

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY101025\  
 Data File : VY023435.D  
 Acq On : 10 Oct 2025 13:40  
 Operator : SY/MD  
 Sample : Q3323-02  
 Misc : 3.46g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SED-02-0-2

Quant Time: Oct 11 01:57:29 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100725S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 08 05:12:50 2025  
 Response via : Initial Calibration

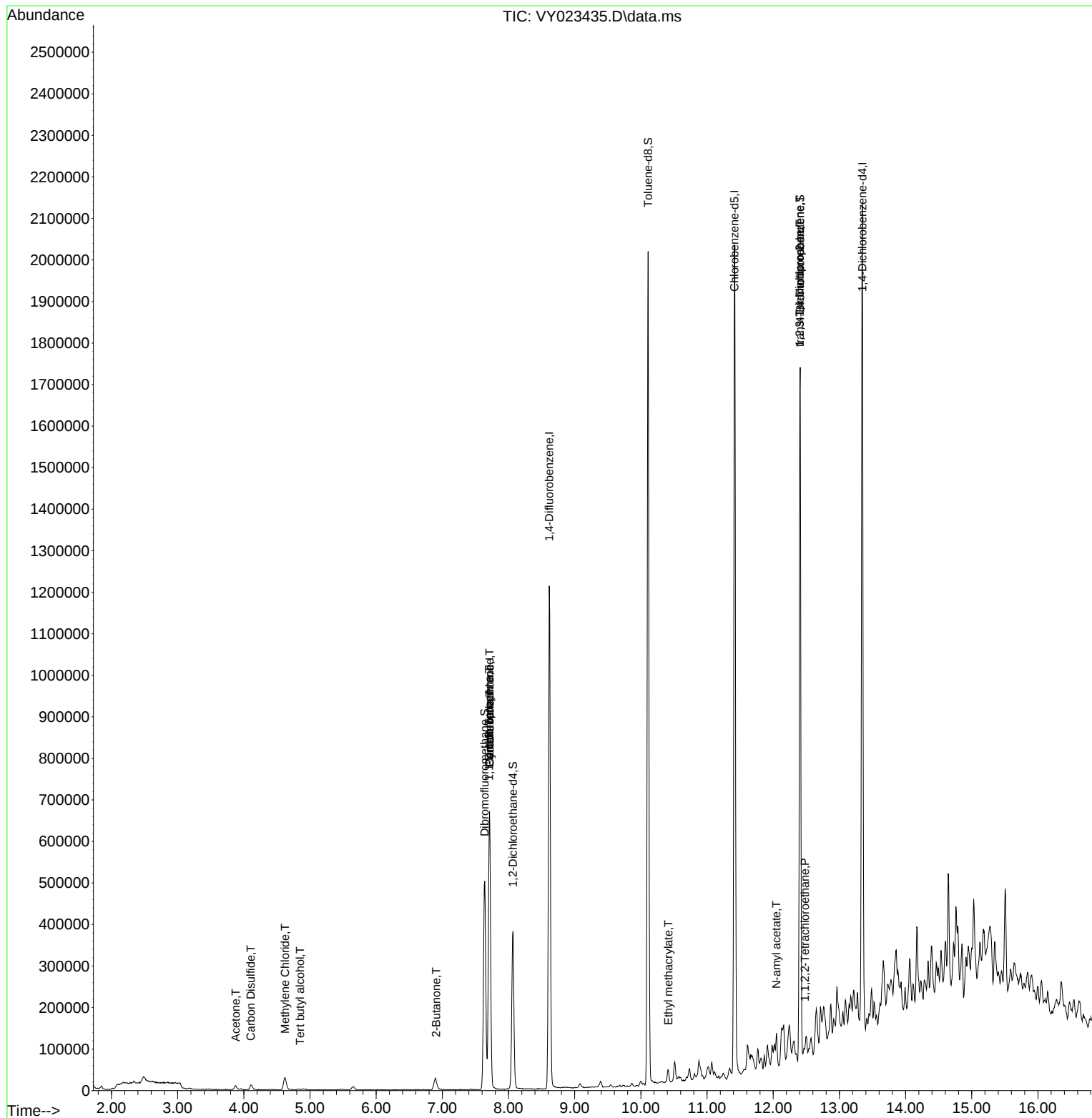
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 7.713  | 168   | 566681   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.616  | 114   | 1088713  | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.414 | 117   | 1150595  | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.347 | 152   | 533404   | 50.000   | ug/l       | 0.00     |
|                               |        |       |          |          |            |          |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.067  | 65    | 298342   | 62.959   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | = 125.920% |          |
| 35) Dibromofluoromethane      | 7.640  | 113   | 359608   | 53.756   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | = 107.520% |          |
| 50) Toluene-d8                | 10.109 | 98    | 1347045  | 54.070   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery | = 108.140% |          |
| 62) 4-Bromofluorobenzene      | 12.408 | 95    | 491472   | 59.754   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery | = 119.500% |          |
|                               |        |       |          |          |            |          |
| Target Compounds              |        |       |          |          |            | Qvalue   |
| 11) Tert butyl alcohol        | 4.848  | 59    | 1202     | 3.410    | ug/l #     | 72       |
| 16) Acetone                   | 3.879  | 43    | 15326    | 13.585   | ug/l       | 99       |
| 17) Carbon Disulfide          | 4.104  | 76    | 24235    | 1.675    | ug/l       | 99       |
| 20) Methylene Chloride        | 4.622  | 84    | 23577    | 3.865    | ug/l       | 92       |
| 25) 2-Butanone                | 6.909  | 43    | 5903     | 4.286    | ug/l #     | 71       |
| 31) Cyclohexane               | 7.713  | 56    | 9611     | 1.219    | ug/l #     | 9        |
| 36) 1,1-Dichloropropene       | 7.707  | 75    | 36693    | 4.143    | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 7.713  | 117   | 52305    | 4.871    | ug/l #     | 17       |
| 56) Ethyl methacrylate        | 10.414 | 69    | 8034     | 1.322    | ug/l #     | 87       |
| 74) N-amyl acetate            | 12.048 | 43    | 15807    | 2.504    | ug/l #     | 37       |
| 75) 1,1,2,2-Tetrachloroethane | 12.481 | 83    | 6422     | 1.117    | ug/l #     | 70       |
| 76) 1,2,3-Trichloropropane    | 12.402 | 75    | 242265   | 51.480   | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.402 | 75    | 242265   | 126.238  | ug/l #     | 15       |
| -----                         |        |       |          |          |            |          |

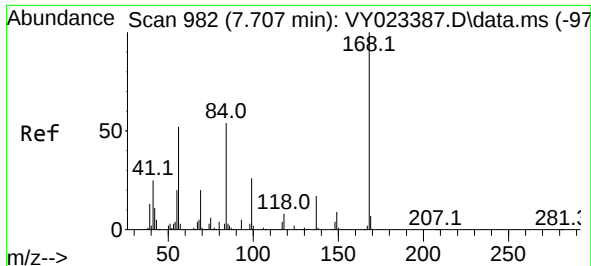
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY101025\  
Data File : VY023435.D  
Acq On : 10 Oct 2025 13:40  
Operator : SY/MD  
Sample : Q3323-02  
Misc : 3.46g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SED-02-0-2

Quant Time: Oct 11 01:57:29 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100725S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 08 05:12:50 2025  
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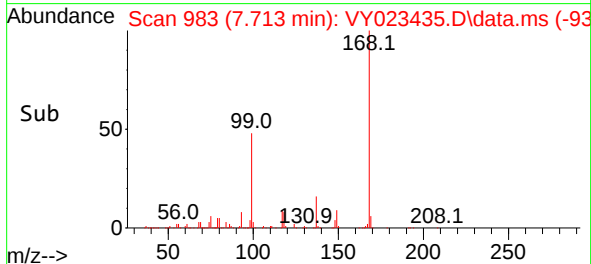
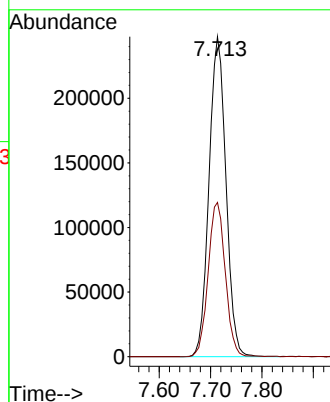
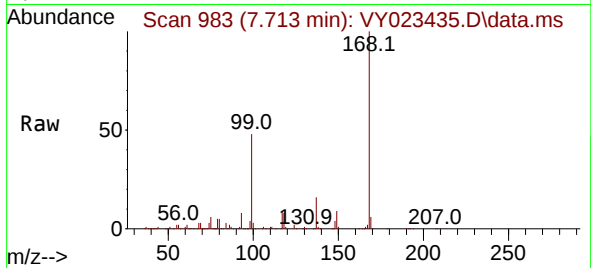




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY023435.D  
Acq: 10 Oct 2025 13:40

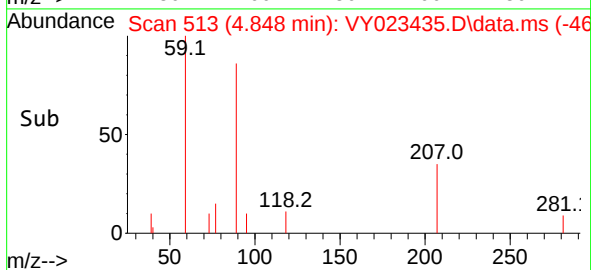
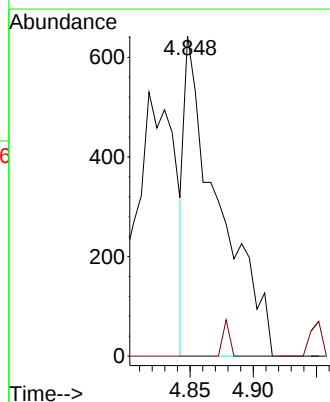
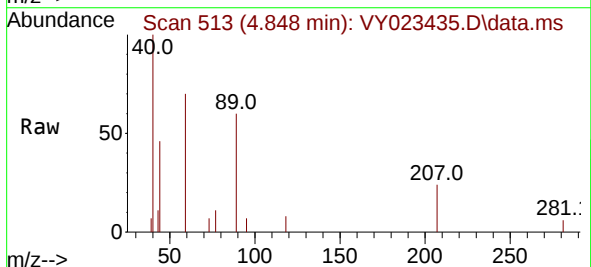
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SED-02-0-2

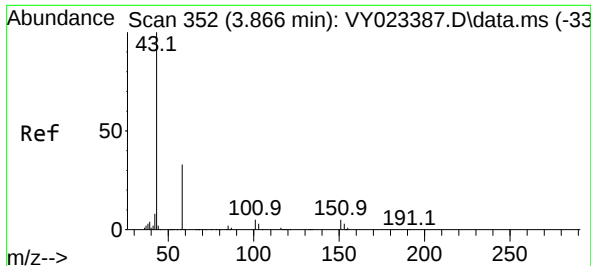
Tgt Ion:168 Resp: 566681  
Ion Ratio Lower Upper  
168 100  
99 48.2 39.7 59.5



#11  
Tert butyl alcohol  
Concen: 3.410 ug/l  
RT: 4.848 min Scan# 513  
Delta R.T. -0.012 min  
Lab File: VY023435.D  
Acq: 10 Oct 2025 13:40

Tgt Ion: 59 Resp: 1202  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#





#16

Acetone

Concen: 13.585 ug/l

RT: 3.879 min Scan# 3

Delta R.T. 0.012 min

Lab File: VY023435.D

Acq: 10 Oct 2025 13:40

Instrument :

MSVOA\_Y

ClientSampleId :

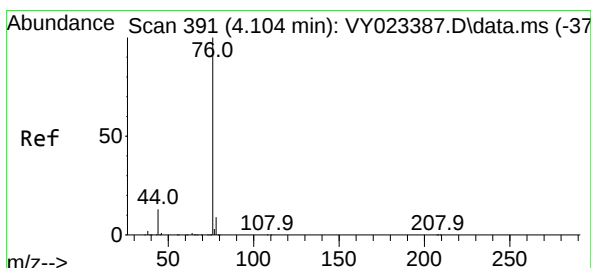
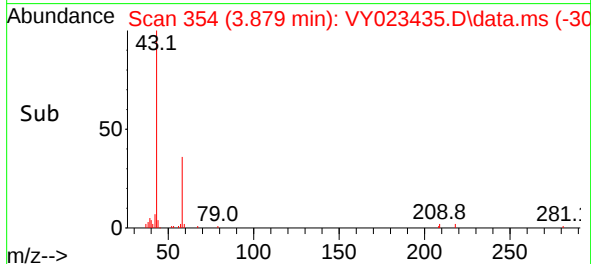
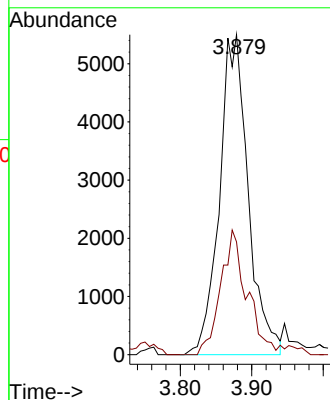
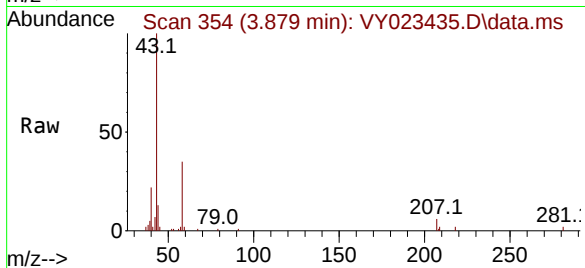
SED-02-0-2

Tgt Ion: 43 Resp: 15326

Ion Ratio Lower Upper

43 100

58 35.3 27.7 41.5



#17

Carbon Disulfide

Concen: 1.675 ug/l

RT: 4.104 min Scan# 391

Delta R.T. 0.000 min

Lab File: VY023435.D

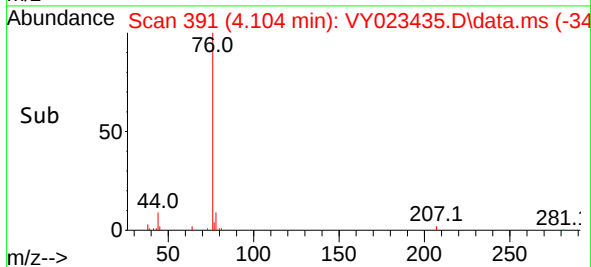
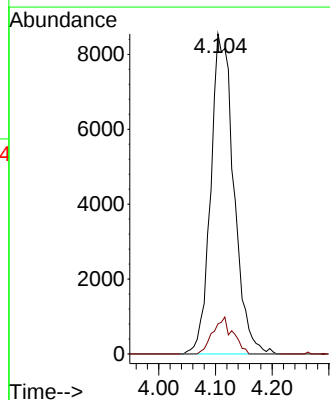
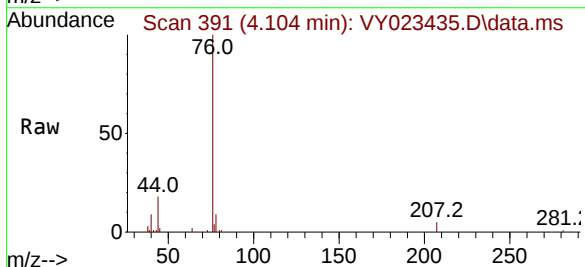
Acq: 10 Oct 2025 13:40

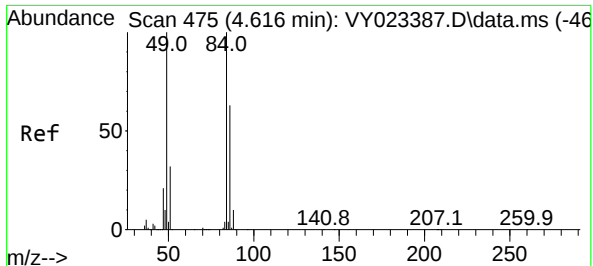
Tgt Ion: 76 Resp: 24235

Ion Ratio Lower Upper

76 100

78 9.4 7.3 10.9





#20

Methylene Chloride

Concen: 3.865 ug/l

RT: 4.622 min Scan# 41

Delta R.T. 0.006 min

Lab File: VY023435.D

Acq: 10 Oct 2025 13:40

Instrument :

MSVOA\_Y

ClientSampleId :

SED-02-0-2

Tgt Ion: 84 Resp: 23577

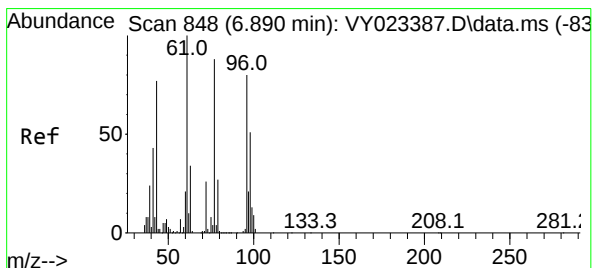
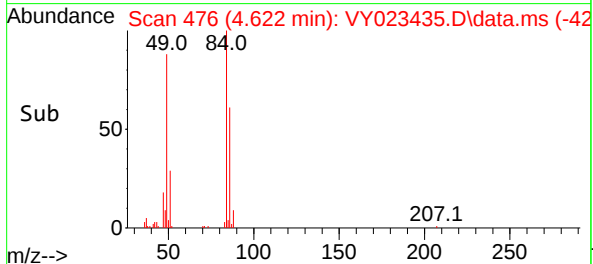
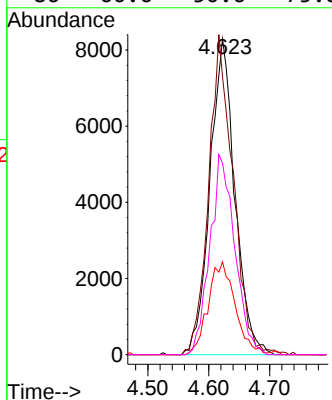
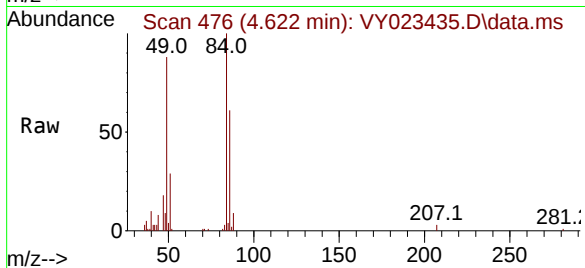
Ion Ratio Lower Upper

84 100

49 88.0 80.2 120.4

51 29.4 25.9 38.9

86 60.6 50.6 75.8



#25

2-Butanone

Concen: 4.286 ug/l

RT: 6.909 min Scan# 851

Delta R.T. 0.018 min

Lab File: VY023435.D

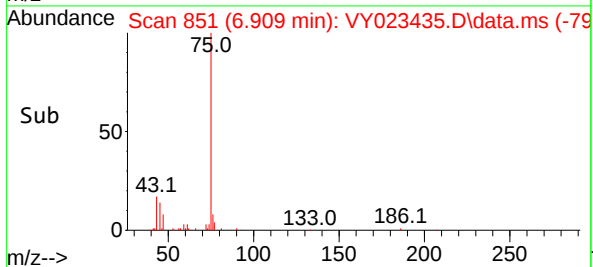
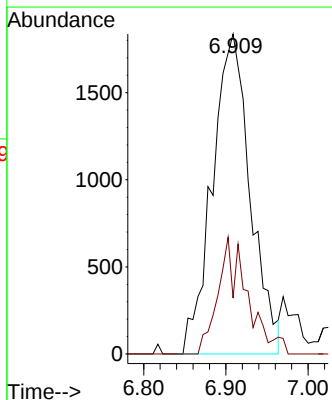
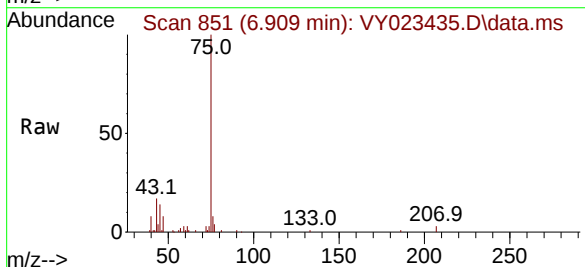
Acq: 10 Oct 2025 13:40

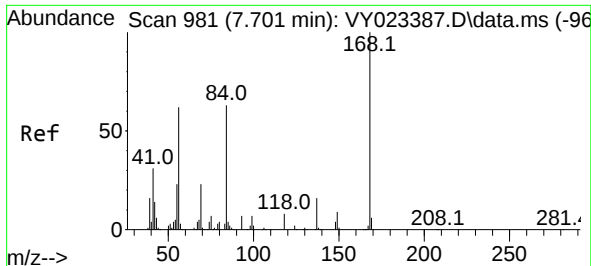
Tgt Ion: 43 Resp: 5903

Ion Ratio Lower Upper

43 100

72 17.5 27.4 41.2#

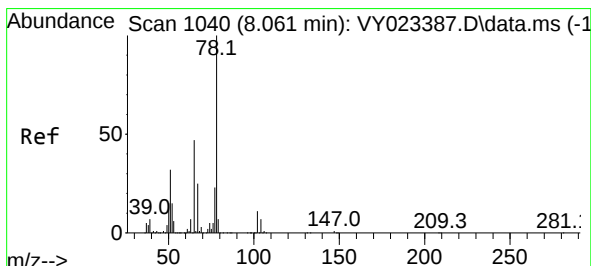
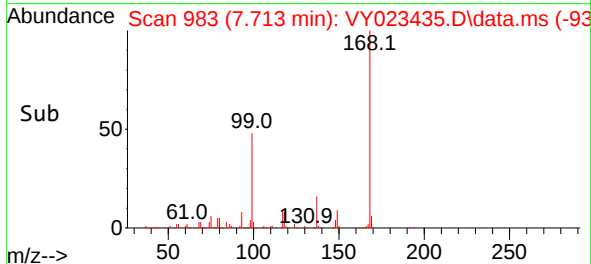
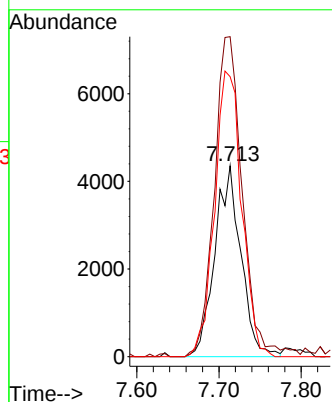
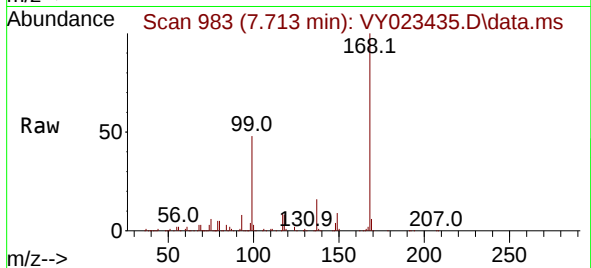




#31  
Cyclohexane  
Concen: 1.219 ug/l  
RT: 7.713 min Scan# 981  
Delta R.T. 0.012 min  
Lab File: VY023435.D  
Acq: 10 Oct 2025 13:40

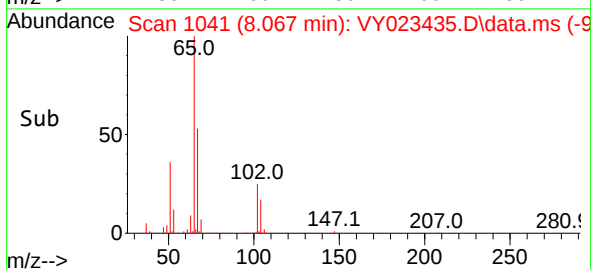
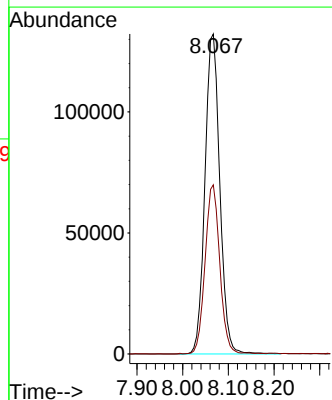
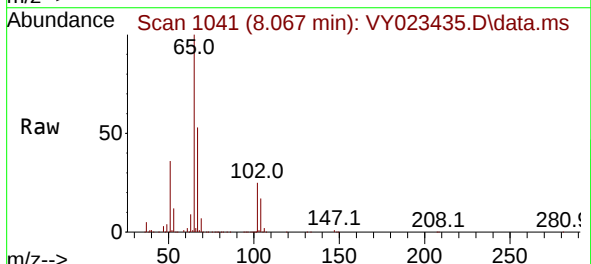
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SED-02-0-2

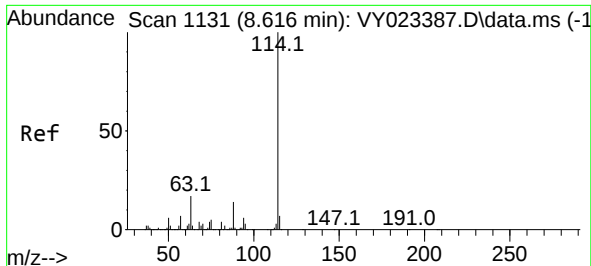
Tgt Ion: 56 Resp: 9611  
Ion Ratio Lower Upper  
56 100  
69 167.6 30.0 45.0#  
84 146.7 81.2 121.8#



#33  
1,2-Dichloroethane-d4  
Concen: 62.959 ug/l  
RT: 8.067 min Scan# 1041  
Delta R.T. 0.006 min  
Lab File: VY023435.D  
Acq: 10 Oct 2025 13:40

Tgt Ion: 65 Resp: 298342  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 105.8

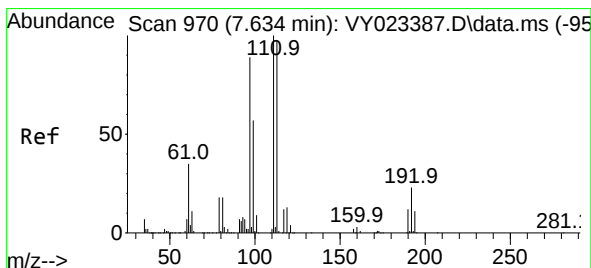
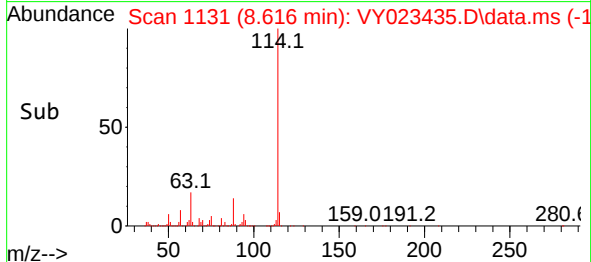
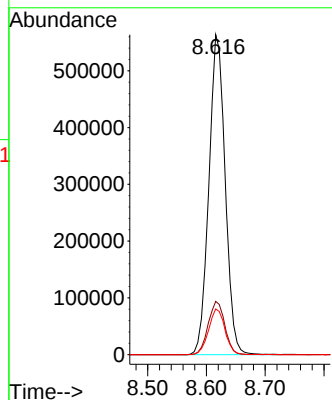
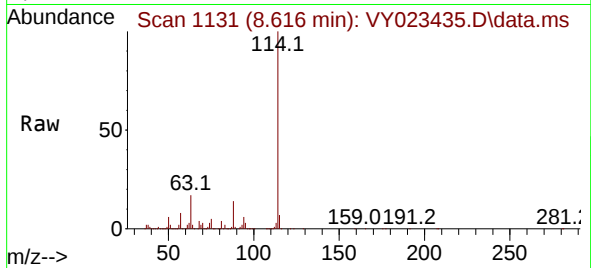




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.616 min Scan# 1131  
Delta R.T. 0.000 min  
Lab File: VY023435.D  
Acq: 10 Oct 2025 13:40

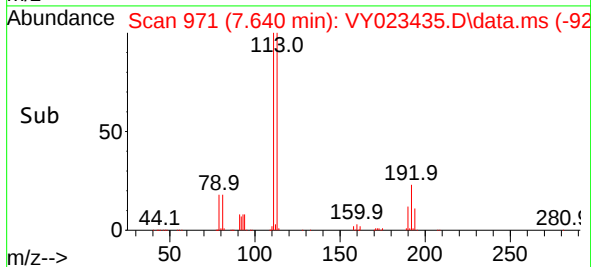
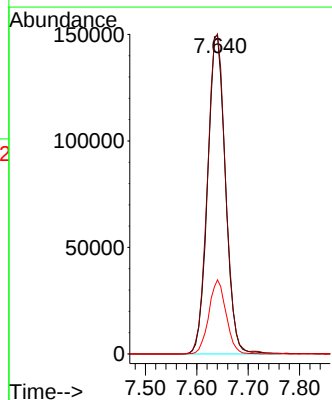
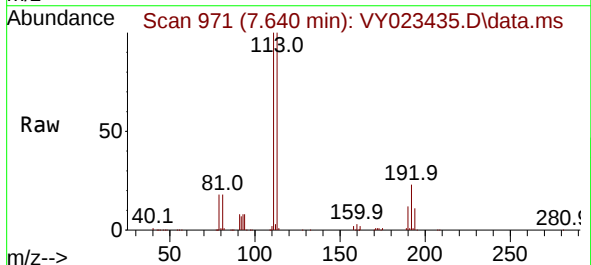
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SED-02-0-2

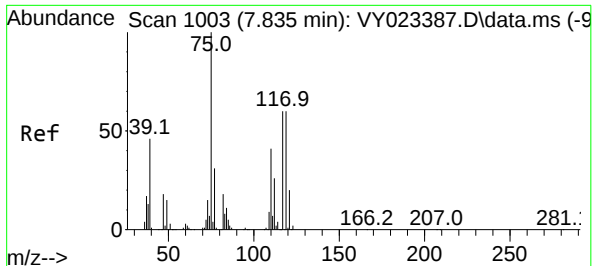
Tgt Ion:114 Resp: 1088713  
Ion Ratio Lower Upper  
114 100  
63 16.7 0.0 34.2  
88 14.3 0.0 28.4



#35  
Dibromofluoromethane  
Concen: 53.756 ug/l  
RT: 7.640 min Scan# 971  
Delta R.T. 0.006 min  
Lab File: VY023435.D  
Acq: 10 Oct 2025 13:40

Tgt Ion:113 Resp: 359608  
Ion Ratio Lower Upper  
113 100  
111 102.4 81.8 122.6  
192 22.5 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.143 ug/l

RT: 7.707 min Scan# 91

Delta R.T. -0.128 min

Lab File: VY023435.D

Acq: 10 Oct 2025 13:40

Instrument :

MSVOA\_Y

ClientSampleId :

SED-02-0-2

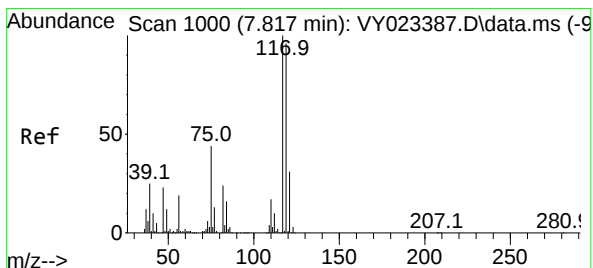
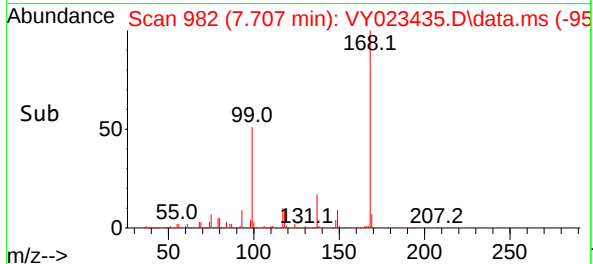
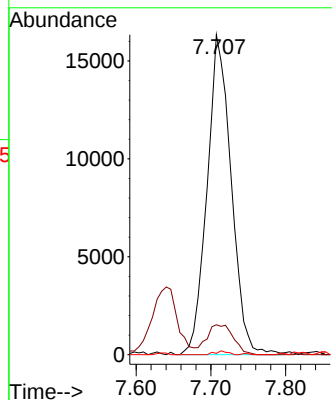
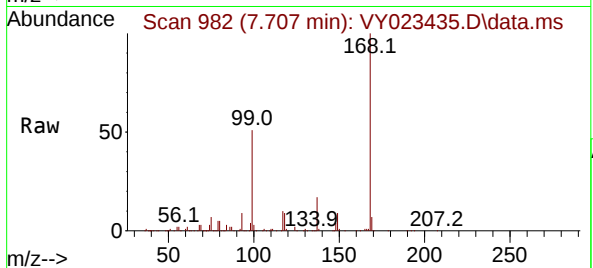
Tgt Ion: 75 Resp: 36693

Ion Ratio Lower Upper

75 100

110 10.5 19.9 59.7#

77 0.6 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 4.871 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.104 min

Lab File: VY023435.D

Acq: 10 Oct 2025 13:40

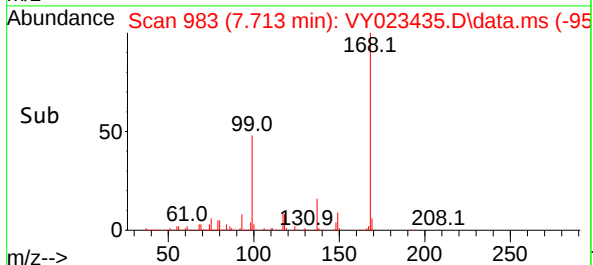
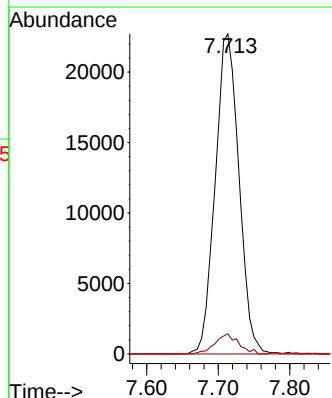
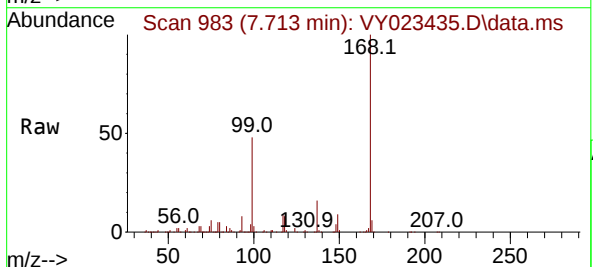
Tgt Ion: 117 Resp: 52305

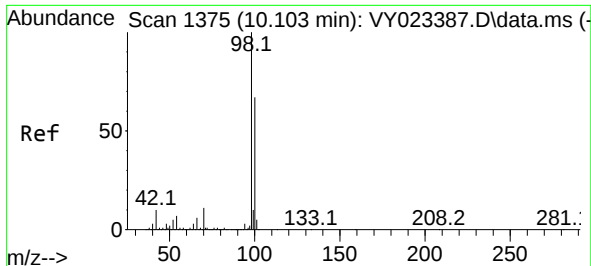
Ion Ratio Lower Upper

117 100

119 6.3 76.8 115.2#

121 0.0 24.5 36.7#

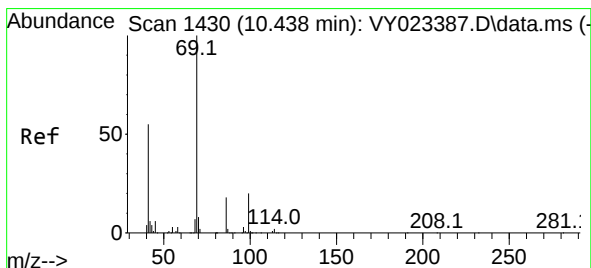
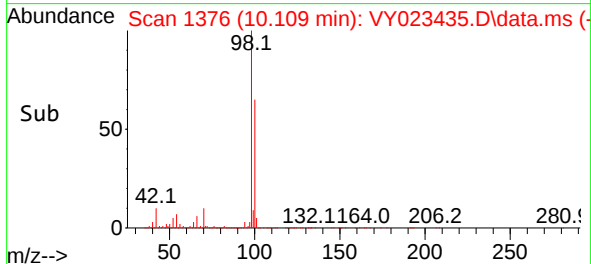
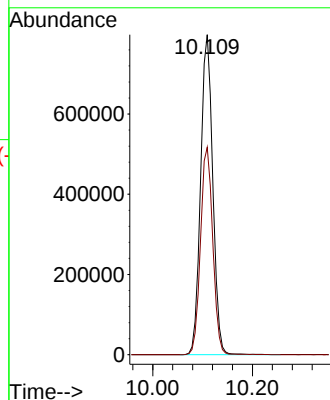
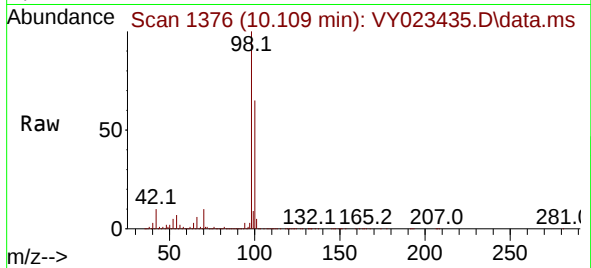




#50  
Toluene-d8  
Concen: 54.070 ug/l  
RT: 10.109 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY023435.D  
Acq: 10 Oct 2025 13:40

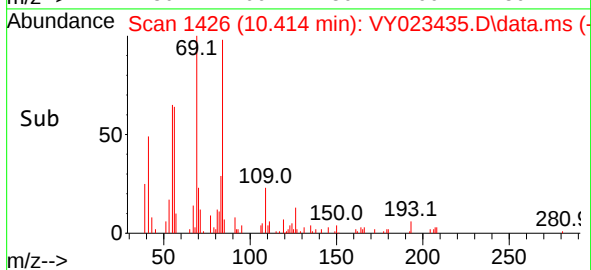
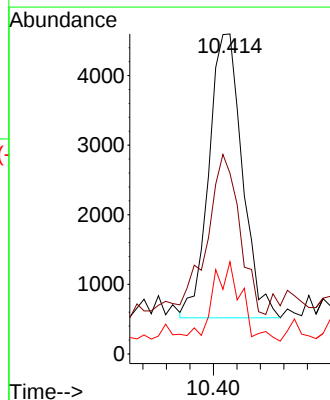
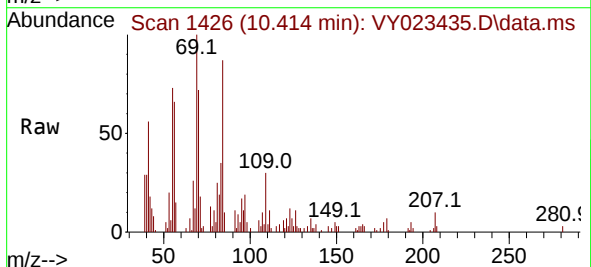
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SED-02-0-2

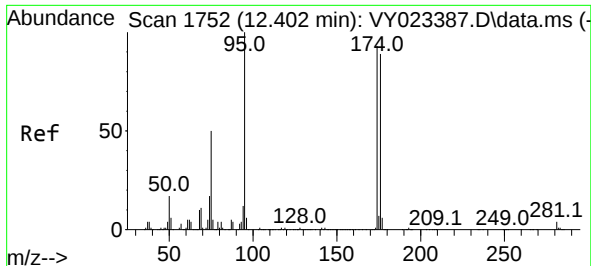
Tgt Ion: 98 Resp: 1347045  
Ion Ratio Lower Upper  
98 100  
100 65.4 53.0 79.4



#56  
Ethyl methacrylate  
Concen: 1.322 ug/l  
RT: 10.414 min Scan# 1426  
Delta R.T. -0.024 min  
Lab File: VY023435.D  
Acq: 10 Oct 2025 13:40

Tgt Ion: 69 Resp: 8034  
Ion Ratio Lower Upper  
69 100  
41 62.9 44.6 67.0  
39 24.0 27.0 40.4#

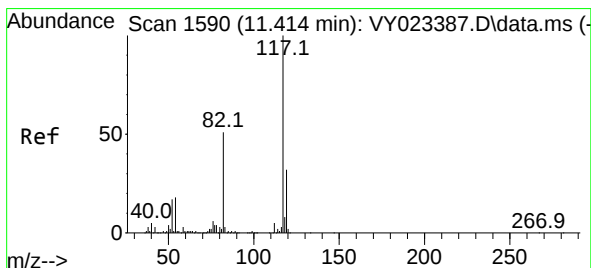
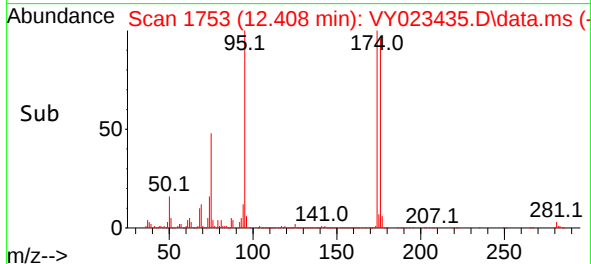
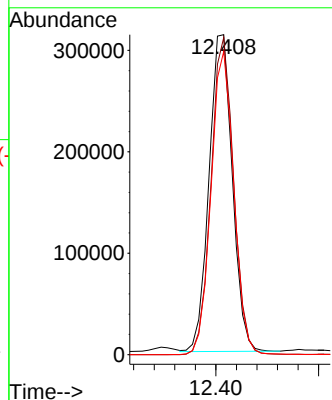
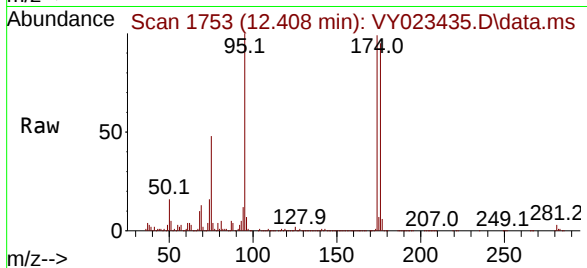




#62  
4-Bromofluorobenzene  
Concen: 59.754 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.006 min  
Lab File: VY023435.D  
Acq: 10 Oct 2025 13:40

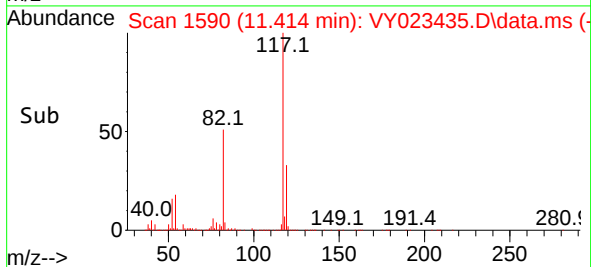
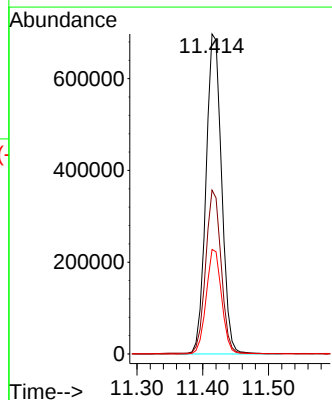
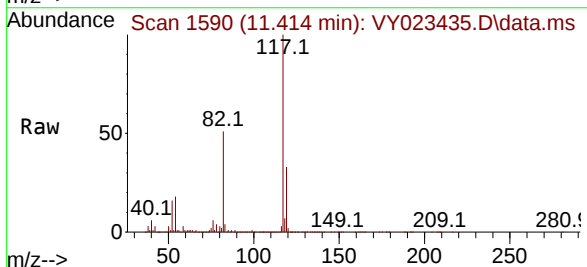
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SED-02-0-2

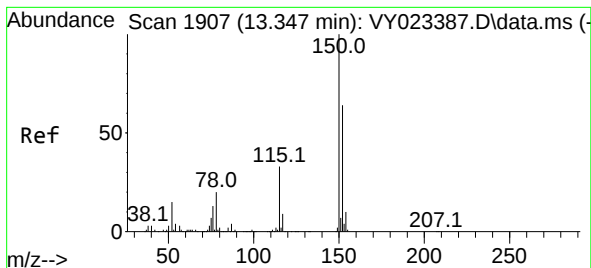
Tgt Ion: 95 Resp: 491472  
Ion Ratio Lower Upper  
95 100  
174 97.1 0.0 192.8  
176 93.4 0.0 187.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.414 min Scan# 1590  
Delta R.T. 0.000 min  
Lab File: VY023435.D  
Acq: 10 Oct 2025 13:40

Tgt Ion: 117 Resp: 1150595  
Ion Ratio Lower Upper  
117 100  
82 51.0 41.0 61.4  
119 32.6 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY023435.D

Acq: 10 Oct 2025 13:40

Instrument :

MSVOA\_Y

ClientSampleId :

SED-02-0-2

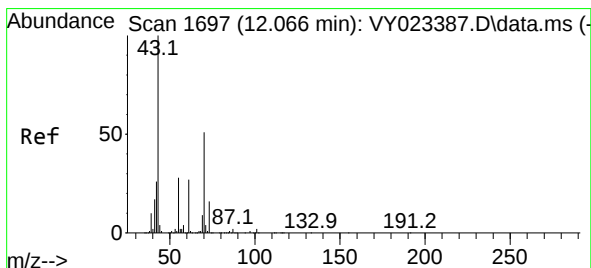
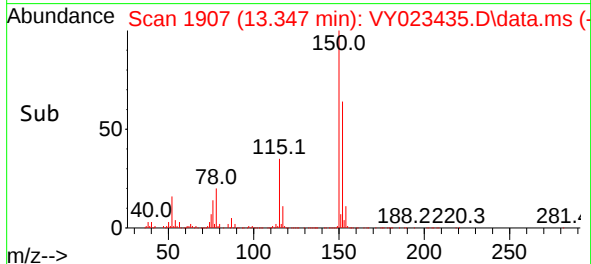
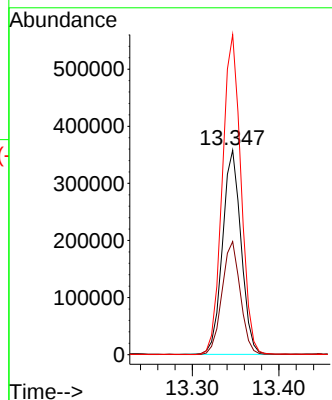
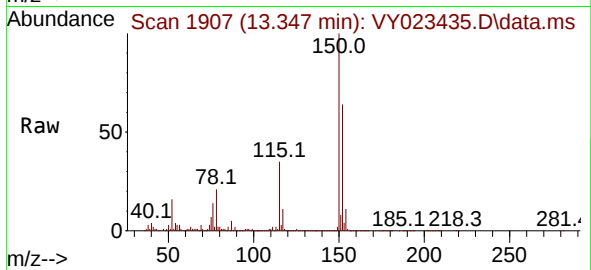
Tgt Ion:152 Resp: 533404

Ion Ratio Lower Upper

152 100

115 54.5 27.1 81.2

150 157.3 0.0 347.4



#74

N-ethyl acetate

Concen: 2.504 ug/l

RT: 12.048 min Scan# 1694

Delta R.T. -0.018 min

Lab File: VY023435.D

Acq: 10 Oct 2025 13:40

Tgt Ion: 43 Resp: 15807

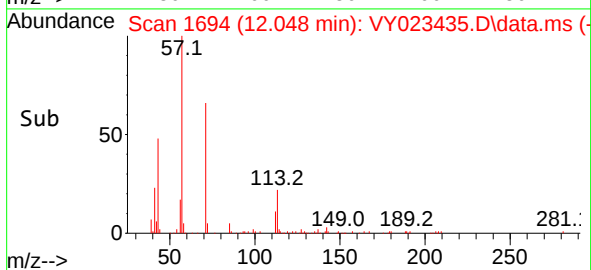
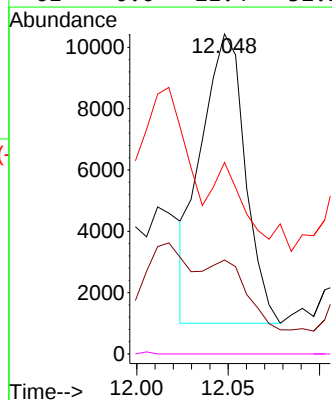
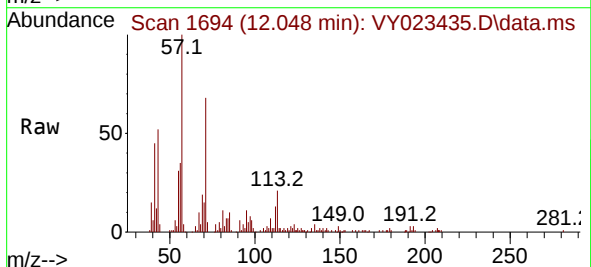
Ion Ratio Lower Upper

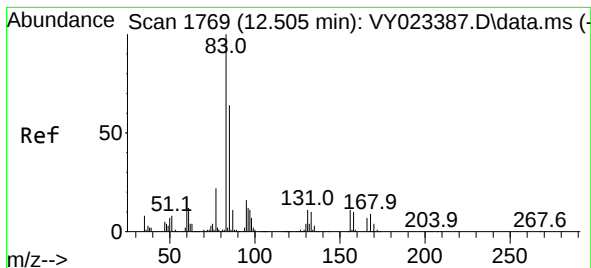
43 100

70 0.0 41.1 61.7#

55 0.0 23.0 34.6#

61 0.0 21.4 32.2#





#75

1,1,2,2-Tetrachloroethane

Concen: 1.117 ug/l

RT: 12.481 min Scan# 1752

Delta R.T. -0.024 min

Lab File: VY023435.D

Acq: 10 Oct 2025 13:40

Instrument :

MSVOA\_Y

ClientSampleId :

SED-02-0-2

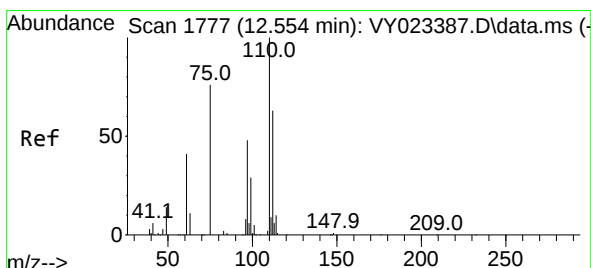
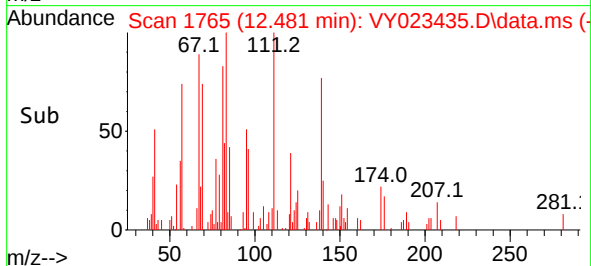
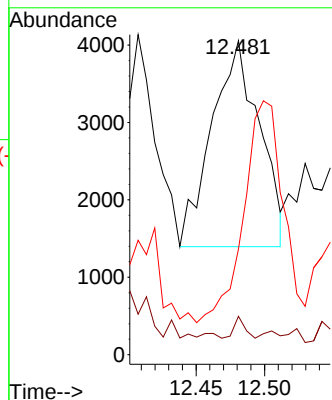
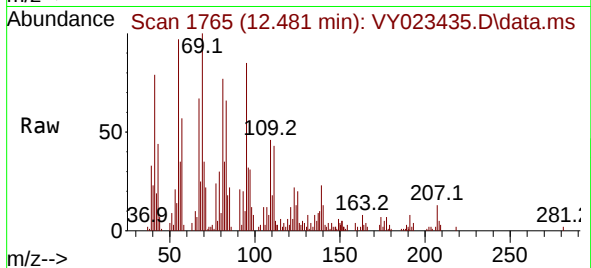
Tgt Ion: 83 Resp: 6422

Ion Ratio Lower Upper

83 100

131 2.3 5.9 17.6#

85 88.1 31.8 95.3



#76

1,2,3-Trichloropropane

Concen: 51.480 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.152 min

Lab File: VY023435.D

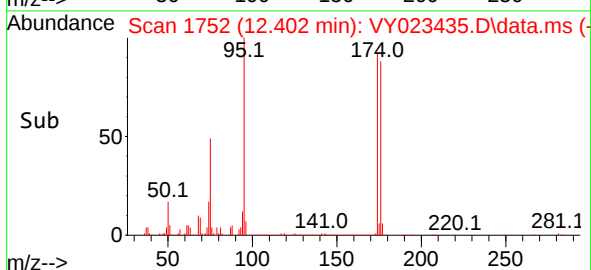
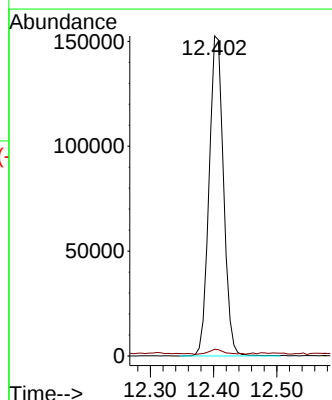
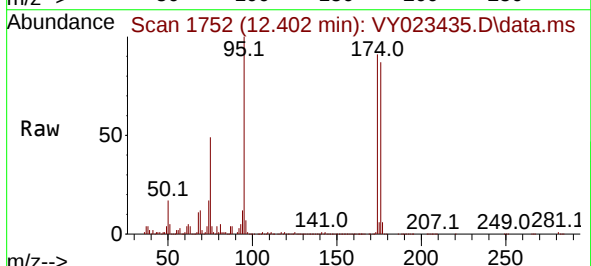
Acq: 10 Oct 2025 13:40

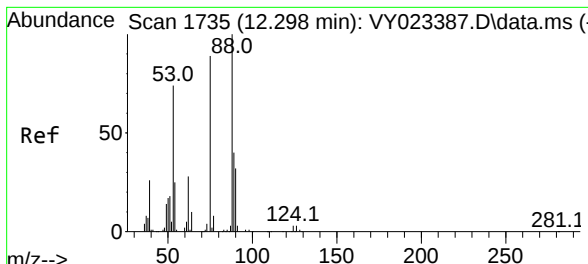
Tgt Ion: 75 Resp: 242265

Ion Ratio Lower Upper

75 100

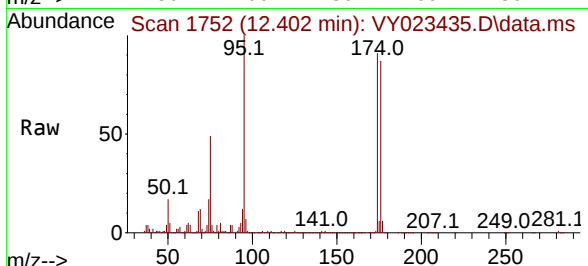
77 1.7 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 126.238 ug/l  
 RT: 12.402 min Scan# 11  
 Delta R.T. 0.104 min  
 Lab File: VY023435.D  
 Acq: 10 Oct 2025 13:40

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SED-02-0-2



Tgt Ion: 75 Resp: 242265  
 Ion Ratio Lower Upper  
 75 100  
 53 0.9 68.6 102.8#  
 89 0.0 39.0 58.4#

