

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111724\  
 Data File : VN084891.D  
 Acq On : 17 Nov 2024 13:36  
 Operator : JC\MD  
 Sample : P4845-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FSND-MW-27-20241112

Quant Time: Nov 18 00:19:39 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N103024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 31 18:45:38 2024  
 Response via : Initial Calibration

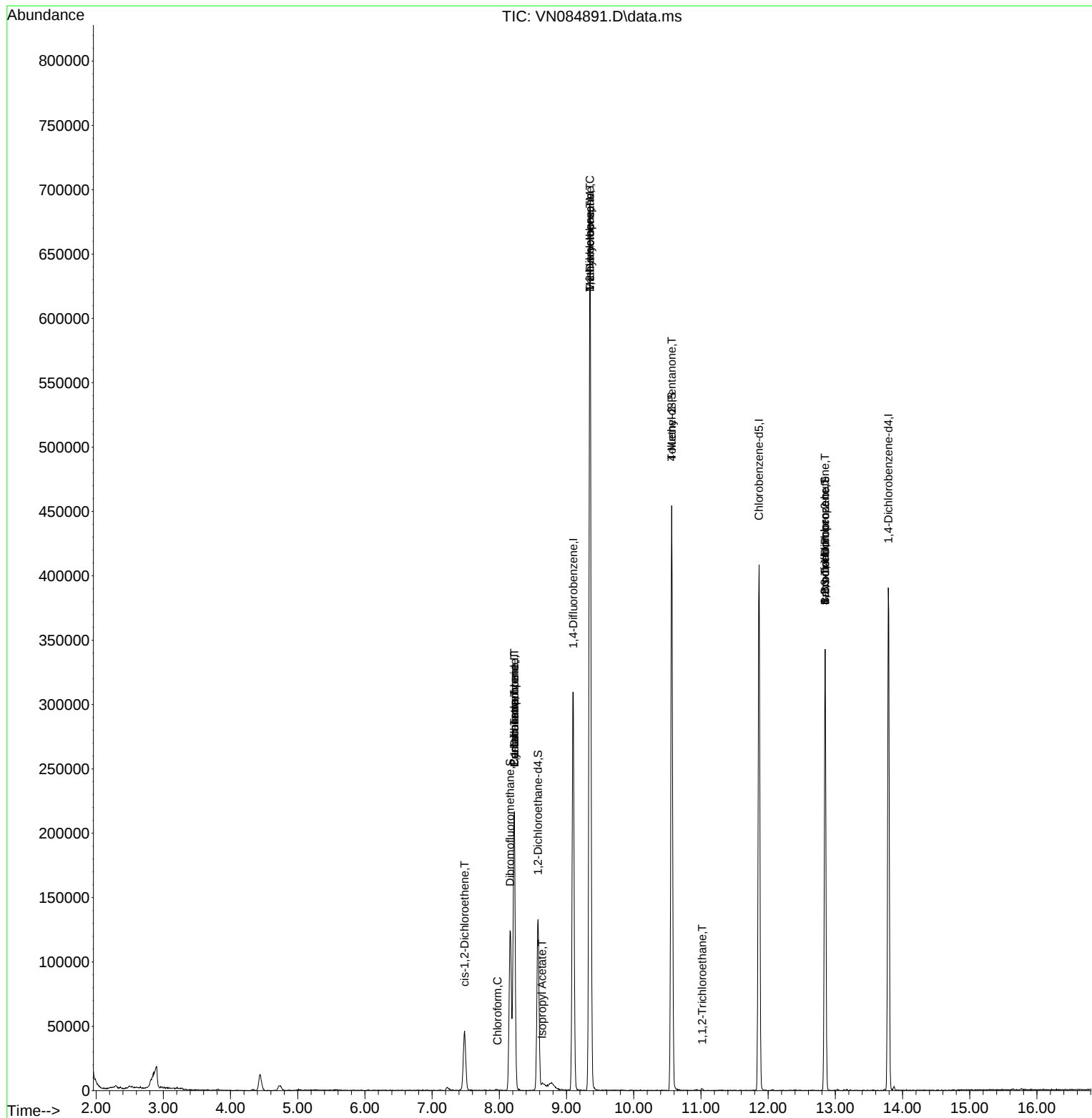
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 155365              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100          | 114  | 269150              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 235219              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788         | 152  | 105367              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577          | 65   | 113500              | 50.579    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 101.160% |           |        |          |
| 35) Dibromofluoromethane      | 8.159          | 113  | 91208               | 50.064    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 100.120% |           |        |          |
| 50) Toluene-d8                | 10.565         | 98   | 309204              | 46.074    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 92.140%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 117844              | 46.985    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = 93.960%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 3) Chloromethane              | 2.371          | 50   | 723                 | Below Cal | #      | 41       |
| 6) Chloroethane               | 3.112          | 64   | 282                 | Below Cal | #      | 45       |
| 16) Acetone                   | 4.442          | 43   | 1587                | Below Cal |        | 95       |
| 18) Methyl Acetate            | 5.012          | 43   | 1046                | Below Cal | #      | 51       |
| 27) cis-1,2-Dichloroethene    | 7.483          | 96   | 27447               | 12.939    | ug/l   | 88       |
| 30) Chloroform                | 7.971          | 83   | 740                 | 0.212     | ug/l   | 93       |
| 31) Cyclohexane               | 8.224          | 56   | 3430                | 1.107     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.224          | 75   | 12859               | 5.089     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.224          | 117  | 16763               | 5.936     | ug/l # | 14       |
| 39) Methylcyclohexane         | 9.347          | 83   | 2937                | 1.143     | ug/l # | 1        |
| 43) Isopropyl Acetate         | 8.636          | 43   | 5254                | 0.281     | ug/l # | 56       |
| 44) Trichloroethene           | 9.347          | 130  | 246388              | 131.664   | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.347          | 63   | 750                 | 0.394     | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.565         | 43   | 1350                | 0.618     | ug/l # | 1        |
| 55) 1,1,2-Trichloroethane     | 11.018         | 97   | 646                 | 0.361     | ug/l # | 57       |
| 71) Bromoform                 | 12.847         | 173  | 645                 | 0.468     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 60872               | 28.901    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 60872               | 68.564    | ug/l # | 11       |
| 88) 1,4-Dichlorobenzene       | 13.806         | 146  | 526                 | Below Cal | #      | 1        |
| -----                         |                |      |                     |           |        |          |

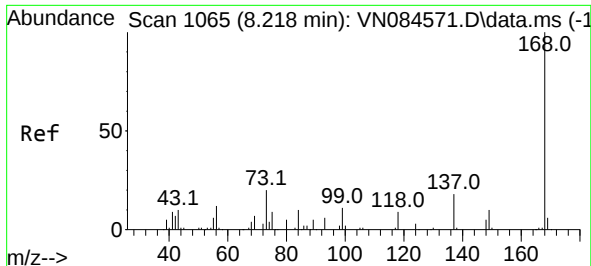
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-27-20241112

Quant Time: Nov 18 00:19:39 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N103024W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 31 18:45:38 2024  
Response via : Initial Calibration

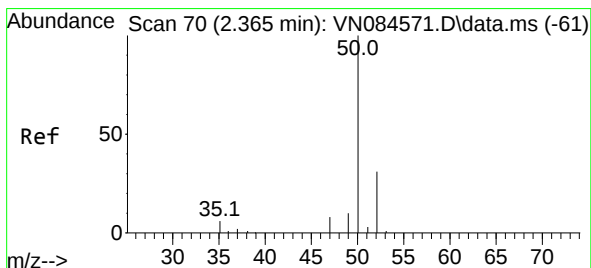
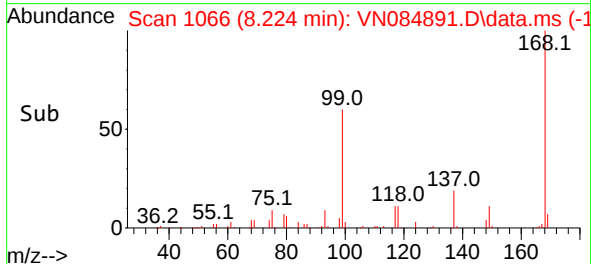
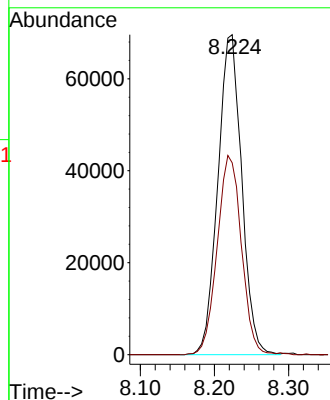
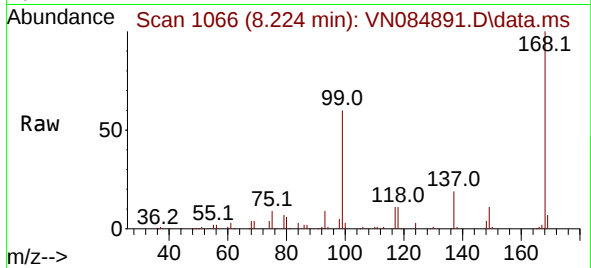




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN084891.D  
Acq: 17 Nov 2024 13:36

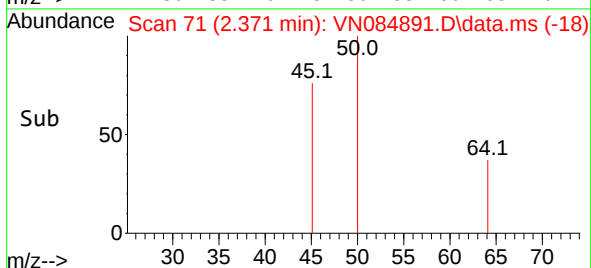
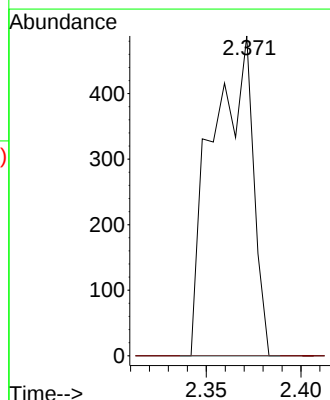
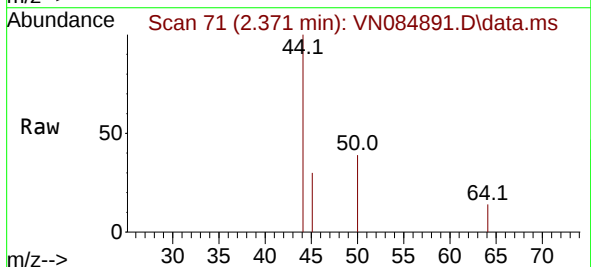
Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-27-20241112

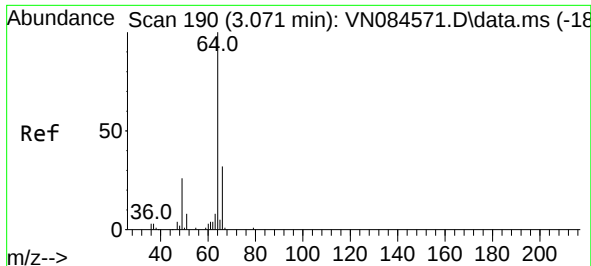
Tgt Ion:168 Resp: 155365  
Ion Ratio Lower Upper  
168 100  
99 59.9 54.2 81.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.371 min Scan# 71  
Delta R.T. 0.012 min  
Lab File: VN084891.D  
Acq: 17 Nov 2024 13:36

Tgt Ion: 50 Resp: 723  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.8 40.2#

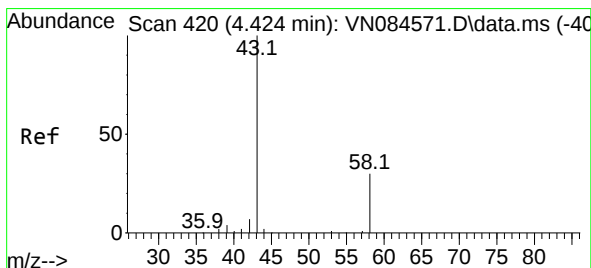
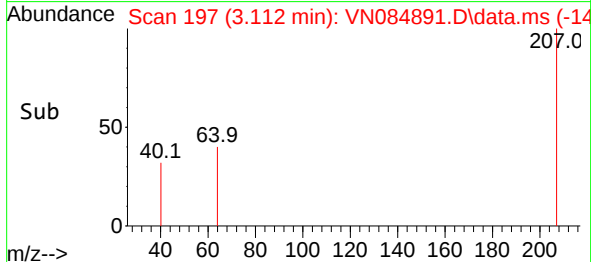
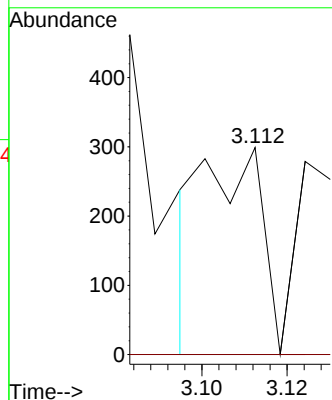
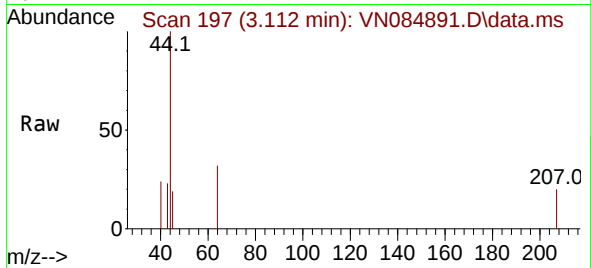




#6  
Chloroethane  
Concen: Below Cal  
RT: 3.112 min Scan# 190  
Delta R.T. -0.006 min  
Lab File: VN084891.D  
Acq: 17 Nov 2024 13:36

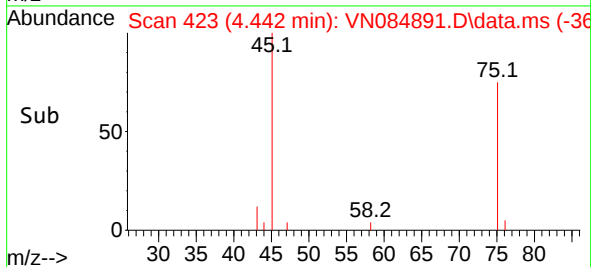
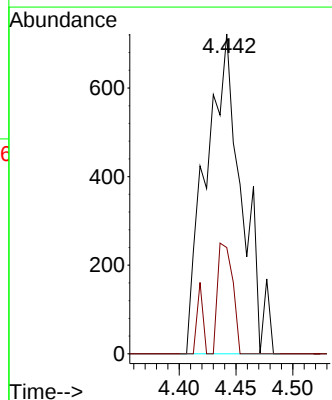
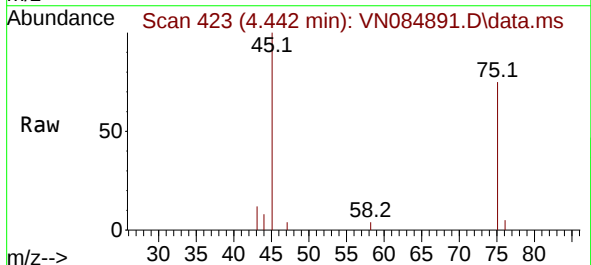
Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-27-20241112

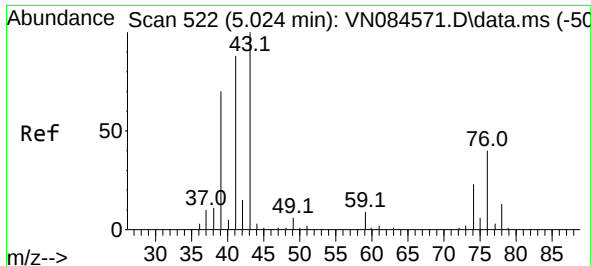
Tgt Ion: 64 Resp: 282  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.5 35.3#



#16  
Acetone  
Concen: Below Cal  
RT: 4.442 min Scan# 423  
Delta R.T. 0.018 min  
Lab File: VN084891.D  
Acq: 17 Nov 2024 13:36

Tgt Ion: 43 Resp: 1587  
Ion Ratio Lower Upper  
43 100  
58 33.2 24.4 36.6

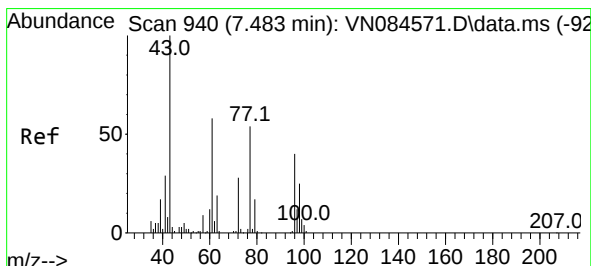
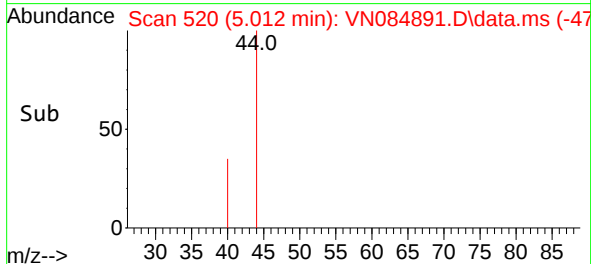
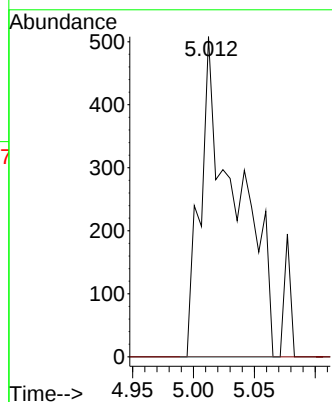
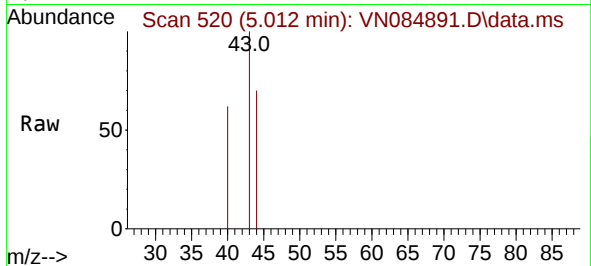




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 5.012 min Scan# 51  
Delta R.T. -0.006 min  
Lab File: VN084891.D  
Acq: 17 Nov 2024 13:36

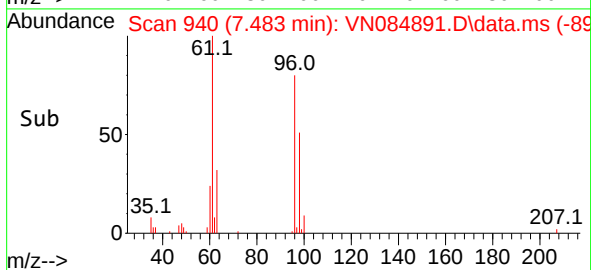
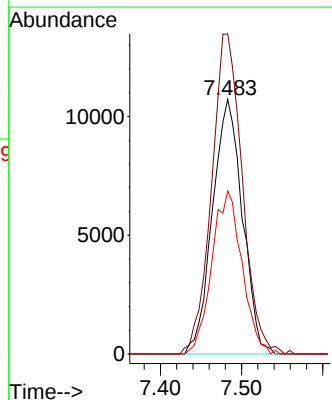
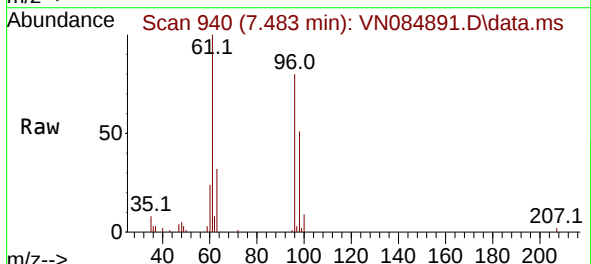
Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-27-20241112

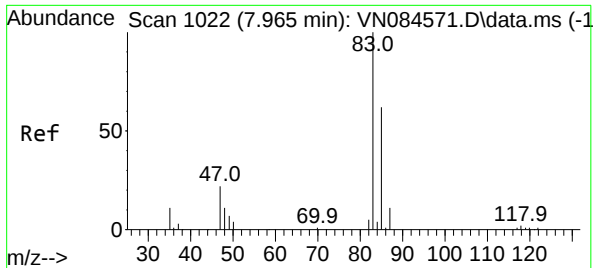
Tgt Ion: 43 Resp: 1046  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.2 28.8#



#27  
cis-1,2-Dichloroethene  
Concen: 12.939 ug/l  
RT: 7.483 min Scan# 940  
Delta R.T. -0.006 min  
Lab File: VN084891.D  
Acq: 17 Nov 2024 13:36

Tgt Ion: 96 Resp: 27447  
Ion Ratio Lower Upper  
96 100  
61 129.1 0.0 301.8  
98 64.5 0.0 128.2

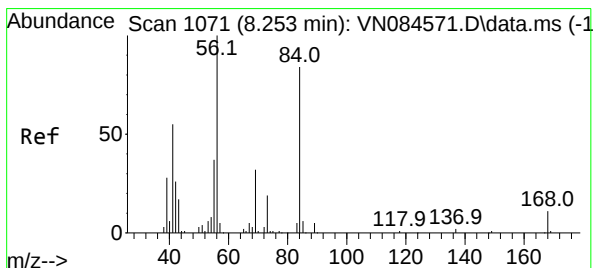
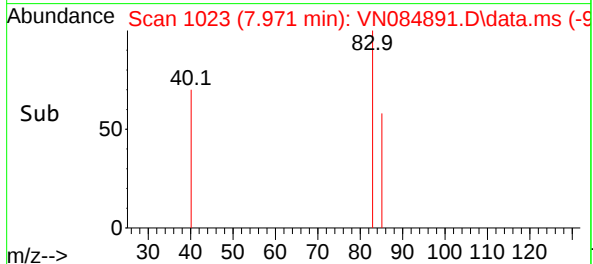
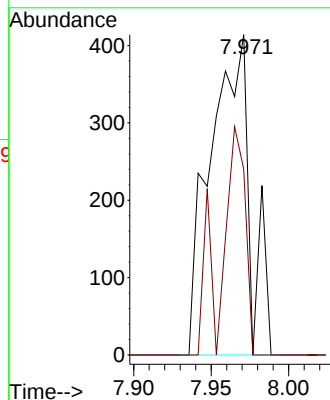
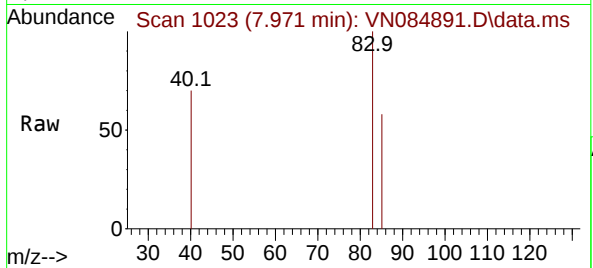




#30  
Chloroform  
Concen: 0.212 ug/l  
RT: 7.971 min Scan# 1066  
Delta R.T. 0.006 min  
Lab File: VN084891.D  
Acq: 17 Nov 2024 13:36

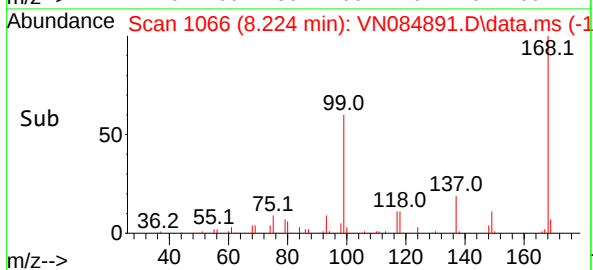
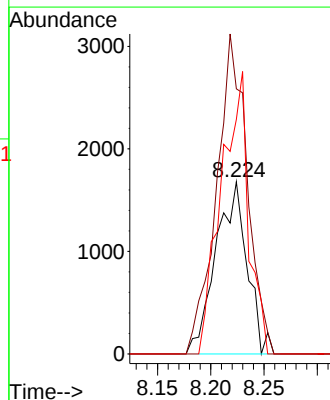
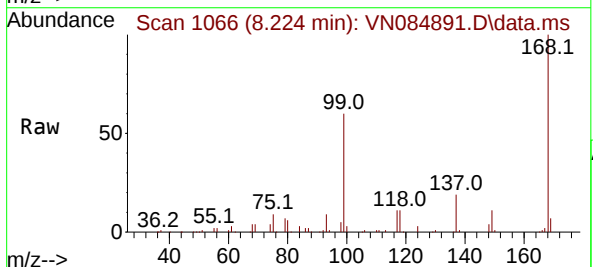
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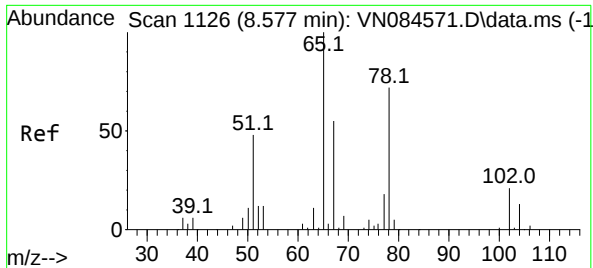
Tgt Ion: 83 Resp: 740  
Ion Ratio Lower Upper  
83 100  
85 58.0 51.0 76.4



#31  
Cyclohexane  
Concen: 1.107 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.029 min  
Lab File: VN084891.D  
Acq: 17 Nov 2024 13:36

Tgt Ion: 56 Resp: 3430  
Ion Ratio Lower Upper  
56 100  
69 154.0 23.8 35.6#  
84 136.2 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 50.579 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN084891.D

Acq: 17 Nov 2024 13:36

Instrument :

MSVOA\_N

ClientSampleId :

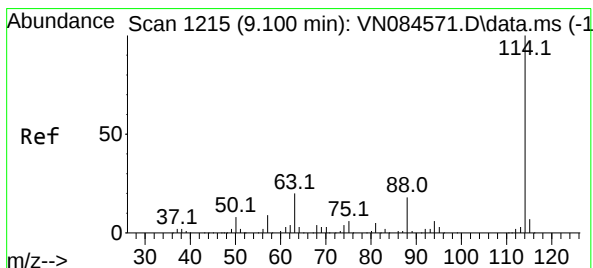
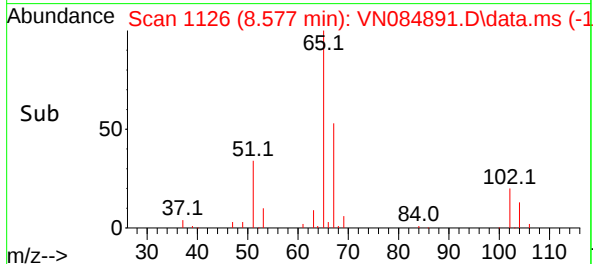
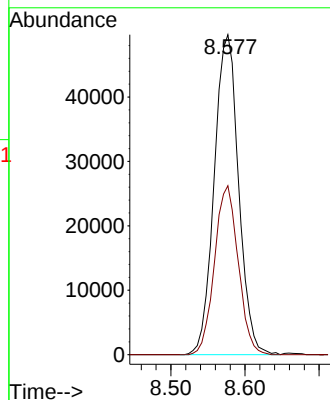
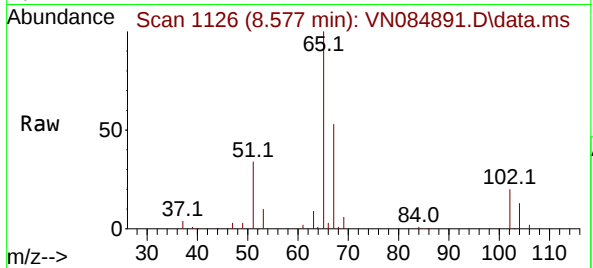
FSND-MW-27-20241112

Tgt Ion: 65 Resp: 113500

Ion Ratio Lower Upper

65 100

67 51.4 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN084891.D

Acq: 17 Nov 2024 13:36

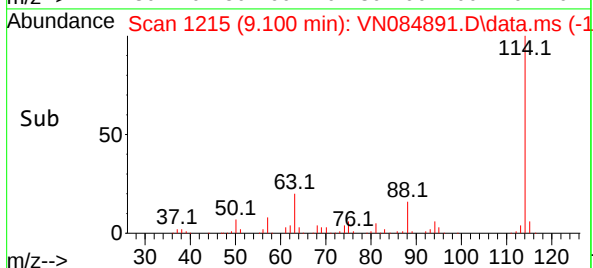
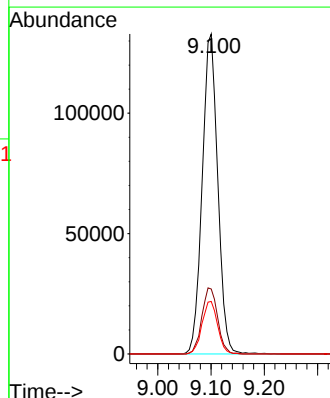
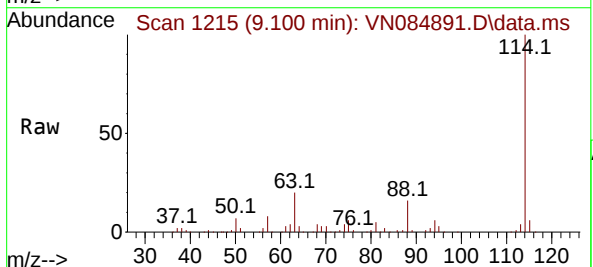
Tgt Ion: 114 Resp: 269150

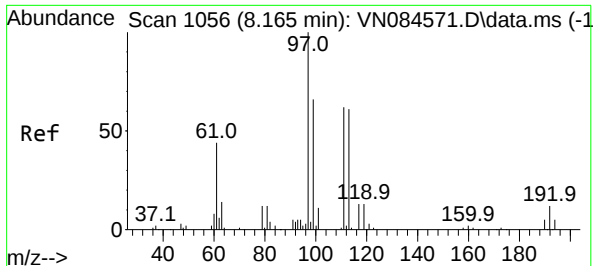
Ion Ratio Lower Upper

114 100

63 20.3 0.0 43.8

88 16.4 0.0 31.6

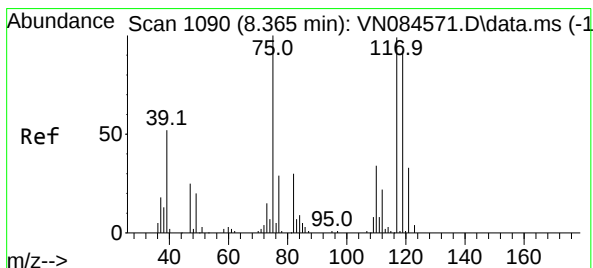
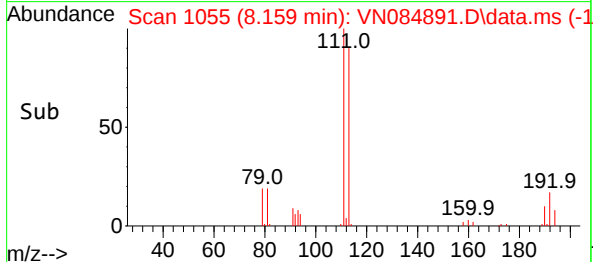
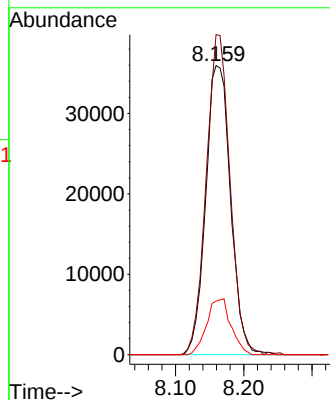
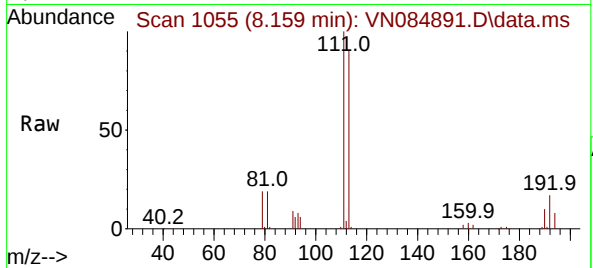




#35  
Dibromofluoromethane  
Concen: 50.064 ug/l  
RT: 8.159 min Scan# 1065  
Delta R.T. -0.006 min  
Lab File: VN084891.D  
Acq: 17 Nov 2024 13:36

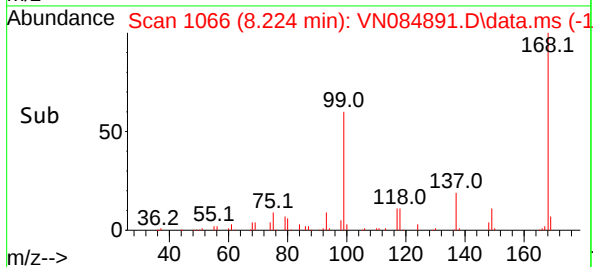
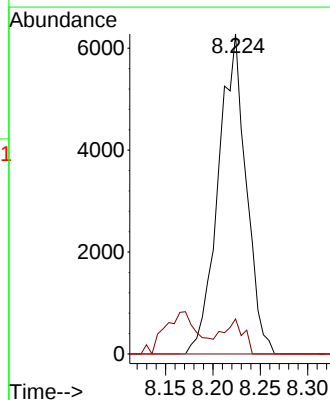
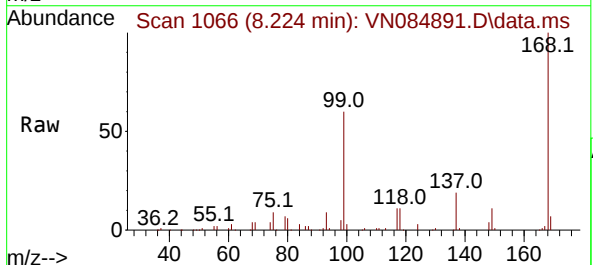
Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-27-20241112

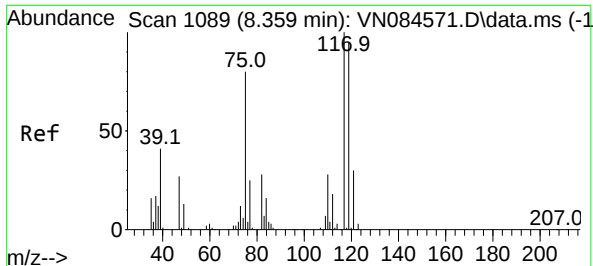
Tgt Ion:113 Resp: 91208  
Ion Ratio Lower Upper  
113 100  
111 106.0 83.3 124.9  
192 18.8 13.5 20.3



#36  
1,1-Dichloropropene  
Concen: 5.089 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.147 min  
Lab File: VN084891.D  
Acq: 17 Nov 2024 13:36

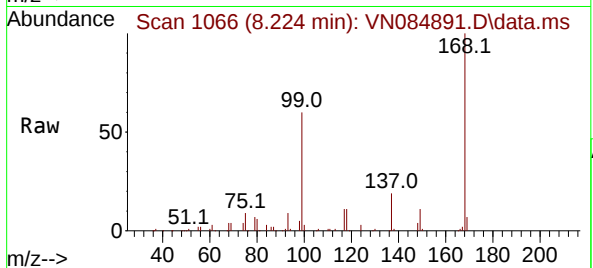
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77 0.0 24.7 37.1#



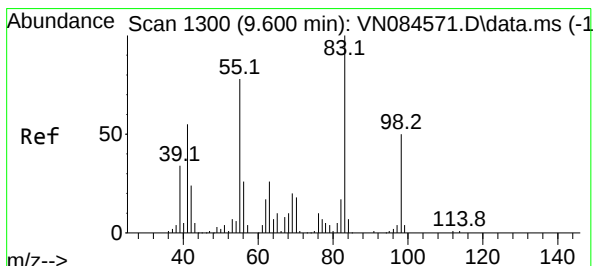
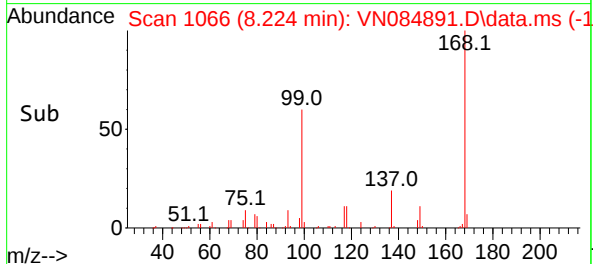
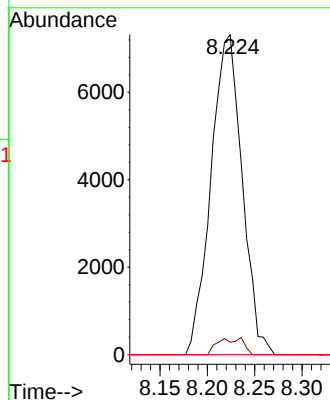


#38  
Carbon Tetrachloride  
Concen: 5.936 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.135 min  
Lab File: VN084891.D  
Acq: 17 Nov 2024 13:36

Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-27-20241112

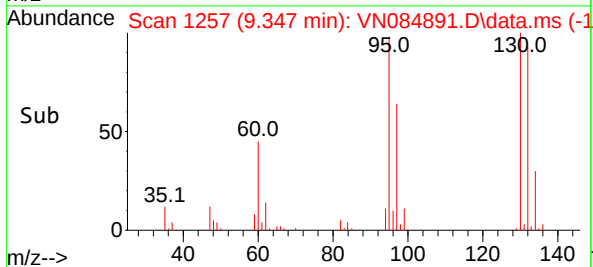
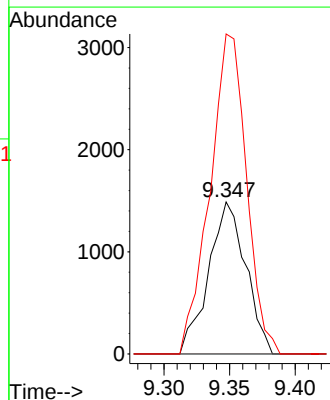
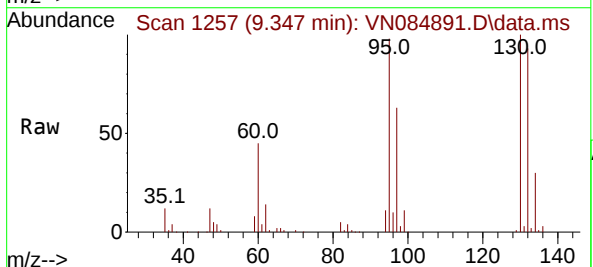


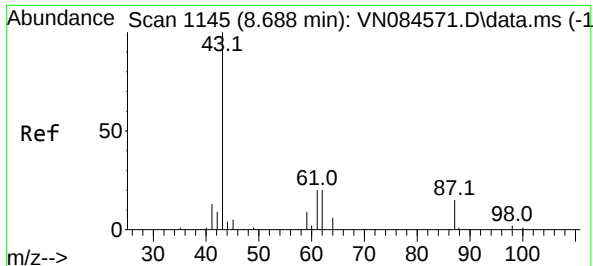
Tgt Ion:117 Resp: 16763  
Ion Ratio Lower Upper  
117 100  
119 3.9 78.7 118.1#  
121 0.0 24.4 36.6#



#39  
Methylcyclohexane  
Concen: 1.143 ug/l  
RT: 9.347 min Scan# 1257  
Delta R.T. -0.253 min  
Lab File: VN084891.D  
Acq: 17 Nov 2024 13:36

Tgt Ion: 83 Resp: 2937  
Ion Ratio Lower Upper  
83 100  
55 0.0 62.8 94.2#  
98 210.6 38.8 58.2#

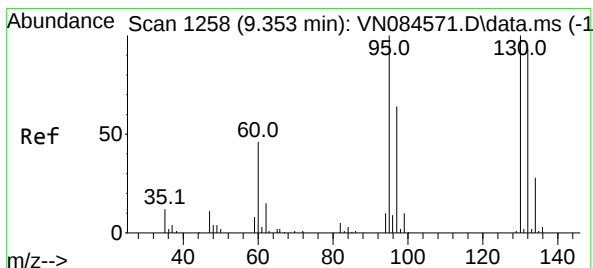
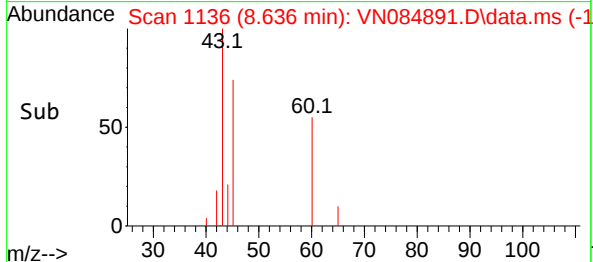
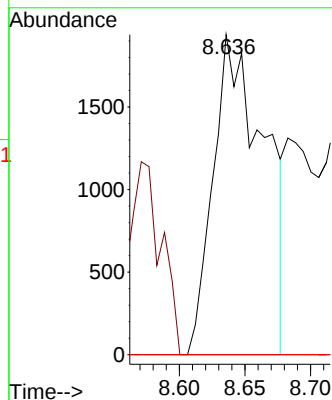
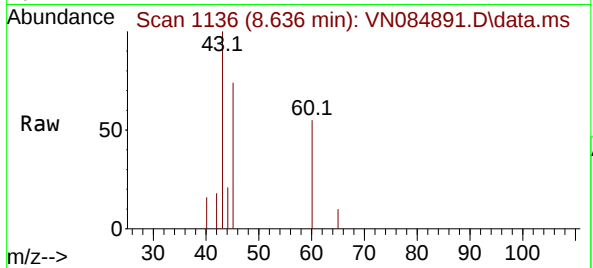




#43  
Isopropyl Acetate  
Concen: 0.281 ug/l  
RT: 8.636 min Scan# 1145  
Delta R.T. -0.052 min  
Lab File: VN084891.D  
Acq: 17 Nov 2024 13:36

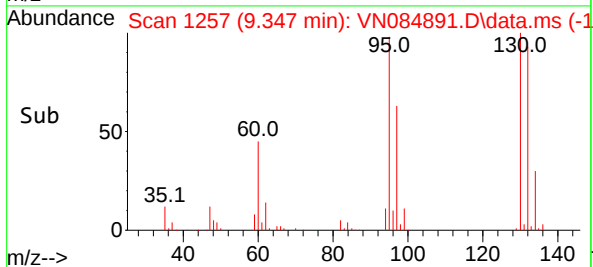
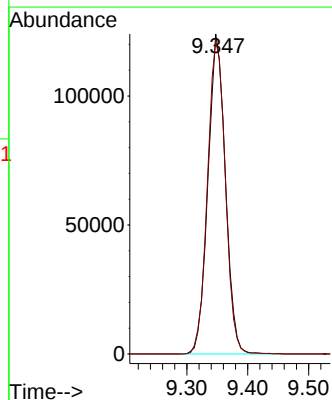
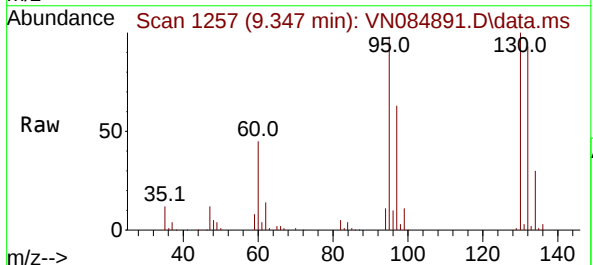
Instrument : MSVOA\_N  
ClientSampleId : FSND-MW-27-20241112

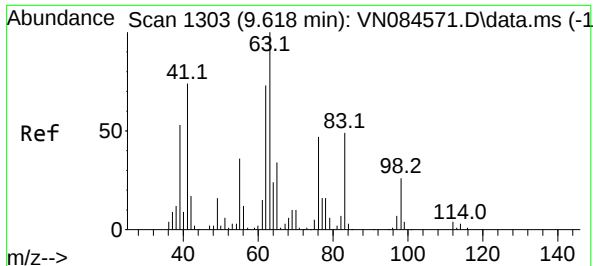
Tgt Ion: 43 Resp: 5254  
Ion Ratio Lower Upper  
43 100  
61 0.0 20.4 30.6#  
87 0.0 10.3 15.5#



#44  
Trichloroethene  
Concen: 131.664 ug/l  
RT: 9.347 min Scan# 1257  
Delta R.T. 0.000 min  
Lab File: VN084891.D  
Acq: 17 Nov 2024 13:36

Tgt Ion:130 Resp: 246388  
Ion Ratio Lower Upper  
130 100  
95 97.7 0.0 203.0





#45

1,2-Dichloropropane

Concen: 0.394 ug/l

RT: 9.347 min Scan# 1

Delta R.T. -0.271 min

Lab File: VN084891.D

Acq: 17 Nov 2024 13:36

Instrument :

MSVOA\_N

ClientSampleId :

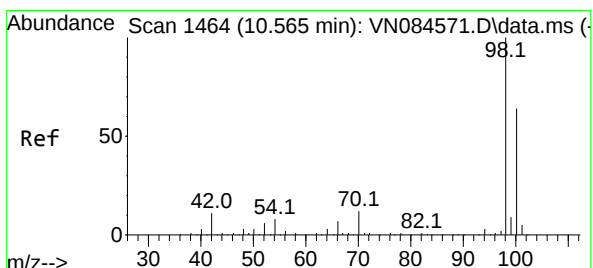
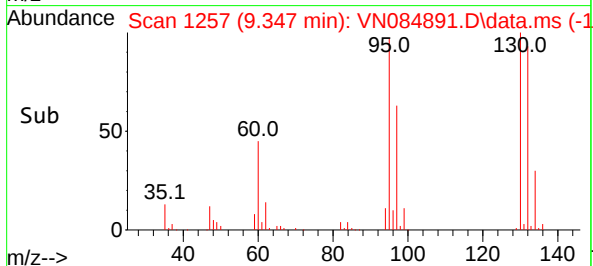
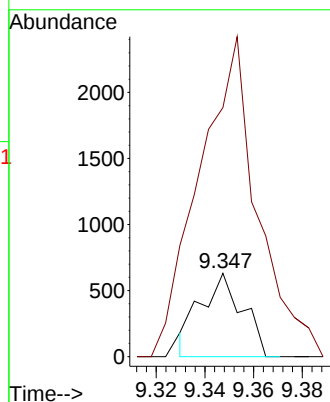
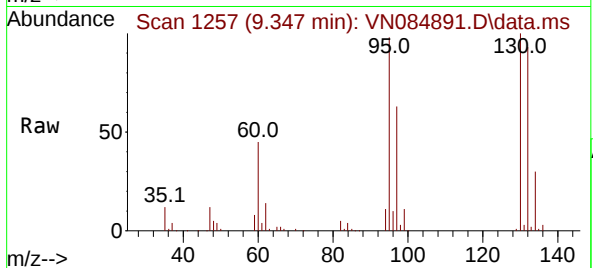
FSND-MW-27-20241112

Tgt Ion: 63 Resp: 750

Ion Ratio Lower Upper

63 100

65 227.6 24.6 37.0#



#50

Toluene-d8

Concen: 46.074 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084891.D

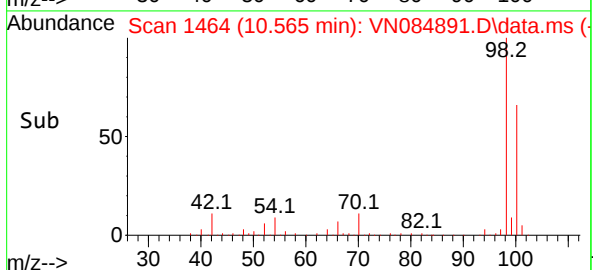
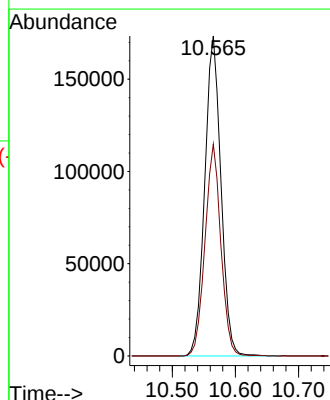
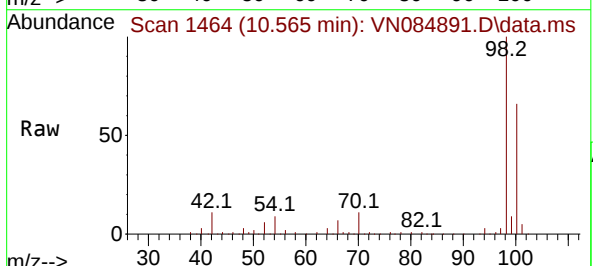
Acq: 17 Nov 2024 13:36

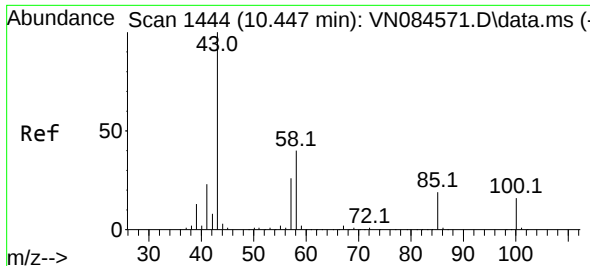
Tgt Ion: 98 Resp: 309204

Ion Ratio Lower Upper

98 100

100 64.9 52.7 79.1





#51

4-Methyl-2-Pentanone

Concen: 0.618 ug/l

RT: 10.565 min Scan# 1444

Delta R.T. 0.124 min

Lab File: VN084891.D

Acq: 17 Nov 2024 13:36

Instrument :

MSVOA\_N

ClientSampleId :

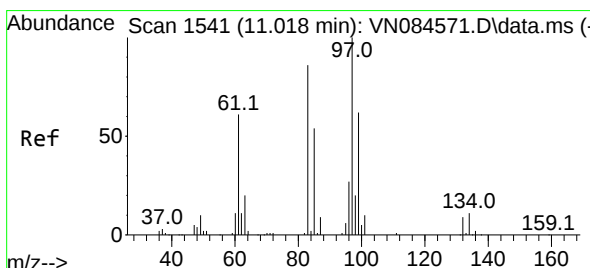
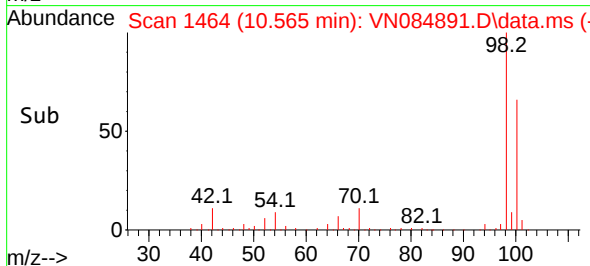
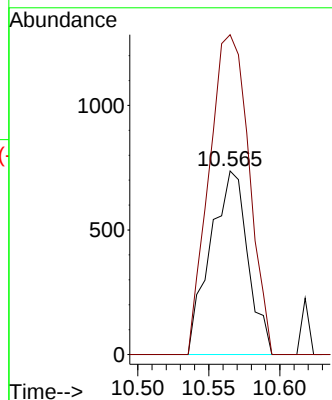
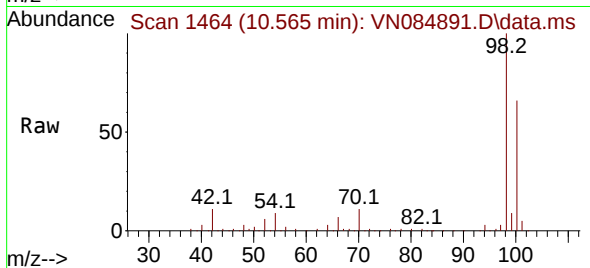
FSND-MW-27-20241112

Tgt Ion: 43 Resp: 1350

Ion Ratio Lower Upper

43 100

58 186.1 31.6 47.4#



#55

1,1,2-Trichloroethane

Concen: 0.361 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. 0.006 min

Lab File: VN084891.D

Acq: 17 Nov 2024 13:36

Tgt Ion: 97 Resp: 646

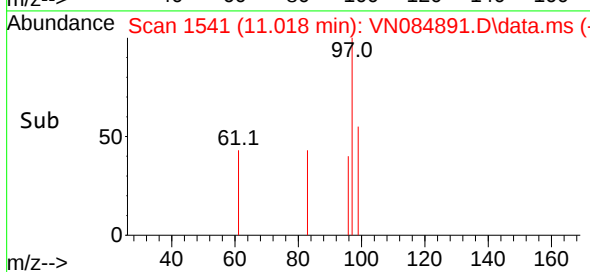
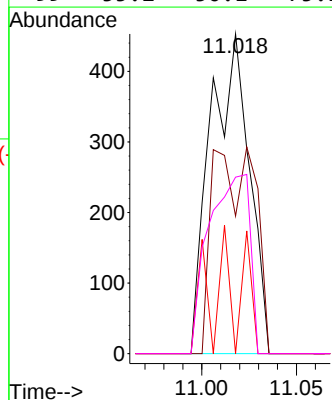
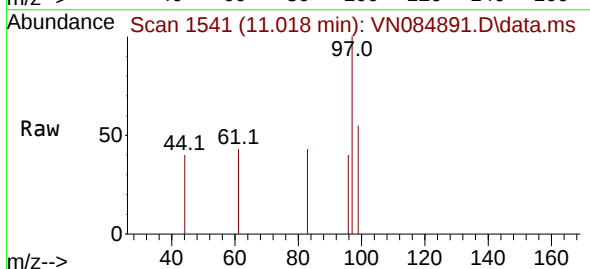
Ion Ratio Lower Upper

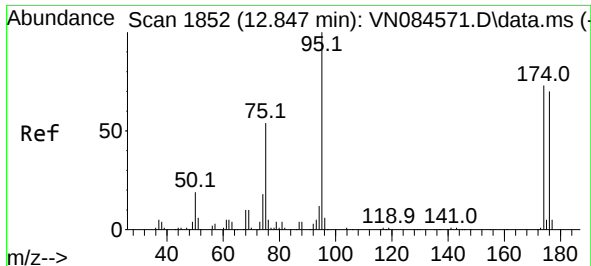
97 100

83 43.0 71.0 106.4#

85 0.0 41.7 62.5#

99 55.2 50.1 75.1

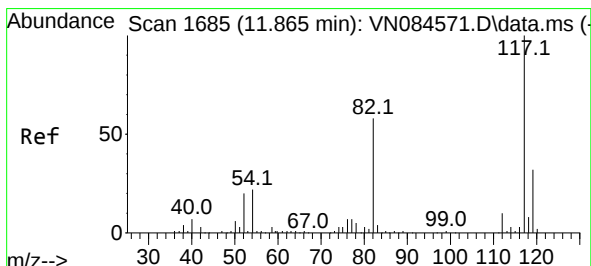
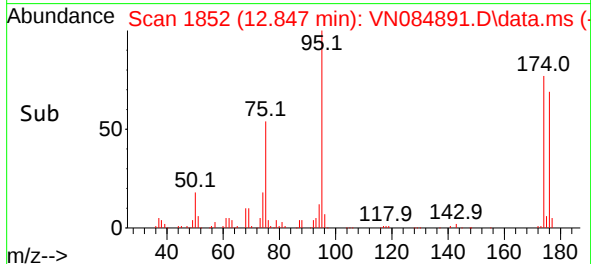
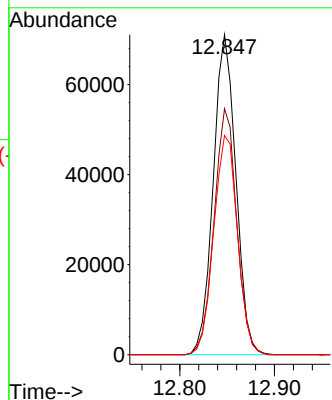
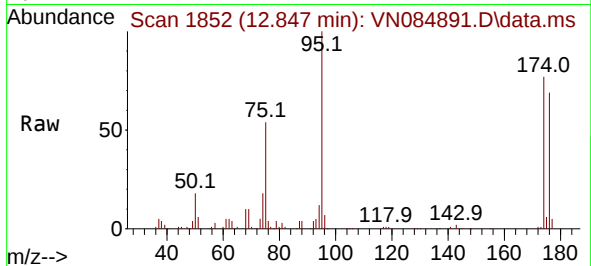




#62  
4-Bromofluorobenzene  
Concen: 46.985 ug/l  
RT: 12.847 min Scan# 117844  
Delta R.T. 0.000 min  
Lab File: VN084891.D  
Acq: 17 Nov 2024 13:36

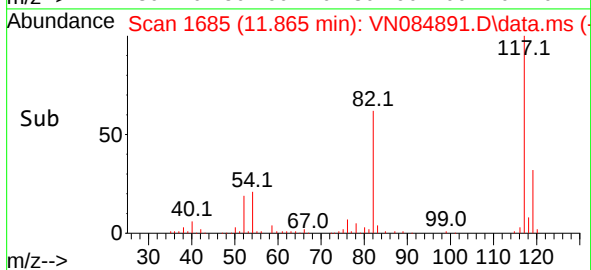
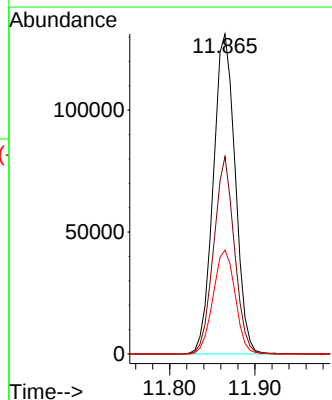
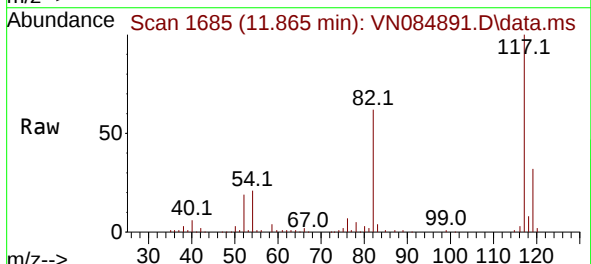
Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-27-20241112

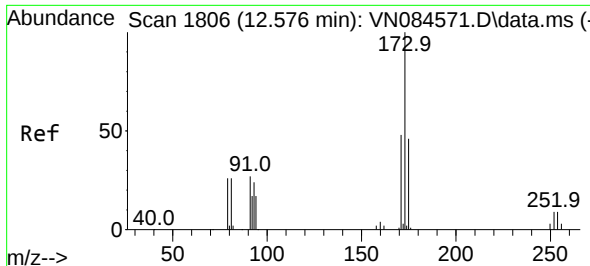
Tgt Ion: 95 Resp: 117844  
Ion Ratio Lower Upper  
95 100  
174 77.5 0.0 145.2  
176 72.1 0.0 140.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VN084891.D  
Acq: 17 Nov 2024 13:36

Tgt Ion: 117 Resp: 235219  
Ion Ratio Lower Upper  
117 100  
82 61.7 47.2 70.8  
119 32.5 25.4 38.0

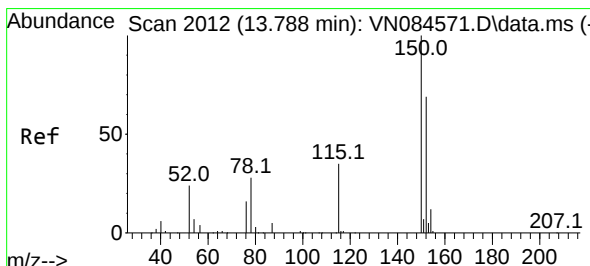
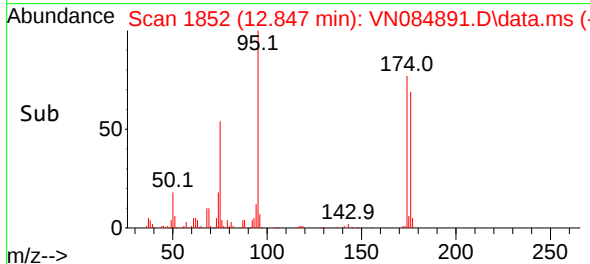
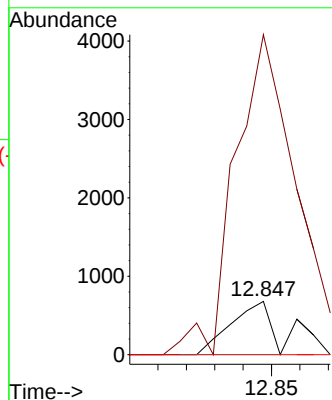
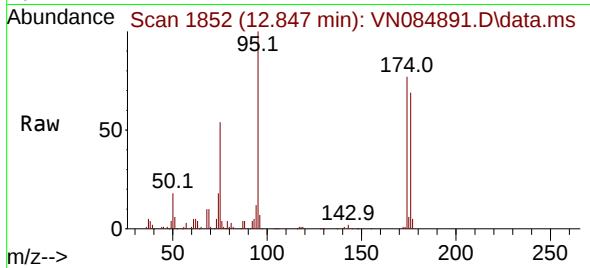




#71  
Bromoform  
Concen: 0.468 ug/l  
RT: 12.847 min Scan# 1806  
Delta R.T. 0.271 min  
Lab File: VN084891.D  
Acq: 17 Nov 2024 13:36

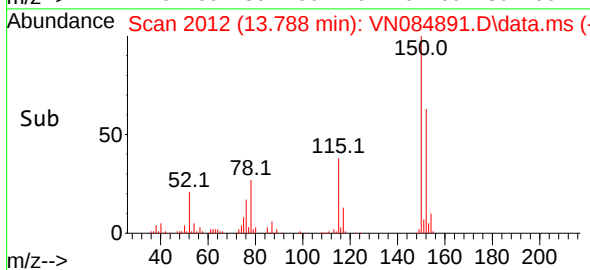
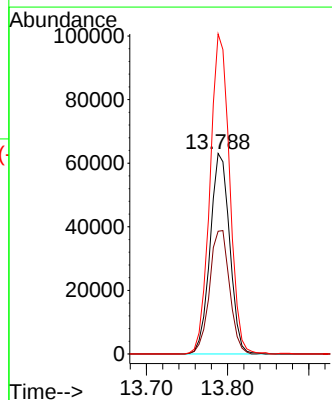
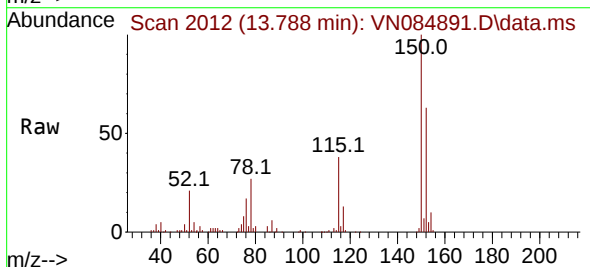
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MSVOA\_N  
ClientSampleId :  
FSND-MW-27-20241112

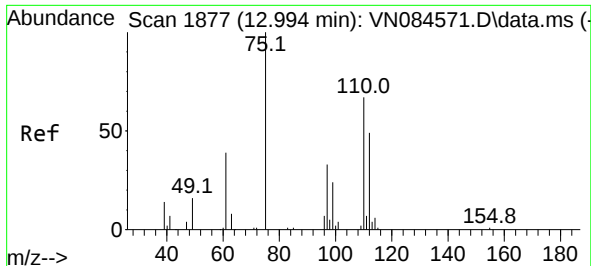
Tgt Ion:173 Resp: 645  
Ion Ratio Lower Upper  
173 100  
175 718.8 23.5 70.6#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.788 min Scan# 1212  
Delta R.T. 0.000 min  
Lab File: VN084891.D  
Acq: 17 Nov 2024 13:36

Tgt Ion:152 Resp: 105367  
Ion Ratio Lower Upper  
152 100  
115 63.0 31.3 93.9  
150 159.5 0.0 349.8

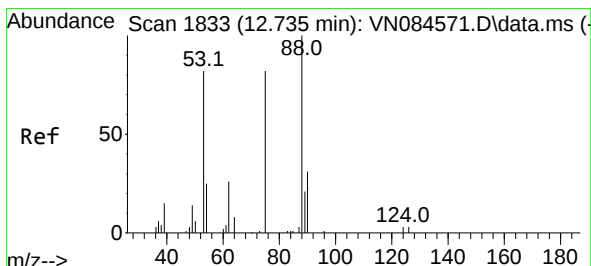
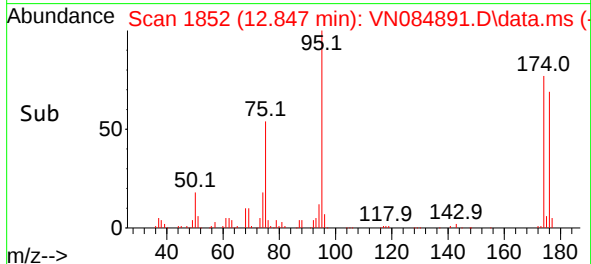
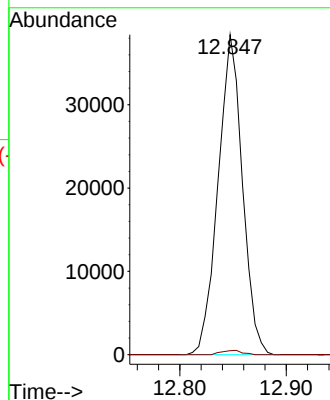
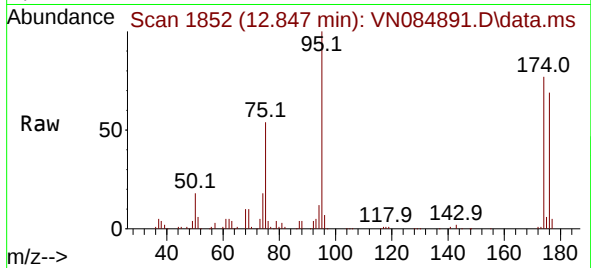




#76  
1,2,3-Trichloropropane  
Concen: 28.901 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.141 min  
Lab File: VN084891.D  
Acq: 17 Nov 2024 13:36

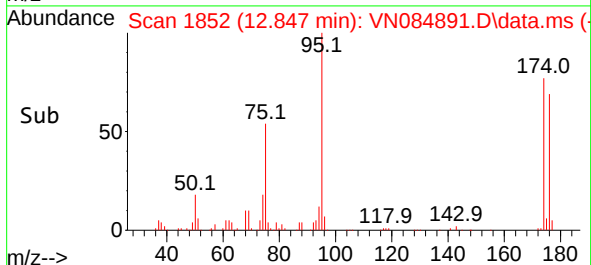
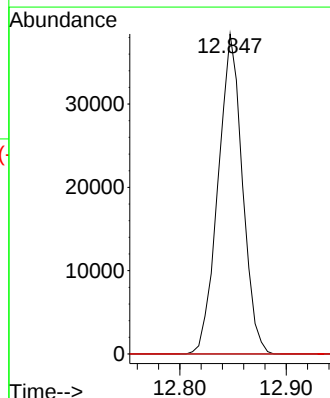
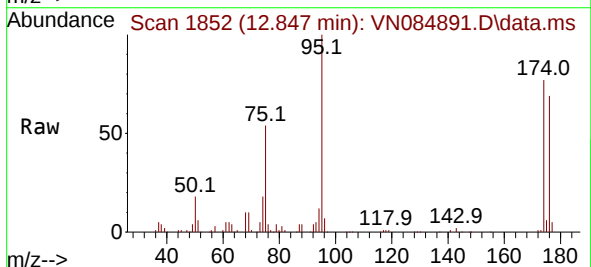
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MSVOA\_N  
ClientSampleId :  
FSND-MW-27-20241112

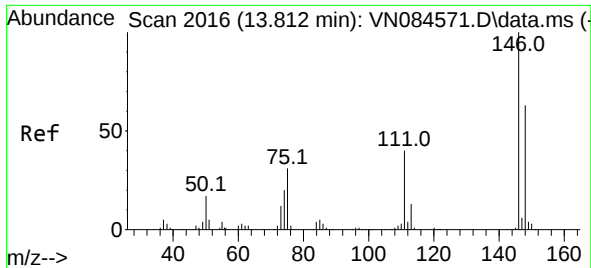
Tgt Ion: 75 Resp: 60872  
Ion Ratio Lower Upper  
75 100  
77 1.1 96.9 290.7#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 68.564 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN084891.D  
Acq: 17 Nov 2024 13:36

Tgt Ion: 75 Resp: 60872  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.0 117.0#  
89 0.0 35.5 53.3#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.806 min Scan# 20

Delta R.T. -0.006 min

Lab File: VN084891.D

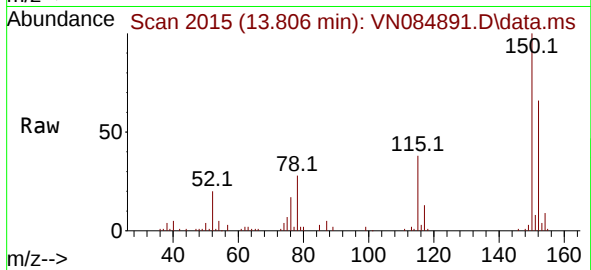
Acq: 17 Nov 2024 13:36

Instrument :

MSVOA\_N

ClientSampleId :

FSND-MW-27-20241112



Tgt Ion:146 Resp: 526

Ion Ratio Lower Upper

146 100

111 314.4 21.2 63.6#

148 45.2 31.9 95.9

