

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112224\  
 Data File : VN085018.D  
 Acq On : 22 Nov 2024 20:05  
 Operator : JC\MD  
 Sample : P4845-23  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FSND-MW-18-20241112

Quant Time: Nov 23 03:26:38 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112224W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 23 02:54:10 2024  
 Response via : Initial Calibration

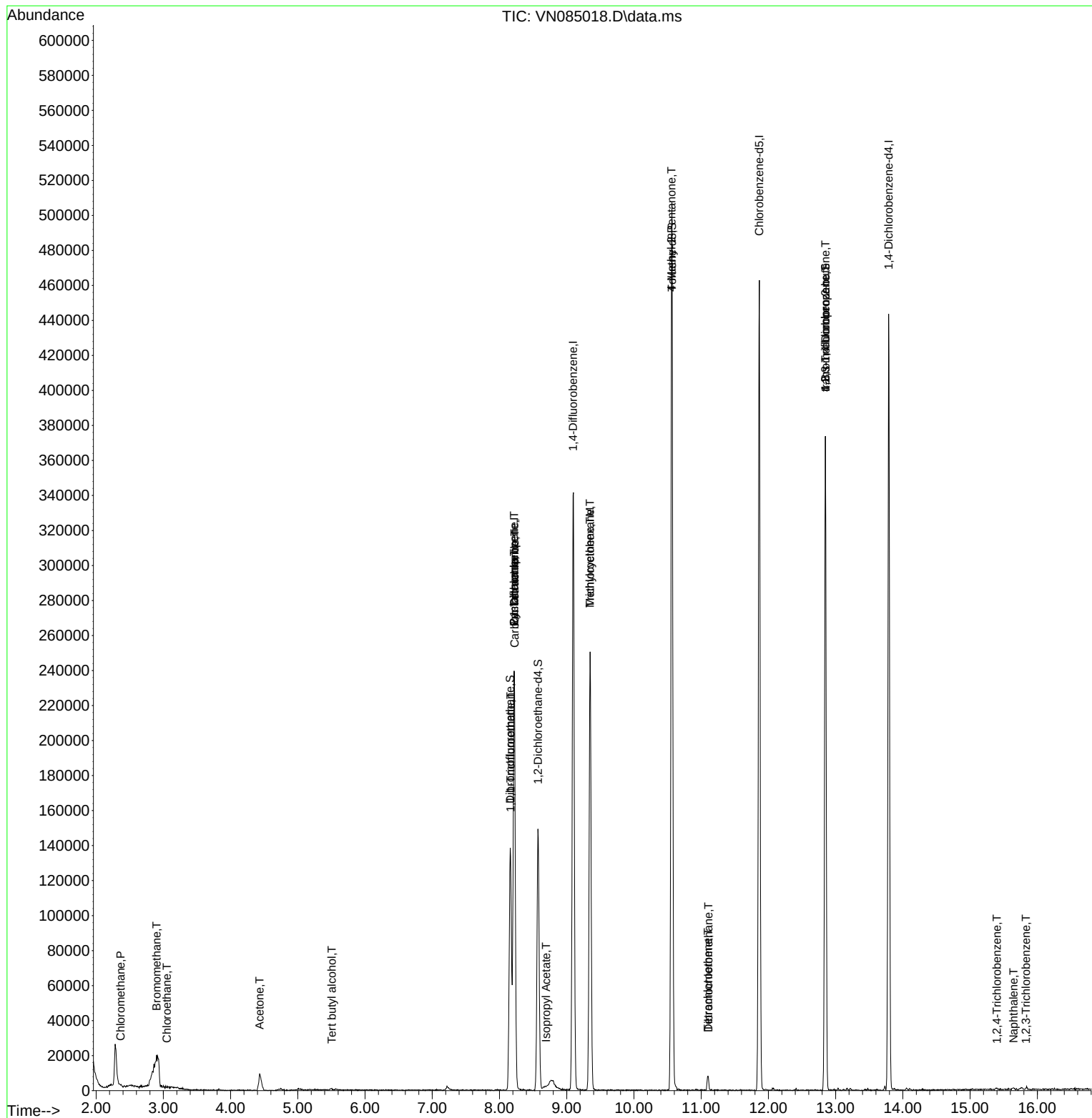
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 8.218          | 168  | 169757              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.094          | 114  | 301590              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 265028              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788         | 152  | 117323              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.571          | 65   | 124950              | 51.674    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 103.340% |           |        |          |
| 35) Dibromofluoromethane      | 8.159          | 113  | 99028               | 48.691    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 97.380%  |           |        |          |
| 50) Toluene-d8                | 10.565         | 98   | 346771              | 47.576    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 95.160%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 127974              | 46.950    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = 93.900%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 3) Chloromethane              | 2.365          | 50   | 577                 | 0.259     | ug/l # | 40       |
| 5) Bromomethane               | 2.901          | 94   | 337                 | 0.301     | ug/l   | 96       |
| 6) Chloroethane               | 3.054          | 64   | 276                 | 0.205     | ug/l # | 44       |
| 11) Tert butyl alcohol        | 5.506          | 59   | 290                 | 0.897     | ug/l # | 75       |
| 16) Acetone                   | 4.430          | 43   | 1137                | 1.615     | ug/l   | 98       |
| 18) Methyl Acetate            | 5.018          | 43   | 1149                | Below Cal | #      | 65       |
| 31) Cyclohexane               | 8.218          | 56   | 3709                | 1.151     | ug/l # | 1        |
| 32) 1,1,1-Trichloroethane     | 8.165          | 97   | 1999                | 0.568     | ug/l # | 46       |
| 36) 1,1-Dichloropropene       | 8.218          | 75   | 14814               | 5.378     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 8.224          | 117  | 19017               | 5.980     | ug/l # | 14       |
| 39) Methylcyclohexane         | 9.347          | 83   | 1290                | 0.451     | ug/l # | 1        |
| 43) Isopropyl Acetate         | 8.694          | 43   | 1266                | 0.243     | ug/l # | 55       |
| 44) Trichloroethene           | 9.347          | 130  | 88308               | 43.613    | ug/l   | 90       |
| 51) 4-Methyl-2-Pentanone      | 10.559         | 43   | 1483                | 0.624     | ug/l # | 1        |
| 60) Dibromochloromethane      | 11.106         | 129  | 2078                | 0.885     | ug/l # | 10       |
| 64) Tetrachloroethene         | 11.100         | 164  | 2087                | 1.169     | ug/l # | 87       |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 67665               | 31.708    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 67665               | 69.997    | ug/l # | 10       |
| 93) 1,2,4-Trichlorobenzene    | 15.400         | 180  | 581                 | 0.254     | ug/l   | 92       |
| 95) Naphthalene               | 15.647         | 128  | 1736                | 0.267     | ug/l # | 69       |
| 96) 1,2,3-Trichlorobenzene    | 15.829         | 180  | 485                 | 0.222     | ug/l   | 76       |
| -----                         |                |      |                     |           |        |          |

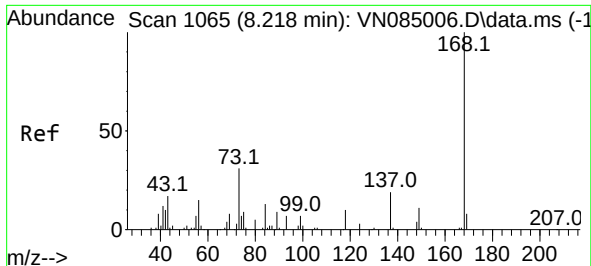
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Nov 23 02:54:10 2024  
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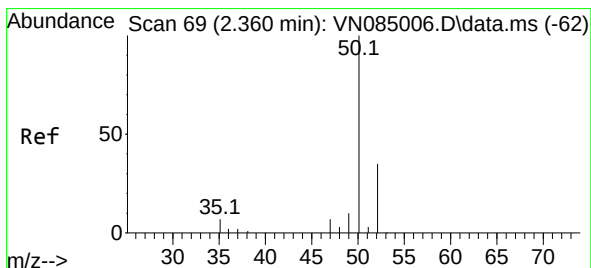
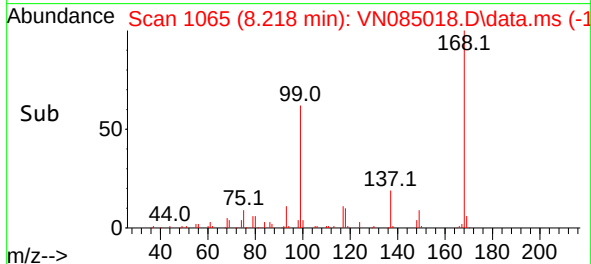
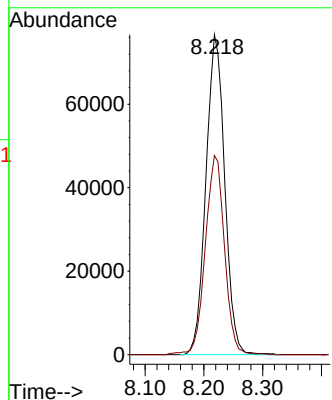
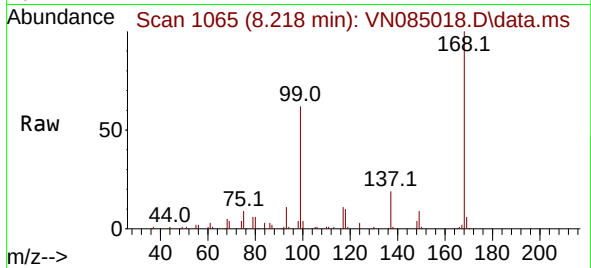




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.218 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VN085018.D  
Acq: 22 Nov 2024 20:05

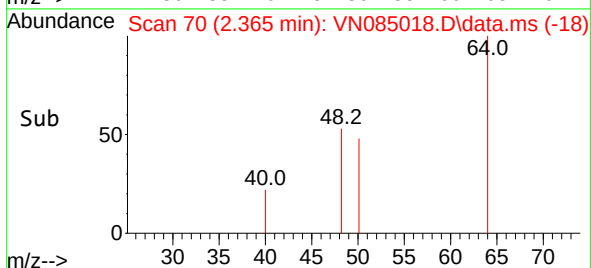
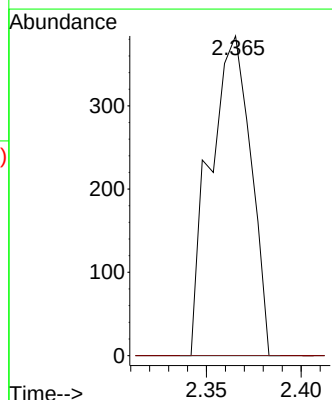
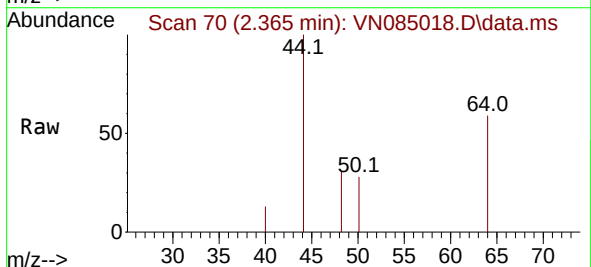
Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-18-20241112

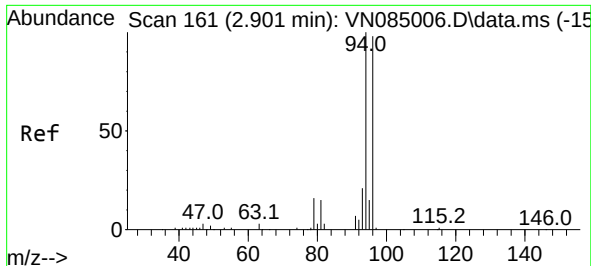
Tgt Ion:168 Resp: 169757  
Ion Ratio Lower Upper  
168 100  
99 62.2 51.2 76.8



#3  
Chloromethane  
Concen: 0.259 ug/l  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN085018.D  
Acq: 22 Nov 2024 20:05

Tgt Ion: 50 Resp: 577  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.8 41.8#

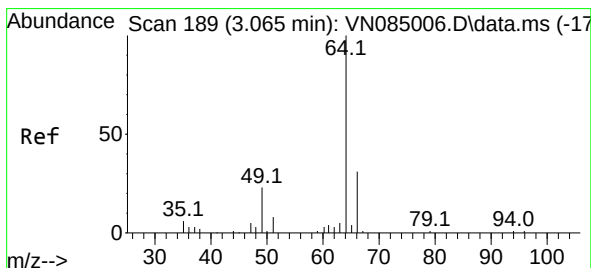
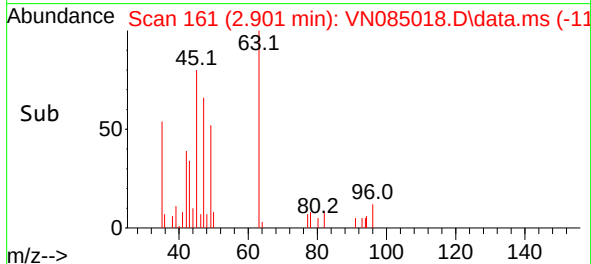
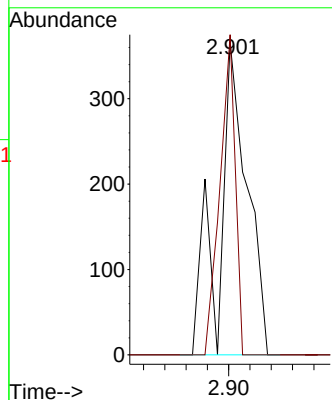
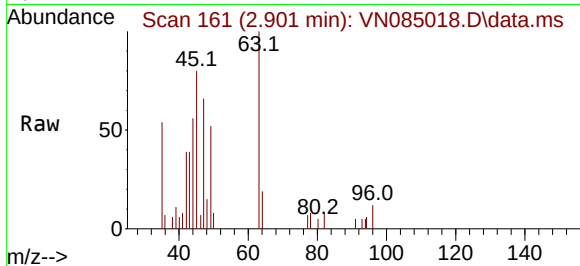




#5  
Bromomethane  
Concen: 0.301 ug/l  
RT: 2.901 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN085018.D  
Acq: 22 Nov 2024 20:05

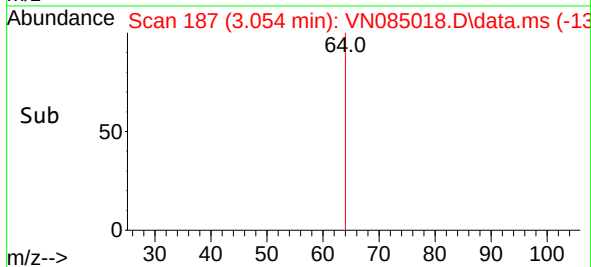
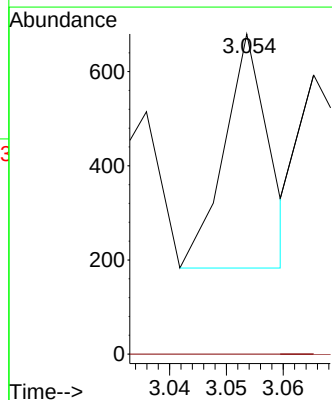
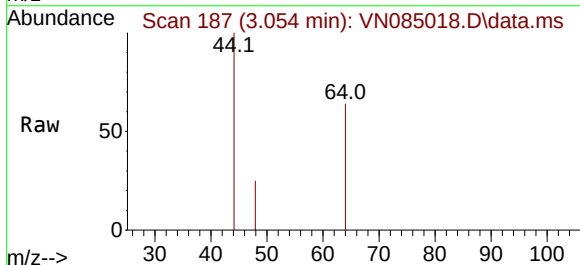
Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-18-20241112

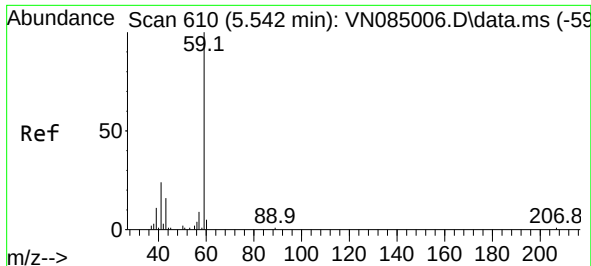
Tgt Ion: 94 Resp: 337  
Ion Ratio Lower Upper  
94 100  
96 102.2 78.7 118.1



#6  
Chloroethane  
Concen: 0.205 ug/l  
RT: 3.054 min Scan# 187  
Delta R.T. -0.012 min  
Lab File: VN085018.D  
Acq: 22 Nov 2024 20:05

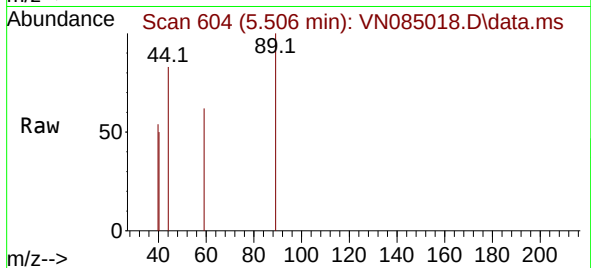
Tgt Ion: 64 Resp: 276  
Ion Ratio Lower Upper  
64 100  
66 0.0 24.4 36.6#



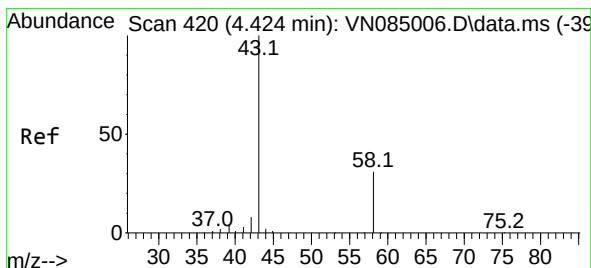
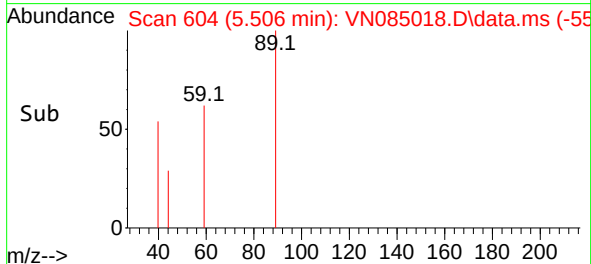
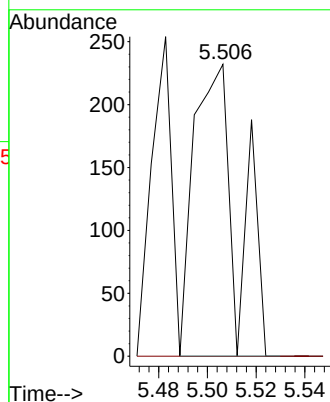


#11  
Tert butyl alcohol  
Concen: 0.897 ug/l  
RT: 5.506 min Scan# 604  
Delta R.T. -0.035 min  
Lab File: VN085018.D  
Acq: 22 Nov 2024 20:05

Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-18-20241112

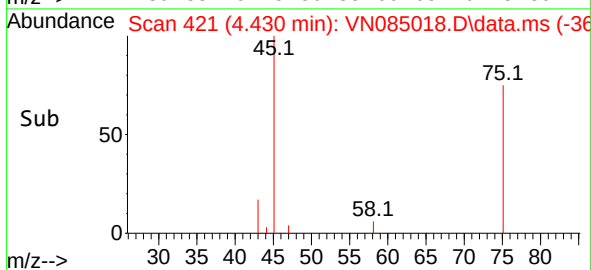
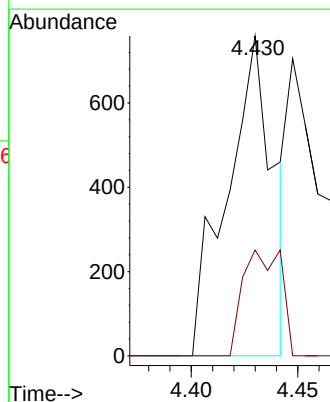
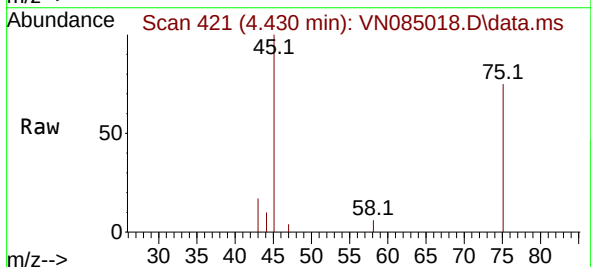


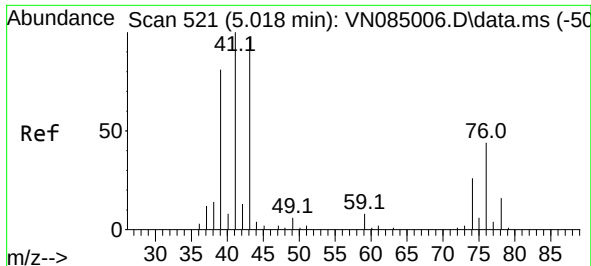
Tgt Ion: 59 Resp: 290  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.4 11.0#



#16  
Acetone  
Concen: 1.615 ug/l  
RT: 4.430 min Scan# 421  
Delta R.T. 0.006 min  
Lab File: VN085018.D  
Acq: 22 Nov 2024 20:05

Tgt Ion: 43 Resp: 1137  
Ion Ratio Lower Upper  
43 100  
58 33.1 25.4 38.2

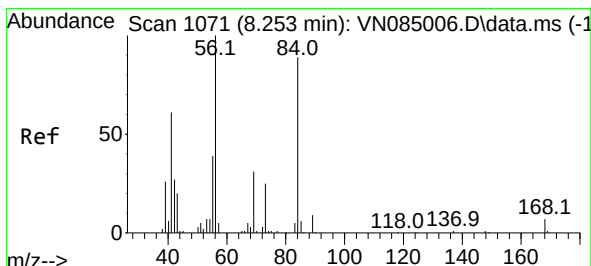
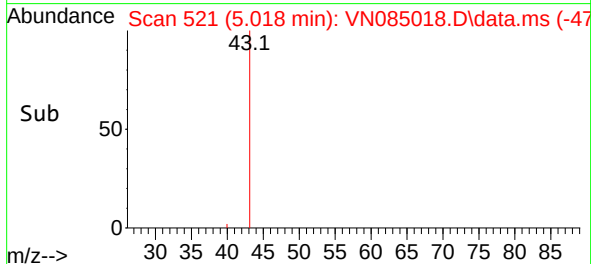
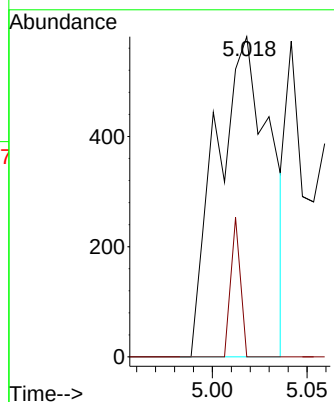
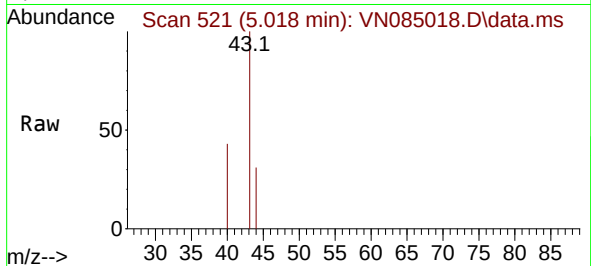




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 5.018 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VN085018.D  
Acq: 22 Nov 2024 20:05

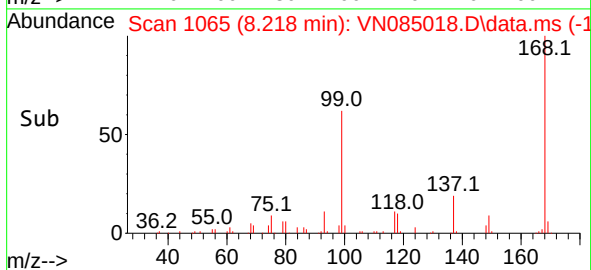
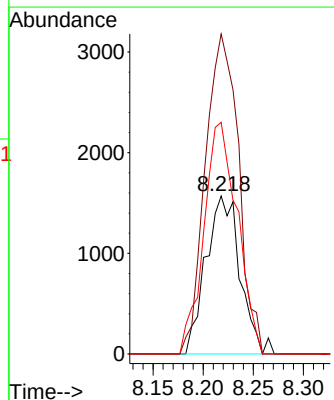
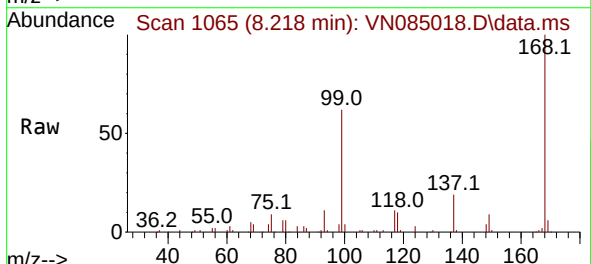
Instrument :  
MSVOA\_N  
ClientSampleId :  
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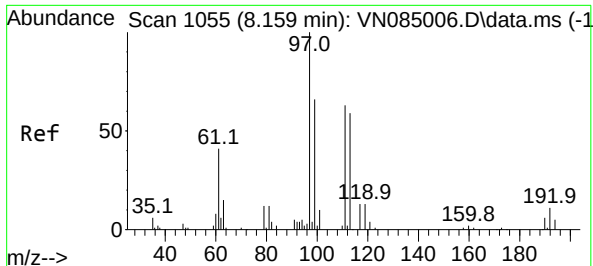
Tgt Ion: 43 Resp: 1149  
Ion Ratio Lower Upper  
43 100  
74 7.7 20.1 30.1#



#31  
Cyclohexane  
Concen: 1.151 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.035 min  
Lab File: VN085018.D  
Acq: 22 Nov 2024 20:05

Tgt Ion: 56 Resp: 3709  
Ion Ratio Lower Upper  
56 100  
69 202.7 24.6 36.8#  
84 146.8 71.4 107.2#





#32

1,1,1-Trichloroethane

Concen: 0.568 ug/l

RT: 8.165 min Scan# 1055

Delta R.T. 0.006 min

Lab File: VN085018.D

Acq: 22 Nov 2024 20:05

Instrument :

MSVOA\_N

ClientSampleId :

FSND-MW-18-20241112

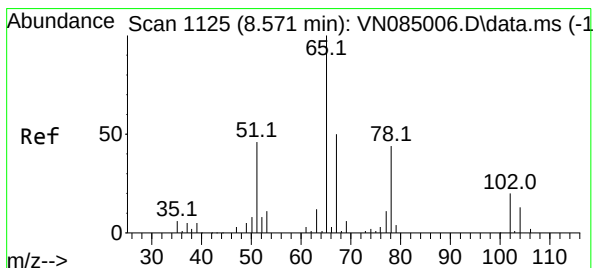
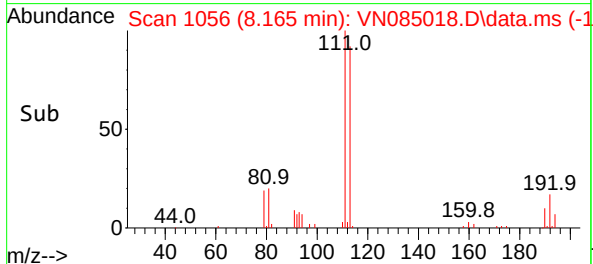
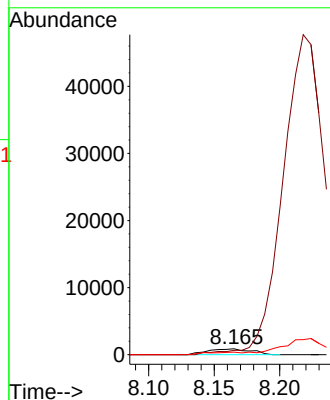
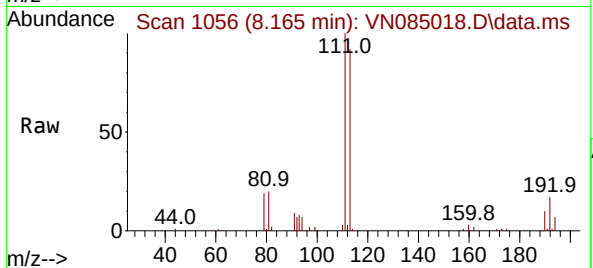
Tgt Ion: 97 Resp: 1999

Ion Ratio Lower Upper

97 100

99 0.0 51.0 76.4#

61 34.8 36.2 54.2#



#33

1,2-Dichloroethane-d4

Concen: 51.674 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. -0.000 min

Lab File: VN085018.D

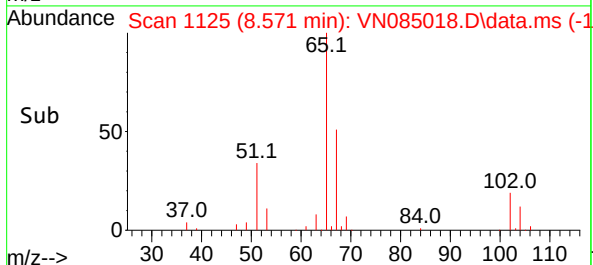
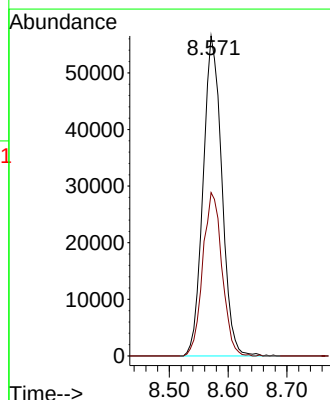
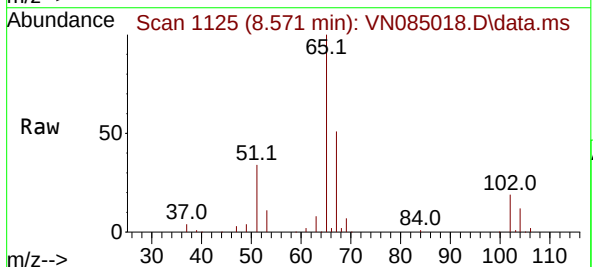
Acq: 22 Nov 2024 20:05

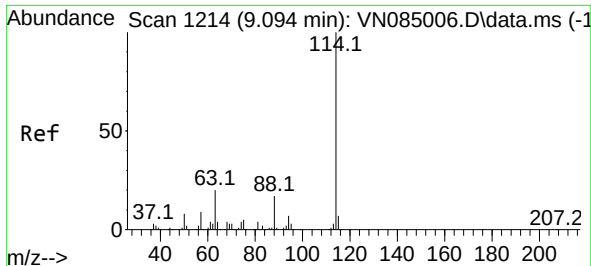
Tgt Ion: 65 Resp: 124950

Ion Ratio Lower Upper

65 100

67 52.4 0.0 105.0

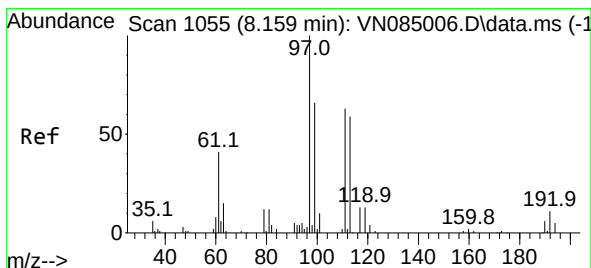
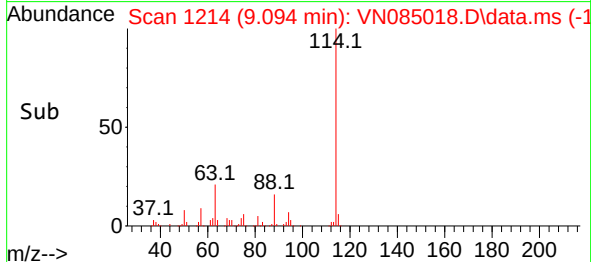
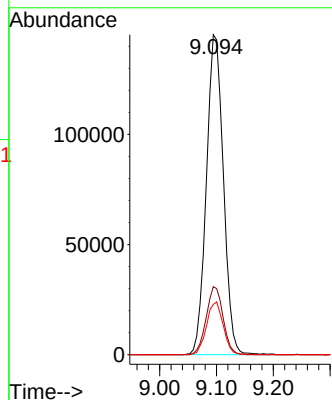
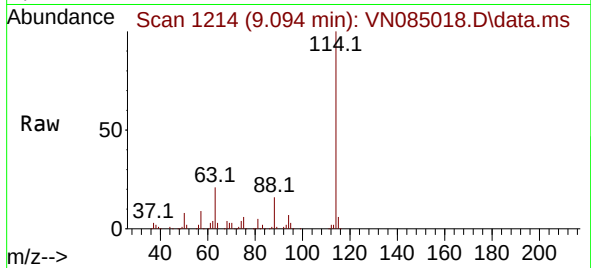




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.094 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN085018.D  
Acq: 22 Nov 2024 20:05

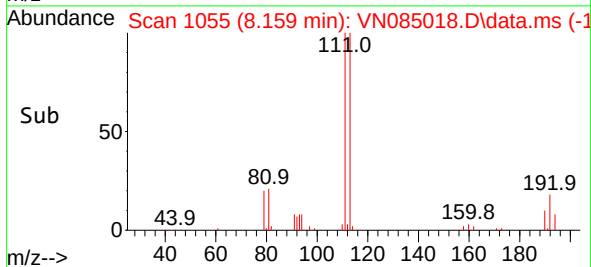
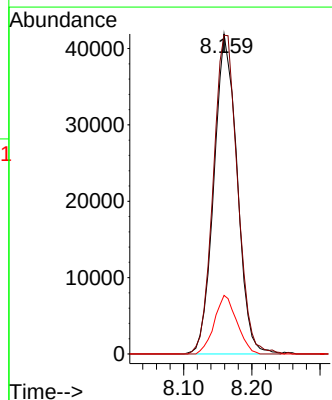
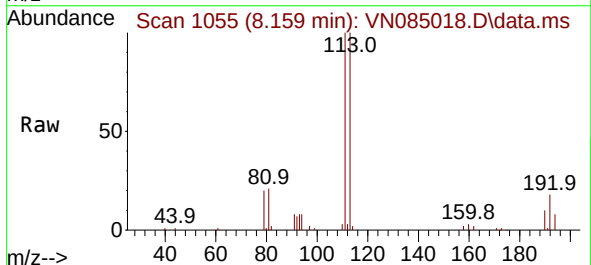
Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-18-20241112

Tgt Ion:114 Resp: 301590  
Ion Ratio Lower Upper  
114 100  
63 21.3 0.0 41.0  
88 15.7 0.0 34.8

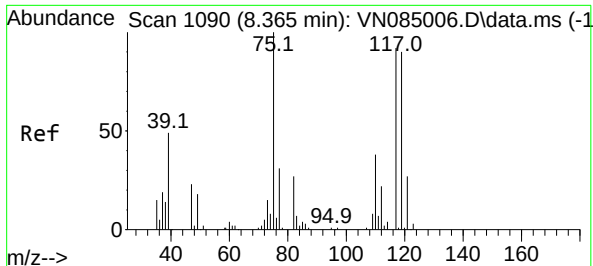


#35  
Dibromofluoromethane  
Concen: 48.691 ug/l  
RT: 8.159 min Scan# 1055  
Delta R.T. 0.000 min  
Lab File: VN085018.D  
Acq: 22 Nov 2024 20:05

Tgt Ion:113 Resp: 99028  
Ion Ratio Lower Upper  
113 100  
111 104.3 82.0 123.0  
192 17.8 14.8 22.2







#36

1,1-Dichloropropene

Concen: 5.378 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN085018.D

Acq: 22 Nov 2024 20:05

Instrument :

MSVOA\_N

ClientSampleId :

FSND-MW-18-20241112

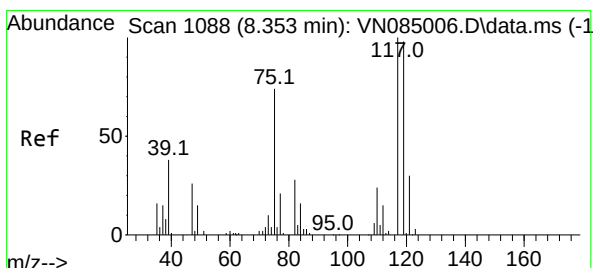
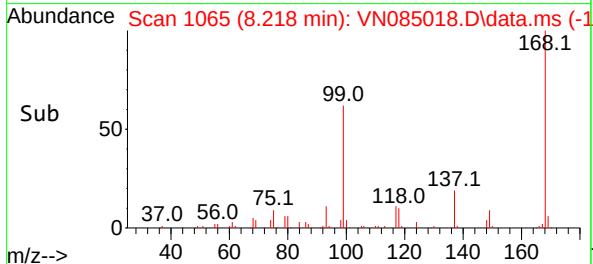
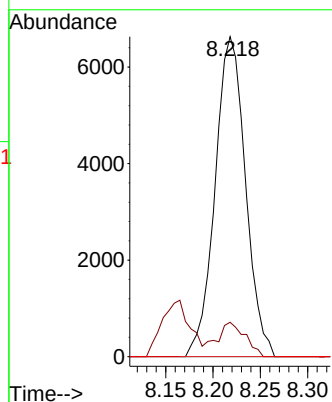
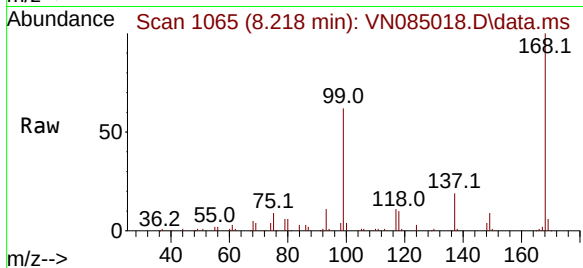
Tgt Ion: 75 Resp: 14814

Ion Ratio Lower Upper

75 100

110 9.2 17.2 51.6#

77 0.0 24.2 36.4#



#38

Carbon Tetrachloride

Concen: 5.980 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.129 min

Lab File: VN085018.D

Acq: 22 Nov 2024 20:05

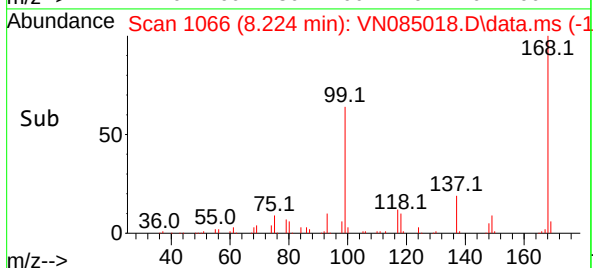
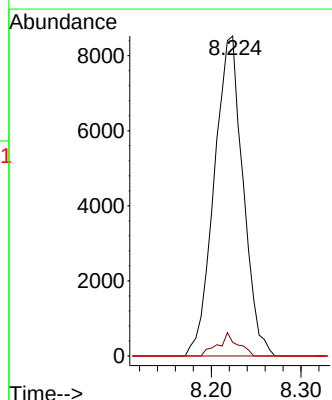
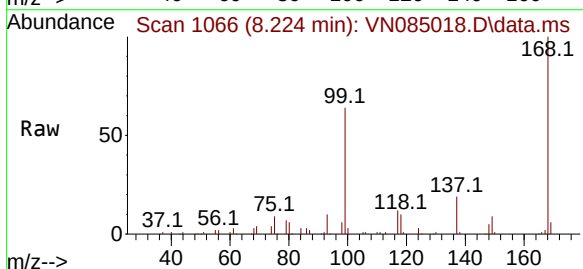
Tgt Ion: 117 Resp: 19017

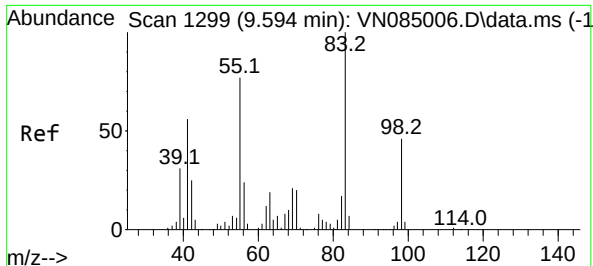
Ion Ratio Lower Upper

117 100

119 4.3 78.6 117.8#

121 0.0 24.2 36.2#





#39

Methylcyclohexane

Concen: 0.451 ug/l

RT: 9.347 min Scan# 1129

Delta R.T. -0.247 min

Lab File: VN085018.D

Acq: 22 Nov 2024 20:05

Instrument :

MSVOA\_N

ClientSampleId :

FSND-MW-18-20241112

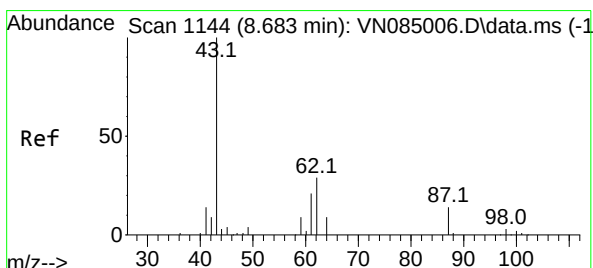
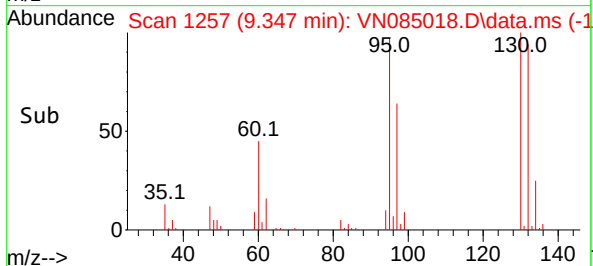
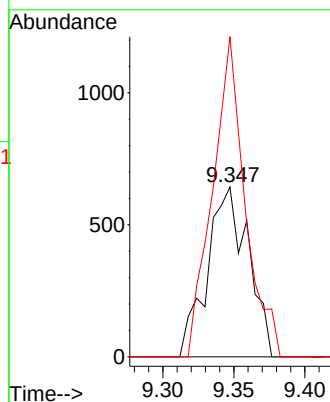
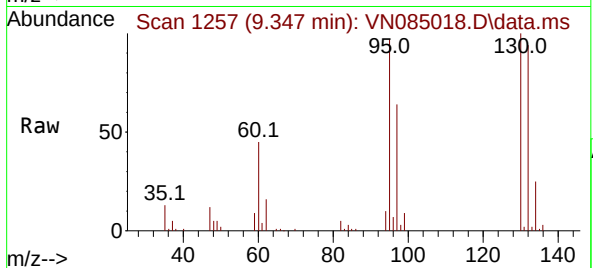
Tgt Ion: 83 Resp: 1290

Ion Ratio Lower Upper

83 100

55 0.0 61.8 92.6#

98 188.6 37.0 55.6#



#43

Isopropyl Acetate

Concen: 0.243 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.012 min

Lab File: VN085018.D

Acq: 22 Nov 2024 20:05

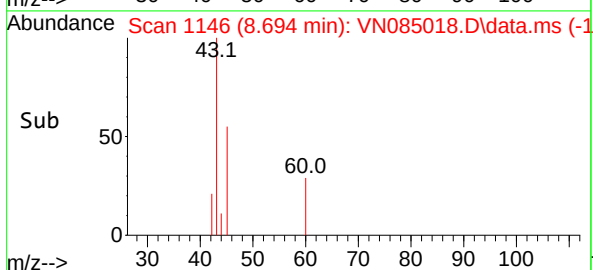
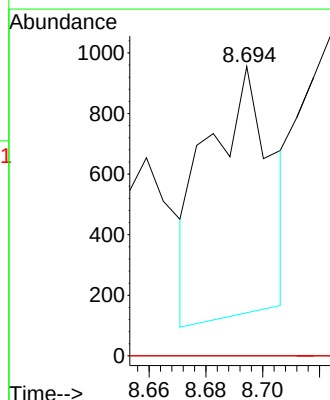
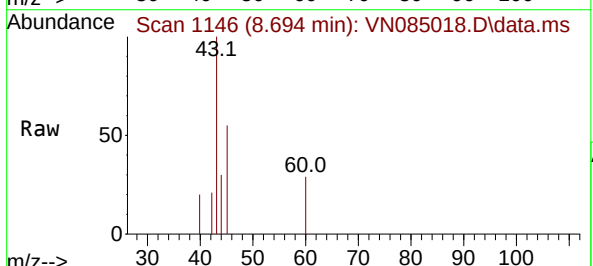
Tgt Ion: 43 Resp: 1266

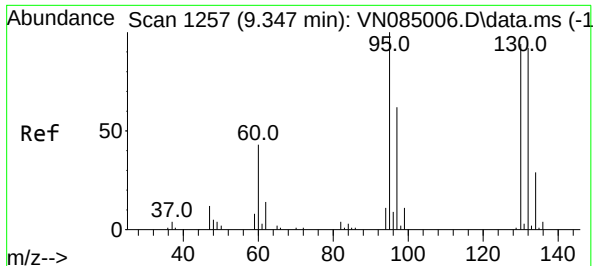
Ion Ratio Lower Upper

43 100

61 0.0 20.6 30.8#

87 0.0 11.0 16.4#

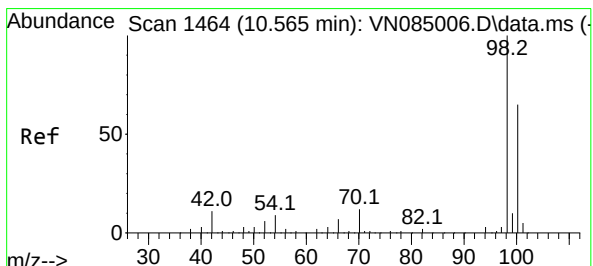
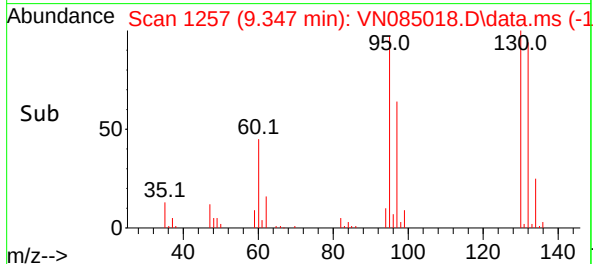
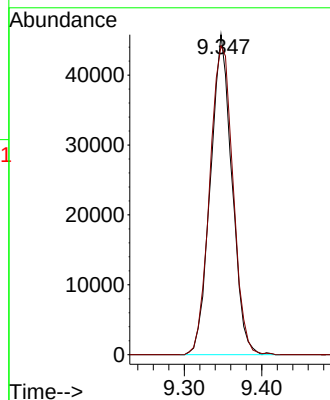
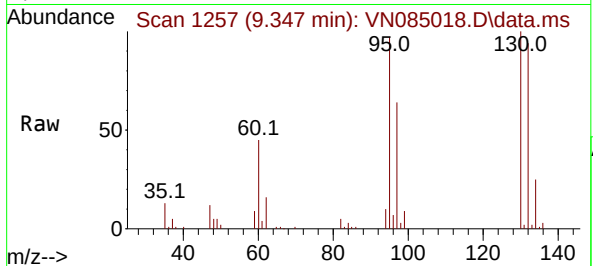




#44  
Trichloroethene  
Concen: 43.613 ug/l  
RT: 9.347 min Scan# 1257  
Delta R.T. -0.000 min  
Lab File: VN085018.D  
Acq: 22 Nov 2024 20:05

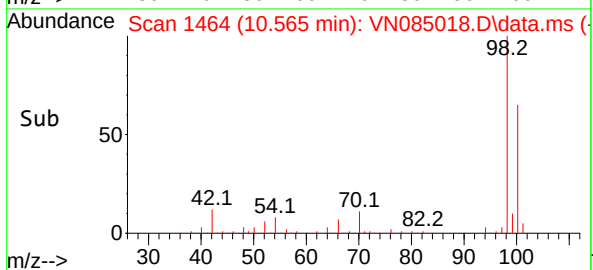
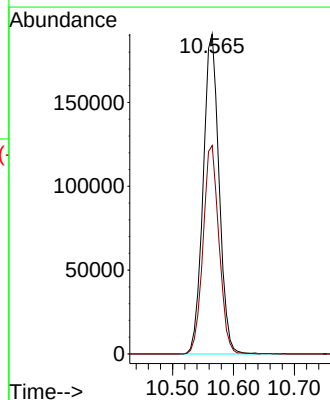
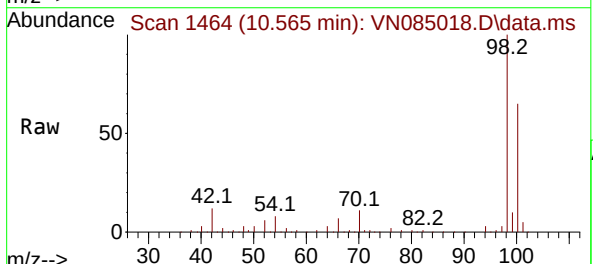
Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-18-20241112

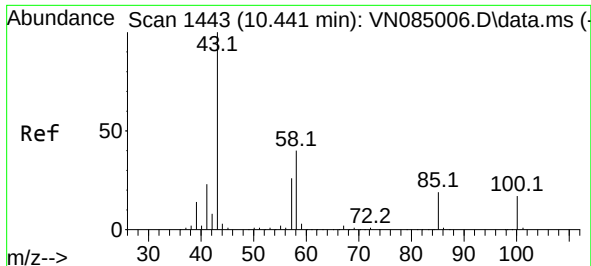
Tgt Ion:130 Resp: 88308  
Ion Ratio Lower Upper  
130 100  
95 96.5 0.0 213.4



#50  
Toluene-d8  
Concen: 47.576 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN085018.D  
Acq: 22 Nov 2024 20:05

Tgt Ion: 98 Resp: 346771  
Ion Ratio Lower Upper  
98 100  
100 65.2 52.5 78.7

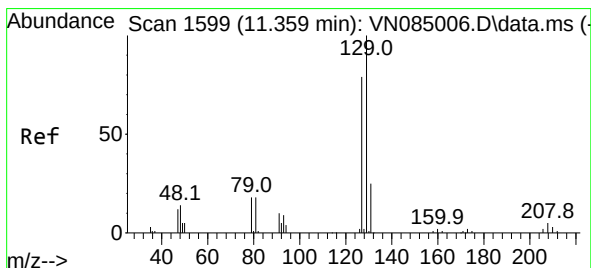
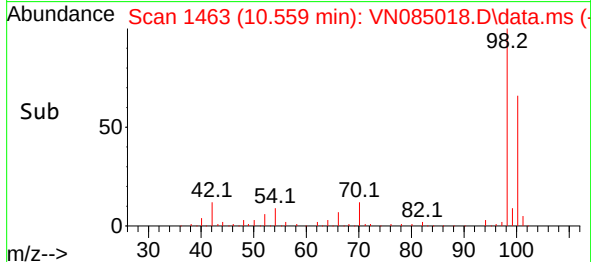
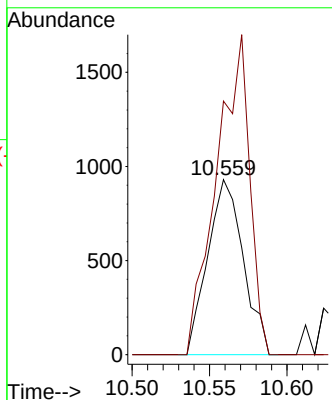
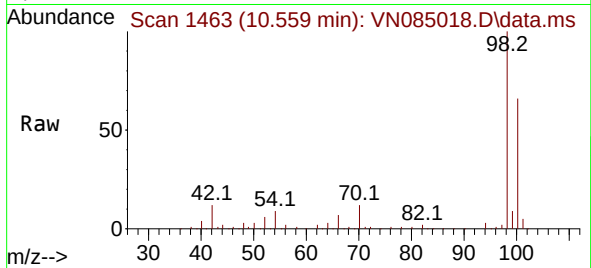




#51  
4-Methyl-2-Pentanone  
Concen: 0.624 ug/l  
RT: 10.559 min Scan# 1443  
Delta R.T. 0.118 min  
Lab File: VN085018.D  
Acq: 22 Nov 2024 20:05

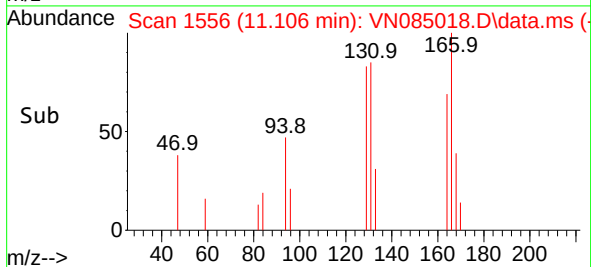
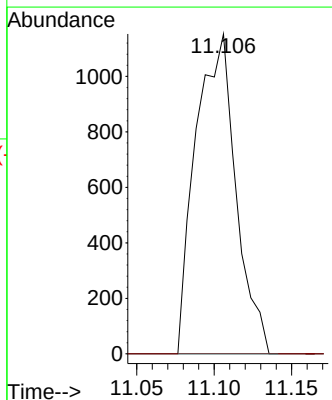
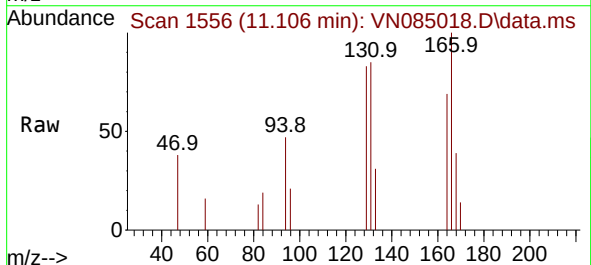
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MSVOA\_N  
ClientSampleId :  
FSND-MW-18-20241112

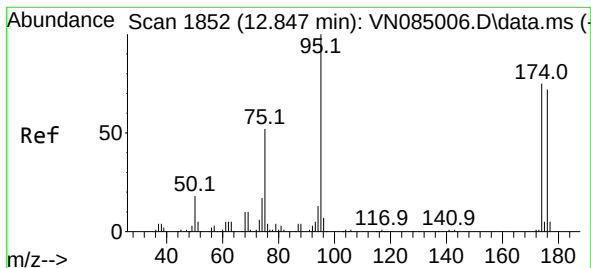
Tgt Ion: 43 Resp: 1483  
Ion Ratio Lower Upper  
43 100  
58 170.3 32.1 48.1#



#60  
Dibromochloromethane  
Concen: 0.885 ug/l  
RT: 11.106 min Scan# 1556  
Delta R.T. -0.253 min  
Lab File: VN085018.D  
Acq: 22 Nov 2024 20:05

Tgt Ion: 129 Resp: 2078  
Ion Ratio Lower Upper  
129 100  
127 0.0 39.2 117.6#

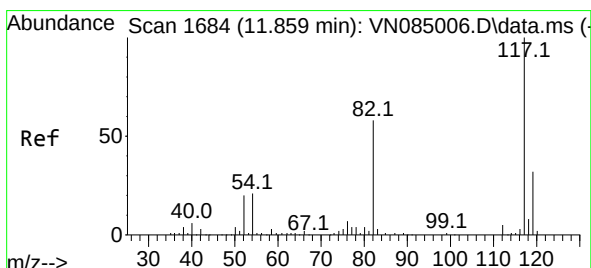
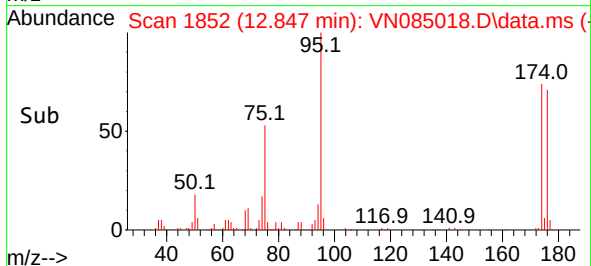
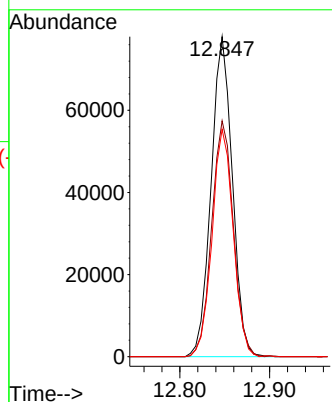
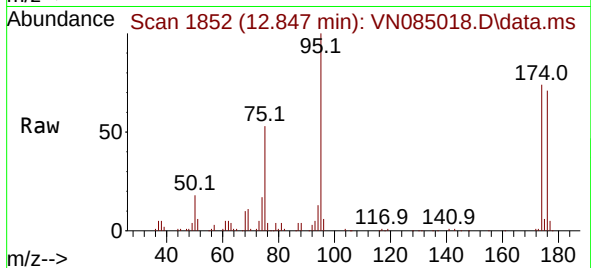




#62  
4-Bromofluorobenzene  
Concen: 46.950 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN085018.D  
Acq: 22 Nov 2024 20:05

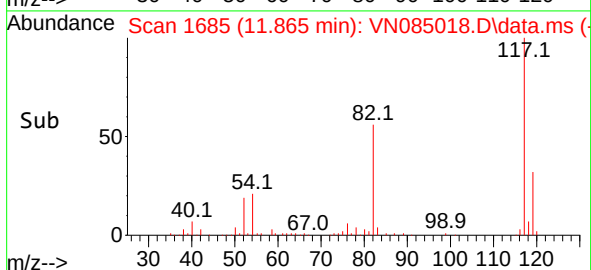
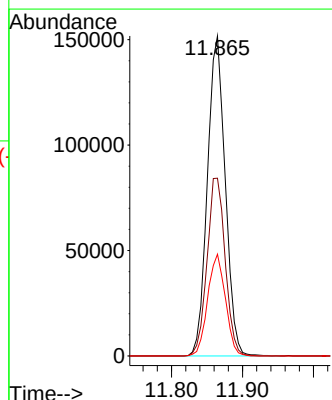
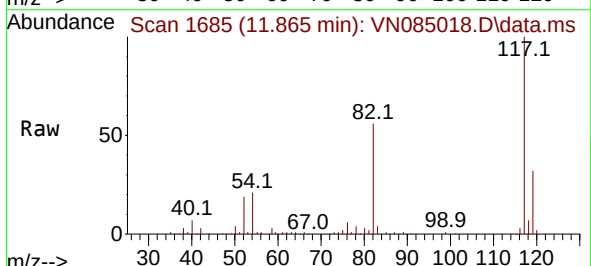
Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-18-20241112

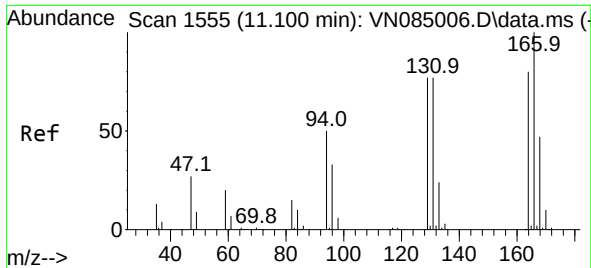
Tgt Ion: 95 Resp: 127974  
Ion Ratio Lower Upper  
95 100  
174 75.1 0.0 146.6  
176 70.9 0.0 141.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. 0.006 min  
Lab File: VN085018.D  
Acq: 22 Nov 2024 20:05

Tgt Ion: 117 Resp: 265028  
Ion Ratio Lower Upper  
117 100  
82 55.5 46.0 69.0  
119 31.8 25.6 38.4

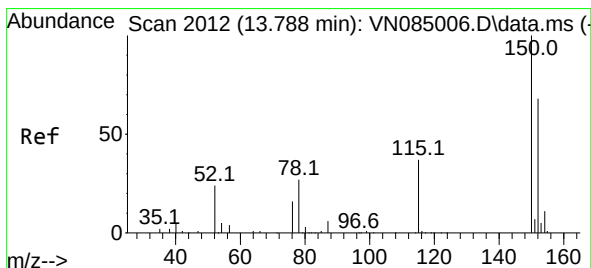
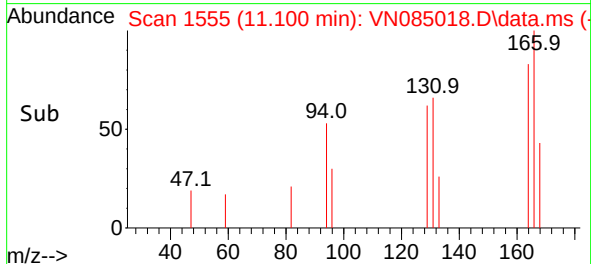
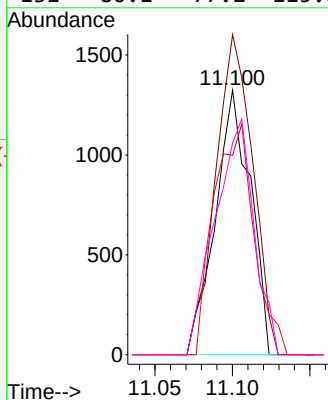
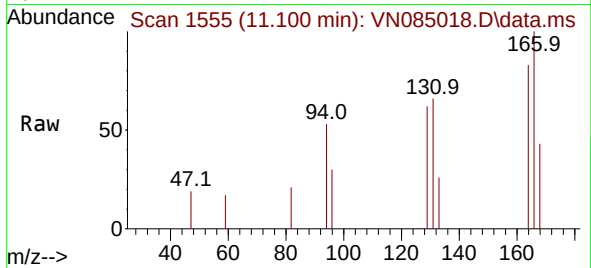




#64  
Tetrachloroethene  
Concen: 1.169 ug/l  
RT: 11.100 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN085018.D  
Acq: 22 Nov 2024 20:05

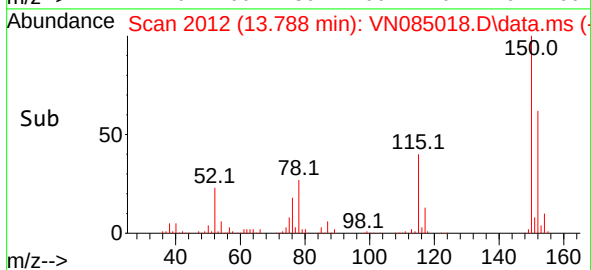
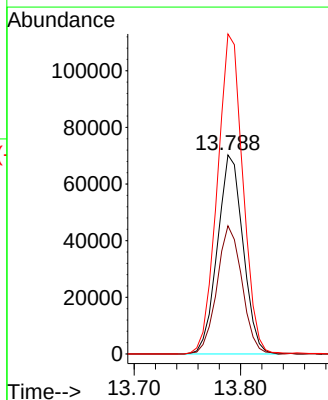
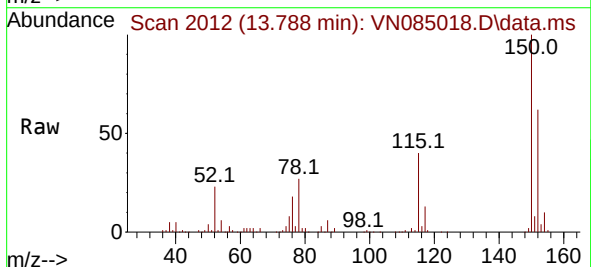
Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-18-20241112

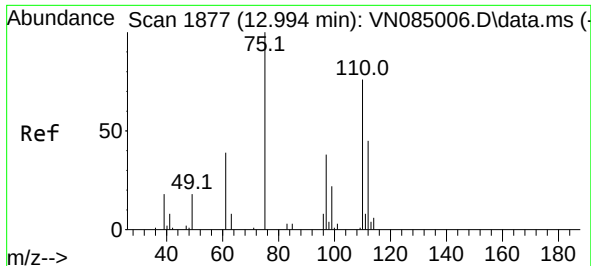
Tgt Ion:164 Resp: 2087  
Ion Ratio Lower Upper  
164 100  
166 121.0 100.6 151.0  
129 75.4 77.7 116.5#  
131 80.1 77.2 115.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. -0.000 min  
Lab File: VN085018.D  
Acq: 22 Nov 2024 20:05

Tgt Ion:152 Resp: 117323  
Ion Ratio Lower Upper  
152 100  
115 62.8 31.7 95.1  
150 160.3 0.0 351.4

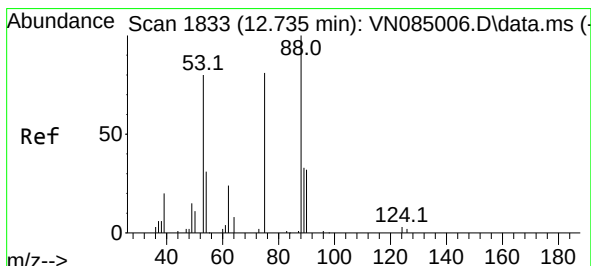
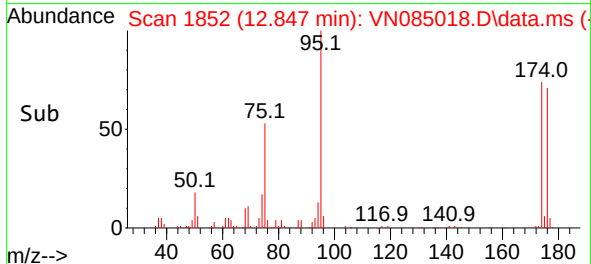
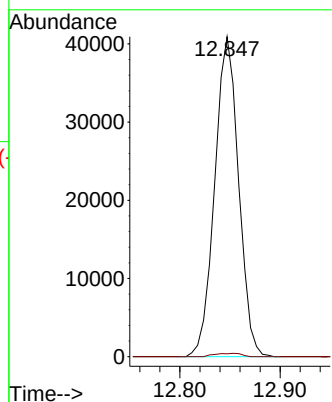
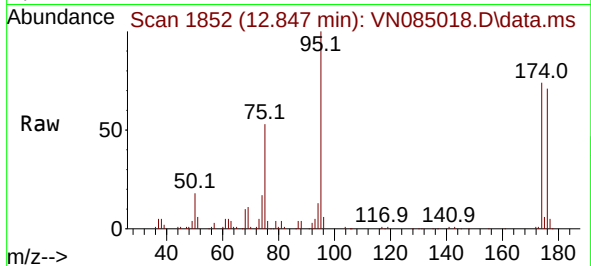




#76  
1,2,3-Trichloropropane  
Concen: 31.708 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN085018.D  
Acq: 22 Nov 2024 20:05

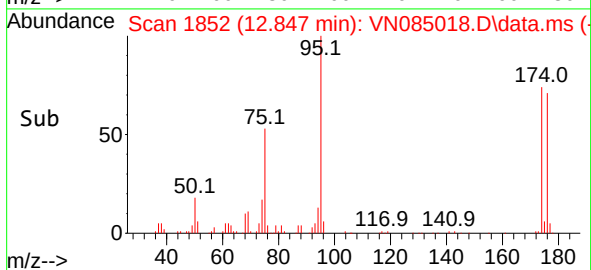
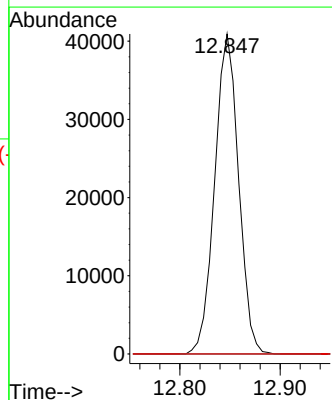
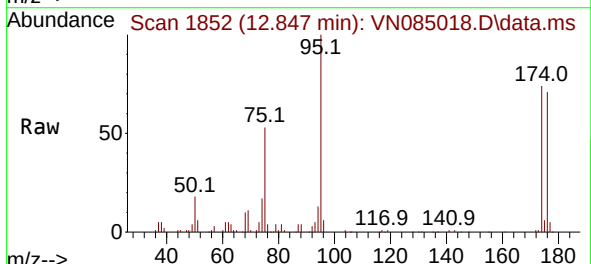
Instrument :  
MSVOA\_N  
ClientSampleId :  
FSND-MW-18-20241112

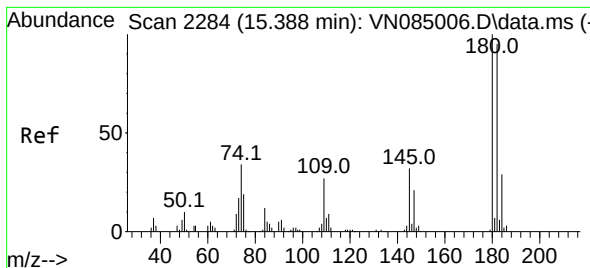
Tgt Ion: 75 Resp: 67665  
Ion Ratio Lower Upper  
75 100  
77 1.2 109.1 327.4#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 69.997 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN085018.D  
Acq: 22 Nov 2024 20:05

Tgt Ion: 75 Resp: 67665  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.2 117.4#  
89 0.0 37.9 56.9#





#93

1,2,4-Trichlorobenzene

Concen: 0.254 ug/l

RT: 15.400 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN085018.D

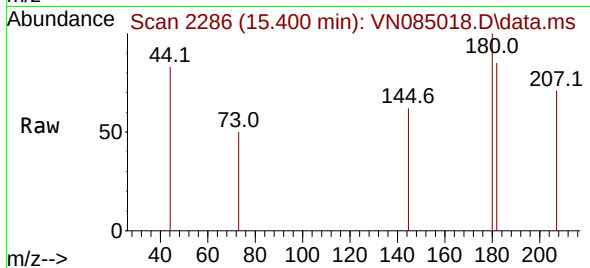
Acq: 22 Nov 2024 20:05

Instrument :

MSVOA\_N

ClientSampleId :

FSND-MW-18-20241112



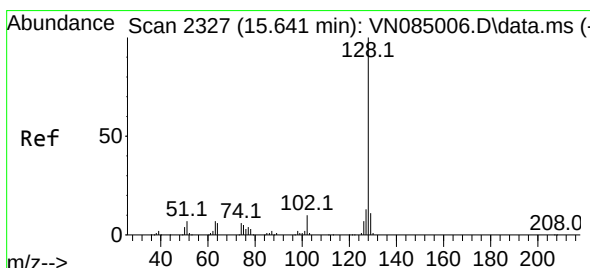
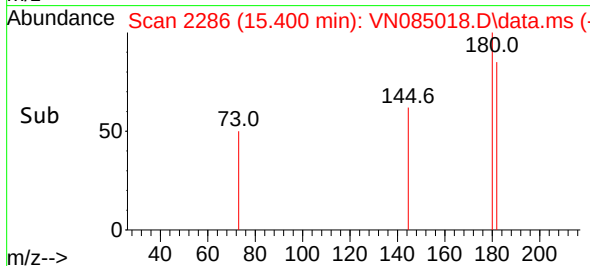
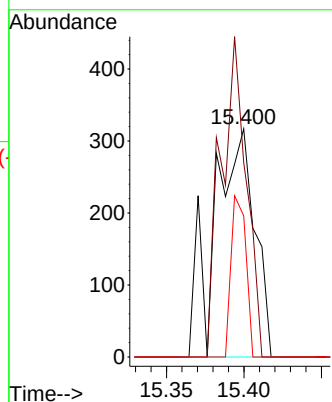
Tgt Ion:180 Resp: 581

Ion Ratio Lower Upper

180 100

182 87.3 46.9 140.8

145 25.5 16.3 48.8



#95

Naphthalene

Concen: 0.267 ug/l

RT: 15.647 min Scan# 2328

Delta R.T. 0.006 min

Lab File: VN085018.D

Acq: 22 Nov 2024 20:05

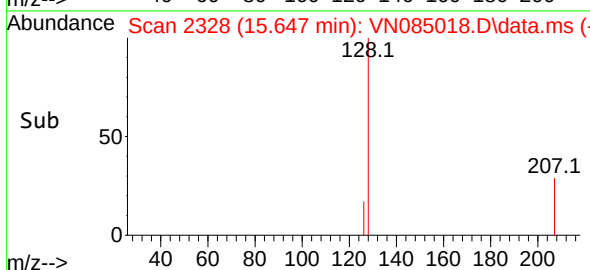
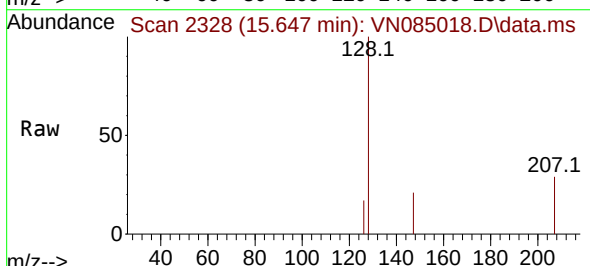
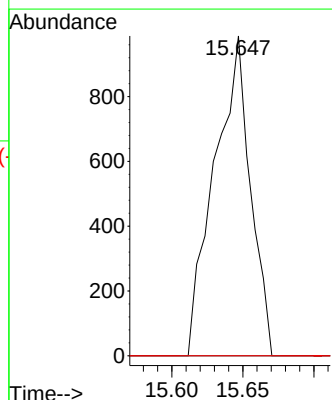
Tgt Ion:128 Resp: 1736

Ion Ratio Lower Upper

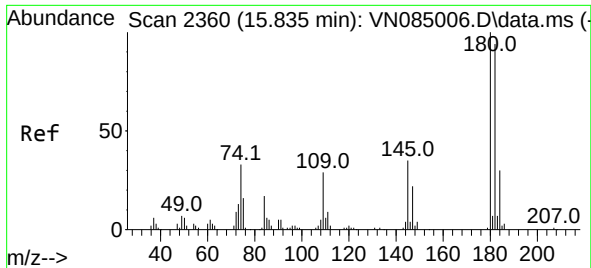
128 100

127 0.0 10.6 16.0#

129 0.0 8.6 12.8#

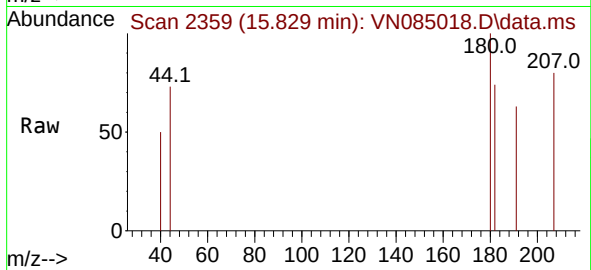






#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.222 ug/l  
 RT: 15.829 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: VN085018.D  
 Acq: 22 Nov 2024 20:05

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FSND-MW-18-20241112



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 485   |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 123.5 | 46.4  | 139.2 |
| 145      | 36.1  | 17.3  | 52.0  |

