

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL021725\  
 Data File : VL042025.D  
 Acq On : 17 Feb 2025 11:55  
 Operator : SY/MD  
 Sample : VL0217ABL01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Feb 18 00:17:45 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL021425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Feb 18 00:13:37 2025  
 Response via : Initial Calibration

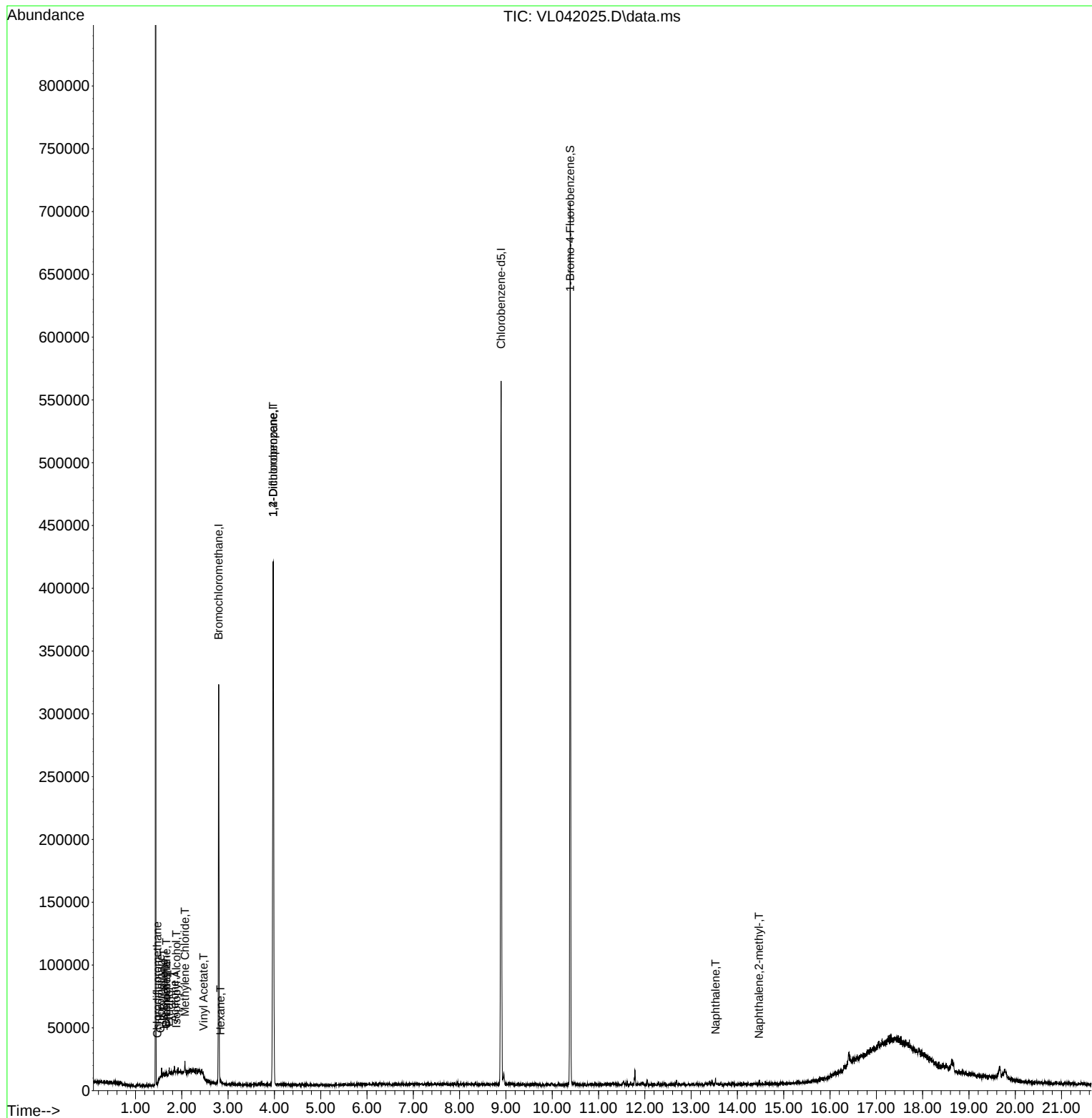
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.797  | 49    | 86507    | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.975  | 114   | 261012   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.898  | 117   | 231952   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.387 | 95    | 197471   | 10.321   | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 103.200% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 3) Chlorodifluoromethane    | 1.470  | 51    | 816      | 0.050    | ppbv # | 58       |
| 4) Chloromethane            | 1.538  | 50    | 254      | 0.044    | ppbv # | 42       |
| 6) Bromomethane             | 1.670  | 94    | 159      | 0.059    | ppbv # | 6        |
| 7) Chloroethane             | 1.667  | 64    | 106      | 0.047    | ppbv # | 42       |
| 13) Ethanol                 | 1.725  | 45    | 456      | 0.570    | ppbv # | 30       |
| 15) Acetone                 | 1.842  | 43    | 1731     | 0.121    | ppbv # | 71       |
| 16) 1,3-Butadiene           | 1.609  | 39    | 320      | 0.047    | ppbv # | 12       |
| 19) Isopropyl Alcohol       | 1.884  | 45    | 359      | 0.045    | ppbv # | 1        |
| 20) Methylene Chloride      | 2.068  | 84    | 1253     | 0.233    | ppbv # | 76       |
| 23) Vinyl Acetate           | 2.473  | 43    | 266      | 0.034    | ppbv # | 1        |
| 26) Hexane                  | 2.835  | 57    | 639      | 0.041    | ppbv # | 65       |
| 39) 1,2-Dichloropropane     | 3.975  | 63    | 66398    | 5.728    | ppbv # | 24       |
| 79) Naphthalene             | 13.529 | 128   | 1876     | 0.043    | ppbv # | 85       |
| 80) Naphthalene,2-methyl-   | 14.468 | 142   | 728      | 0.037    | ppbv # | 77       |
| -----                       |        |       |          |          |        |          |

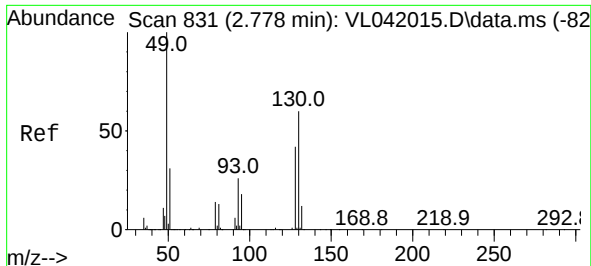
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL021725\  
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Sample : VL0217ABL01  
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Instrument :  
MSVOA\_L  
ClientSampleId :

Quant Time: Feb 18 00:17:45 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL021425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Feb 18 00:13:37 2025  
Response via : Initial Calibration

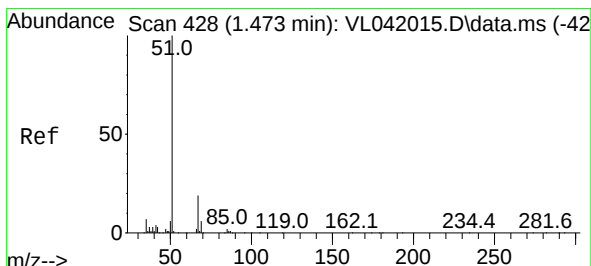
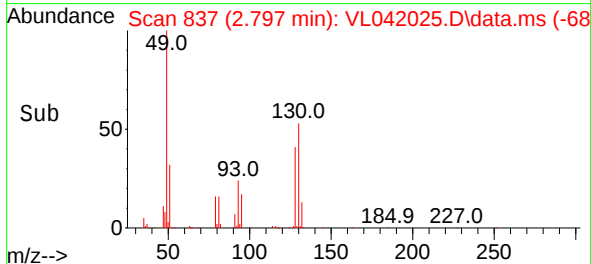
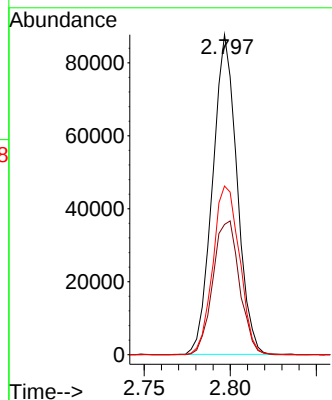
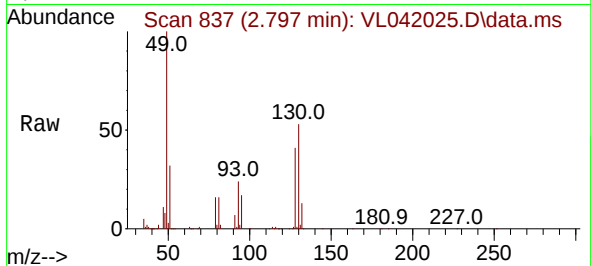




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.797 min Scan# 841  
Delta R.T. -0.003 min  
Lab File: VL042025.D  
Acq: 17 Feb 2025 11:55

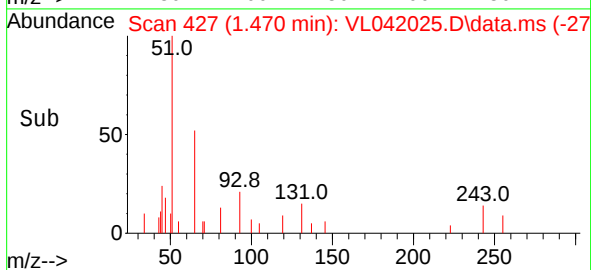
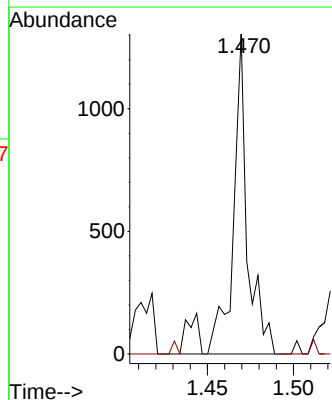
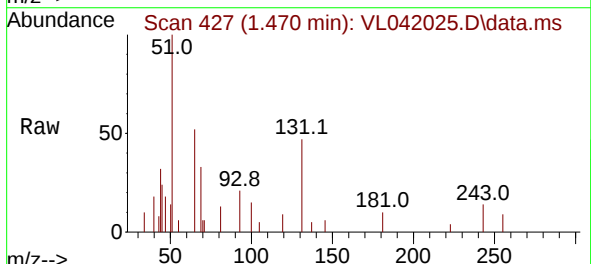
Instrument :  
MSVOA\_L  
ClientSampleId :

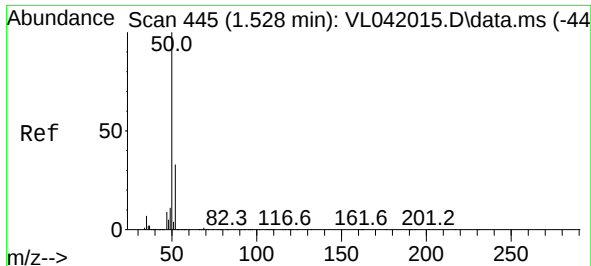
Tgt Ion: 49 Resp: 86507  
Ion Ratio Lower Upper  
49 100  
128 45.7 22.7 68.0  
130 57.5 29.9 89.8



#3  
Chlorodifluoromethane  
Concen: 0.050 ppbv  
RT: 1.470 min Scan# 427  
Delta R.T. -0.010 min  
Lab File: VL042025.D  
Acq: 17 Feb 2025 11:55

Tgt Ion: 51 Resp: 816  
Ion Ratio Lower Upper  
51 100  
67 0.0 15.0 22.6#

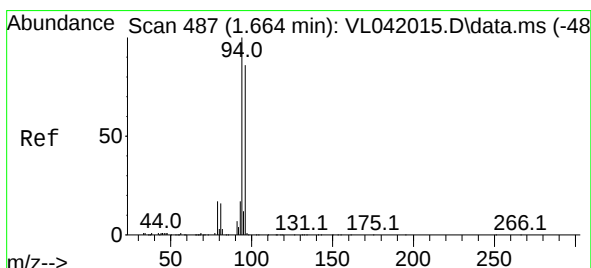
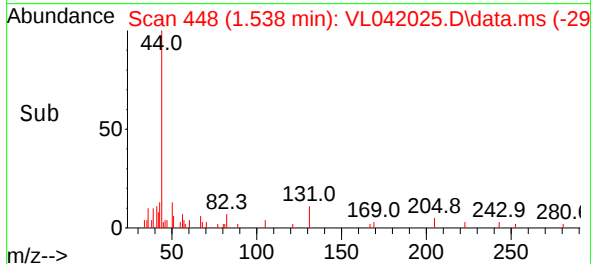
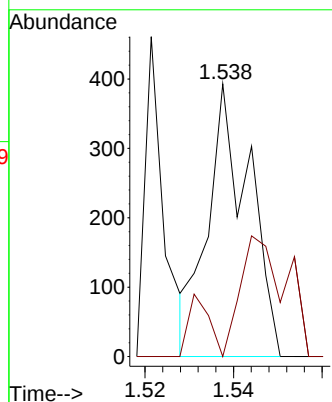
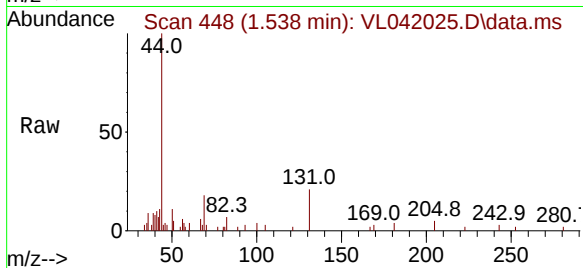




#4  
Chloromethane  
Concen: 0.044 ppbv  
RT: 1.538 min Scan# 445  
Delta R.T. 0.000 min  
Lab File: VL042025.D  
Acq: 17 Feb 2025 11:55

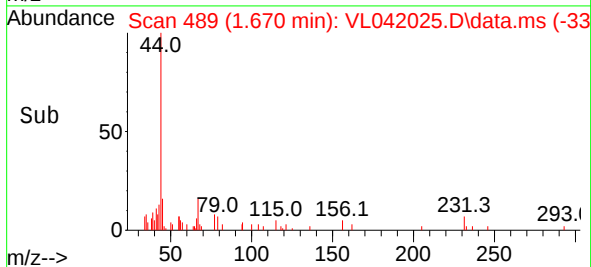
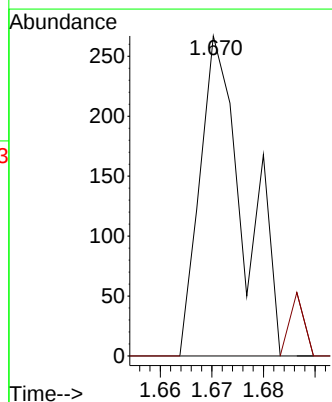
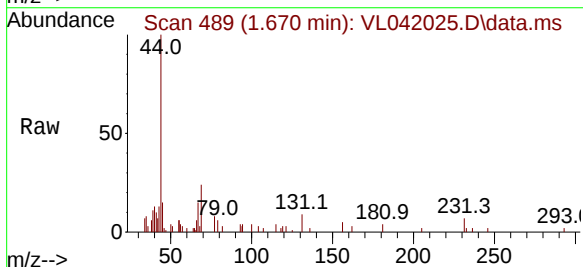
Instrument :  
MSVOA\_L  
ClientSampleId :

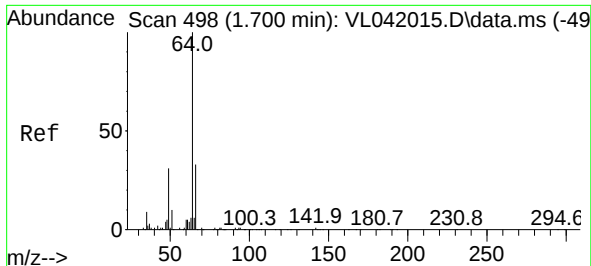
Tgt Ion: 50 Resp: 254  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.2 39.2#



#6  
Bromomethane  
Concen: 0.059 ppbv  
RT: 1.670 min Scan# 489  
Delta R.T. -0.003 min  
Lab File: VL042025.D  
Acq: 17 Feb 2025 11:55

Tgt Ion: 94 Resp: 159  
Ion Ratio Lower Upper  
94 100  
96 0.0 69.0 103.6#

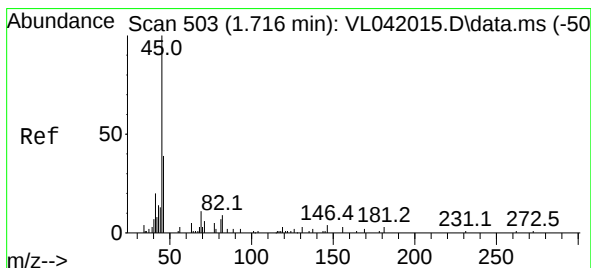
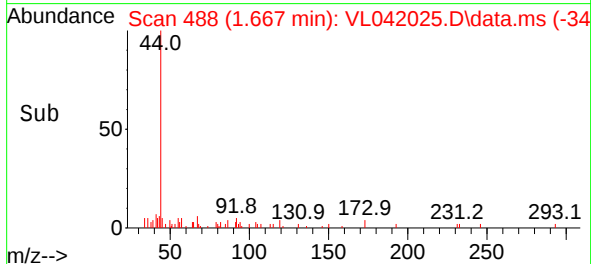
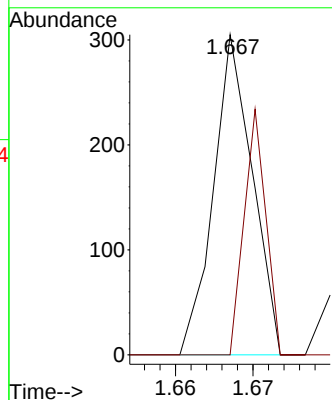
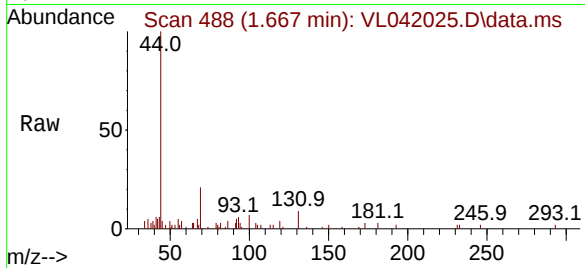




#7  
Chloroethane  
Concen: 0.047 ppbv  
RT: 1.667 min Scan# 41  
Delta R.T. -0.042 min  
Lab File: VL042025.D  
Acq: 17 Feb 2025 11:55

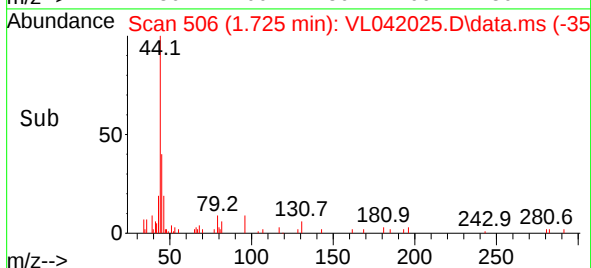
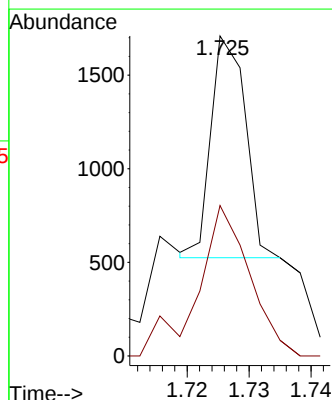
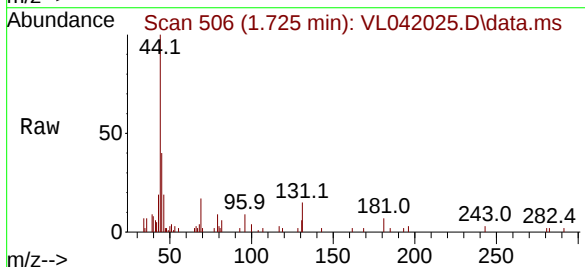
Instrument :  
MSVOA\_L  
ClientSampleId :

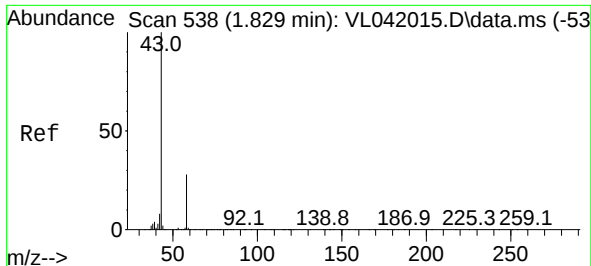
Tgt Ion: 64 Resp: 106  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.5 39.7#



#13  
Ethanol  
Concen: 0.570 ppbv  
RT: 1.725 min Scan# 506  
Delta R.T. -0.003 min  
Lab File: VL042025.D  
Acq: 17 Feb 2025 11:55

Tgt Ion: 45 Resp: 456  
Ion Ratio Lower Upper  
45 100  
46 103.1 21.3 85.1#





#15

Acetone

Concen: 0.121 ppbv

RT: 1.842 min Scan# 54

Delta R.T. 0.000 min

Lab File: VL042025.D

Acq: 17 Feb 2025 11:55

Instrument :

MSVOA\_L

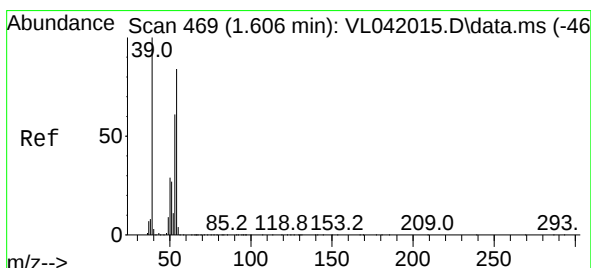
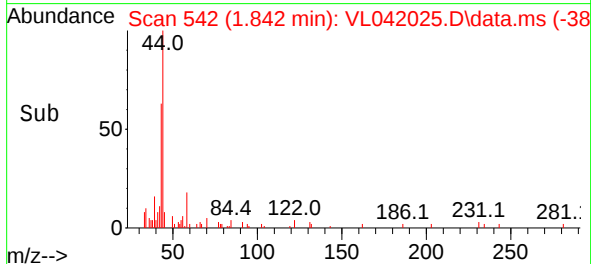
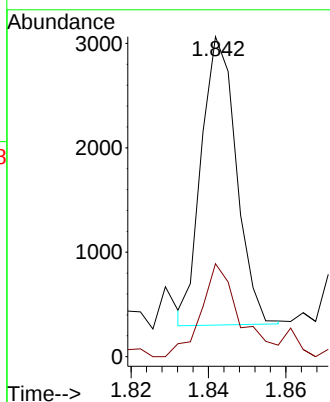
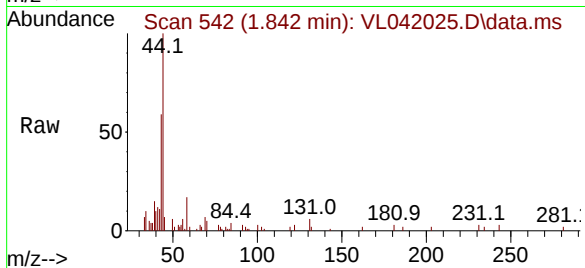
ClientSampleId :

Tgt Ion: 43 Resp: 1731

Ion Ratio Lower Upper

43 100

58 44.0 22.9 34.3#



#16

1,3-Butadiene

Concen: 0.047 ppbv

RT: 1.609 min Scan# 470

Delta R.T. -0.006 min

Lab File: VL042025.D

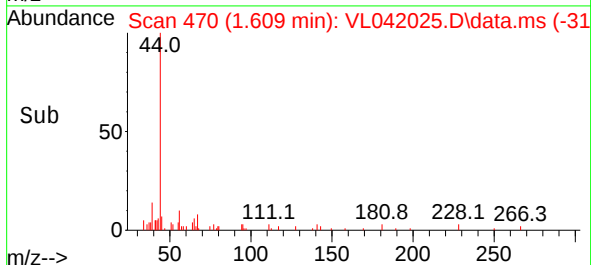
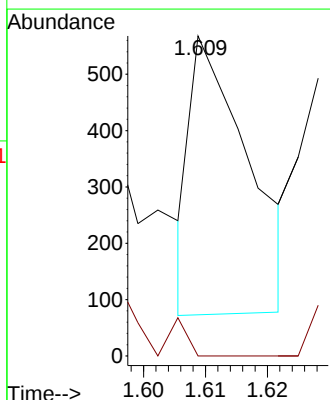
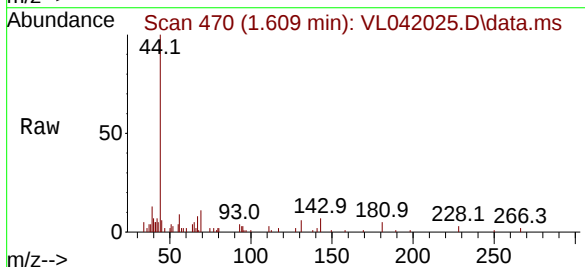
Acq: 17 Feb 2025 11:55

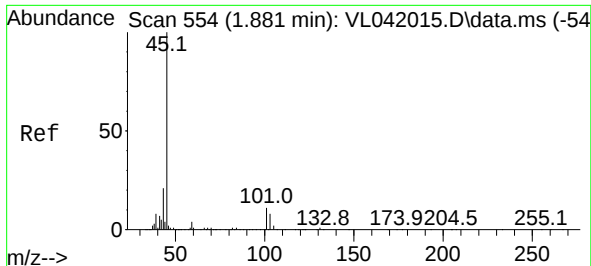
Tgt Ion: 39 Resp: 320

Ion Ratio Lower Upper

39 100

54 0.0 59.4 89.2#





#19

Isopropyl Alcohol

Concen: 0.045 ppbv

RT: 1.884 min Scan# 51

Delta R.T. -0.010 min

Lab File: VL042025.D

Acq: 17 Feb 2025 11:55

Instrument :

MSVOA\_L

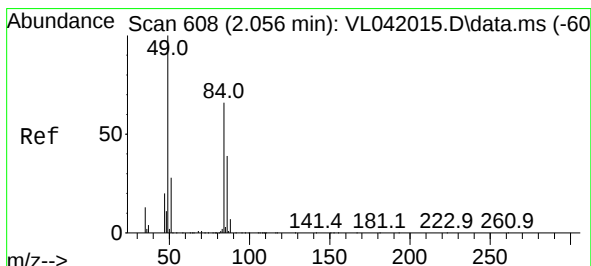
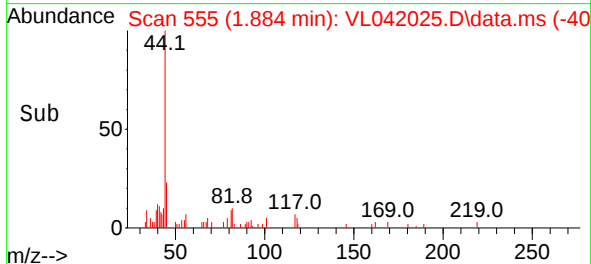
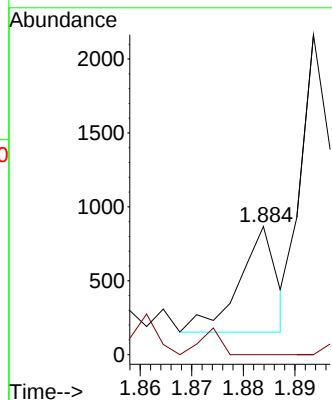
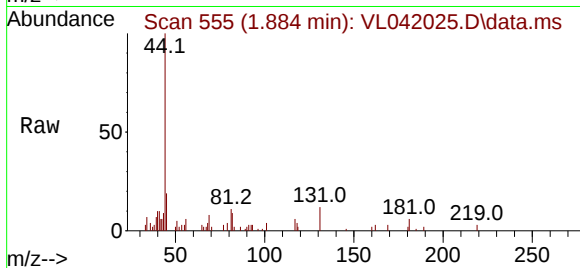
ClientSampleId :

Tgt Ion: 45 Resp: 359

Ion Ratio Lower Upper

45 100

58 212.0 36.2 54.4#



#20

Methylene Chloride

Concen: 0.233 ppbv

RT: 2.068 min Scan# 612

Delta R.T. 0.000 min

Lab File: VL042025.D

Acq: 17 Feb 2025 11:55

Tgt Ion: 84 Resp: 1253

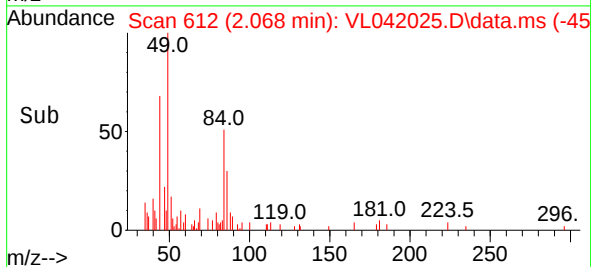
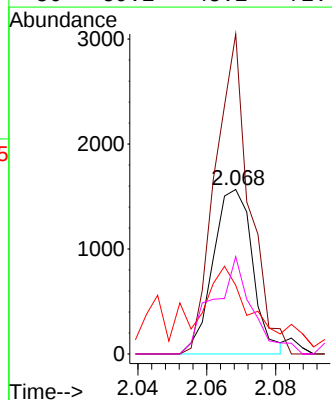
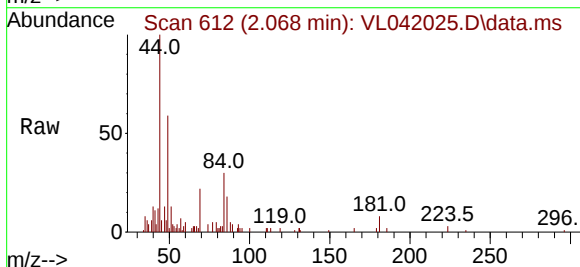
Ion Ratio Lower Upper

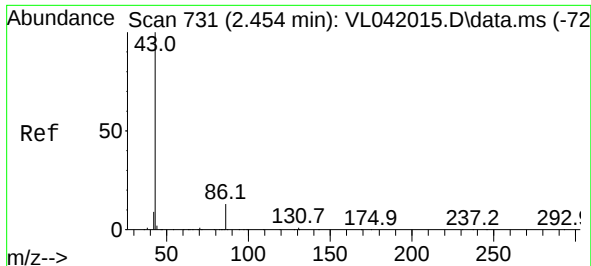
84 100

49 194.6 121.0 181.4#

51 29.6 35.1 52.7#

86 59.2 48.2 72.4





#23

Vinyl Acetate

Concen: 0.034 ppbv

RT: 2.473 min Scan# 74

Delta R.T. 0.000 min

Lab File: VL042025.D

Acq: 17 Feb 2025 11:55

Instrument :

MSVOA\_L

ClientSampleId :

Tgt Ion: 43 Resp: 266

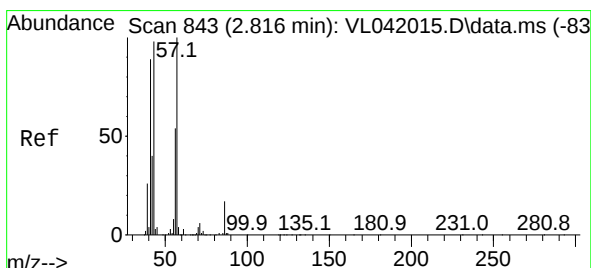
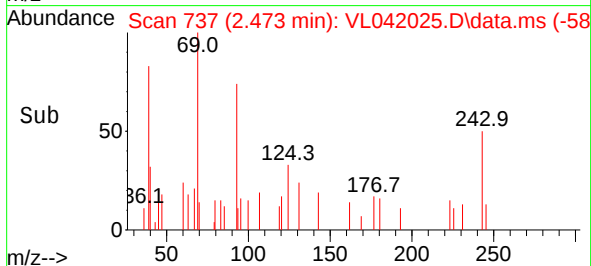
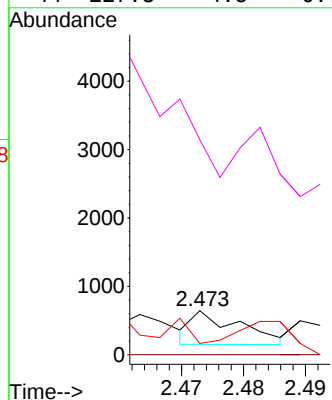
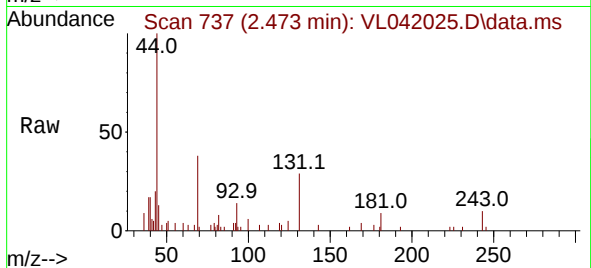
Ion Ratio Lower Upper

43 100

86 0.0 8.1 12.1#

42 0.0 7.5 11.3#

44 127.3 4.5 6.7#



#26

Hexane

Concen: 0.041 ppbv

RT: 2.835 min Scan# 849

Delta R.T. -0.003 min

Lab File: VL042025.D

Acq: 17 Feb 2025 11:55

Tgt Ion: 57 Resp: 639

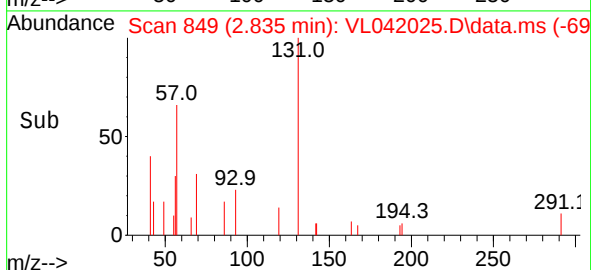
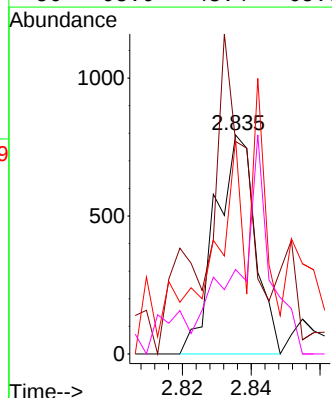
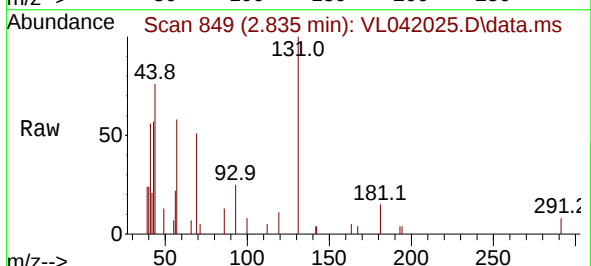
Ion Ratio Lower Upper

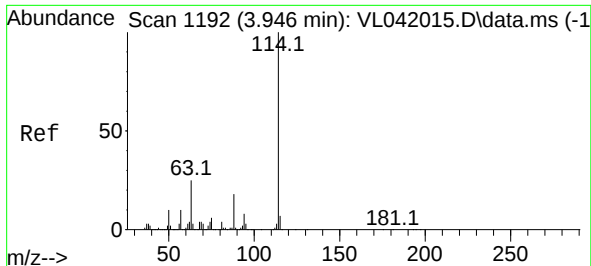
57 100

41 186.4 73.2 109.8#

43 239.6 200.8 301.2

56 98.0 43.4 65.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 1192

Delta R.T. -0.003 min

Lab File: VL042025.D

Acq: 17 Feb 2025 11:55

Instrument :

MSVOA\_L

ClientSampleId :

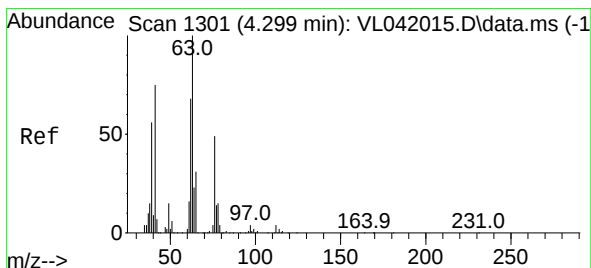
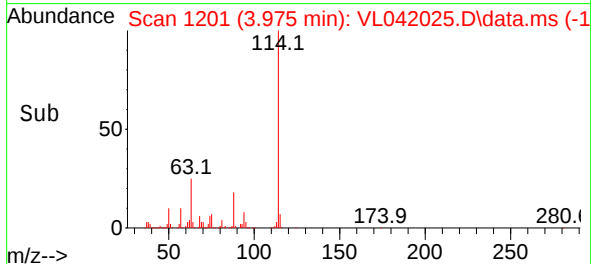
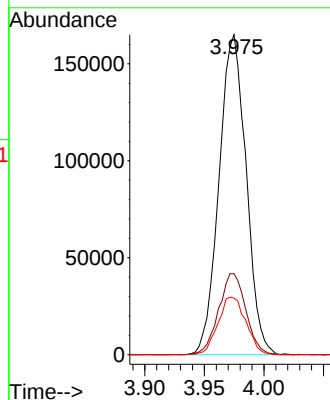
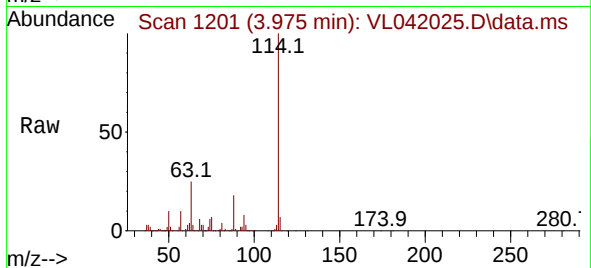
Tgt Ion:114 Resp: 261012

Ion Ratio Lower Upper

114 100

63 25.5 20.2 30.2

88 18.5 14.4 21.6



#39

1,2-Dichloropropane

Concen: 5.728 ppbv

RT: 3.975 min Scan# 1201

Delta R.T. -0.359 min

Lab File: VL042025.D

Acq: 17 Feb 2025 11:55

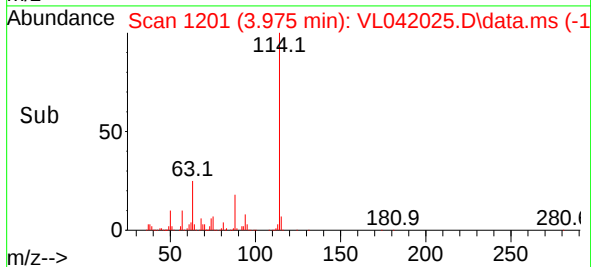
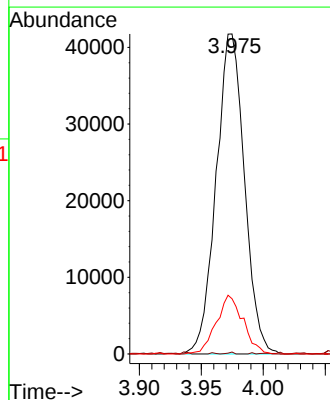
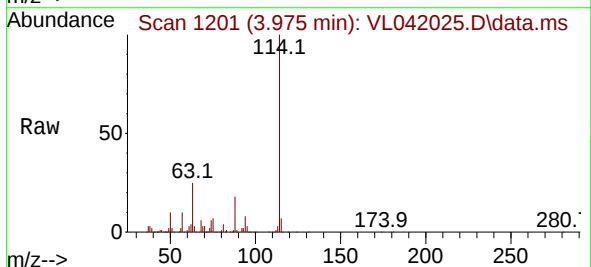
Tgt Ion: 63 Resp: 66398

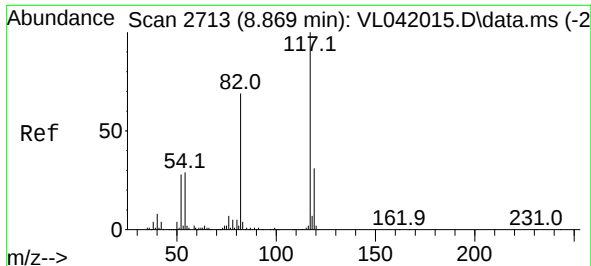
Ion Ratio Lower Upper

63 100

41 0.6 60.1 90.1#

62 17.2 54.0 81.0#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.898 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL042025.D

Acq: 17 Feb 2025 11:55

Instrument :

MSVOA\_1

ClientSampleId :

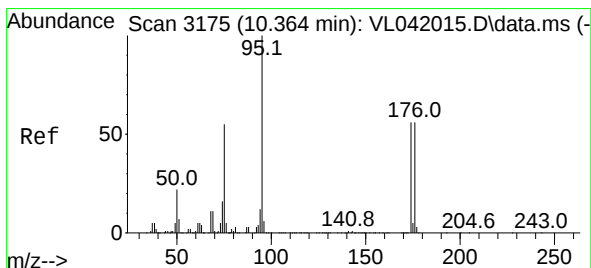
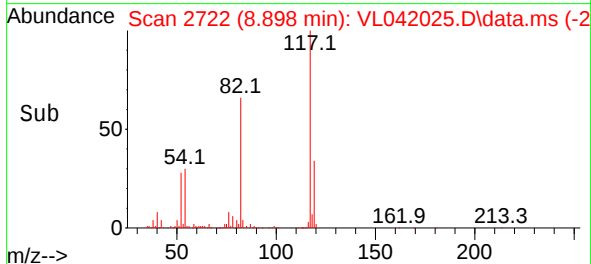
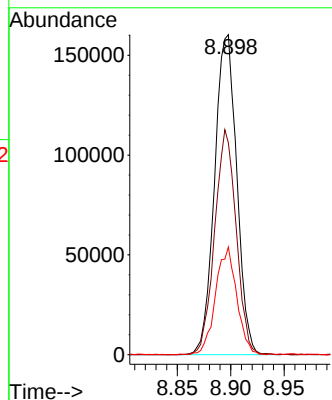
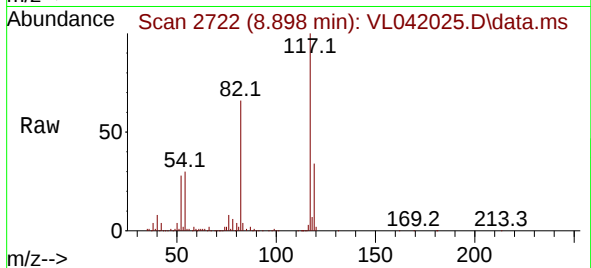
Tgt Ion:117 Resp: 231952

Ion Ratio Lower Upper

117 100

82 68.2 55.7 83.5

119 32.0 25.2 37.8



#68

1-Bromo-4-Fluorobenzene

Concen: 10.321 ppbv

RT: 10.387 min Scan# 3182

Delta R.T. -0.003 min

Lab File: VL042025.D

Acq: 17 Feb 2025 11:55

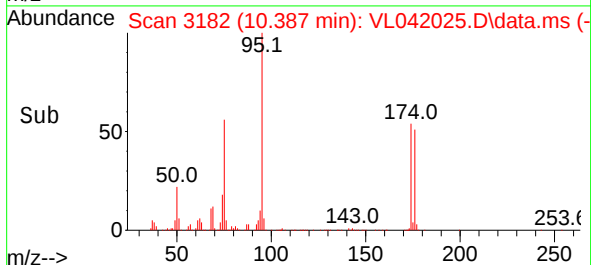
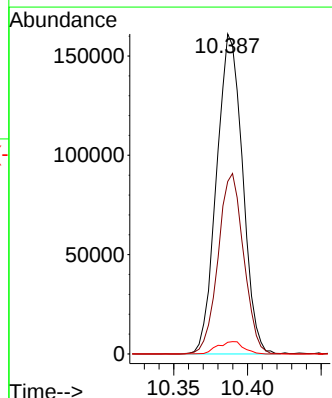
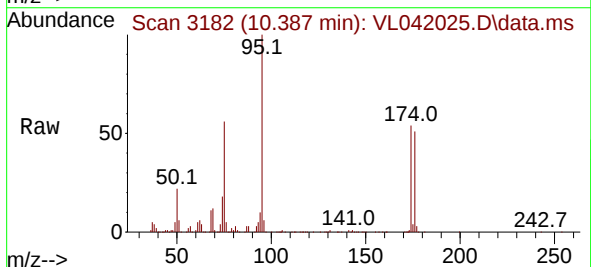
Tgt Ion: 95 Resp: 197471

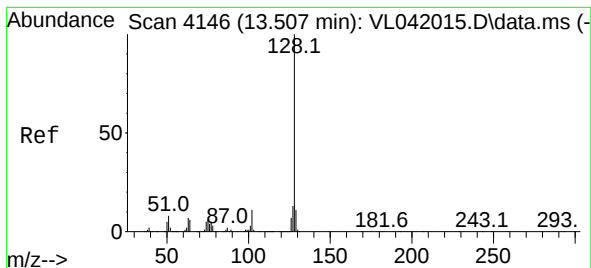
Ion Ratio Lower Upper

95 100

174 55.5 46.7 70.1

175 3.9 3.7 5.5





#79

Naphthalene

Concen: 0.043 ppbv

RT: 13.529 min Scan# 4146

Delta R.T. 0.003 min

Lab File: VL042025.D

Acq: 17 Feb 2025 11:55

Instrument :

MSVOA\_L

ClientSampleId :

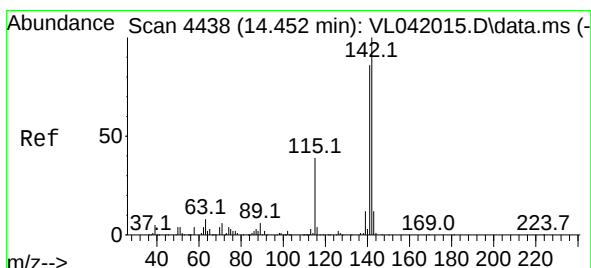
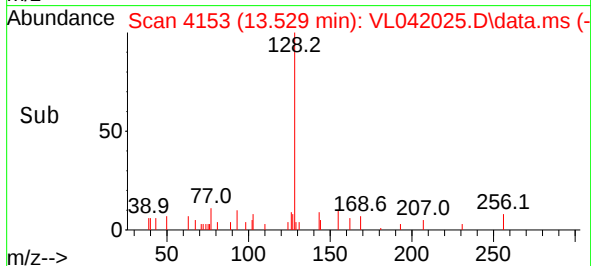
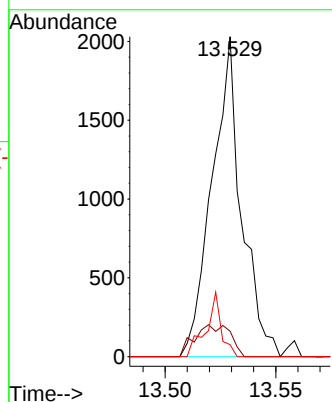
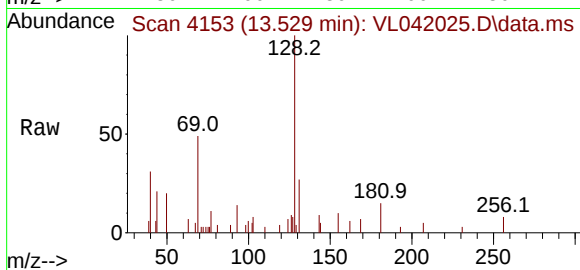
Tgt Ion:128 Resp: 1876

Ion Ratio Lower Upper

128 100

127 7.9 10.2 15.2#

129 3.7 8.6 13.0#



#80

Naphthalene,2-methyl-

Concen: 0.037 ppbv

RT: 14.468 min Scan# 4443

Delta R.T. -0.003 min

Lab File: VL042025.D

Acq: 17 Feb 2025 11:55

Tgt Ion:142 Resp: 728

Ion Ratio Lower Upper

142 100

141 107.8 68.2 102.2#

115 28.8 33.6 50.4#

