

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN092024\  
 Data File : VN084067.D  
 Acq On : 20 Sep 2024 13:56  
 Operator : JC\MD  
 Sample : P4093-02 20X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 OUTFALL-DSN-002

Quant Time: Sep 20 23:26:03 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090624W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 06 23:42:47 2024  
 Response via : Initial Calibration

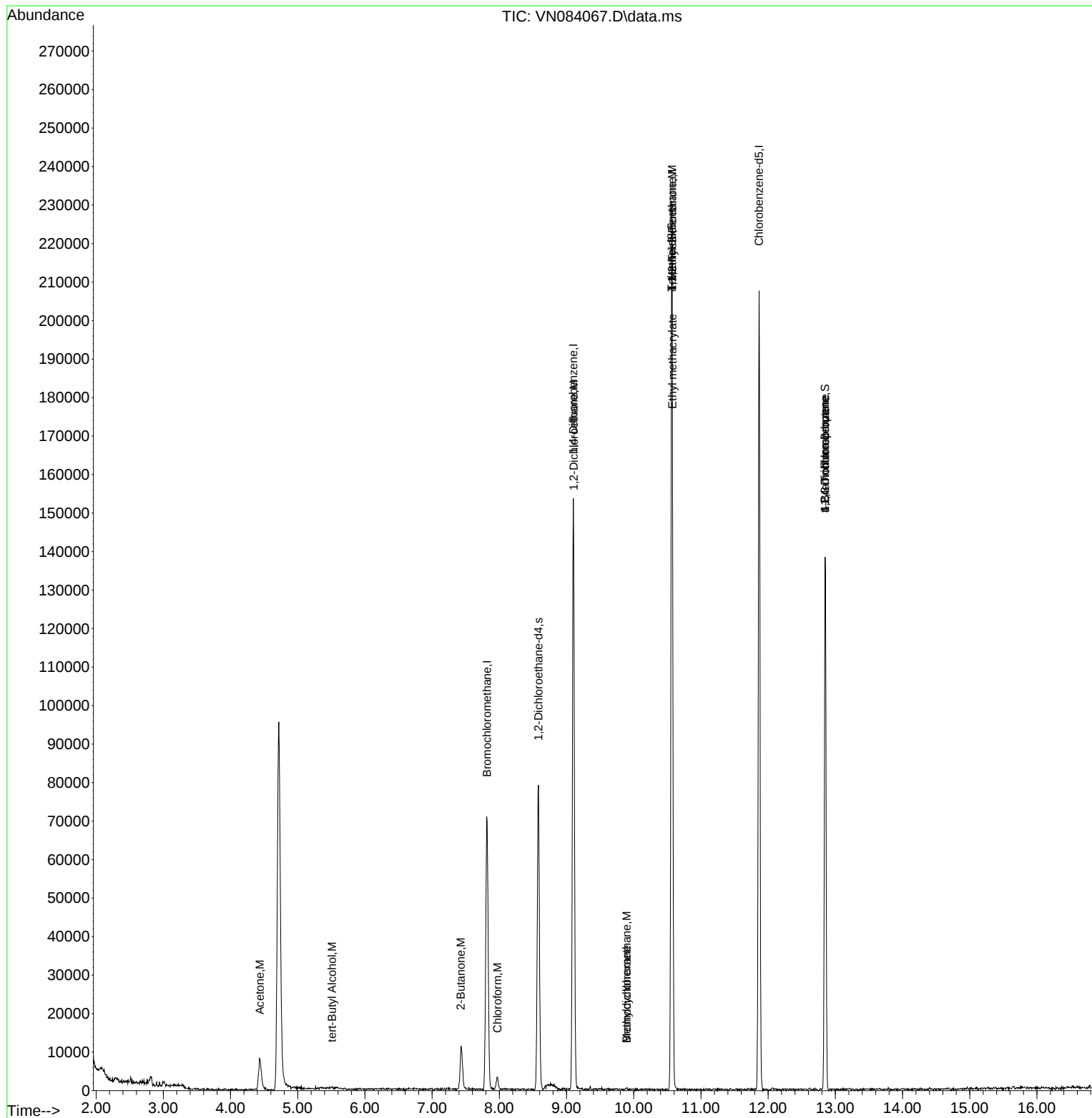
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 7.818  | 128   | 24206    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 9.100  | 114   | 123476   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.865 | 117   | 110994   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 8.583  | 65    | 66364    | 29.994   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 99.967%  |
| 60) 4-Bromofluorobenzene    | 12.847 | 95    | 47799    | 24.987   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 83.300%  |
| 63) Toluene-d8              | 10.565 | 98    | 155881   | 30.330   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 101.100% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 15) Acetone                 | 4.436  | 58    | 4521     | 18.562   | ug/l   | 99       |
| 23) tert-Butyl Alcohol      | 5.512  | 59    | 209      | 0.776    | ug/l # | 100      |
| 25) Chloroform              | 7.971  | 83    | 3155     | 0.979    | ug/l # | 78       |
| 30) 2-Butanone              | 7.424  | 43    | 265      | 0.287    | ug/l # | 52       |
| 36) 1,2-Dichloroethane      | 9.106  | 62    | 5265     | 2.383    | ug/l # | 72       |
| 38) Methylcyclohexane       | 9.894  | 83    | 472      | 0.201    | ug/l # | 19       |
| 41) Bromodichloromethane    | 9.894  | 83    | 472      | 0.215    | ug/l # | 87       |
| 50) 1,1,2-Trichloroethane   | 10.571 | 97    | 5225     | 3.971    | ug/l # | 1        |
| 51) Ethyl methacrylate      | 10.577 | 69    | 646      | 0.287    | ug/l # | 70       |
| 58) 4-Methyl-2-Pentanone    | 10.571 | 43    | 680      | 0.386    | ug/l # | 1        |
| 72) 1,2,3-Trichloropropane  | 12.847 | 75    | 27712    | 16.975   | ug/l   | 1        |
| 77) t-1,4-Dichloro-2-butene | 12.847 | 75    | 27712    | 40.160   | ug/l # | 12       |
| -----                       |        |       |          |          |        |          |

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

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Sep 06 23:42:47 2024  
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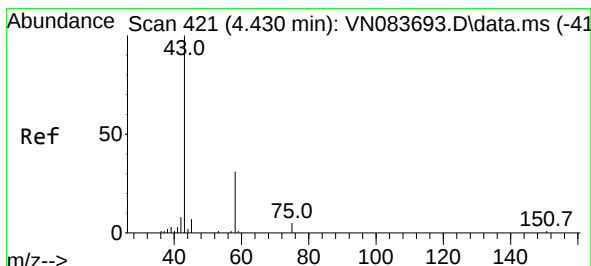
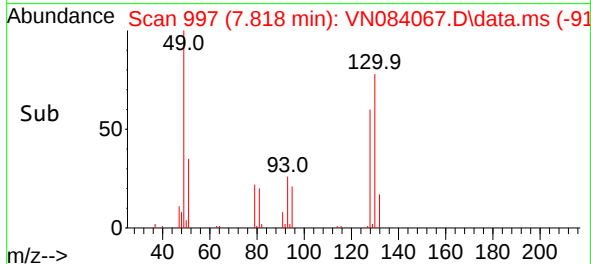
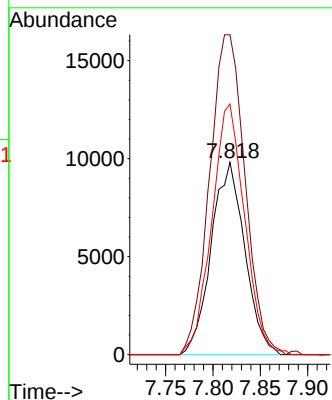
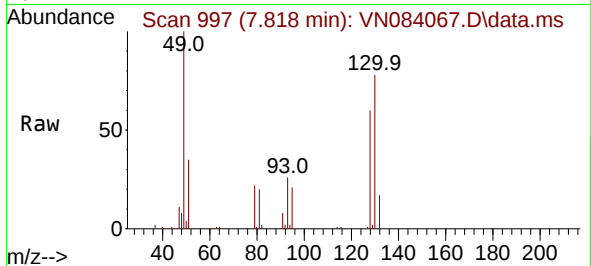




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.818 min Scan# 997  
Delta R.T. 0.006 min  
Lab File: VN084067.D  
Acq: 20 Sep 2024 13:56

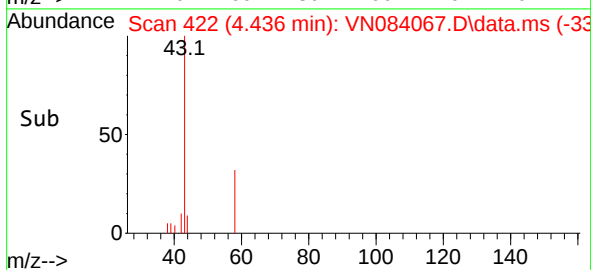
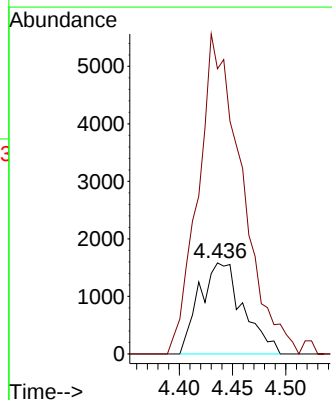
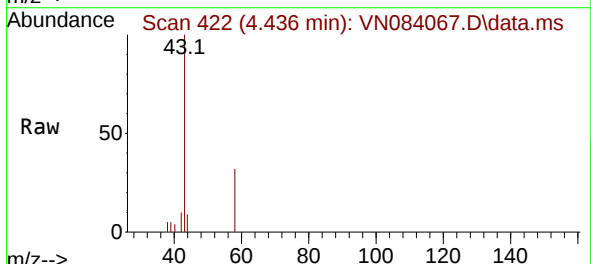
Instrument :  
MSVOA\_N  
ClientSampleId :  
OUTFALL-DSN-002

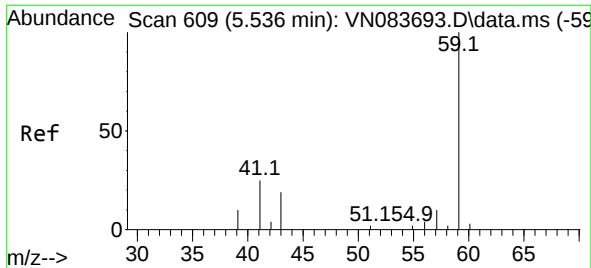
Tgt Ion:128 Resp: 24206  
Ion Ratio Lower Upper  
128 100  
49 175.4 0.0 403.7  
130 127.6 0.0 323.3



#15  
Acetone  
Concen: 18.562 ug/l  
RT: 4.436 min Scan# 422  
Delta R.T. 0.006 min  
Lab File: VN084067.D  
Acq: 20 Sep 2024 13:56

Tgt Ion: 58 Resp: 4521  
Ion Ratio Lower Upper  
58 100  
43 280.3 223.1 334.7

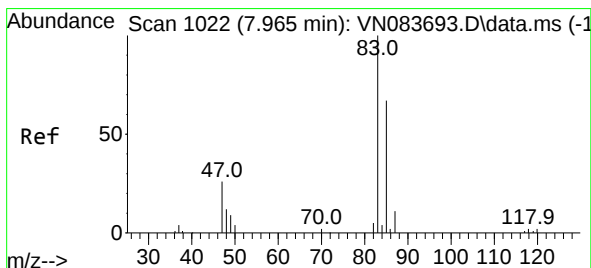
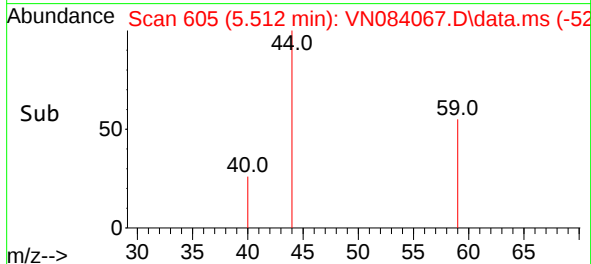
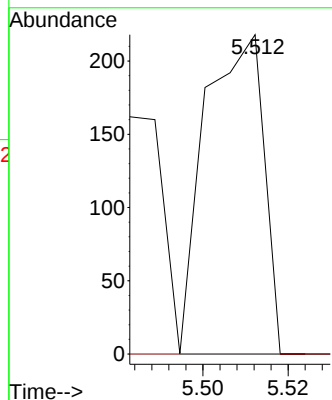
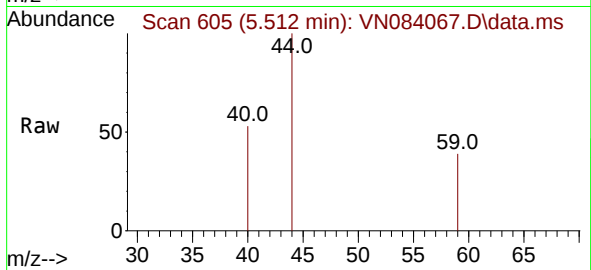




#23  
tert-Butyl Alcohol  
Concen: 0.776 ug/l  
RT: 5.512 min Scan# 609  
Delta R.T. -0.023 min  
Lab File: VN084067.D  
Acq: 20 Sep 2024 13:56

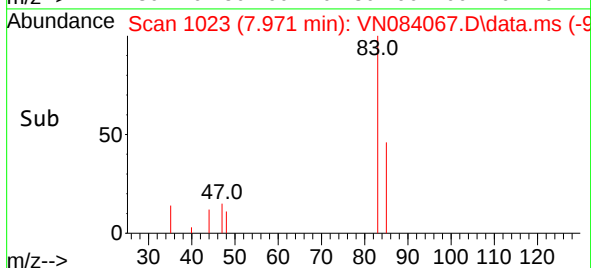
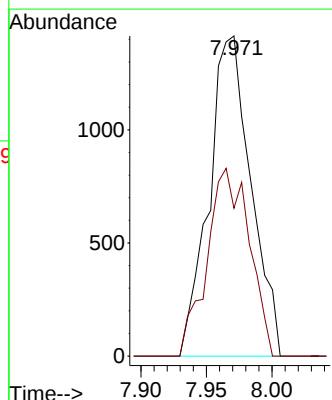
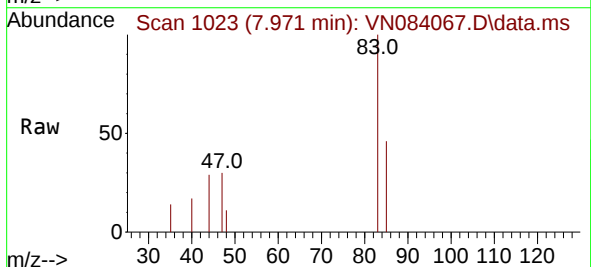
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OUTFALL-DSN-002

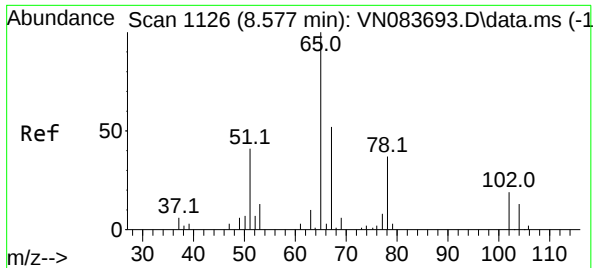
Tgt Ion: 59 Resp: 209  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0



#25  
Chloroform  
Concen: 0.979 ug/l  
RT: 7.971 min Scan# 1023  
Delta R.T. 0.006 min  
Lab File: VN084067.D  
Acq: 20 Sep 2024 13:56

Tgt Ion: 83 Resp: 3155  
Ion Ratio Lower Upper  
83 100  
85 46.1 50.9 76.3#





#27

1,2-Dichloroethane-d4

Concen: 29.994 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN084067.D

Acq: 20 Sep 2024 13:56

Instrument :

MSVOA\_N

ClientSampleId :

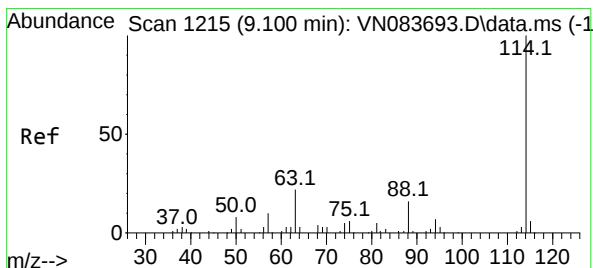
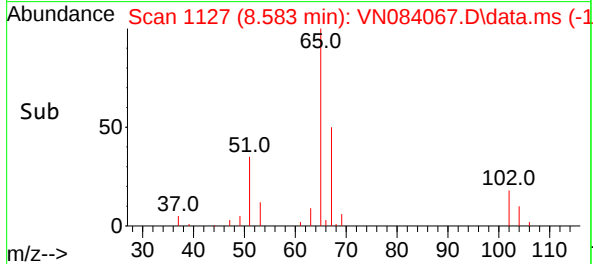
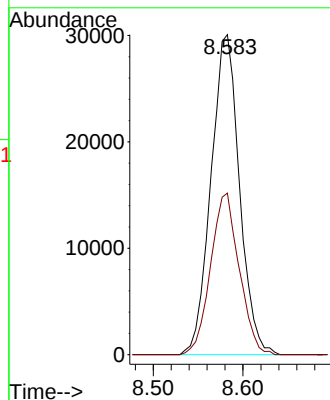
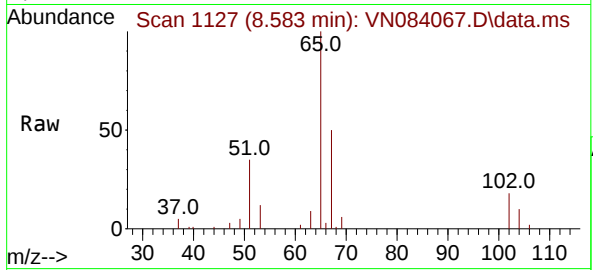
OUTFALL-DSN-002

Tgt Ion: 65 Resp: 66364

Ion Ratio Lower Upper

65 100

67 50.6 43.2 64.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN084067.D

Acq: 20 Sep 2024 13:56

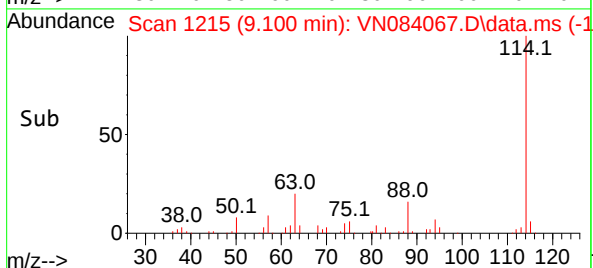
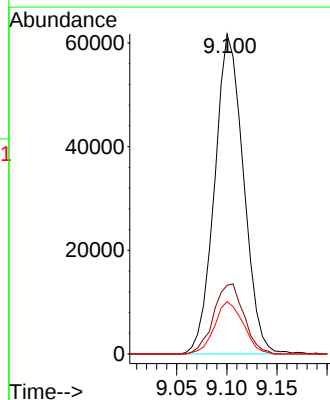
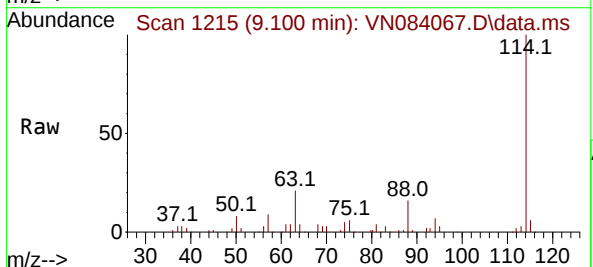
Tgt Ion: 114 Resp: 123476

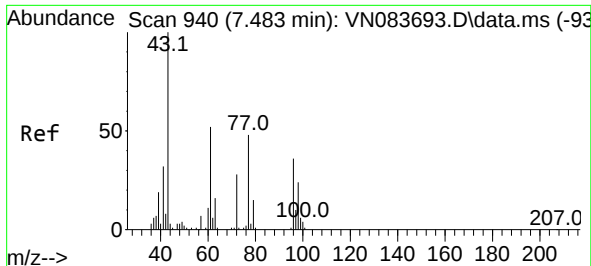
Ion Ratio Lower Upper

114 100

63 22.9 15.9 23.9

88 16.3 12.7 19.1

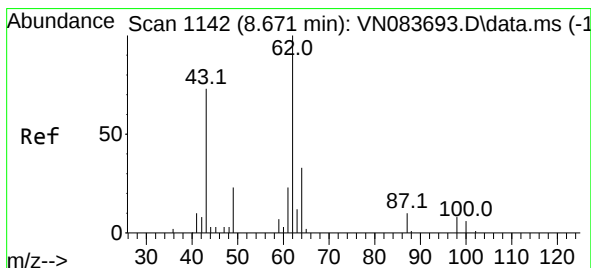
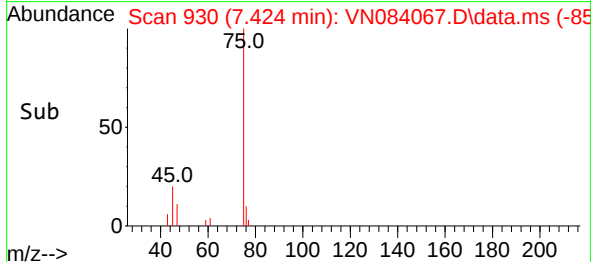
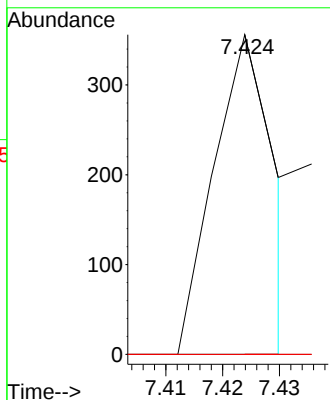
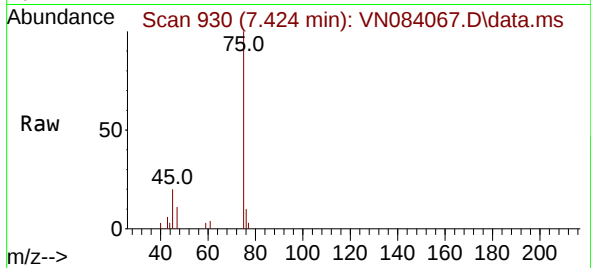




#30  
2-Butanone  
Concen: 0.287 ug/l  
RT: 7.424 min Scan# 91  
Delta R.T. -0.059 min  
Lab File: VN084067.D  
Acq: 20 Sep 2024 13:56

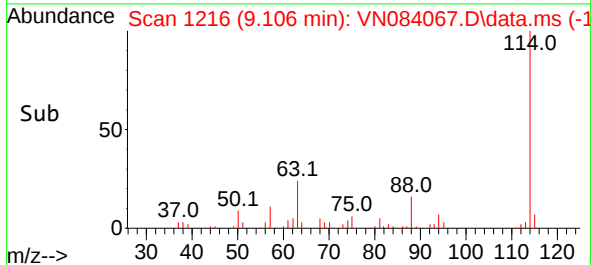
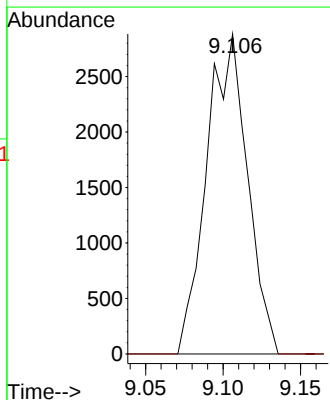
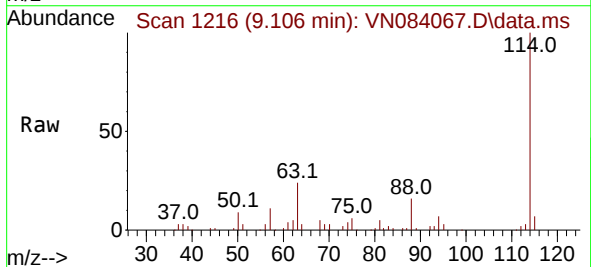
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OUTFALL-DSN-002

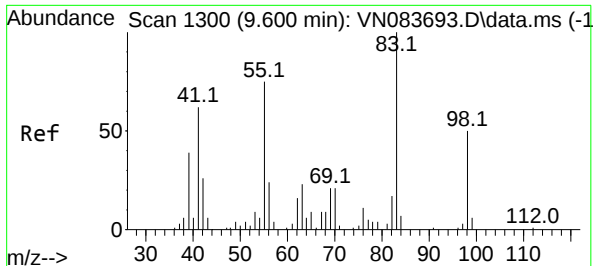
Tgt Ion: 43 Resp: 265  
Ion Ratio Lower Upper  
43 100  
57 0.0 6.7 10.1#  
72 0.0 24.0 36.0#



#36  
1,2-Dichloroethane  
Concen: 2.383 ug/l  
RT: 9.106 min Scan# 1216  
Delta R.T. 0.435 min  
Lab File: VN084067.D  
Acq: 20 Sep 2024 13:56

Tgt Ion: 62 Resp: 5265  
Ion Ratio Lower Upper  
62 100  
98 0.0 8.2 12.4#





#38

Methylcyclohexane

Concen: 0.201 ug/l

RT: 9.894 min Scan# 1350

Delta R.T. 0.294 min

Lab File: VN084067.D

Acq: 20 Sep 2024 13:56

Instrument :

MSVOA\_N

ClientSampleId :

OUTFALL-DSN-002

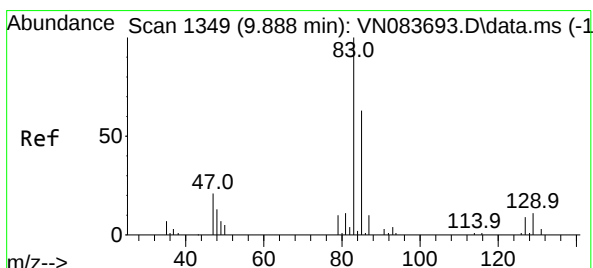
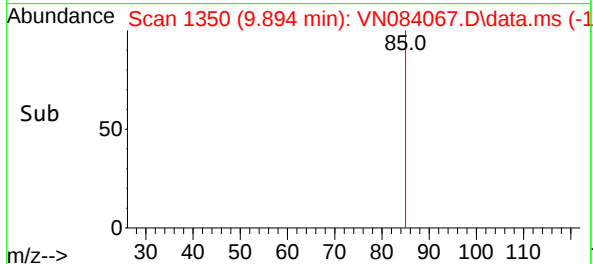
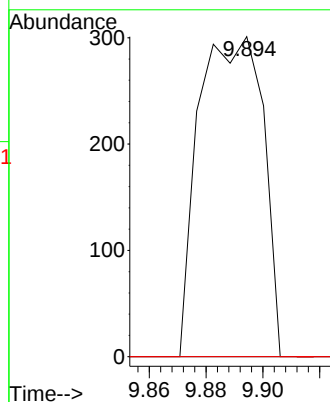
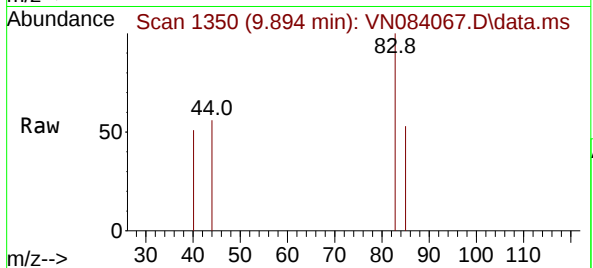
Tgt Ion: 83 Resp: 472

Ion Ratio Lower Upper

83 100

55 0.0 36.6 109.9#

98 0.0 23.8 71.5#



#41

Bromodichloromethane

Concen: 0.215 ug/l

RT: 9.894 min Scan# 1350

Delta R.T. 0.006 min

Lab File: VN084067.D

Acq: 20 Sep 2024 13:56

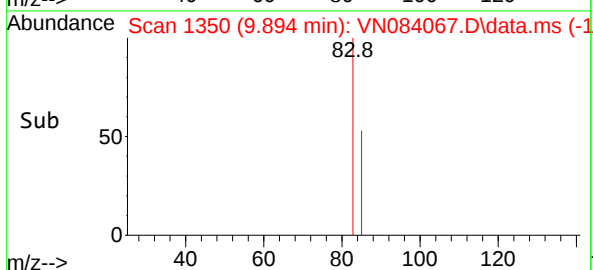
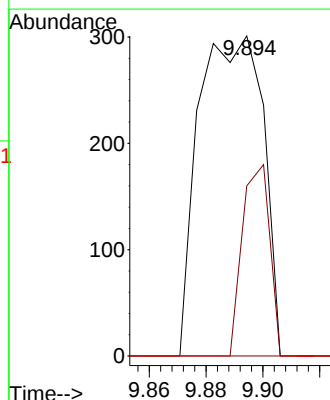
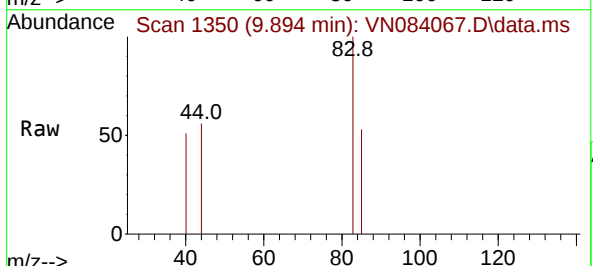
Tgt Ion: 83 Resp: 472

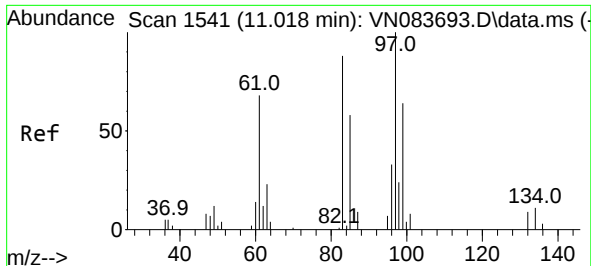
Ion Ratio Lower Upper

83 100

85 53.2 49.4 74.2

127 0.0 7.3 10.9#

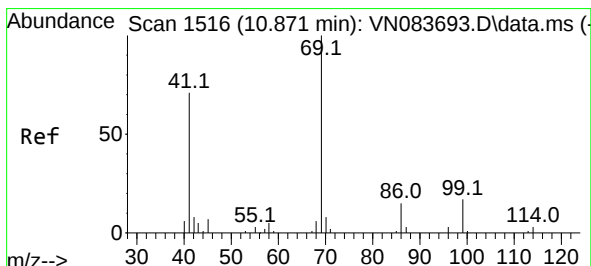
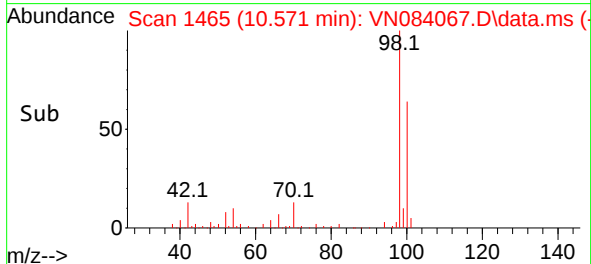
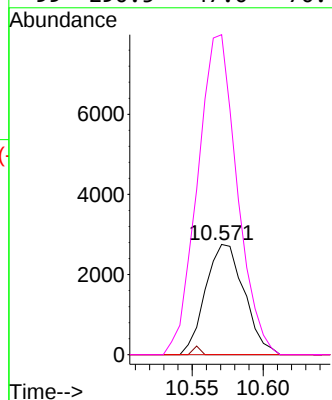
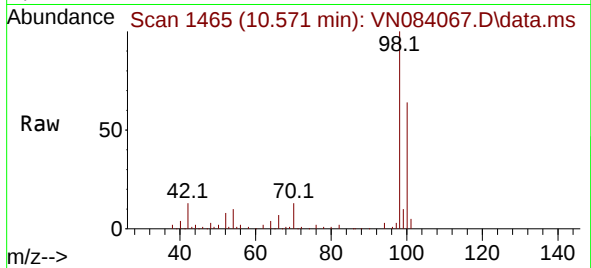




#50  
1,1,2-Trichloroethane  
Concen: 3.971 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. -0.447 min  
Lab File: VN084067.D  
Acq: 20 Sep 2024 13:56

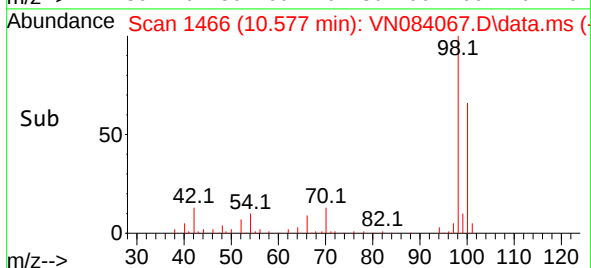
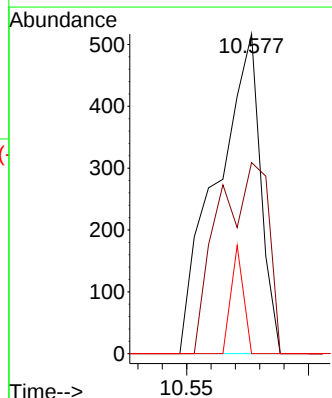
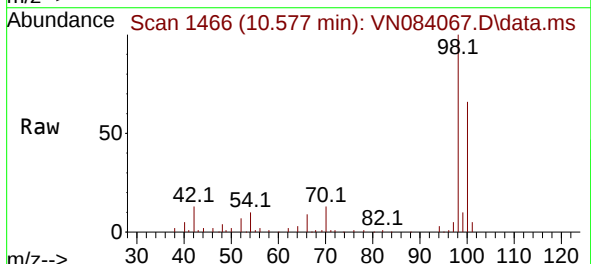
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OUTFALL-DSN-002

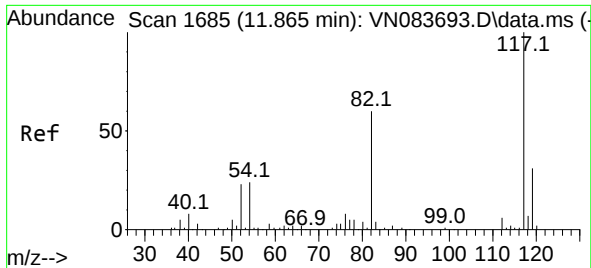
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 5225  |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 83 0.0      | 68.1 102.1# |
| 85 0.0      | 41.8 62.6#  |
| 99 290.5    | 47.0 70.4#  |



#51  
Ethyl methacrylate  
Concen: 0.287 ug/l  
RT: 10.577 min Scan# 1466  
Delta R.T. -0.294 min  
Lab File: VN084067.D  
Acq: 20 Sep 2024 13:56

|             |             |
|-------------|-------------|
| Tgt Ion: 69 | Resp: 646   |
| Ion Ratio   | Lower Upper |
| 69 100      |             |
| 41 59.8     | 25.5 76.5   |
| 39 0.0      | 16.0 47.9#  |

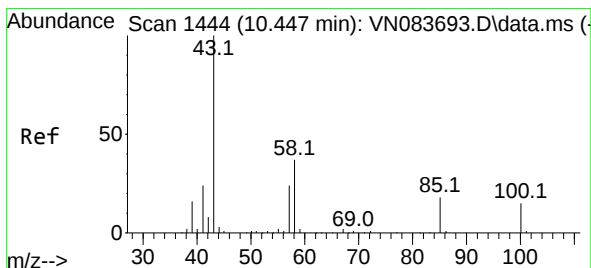
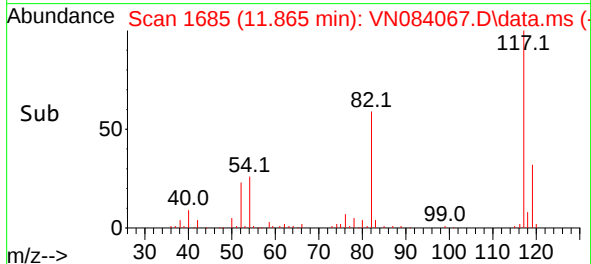
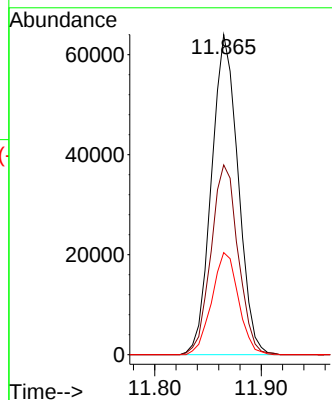
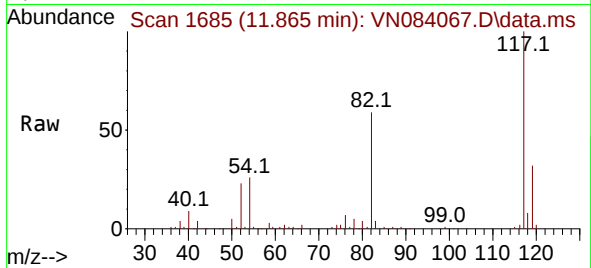




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN084067.D  
Acq: 20 Sep 2024 13:56

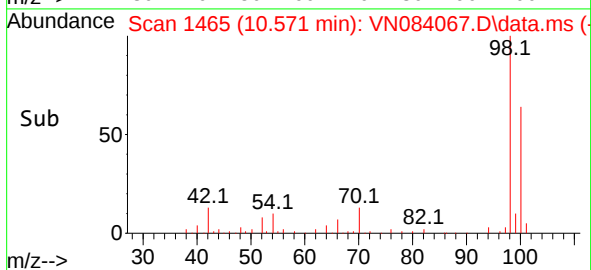
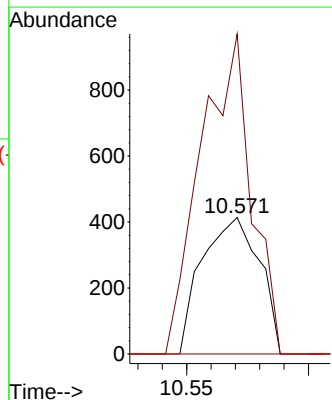
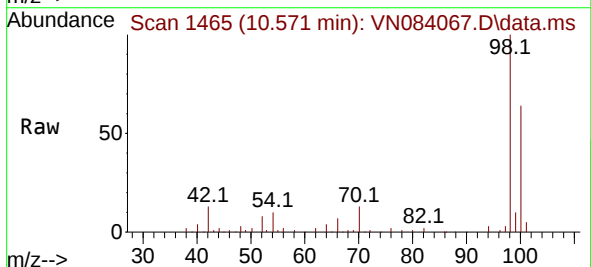
Instrument :  
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OUTFALL-DSN-002

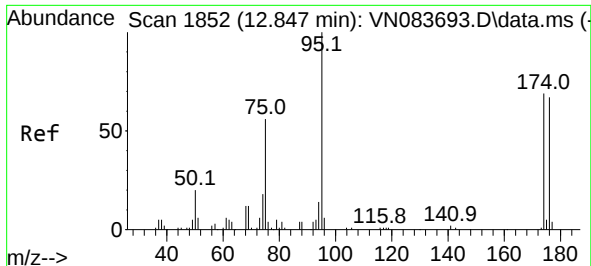
Tgt Ion:117 Resp: 110994  
Ion Ratio Lower Upper  
117 100  
82 60.4 46.6 69.8  
119 32.1 25.4 38.2



#58  
4-Methyl-2-Pentanone  
Concen: 0.386 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.124 min  
Lab File: VN084067.D  
Acq: 20 Sep 2024 13:56

Tgt Ion: 43 Resp: 680  
Ion Ratio Lower Upper  
43 100  
58 205.6 36.5 54.7#  
85 0.0 19.5 29.3#

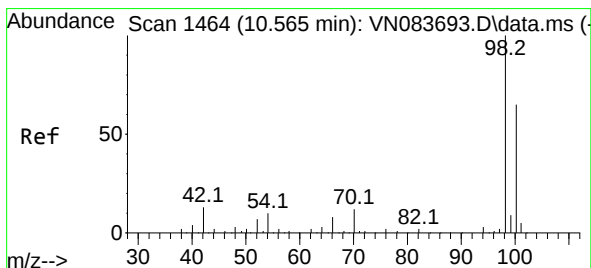
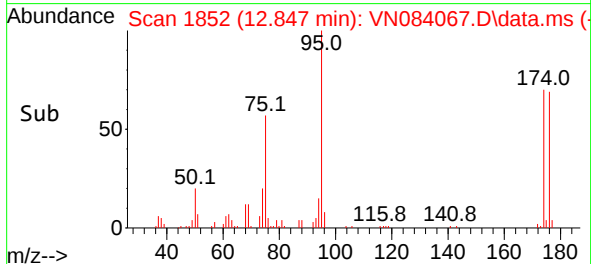
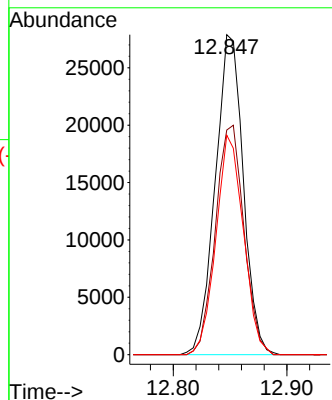
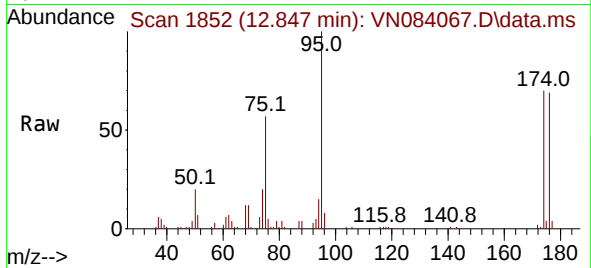




#60  
4-Bromofluorobenzene  
Concen: 24.987 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN084067.D  
Acq: 20 Sep 2024 13:56

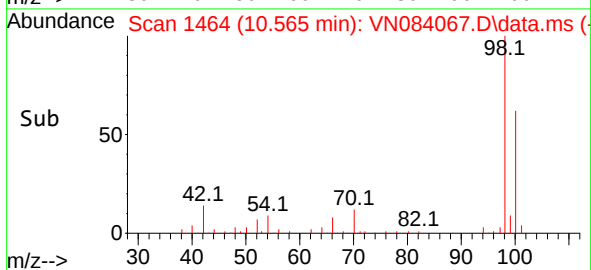
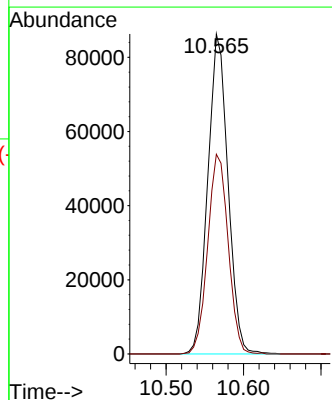
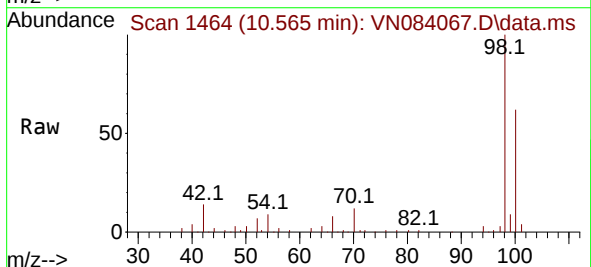
Instrument :  
MSVOA\_N  
ClientSampleId :  
OUTFALL-DSN-002

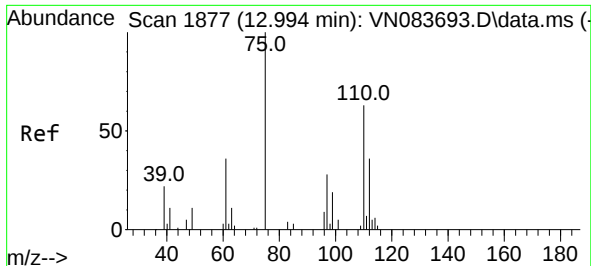
Tgt Ion: 95 Resp: 47799  
Ion Ratio Lower Upper  
95 100  
174 73.1 60.5 90.7  
176 67.3 57.8 86.6



#63  
Toluene-d8  
Concen: 30.330 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VN084067.D  
Acq: 20 Sep 2024 13:56

Tgt Ion: 98 Resp: 155881  
Ion Ratio Lower Upper  
98 100  
100 63.4 52.7 79.1

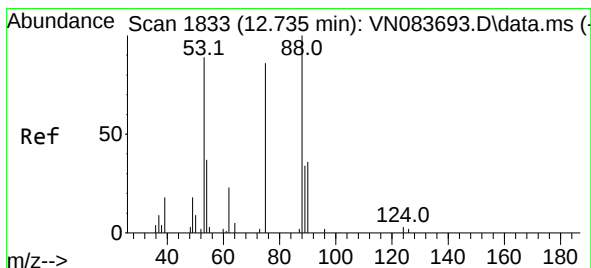
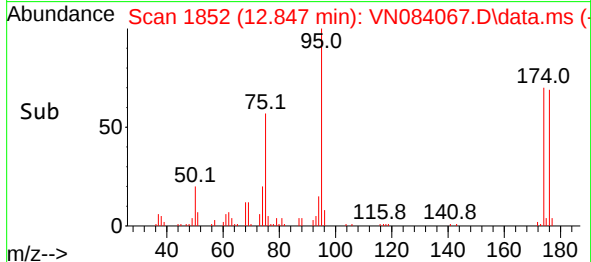
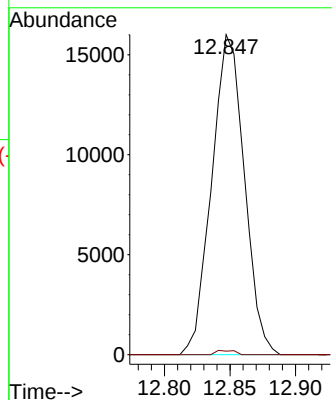
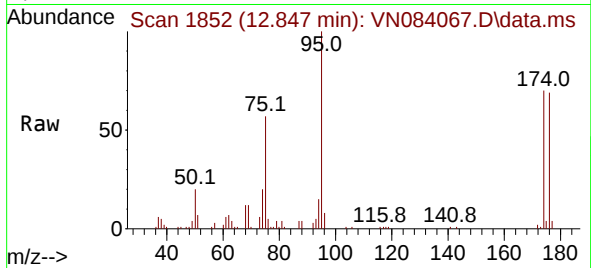




#72  
1,2,3-Trichloropropane  
Concen: 16.975 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN084067.D  
Acq: 20 Sep 2024 13:56

Instrument :  
MSVOA\_N  
ClientSampleId :  
OUTFALL-DSN-002

Tgt Ion: 75 Resp: 27712  
Ion Ratio Lower Upper  
75 100  
77 0.8 0.0 367.6



#77  
t-1,4-Dichloro-2-butene  
Concen: 40.160 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN084067.D  
Acq: 20 Sep 2024 13:56

Tgt Ion: 75 Resp: 27712  
Ion Ratio Lower Upper  
75 100  
53 0.0 45.9 137.7#  
89 0.0 25.9 77.7#

