

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091924\  
 Data File : VN084049.D  
 Acq On : 19 Sep 2024 21:18  
 Operator : JC\MD  
 Sample : P4003-14  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE126D2-20240912

Quant Time: Sep 20 01:38:16 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 11 15:18:56 2024  
 Response via : Initial Calibration

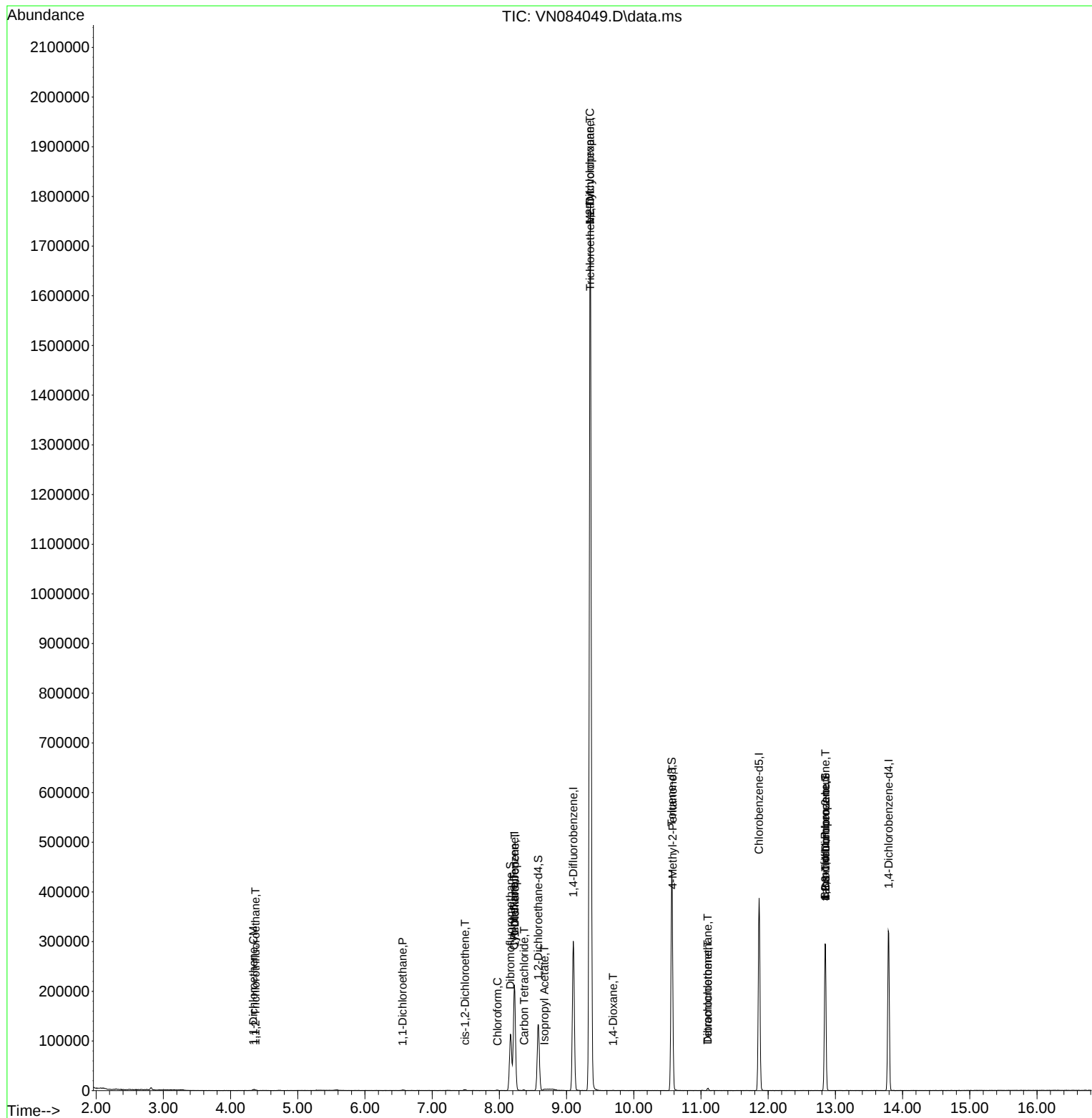
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 141725              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100          | 114  | 246345              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 206804              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 81942               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577          | 65   | 114320              | 53.495    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 107.000% |           |        |          |
| 35) Dibromofluoromethane      | 8.165          | 113  | 79774               | 50.584    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 101.160% |           |        |          |
| 50) Toluene-d8                | 10.565         | 98   | 296923              | 54.461    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 108.920% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.853         | 95   | 99311               | 44.151    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = 88.300%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 3) Chloromethane              | 2.359          | 50   | 545                 | Below Cal | #      | 68       |
| 9) 1,1,2-Trichlorotrifluo...  | 4.371          | 101  | 705                 | 0.434     | ug/l # | 41       |
| 12) 1,1-Dichloroethene        | 4.342          | 96   | 1141                | 0.744     | ug/l # | 54       |
| 18) Methyl Acetate            | 5.018          | 43   | 118                 | Below Cal | #      | 52       |
| 24) 1,1-Dichloroethane        | 6.559          | 63   | 1867                | 0.576     | ug/l # | 82       |
| 27) cis-1,2-Dichloroethene    | 7.488          | 96   | 1181                | 0.606     | ug/l   | 37       |
| 30) Chloroform                | 7.971          | 83   | 963                 | 0.280     | ug/l # | 75       |
| 31) Cyclohexane               | 8.218          | 56   | 3575                | 1.157     | ug/l # | 26       |
| 36) 1,1-Dichloropropene       | 8.230          | 75   | 14133               | 5.954     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.371          | 117  | 1126                | 0.418     | ug/l # | 48       |
| 39) Methylcyclohexane         | 9.347          | 83   | 8252                | 3.054     | ug/l # | 1        |
| 43) Isopropyl Acetate         | 8.671          | 43   | 1283                | 0.329     | ug/l # | 57       |
| 44) Trichloroethene           | 9.353          | 130  | 596806              | 360.718   | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.347          | 63   | 2134                | 1.236     | ug/l # | 1        |
| 49) 1,4-Dioxane               | 9.694          | 88   | 454                 | 14.898    | ug/l # | 87       |
| 51) 4-Methyl-2-Pentanone      | 10.576         | 43   | 1577                | 0.742     | ug/l # | 1        |
| 60) Dibromochloromethane      | 11.100         | 129  | 1077                | 0.590     | ug/l # | 10       |
| 64) Tetrachloroethene         | 11.100         | 164  | 1144                | 0.832     | ug/l   | 94       |
| 71) Bromoform                 | 12.847         | 173  | 743                 | 0.692     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 58307               | 35.264    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 58307               | 92.360    | ug/l # | 9        |
| -----                         |                |      |                     |           |        |          |

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

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Instrument :  
MSVOA\_N  
ClientSampleId :  
RE126D2-20240912

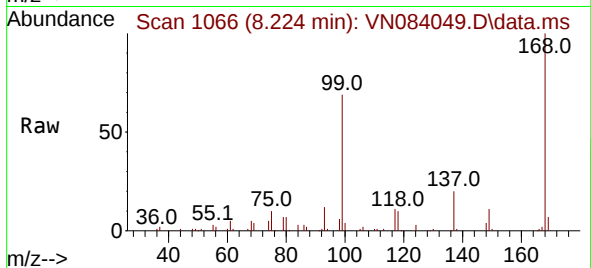
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 11 15:18:56 2024  
Response via : Initial Calibration



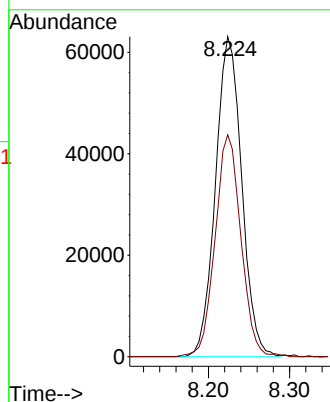
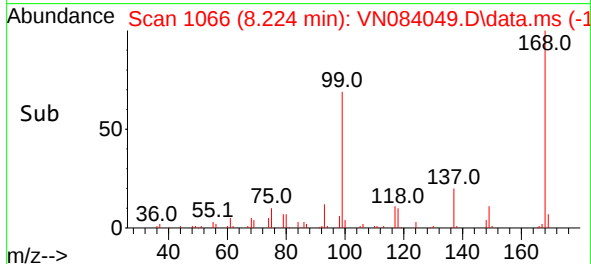


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN084049.D  
Acq: 19 Sep 2024 21:18

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE126D2-20240912

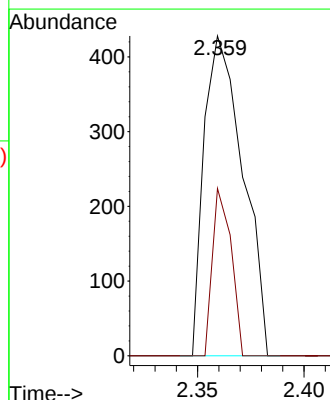
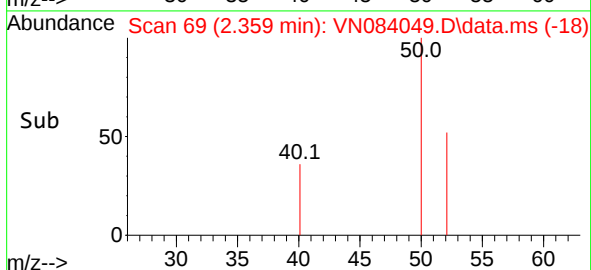
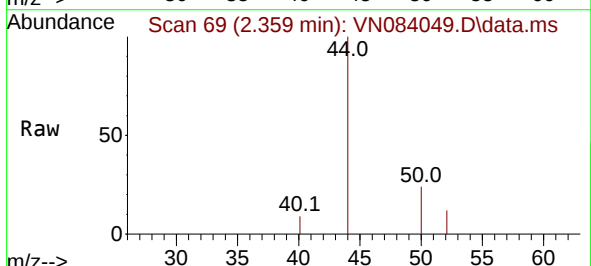


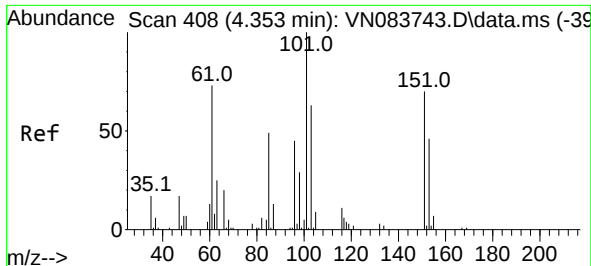
Tgt Ion:168 Resp: 141725  
Ion Ratio Lower Upper  
168 100  
99 69.1 54.2 81.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.359 min Scan# 69  
Delta R.T. 0.000 min  
Lab File: VN084049.D  
Acq: 19 Sep 2024 21:18

Tgt Ion: 50 Resp: 545  
Ion Ratio Lower Upper  
50 100  
52 52.3 27.2 40.8#

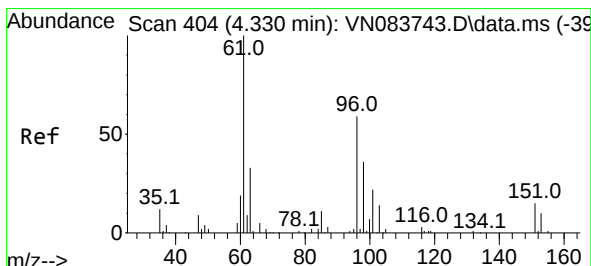
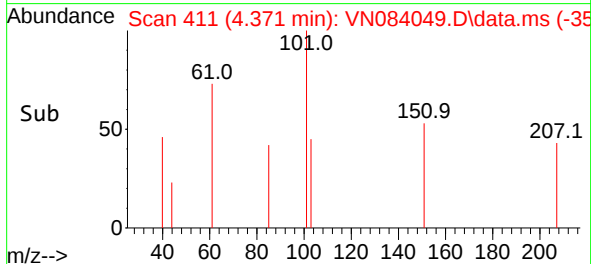
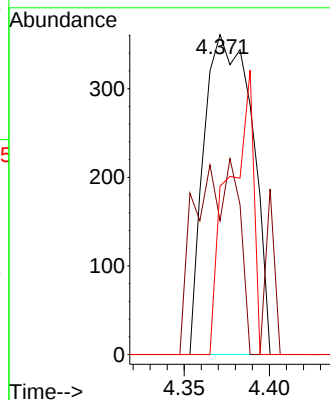
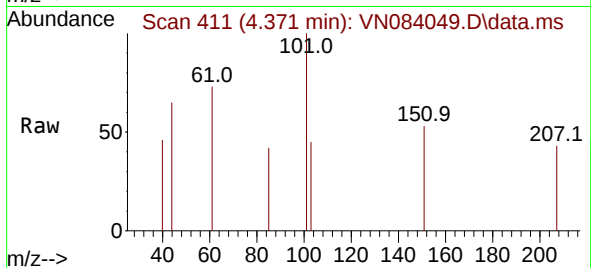




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.434 ug/l  
RT: 4.371 min Scan# 411  
Delta R.T. 0.018 min  
Lab File: VN084049.D  
Acq: 19 Sep 2024 21:18

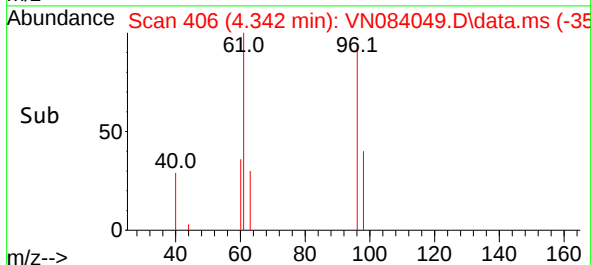
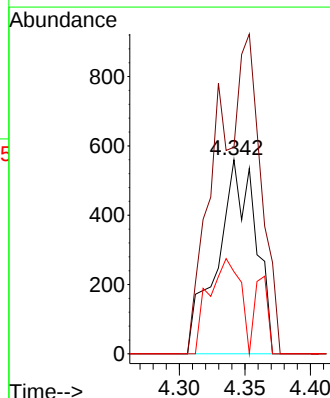
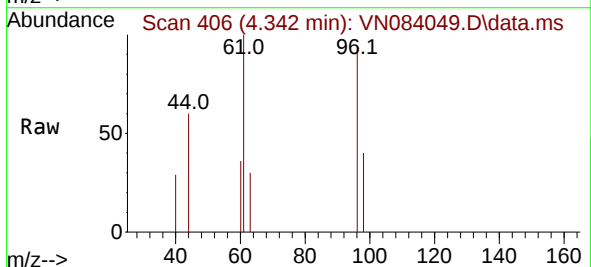
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE126D2-20240912

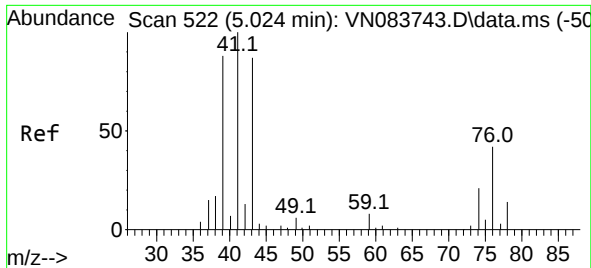
Tgt Ion:101 Resp: 705  
Ion Ratio Lower Upper  
101 100  
85 54.5 36.2 54.4#  
151 0.0 57.7 86.5#



#12  
1,1-Dichloroethene  
Concen: 0.744 ug/l  
RT: 4.342 min Scan# 406  
Delta R.T. 0.012 min  
Lab File: VN084049.D  
Acq: 19 Sep 2024 21:18

Tgt Ion: 96 Resp: 1141  
Ion Ratio Lower Upper  
96 100  
61 106.4 143.4 215.0#  
98 42.3 52.7 79.1#





#18

Methyl Acetate

Concen: Below Cal

RT: 5.018 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN084049.D

Acq: 19 Sep 2024 21:18

Instrument :

MSVOA\_N

ClientSampleId :

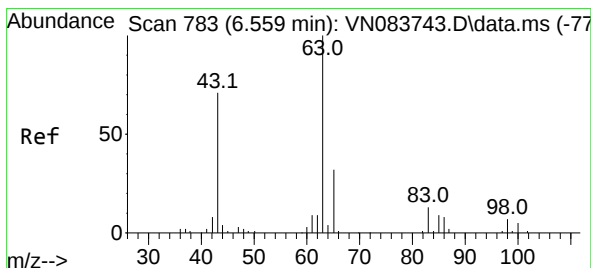
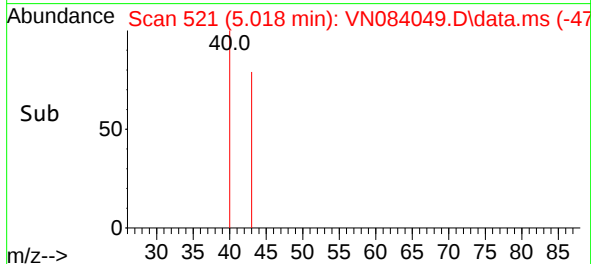
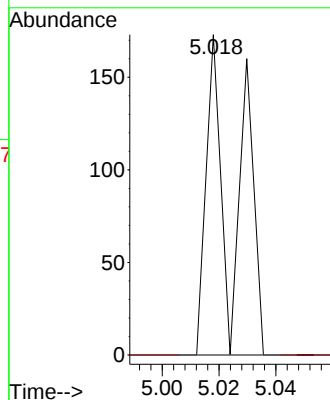
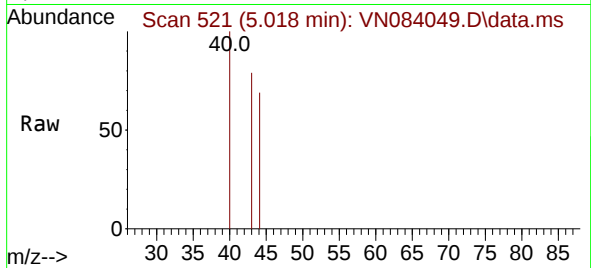
RE126D2-20240912

Tgt Ion: 43 Resp: 118

Ion Ratio Lower Upper

43 100

74 0.0 19.0 28.4#



#24

1,1-Dichloroethane

Concen: 0.576 ug/l

RT: 6.559 min Scan# 783

Delta R.T. -0.000 min

Lab File: VN084049.D

Acq: 19 Sep 2024 21:18

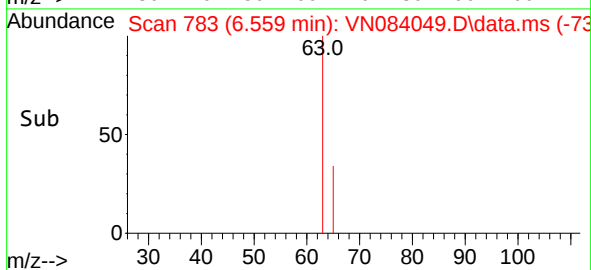
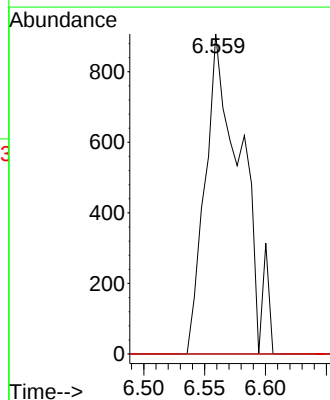
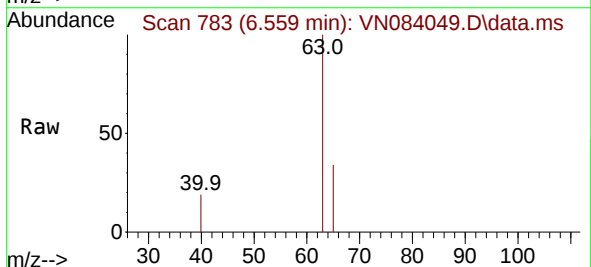
Tgt Ion: 63 Resp: 1867

Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.4#

100 0.0 2.5 7.5#

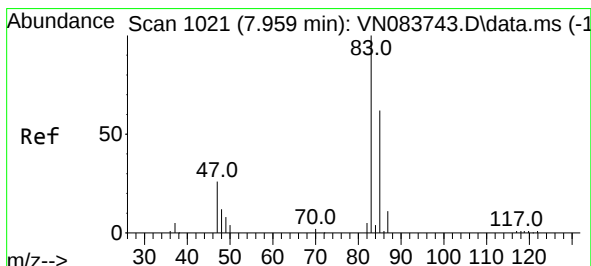
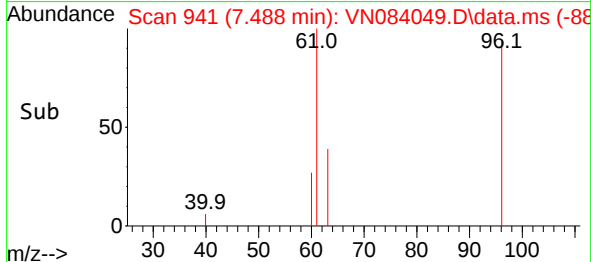
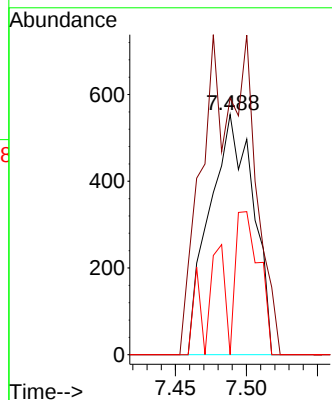
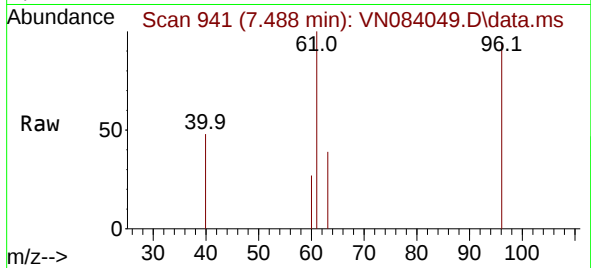




#27  
 cis-1,2-Dichloroethene  
 Concen: 0.606 ug/l  
 RT: 7.488 min Scan# 941  
 Delta R.T. 0.006 min  
 Lab File: VN084049.D  
 Acq: 19 Sep 2024 21:18

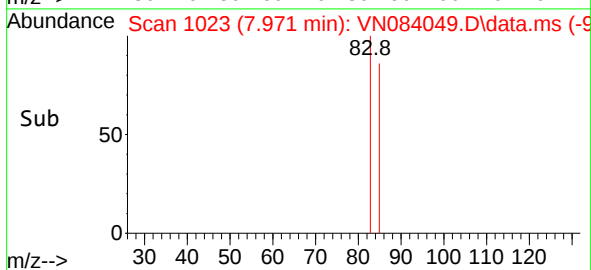
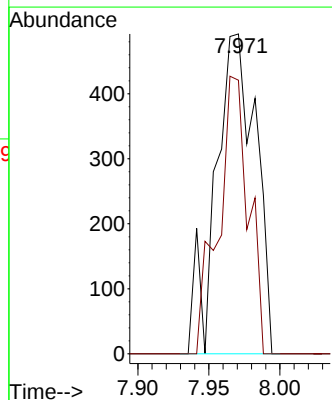
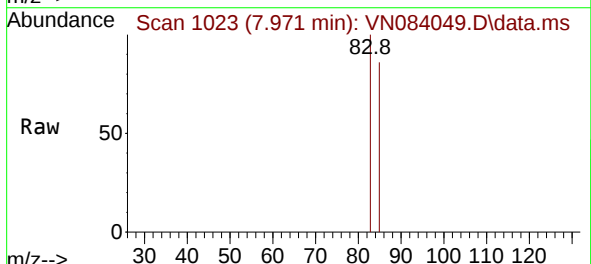
Instrument :  
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 RE126D2-20240912

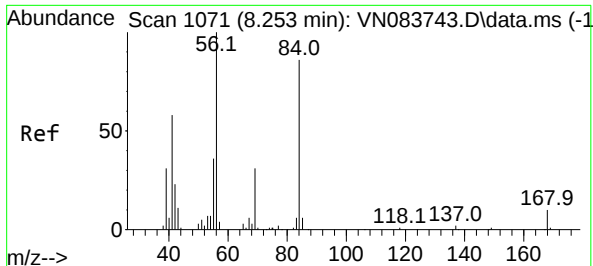
Tgt Ion: 96 Resp: 1181  
 Ion Ratio Lower Upper  
 96 100  
 61 67.6 0.0 306.2  
 98 20.5 0.0 128.6



#30  
 Chloroform  
 Concen: 0.280 ug/l  
 RT: 7.971 min Scan# 1023  
 Delta R.T. 0.012 min  
 Lab File: VN084049.D  
 Acq: 19 Sep 2024 21:18

Tgt Ion: 83 Resp: 963  
 Ion Ratio Lower Upper  
 83 100  
 85 85.6 52.8 79.2#





#31

Cyclohexane

Concen: 1.157 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN084049.D

Acq: 19 Sep 2024 21:18

Instrument :

MSVOA\_N

ClientSampleId :

RE126D2-20240912

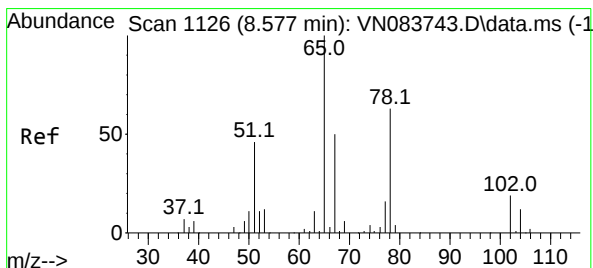
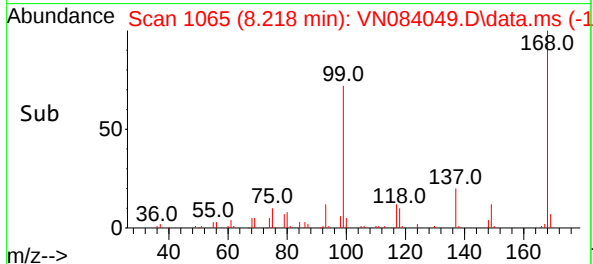
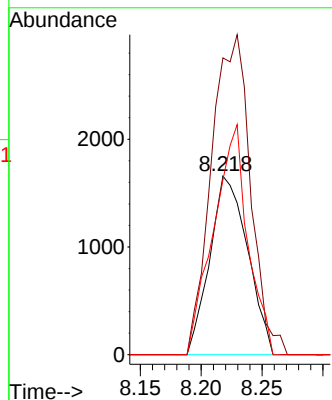
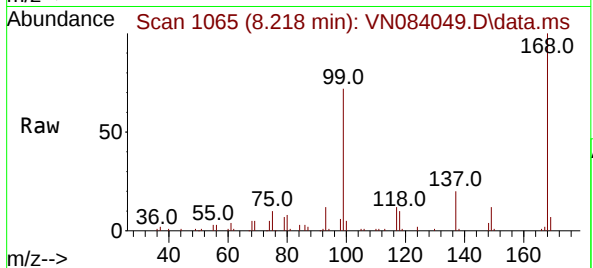
Tgt Ion: 56 Resp: 3575

Ion Ratio Lower Upper

56 100

69 166.2 26.9 40.3#

84 97.8 69.2 103.8



#33

1,2-Dichloroethane-d4

Concen: 53.495 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN084049.D

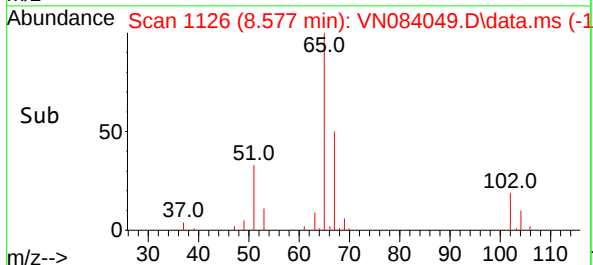
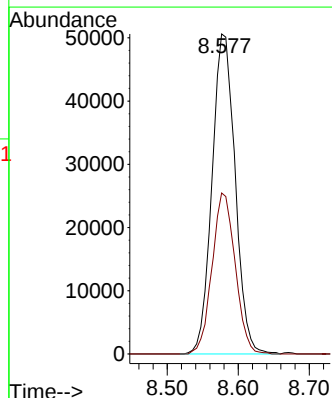
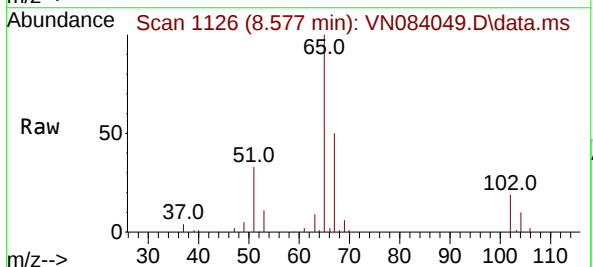
Acq: 19 Sep 2024 21:18

Tgt Ion: 65 Resp: 114320

Ion Ratio Lower Upper

65 100

67 50.3 0.0 100.8

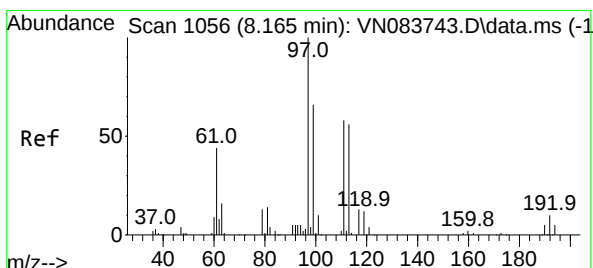
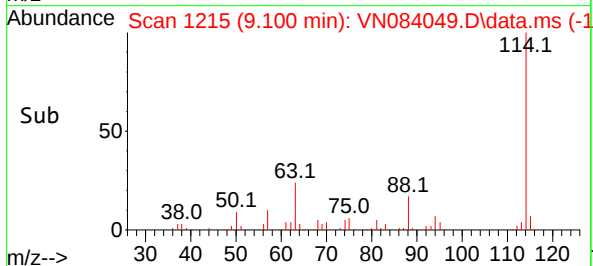
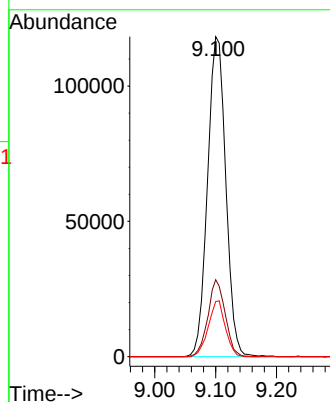
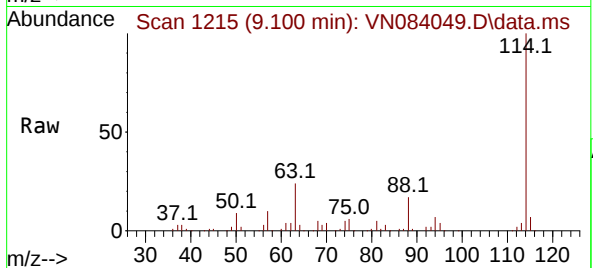




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.100 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN084049.D  
Acq: 19 Sep 2024 21:18

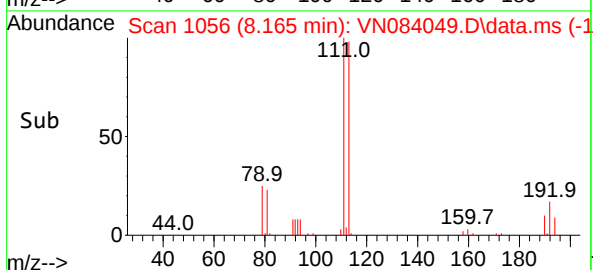
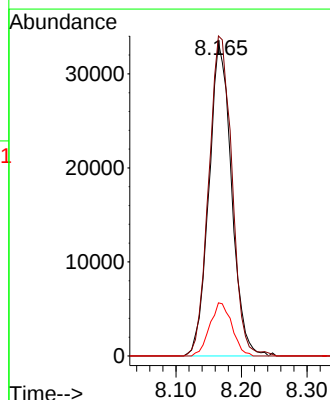
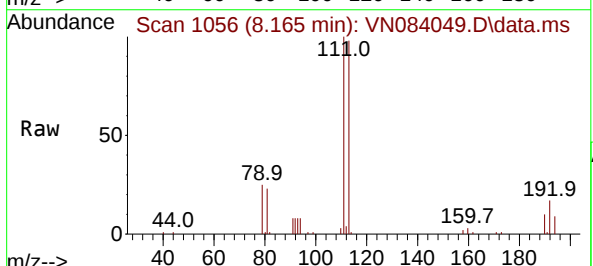
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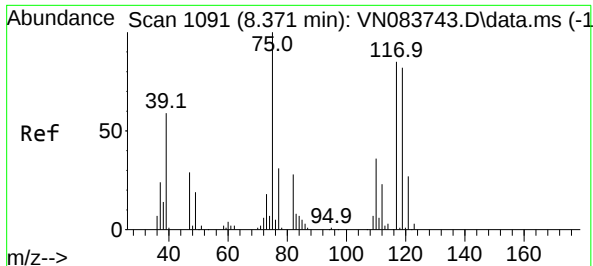
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Ion Ratio Lower Upper  
114 100  
63 24.1 0.0 43.4  
88 17.3 0.0 32.6



#35  
Dibromofluoromethane  
Concen: 50.584 ug/l  
RT: 8.165 min Scan# 1056  
Delta R.T. -0.000 min  
Lab File: VN084049.D  
Acq: 19 Sep 2024 21:18

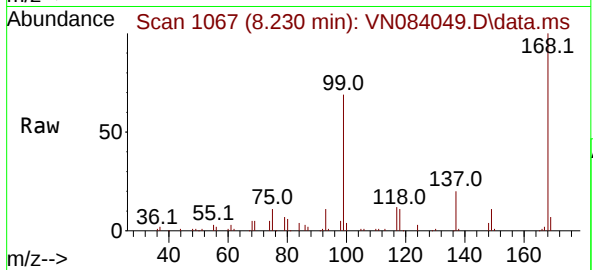
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Ion Ratio Lower Upper  
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111 104.7 82.6 124.0  
192 16.6 14.3 21.5



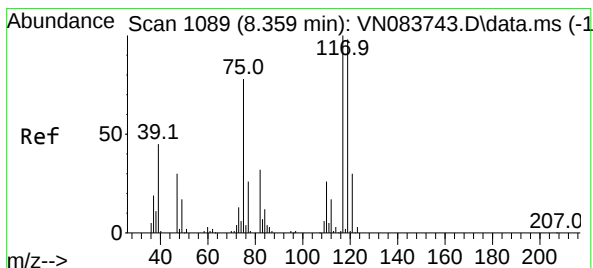
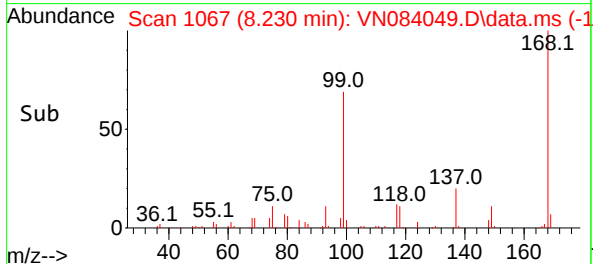
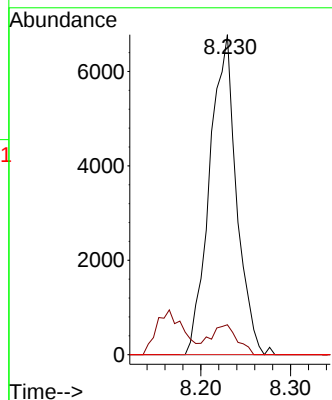


#36  
1,1-Dichloropropene  
Concen: 5.954 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.141 min  
Lab File: VN084049.D  
Acq: 19 Sep 2024 21:18

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE126D2-20240912

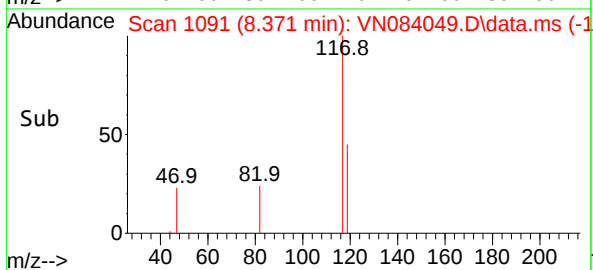
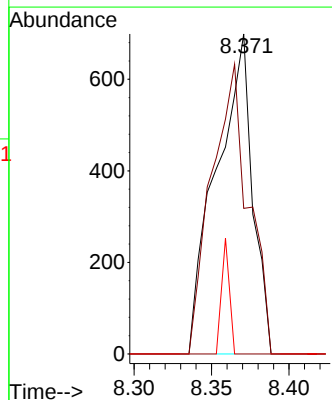
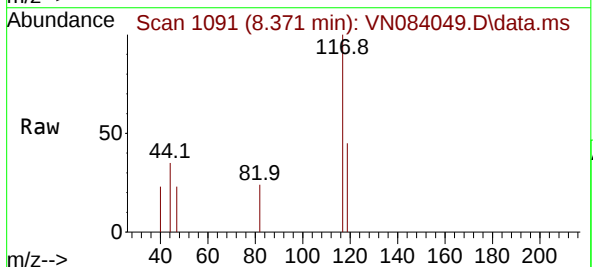


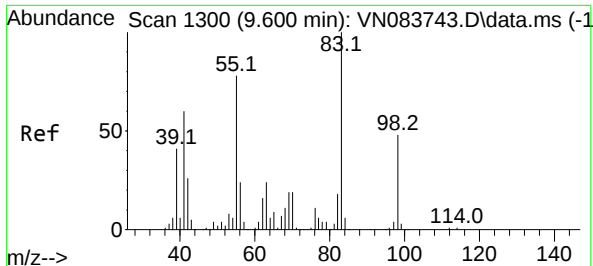
Tgt Ion: 75 Resp: 14133  
Ion Ratio Lower Upper  
75 100  
110 9.1 16.7 50.1#  
77 0.0 25.2 37.8#



#38  
Carbon Tetrachloride  
Concen: 0.418 ug/l  
RT: 8.371 min Scan# 1091  
Delta R.T. 0.012 min  
Lab File: VN084049.D  
Acq: 19 Sep 2024 21:18

Tgt Ion: 117 Resp: 1126  
Ion Ratio Lower Upper  
117 100  
119 45.5 76.1 114.1#  
121 0.0 24.1 36.1#





#39

Methylcyclohexane

Concen: 3.054 ug/l

RT: 9.347 min Scan# 1125

Delta R.T. -0.253 min

Lab File: VN084049.D

Acq: 19 Sep 2024 21:18

Instrument :

MSVOA\_N

ClientSampleId :

RE126D2-20240912

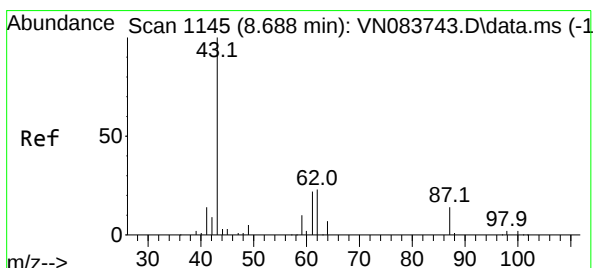
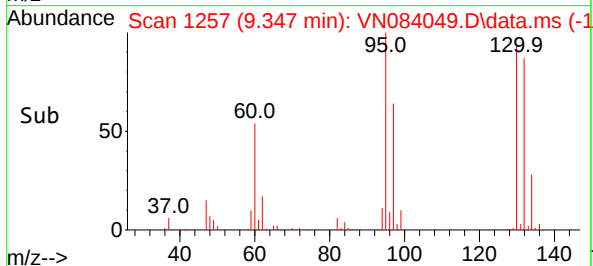
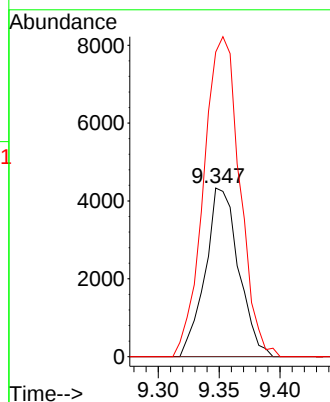
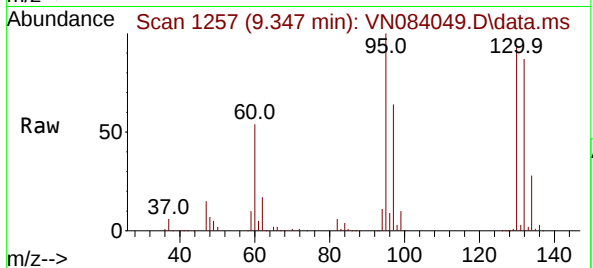
Tgt Ion: 83 Resp: 8252

Ion Ratio Lower Upper

83 100

55 0.0 62.2 93.4#

98 180.7 37.6 56.4#



#43

Isopropyl Acetate

Concen: 0.329 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.018 min

Lab File: VN084049.D

Acq: 19 Sep 2024 21:18

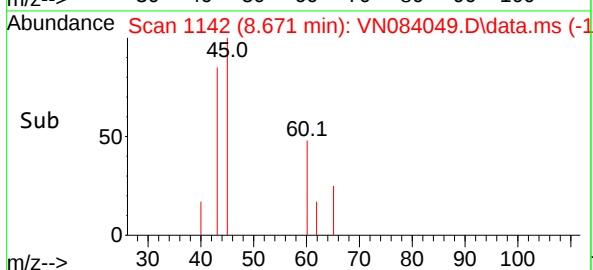
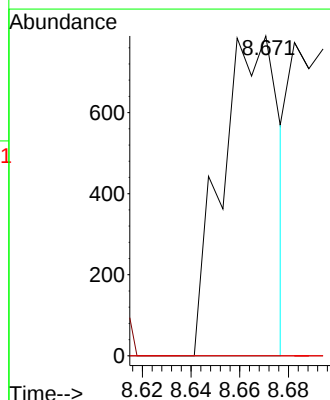
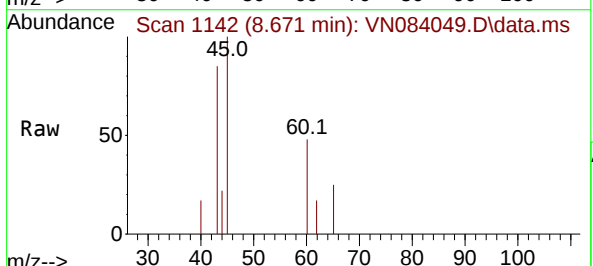
Tgt Ion: 43 Resp: 1283

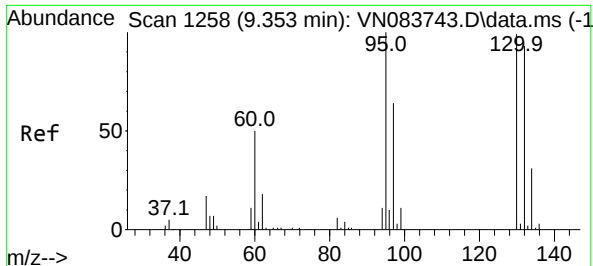
Ion Ratio Lower Upper

43 100

61 0.0 19.4 29.0#

87 0.0 9.8 14.6#

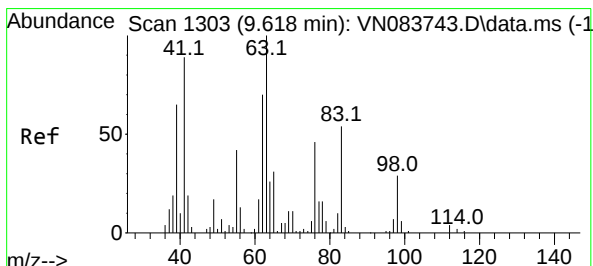
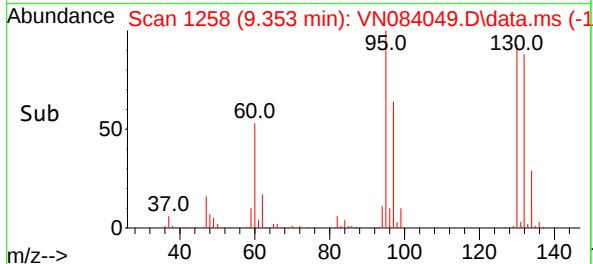
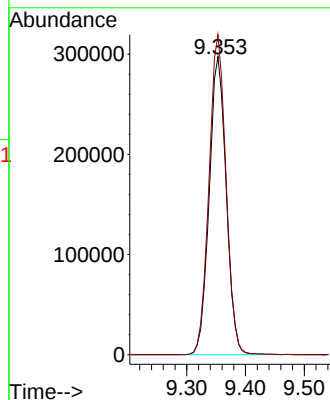
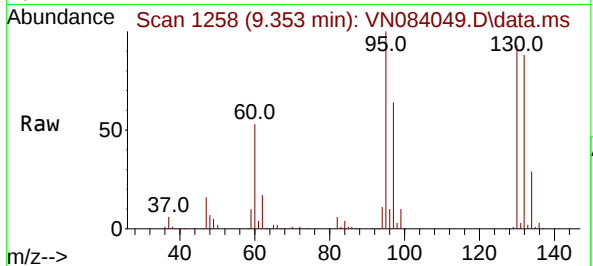




#44  
Trichloroethene  
Concen: 360.718 ug/l  
RT: 9.353 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN084049.D  
Acq: 19 Sep 2024 21:18

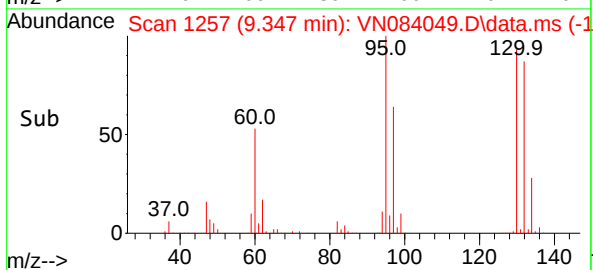
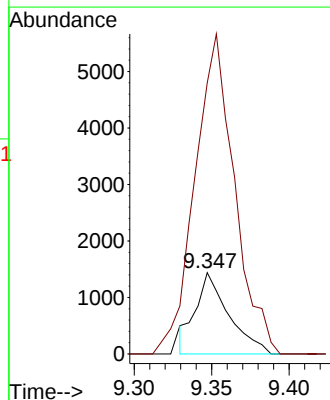
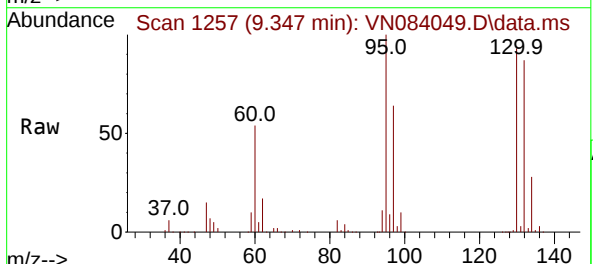
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE126D2-20240912

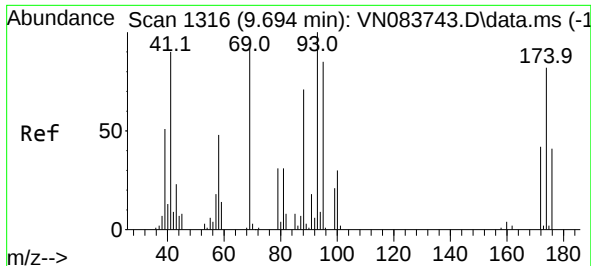
Tgt Ion:130 Resp: 596806  
Ion Ratio Lower Upper  
130 100  
95 107.4 0.0 200.4



#45  
1,2-Dichloropropane  
Concen: 1.236 ug/l  
RT: 9.347 min Scan# 1257  
Delta R.T. -0.271 min  
Lab File: VN084049.D  
Acq: 19 Sep 2024 21:18

Tgt Ion: 63 Resp: 2134  
Ion Ratio Lower Upper  
63 100  
65 333.4 25.9 38.9#





#49

1,4-Dioxane

Concen: 14.898 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN084049.D

Acq: 19 Sep 2024 21:18

Instrument :

MSVOA\_N

ClientSampleId :

RE126D2-20240912

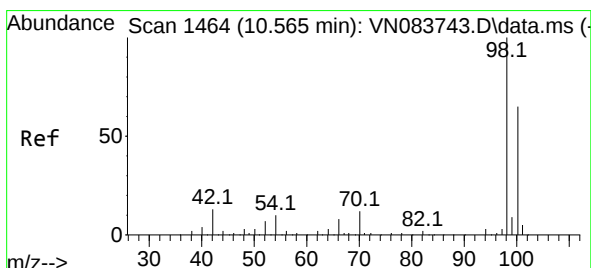
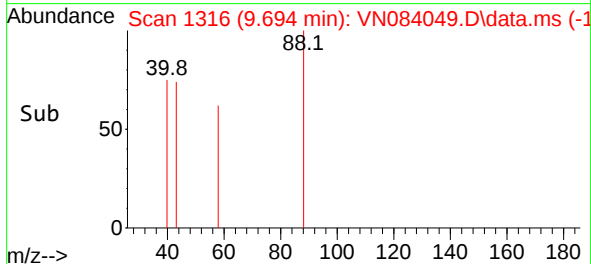
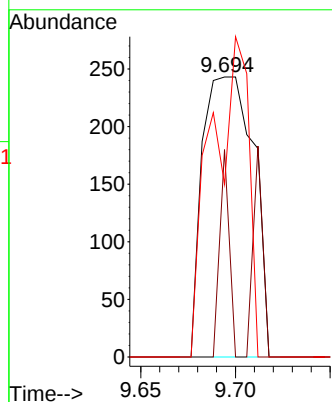
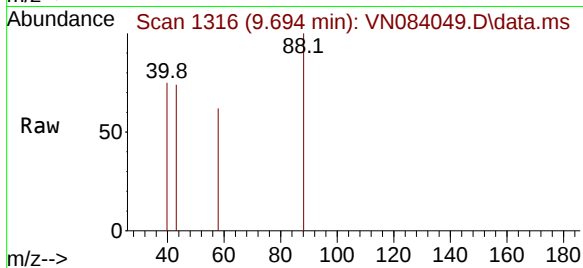
Tgt Ion: 88 Resp: 454

Ion Ratio Lower Upper

88 100

43 14.1 0.0 0.0#

58 82.4 57.1 85.7



#50

Toluene-d8

Concen: 54.461 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084049.D

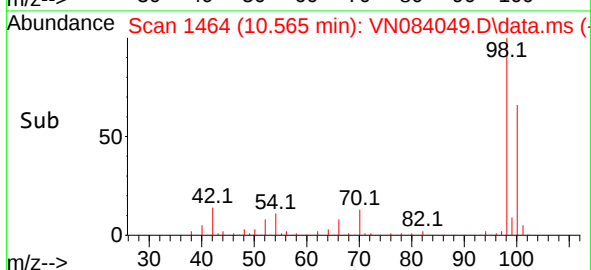
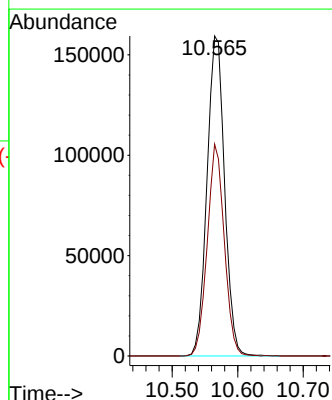
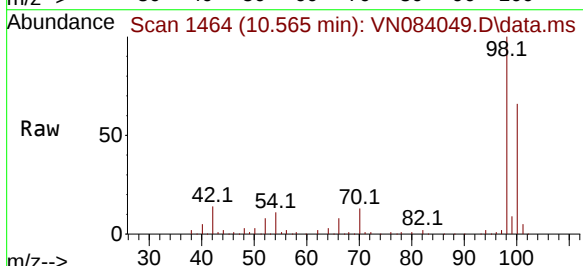
Acq: 19 Sep 2024 21:18

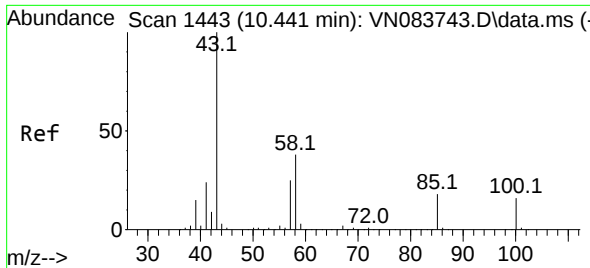
Tgt Ion: 98 Resp: 296923

Ion Ratio Lower Upper

98 100

100 64.2 52.0 78.0

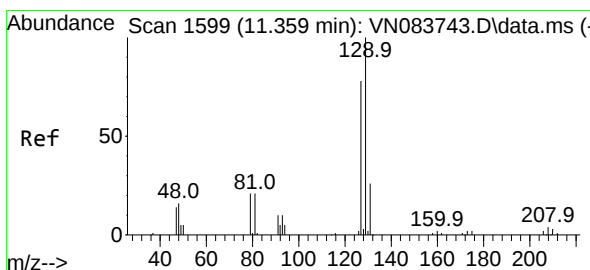
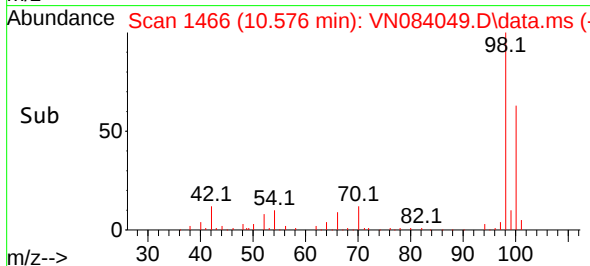
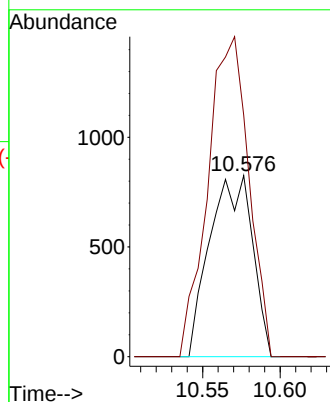
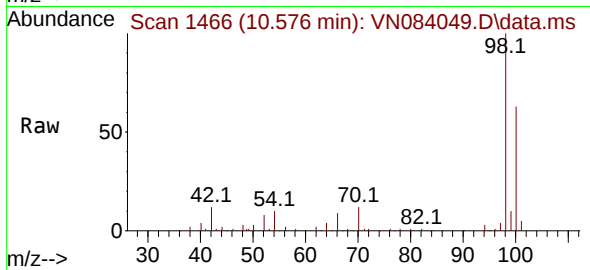




#51  
4-Methyl-2-Pentanone  
Concen: 0.742 ug/l  
RT: 10.576 min Scan# 14  
Delta R.T. 0.135 min  
Lab File: VN084049.D  
Acq: 19 Sep 2024 21:18

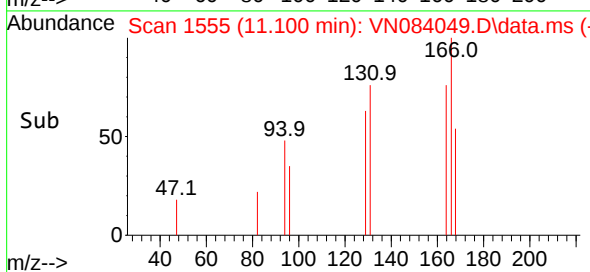
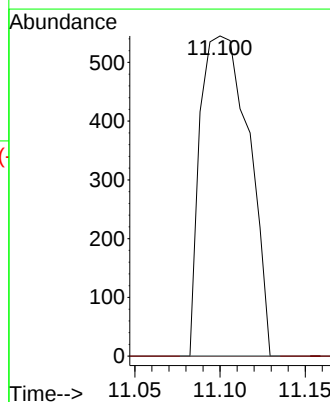
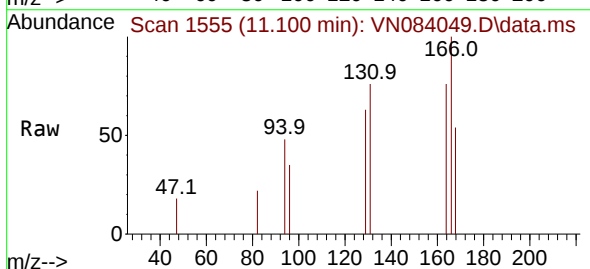
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE126D2-20240912

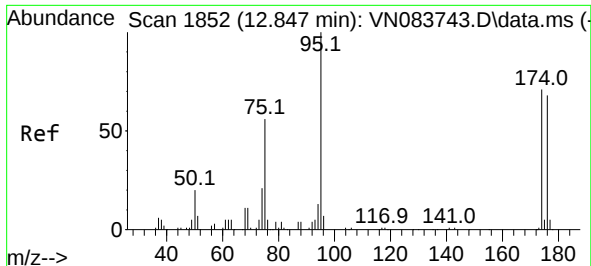
Tgt Ion: 43 Resp: 1577  
Ion Ratio Lower Upper  
43 100  
58 169.8 31.6 47.4#



#60  
Dibromochloromethane  
Concen: 0.590 ug/l  
RT: 11.100 min Scan# 1555  
Delta R.T. -0.259 min  
Lab File: VN084049.D  
Acq: 19 Sep 2024 21:18

Tgt Ion: 129 Resp: 1077  
Ion Ratio Lower Upper  
129 100  
127 0.0 39.0 116.9#

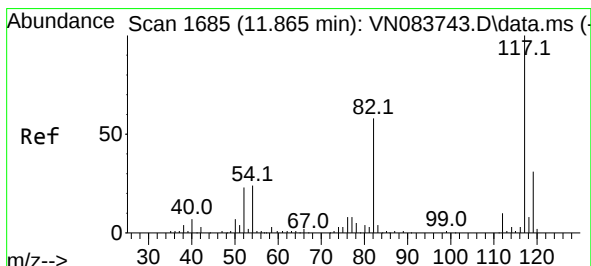
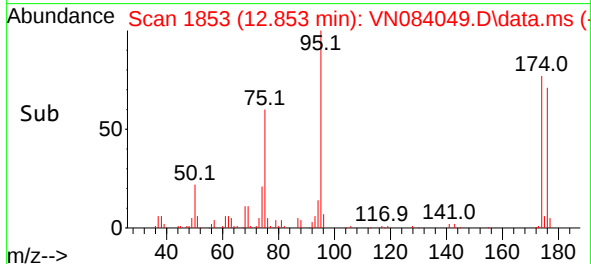
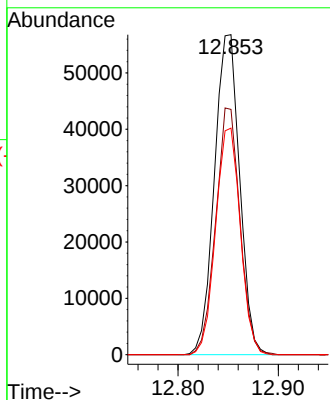
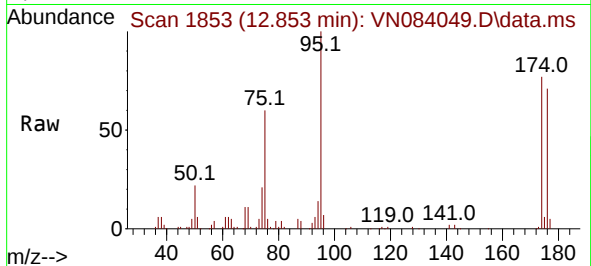




#62  
4-Bromofluorobenzene  
Concen: 44.151 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.006 min  
Lab File: VN084049.D  
Acq: 19 Sep 2024 21:18

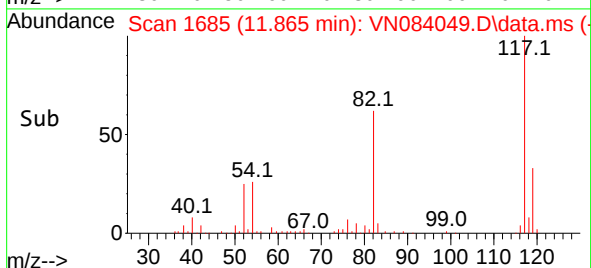
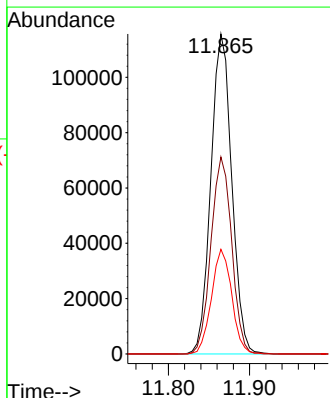
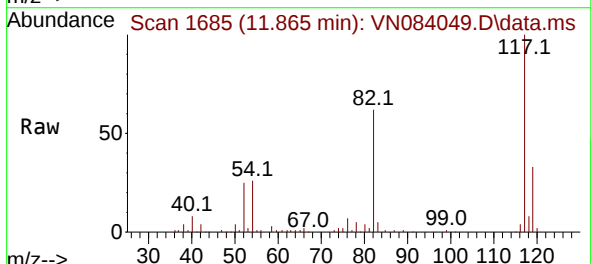
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE126D2-20240912

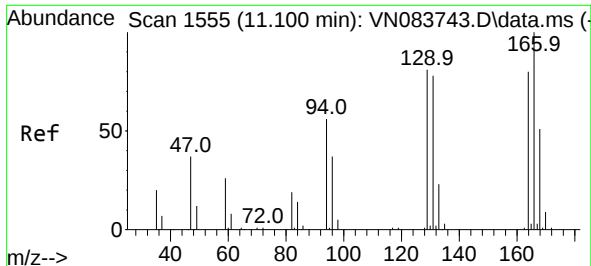
Tgt Ion: 95 Resp: 99311  
Ion Ratio Lower Upper  
95 100  
174 74.2 0.0 139.8  
176 69.3 0.0 131.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VN084049.D  
Acq: 19 Sep 2024 21:18

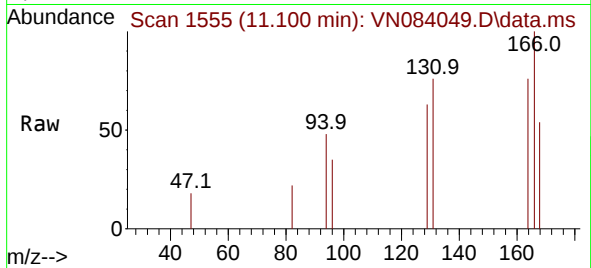
Tgt Ion: 117 Resp: 206804  
Ion Ratio Lower Upper  
117 100  
82 61.5 47.4 71.0  
119 32.7 26.3 39.5



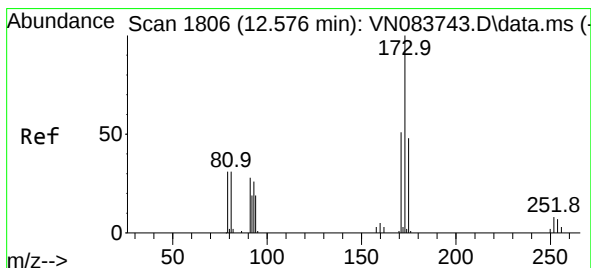
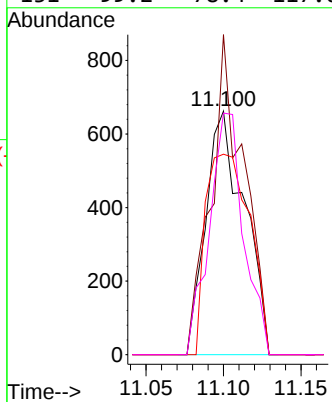
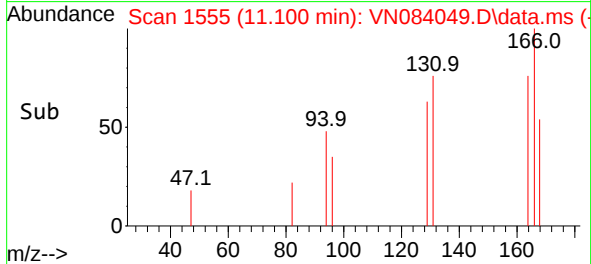


#64  
Tetrachloroethene  
Concen: 0.832 ug/l  
RT: 11.100 min Scan# 1144  
Delta R.T. -0.000 min  
Lab File: VN084049.D  
Acq: 19 Sep 2024 21:18

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE126D2-20240912

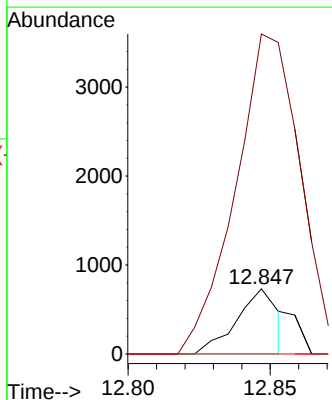
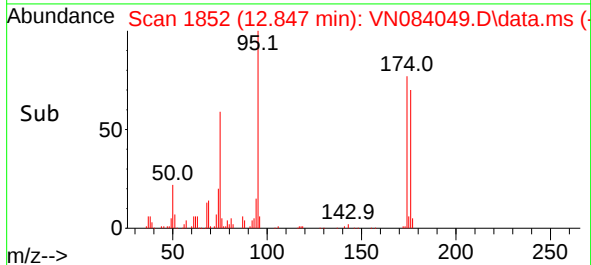
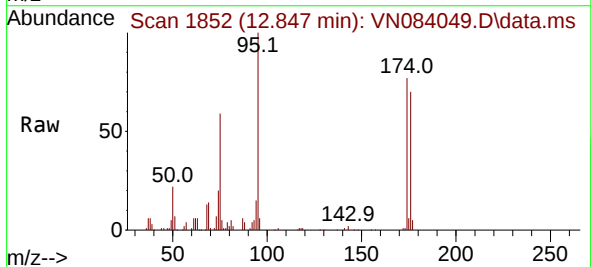


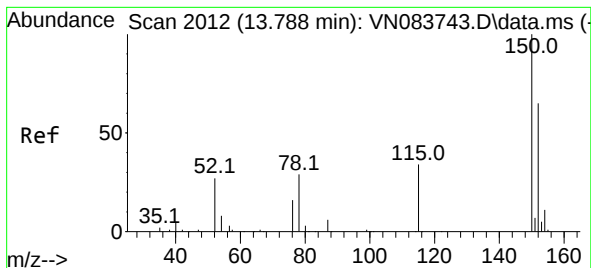
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 131.4 | 103.7 | 155.5 |
| 129     | 82.3  | 79.9  | 119.9 |
| 131     | 99.2  | 78.4  | 117.6 |



#71  
Bromoform  
Concen: 0.692 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.271 min  
Lab File: VN084049.D  
Acq: 19 Sep 2024 21:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 568.9 | 24.1  | 72.2# |
| 254     | 0.0   | 0.0   | 0.0   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.006 min

Lab File: VN084049.D

Acq: 19 Sep 2024 21:18

Instrument :

MSVOA\_N

ClientSampleId :

RE126D2-20240912

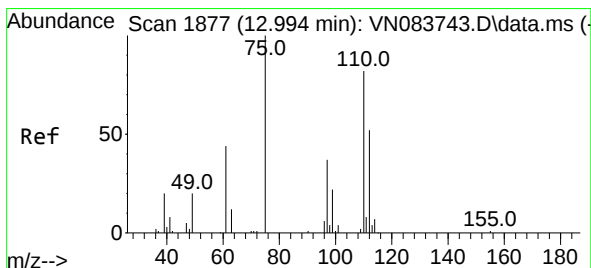
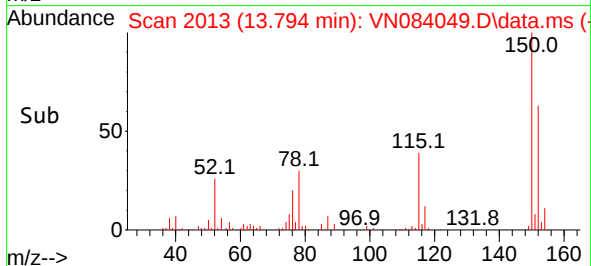
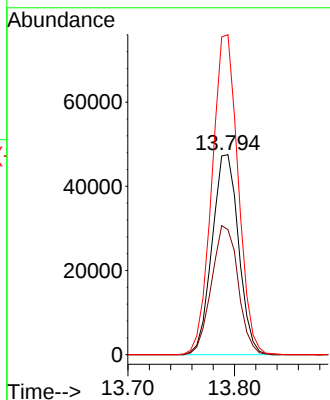
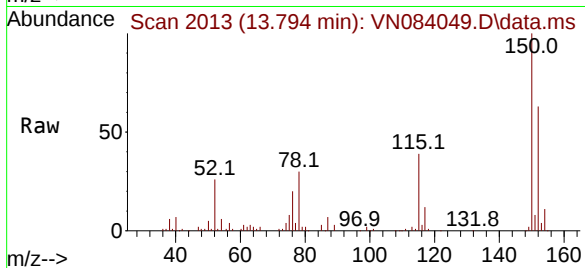
Tgt Ion:152 Resp: 81942

Ion Ratio Lower Upper

152 100

115 65.0 32.2 96.6

150 158.6 0.0 348.6



#76

1,2,3-Trichloropropane

Concen: 35.264 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN084049.D

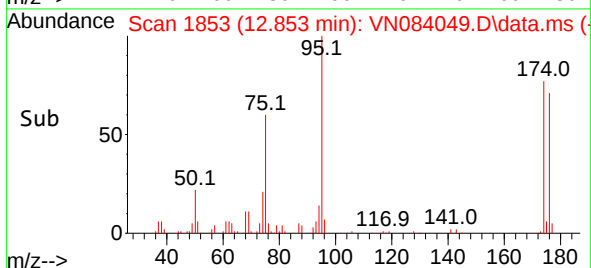
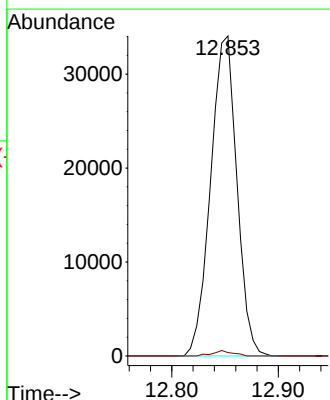
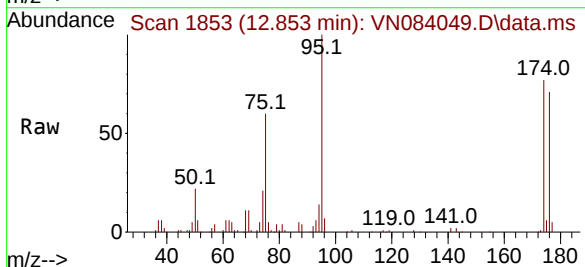
Acq: 19 Sep 2024 21:18

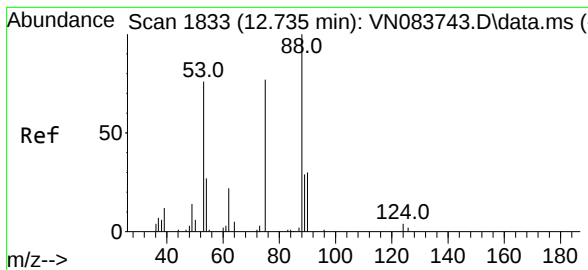
Tgt Ion: 75 Resp: 58307

Ion Ratio Lower Upper

75 100

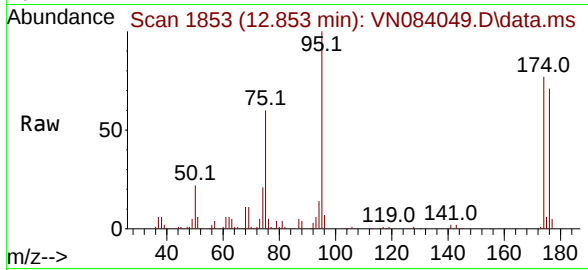
77 1.3 95.2 285.6#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 92.360 ug/l  
 RT: 12.853 min Scan# 11  
 Delta R.T. 0.118 min  
 Lab File: VN084049.D  
 Acq: 19 Sep 2024 21:18

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE126D2-20240912



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 58307  |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 53       | 0.0   | 81.2  | 121.8# |
| 89       | 0.0   | 35.7  | 53.5#  |

