79    | 53058    | 46.673   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 93.340%  |
| 47) 2-Hexanone-d5             | 8.632   | 63    | 108471   | 97.148   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 97.150%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 155854   | 43.640   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 87.280%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.195  | 152   | 123952   | 45.595   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 91.200%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385   | 85    | 126365   | 42.172   | ug/L   | 99       |
| 3) Chloromethane              | 1.520   | 50    | 108286   | 40.404   | ug/L   | 100      |
| 5) Vinyl chloride             | 1.604   | 62    | 114132   | 42.234   | ug/L   | 100      |
| 6) Bromomethane               | 1.861   | 94    | 69585    | 45.431   | ug/L   | 99       |
| 8) Chloroethane               | 1.938   | 64    | 64039    | 40.928   | ug/L   | 97       |
| 9) Trichlorofluoromethane     | 2.141   | 101   | 155481   | 44.069   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.584   | 101   | 93509    | 46.661   | ug/L   | 96       |
| 12) 1,1-Dichloroethene        | 2.584   | 96    | 91452    | 48.024   | ug/L   | 83       |
| 13) Acetone                   | 2.649   | 43    | 110832   | 49.171   | ug/L   | 97       |
| 14) Carbon disulfide          | 2.797   | 76    | 265711   | 44.973   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.954   | 43    | 110186   | 41.935   | ug/L   | 99       |
| 16) Methylene chloride        | 3.051   | 84    | 102757   | 45.354   | ug/L   | 99       |
| 17) trans-1,2-Dichloroethene  | 3.356   | 96    | 98447    | 48.851   | ug/L   | 99       |
| 18) Methyl tert-butyl Ether   | 3.366   | 73    | 317259   | 51.082   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.874   | 63    | 176406   | 48.143   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.671   | 96    | 109658   | 50.148   | ug/L   | 97       |
| 22) 2-Butanone                | 4.713   | 43    | 164900   | 67.205   | ug/L   | 97       |
| 23) Bromochloromethane        | 4.977   | 128   | 56500    | 51.159   | ug/L   | 87       |
| 25) Chloroform                | 5.092   | 83    | 186004   | 45.688   | ug/L   | 99       |

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 Data File : VU046066.D  
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 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 26 Sample Multiplier: 1

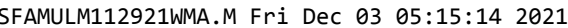
Instrument :  
 MSVOA\_U  
 ClientSampleId :

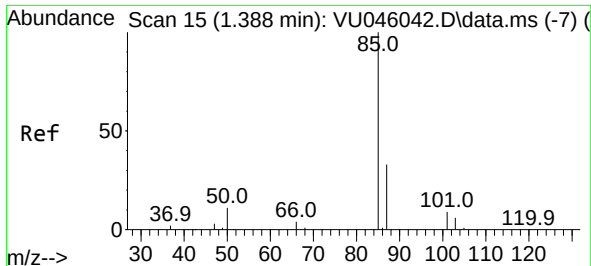
Quant Time: Dec 03 05:15:05 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 03 05:08:36 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.797  | 62   | 138523   | 45.852 | ug/L  | 99       |
| 29) Cyclohexane               | 5.391  | 56   | 161145   | 52.201 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 5.321  | 97   | 164323   | 50.495 | ug/L  | 98       |
| 31) Carbon tetrachloride      | 5.530  | 117  | 138960   | 50.299 | ug/L  | 99       |
| 33) Benzene                   | 5.777  | 78   | 400416   | 49.903 | ug/L  | 100      |
| 34) Trichloroethene           | 6.542  | 95   | 108942   | 51.538 | ug/L  | 99       |
| 35) Methylcyclohexane         | 6.768  | 83   | 170061   | 51.886 | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.793  | 63   | 102610   | 48.818 | ug/L  | 100      |
| 38) Bromodichloromethane      | 7.108  | 83   | 137086   | 49.068 | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene   | 7.610  | 75   | 168241   | 52.614 | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone      | 7.793  | 43   | 299527   | 96.990 | ug/L  | 99       |
| 42) Toluene                   | 7.970  | 91   | 437555   | 50.821 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 8.211  | 75   | 163488   | 52.057 | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane     | 8.401  | 97   | 104504   | 49.557 | ug/L  | 98       |
| 46) Tetrachloroethene         | 8.555  | 164  | 82513    | 53.118 | ug/L  | 95       |
| 48) 2-Hexanone                | 8.684  | 43   | 234372   | 84.860 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.812  | 129  | 113898   | 51.434 | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.925  | 107  | 116236   | 50.841 | ug/L  | 98       |
| 51) Chlorobenzene             | 9.449  | 112  | 285723   | 51.295 | ug/L  | 98       |
| 52) Ethylbenzene              | 9.571  | 91   | 482159   | 52.035 | ug/L  | 98       |
| 53) m,p-Xylene                | 9.697  | 106  | 191532   | 53.003 | ug/L  | 98       |
| 54) o-xylene                  | 10.102 | 106  | 184973   | 52.753 | ug/L  | 97       |
| 55) Styrene                   | 10.115 | 104  | 317392   | 53.018 | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.783 | 83   | 163564   | 45.242 | ug/L  | 98       |
| 59) Bromoform                 | 10.292 | 173  | 84806    | 51.212 | ug/L  | 98       |
| 60) 1,2,3-Trichloropropane    | 10.825 | 75   | 143211   | 46.281 | ug/L  | 99       |
| 61) Isopropylbenzene          | 10.484 | 105  | 491469   | 53.510 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 420317   | 54.904 | ug/L  | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 423106   | 55.242 | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.748 | 146  | 227178   | 52.072 | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.838 | 146  | 230232   | 51.061 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.214 | 146  | 221418   | 50.397 | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.996 | 75   | 41052    | 49.799 | ug/L  | 93       |
| 69) 1,3,5-Trichlorobenzene    | 13.221 | 180  | 168860   | 53.119 | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.841 | 180  | 158787   | 56.289 | ug/L  | 99       |
| 71) Naphthalene               | 14.086 | 128  | 585476   | 59.643 | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 160785   | 55.894 | ug/L  | 99       |

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

Quant Time: Dec 03 05:15:05 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Dec 03 05:08:36 2021  
Response via : Initial Calibration

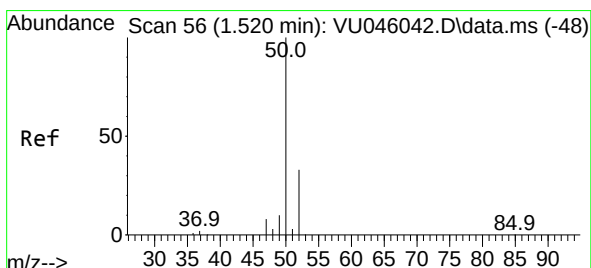
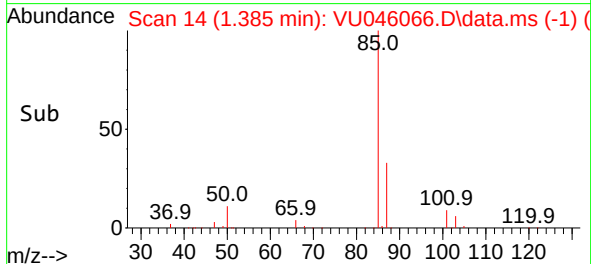
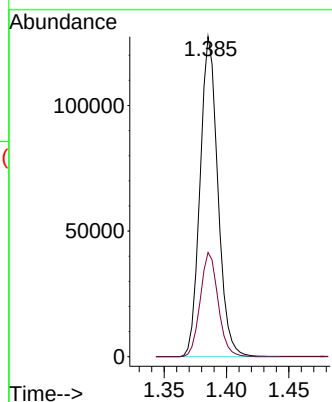
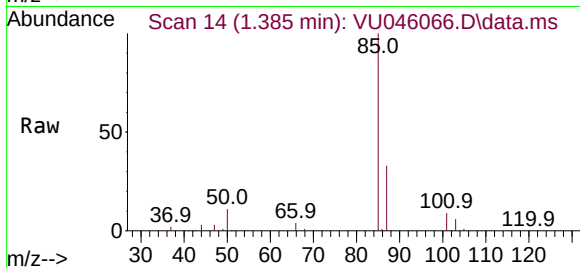




#2  
 Dichlorodifluoromethane  
 Concen: 42.172 ug/L  
 RT: 1.385 min Scan# 14  
 Delta R.T. -0.003 min  
 Lab File: VU046066.D  
 Acq: 02 Dec 2021 20:27

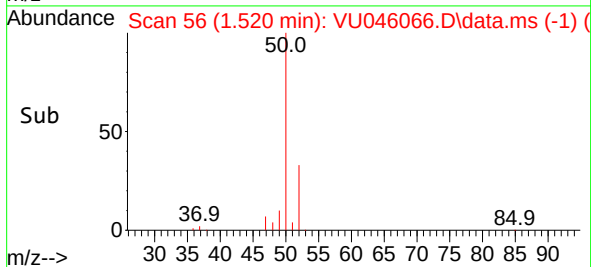
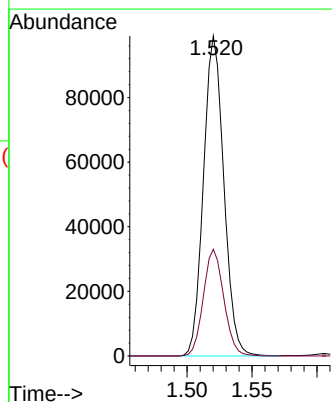
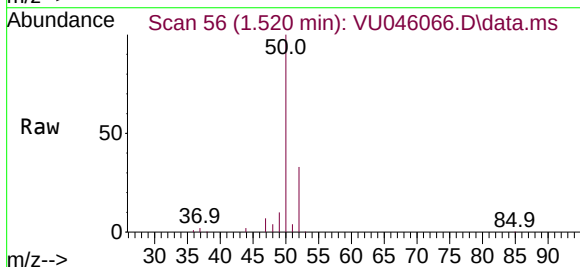
Instrument :  
 MSVOA\_U  
 ClientSampleId :

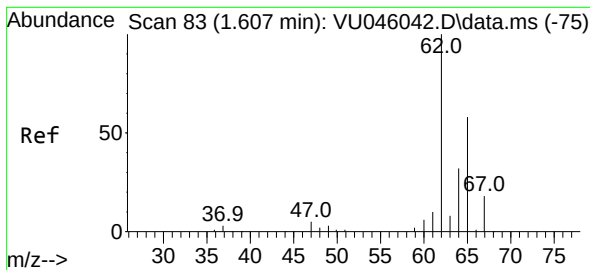
Tgt Ion: 85 Resp: 126365  
 Ion Ratio Lower Upper  
 85 100  
 87 32.6 25.7 38.5



#3  
 Chloromethane  
 Concen: 40.404 ug/L  
 RT: 1.520 min Scan# 56  
 Delta R.T. 0.000 min  
 Lab File: VU046066.D  
 Acq: 02 Dec 2021 20:27

Tgt Ion: 50 Resp: 108286  
 Ion Ratio Lower Upper  
 50 100  
 52 33.3 23.2 43.2





#5

Vinyl chloride

Concen: 42.234 ug/L

RT: 1.604 min Scan# 81

Delta R.T. -0.003 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

Instrument :

MSVOA\_U

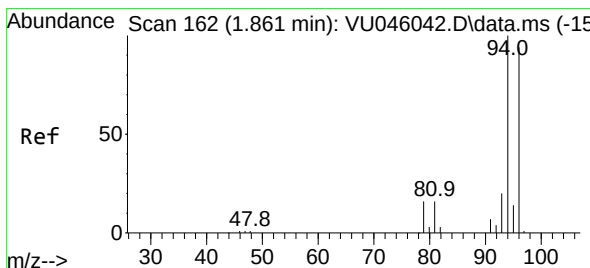
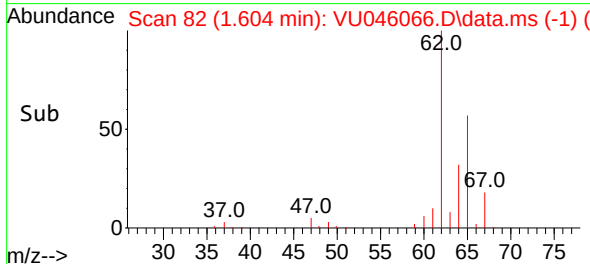
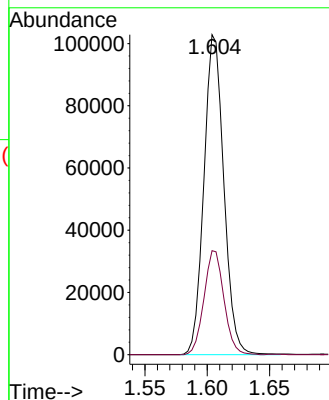
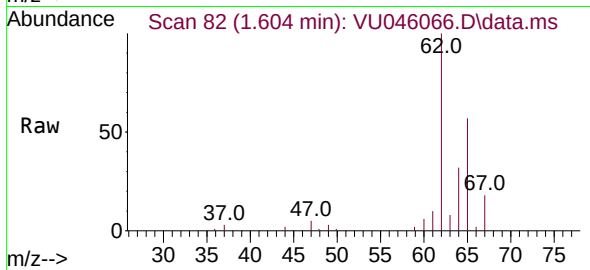
ClientSampleId :

Tgt Ion: 62 Resp: 114132

Ion Ratio Lower Upper

62 100

64 32.5 22.9 42.5



#6

Bromomethane

Concen: 45.431 ug/L

RT: 1.861 min Scan# 162

Delta R.T. 0.000 min

Lab File: VU046066.D

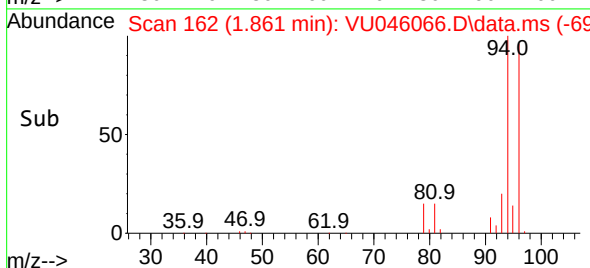
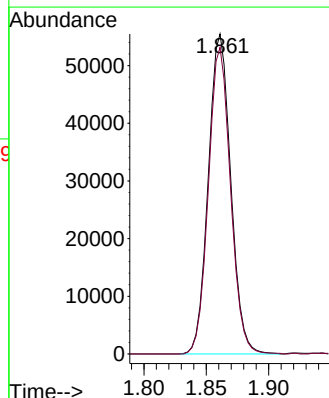
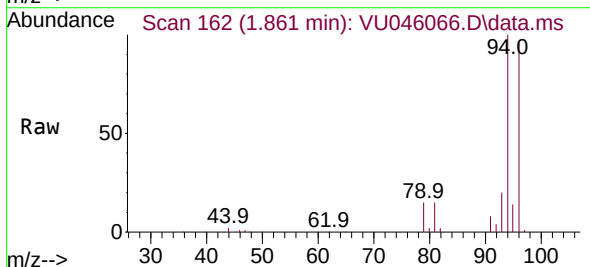
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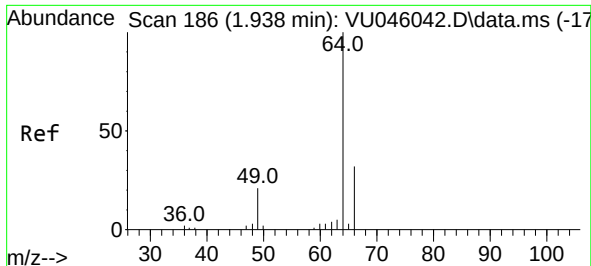
Tgt Ion: 94 Resp: 69585

Ion Ratio Lower Upper

94 100

96 95.8 67.4 125.2

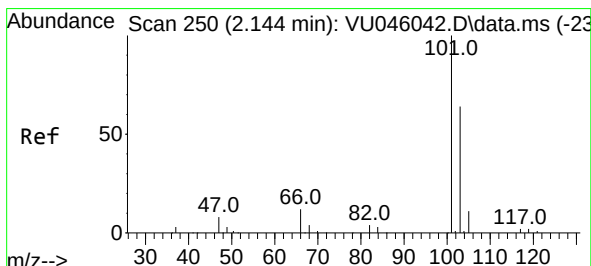
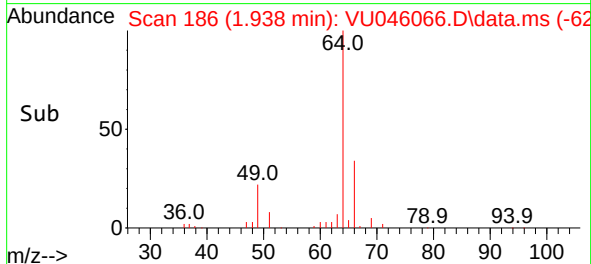
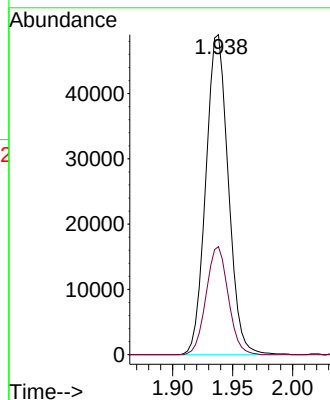
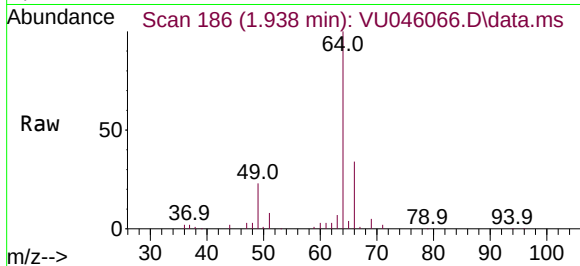




#8  
Chloroethane  
Concen: 40.928 ug/L  
RT: 1.938 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

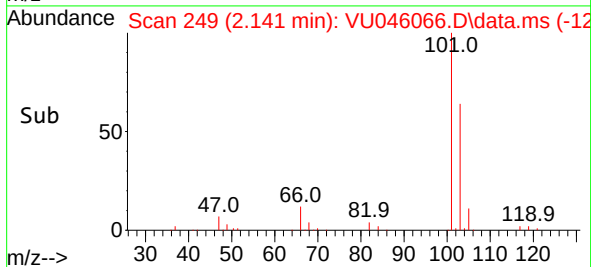
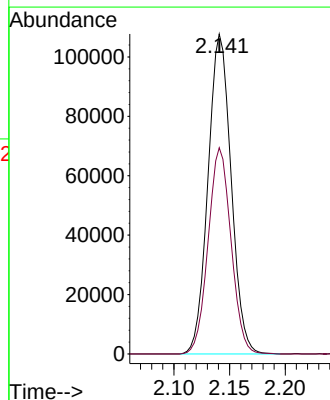
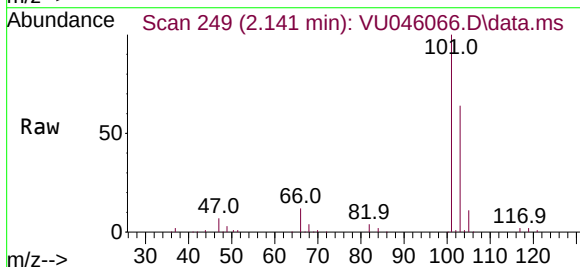
Instrument :  
MSVOA\_U  
ClientSampleId :

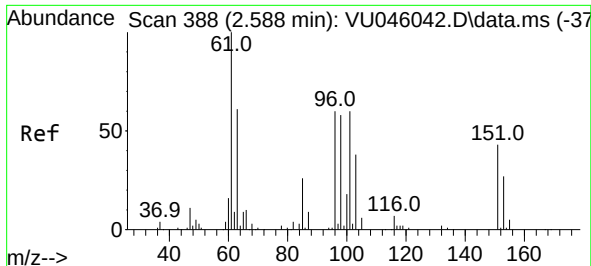
Tgt Ion: 64 Resp: 64039  
Ion Ratio Lower Upper  
64 100  
66 33.8 22.5 41.9



#9  
Trichlorofluoromethane  
Concen: 44.069 ug/L  
RT: 2.141 min Scan# 249  
Delta R.T. -0.003 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

Tgt Ion:101 Resp: 155481  
Ion Ratio Lower Upper  
101 100  
103 63.7 51.8 77.6





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 46.661 ug/L

RT: 2.584 min Scan# 387

Delta R.T. -0.003 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

Instrument :

MSVOA\_U

ClientSampleId :

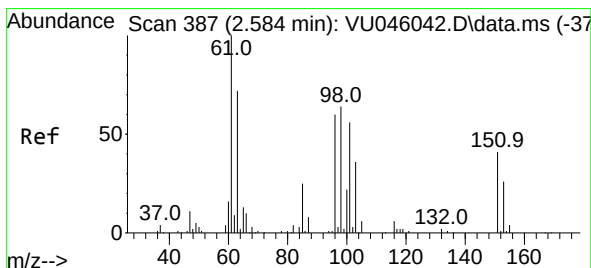
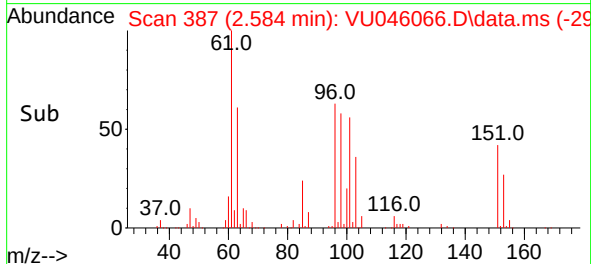
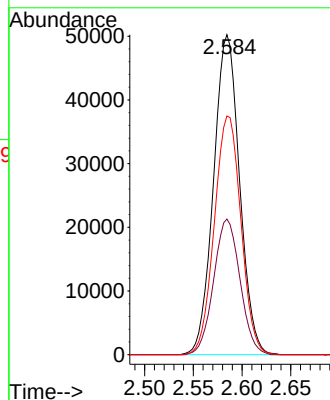
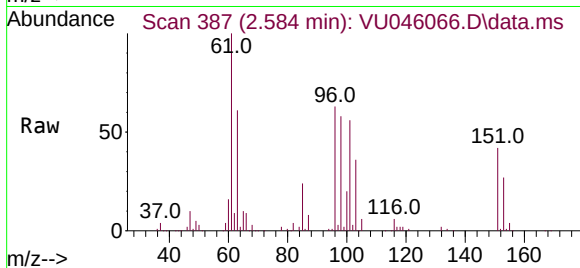
Tgt Ion:101 Resp: 93509

Ion Ratio Lower Upper

101 100

85 42.9 35.1 52.7

151 76.1 56.7 85.1



#12

1,1-Dichloroethene

Concen: 48.024 ug/L

RT: 2.584 min Scan# 387

Delta R.T. 0.000 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

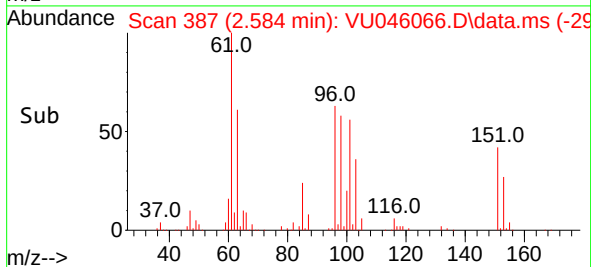
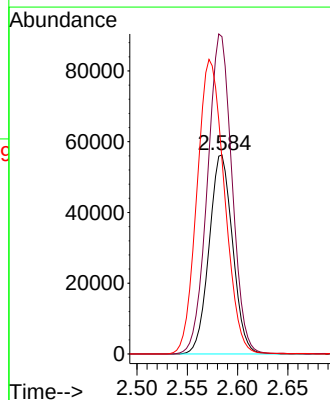
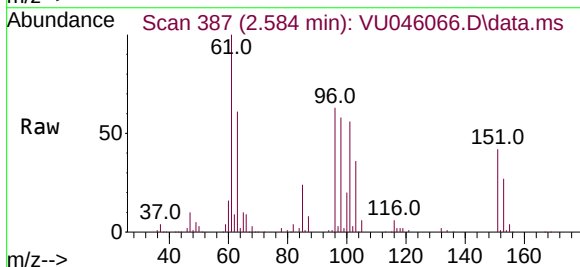
Tgt Ion: 96 Resp: 91452

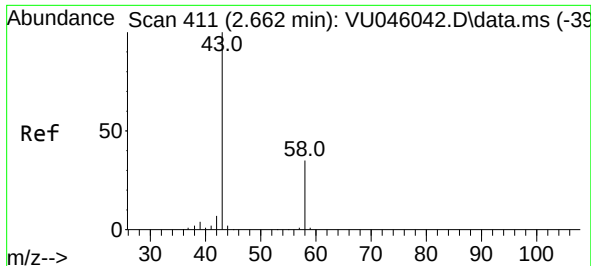
Ion Ratio Lower Upper

96 100

61 159.4 118.6 220.2

63 97.8 93.0 172.8





#13

Acetone

Concen: 49.171 ug/L

RT: 2.649 min Scan# 407

Delta R.T. -0.013 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

Instrument :

MSVOA\_U

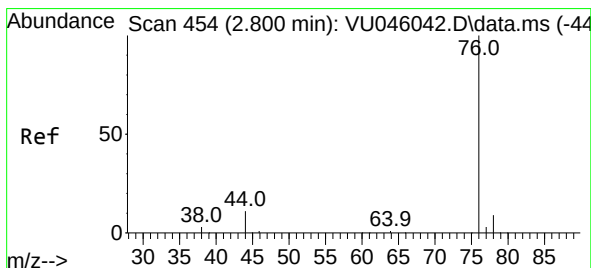
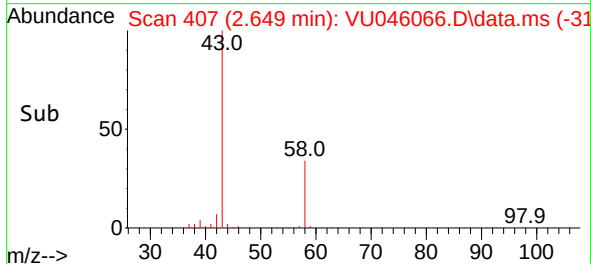
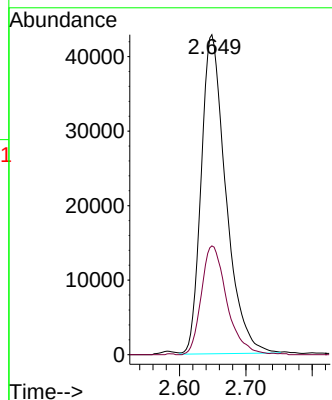
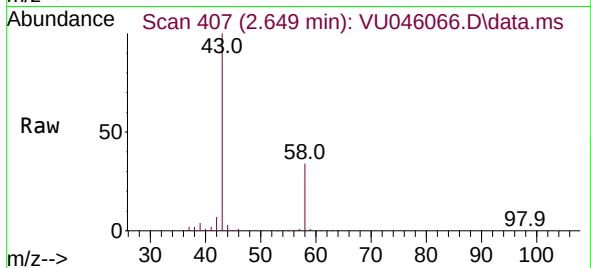
ClientSampleId :

Tgt Ion: 43 Resp: 110832

Ion Ratio Lower Upper

43 100

58 35.0 0.0 66.8



#14

Carbon disulfide

Concen: 44.973 ug/L

RT: 2.797 min Scan# 453

Delta R.T. -0.003 min

Lab File: VU046066.D

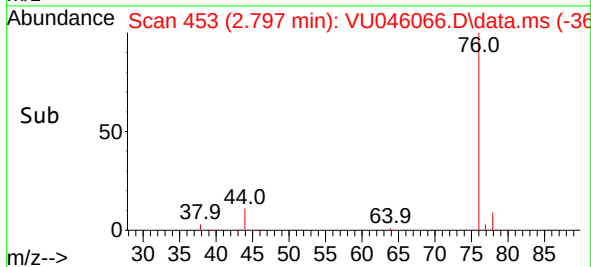
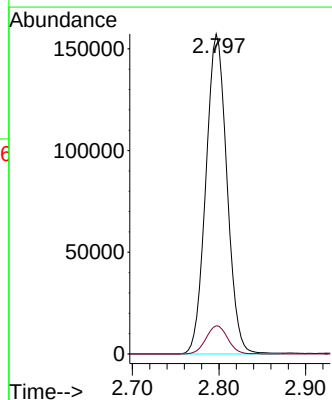
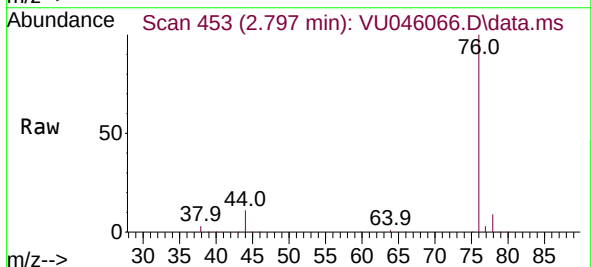
Acq: 02 Dec 2021 20:27

Tgt Ion: 76 Resp: 265711

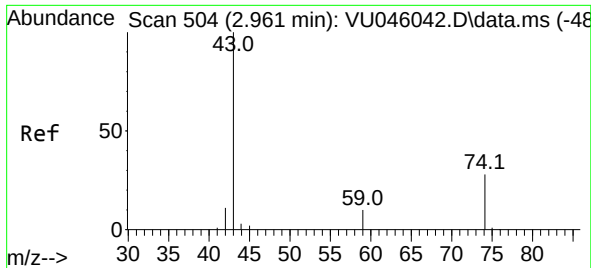
Ion Ratio Lower Upper

76 100

78 8.8 7.3 10.9



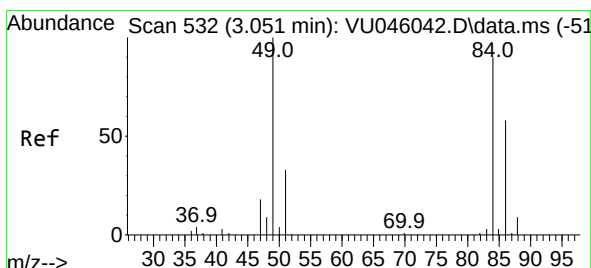
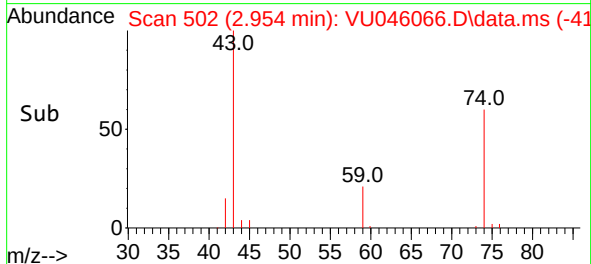
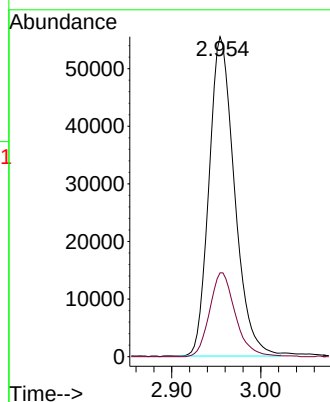
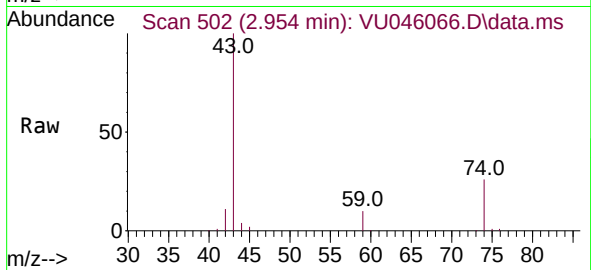




#15  
Methyl Acetate  
Concen: 41.935 ug/L  
RT: 2.954 min Scan# 504  
Delta R.T. -0.006 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

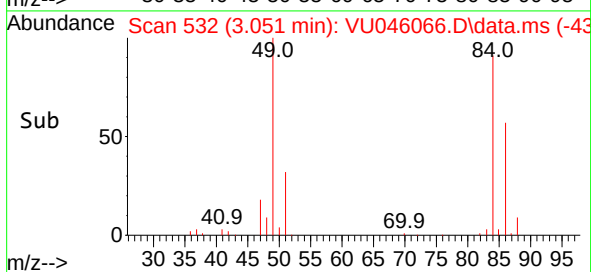
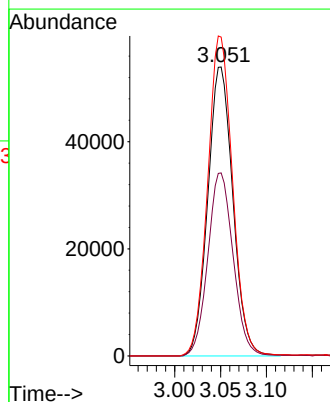
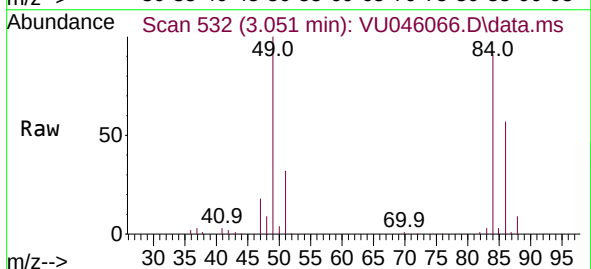
Instrument :  
MSVOA\_U  
ClientSampleId :

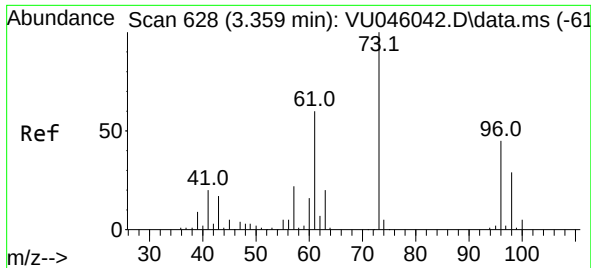
Tgt Ion: 43 Resp: 110186  
Ion Ratio Lower Upper  
43 100  
74 26.7 20.8 31.2



#16  
Methylene chloride  
Concen: 45.354 ug/L  
RT: 3.051 min Scan# 532  
Delta R.T. 0.000 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

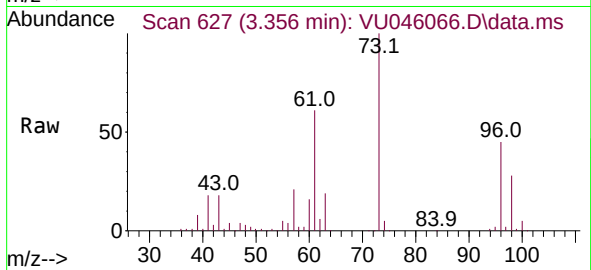
Tgt Ion: 84 Resp: 102757  
Ion Ratio Lower Upper  
84 100  
86 63.3 44.7 83.1  
49 110.4 78.4 145.6



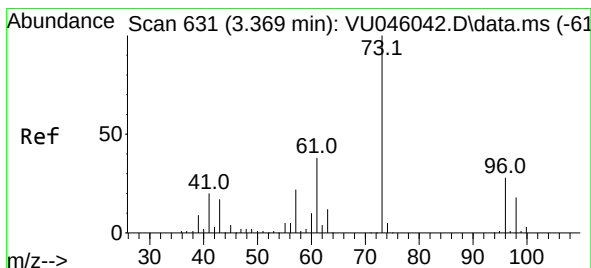
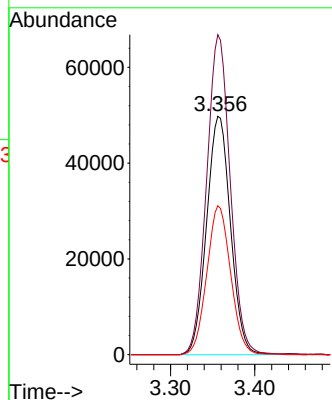
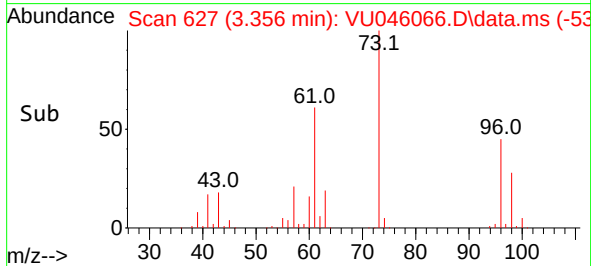


#17  
trans-1,2-Dichloroethene  
Concen: 48.851 ug/L  
RT: 3.356 min Scan# 61  
Delta R.T. -0.003 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

Instrument :  
MSVOA\_U  
ClientSampleId :

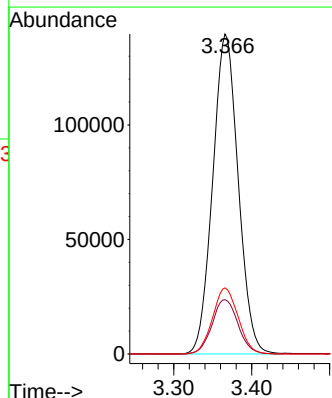
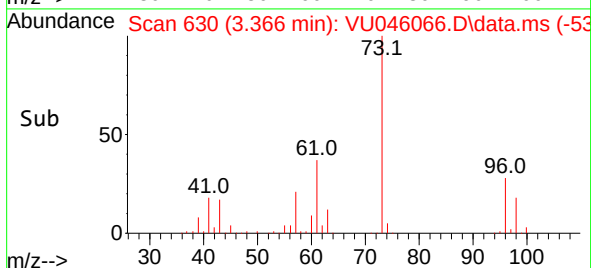
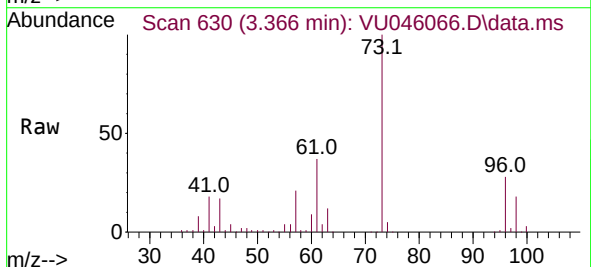


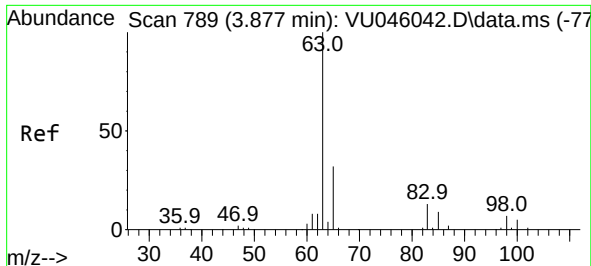
Tgt Ion: 96 Resp: 98447  
Ion Ratio Lower Upper  
96 100  
61 134.2 94.6 175.6  
98 62.5 44.0 81.8



#18  
Methyl tert-butyl Ether  
Concen: 51.082 ug/L  
RT: 3.366 min Scan# 630  
Delta R.T. -0.003 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

Tgt Ion: 73 Resp: 317259  
Ion Ratio Lower Upper  
73 100  
43 17.3 14.0 21.0  
57 20.7 17.0 25.4





#19

1,1-Dichloroethane

Concen: 48.143 ug/L

RT: 3.874 min Scan# 71

Delta R.T. -0.003 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

Instrument :

MSVOA\_U

ClientSampleId :

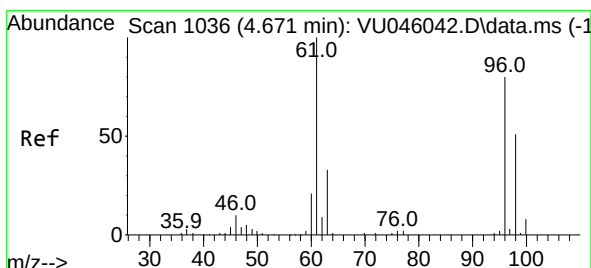
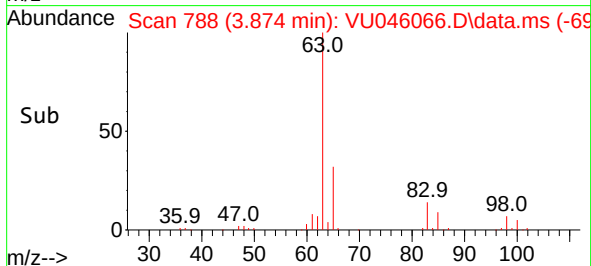
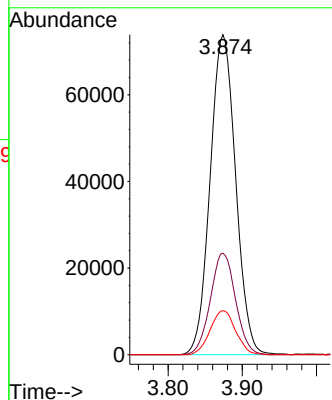
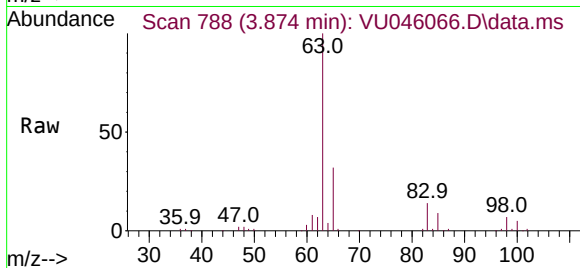
Tgt Ion: 63 Resp: 176406

Ion Ratio Lower Upper

63 100

65 31.7 22.8 42.4

83 13.8 9.6 17.8



#20

cis-1,2-Dichloroethene

Concen: 50.148 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

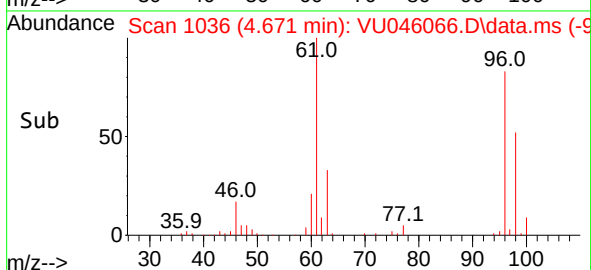
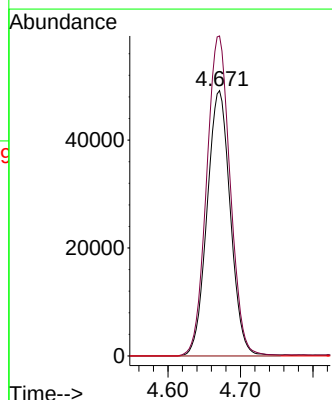
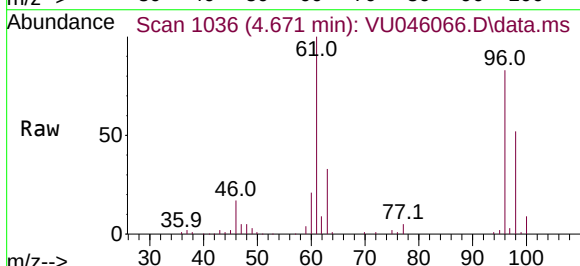
Tgt Ion: 96 Resp: 109658

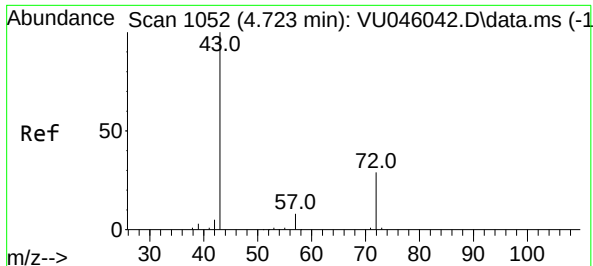
Ion Ratio Lower Upper

96 100

61 120.6 86.8 161.2

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 67.205 ug/L

RT: 4.713 min Scan# 1049

Delta R.T. -0.010 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

Instrument :

MSVOA\_U

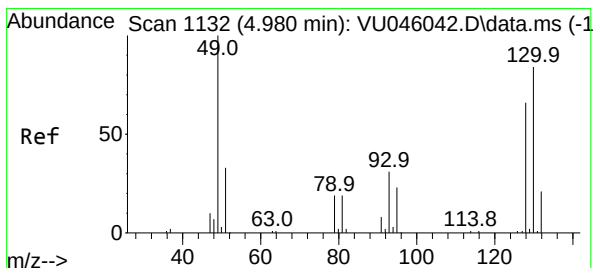
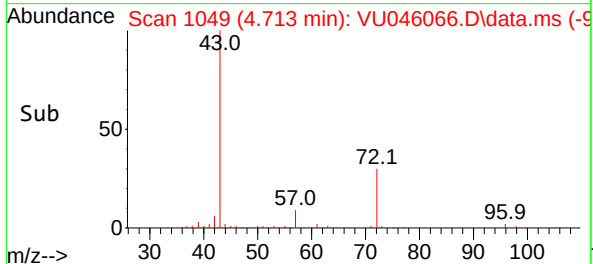
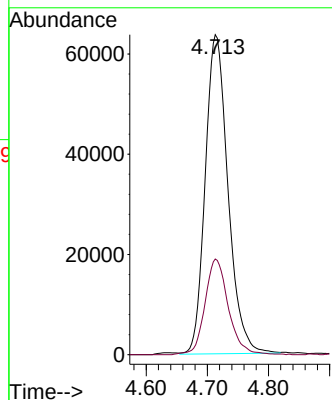
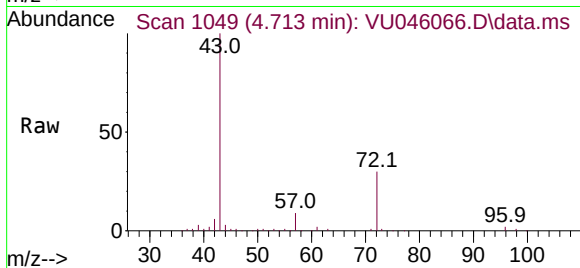
ClientSampleId :

Tgt Ion: 43 Resp: 164900

Ion Ratio Lower Upper

43 100

72 30.7 14.5 43.6



#23

Bromochloromethane

Concen: 51.159 ug/L

RT: 4.977 min Scan# 1131

Delta R.T. -0.003 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

Tgt Ion: 128 Resp: 56500

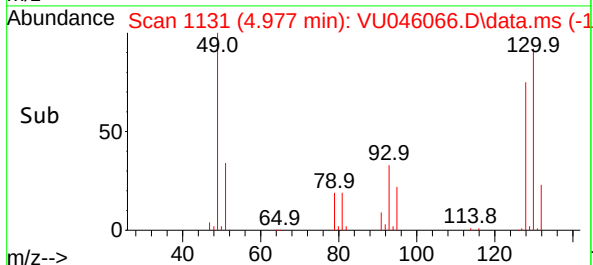
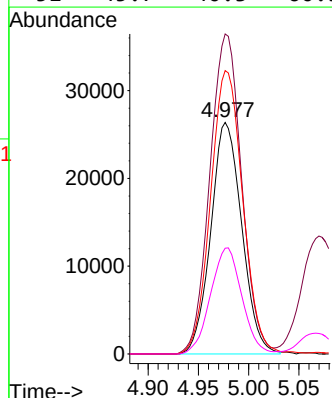
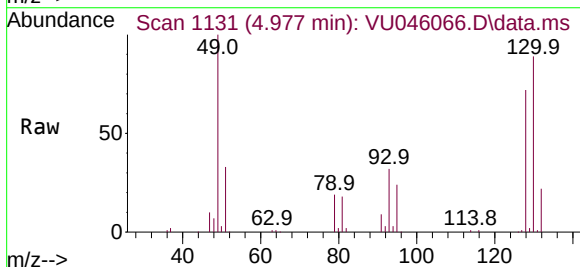
Ion Ratio Lower Upper

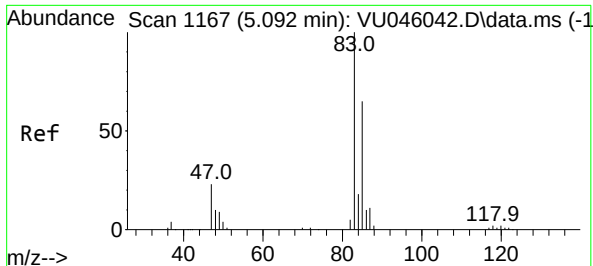
128 100

49 138.2 115.9 215.3

130 122.4 91.8 170.4

51 45.7 40.3 60.5





#25

Chloroform

Concen: 45.688 ug/L

RT: 5.092 min Scan# 1167

Delta R.T. 0.000 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

Instrument :

MSVOA\_U

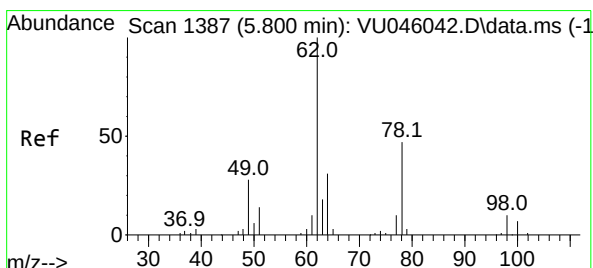
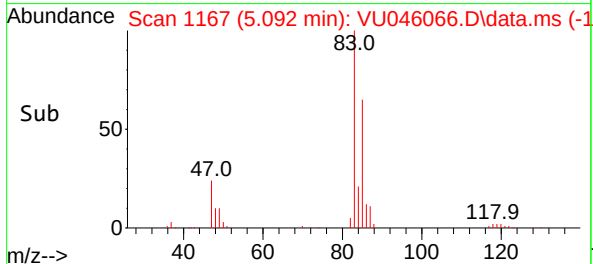
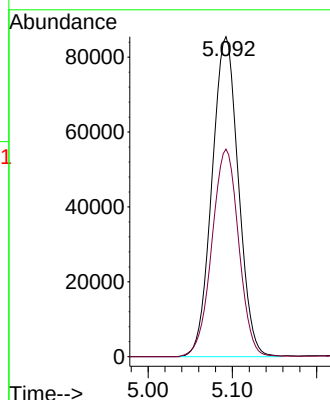
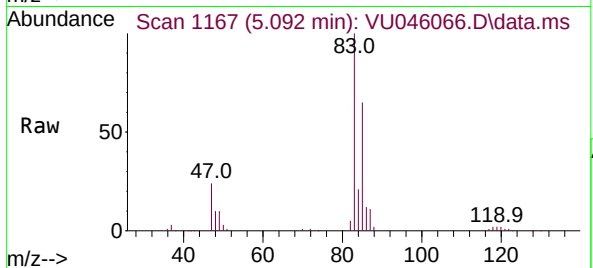
ClientSampleId :

Tgt Ion: 83 Resp: 186004

Ion Ratio Lower Upper

83 100

85 64.9 45.8 85.2



#27

1,2-Dichloroethane

Concen: 45.852 ug/L

RT: 5.797 min Scan# 1386

Delta R.T. -0.003 min

Lab File: VU046066.D

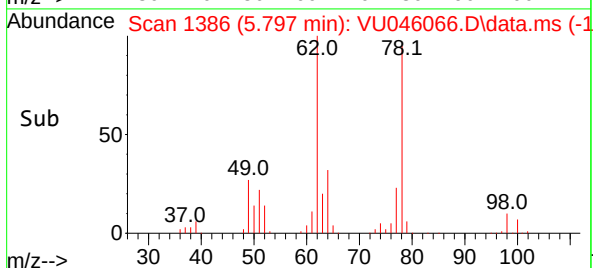
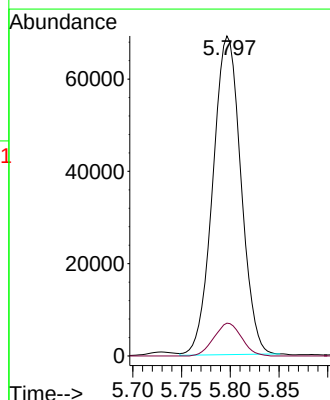
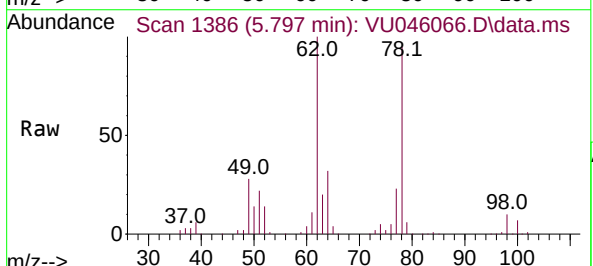
Acq: 02 Dec 2021 20:27

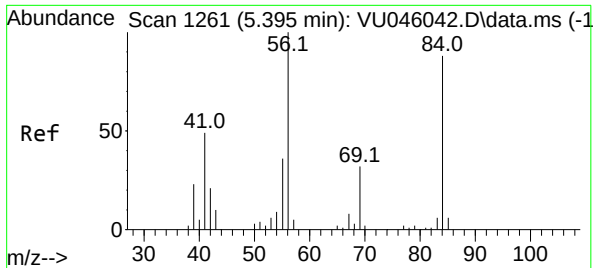
Tgt Ion: 62 Resp: 138523

Ion Ratio Lower Upper

62 100

98 10.3 7.9 11.9





#29

Cyclohexane

Concen: 52.201 ug/L

RT: 5.391 min Scan# 1260

Delta R.T. -0.003 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

Instrument :

MSVOA\_U

ClientSampleId :

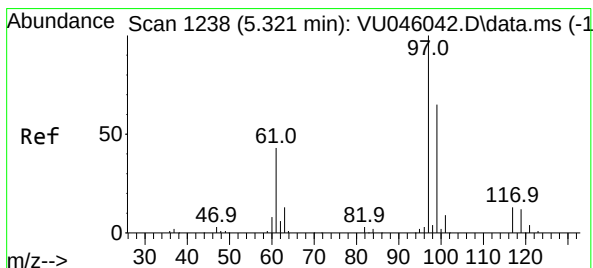
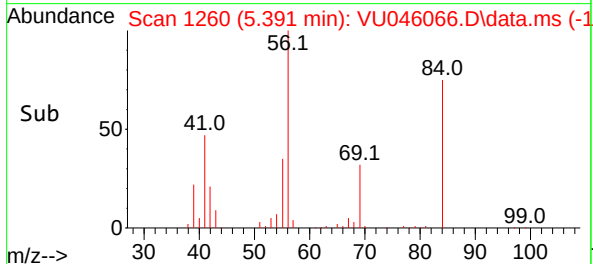
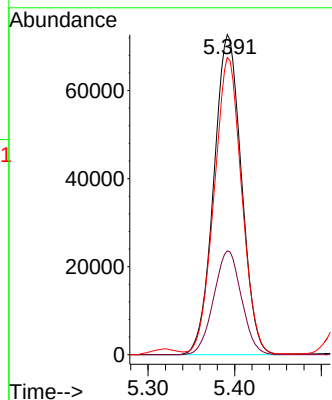
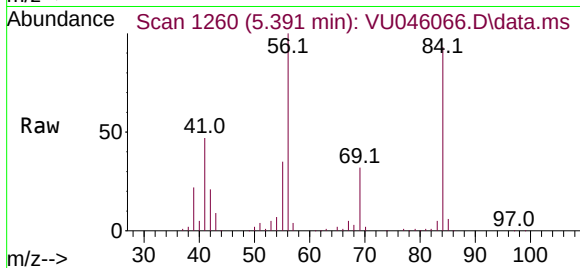
Tgt Ion: 56 Resp: 161145

Ion Ratio Lower Upper

56 100

69 32.5 25.2 37.8

84 92.3 73.3 109.9



#30

1,1,1-Trichloroethane

Concen: 50.495 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. 0.000 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

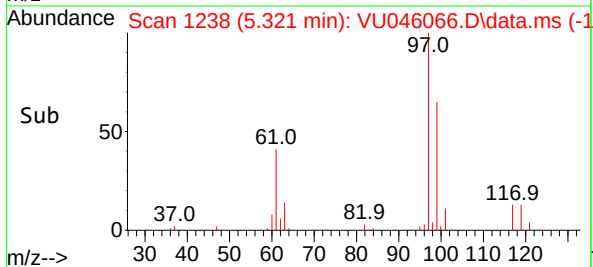
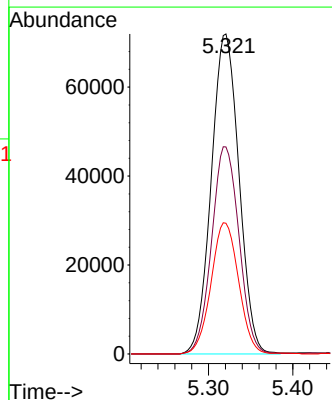
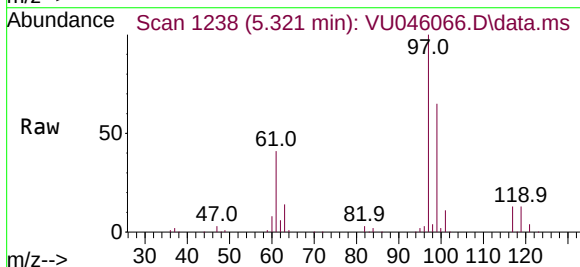
Tgt Ion: 97 Resp: 164323

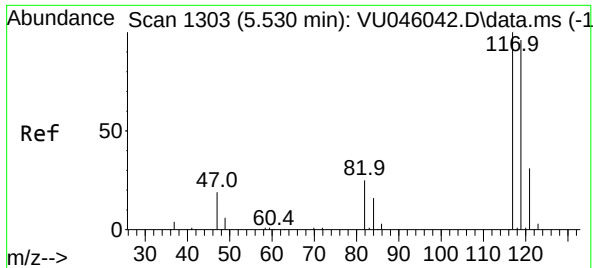
Ion Ratio Lower Upper

97 100

99 64.1 51.8 77.6

61 40.8 34.4 51.6

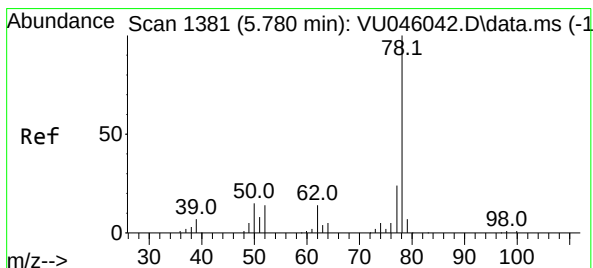
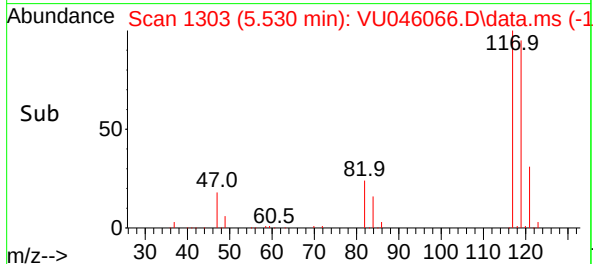
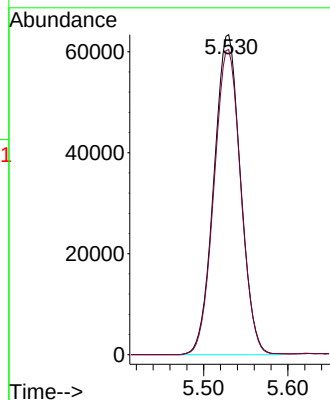
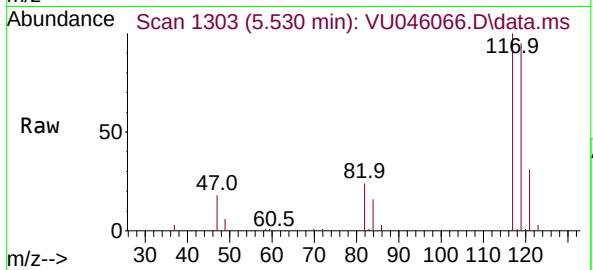




#31  
Carbon tetrachloride  
Concen: 50.299 ug/L  
RT: 5.530 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

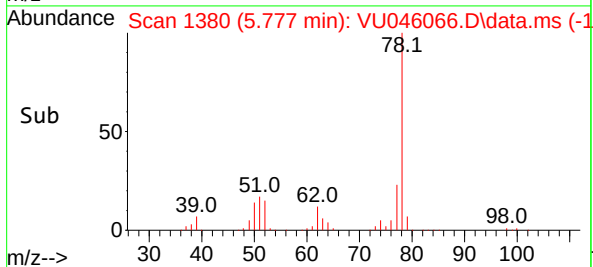
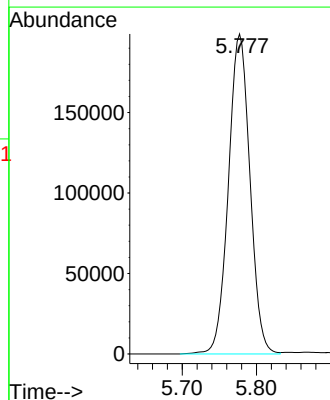
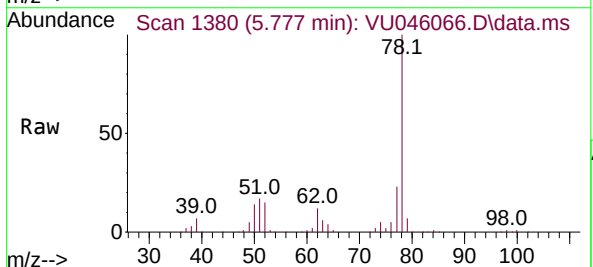
Instrument :  
MSVOA\_U  
ClientSampleId :

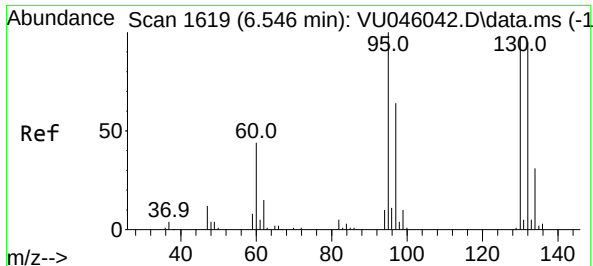
Tgt Ion:117 Resp: 138960  
Ion Ratio Lower Upper  
117 100  
119 96.0 75.7 113.5



#33  
Benzene  
Concen: 49.903 ug/L  
RT: 5.777 min Scan# 1380  
Delta R.T. -0.003 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

Tgt Ion: 78 Resp: 400416

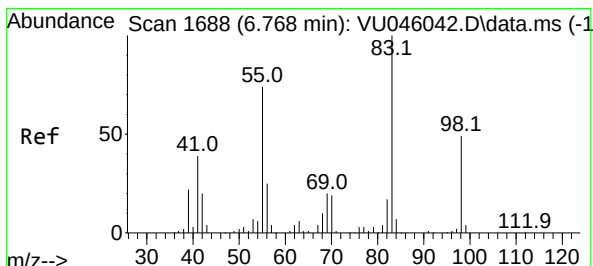
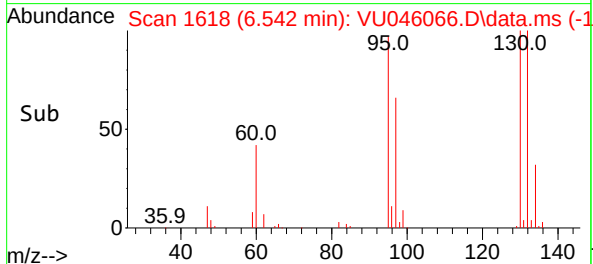
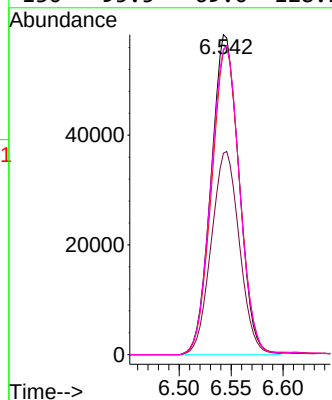
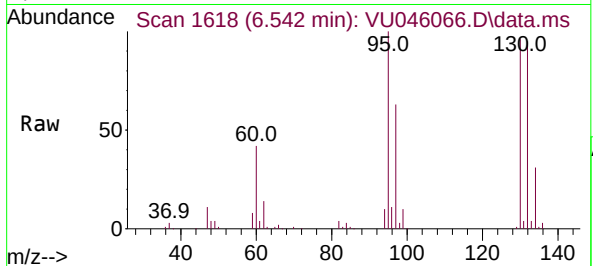




#34  
Trichloroethene  
Concen: 51.538 ug/L  
RT: 6.542 min Scan# 1618  
Delta R.T. -0.003 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

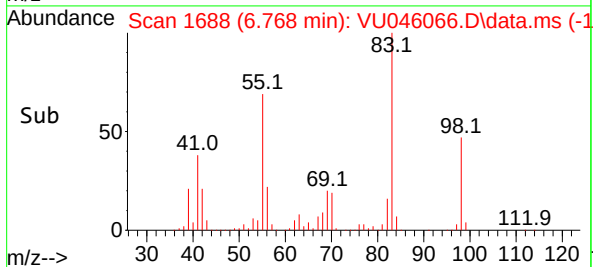
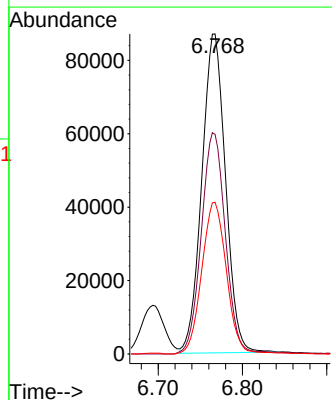
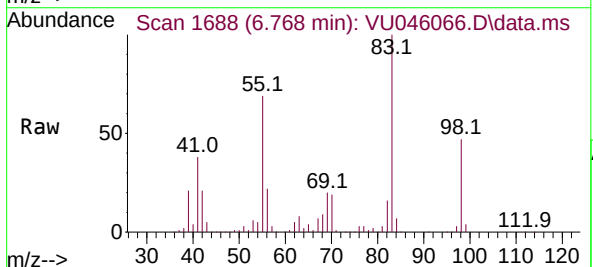
Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion: 95 Resp: 108942  
Ion Ratio Lower Upper  
95 100  
97 62.9 44.1 81.9  
132 95.1 66.8 124.0  
130 95.5 69.0 128.1

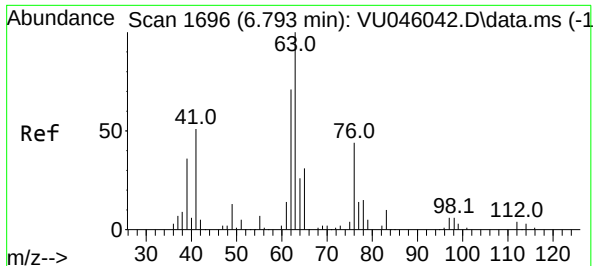


#35  
Methylcyclohexane  
Concen: 51.886 ug/L  
RT: 6.768 min Scan# 1688  
Delta R.T. 0.000 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

Tgt Ion: 83 Resp: 170061  
Ion Ratio Lower Upper  
83 100  
55 70.6 57.8 86.6  
98 49.2 38.4 57.6







#37

1,2-Dichloropropane

Concen: 48.818 ug/L

RT: 6.793 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

Instrument :

MSVOA\_U

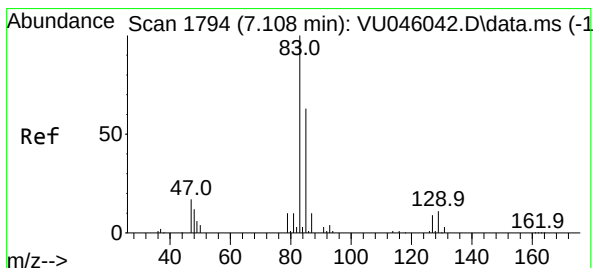
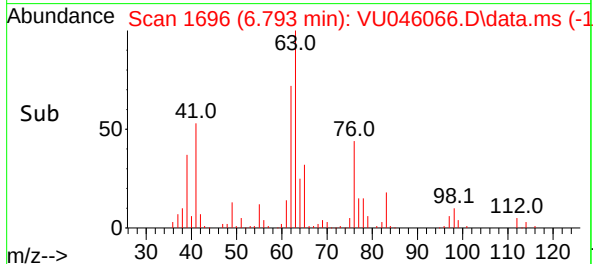
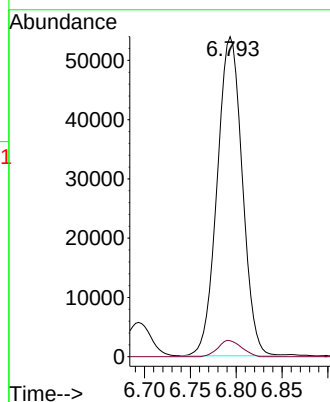
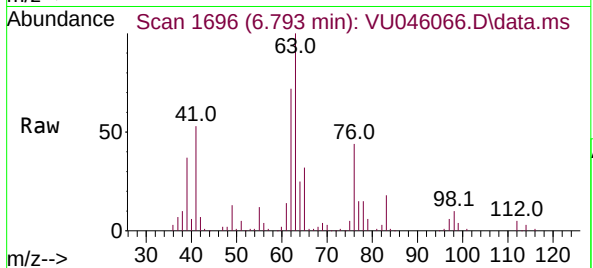
ClientSampleId :

Tgt Ion: 63 Resp: 102610

Ion Ratio Lower Upper

63 100

112 4.8 3.8 5.6



#38

Bromodichloromethane

Concen: 49.068 ug/L

RT: 7.108 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

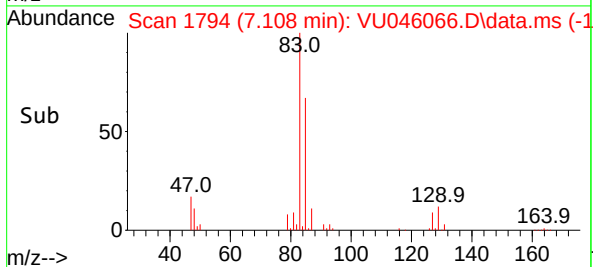
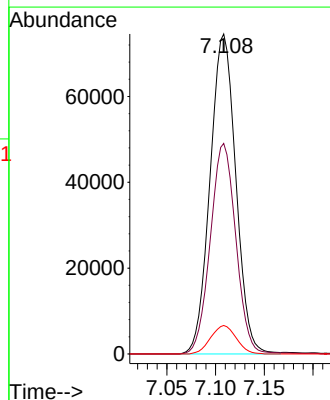
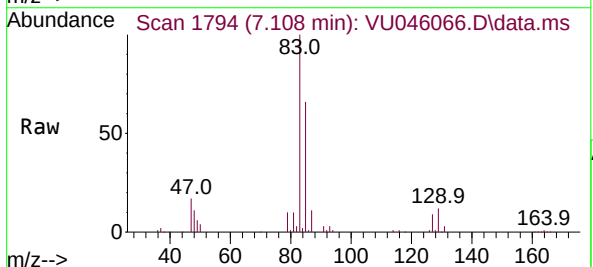
Tgt Ion: 83 Resp: 137086

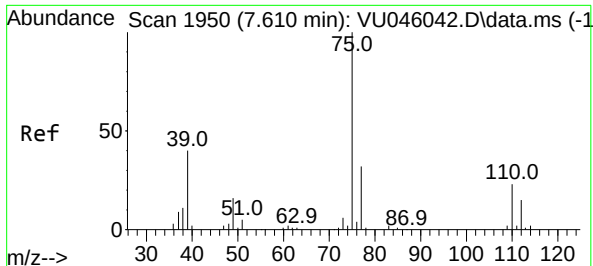
Ion Ratio Lower Upper

83 100

85 65.8 44.4 82.5

127 8.9 6.9 10.3





#39

cis-1,3-Dichloropropene

Concen: 52.614 ug/L

RT: 7.610 min Scan# 1950

Delta R.T. 0.000 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

Instrument :

MSVOA\_U

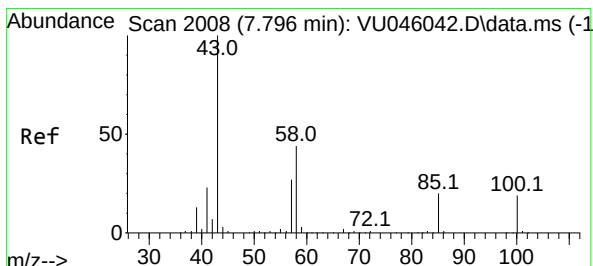
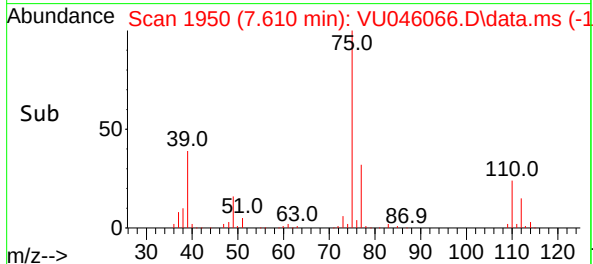
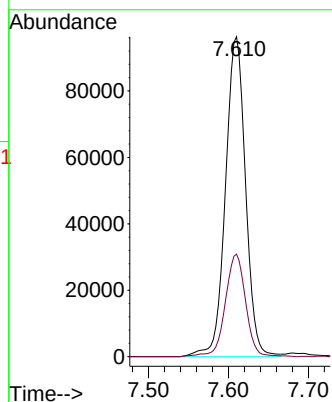
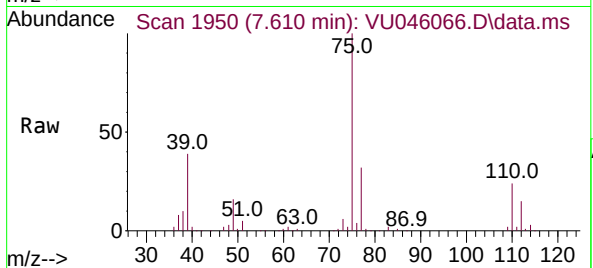
ClientSampleId :

Tgt Ion: 75 Resp: 168241

Ion Ratio Lower Upper

75 100

77 32.1 21.8 40.6



#40

4-Methyl-2-pentanone

Concen: 96.990 ug/L

RT: 7.793 min Scan# 2007

Delta R.T. -0.003 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

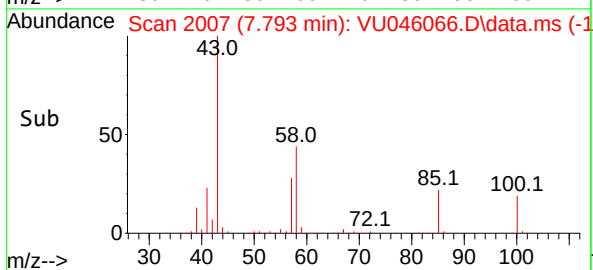
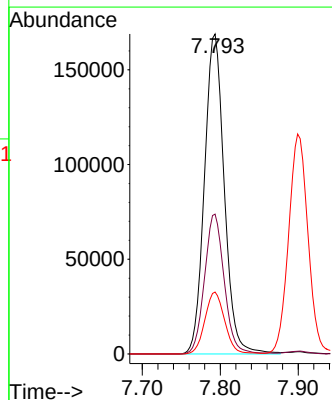
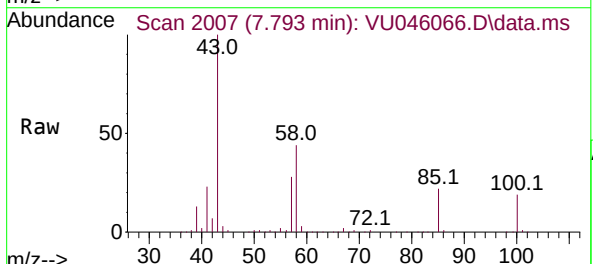
Tgt Ion: 43 Resp: 299527

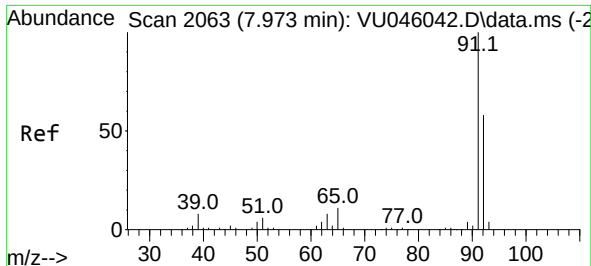
Ion Ratio Lower Upper

43 100

58 43.4 34.2 51.4

100 19.3 14.5 21.7





#42

Toluene

Concen: 50.821 ug/L

RT: 7.970 min Scan# 2063

Delta R.T. -0.003 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

Instrument :

MSVOA\_U

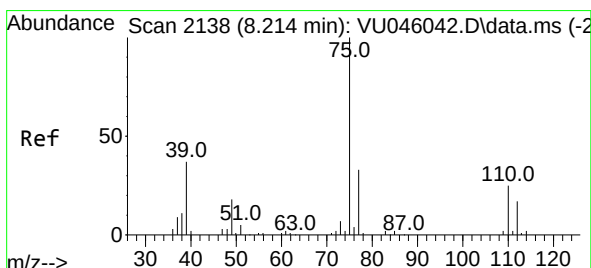
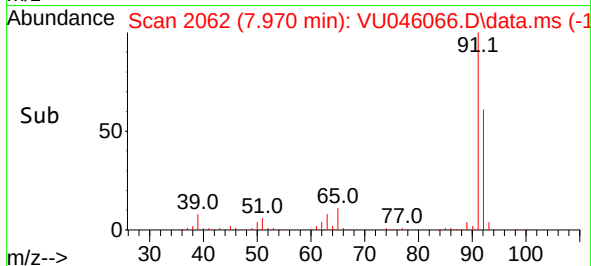
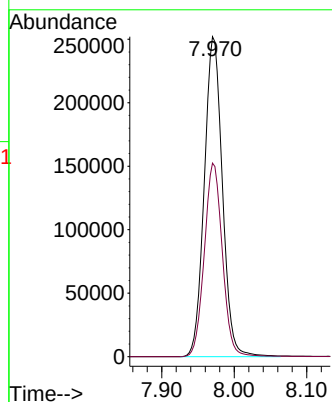
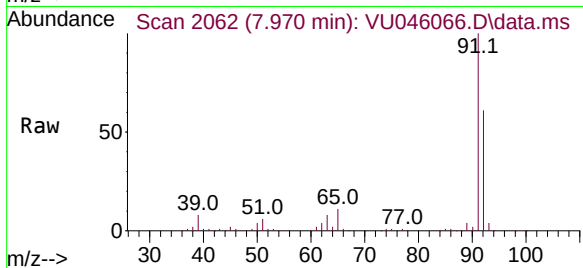
ClientSampleId :

Tgt Ion: 91 Resp: 437555

Ion Ratio Lower Upper

91 100

92 60.5 41.9 77.7



#44

trans-1,3-Dichloropropene

Concen: 52.057 ug/L

RT: 8.211 min Scan# 2137

Delta R.T. -0.003 min

Lab File: VU046066.D

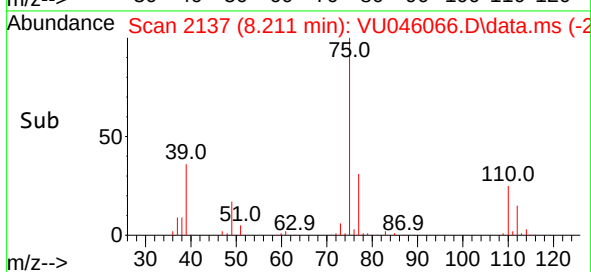
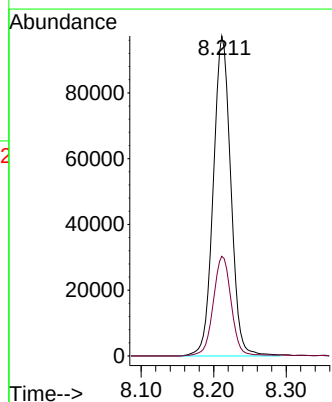
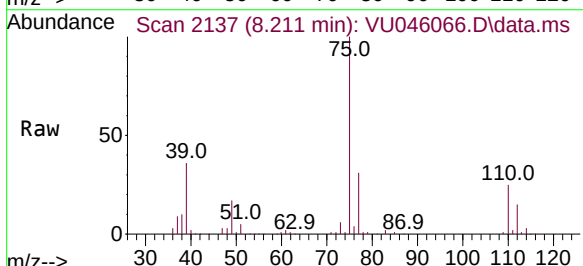
Acq: 02 Dec 2021 20:27

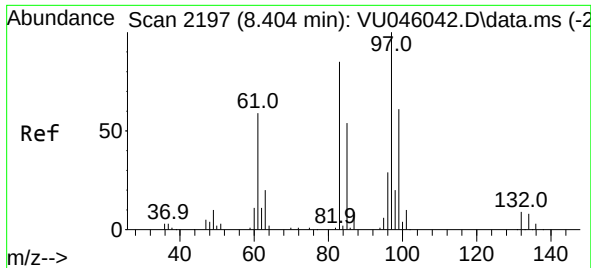
Tgt Ion: 75 Resp: 163488

Ion Ratio Lower Upper

75 100

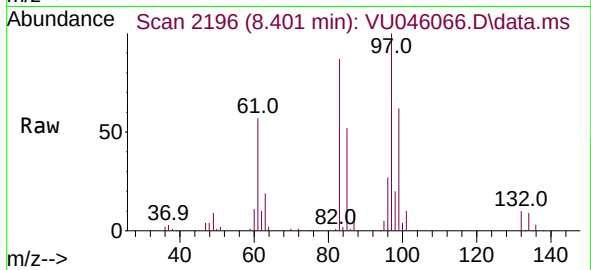
77 31.2 21.7 40.3



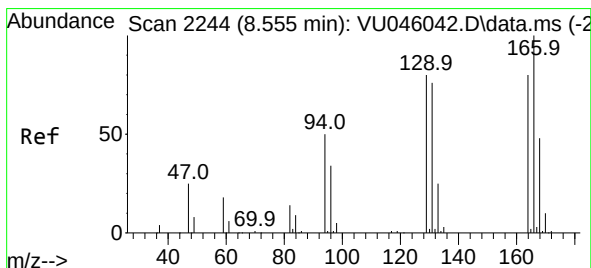
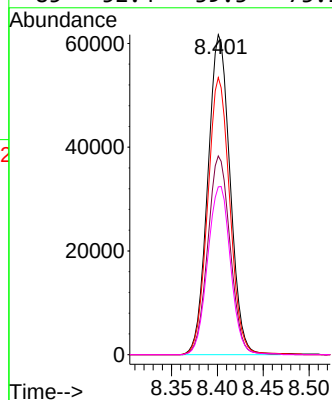
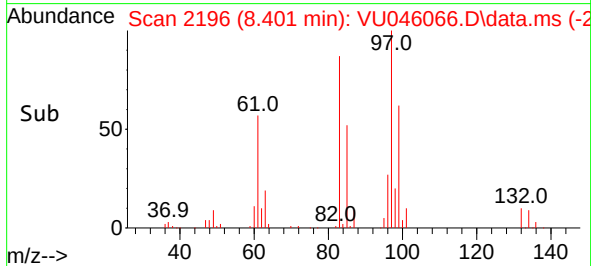


#45  
1,1,2-Trichloroethane  
Concen: 49.557 ug/L  
RT: 8.401 min Scan# 2196  
Delta R.T. -0.003 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

Instrument :  
MSVOA\_U  
ClientSampleId :

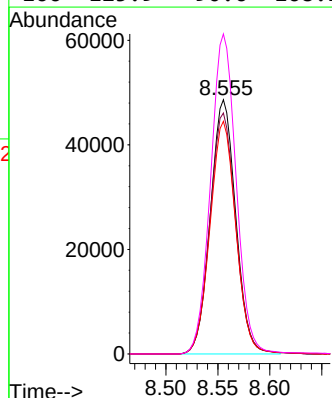
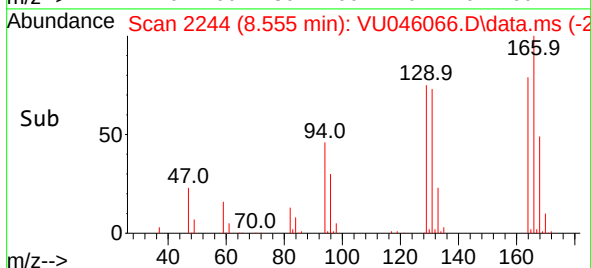
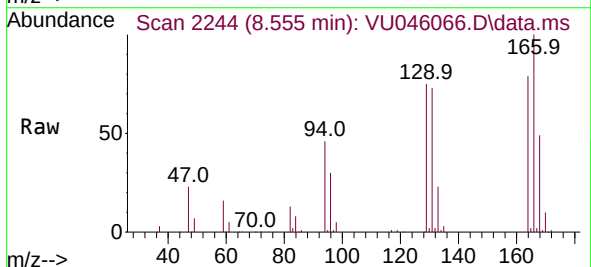


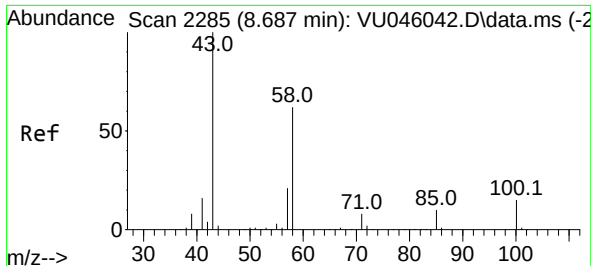
|             |              |
|-------------|--------------|
| Tgt Ion: 97 | Resp: 104504 |
| Ion Ratio   | Lower Upper  |
| 97 100      |              |
| 99 62.1     | 44.7 82.9    |
| 83 86.6     | 60.2 111.8   |
| 85 52.4     | 39.3 73.1    |



#46  
Tetrachloroethene  
Concen: 53.118 ug/L  
RT: 8.555 min Scan# 2244  
Delta R.T. 0.000 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

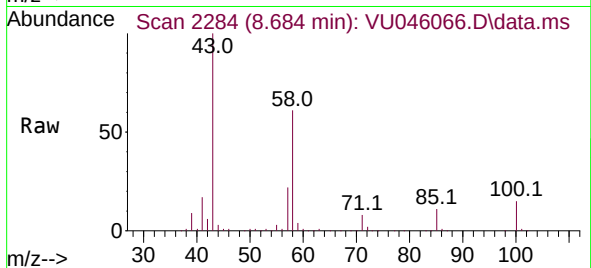
|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:164 | Resp: | 82513 |
| Ion | Ratio   | Lower | Upper |
| 164 | 100     |       |       |
| 129 | 94.8    | 71.1  | 132.1 |
| 131 | 91.5    | 67.8  | 126.0 |
| 166 | 125.9   | 90.6  | 168.2 |



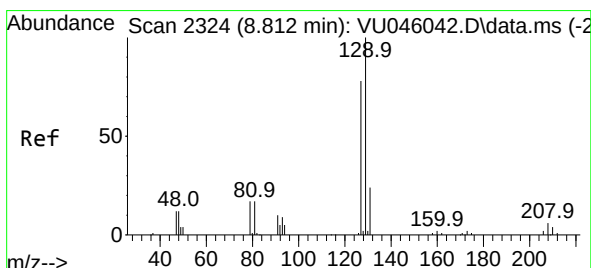
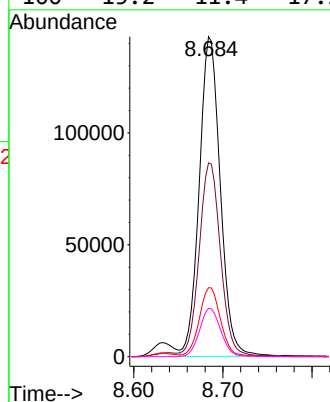
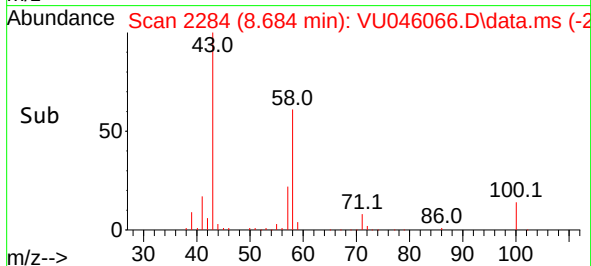


#48  
2-Hexanone  
Concen: 84.860 ug/L  
RT: 8.684 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

Instrument :  
MSVOA\_U  
ClientSampleId :

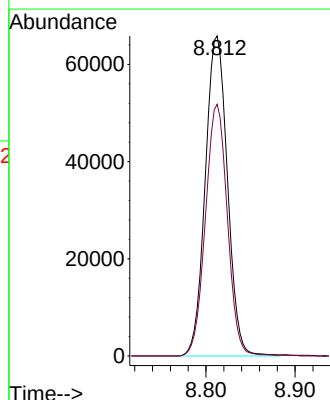
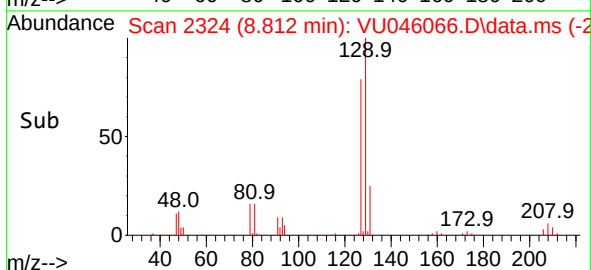
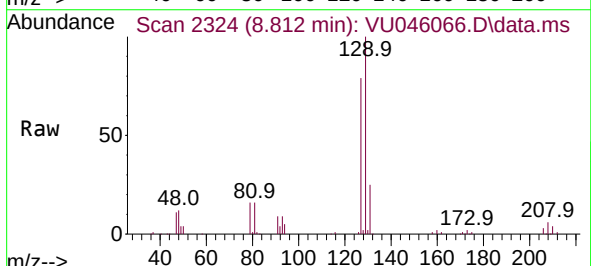


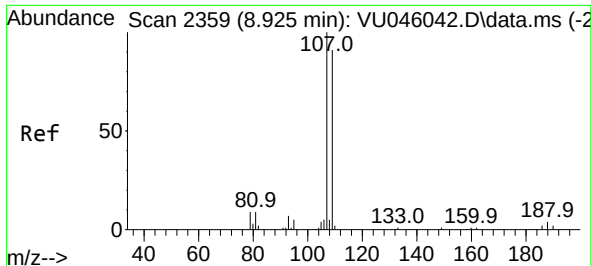
| Tgt Ion: | 43     | 58   | 57   | 100  |
|----------|--------|------|------|------|
| Resp:    | 234372 | 61.0 | 21.9 | 15.2 |
| Lower    |        | 47.4 | 16.6 | 11.4 |
| Upper    |        | 71.2 | 25.0 | 17.2 |



#49  
Dibromochloromethane  
Concen: 51.434 ug/L  
RT: 8.812 min Scan# 2324  
Delta R.T. 0.000 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

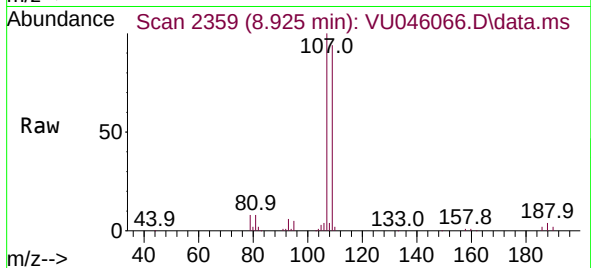
| Tgt Ion: | 129    | 127   |
|----------|--------|-------|
| Resp:    | 113898 | 78.7  |
| Lower    |        | 55.6  |
| Upper    |        | 103.4 |



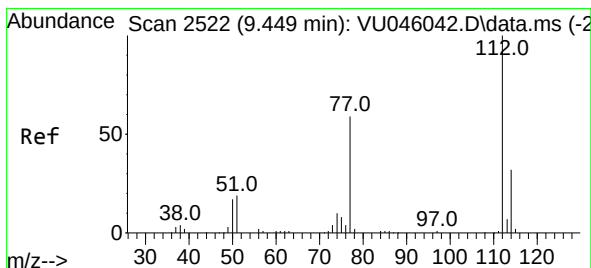
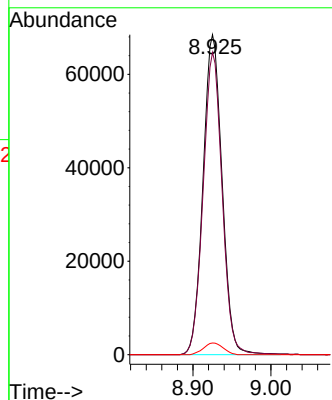
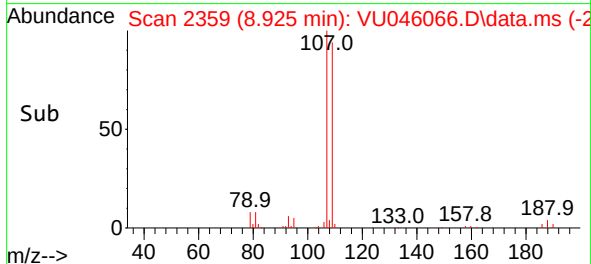


#50  
1,2-Dibromoethane  
Concen: 50.841 ug/L  
RT: 8.925 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

Instrument :  
MSVOA\_U  
ClientSampleId :

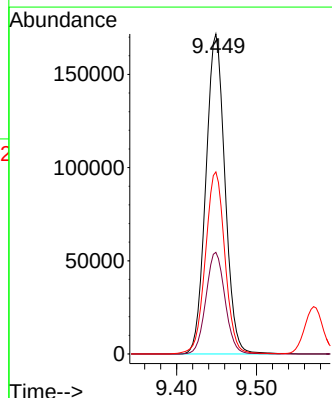
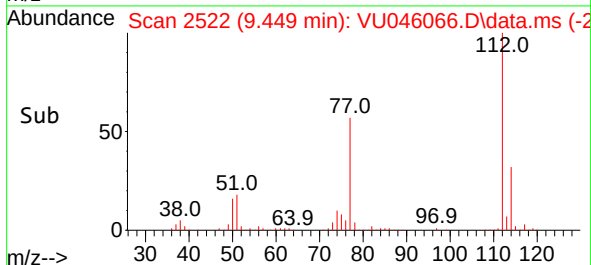
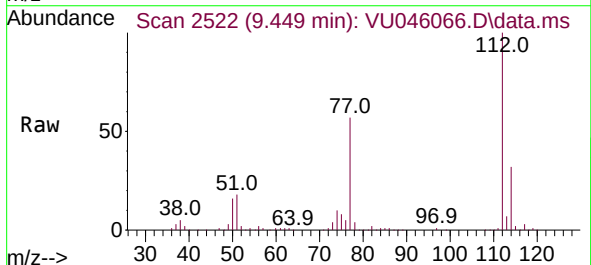


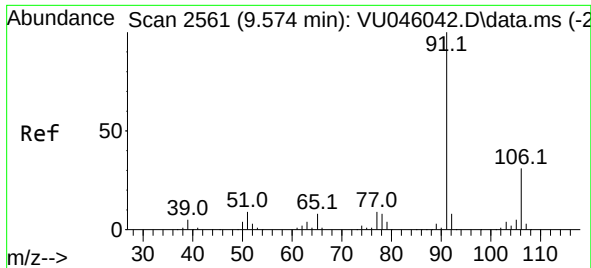
Tgt Ion:107 Resp: 116236  
Ion Ratio Lower Upper  
107 100  
109 94.5 64.9 120.5  
188 3.7 2.6 3.8



#51  
Chlorobenzene  
Concen: 51.295 ug/L  
RT: 9.449 min Scan# 2522  
Delta R.T. 0.000 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

Tgt Ion:112 Resp: 285723  
Ion Ratio Lower Upper  
112 100  
114 31.8 22.2 41.2  
77 56.9 47.4 71.0

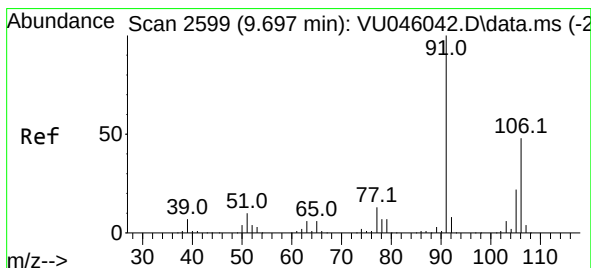
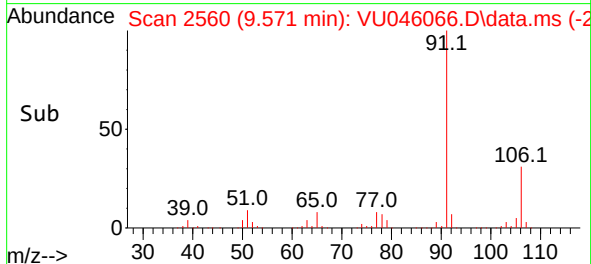
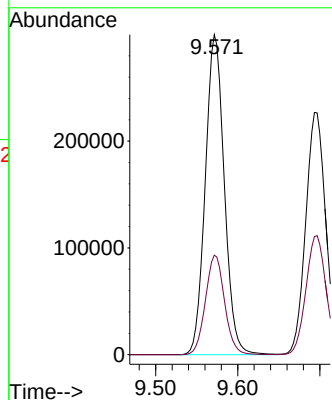
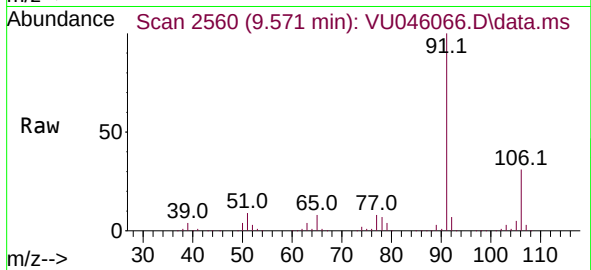




#52  
Ethylbenzene  
Concen: 52.035 ug/L  
RT: 9.571 min Scan# 2561  
Delta R.T. -0.003 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

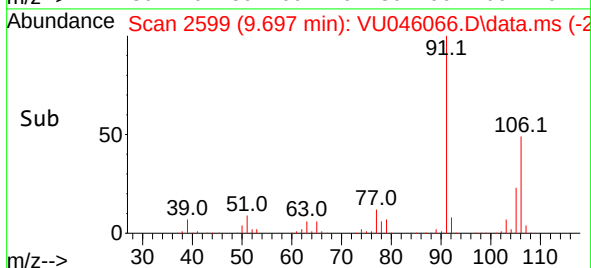
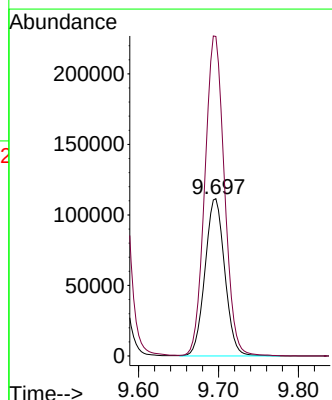
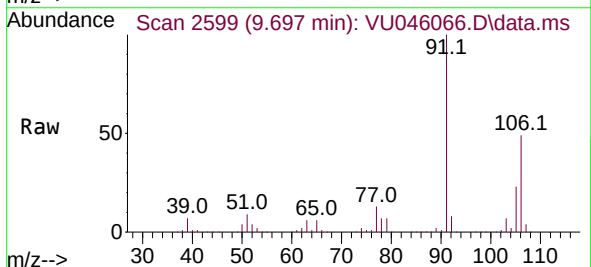
Instrument :  
MSVOA\_U  
ClientSampleId :

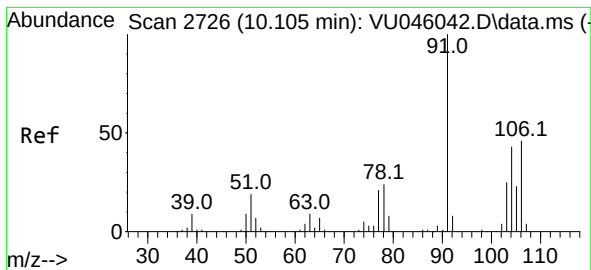
Tgt Ion: 91 Resp: 482159  
Ion Ratio Lower Upper  
91 100  
106 31.1 21.1 39.3



#53  
m,p-Xylene  
Concen: 53.003 ug/L  
RT: 9.697 min Scan# 2599  
Delta R.T. 0.000 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

Tgt Ion:106 Resp: 191532  
Ion Ratio Lower Upper  
106 100  
91 203.1 144.3 268.1





#54

o-xylene

Concen: 52.753 ug/L

RT: 10.102 min Scan# 2725

Delta R.T. -0.003 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

Instrument :

MSVOA\_U

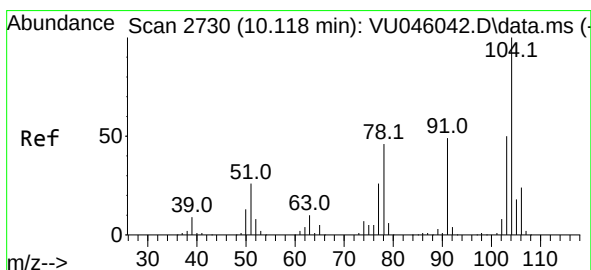
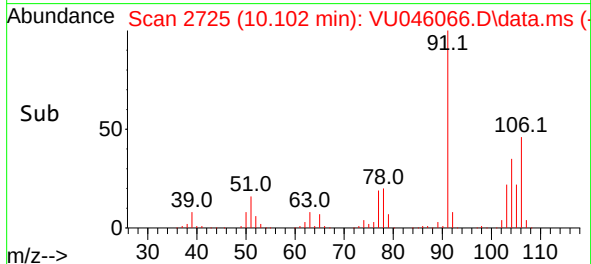
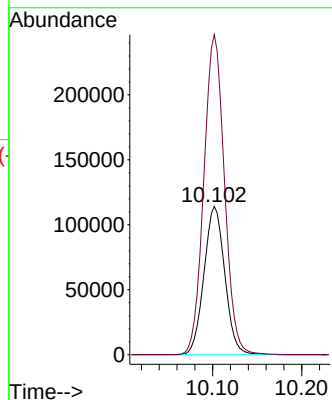
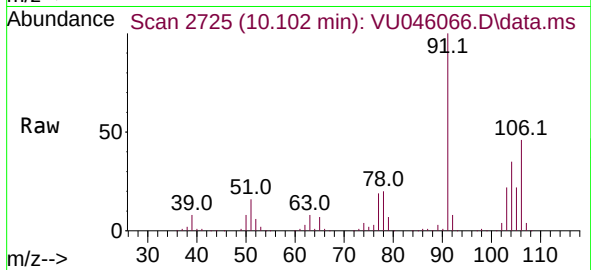
ClientSampleId :

Tgt Ion:106 Resp: 184973

Ion Ratio Lower Upper

106 100

91 215.8 154.2 286.4



#55

Styrene

Concen: 53.018 ug/L

RT: 10.115 min Scan# 2729

Delta R.T. -0.003 min

Lab File: VU046066.D

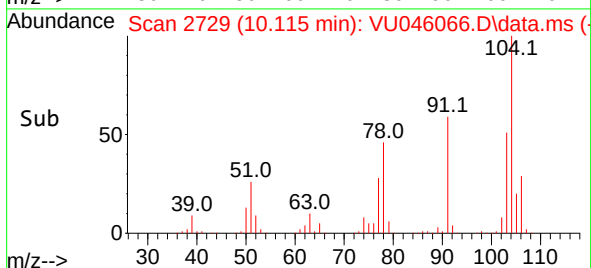
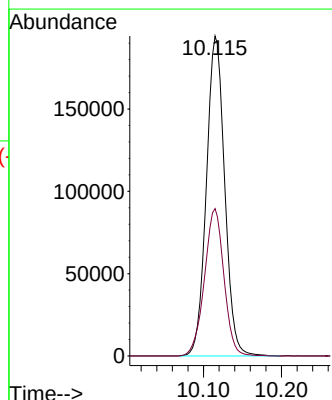
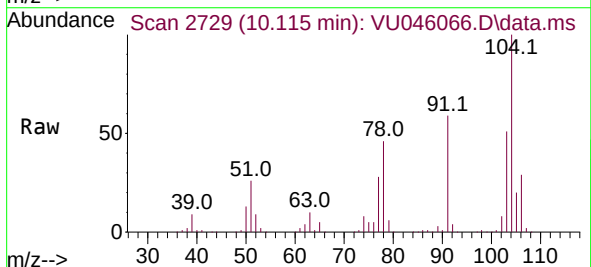
Acq: 02 Dec 2021 20:27

Tgt Ion:104 Resp: 317392

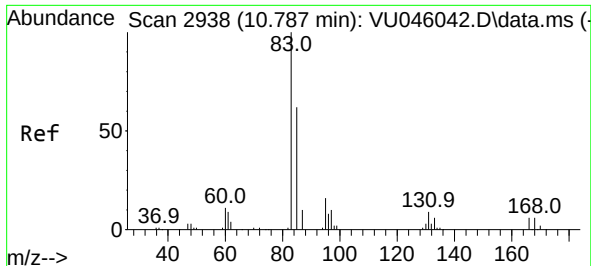
Ion Ratio Lower Upper

104 100

78 46.0 32.6 60.5







#57

1,1,2,2-Tetrachloroethane

Concen: 45.242 ug/L

RT: 10.783 min Scan# 2937

Delta R.T. -0.003 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

Instrument :

MSVOA\_U

ClientSampleId :

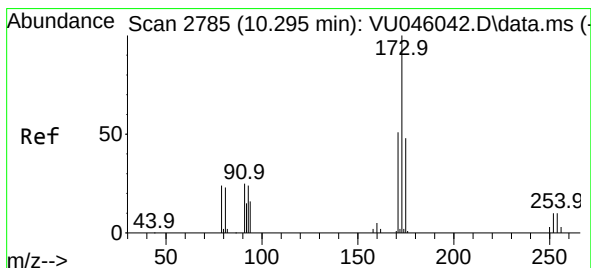
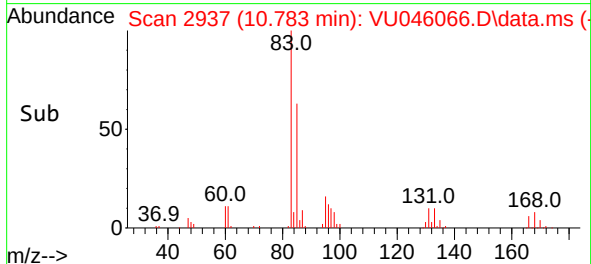
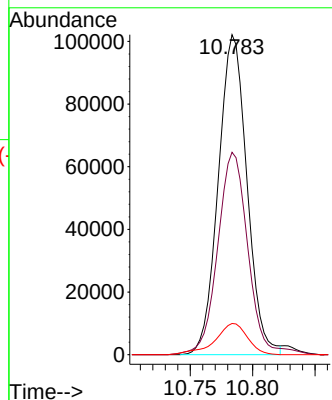
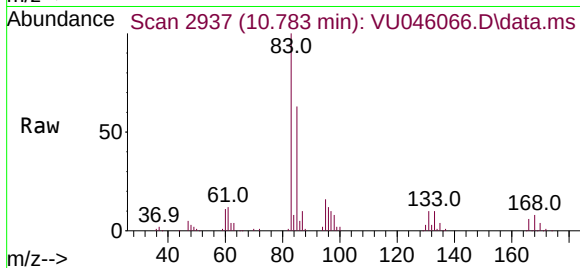
Tgt Ion: 83 Resp: 163564

Ion Ratio Lower Upper

83 100

85 63.3 45.6 84.6

131 9.8 7.8 11.6



#59

Bromoform

Concen: 51.212 ug/L

RT: 10.292 min Scan# 2784

Delta R.T. -0.003 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

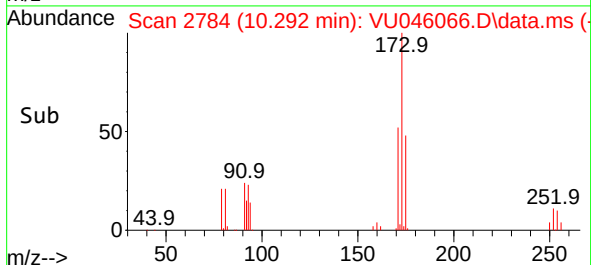
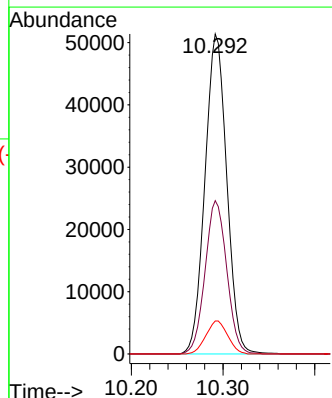
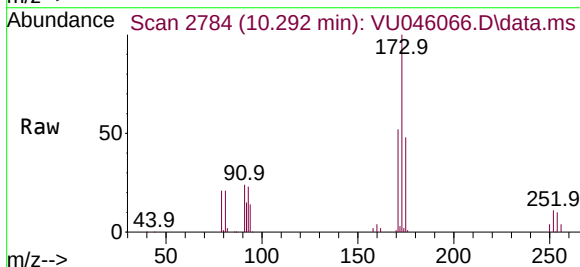
Tgt Ion:173 Resp: 84806

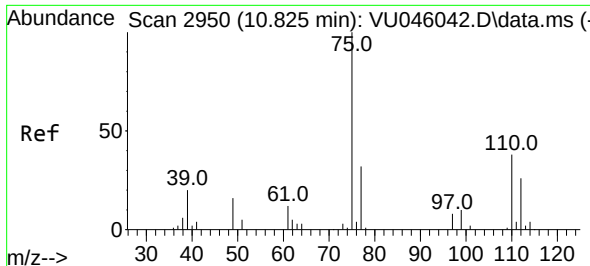
Ion Ratio Lower Upper

173 100

175 47.6 39.2 58.8

254 10.3 7.4 11.2

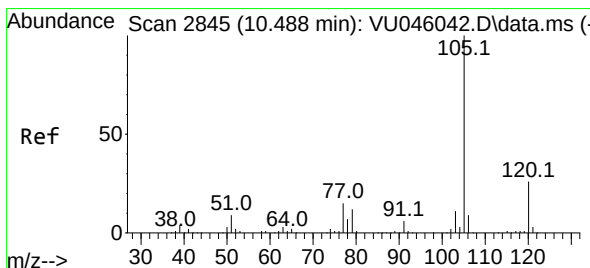
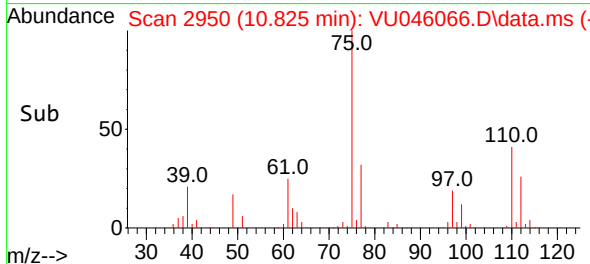
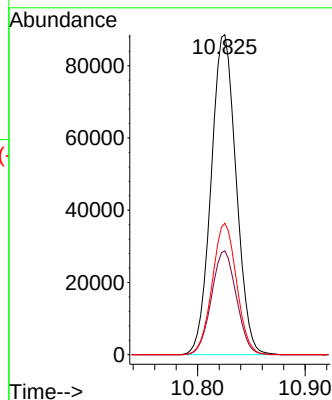
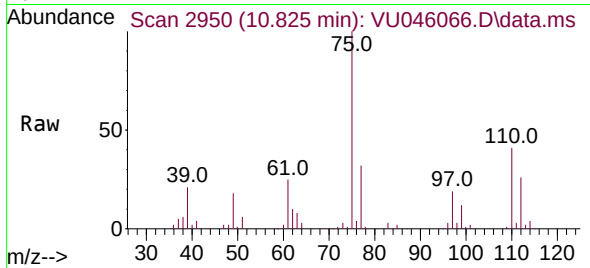




#60  
1,2,3-Trichloropropane  
Concen: 46.281 ug/L  
RT: 10.825 min Scan# 2950  
Delta R.T. 0.000 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

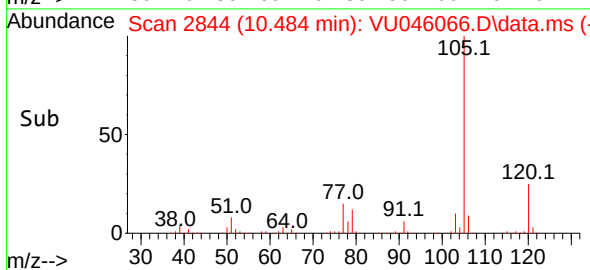
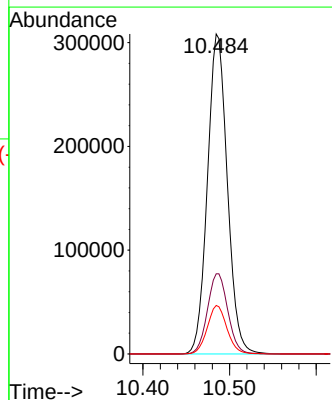
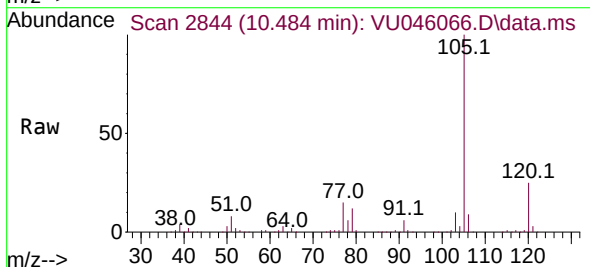
Instrument :  
MSVOA\_U  
ClientSampleId :

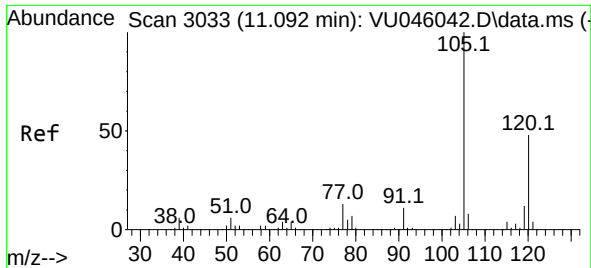
Tgt Ion: 75 Resp: 143211  
Ion Ratio Lower Upper  
75 100  
77 32.5 26.4 39.6  
110 40.1 32.4 48.6



#61  
Isopropylbenzene  
Concen: 53.510 ug/L  
RT: 10.484 min Scan# 2844  
Delta R.T. -0.003 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

Tgt Ion: 105 Resp: 491469  
Ion Ratio Lower Upper  
105 100  
120 25.6 20.7 31.1  
77 15.0 12.2 18.4





#62

1,3,5-Trimethylbenzene

Concen: 54.904 ug/L

RT: 11.089 min Scan# 3033

Delta R.T. -0.003 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

Instrument :

MSVOA\_U

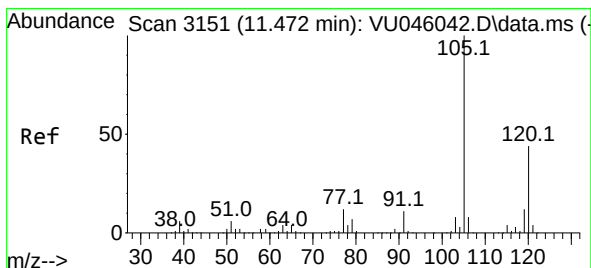
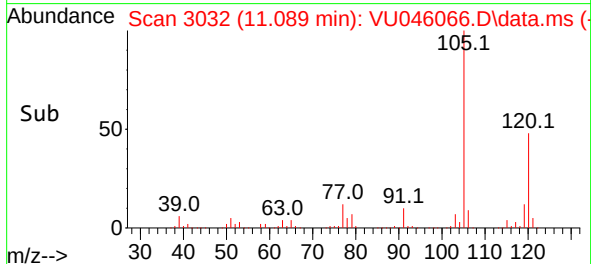
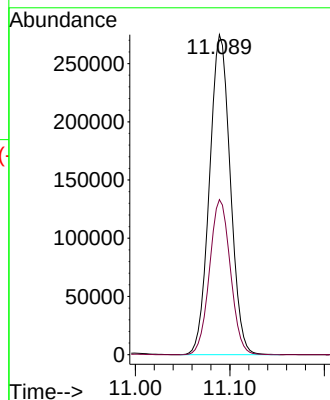
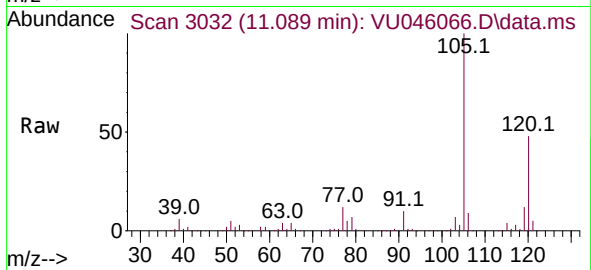
ClientSampleId :

Tgt Ion:105 Resp: 420317

Ion Ratio Lower Upper

105 100

120 48.6 37.8 56.6



#63

1,2,4-Trimethylbenzene

Concen: 55.242 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. -0.003 min

Lab File: VU046066.D

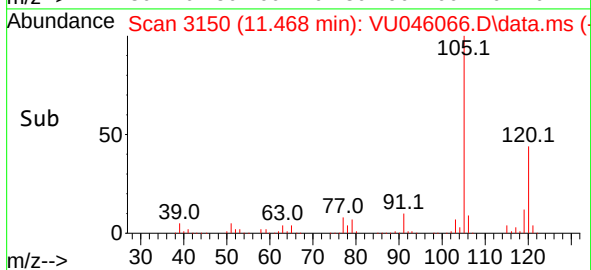
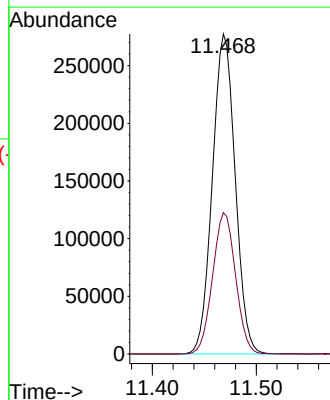
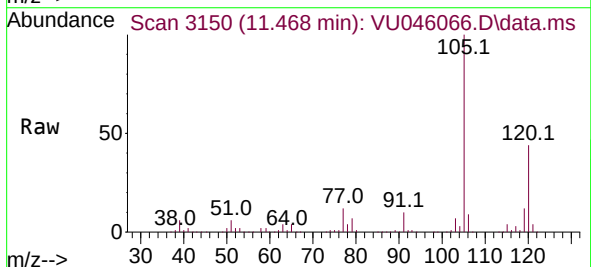
Acq: 02 Dec 2021 20:27

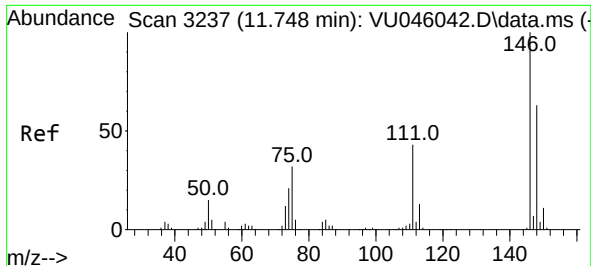
Tgt Ion:105 Resp: 423106

Ion Ratio Lower Upper

105 100

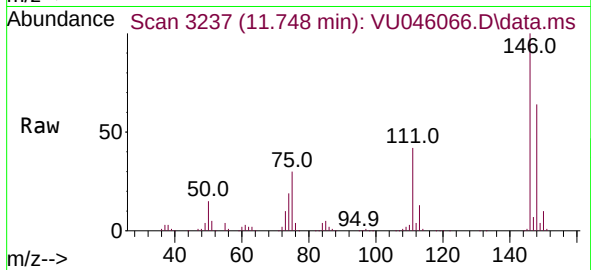
120 44.4 35.2 52.8



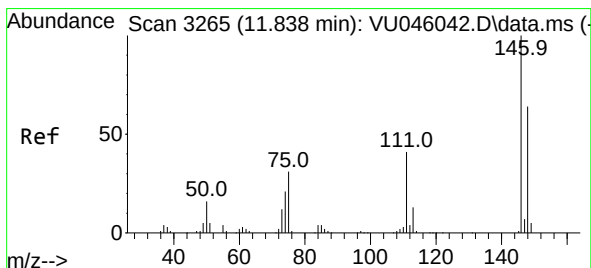
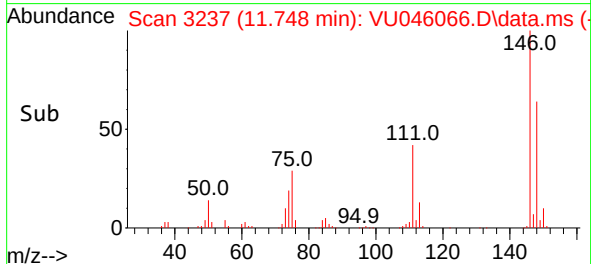
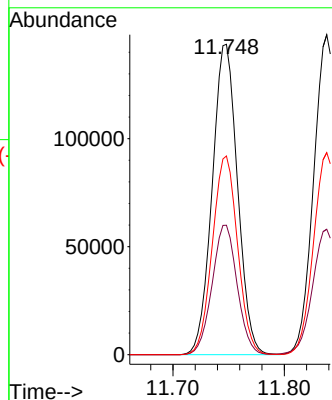


#64  
1,3-Dichlorobenzene  
Concen: 52.072 ug/L  
RT: 11.748 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

Instrument :  
MSVOA\_U  
ClientSampleId :

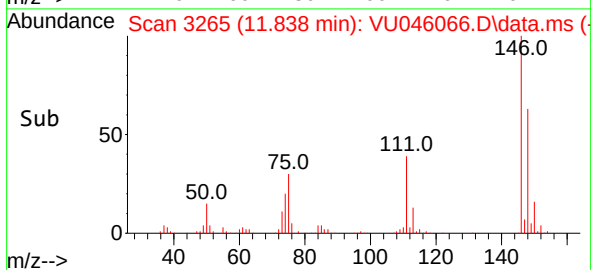
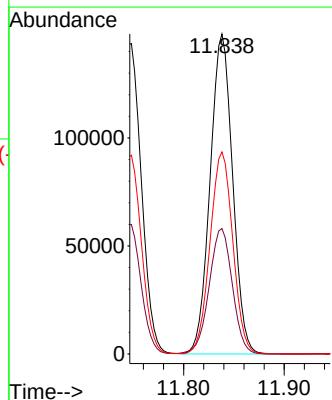
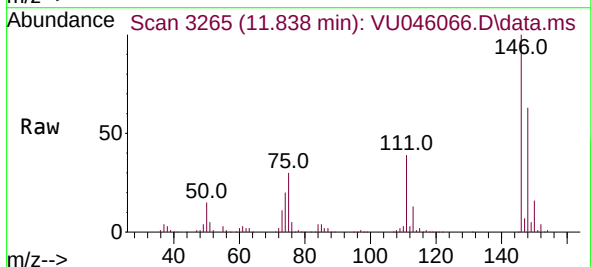


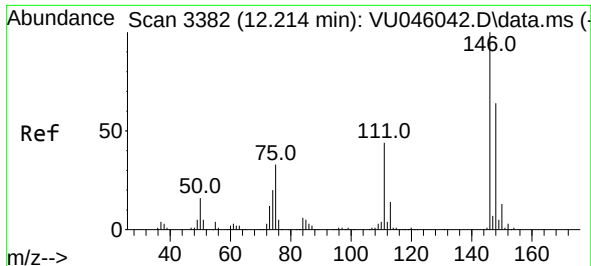
Tgt Ion:146 Resp: 227178  
Ion Ratio Lower Upper  
146 100  
111 41.7 29.5 54.9  
148 64.0 45.9 85.3



#65  
1,4-Dichlorobenzene  
Concen: 51.061 ug/L  
RT: 11.838 min Scan# 3265  
Delta R.T. 0.000 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

Tgt Ion:146 Resp: 230232  
Ion Ratio Lower Upper  
146 100  
111 39.2 28.3 52.7  
148 63.2 43.8 81.3





#67

1,2-Dichlorobenzene

Concen: 50.397 ug/L

RT: 12.214 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

Instrument :

MSVOA\_U

ClientSampleId :

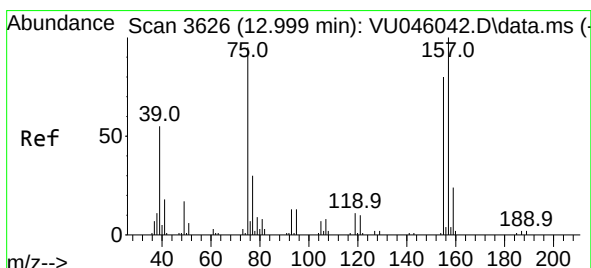
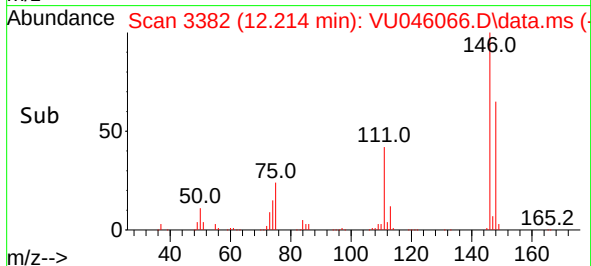
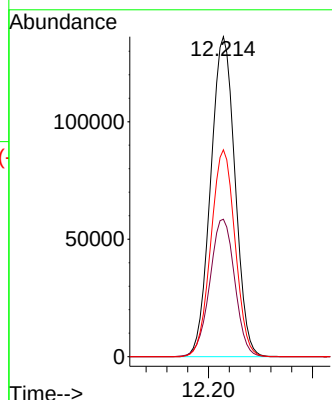
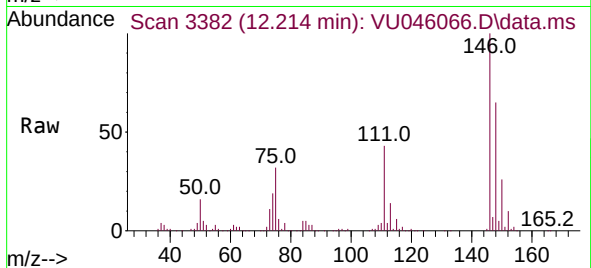
Tgt Ion:146 Resp: 221418

Ion Ratio Lower Upper

146 100

111 42.9 35.7 53.5

148 64.6 51.2 76.8



#68

1,2-Dibromo-3-chloropropane

Concen: 49.799 ug/L

RT: 12.996 min Scan# 3625

Delta R.T. -0.003 min

Lab File: VU046066.D

Acq: 02 Dec 2021 20:27

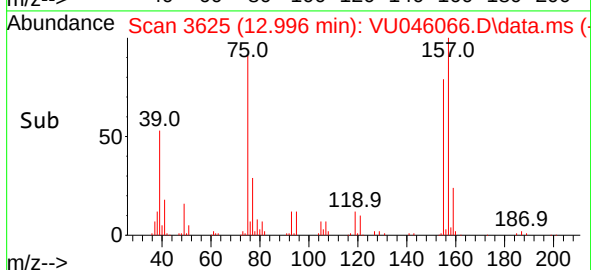
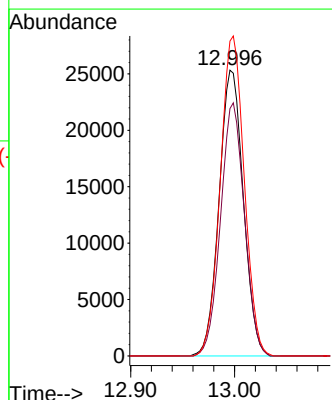
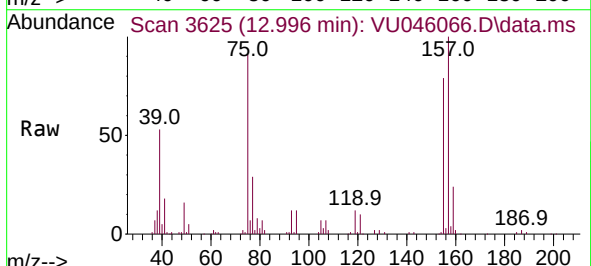
Tgt Ion: 75 Resp: 41052

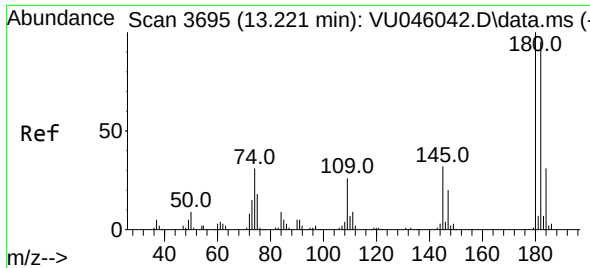
Ion Ratio Lower Upper

75 100

155 86.6 64.9 97.3

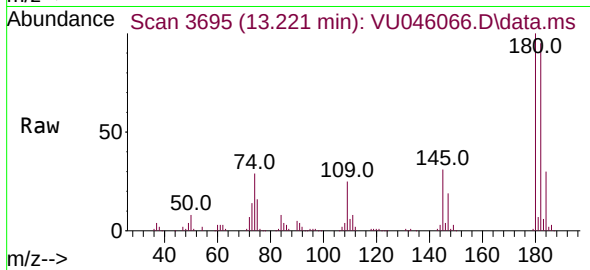
157 110.2 81.9 122.9



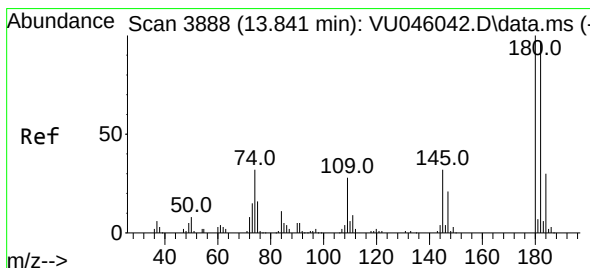
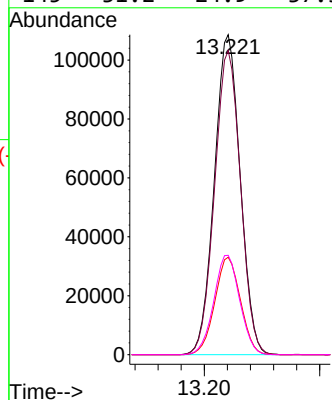
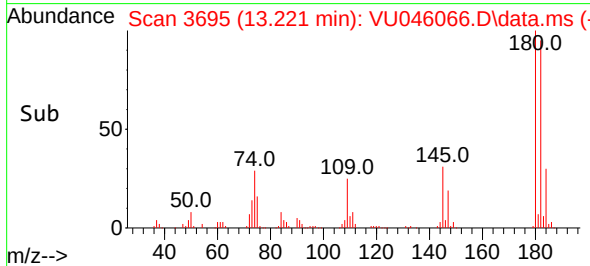


#69  
 1,3,5-Trichlorobenzene  
 Concen: 53.119 ug/L  
 RT: 13.221 min Scan# 3695  
 Delta R.T. 0.000 min  
 Lab File: VU046066.D  
 Acq: 02 Dec 2021 20:27

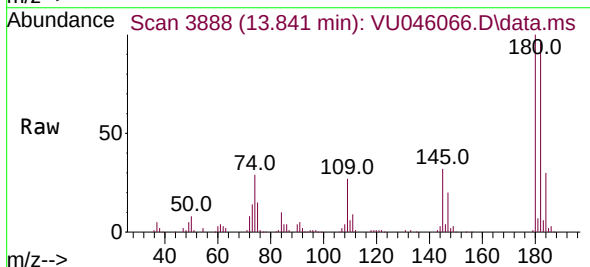
Instrument :  
 MSVOA\_U  
 ClientSampleId :



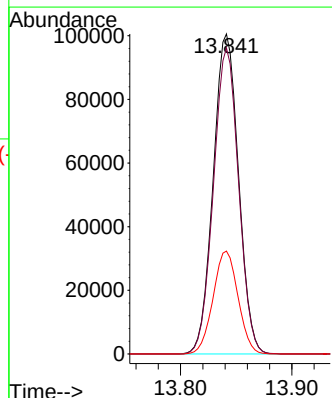
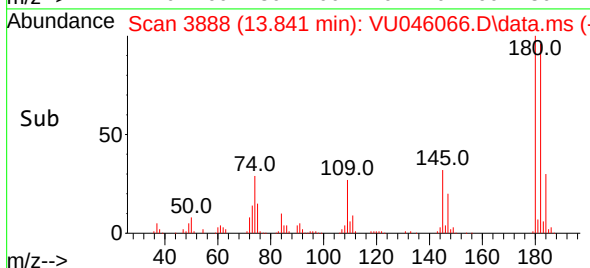
Tgt Ion:180 Resp: 168860  
 Ion Ratio Lower Upper  
 180 100  
 182 95.3 75.9 113.9  
 184 30.2 24.2 36.4  
 145 31.2 24.9 37.3

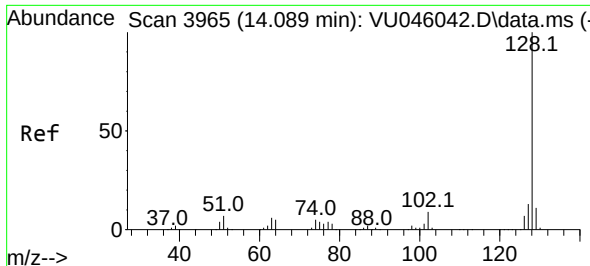


#70  
 1,2,4-trichlorobenzene  
 Concen: 56.289 ug/L  
 RT: 13.841 min Scan# 3888  
 Delta R.T. 0.000 min  
 Lab File: VU046066.D  
 Acq: 02 Dec 2021 20:27



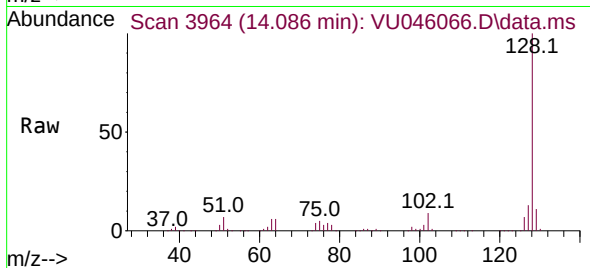
Tgt Ion:180 Resp: 158787  
 Ion Ratio Lower Upper  
 180 100  
 182 94.8 76.7 115.1  
 145 31.7 26.0 39.0



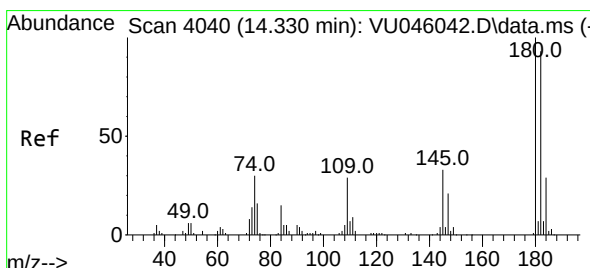
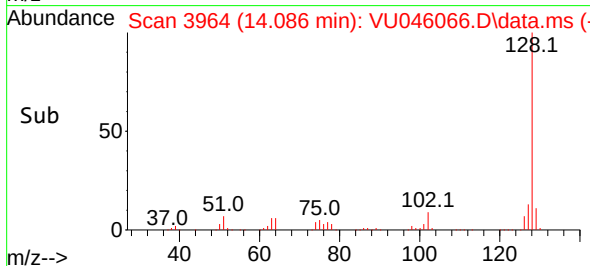
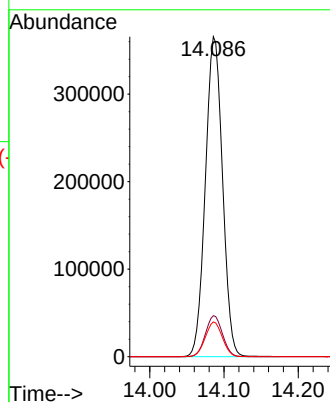


#71  
Naphthalene  
Concen: 59.643 ug/L  
RT: 14.086 min Scan# 3965  
Delta R.T. -0.003 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

Instrument :  
MSVOA\_U  
ClientSampleId :



Tgt Ion:128 Resp: 585476  
Ion Ratio Lower Upper  
128 100  
127 12.7 10.1 15.1  
129 10.8 8.6 13.0



#72  
1,2,3-Trichlorobenzene  
Concen: 55.894 ug/L  
RT: 14.330 min Scan# 4040  
Delta R.T. 0.000 min  
Lab File: VU046066.D  
Acq: 02 Dec 2021 20:27

Tgt Ion:180 Resp: 160785  
Ion Ratio Lower Upper  
180 100  
182 95.9 76.0 114.0  
145 33.2 27.3 40.9

