

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090322\  
 Data File : VN074317.D  
 Acq On : 03 Sep 2022 15:00  
 Operator : JC\MD  
 Sample : VN0903WBL01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0903WBL01

Quant Time: Sep 05 05:34:29 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N090222W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 03 04:35:33 2022  
 Response via : Initial Calibration

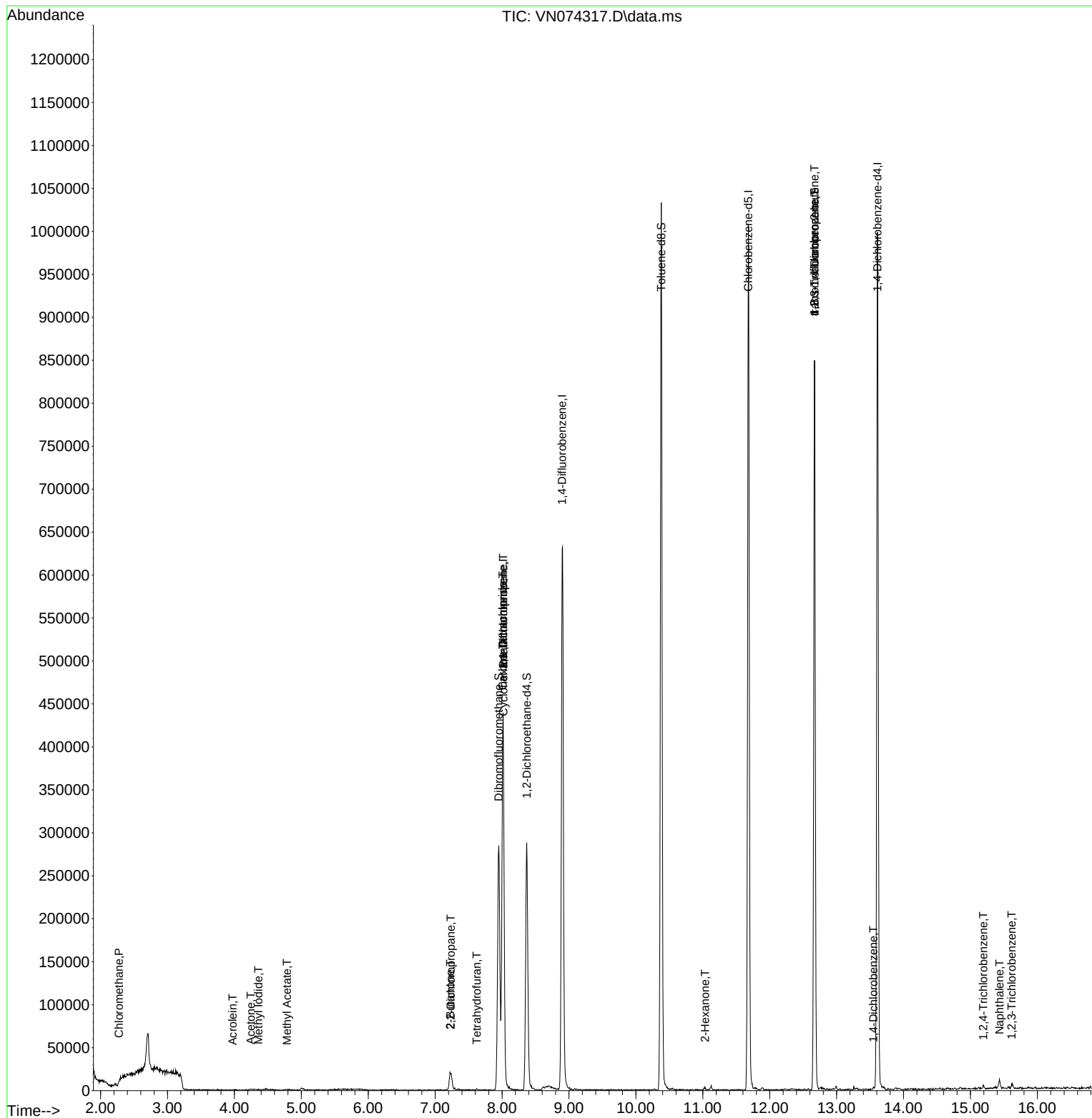
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 8.016          | 168  | 313280     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.898          | 114  | 568392     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.680         | 117  | 557680     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.610         | 152  | 249380     | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.369          | 65   | 229733     | 47.043    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 94.080%   |        |          |
| 35) Dibromofluoromethane      | 7.951          | 113  | 202587     | 53.787    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 107.580%  |        |          |
| 50) Toluene-d8                | 10.380         | 98   | 683256     | 46.005    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 92.000%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.668         | 95   | 255836     | 47.242    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 94.480%   |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 3) Chloromethane              | 2.275          | 50   | 1130       | 0.264     | ug/l # | 82       |
| 10) Methyl Iodide             | 4.357          | 142  | 202        | 5.117     | ug/l # | 84       |
| 13) Acrolein                  | 3.975          | 56   | 190        | 0.319     | ug/l # | 16       |
| 16) Acetone                   | 4.245          | 43   | 1130       | 0.554     | ug/l # | 42       |
| 18) Methyl Acetate            | 4.787          | 43   | 1360       | 0.221     | ug/l # | 69       |
| 20) Methylene Chloride        | 5.004          | 84   | 1513       | Below Cal | #      | 90       |
| 25) 2-Butanone                | 7.228          | 43   | 1030       | 0.299     | ug/l # | 45       |
| 26) 2,2-Dichloropropane       | 7.233          | 77   | 1514       | 0.266     | ug/l # | 53       |
| 29) Tetrahydrofuran           | 7.622          | 42   | 720        | 0.327     | ug/l # | 46       |
| 31) Cyclohexane               | 8.022          | 56   | 8173       | 1.253     | ug/l # | 57       |
| 36) 1,1-Dichloropropene       | 8.016          | 75   | 28530      | 5.337     | ug/l # | 45       |
| 38) Carbon Tetrachloride      | 8.010          | 117  | 34957      | 6.473     | ug/l # | 16       |
| 59) 2-Hexanone                | 11.033         | 43   | 2024       | 0.376     | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 12.668         | 75   | 150930     | 21.369    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.668         | 75   | 150930     | 69.370    | ug/l # | 10       |
| 88) 1,4-Dichlorobenzene       | 13.551         | 146  | 1143       | 0.294     | ug/l   | 81       |
| 93) 1,2,4-Trichlorobenzene    | 15.192         | 180  | 1584       | 1.192     | ug/l # | 90       |
| 94) Hexachlorobutadiene       | 15.245         | 225  | 59         | Below Cal | #      | 18       |
| 95) Naphthalene               | 15.433         | 128  | 8821       | 1.245     | ug/l # | 92       |
| 96) 1,2,3-Trichlorobenzene    | 15.615         | 180  | 1916       | 0.818     | ug/l   | 94       |
| -----                         |                |      |            |           |        |          |

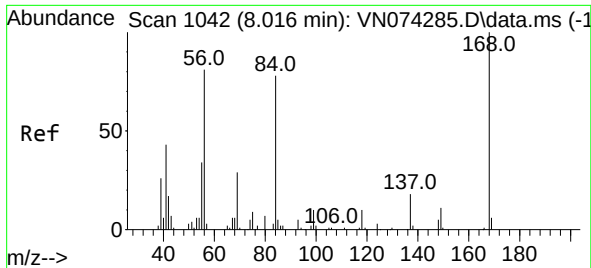
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 3 Sample Multiplier: 1

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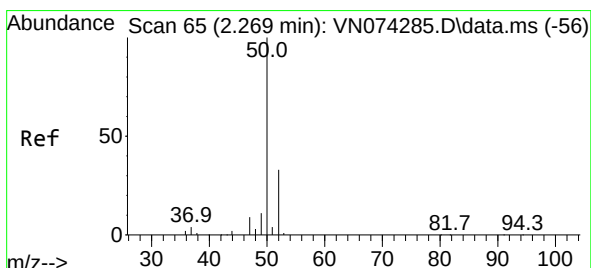
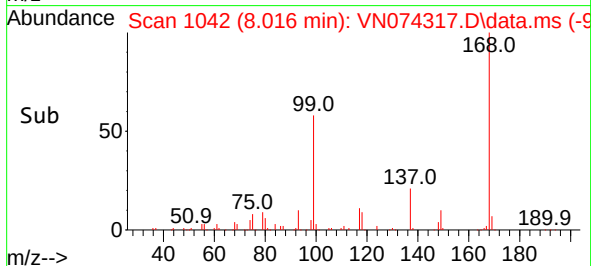
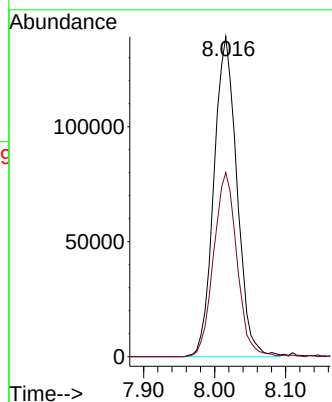
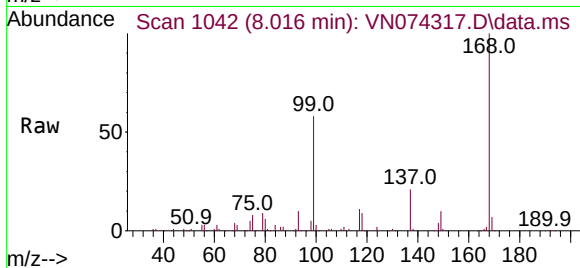




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.000 min  
Lab File: VN074317.D  
Acq: 03 Sep 2022 15:00

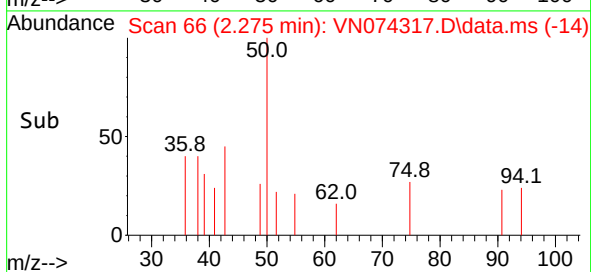
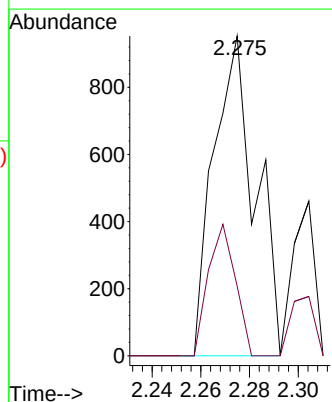
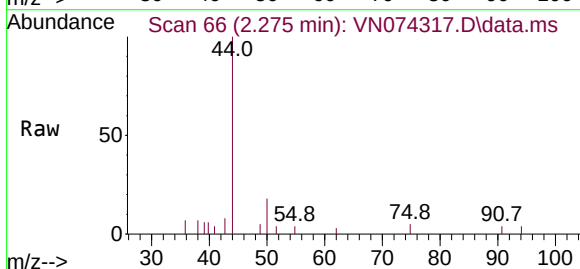
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0903WBL01

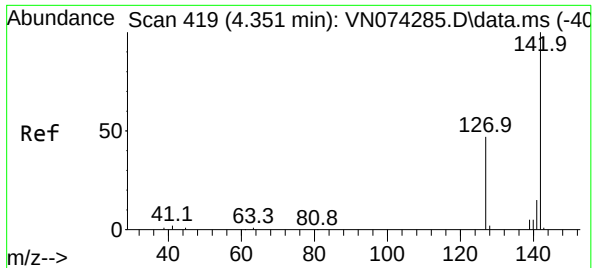
Tgt Ion:168 Resp: 313280  
Ion Ratio Lower Upper  
168 100  
99 57.6 42.3 63.5



#3  
Chloromethane  
Concen: 0.264 ug/l  
RT: 2.275 min Scan# 66  
Delta R.T. 0.006 min  
Lab File: VN074317.D  
Acq: 03 Sep 2022 15:00

Tgt Ion: 50 Resp: 1130  
Ion Ratio Lower Upper  
50 100  
52 21.8 25.7 38.5#

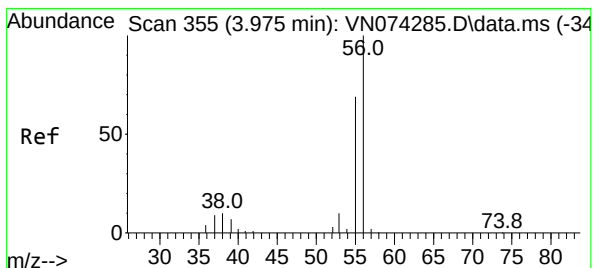
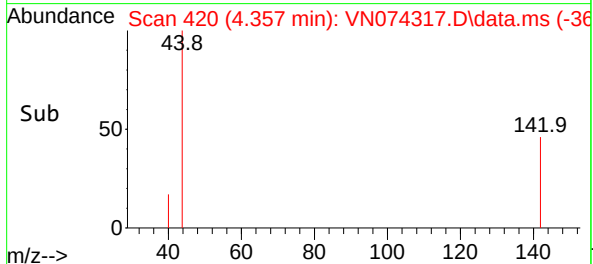
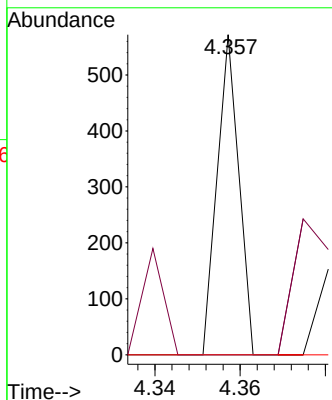
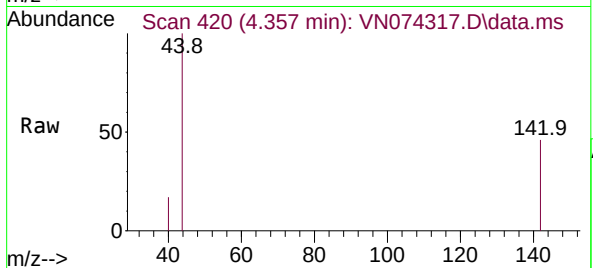




#10  
Methyl Iodide  
Concen: 5.117 ug/l  
RT: 4.357 min Scan# 419  
Delta R.T. 0.011 min  
Lab File: VN074317.D  
Acq: 03 Sep 2022 15:00

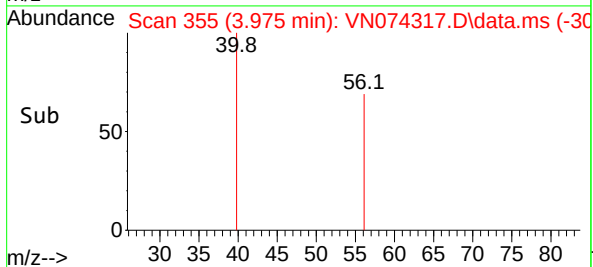
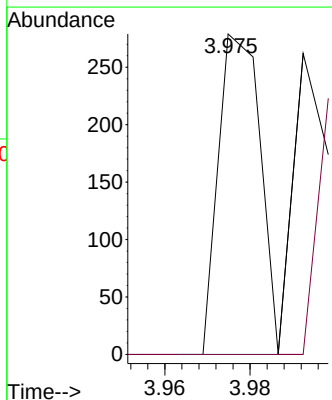
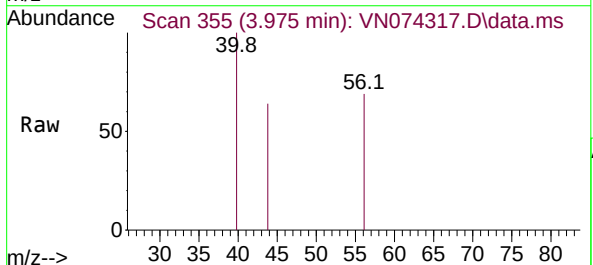
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0903WBL01

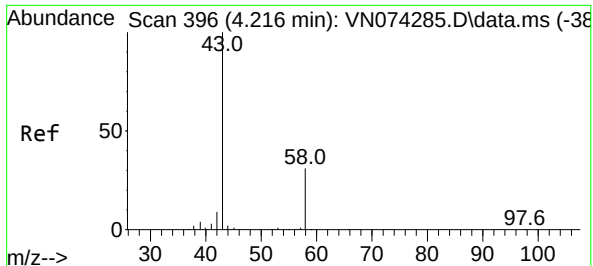
Tgt Ion:142 Resp: 202  
Ion Ratio Lower Upper  
142 100  
127 33.2 31.3 46.9  
141 0.0 11.2 16.8#



#13  
Acrolein  
Concen: 0.319 ug/l  
RT: 3.975 min Scan# 355  
Delta R.T. -0.000 min  
Lab File: VN074317.D  
Acq: 03 Sep 2022 15:00

Tgt Ion: 56 Resp: 190  
Ion Ratio Lower Upper  
56 100  
55 0.0 54.8 82.2#





#16

Acetone

Concen: 0.554 ug/l

RT: 4.245 min Scan# 401

Delta R.T. 0.023 min

Lab File: VN074317.D

Acq: 03 Sep 2022 15:00

Instrument :

MSVOA\_N

ClientSampleId :

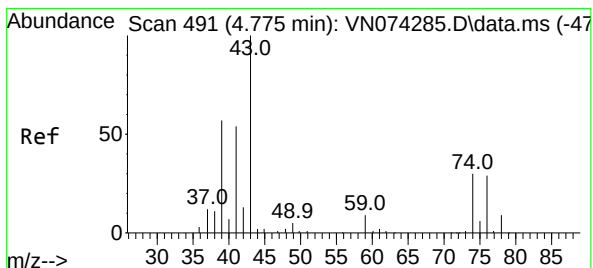
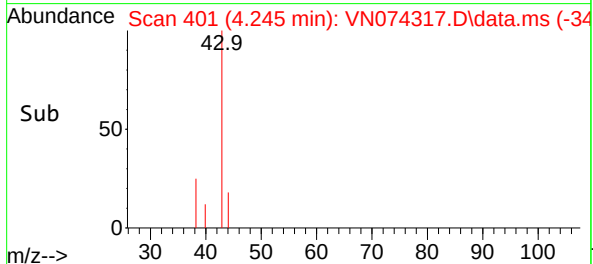
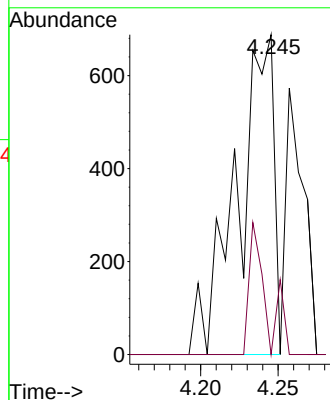
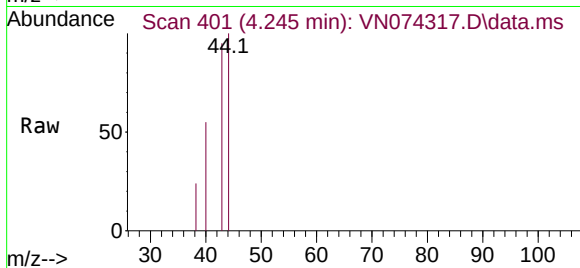
VN0903WBL01

Tgt Ion: 43 Resp: 1130

Ion Ratio Lower Upper

43 100

58 0.0 26.0 39.0#



#18

Methyl Acetate

Concen: 0.221 ug/l

RT: 4.787 min Scan# 493

Delta R.T. 0.012 min

Lab File: VN074317.D

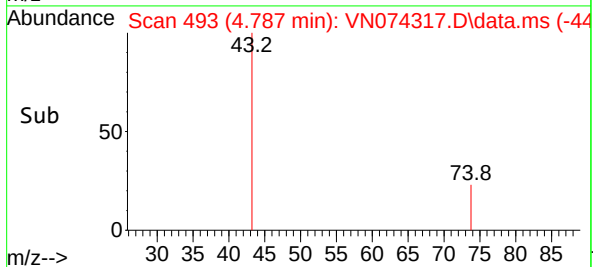
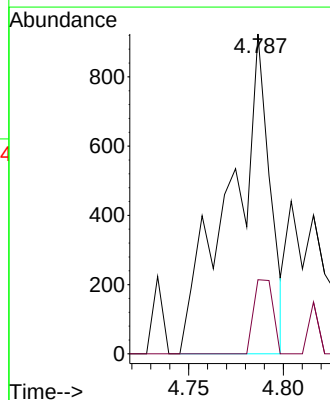
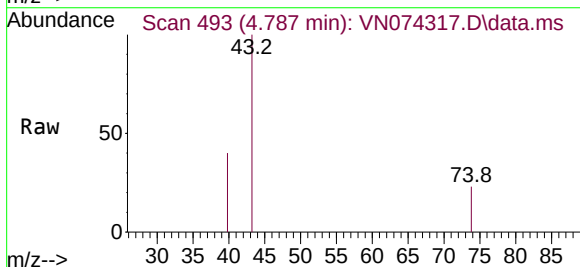
Acq: 03 Sep 2022 15:00

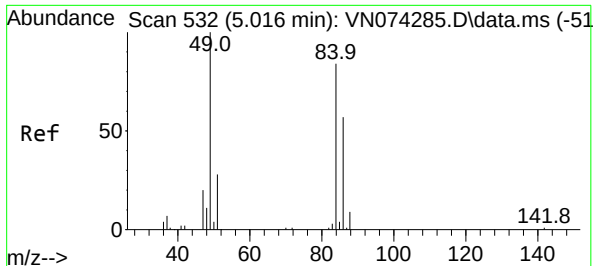
Tgt Ion: 43 Resp: 1360

Ion Ratio Lower Upper

43 100

74 11.0 21.6 32.4#

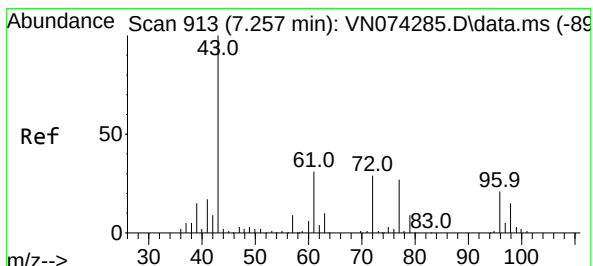
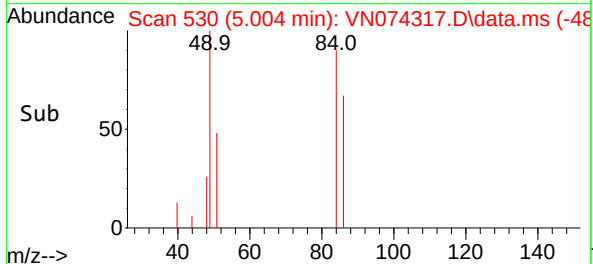
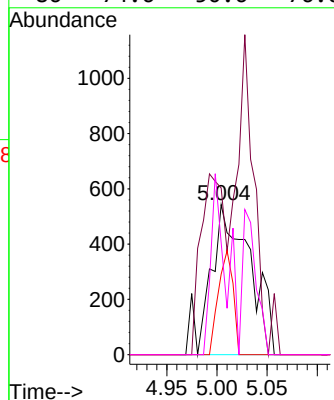
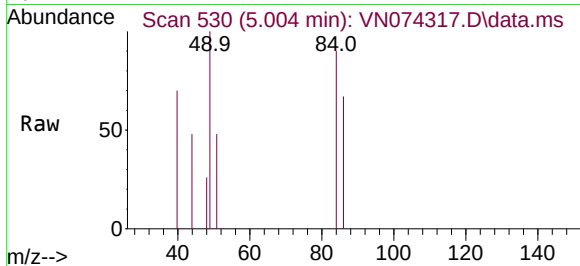




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.004 min Scan# 51  
Delta R.T. -0.006 min  
Lab File: VN074317.D  
Acq: 03 Sep 2022 15:00

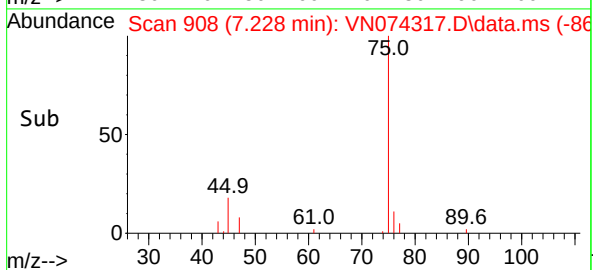
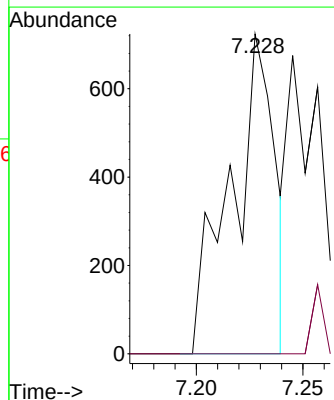
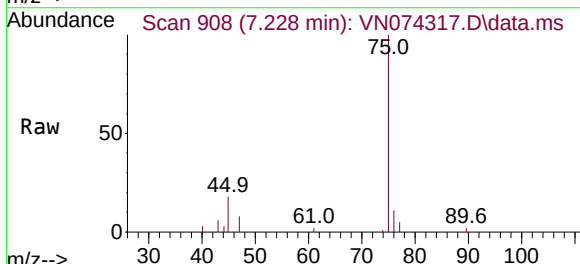
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0903WBL01

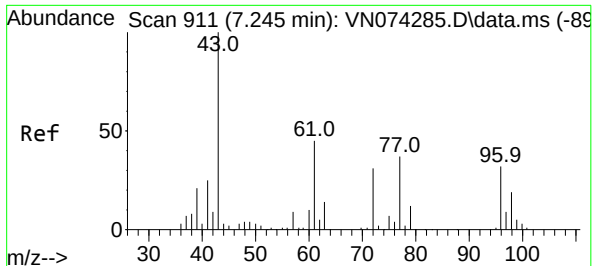
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 1513  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 111.0 | 88.3  | 132.5 |
| 51       | 53.6  | 28.2  | 42.2# |
| 86       | 74.6  | 50.6  | 76.0  |



#25  
2-Butanone  
Concen: 0.299 ug/l  
RT: 7.228 min Scan# 908  
Delta R.T. -0.029 min  
Lab File: VN074317.D  
Acq: 03 Sep 2022 15:00

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1030  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 23.7  | 35.5# |





#26

2,2-Dichloropropane

Concen: 0.266 ug/l

RT: 7.233 min Scan# 909

Delta R.T. -0.012 min

Lab File: VN074317.D

Acq: 03 Sep 2022 15:00

Instrument :

MSVOA\_N

ClientSampleId :

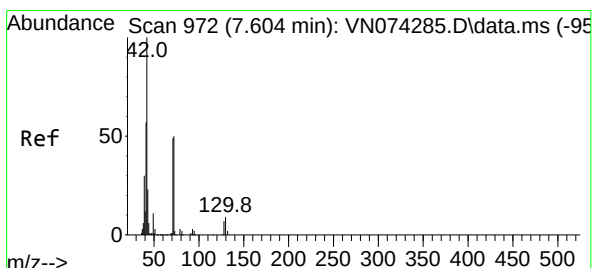
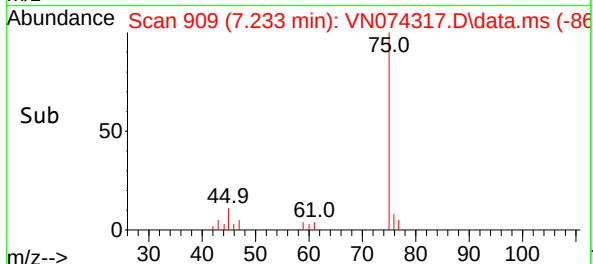
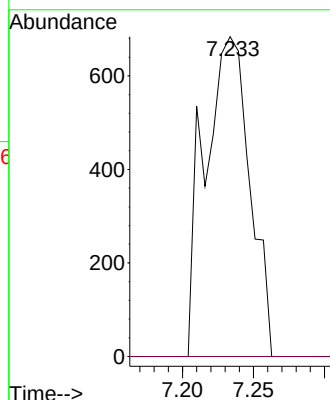
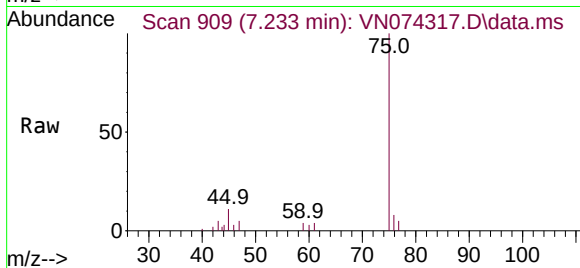
VN0903WBL01

Tgt Ion: 77 Resp: 1514

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.2#



#29

Tetrahydrofuran

Concen: 0.327 ug/l

RT: 7.622 min Scan# 975

Delta R.T. 0.012 min

Lab File: VN074317.D

Acq: 03 Sep 2022 15:00

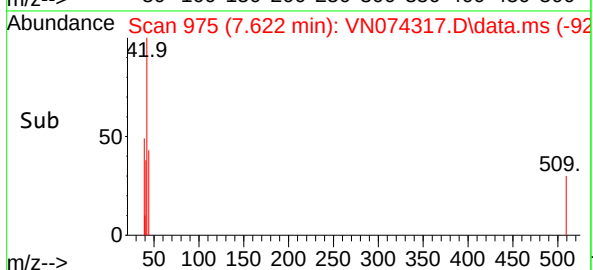
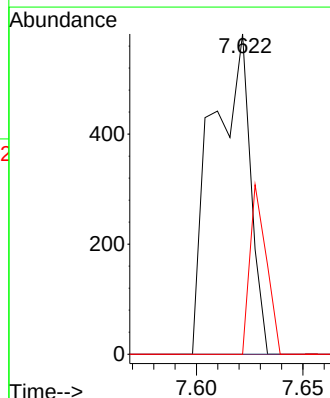
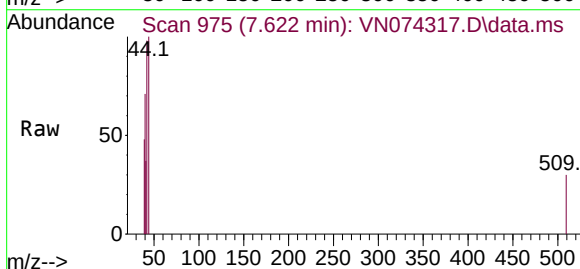
Tgt Ion: 42 Resp: 720

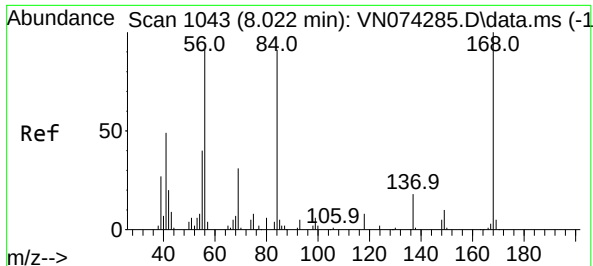
Ion Ratio Lower Upper

42 100

72 0.0 39.7 59.5#

71 23.1 36.6 55.0#

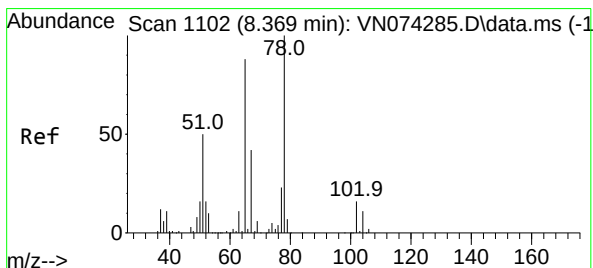
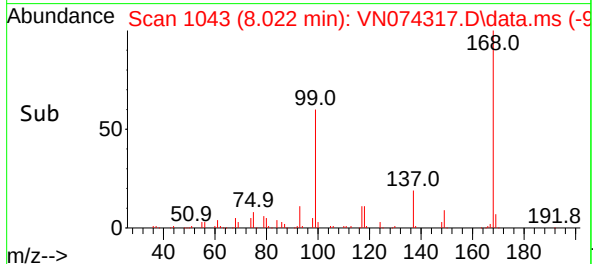
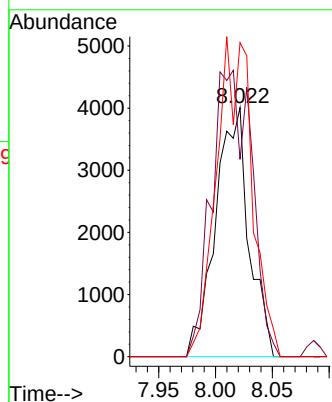
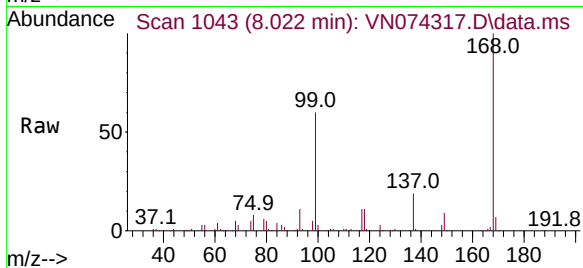




#31  
Cyclohexane  
Concen: 1.253 ug/l  
RT: 8.022 min Scan# 1043  
Delta R.T. -0.000 min  
Lab File: VN074317.D  
Acq: 03 Sep 2022 15:00

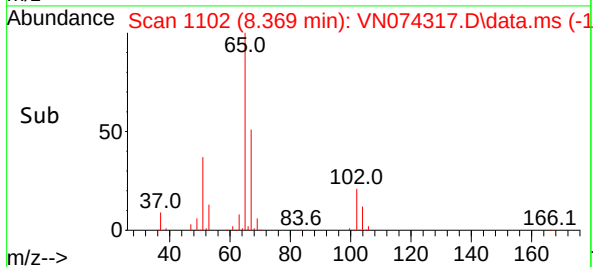
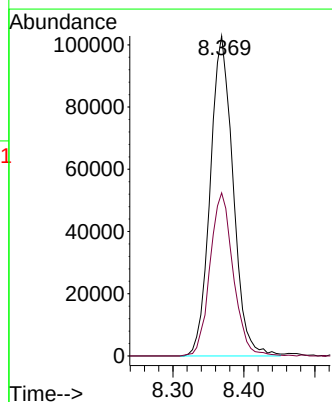
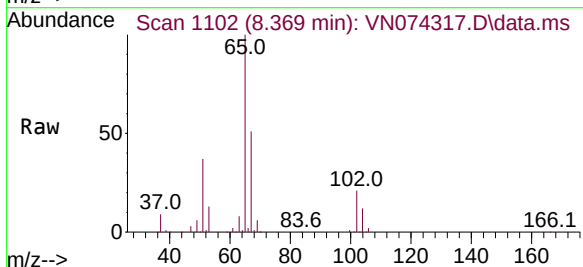
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0903WBL01

Tgt Ion: 56 Resp: 8173  
Ion Ratio Lower Upper  
56 100  
69 79.2 27.8 41.8#  
84 126.1 76.9 115.3#

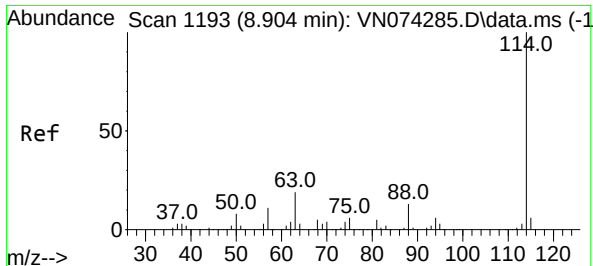


#33  
1,2-Dichloroethane-d4  
Concen: 47.043 ug/l  
RT: 8.369 min Scan# 1102  
Delta R.T. -0.000 min  
Lab File: VN074317.D  
Acq: 03 Sep 2022 15:00

Tgt Ion: 65 Resp: 229733  
Ion Ratio Lower Upper  
65 100  
67 51.8 0.0 104.8







#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.898 min Scan# 1192

Delta R.T. -0.006 min

Lab File: VN074317.D

Acq: 03 Sep 2022 15:00

Instrument :

MSVOA\_N

ClientSampleId :

VN0903WBL01

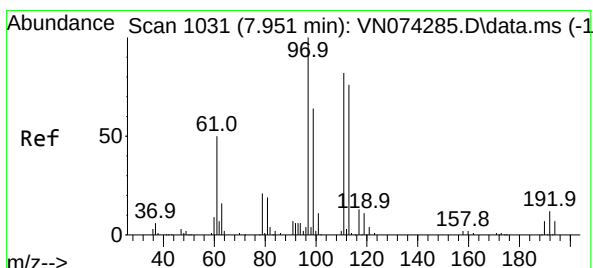
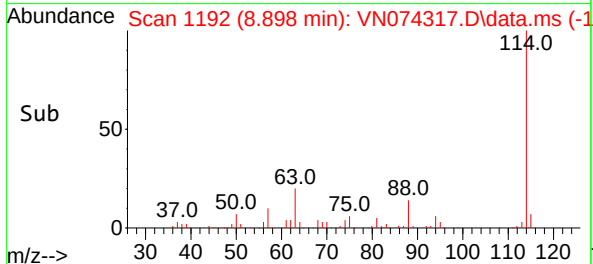
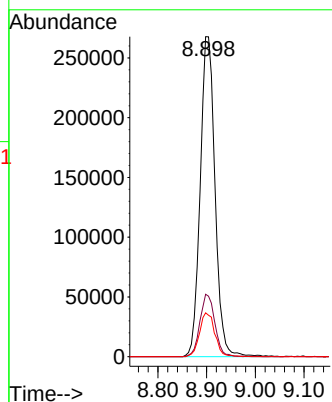
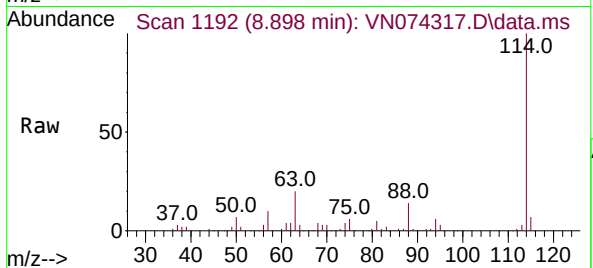
Tgt Ion:114 Resp: 568392

Ion Ratio Lower Upper

114 100

63 19.5 0.0 40.0

88 13.7 0.0 32.6



#35

Dibromofluoromethane

Concen: 53.787 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN074317.D

Acq: 03 Sep 2022 15:00

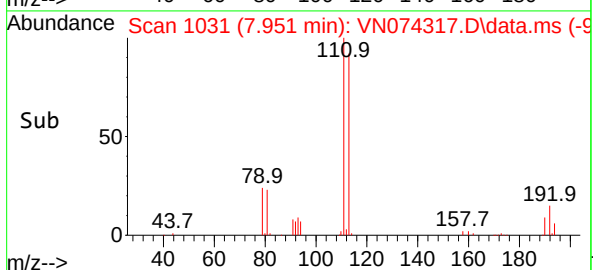
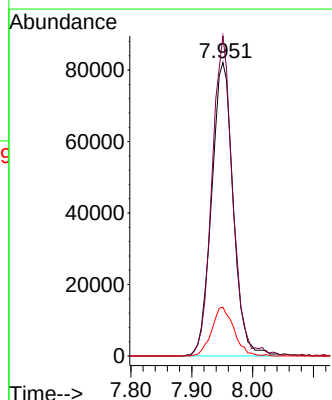
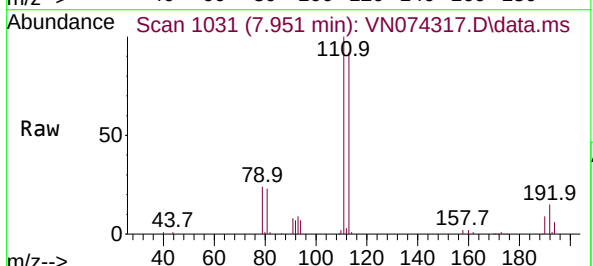
Tgt Ion:113 Resp: 202587

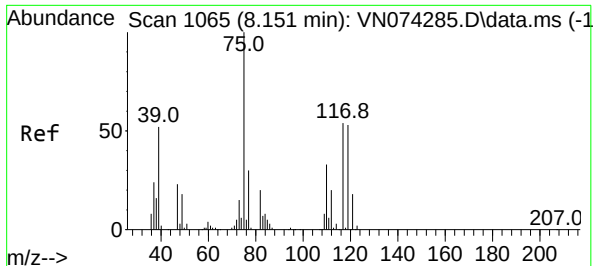
Ion Ratio Lower Upper

113 100

111 104.4 81.4 122.0

192 17.1 17.0 25.6

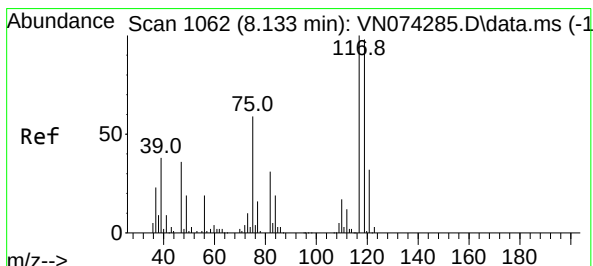
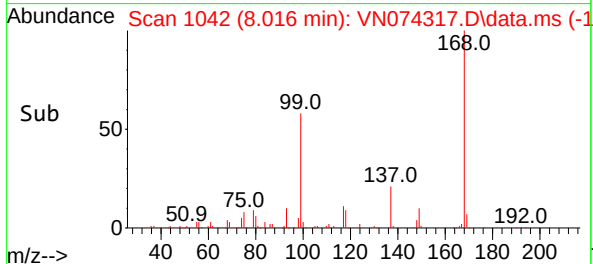
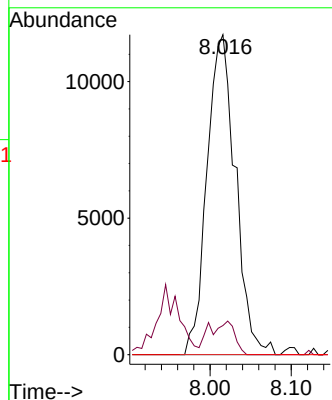
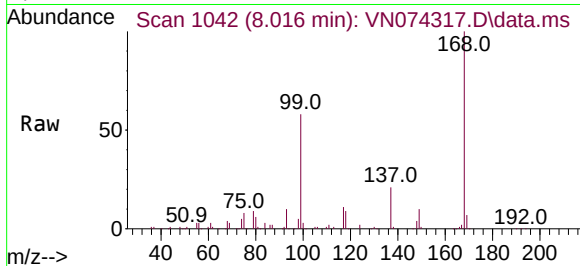




#36  
1,1-Dichloropropene  
Concen: 5.337 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.141 min  
Lab File: VN074317.D  
Acq: 03 Sep 2022 15:00

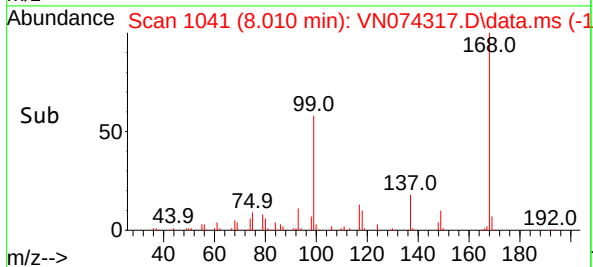
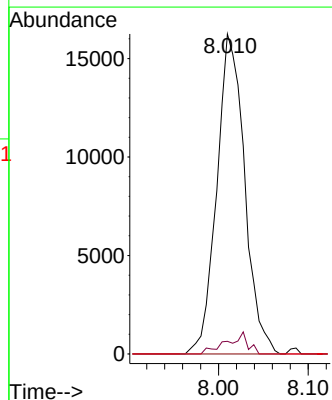
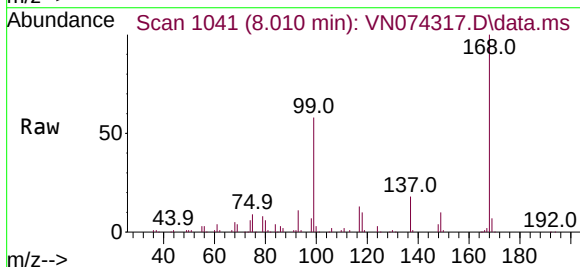
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0903WBL01

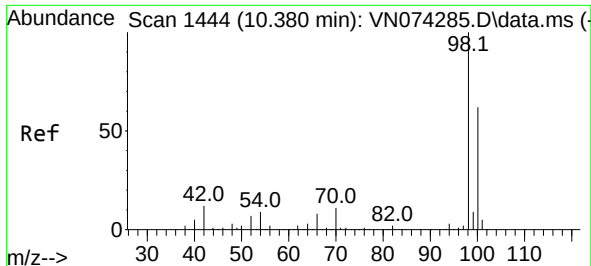
Tgt Ion: 75 Resp: 28530  
Ion Ratio Lower Upper  
75 100  
110 4.9 18.3 54.8#  
77 0.0 25.1 37.7#



#38  
Carbon Tetrachloride  
Concen: 6.473 ug/l  
RT: 8.010 min Scan# 1041  
Delta R.T. -0.123 min  
Lab File: VN074317.D  
Acq: 03 Sep 2022 15:00

Tgt Ion: 117 Resp: 34957  
Ion Ratio Lower Upper  
117 100  
119 4.0 75.8 113.8#  
121 0.0 24.6 37.0#





#50

Toluene-d8

Concen: 46.005 ug/l

RT: 10.380 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN074317.D

Acq: 03 Sep 2022 15:00

Instrument :

MSVOA\_N

ClientSampleId :

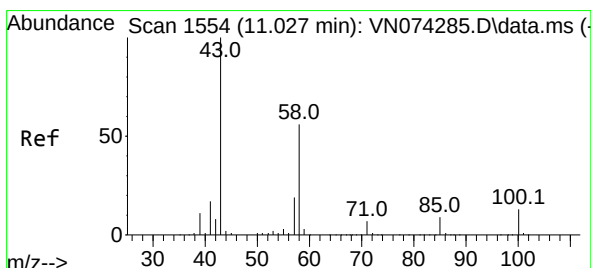
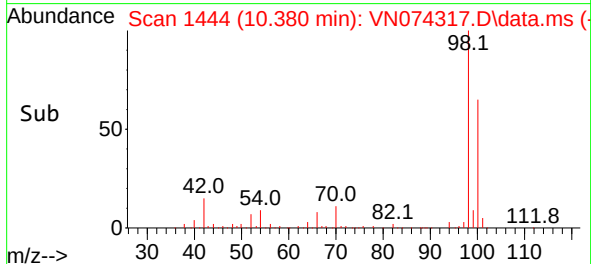
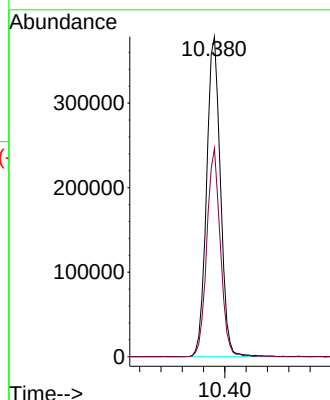
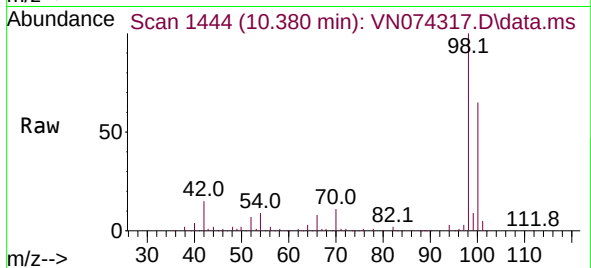
VN0903WBL01

Tgt Ion: 98 Resp: 683256

Ion Ratio Lower Upper

98 100

100 63.7 52.6 78.8



#59

2-Hexanone

Concen: 0.376 ug/l

RT: 11.033 min Scan# 1555

Delta R.T. 0.006 min

Lab File: VN074317.D

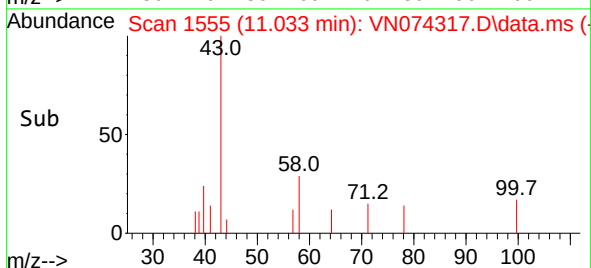
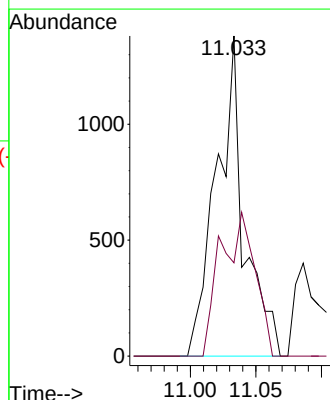
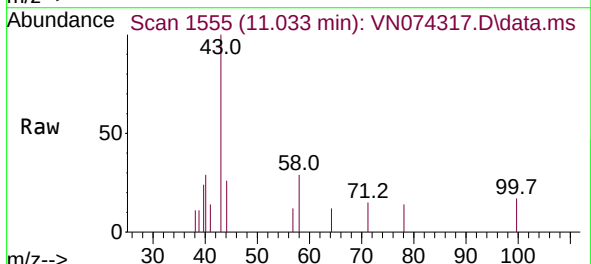
Acq: 03 Sep 2022 15:00

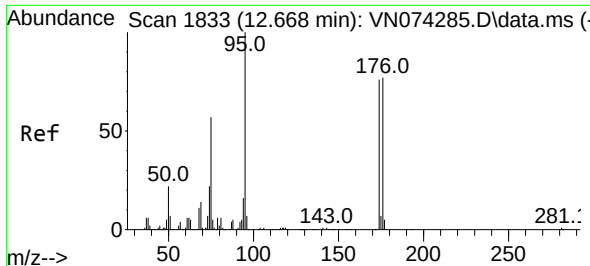
Tgt Ion: 43 Resp: 2024

Ion Ratio Lower Upper

43 100

58 56.2 29.7 89.1

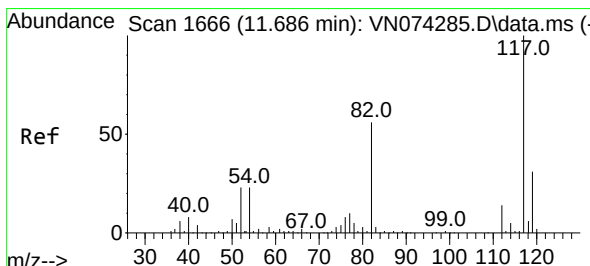
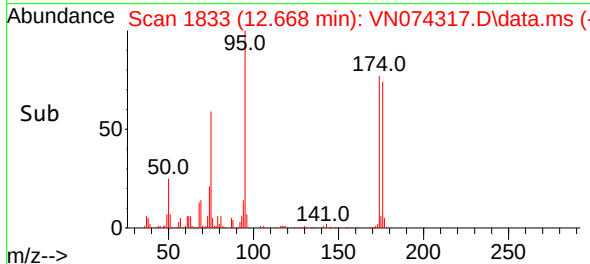
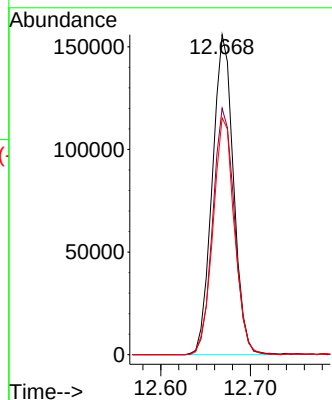
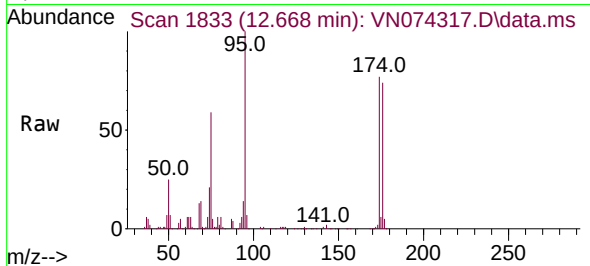




#62  
4-Bromofluorobenzene  
Concen: 47.242 ug/l  
RT: 12.668 min Scan# 1833  
Delta R.T. -0.001 min  
Lab File: VN074317.D  
Acq: 03 Sep 2022 15:00

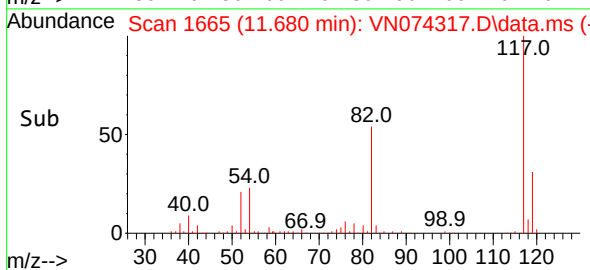
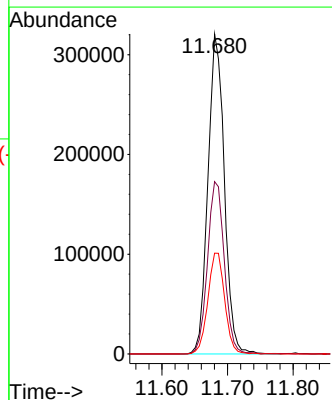
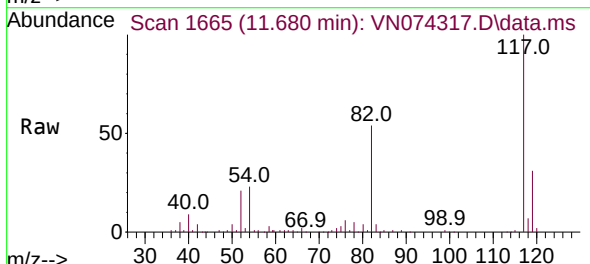
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0903WBL01

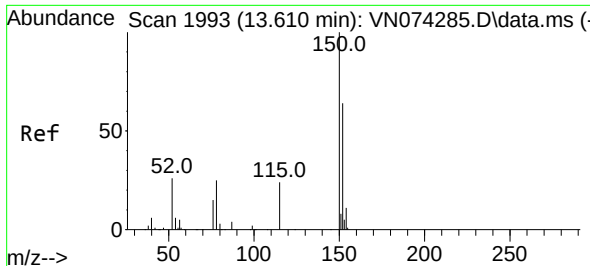
Tgt Ion: 95 Resp: 255836  
Ion Ratio Lower Upper  
95 100  
174 78.5 0.0 167.6  
176 74.7 0.0 163.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.680 min Scan# 1665  
Delta R.T. -0.006 min  
Lab File: VN074317.D  
Acq: 03 Sep 2022 15:00

Tgt Ion: 117 Resp: 557680  
Ion Ratio Lower Upper  
117 100  
82 53.9 44.2 66.2  
119 31.5 25.4 38.0

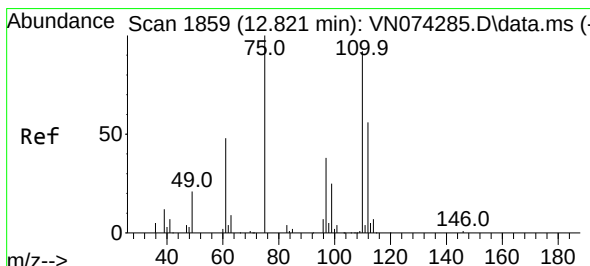
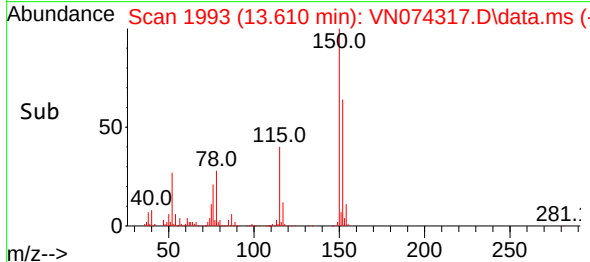
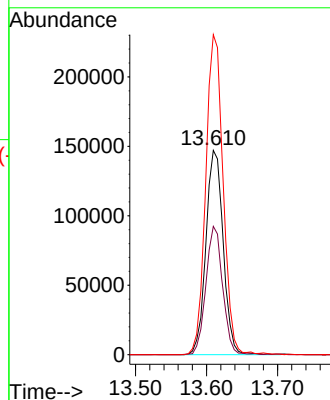
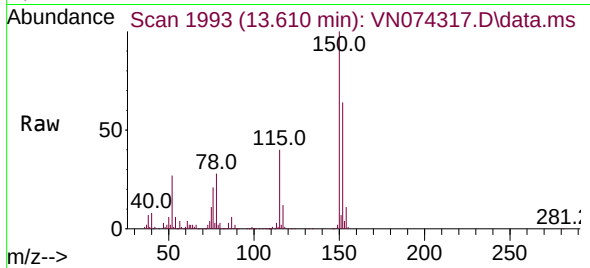




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.610 min Scan# 1993  
 Delta R.T. -0.000 min  
 Lab File: VN074317.D  
 Acq: 03 Sep 2022 15:00

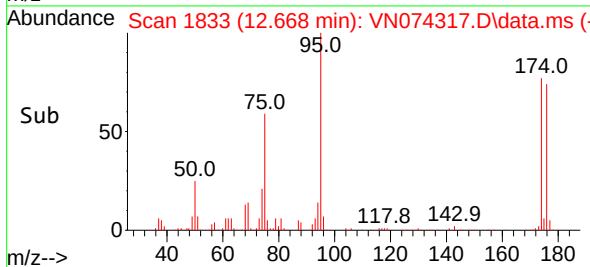
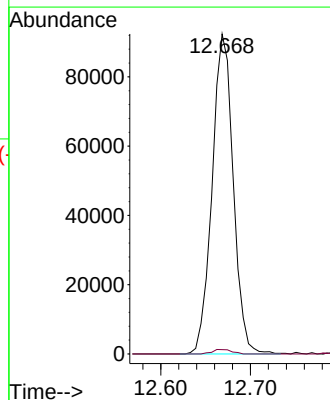
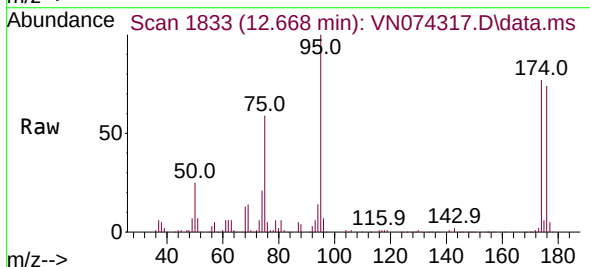
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0903WBL01

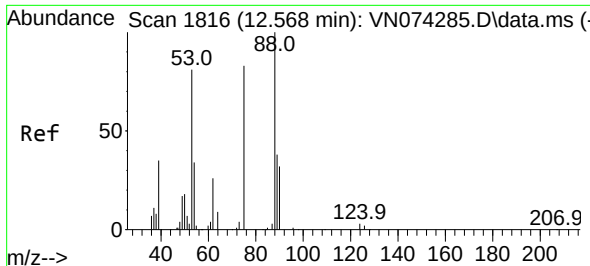
Tgt Ion:152 Resp: 249380  
 Ion Ratio Lower Upper  
 152 100  
 115 60.8 28.9 86.7  
 150 156.9 0.0 356.2



#76  
 1,2,3-Trichloropropane  
 Concen: 21.369 ug/l  
 RT: 12.668 min Scan# 1833  
 Delta R.T. -0.153 min  
 Lab File: VN074317.D  
 Acq: 03 Sep 2022 15:00

Tgt Ion: 75 Resp: 150930  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 98.5 295.5#

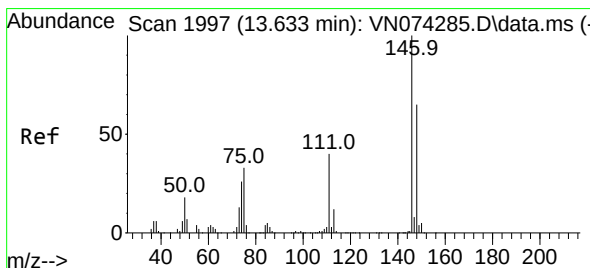
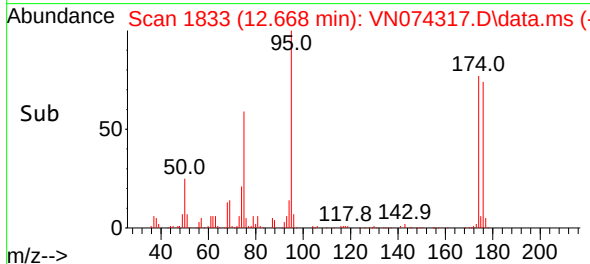
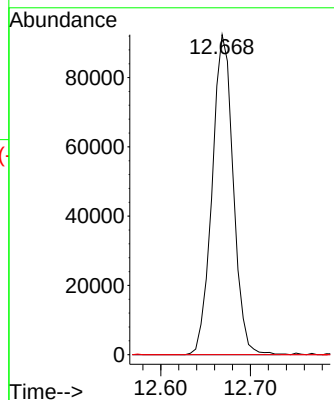
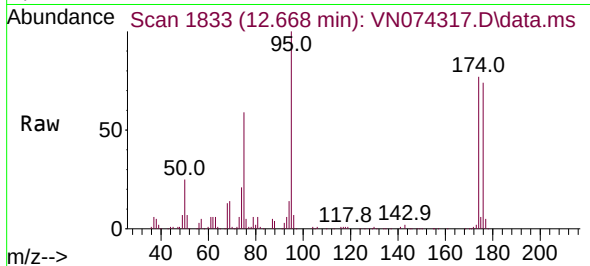




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 69.370 ug/l  
 RT: 12.668 min Scan# 1816  
 Delta R.T. 0.105 min  
 Lab File: VN074317.D  
 Acq: 03 Sep 2022 15:00

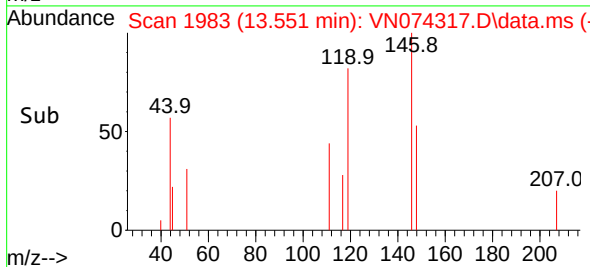
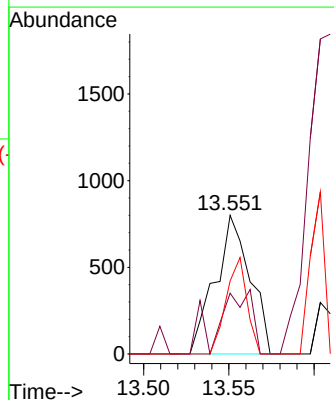
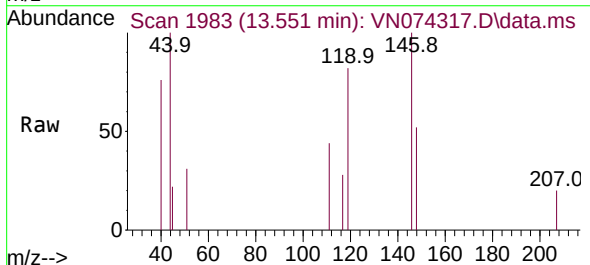
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0903WBL01

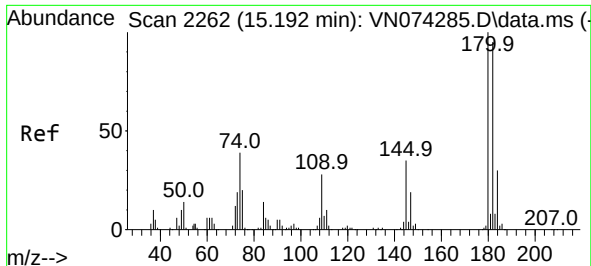
Tgt Ion: 75 Resp: 150930  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 78.0 117.0#  
 89 0.0 37.2 55.8#



#88  
 1,4-Dichlorobenzene  
 Concen: 0.294 ug/l  
 RT: 13.551 min Scan# 1983  
 Delta R.T. -0.082 min  
 Lab File: VN074317.D  
 Acq: 03 Sep 2022 15:00

Tgt Ion: 146 Resp: 1143  
 Ion Ratio Lower Upper  
 146 100  
 111 36.2 19.1 57.1  
 148 41.1 31.4 94.3

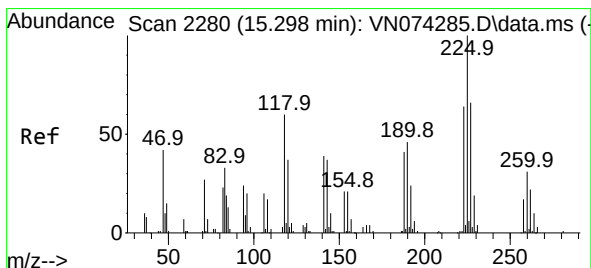
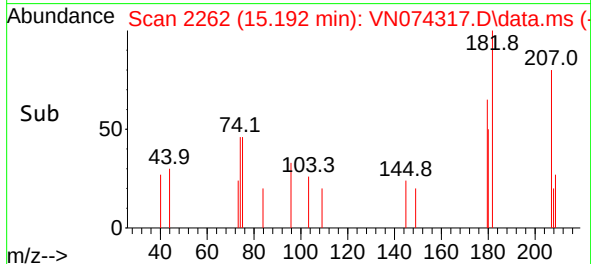
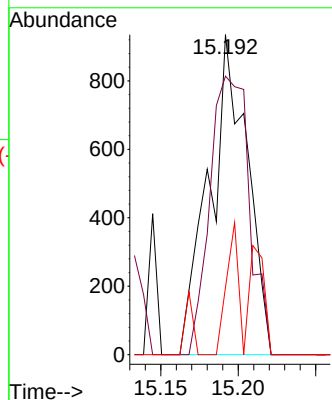
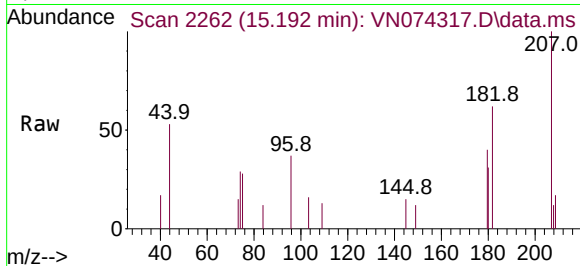




#93  
1,2,4-Trichlorobenzene  
Concen: 1.192 ug/l  
RT: 15.192 min Scan# 211  
Delta R.T. -0.006 min  
Lab File: VN074317.D  
Acq: 03 Sep 2022 15:00

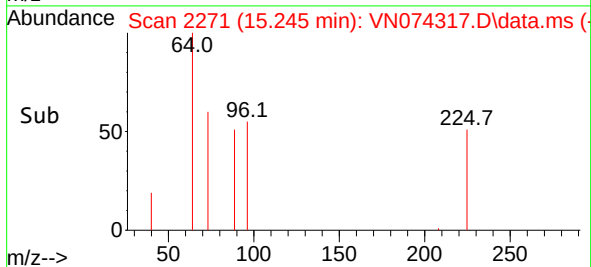
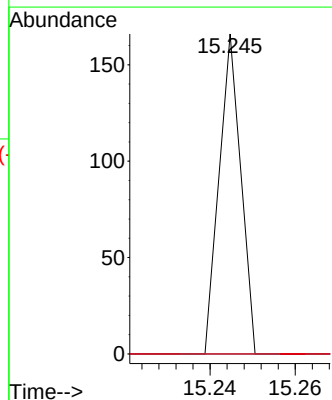
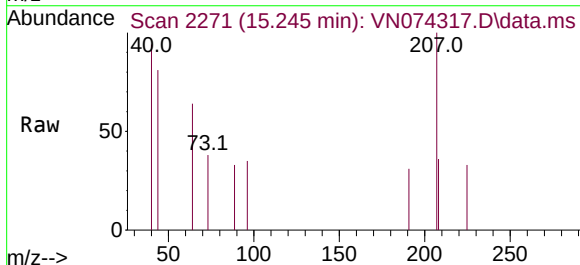
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0903WBL01

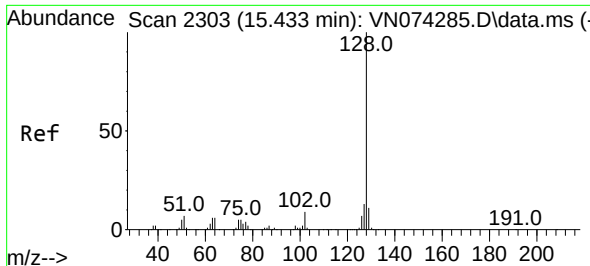
Tgt Ion:180 Resp: 1584  
Ion Ratio Lower Upper  
180 100  
182 90.8 47.5 142.5  
145 13.0 14.5 43.5#



#94  
Hexachlorobutadiene  
Concen: Below Cal  
RT: 15.245 min Scan# 2271  
Delta R.T. -0.053 min  
Lab File: VN074317.D  
Acq: 03 Sep 2022 15:00

Tgt Ion:225 Resp: 59  
Ion Ratio Lower Upper  
225 100  
223 0.0 32.4 97.2#  
227 0.0 31.8 95.4#

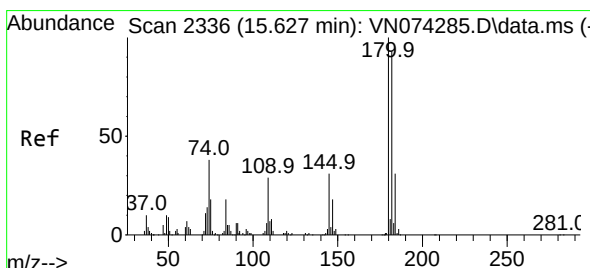
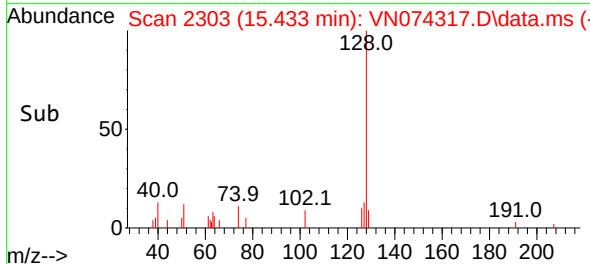
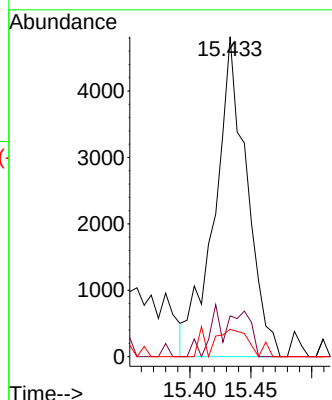
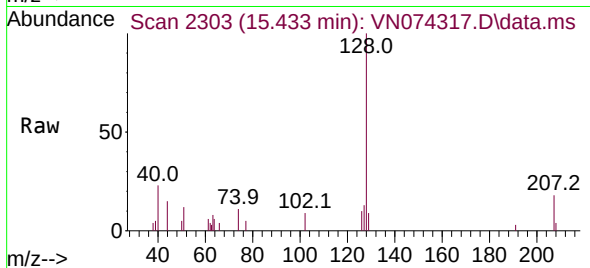




#95  
Naphthalene  
Concen: 1.245 ug/l  
RT: 15.433 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN074317.D  
Acq: 03 Sep 2022 15:00

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0903WBL01

Tgt Ion:128 Resp: 8821  
Ion Ratio Lower Upper  
128 100  
127 9.6 10.3 15.5#  
129 7.8 8.6 13.0#



#96  
1,2,3-Trichlorobenzene  
Concen: 0.818 ug/l  
RT: 15.615 min Scan# 2334  
Delta R.T. -0.012 min  
Lab File: VN074317.D  
Acq: 03 Sep 2022 15:00

Tgt Ion:180 Resp: 1916  
Ion Ratio Lower Upper  
180 100  
182 100.2 47.8 143.3  
145 25.1 15.5 46.5

