

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU110121\  
 Data File : VU045485.D  
 Acq On : 01 Nov 2021 13:07  
 Operator : SY/MD  
 Sample : MDL04  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL04

Quant Time: Nov 02 02:46:01 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM102821WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Nov 02 02:33:37 2021  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.253   | 114   | 304515   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.420   | 117   | 292121   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.816  | 152   | 143388   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.600   | 65    | 100598   | 40.588   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 81.180%  |
| 7) Chloroethane-d5            | 1.916   | 69    | 91587    | 46.111   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 92.220%  |
| 11) 1,1-Dichloroethene-d2     | 2.571   | 63    | 147196   | 33.440   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 66.880%  |
| 21) 2-Butanone-d5             | 4.629   | 46    | 217174   | 104.705  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 104.700% |
| 24) Chloroform-d              | 5.067   | 84    | 204056   | 45.891   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 91.780%  |
| 26) 1,2-Dichloroethane-d4     | 5.706   | 65    | 141414   | 48.094   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 96.180%  |
| 32) Benzene-d6                | 5.732   | 84    | 421805   | 46.724   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 93.440%  |
| 36) 1,2-Dichloropropane-d6    | 6.694   | 67    | 139835   | 47.852   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 95.700%  |
| 41) Toluene-d8                | 7.899   | 98    | 368461   | 46.786   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 93.580%  |
| 43) trans-1,3-Dichloroprop... | 8.182   | 79    | 64181    | 46.746   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 93.500%  |
| 47) 2-Hexanone-d5             | 8.632   | 63    | 153959   | 98.702   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 98.700%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 208878   | 47.631   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 95.260%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.195  | 152   | 139783   | 48.186   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 96.380%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385   | 85    | 6164     | 2.291    | ug/L   | 99       |
| 3) Chloromethane              | 1.520   | 50    | 8186     | 2.520    | ug/L   | 100      |
| 5) Vinyl chloride             | 1.607   | 62    | 7827     | 2.562    | ug/L   | 83       |
| 6) Bromomethane               | 1.861   | 94    | 4265     | 2.713    | ug/L   | 91       |
| 8) Chloroethane               | 1.935   | 64    | 5057     | 2.803    | ug/L   | 94       |
| 9) Trichlorofluoromethane     | 2.144   | 101   | 8982     | 2.485    | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.584   | 101   | 6357     | 2.886    | ug/L # | 85       |
| 12) 1,1-Dichloroethene        | 2.584   | 96    | 6086     | 2.928    | ug/L # | 1        |
| 13) Acetone                   | 2.642   | 43    | 9084     | 5.340    | ug/L   | 97       |
| 14) Carbon disulfide          | 2.797   | 76    | 14726    | 2.478    | ug/L   | 99       |
| 15) Methyl Acetate            | 2.957   | 43    | 7998     | 2.783    | ug/L   | 96       |
| 16) Methylene chloride        | 3.051   | 84    | 7016     | 2.735    | ug/L   | 97       |
| 17) trans-1,2-Dichloroethene  | 3.359   | 96    | 5540     | 2.491    | ug/L   | 92       |
| 18) Methyl tert-butyl Ether   | 3.369   | 73    | 19298    | 2.475    | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.877   | 63    | 11225    | 2.533    | ug/L   | 95       |
| 20) cis-1,2-Dichloroethene    | 4.668   | 96    | 6330     | 2.495    | ug/L   | 95       |
| 22) 2-Butanone                | 4.716   | 43    | 11145    | 4.797    | ug/L   | 100      |
| 23) Bromochloromethane        | 4.980   | 128   | 3075     | 2.518    | ug/L   | 97       |
| 25) Chloroform                | 5.096   | 83    | 12037    | 2.714    | ug/L   | 97       |

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 Sample : MDL04  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL04

Quant Time: Nov 02 02:46:01 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM102821WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Nov 02 02:33:37 2021  
 Response via : Initial Calibration

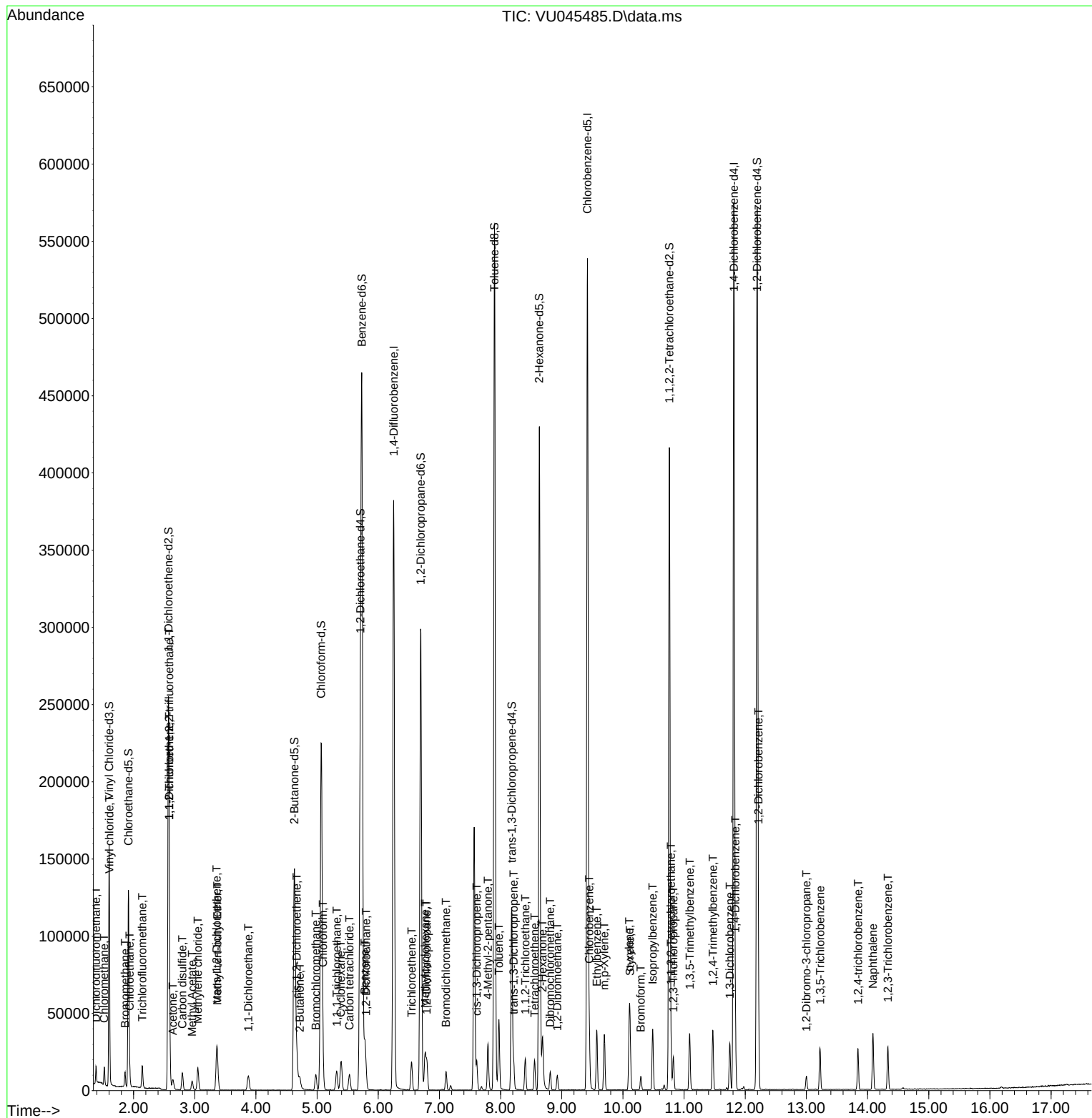
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.800  | 62   | 9792     | 2.699 | ug/L   | 99       |
| 29) Cyclohexane               | 5.391  | 56   | 9736     | 2.325 | ug/L   | 97       |
| 30) 1,1,1-Trichloroethane     | 5.321  | 97   | 9077     | 2.447 | ug/L # | 85       |
| 31) Carbon tetrachloride      | 5.530  | 117  | 6906     | 2.355 | ug/L   | 100      |
| 33) Benzene                   | 5.777  | 78   | 24836    | 2.451 | ug/L   | 100      |
| 34) Trichloroethene           | 6.546  | 95   | 6047     | 2.486 | ug/L   | 94       |
| 35) Methylcyclohexane         | 6.767  | 83   | 9655     | 2.284 | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.793  | 63   | 6410     | 2.383 | ug/L # | 92       |
| 38) Bromodichloromethane      | 7.108  | 83   | 8035     | 2.376 | ug/L   | 96       |
| 39) cis-1,3-Dichloropropene   | 7.610  | 75   | 9839     | 2.391 | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone      | 7.793  | 43   | 19327    | 4.868 | ug/L   | 99       |
| 42) Toluene                   | 7.973  | 91   | 31154    | 2.955 | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene | 8.214  | 75   | 10133    | 2.611 | ug/L   | 87       |
| 45) 1,1,2-Trichloroethane     | 8.404  | 97   | 6091     | 2.438 | ug/L   | 92       |
| 46) Tetrachloroethene         | 8.558  | 164  | 4038     | 2.340 | ug/L   | 95       |
| 48) 2-Hexanone                | 8.687  | 43   | 19629    | 5.936 | ug/L   | 98       |
| 49) Dibromochloromethane      | 8.812  | 129  | 6011     | 2.497 | ug/L   | 94       |
| 50) 1,2-Dibromoethane         | 8.928  | 107  | 6467     | 2.467 | ug/L # | 97       |
| 51) Chlorobenzene             | 9.449  | 112  | 16223    | 2.546 | ug/L   | 97       |
| 52) Ethylbenzene              | 9.574  | 91   | 27519    | 2.461 | ug/L   | 96       |
| 53) m,p-Xylene                | 9.697  | 106  | 10384    | 2.426 | ug/L   | 97       |
| 54) o-xylene                  | 10.102 | 106  | 9622     | 2.270 | ug/L   | 95       |
| 55) Styrene                   | 10.118 | 104  | 15902    | 2.233 | ug/L   | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.787 | 83   | 11558    | 2.604 | ug/L   | 96       |
| 59) Bromoform                 | 10.291 | 173  | 3884     | 2.349 | ug/L # | 98       |
| 60) 1,2,3-Trichloropropane    | 10.825 | 75   | 9322     | 2.640 | ug/L   | 96       |
| 61) Isopropylbenzene          | 10.488 | 105  | 25553    | 2.411 | ug/L   | 97       |
| 62) 1,3,5-Trimethylbenzene    | 11.092 | 105  | 20144    | 2.231 | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.471 | 105  | 20691    | 2.255 | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.748 | 146  | 11951    | 2.550 | ug/L   | 95       |
| 65) 1,4-Dichlorobenzene       | 11.838 | 146  | 12153    | 2.563 | ug/L   | 97       |
| 67) 1,2-Dichlorobenzene       | 12.214 | 146  | 12424    | 2.561 | ug/L   | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.999 | 75   | 2453     | 2.379 | ug/L   | 98       |
| 69) 1,3,5-Trichlorobenzene    | 13.224 | 180  | 8450     | 2.444 | ug/L   | 96       |
| 70) 1,2,4-trichlorobenzene    | 13.844 | 180  | 7786     | 2.465 | ug/L   | 98       |
| 71) Naphthalene               | 14.089 | 128  | 28316    | 2.352 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.333 | 180  | 8134     | 2.516 | ug/L   | 98       |

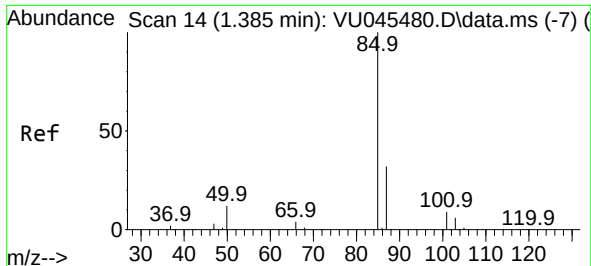
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Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU110121\  
Data File : VU045485.D  
Acq On : 01 Nov 2021 13:07  
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Sample : MDL04  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

Quant Time: Nov 02 02:46:01 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM102821WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Nov 02 02:33:37 2021  
Response via : Initial Calibration

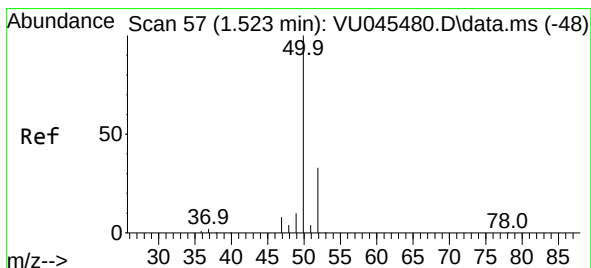
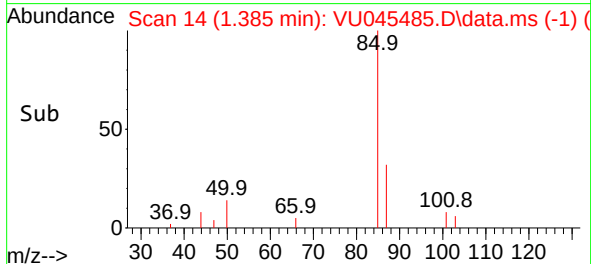
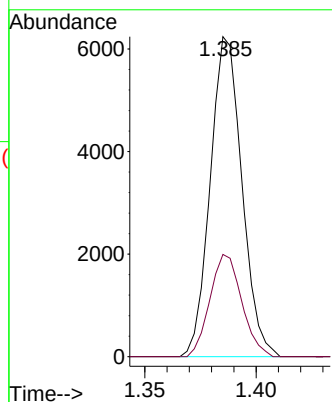
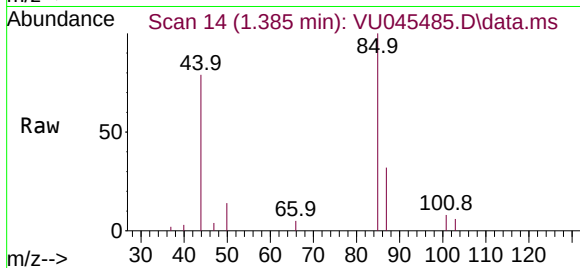




#2  
Dichlorodifluoromethane  
Concen: 2.291 ug/L  
RT: 1.385 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

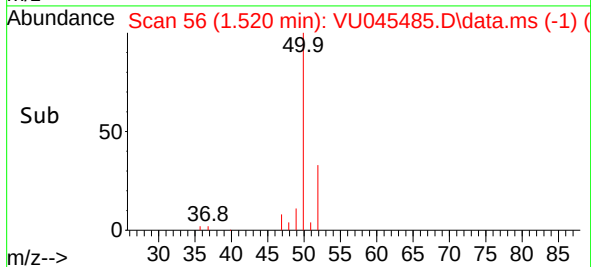
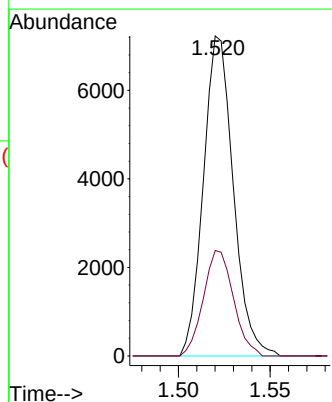
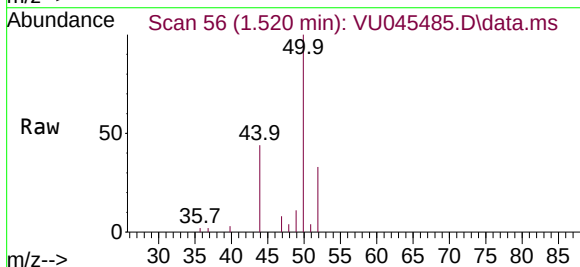
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

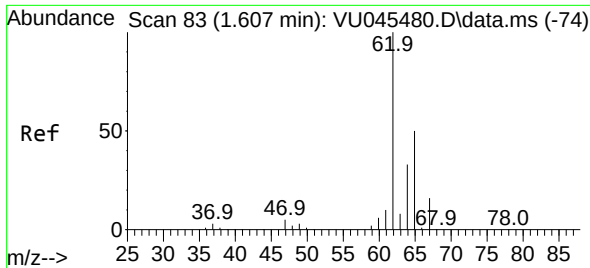
Tgt Ion: 85 Resp: 6164  
Ion Ratio Lower Upper  
85 100  
87 32.1 26.0 39.0



#3  
Chloromethane  
Concen: 2.520 ug/L  
RT: 1.520 min Scan# 56  
Delta R.T. -0.003 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

Tgt Ion: 50 Resp: 8186  
Ion Ratio Lower Upper  
50 100  
52 33.0 23.2 43.2

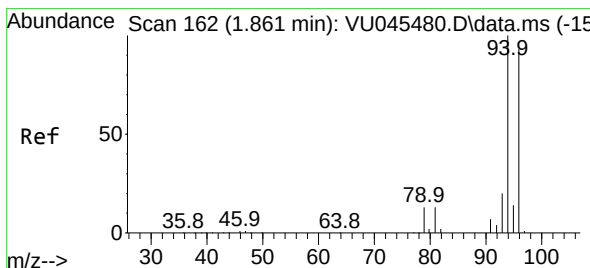
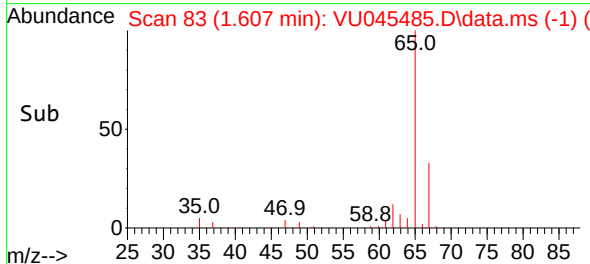
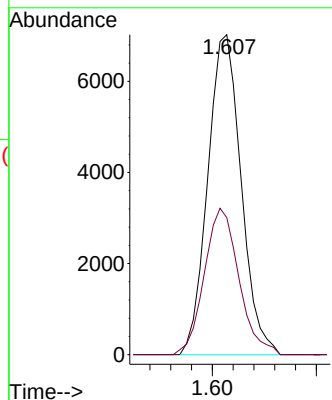
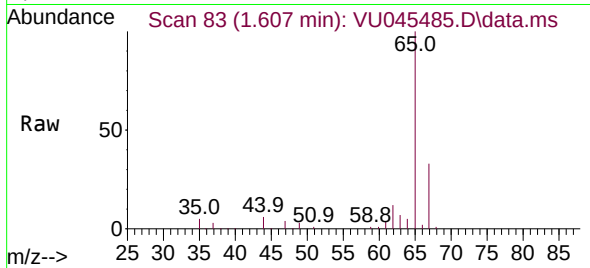




#5  
 Vinyl chloride  
 Concen: 2.562 ug/L  
 RT: 1.607 min Scan# 81  
 Delta R.T. -0.000 min  
 Lab File: VU045485.D  
 Acq: 01 Nov 2021 13:07

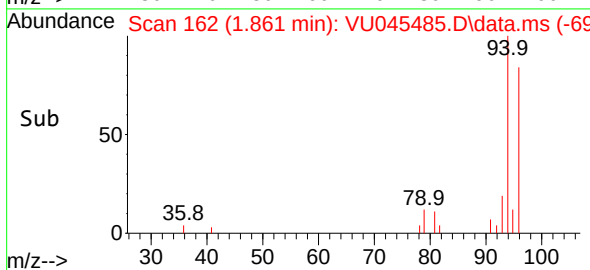
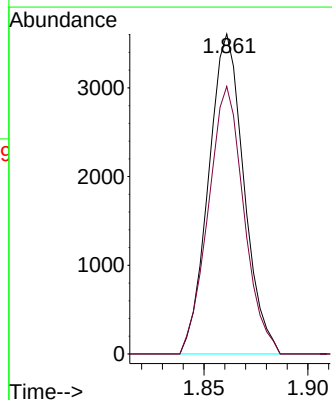
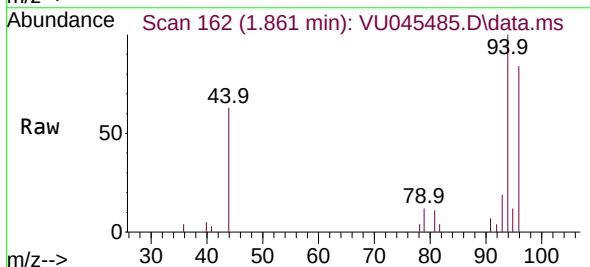
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL04

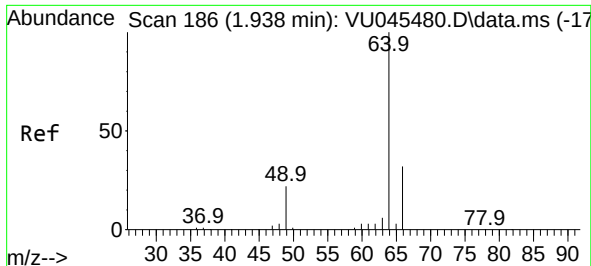
Tgt Ion: 62 Resp: 7827  
 Ion Ratio Lower Upper  
 62 100  
 64 42.9 23.3 43.3



#6  
 Bromomethane  
 Concen: 2.713 ug/L  
 RT: 1.861 min Scan# 162  
 Delta R.T. -0.000 min  
 Lab File: VU045485.D  
 Acq: 01 Nov 2021 13:07

Tgt Ion: 94 Resp: 4265  
 Ion Ratio Lower Upper  
 94 100  
 96 83.6 64.9 120.5

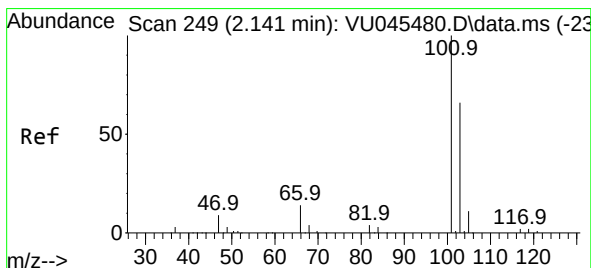
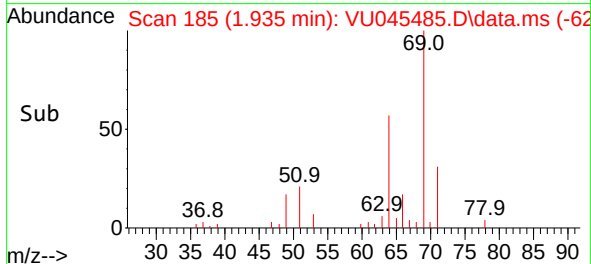
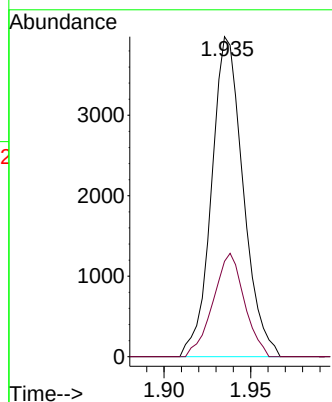
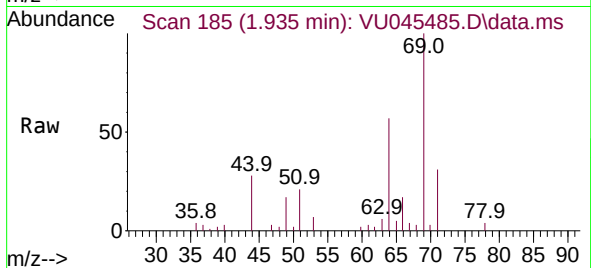




#8  
Chloroethane  
Concen: 2.803 ug/L  
RT: 1.935 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

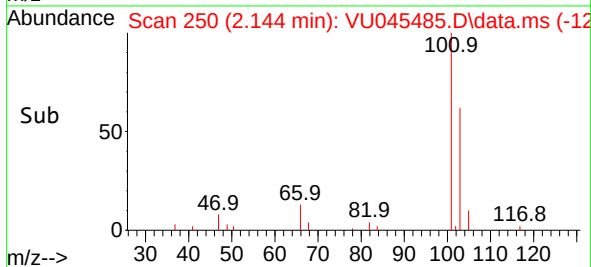
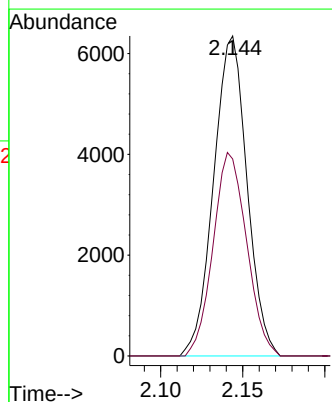
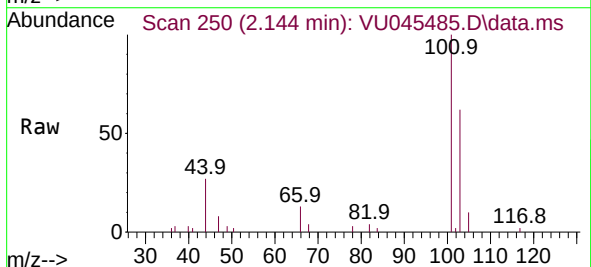
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

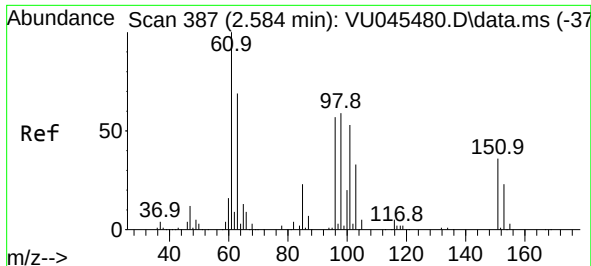
Tgt Ion: 64 Resp: 5057  
Ion Ratio Lower Upper  
64 100  
66 29.8 23.2 43.2



#9  
Trichlorofluoromethane  
Concen: 2.485 ug/L  
RT: 2.144 min Scan# 250  
Delta R.T. 0.003 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

Tgt Ion:101 Resp: 8982  
Ion Ratio Lower Upper  
101 100  
103 63.9 51.4 77.2





#10

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

Concen: 2.886 ug/L

RT: 2.584 min Scan# 387

Delta R.T. -0.000 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

Instrument :

MSVOA\_U

ClientSampleId :

MDL04

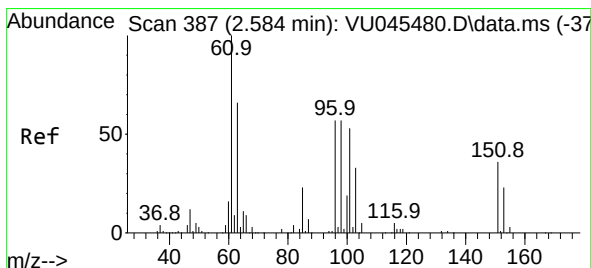
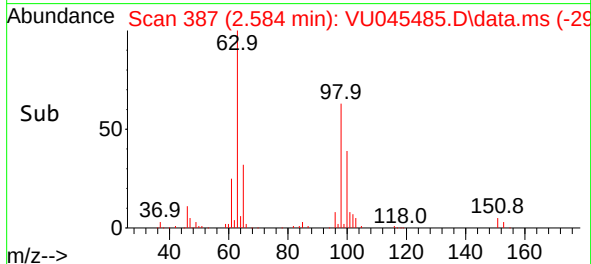
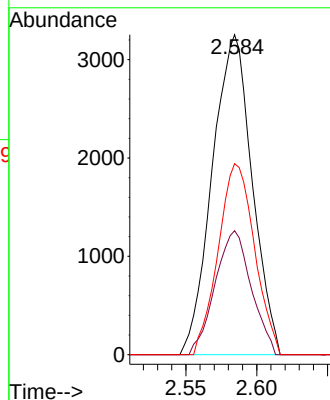
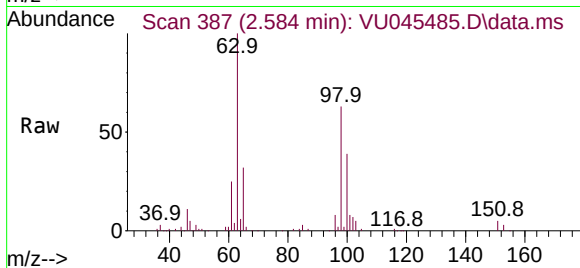
Tgt Ion:101 Resp: 6357

Ion Ratio Lower Upper

101 100

85 35.1 34.8 52.2

151 54.5 54.6 81.8#



#12

1,1-Dichloroethene

Concen: 2.928 ug/L

RT: 2.584 min Scan# 387

Delta R.T. -0.000 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

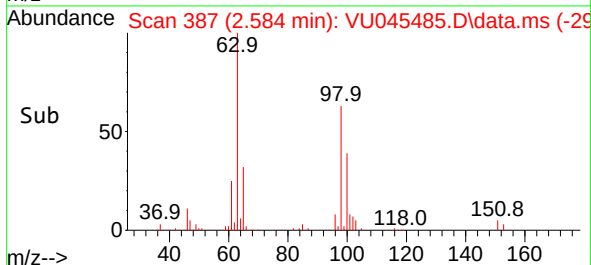
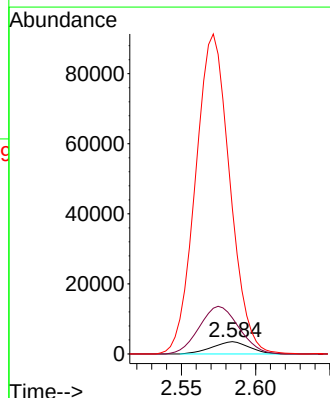
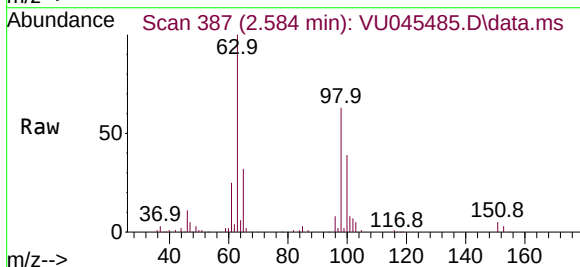
Tgt Ion: 96 Resp: 6086

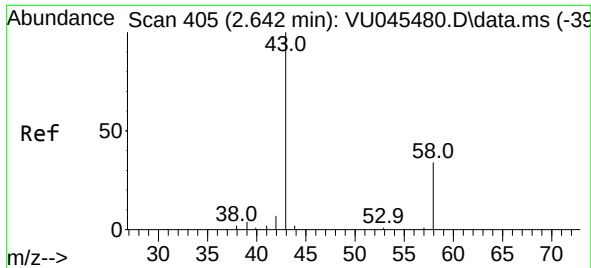
Ion Ratio Lower Upper

96 100

61 292.6 126.3 234.5#

63 1183.5 89.2 165.8#

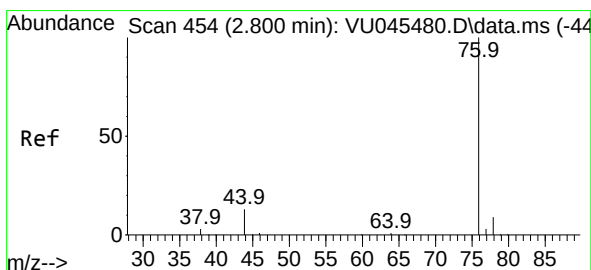
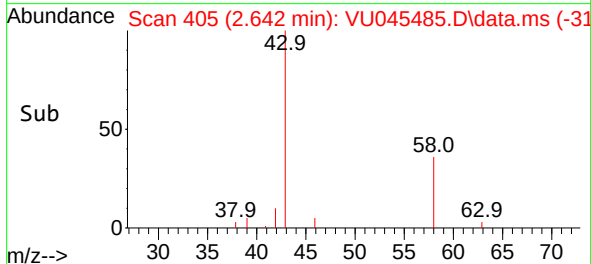
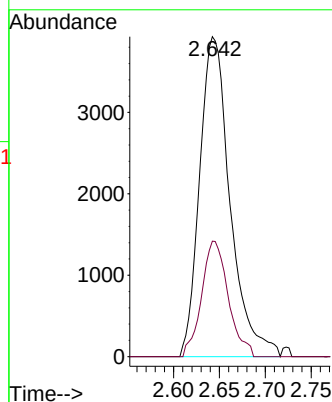
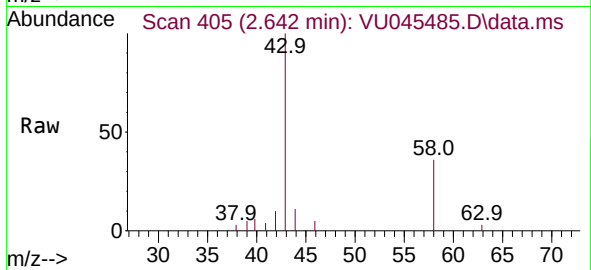




#13  
Acetone  
Concen: 5.340 ug/L  
RT: 2.642 min Scan# 405  
Delta R.T. -0.000 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

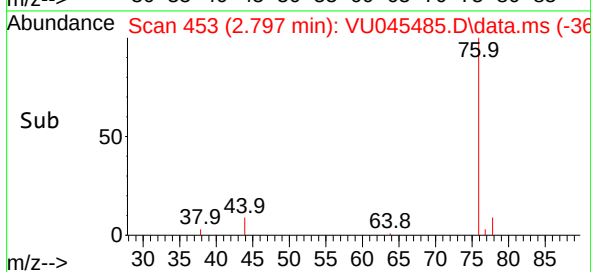
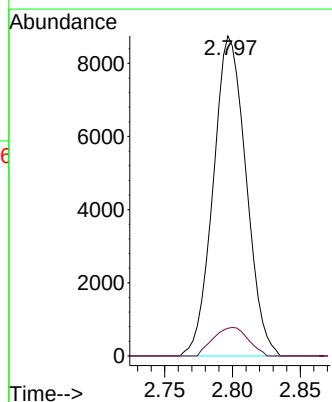
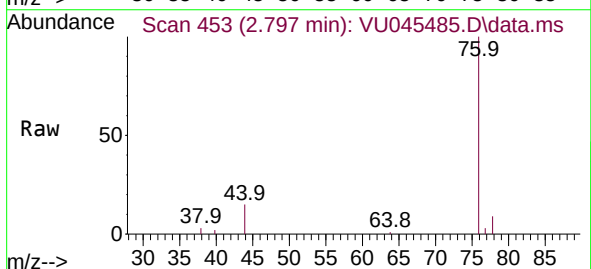
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

Tgt Ion: 43 Resp: 9084  
Ion Ratio Lower Upper  
43 100  
58 31.6 0.0 66.2

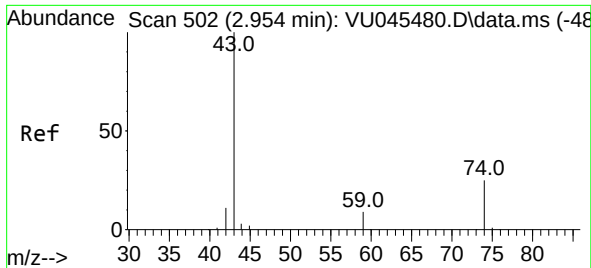


#14  
Carbon disulfide  
Concen: 2.478 ug/L  
RT: 2.797 min Scan# 453  
Delta R.T. -0.003 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

Tgt Ion: 76 Resp: 14726  
Ion Ratio Lower Upper  
76 100  
78 8.7 7.3 10.9



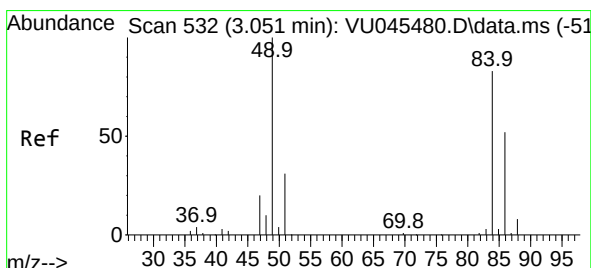
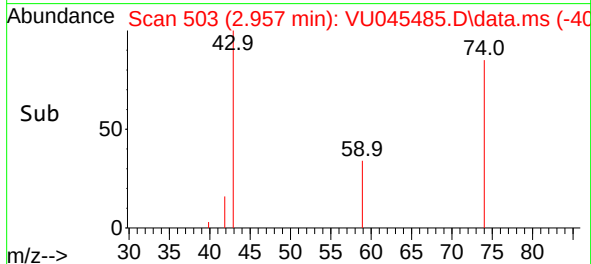
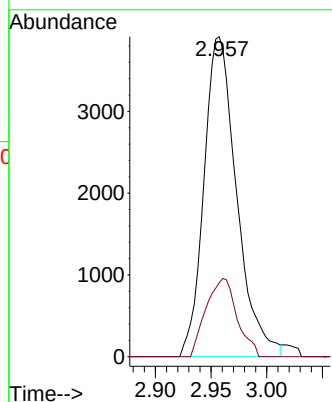
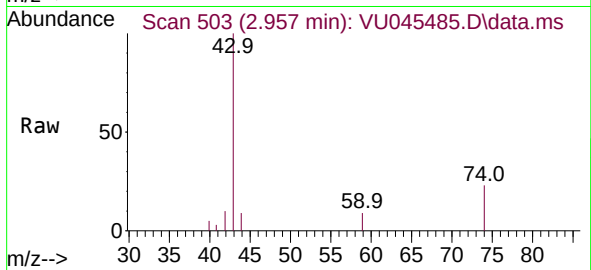




#15  
Methyl Acetate  
Concen: 2.783 ug/L  
RT: 2.957 min Scan# 502  
Delta R.T. 0.003 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

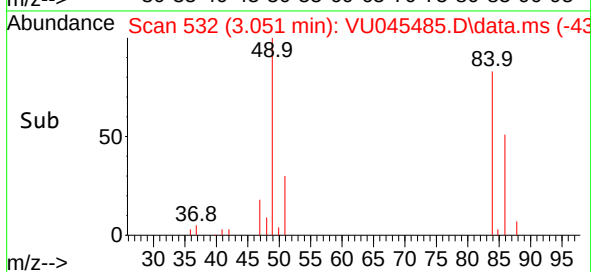
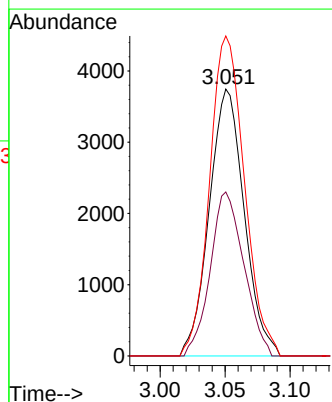
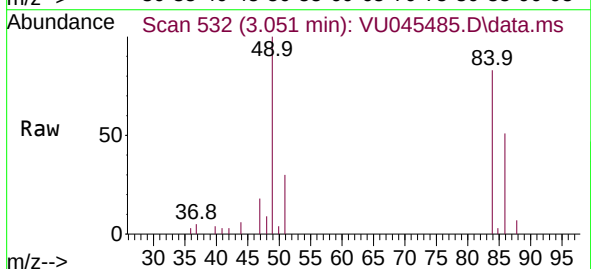
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

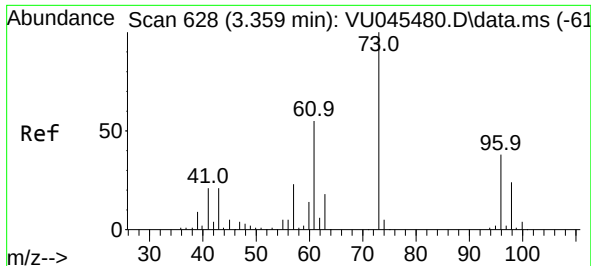
Tgt Ion: 43 Resp: 7998  
Ion Ratio Lower Upper  
43 100  
74 23.1 20.0 30.0



#16  
Methylene chloride  
Concen: 2.735 ug/L  
RT: 3.051 min Scan# 532  
Delta R.T. -0.000 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

Tgt Ion: 84 Resp: 7016  
Ion Ratio Lower Upper  
84 100  
86 61.5 45.8 85.2  
49 119.9 85.9 159.5





#17

trans-1,2-Dichloroethene

Concen: 2.491 ug/L

RT: 3.359 min Scan# 61

Delta R.T. -0.000 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

Instrument :

MSVOA\_U

ClientSampleId :

MDL04

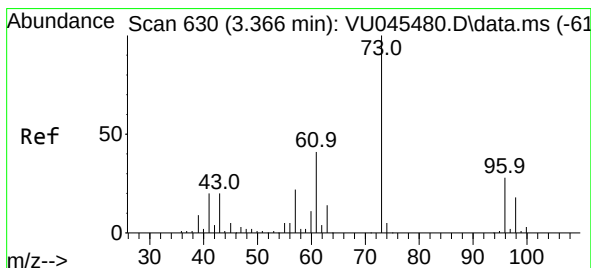
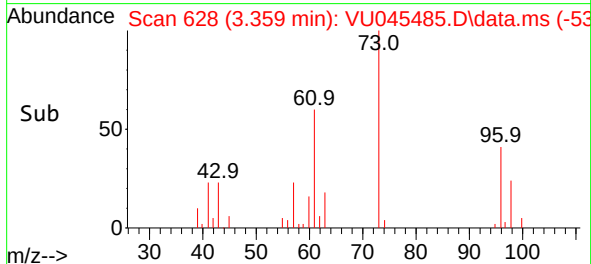
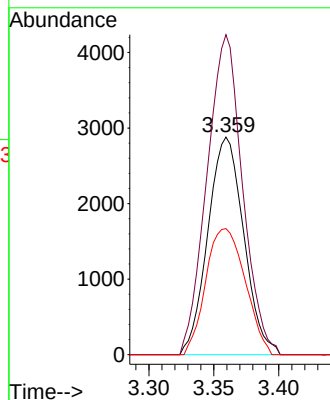
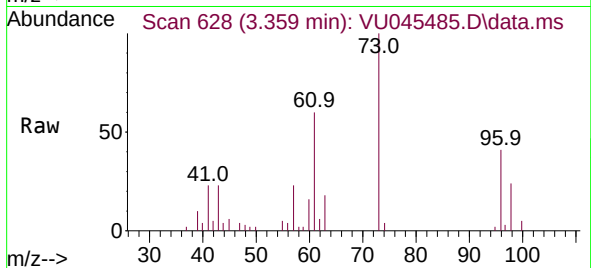
Tgt Ion: 96 Resp: 5540

Ion Ratio Lower Upper

96 100

61 138.4 101.8 189.2

98 54.6 45.1 83.7



#18

Methyl tert-butyl Ether

Concen: 2.475 ug/L

RT: 3.369 min Scan# 631

Delta R.T. 0.003 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

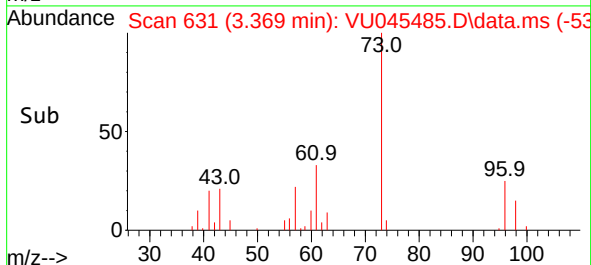
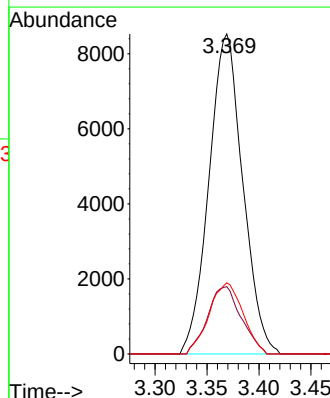
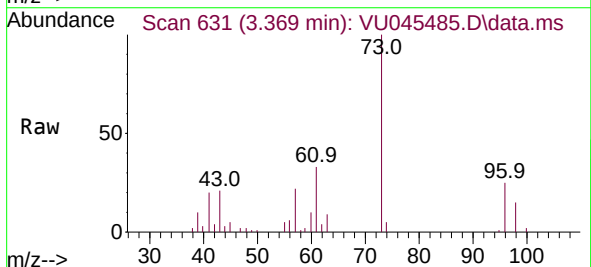
Tgt Ion: 73 Resp: 19298

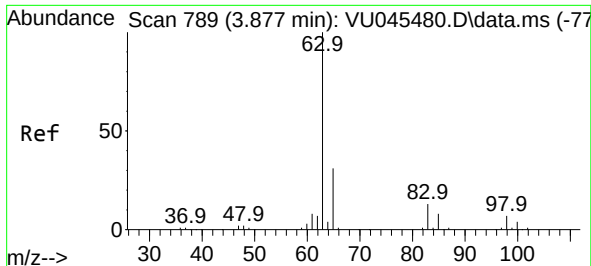
Ion Ratio Lower Upper

73 100

43 21.0 16.2 24.4

57 22.3 18.1 27.1





#19

1,1-Dichloroethane

Concen: 2.533 ug/L

RT: 3.877 min Scan# 71

Delta R.T. -0.000 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

Instrument :

MSVOA\_U

ClientSampleId :

MDL04

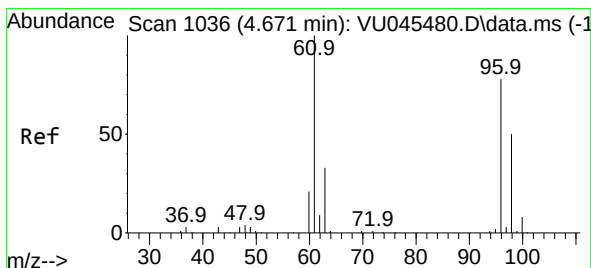
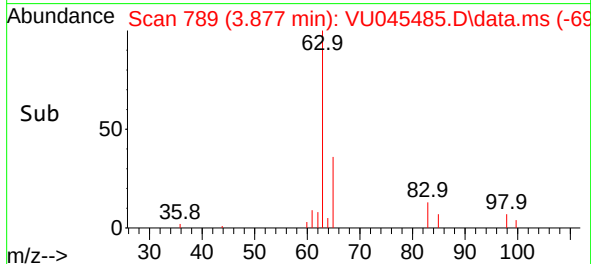
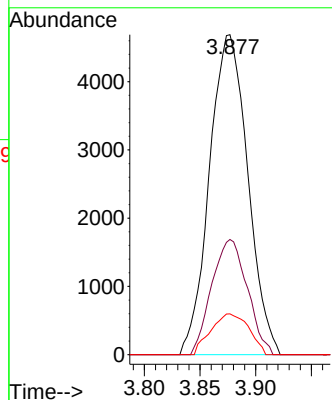
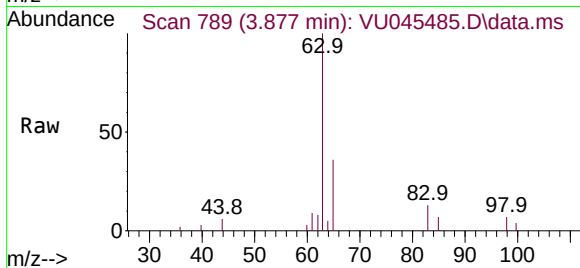
Tgt Ion: 63 Resp: 11225

Ion Ratio Lower Upper

63 100

65 36.0 22.4 41.6

83 12.8 9.0 16.6



#20

cis-1,2-Dichloroethene

Concen: 2.495 ug/L

RT: 4.668 min Scan# 1035

Delta R.T. -0.003 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

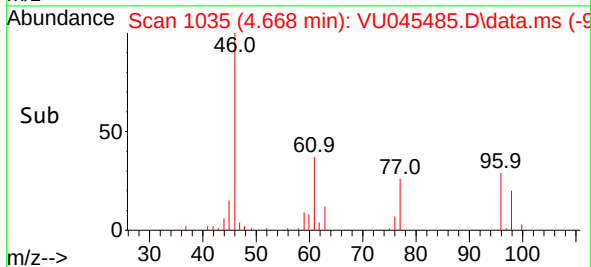
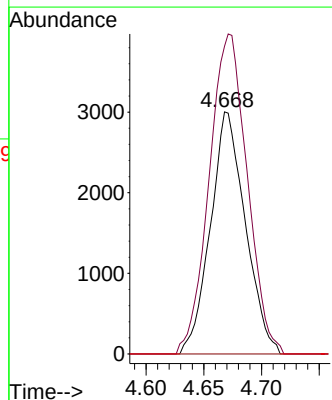
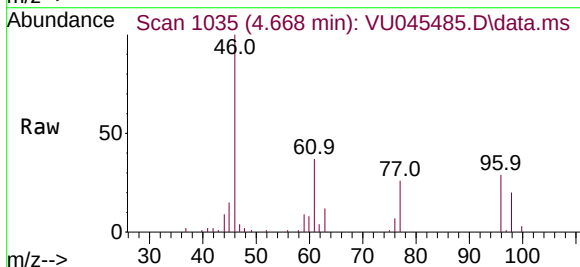
Tgt Ion: 96 Resp: 6330

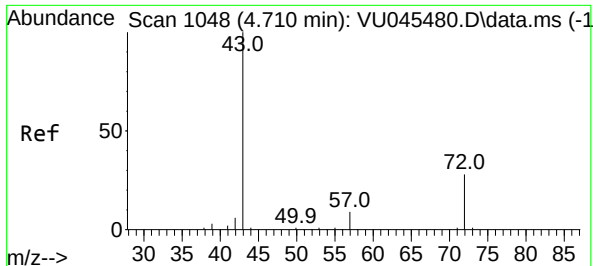
Ion Ratio Lower Upper

96 100

61 127.1 92.8 172.4

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 4.797 ug/L

RT: 4.716 min Scan# 1105

Delta R.T. 0.006 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

Instrument :

MSVOA\_U

ClientSampleId :

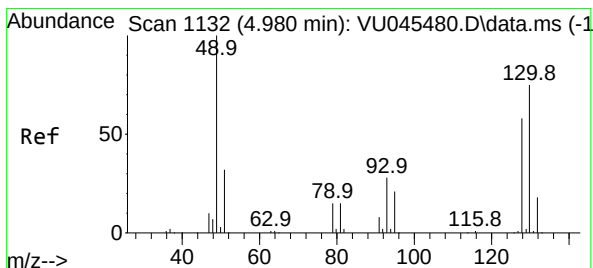
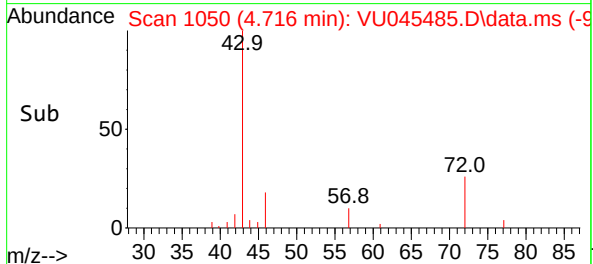
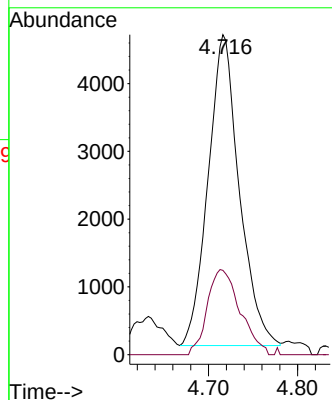
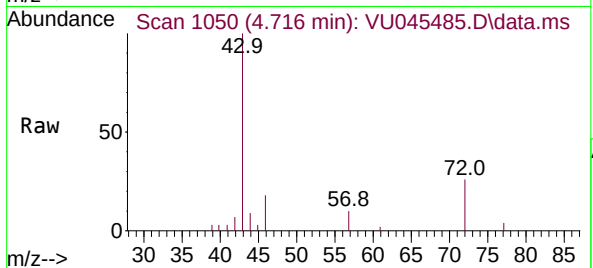
MDL04

Tgt Ion: 43 Resp: 11145

Ion Ratio Lower Upper

43 100

72 28.7 14.4 43.2



#23

Bromochloromethane

Concen: 2.518 ug/L

RT: 4.980 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

Tgt Ion: 128 Resp: 3075

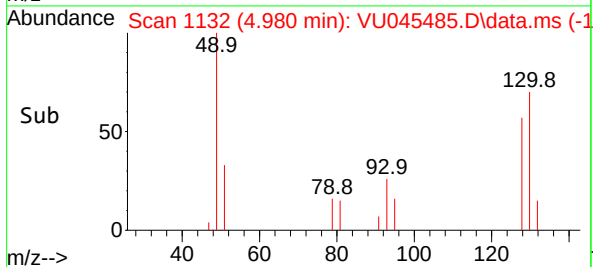
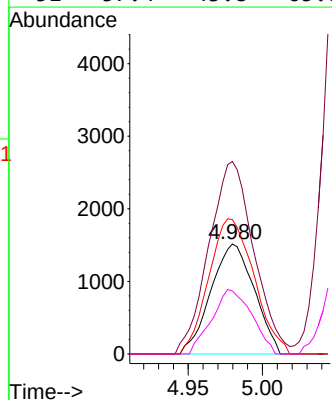
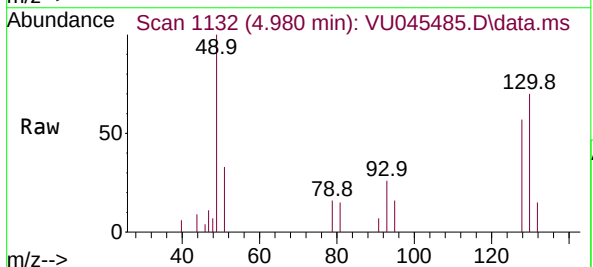
Ion Ratio Lower Upper

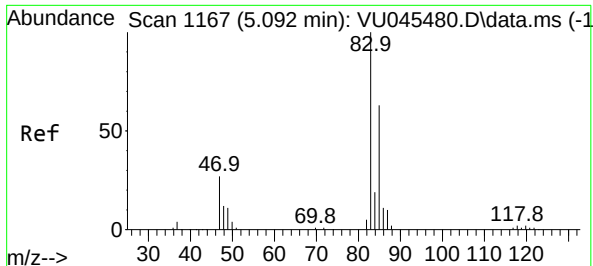
128 100

49 175.1 123.1 228.5

130 122.2 89.8 166.8

51 57.4 43.8 65.8





#25

Chloroform

Concen: 2.714 ug/L

RT: 5.096 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

Instrument :

MSVOA\_U

ClientSampleId :

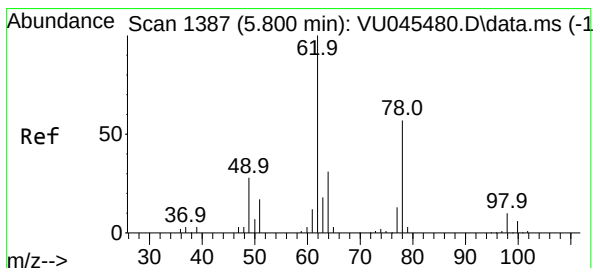
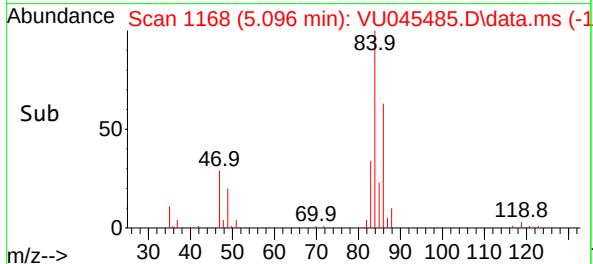
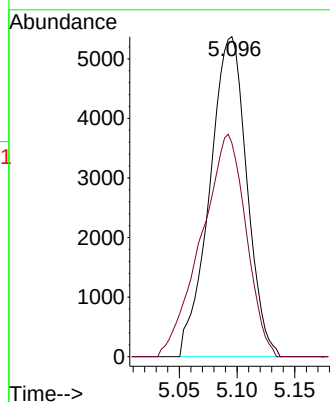
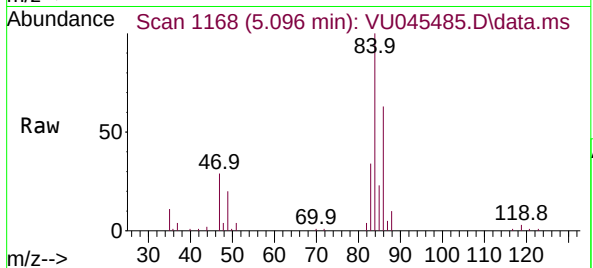
MDL04

Tgt Ion: 83 Resp: 12037

Ion Ratio Lower Upper

83 100

85 66.8 45.0 83.6



#27

1,2-Dichloroethane

Concen: 2.699 ug/L

RT: 5.800 min Scan# 1387

Delta R.T. -0.000 min

Lab File: VU045485.D

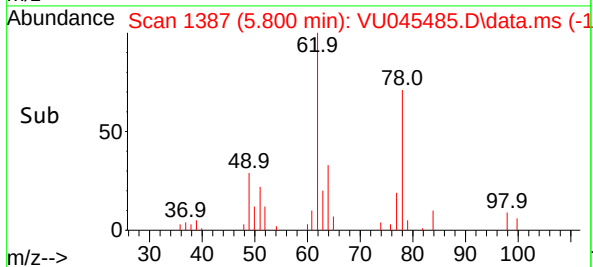
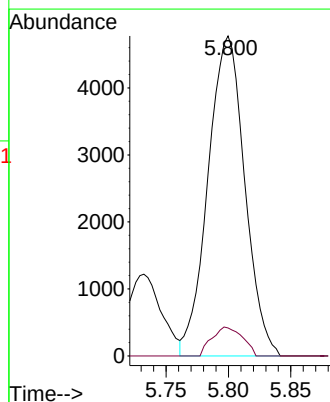
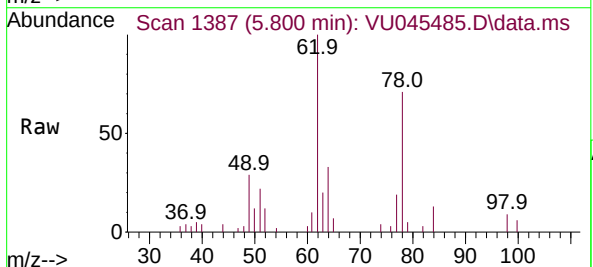
Acq: 01 Nov 2021 13:07

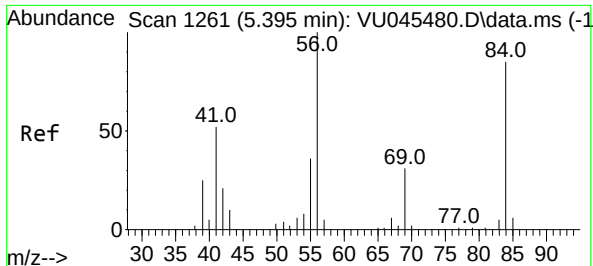
Tgt Ion: 62 Resp: 9792

Ion Ratio Lower Upper

62 100

98 8.8 7.4 11.0





#29

Cyclohexane

Concen: 2.325 ug/L

RT: 5.391 min Scan# 1260

Delta R.T. -0.003 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

Instrument :

MSVOA\_U

ClientSampleId :

MDL04

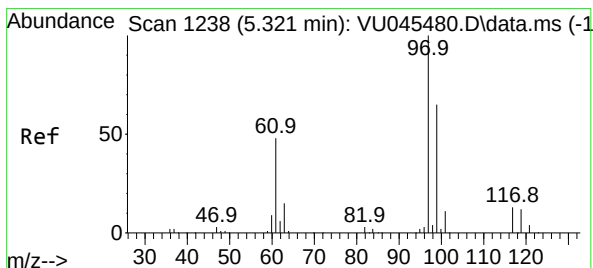
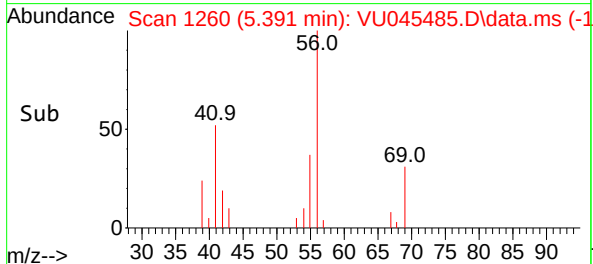
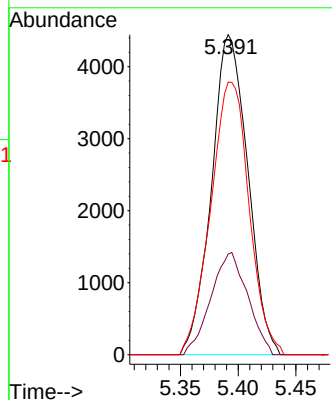
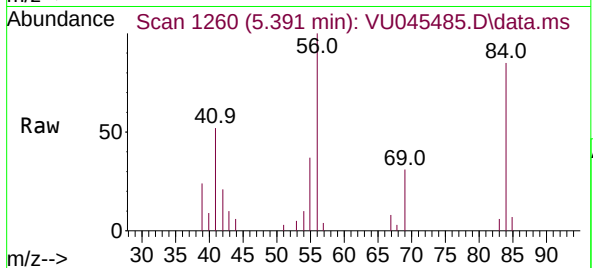
Tgt Ion: 56 Resp: 9736

Ion Ratio Lower Upper

56 100

69 32.3 25.0 37.4

84 89.9 69.9 104.9



#30

1,1,1-Trichloroethane

Concen: 2.447 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

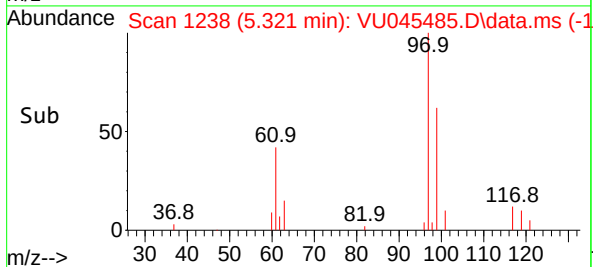
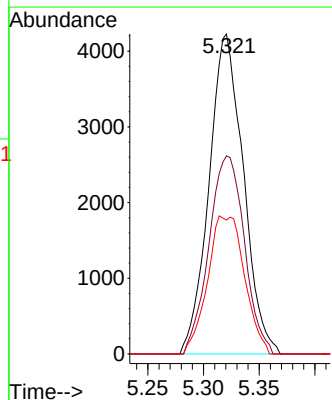
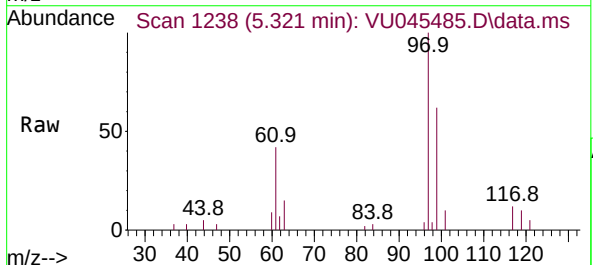
Tgt Ion: 97 Resp: 9077

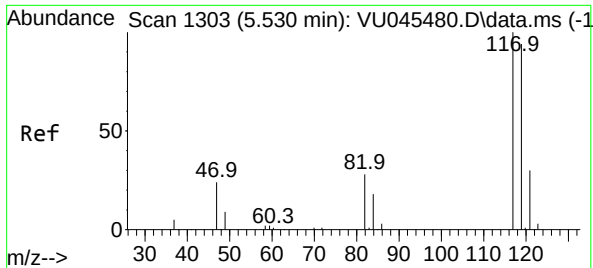
Ion Ratio Lower Upper

97 100

99 63.8 51.3 76.9

61 25.1 38.8 58.2#

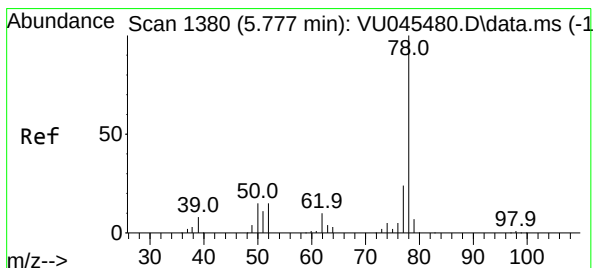
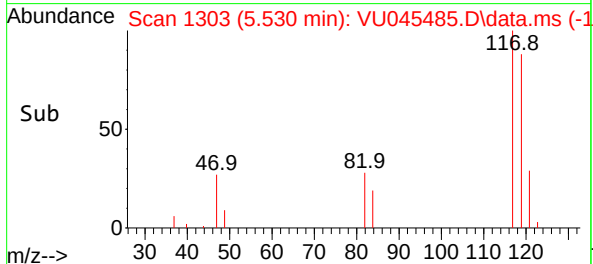
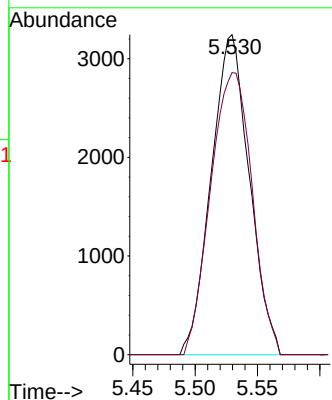
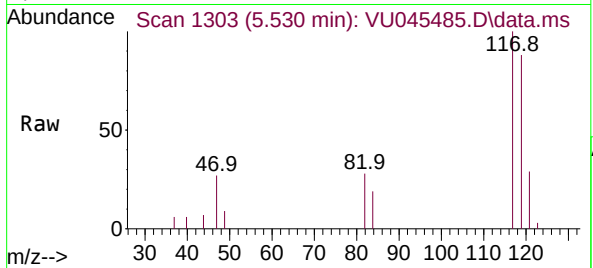




#31  
Carbon tetrachloride  
Concen: 2.355 ug/L  
RT: 5.530 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

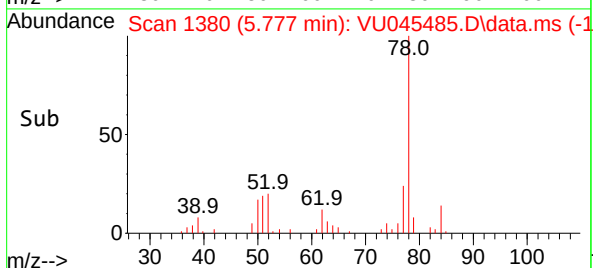
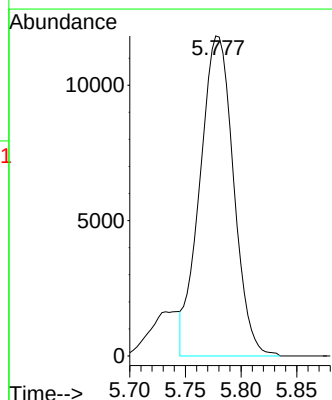
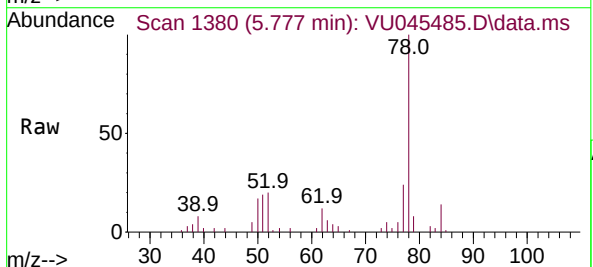
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

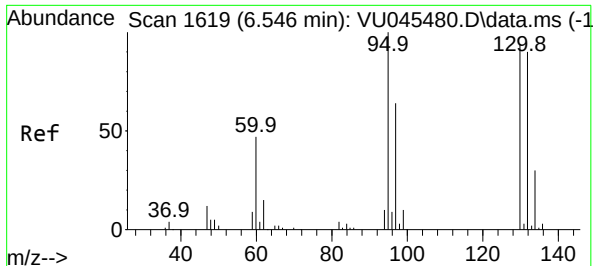
Tgt Ion:117 Resp: 6906  
Ion Ratio Lower Upper  
117 100  
119 96.0 77.0 115.4



#33  
Benzene  
Concen: 2.451 ug/L  
RT: 5.777 min Scan# 1380  
Delta R.T. -0.000 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

Tgt Ion: 78 Resp: 24836



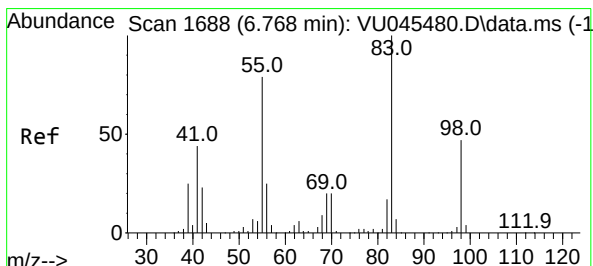
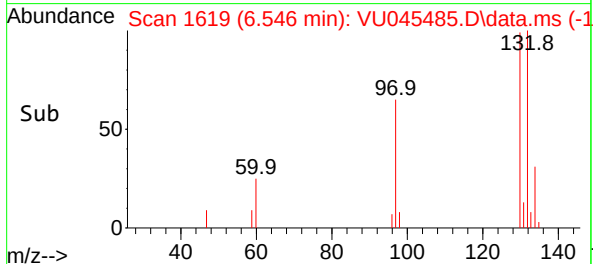
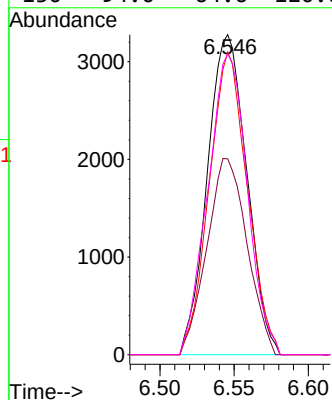
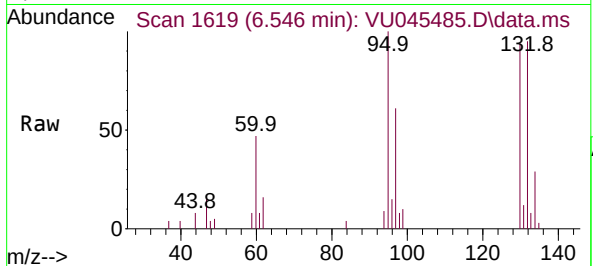


#34  
Trichloroethene  
Concen: 2.486 ug/L  
RT: 6.546 min Scan# 1619  
Delta R.T. -0.000 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

Tgt Ion: 95 Resp: 6047

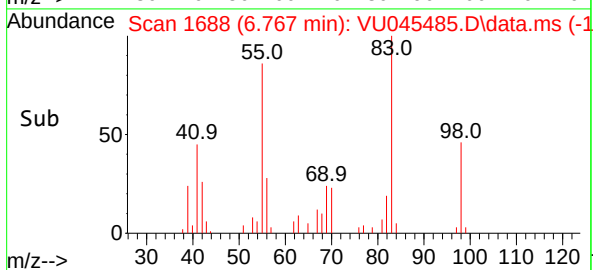
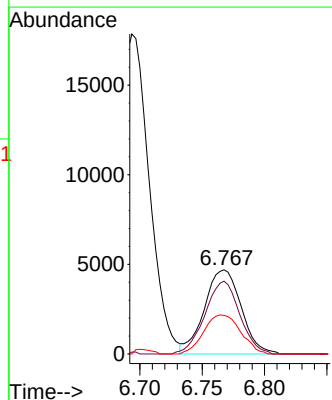
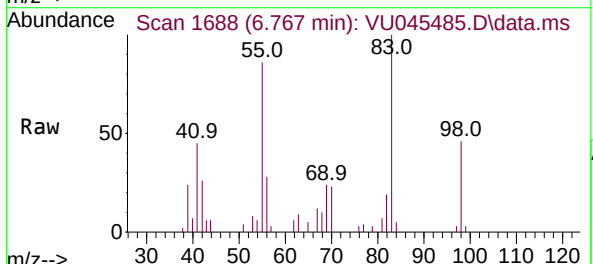
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 61.2  | 45.0  | 83.6  |
| 132 | 102.4 | 63.3  | 117.7 |
| 130 | 94.0  | 64.6  | 120.0 |



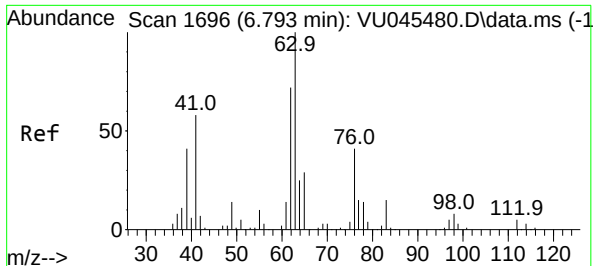
#35  
Methylcyclohexane  
Concen: 2.284 ug/L  
RT: 6.767 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

Tgt Ion: 83 Resp: 9655

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 81.7  | 62.8  | 94.2  |
| 98  | 46.5  | 37.4  | 56.2  |







#37

1,2-Dichloropropane

Concen: 2.383 ug/L

RT: 6.793 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

Instrument :

MSVOA\_U

ClientSampleId :

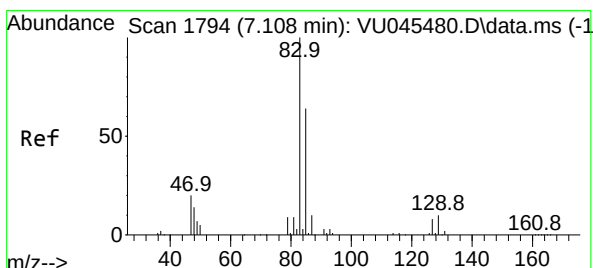
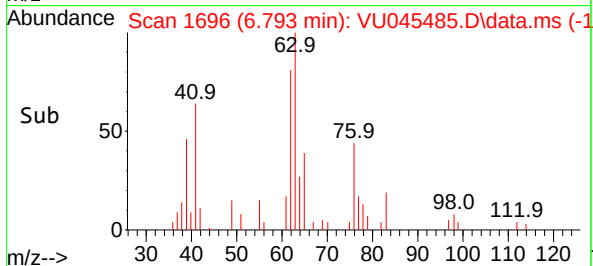
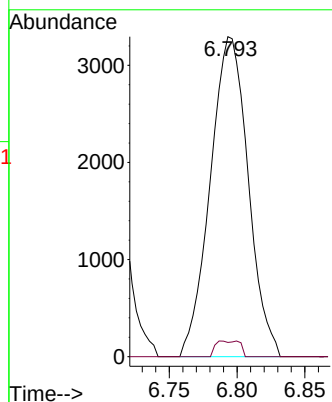
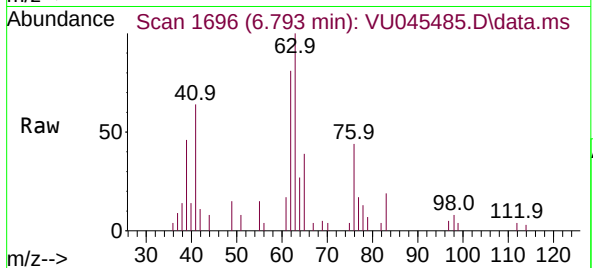
MDL04

Tgt Ion: 63 Resp: 6410

Ion Ratio Lower Upper

63 100

112 1.8 3.4 5.2#



#38

Bromodichloromethane

Concen: 2.376 ug/L

RT: 7.108 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

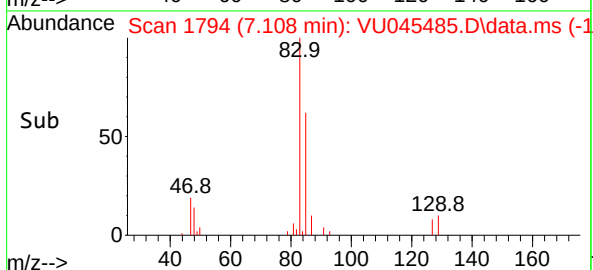
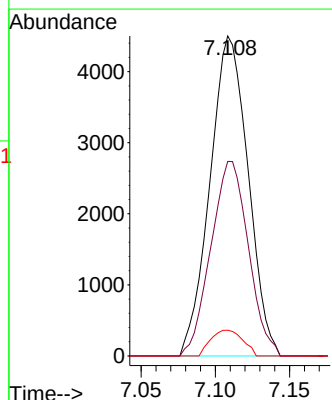
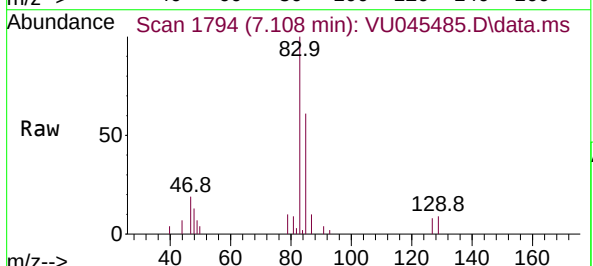
Tgt Ion: 83 Resp: 8035

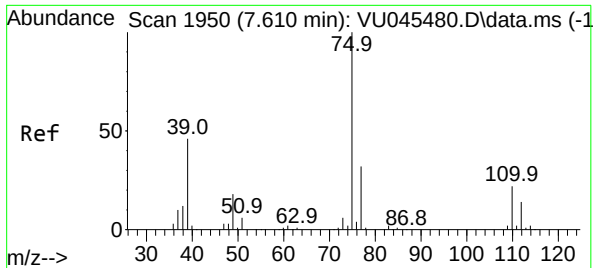
Ion Ratio Lower Upper

83 100

85 60.8 45.1 83.9

127 8.1 6.2 9.2





#39

cis-1,3-Dichloropropene

Concen: 2.391 ug/L

RT: 7.610 min Scan# 1950

Delta R.T. -0.000 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

Instrument :

MSVOA\_U

ClientSampleId :

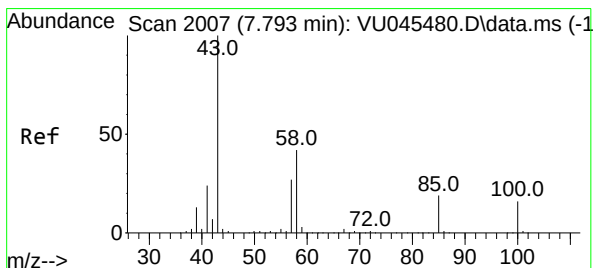
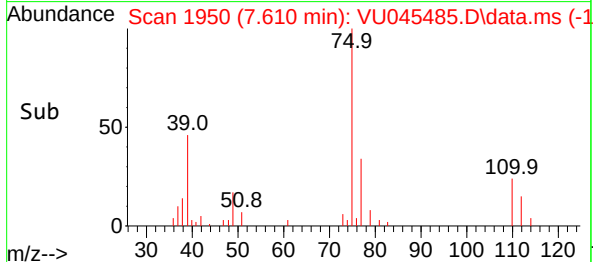
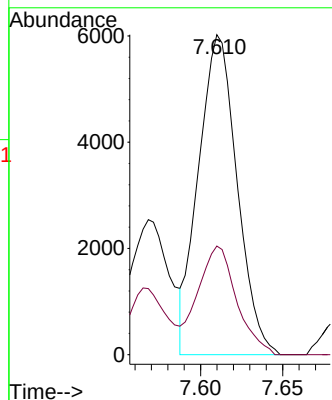
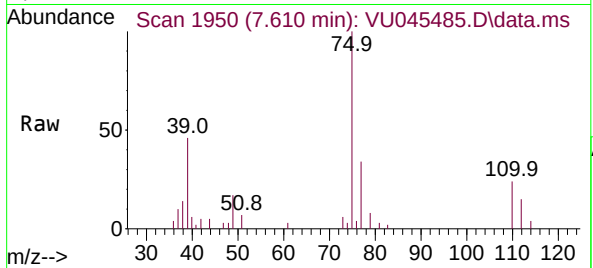
MDL04

Tgt Ion: 75 Resp: 9839

Ion Ratio Lower Upper

75 100

77 33.9 22.7 42.1



#40

4-Methyl-2-pentanone

Concen: 4.868 ug/L

RT: 7.793 min Scan# 2007

Delta R.T. -0.000 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

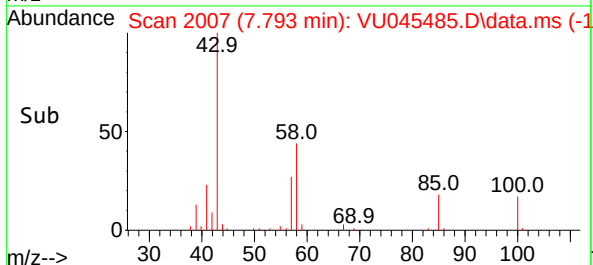
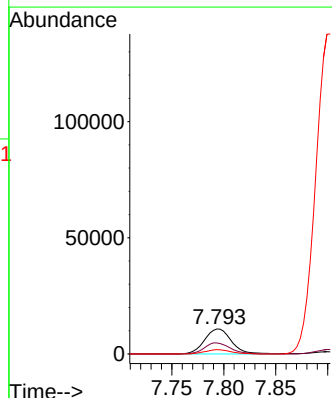
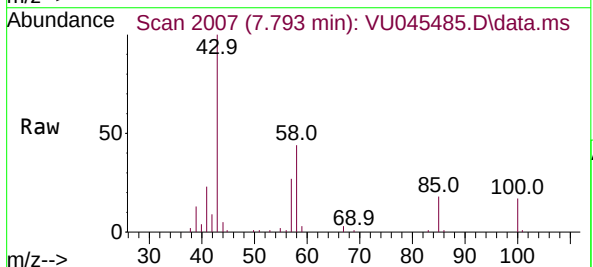
Tgt Ion: 43 Resp: 19327

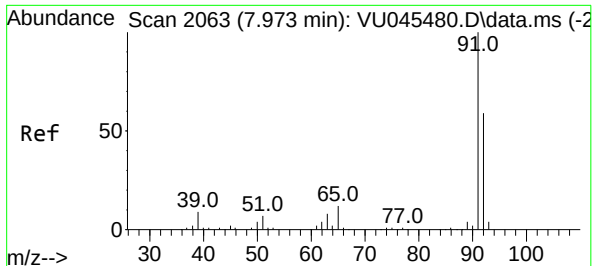
Ion Ratio Lower Upper

43 100

58 42.8 33.9 50.9

100 16.3 13.3 19.9





#42

Toluene

Concen: 2.955 ug/L

RT: 7.973 min Scan# 2063

Delta R.T. -0.000 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

Instrument :

MSVOA\_U

ClientSampleId :

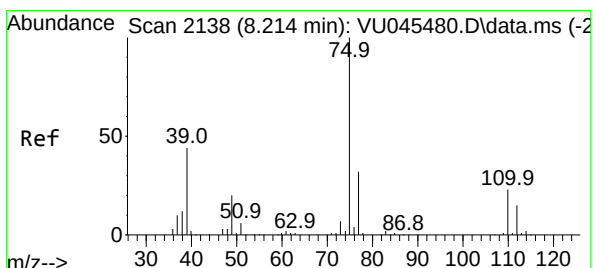
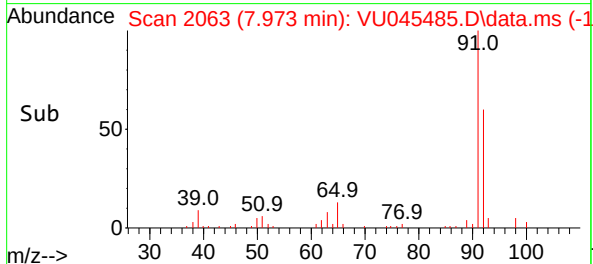
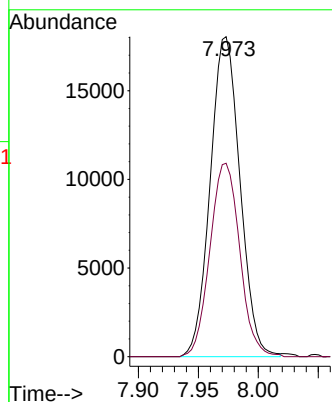
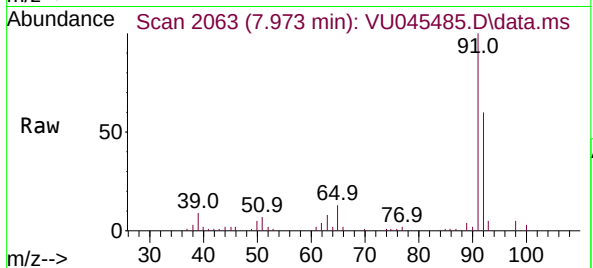
MDL04

Tgt Ion: 91 Resp: 31154

Ion Ratio Lower Upper

91 100

92 60.5 40.7 75.7



#44

trans-1,3-Dichloropropene

Concen: 2.611 ug/L

RT: 8.214 min Scan# 2138

Delta R.T. -0.000 min

Lab File: VU045485.D

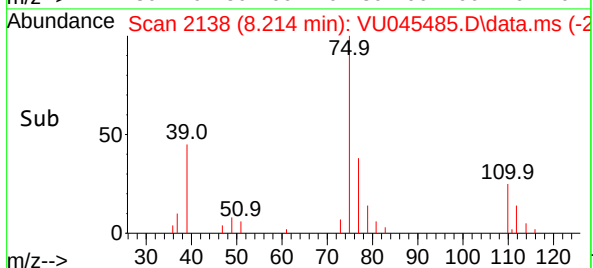
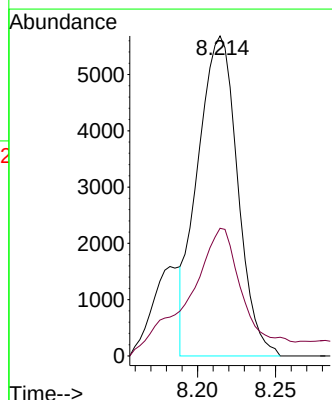
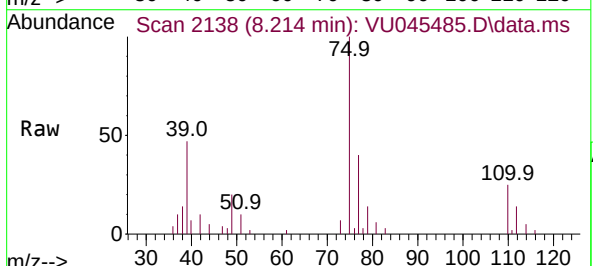
Acq: 01 Nov 2021 13:07

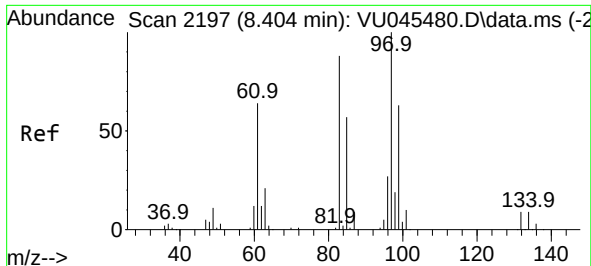
Tgt Ion: 75 Resp: 10133

Ion Ratio Lower Upper

75 100

77 39.9 22.7 42.1



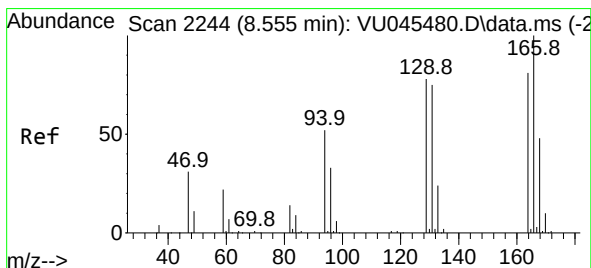
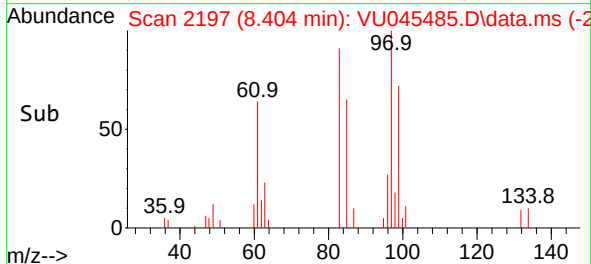
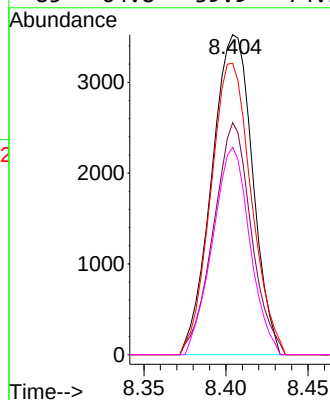
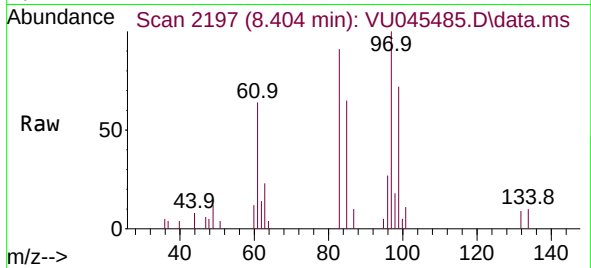


#45  
1,1,2-Trichloroethane  
Concen: 2.438 ug/L  
RT: 8.404 min Scan# 2197  
Delta R.T. -0.000 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

Tgt Ion: 97 Resp: 6091

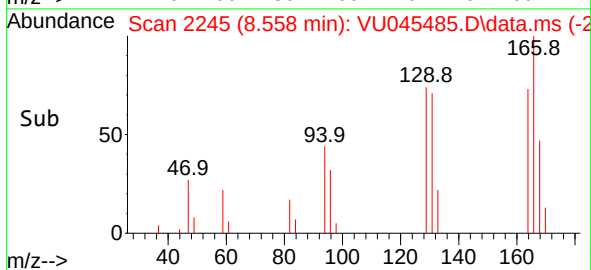
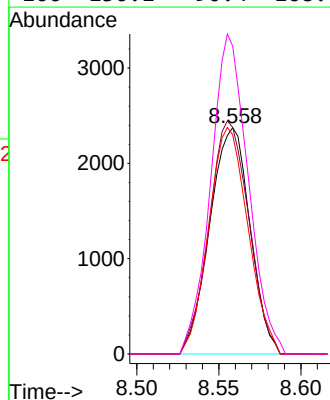
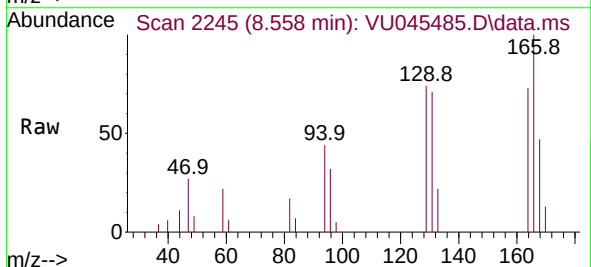
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 72.5  | 44.7  | 82.9  |
| 83  | 91.1  | 61.5  | 114.1 |
| 85  | 64.8  | 39.9  | 74.1  |

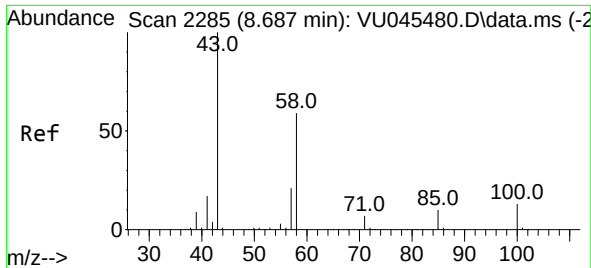


#46  
Tetrachloroethene  
Concen: 2.340 ug/L  
RT: 8.558 min Scan# 2245  
Delta R.T. 0.003 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

Tgt Ion: 164 Resp: 4038

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 100.1 | 66.8  | 124.2 |
| 131 | 96.9  | 65.6  | 121.8 |
| 166 | 136.1 | 90.4  | 168.0 |

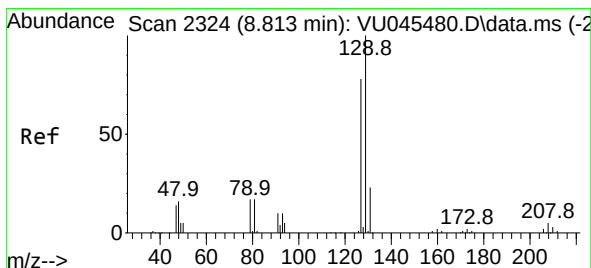
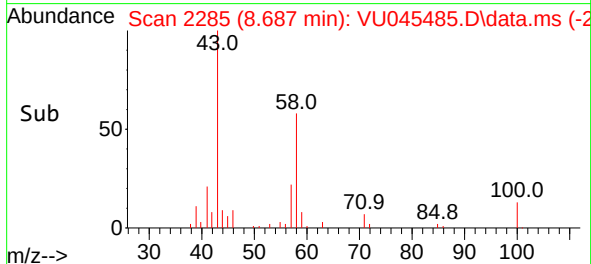
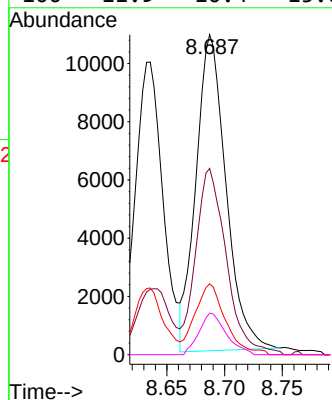
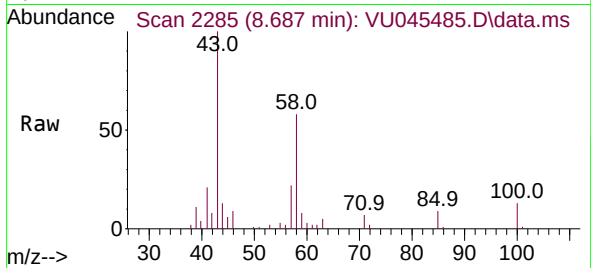




#48  
2-Hexanone  
Concen: 5.936 ug/L  
RT: 8.687 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

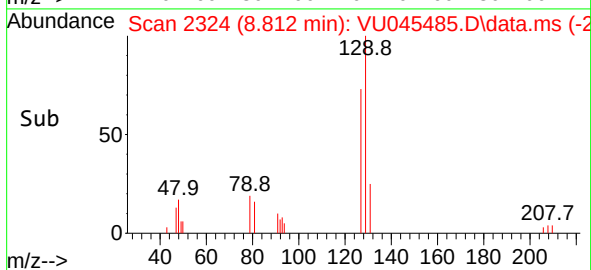
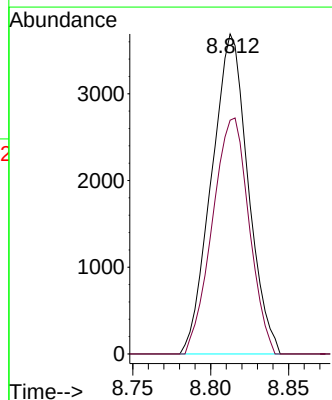
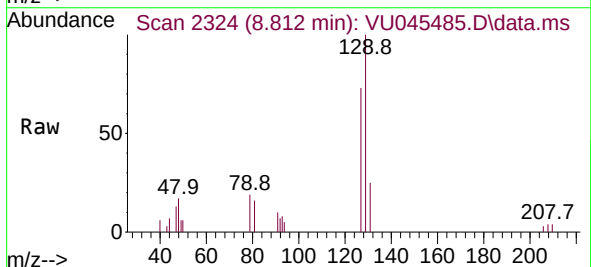
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

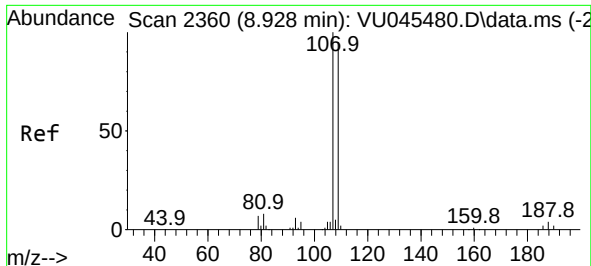
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 19629 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 58 60.1     | 47.0 70.4   |
| 57 20.2     | 16.3 24.5   |
| 100 11.9    | 10.4 15.6   |



#49  
Dibromochloromethane  
Concen: 2.497 ug/L  
RT: 8.812 min Scan# 2324  
Delta R.T. -0.000 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

|             |            |       |  |
|-------------|------------|-------|--|
| Tgt Ion:129 | Resp: 6011 |       |  |
| Ion Ratio   | Lower      | Upper |  |
| 129 100     |            |       |  |
| 127 73.1    | 54.9       | 101.9 |  |





#50

1,2-Dibromoethane

Concen: 2.467 ug/L

RT: 8.928 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

Instrument :

MSVOA\_U

ClientSampleId :

MDL04

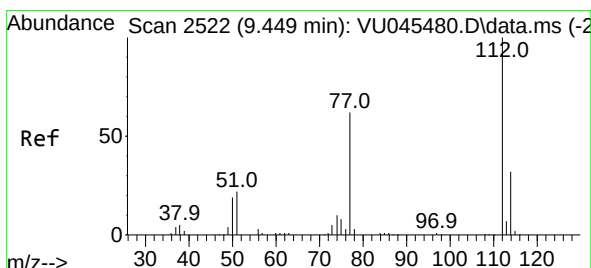
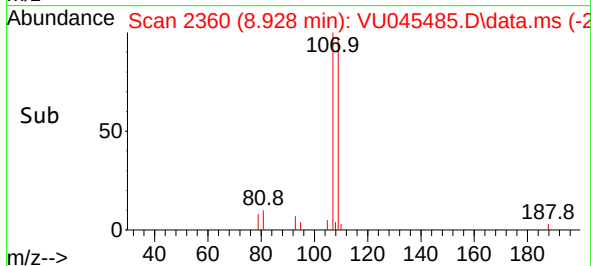
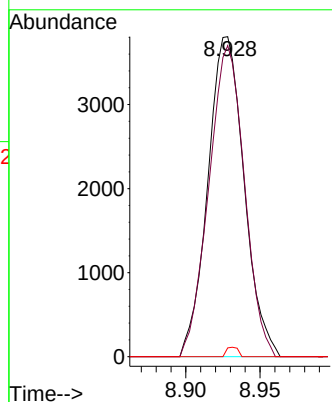
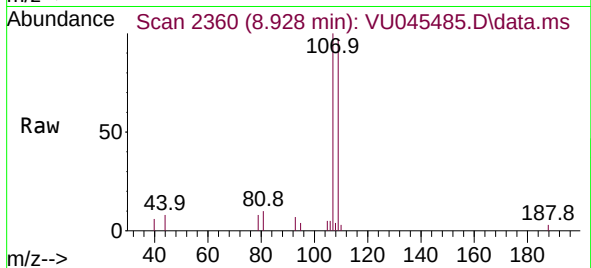
Tgt Ion:107 Resp: 6467

Ion Ratio Lower Upper

107 100

109 97.2 66.1 122.8

188 2.8 2.8 4.2#



#51

Chlorobenzene

Concen: 2.546 ug/L

RT: 9.449 min Scan# 2522

Delta R.T. -0.000 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

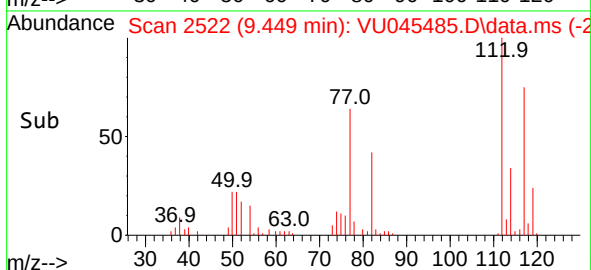
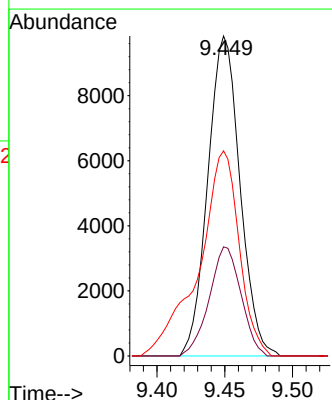
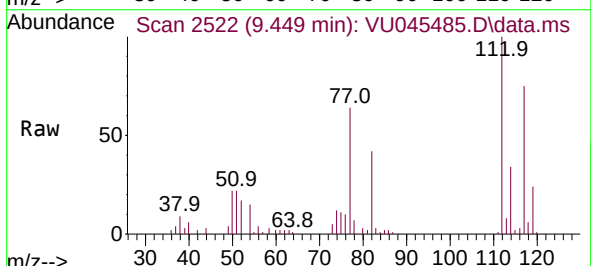
Tgt Ion:112 Resp: 16223

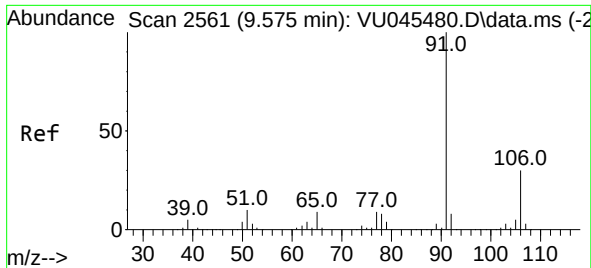
Ion Ratio Lower Upper

112 100

114 34.1 22.5 41.7

77 64.1 49.8 74.6

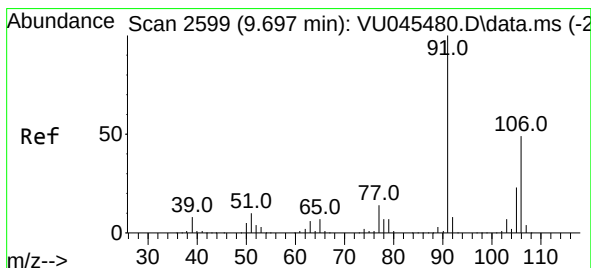
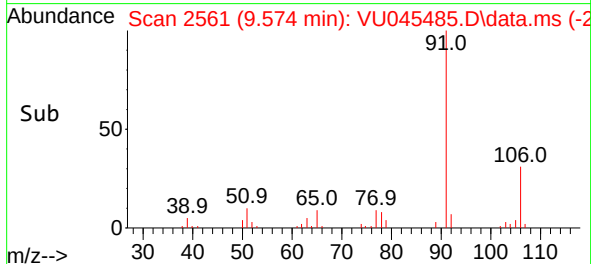
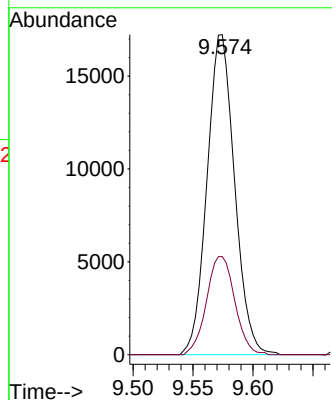
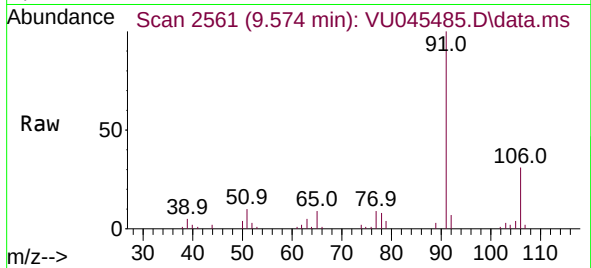




#52  
Ethylbenzene  
Concen: 2.461 ug/L  
RT: 9.574 min Scan# 2561  
Delta R.T. -0.000 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

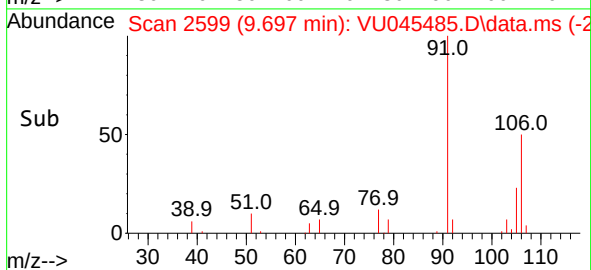
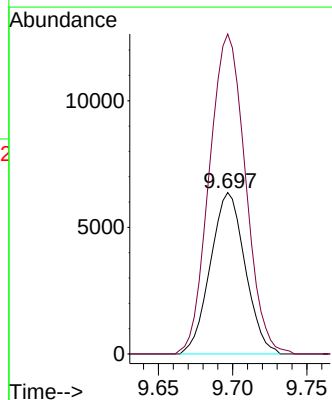
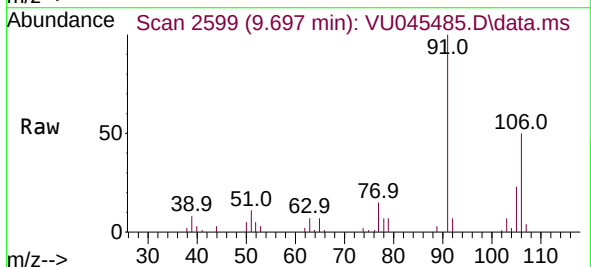
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

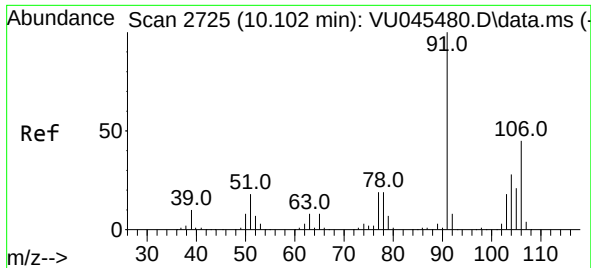
Tgt Ion: 91 Resp: 27519  
Ion Ratio Lower Upper  
91 100  
106 33.1 21.7 40.3



#53  
m,p-Xylene  
Concen: 2.426 ug/L  
RT: 9.697 min Scan# 2599  
Delta R.T. -0.000 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

Tgt Ion: 106 Resp: 10384  
Ion Ratio Lower Upper  
106 100  
91 198.2 142.2 264.2

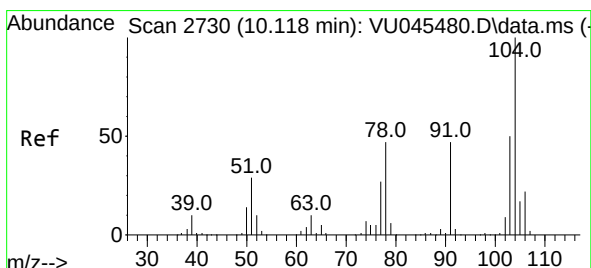
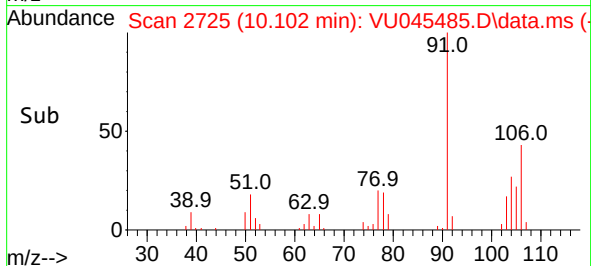
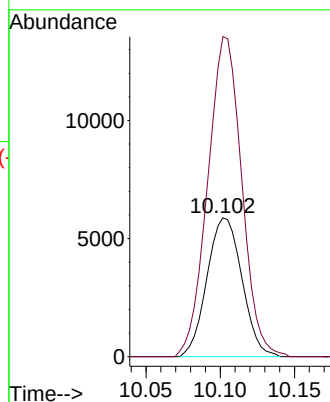
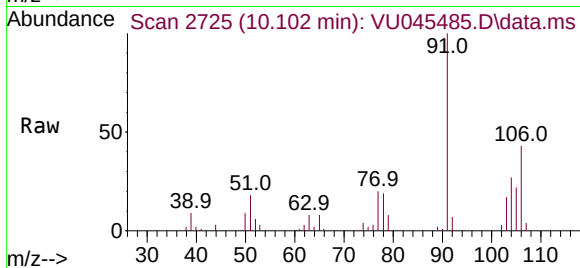




#54  
o-xylene  
Concen: 2.270 ug/L  
RT: 10.102 min Scan# 2725  
Delta R.T. -0.000 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

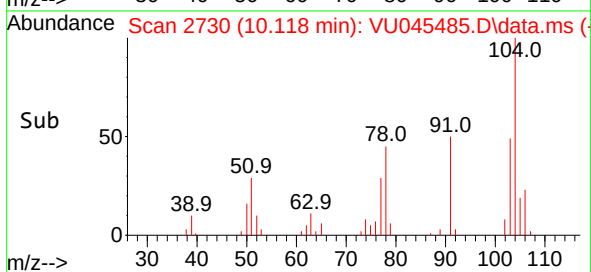
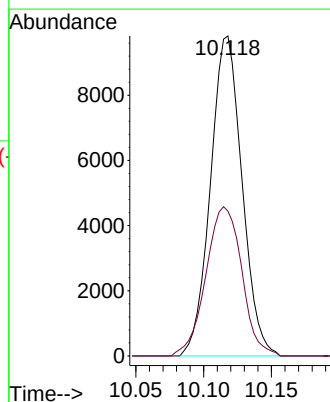
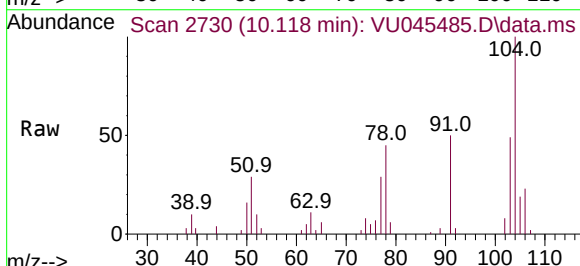
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

Tgt Ion:106 Resp: 9622  
Ion Ratio Lower Upper  
106 100  
91 230.3 155.2 288.2

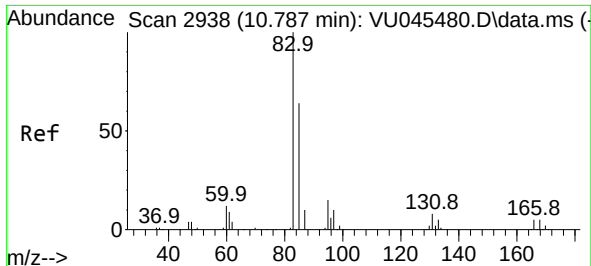


#55  
Styrene  
Concen: 2.233 ug/L  
RT: 10.118 min Scan# 2730  
Delta R.T. -0.000 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

Tgt Ion:104 Resp: 15902  
Ion Ratio Lower Upper  
104 100  
78 45.3 32.6 60.6







#57

1,1,2,2-Tetrachloroethane

Concen: 2.604 ug/L

RT: 10.787 min Scan# 2938

Delta R.T. -0.000 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

Instrument :

MSVOA\_U

ClientSampleId :

MDL04

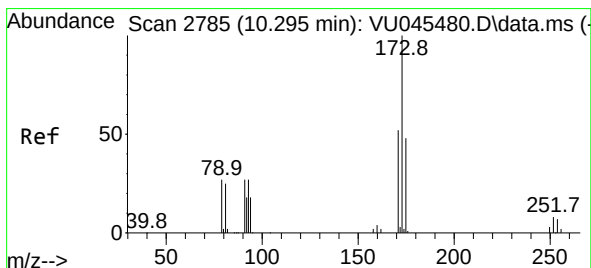
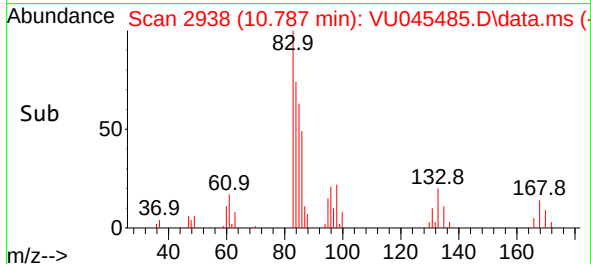
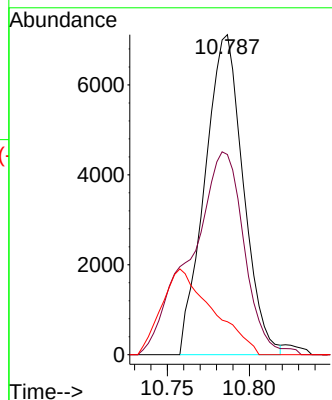
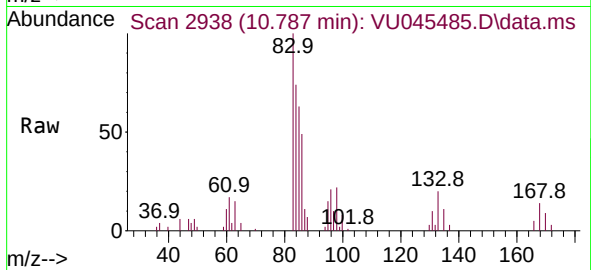
Tgt Ion: 83 Resp: 11558

Ion Ratio Lower Upper

83 100

85 62.5 46.0 85.4

131 10.3 7.0 10.4



#59

Bromoform

Concen: 2.349 ug/L

RT: 10.291 min Scan# 2784

Delta R.T. -0.003 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

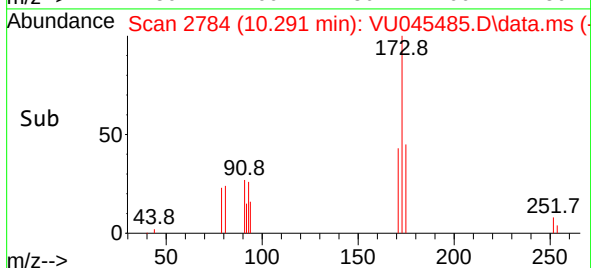
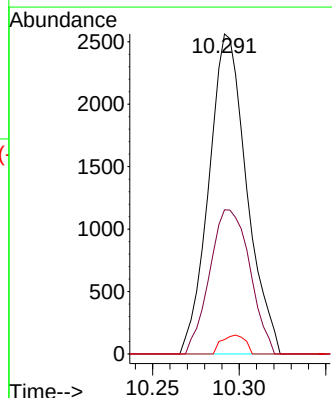
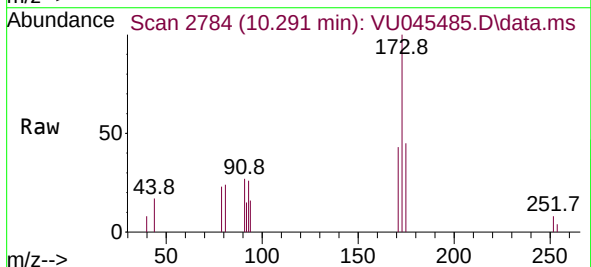
Tgt Ion: 173 Resp: 3884

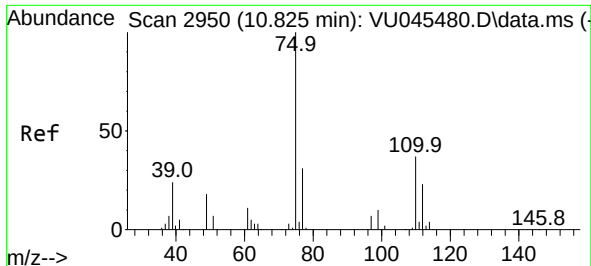
Ion Ratio Lower Upper

173 100

175 47.9 38.7 58.1

254 3.7 5.8 8.8#

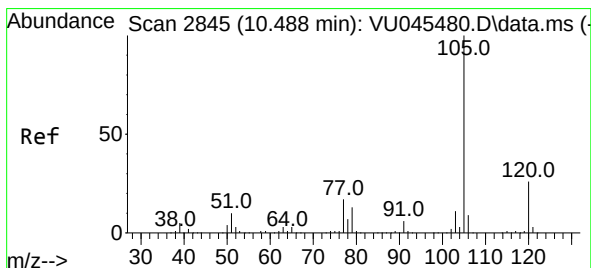
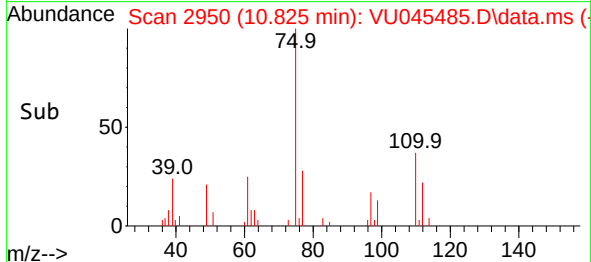
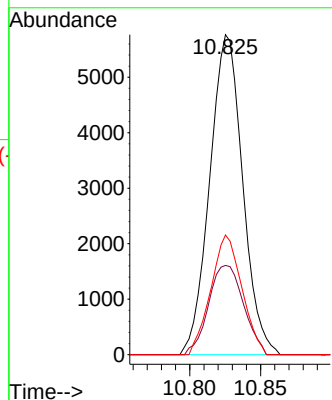
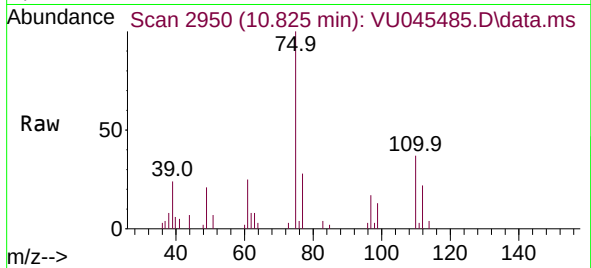




#60  
1,2,3-Trichloropropane  
Concen: 2.640 ug/L  
RT: 10.825 min Scan# 2950  
Delta R.T. -0.000 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

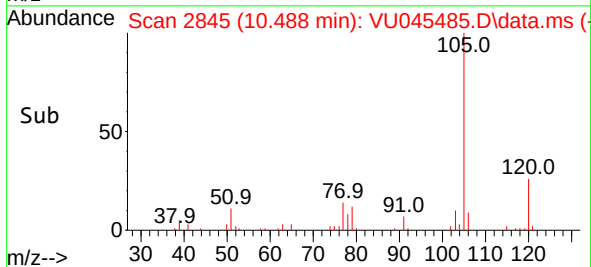
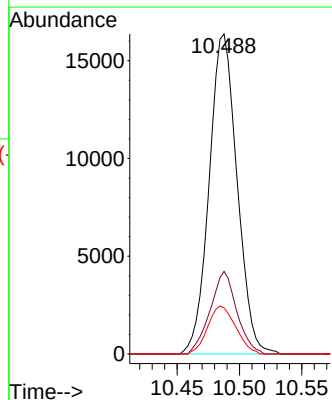
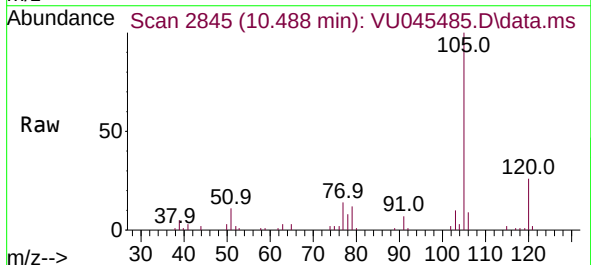
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

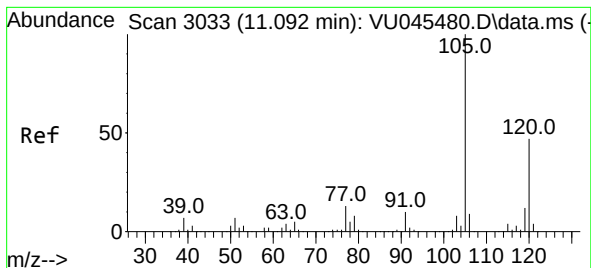
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 9322  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 29.6  | 25.9  | 38.9  |
| 110      | 35.3  | 29.8  | 44.8  |



#61  
Isopropylbenzene  
Concen: 2.411 ug/L  
RT: 10.488 min Scan# 2845  
Delta R.T. -0.000 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 25553 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 24.5  | 20.4  | 30.6  |
| 77       | 15.0  | 13.3  | 19.9  |





#62

1,3,5-Trimethylbenzene

Concen: 2.231 ug/L

RT: 11.092 min Scan# 3033

Delta R.T. -0.000 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

Instrument :

MSVOA\_U

ClientSampleId :

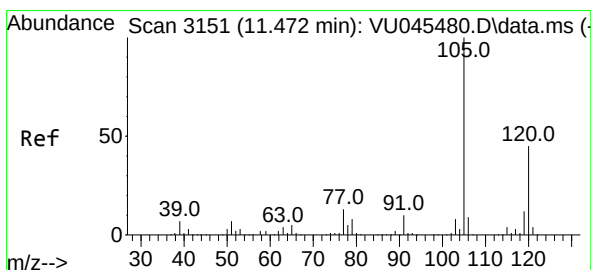
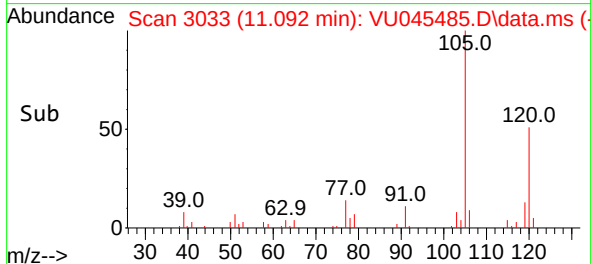
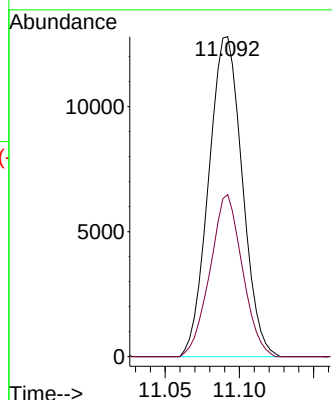
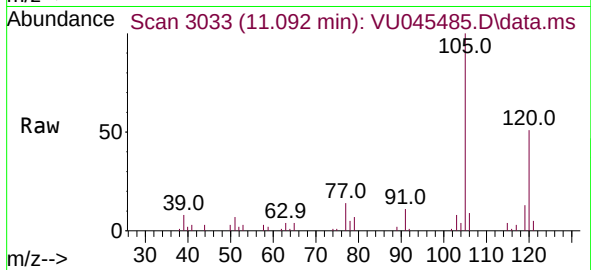
MDL04

Tgt Ion:105 Resp: 20144

Ion Ratio Lower Upper

105 100

120 48.7 38.5 57.7



#63

1,2,4-Trimethylbenzene

Concen: 2.255 ug/L

RT: 11.471 min Scan# 3151

Delta R.T. -0.000 min

Lab File: VU045485.D

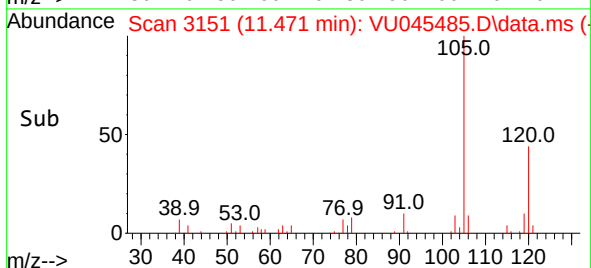
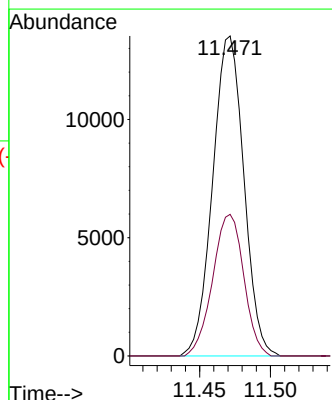
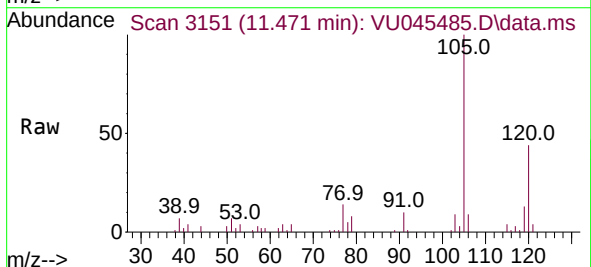
Acq: 01 Nov 2021 13:07

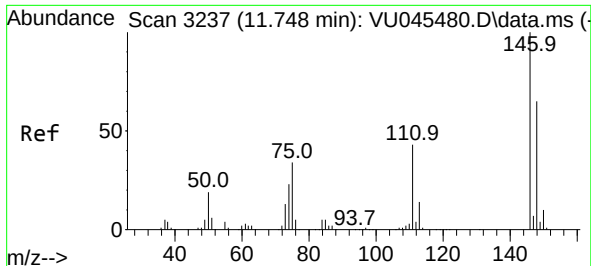
Tgt Ion:105 Resp: 20691

Ion Ratio Lower Upper

105 100

120 44.1 35.6 53.4

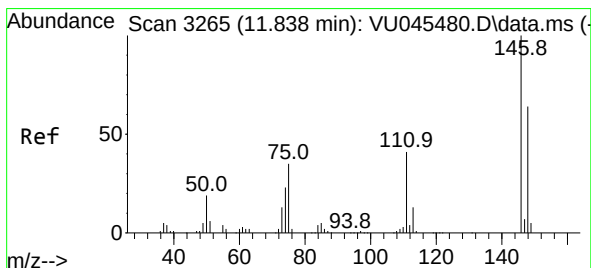
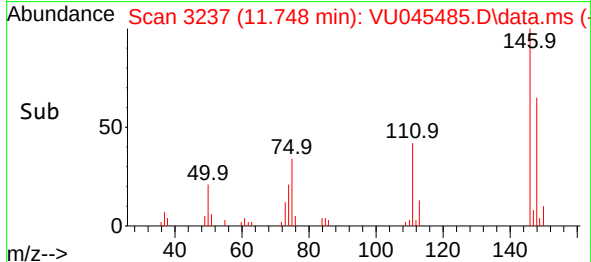
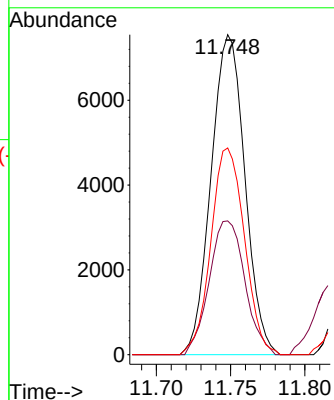
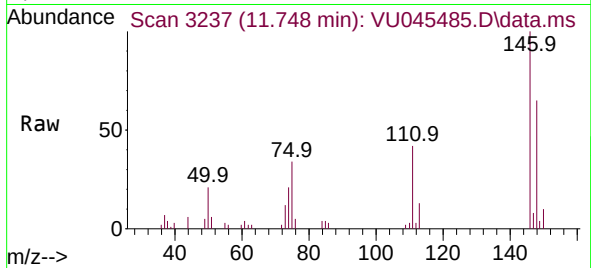




#64  
1,3-Dichlorobenzene  
Concen: 2.550 ug/L  
RT: 11.748 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

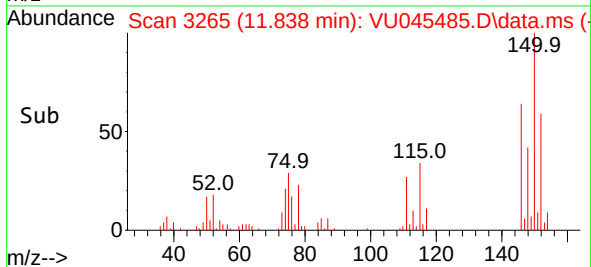
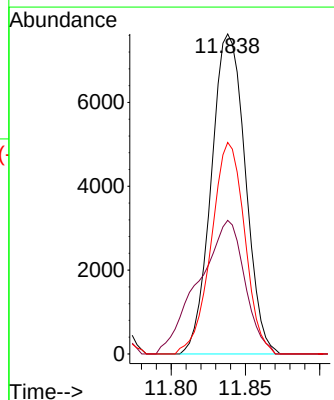
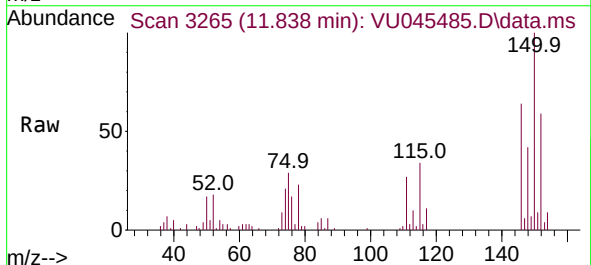
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

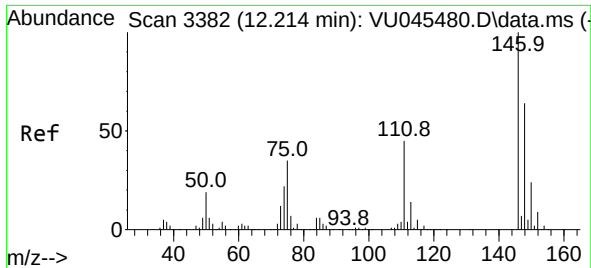
Tgt Ion:146 Resp: 11951  
Ion Ratio Lower Upper  
146 100  
111 41.8 29.8 55.4  
148 69.1 44.1 81.9



#65  
1,4-Dichlorobenzene  
Concen: 2.563 ug/L  
RT: 11.838 min Scan# 3265  
Delta R.T. -0.000 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

Tgt Ion:146 Resp: 12153  
Ion Ratio Lower Upper  
146 100  
111 41.7 28.6 53.0  
148 66.1 44.5 82.7





#67

1,2-Dichlorobenzene

Concen: 2.561 ug/L

RT: 12.214 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

Instrument :

MSVOA\_U

ClientSampleId :

MDL04

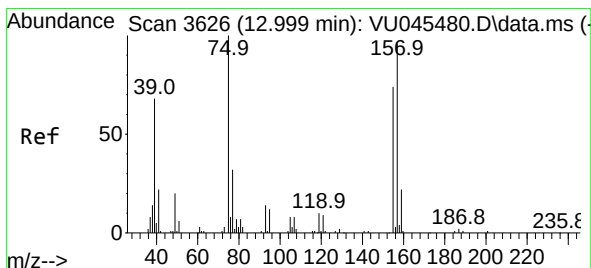
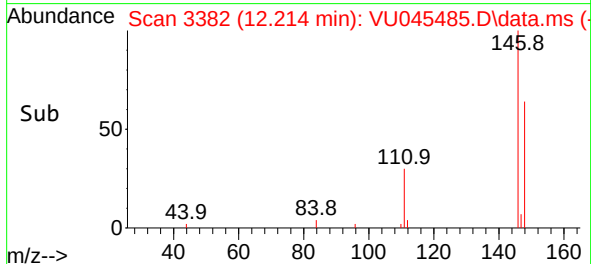
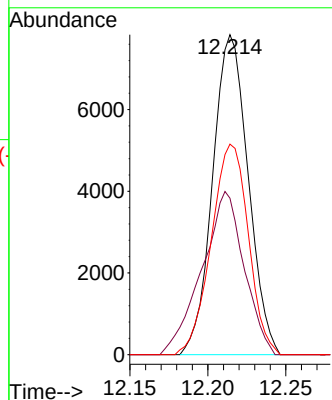
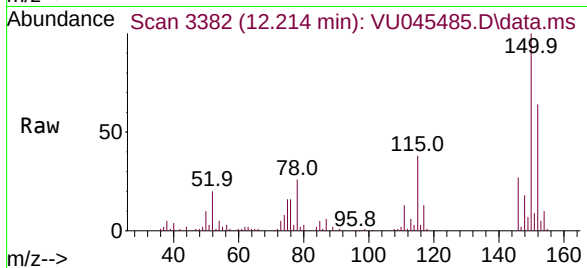
Tgt Ion:146 Resp: 12424

Ion Ratio Lower Upper

146 100

111 45.8 34.6 52.0

148 61.6 51.2 76.8



#68

1,2-Dibromo-3-chloropropane

Concen: 2.379 ug/L

RT: 12.999 min Scan# 3626

Delta R.T. -0.000 min

Lab File: VU045485.D

Acq: 01 Nov 2021 13:07

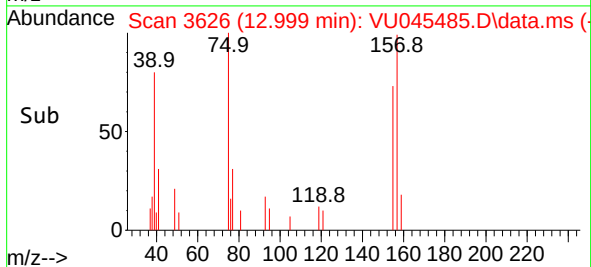
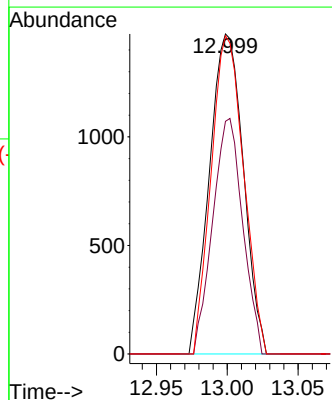
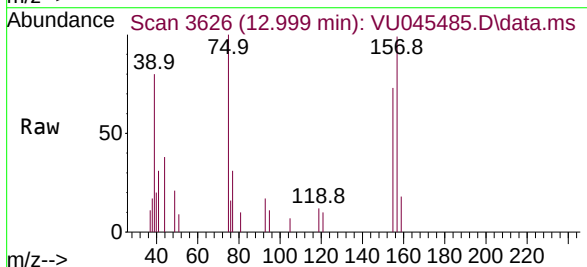
Tgt Ion: 75 Resp: 2453

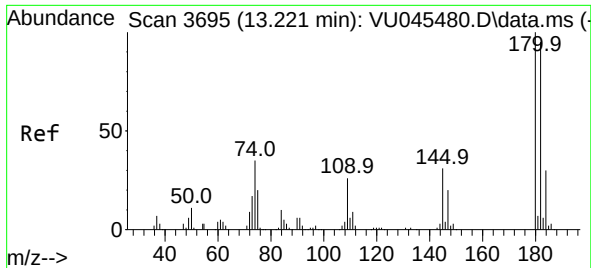
Ion Ratio Lower Upper

75 100

155 72.7 60.0 90.0

157 99.5 77.9 116.9

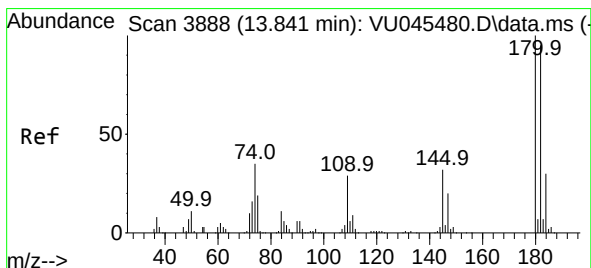
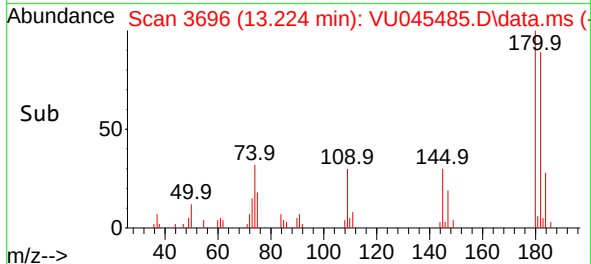
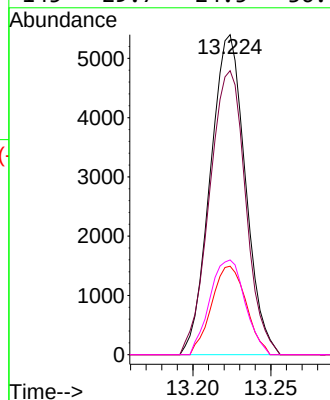
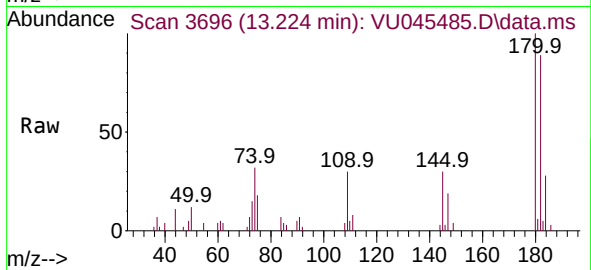




#69  
 1,3,5-Trichlorobenzene  
 Concen: 2.444 ug/L  
 RT: 13.224 min Scan# 3696  
 Delta R.T. 0.003 min  
 Lab File: VU045485.D  
 Acq: 01 Nov 2021 13:07

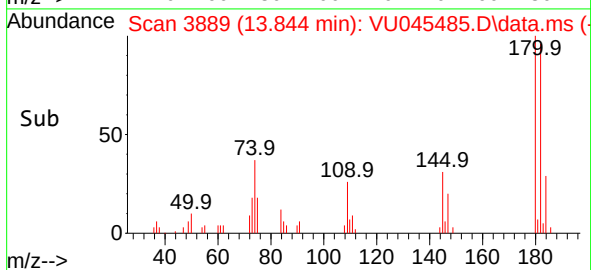
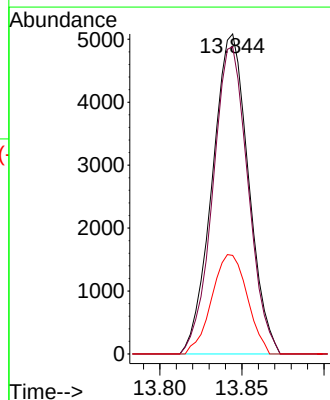
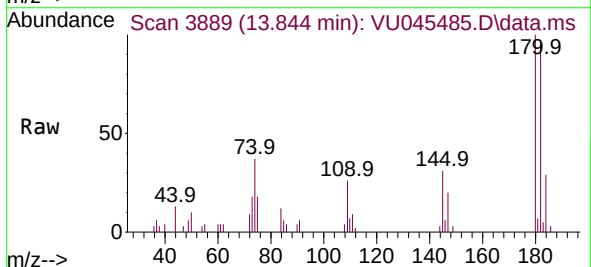
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL04

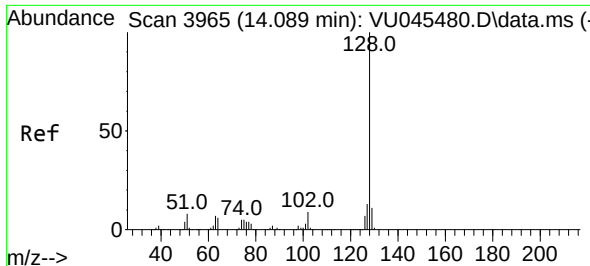
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 8450        |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 91.4  | 76.6 114.8  |
| 184         | 27.2  | 23.9 35.9   |
| 145         | 29.7  | 24.5 36.7   |



#70  
 1,2,4-trichlorobenzene  
 Concen: 2.465 ug/L  
 RT: 13.844 min Scan# 3889  
 Delta R.T. 0.003 min  
 Lab File: VU045485.D  
 Acq: 01 Nov 2021 13:07

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 7786        |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 93.3  | 76.1 114.1  |
| 145         | 30.5  | 25.3 37.9   |

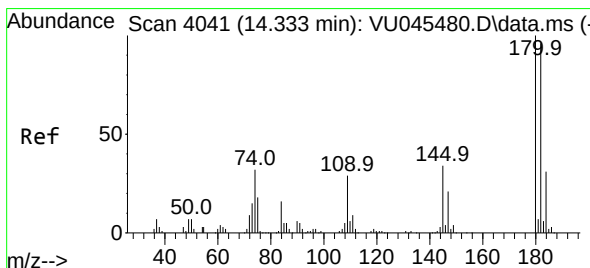
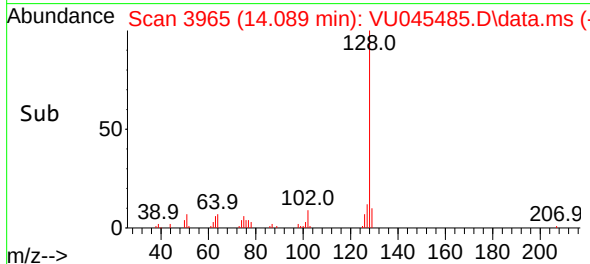
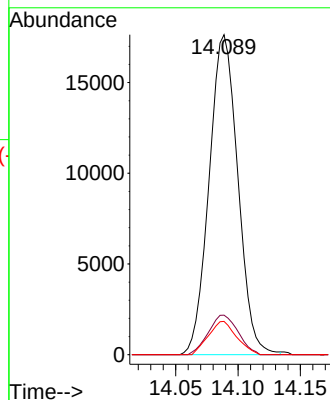
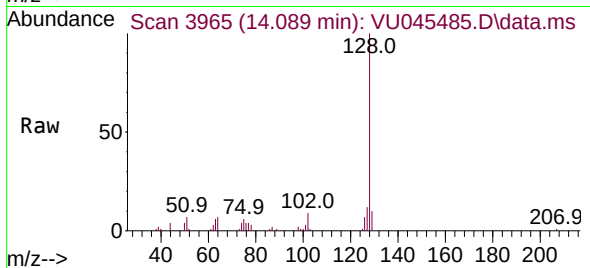




#71  
Naphthalene  
Concen: 2.352 ug/L  
RT: 14.089 min Scan# 3965  
Delta R.T. -0.000 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 28316 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 12.8  | 10.4  | 15.6  |
| 129      | 10.2  | 8.6   | 13.0  |



#72  
1,2,3-Trichlorobenzene  
Concen: 2.516 ug/L  
RT: 14.333 min Scan# 4041  
Delta R.T. -0.000 min  
Lab File: VU045485.D  
Acq: 01 Nov 2021 13:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 8134  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 96.2  | 75.7  | 113.5 |
| 145      | 31.5  | 27.0  | 40.4  |

