

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091722\  
 Data File : VN074558.D  
 Acq On : 17 Sep 2022 16:04  
 Operator : JC\MD  
 Sample : N4549-24  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TB090822

Quant Time: Sep 19 02:56:31 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091522W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 15 19:20:33 2022  
 Response via : Initial Calibration

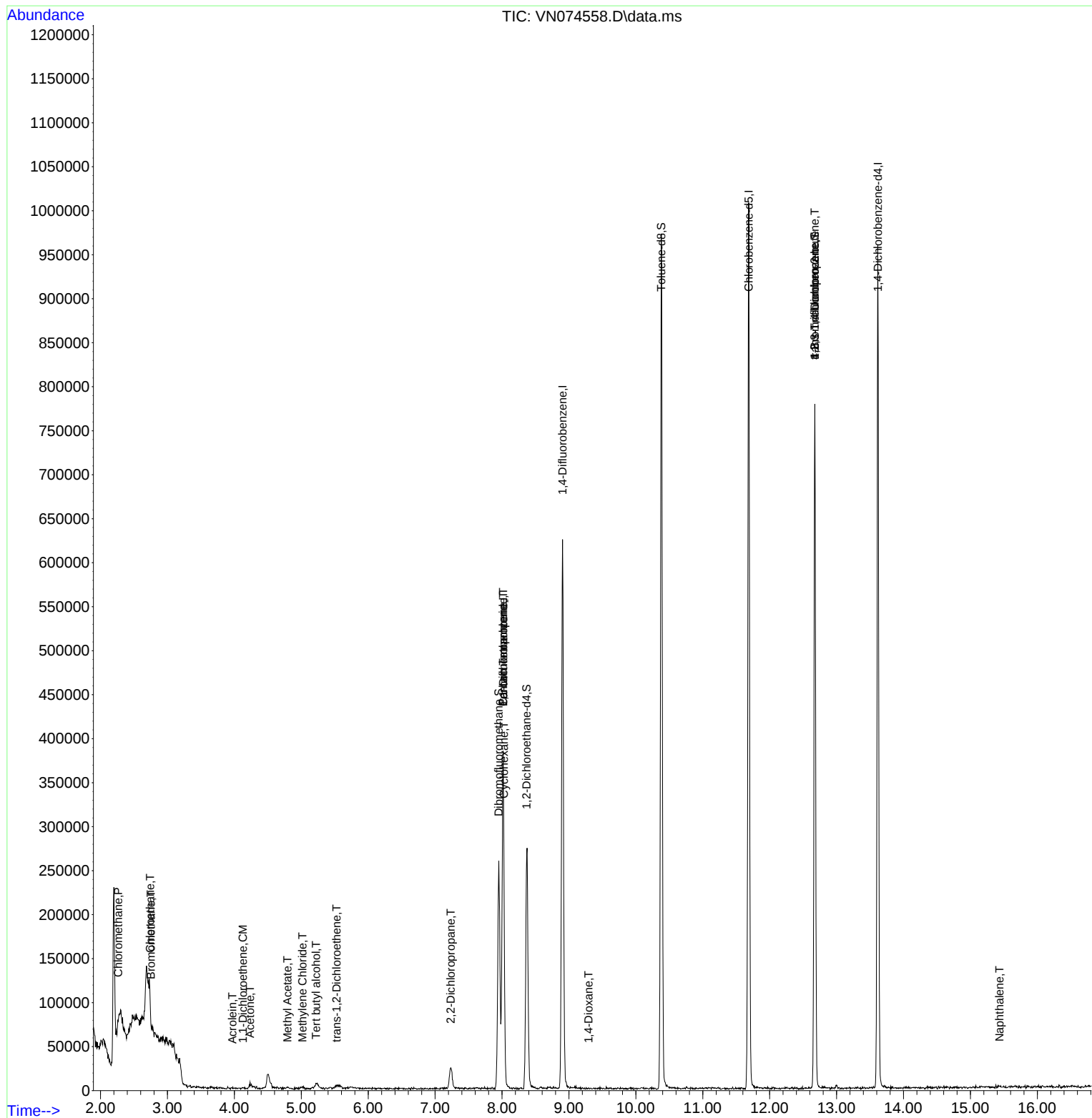
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 8.016  | 168   | 257431   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.904  | 114   | 500532   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.686 | 117   | 510876   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.616 | 152   | 218469   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.369  | 65    | 209781   | 48.028   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 96.060%  |
| 35) Dibromofluoromethane      | 7.951  | 113   | 173741   | 52.254   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 104.500% |
| 50) Toluene-d8                | 10.381 | 98    | 619128   | 48.148   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 96.300%  |
| 62) 4-Bromofluorobenzene      | 12.674 | 95    | 236787   | 53.765   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 107.540% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 2.263  | 50    | 1912     | 0.662    | ug/l # | 85       |
| 5) Bromomethane               | 2.752  | 94    | 532      | 0.200    | ug/l # | 26       |
| 6) Chloroethane               | 2.740  | 64    | 29584    | 8.588    | ug/l # | 44       |
| 11) Tert butyl alcohol        | 5.222  | 59    | 6434     | 4.522    | ug/l # | 75       |
| 12) 1,1-Dichloroethene        | 4.128  | 96    | 72       | 0.705    | ug/l # | 1        |
| 13) Acrolein                  | 3.969  | 56    | 104      | 0.200    | ug/l   | 90       |
| 16) Acetone                   | 4.234  | 43    | 5932     | 2.122    | ug/l # | 77       |
| 18) Methyl Acetate            | 4.793  | 43    | 3429     | 0.395    | ug/l # | 74       |
| 20) Methylene Chloride        | 5.016  | 84    | 768      | 0.211    | ug/l # | 40       |
| 21) trans-1,2-Dichloroethene  | 5.528  | 96    | 56       | 0.444    | ug/l # | 1        |
| 26) 2,2-Dichloropropane       | 7.234  | 77    | 1778     | 0.254    | ug/l # | 53       |
| 31) Cyclohexane               | 8.028  | 56    | 8562     | 1.104    | ug/l # | 64       |
| 36) 1,1-Dichloropropene       | 8.016  | 75    | 25220    | 4.285    | ug/l # | 46       |
| 38) Carbon Tetrachloride      | 8.016  | 117   | 28495    | 5.244    | ug/l # | 17       |
| 49) 1,4-Dioxane               | 9.292  | 88    | 64       | 0.527    | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.674 | 75    | 144966   | 21.557   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.674 | 75    | 144966   | 46.528   | ug/l # | 10       |
| 95) Naphthalene               | 15.433 | 128   | 968      | 1.639    | ug/l # | 80       |
| -----                         |        |       |          |          |        |          |

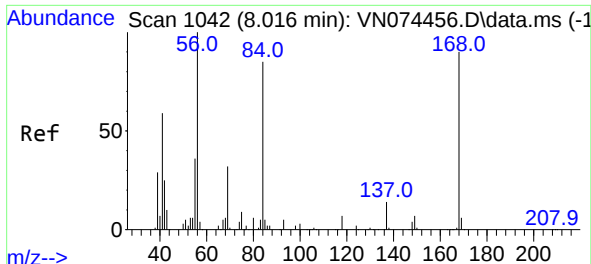
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091722\  
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Quant Title : SW846 8260  
QLast Update : Thu Sep 15 19:20:33 2022  
Response via : Initial Calibration

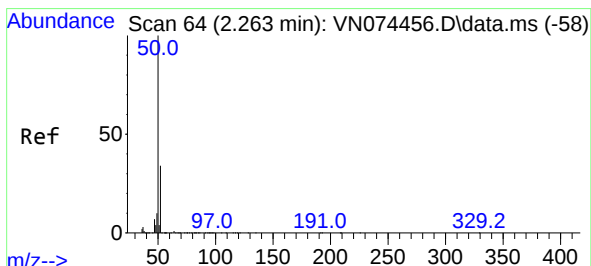
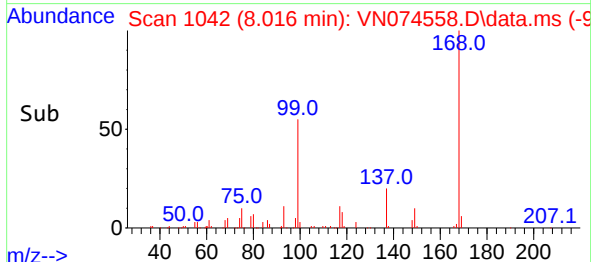
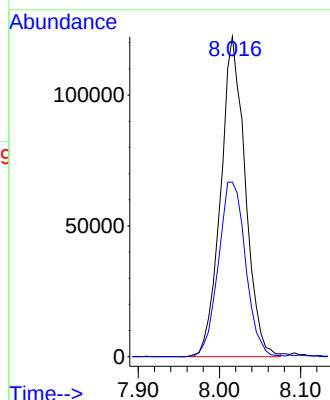
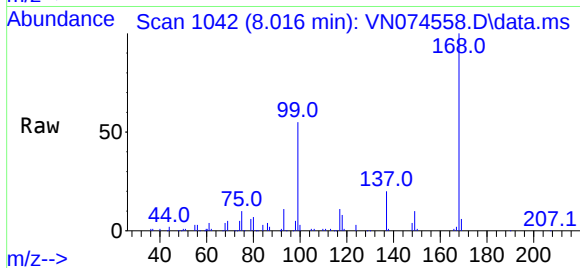




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.000 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

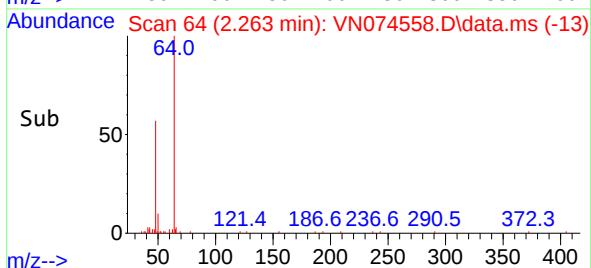
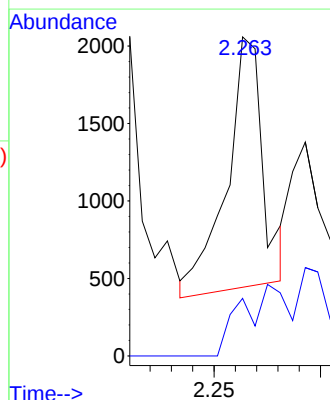
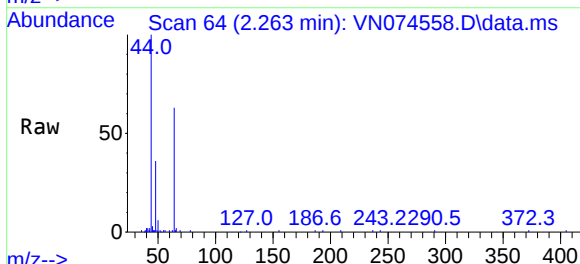
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB090822

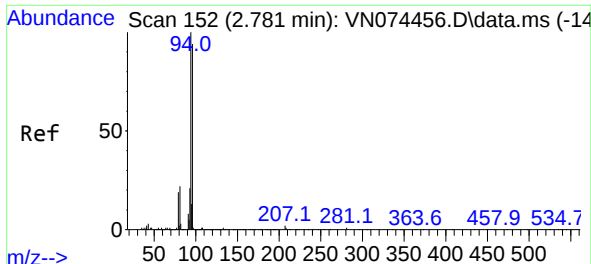
Tgt Ion:168 Resp: 257431  
Ion Ratio Lower Upper  
168 100  
99 54.6 42.3 63.5



#3  
Chloromethane  
Concen: 0.662 ug/l  
RT: 2.263 min Scan# 64  
Delta R.T. 0.000 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

Tgt Ion: 50 Resp: 1912  
Ion Ratio Lower Upper  
50 100  
52 23.6 25.7 38.5#

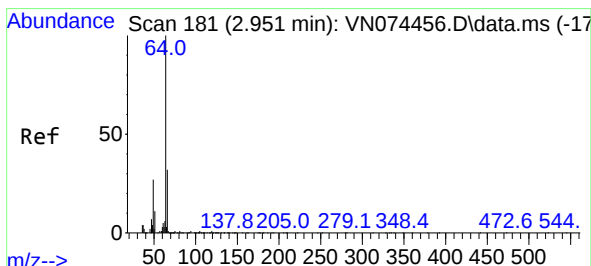
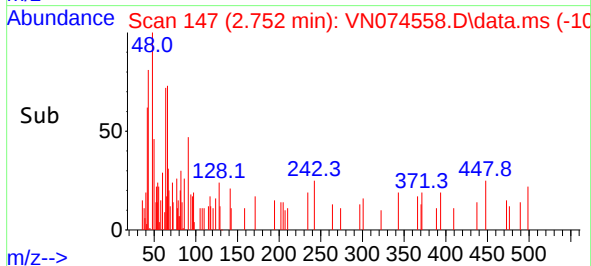
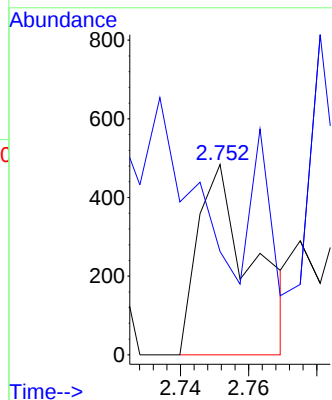
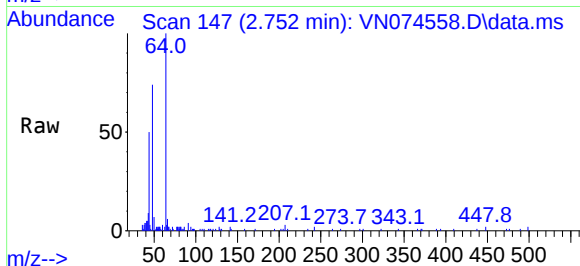




#5  
Bromomethane  
Concen: 0.200 ug/l  
RT: 2.752 min Scan# 14  
Delta R.T. -0.029 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

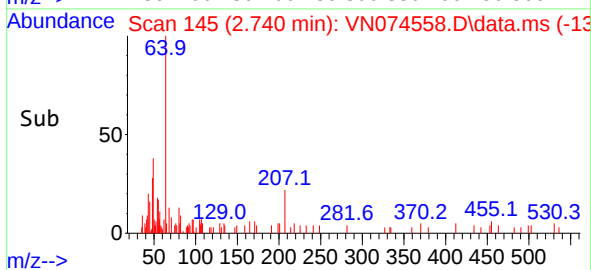
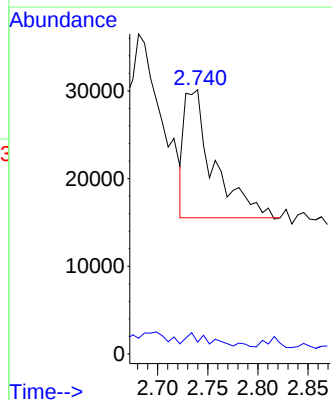
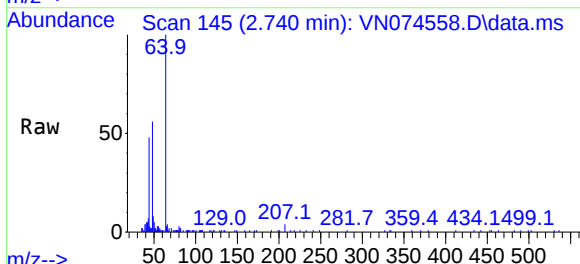
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MSVOA\_N  
ClientSampleId :  
TB090822

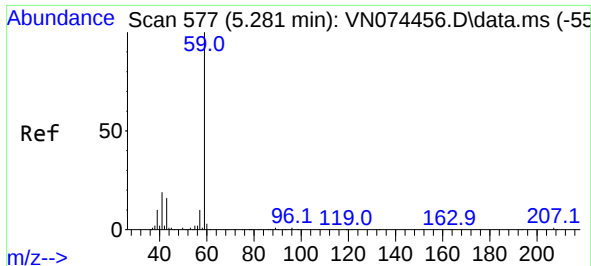
Tgt Ion: 94 Resp: 532  
Ion Ratio Lower Upper  
94 100  
96 23.3 76.0 114.0#



#6  
Chloroethane  
Concen: 8.588 ug/l  
RT: 2.740 min Scan# 145  
Delta R.T. -0.211 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

Tgt Ion: 64 Resp: 29584  
Ion Ratio Lower Upper  
64 100  
66 1.4 26.2 39.4#

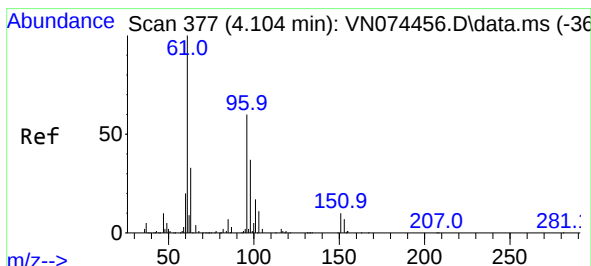
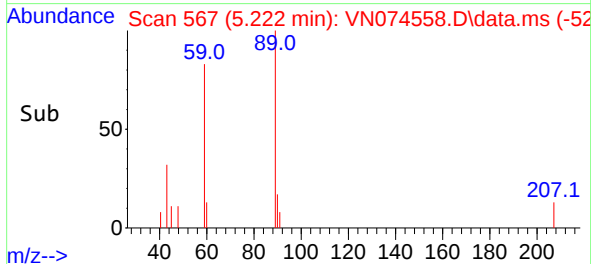
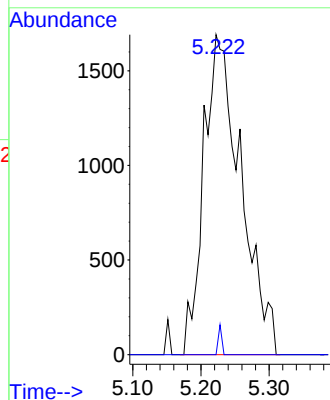
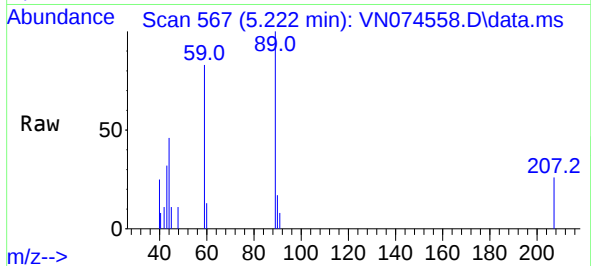




#11  
Tert butyl alcohol  
Concen: 4.522 ug/l  
RT: 5.222 min Scan# 50  
Delta R.T. -0.059 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

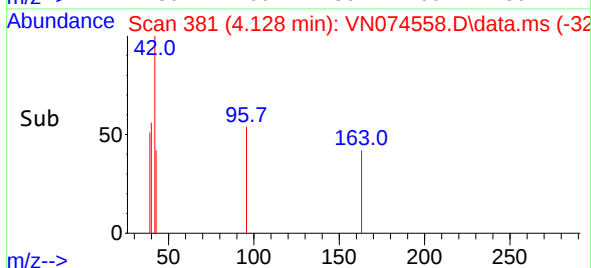
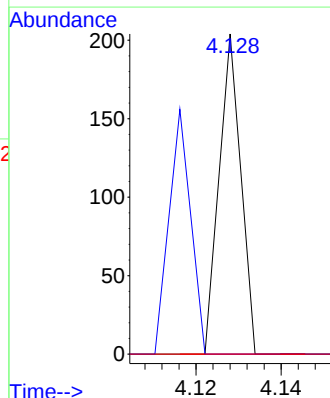
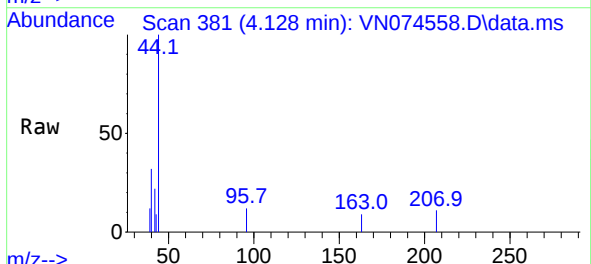
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB090822

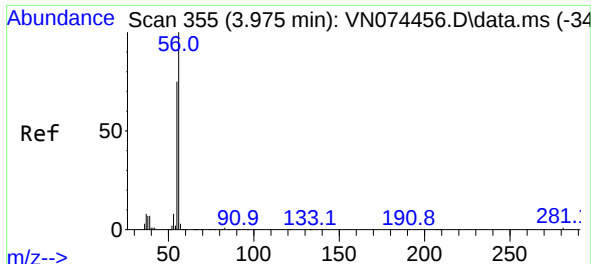
Tgt Ion: 59 Resp: 6434  
Ion Ratio Lower Upper  
59 100  
57 0.9 8.3 12.5#



#12  
1,1-Dichloroethene  
Concen: 0.705 ug/l  
RT: 4.128 min Scan# 381  
Delta R.T. 0.024 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

Tgt Ion: 96 Resp: 72  
Ion Ratio Lower Upper  
96 100  
61 0.0 127.6 191.4#  
98 0.0 51.2 76.8#

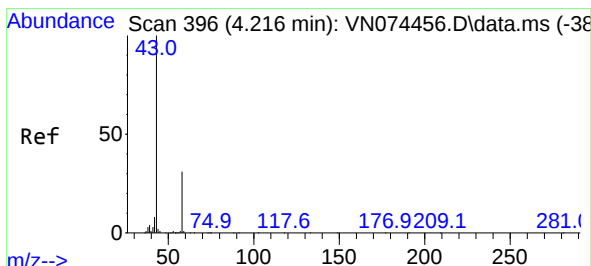
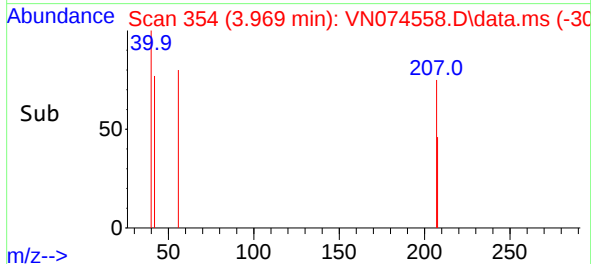
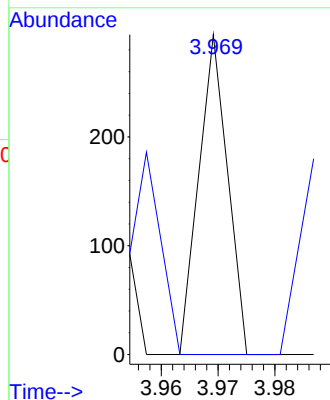
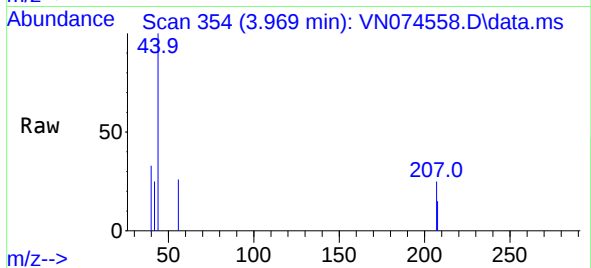




#13  
Acrolein  
Concen: 0.200 ug/l  
RT: 3.969 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

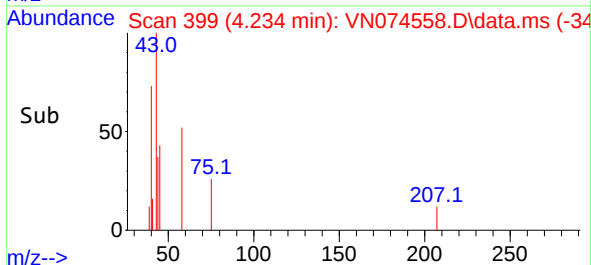
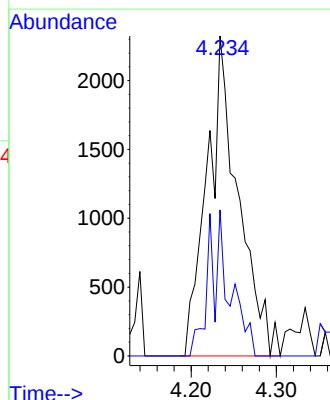
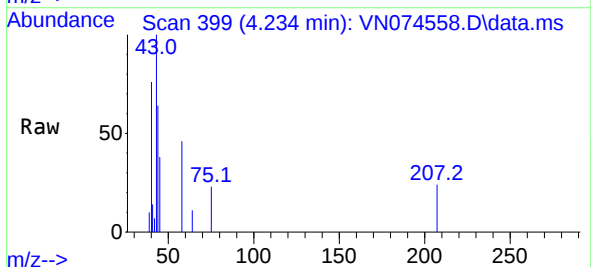
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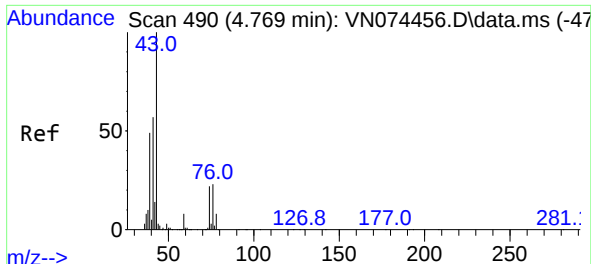
Tgt Ion: 56 Resp: 104  
Ion Ratio Lower Upper  
56 100  
55 60.6 54.8 82.2



#16  
Acetone  
Concen: 2.122 ug/l  
RT: 4.234 min Scan# 399  
Delta R.T. 0.018 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

Tgt Ion: 43 Resp: 5932  
Ion Ratio Lower Upper  
43 100  
58 45.7 26.0 39.0#





#18

Methyl Acetate

Concen: 0.395 ug/l

RT: 4.793 min Scan# 491

Delta R.T. 0.024 min

Lab File: VN074558.D

Acq: 17 Sep 2022 16:04

Instrument :

MSVOA\_N

ClientSampleId :

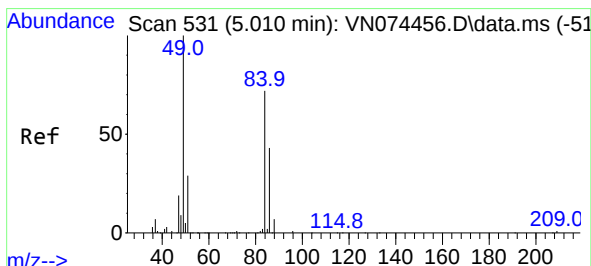
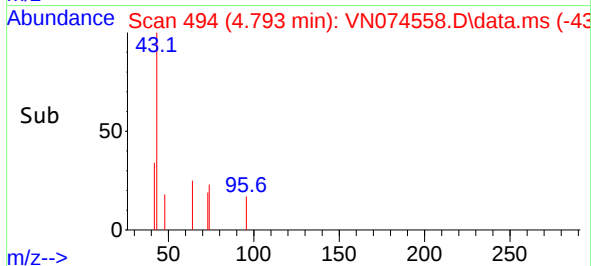
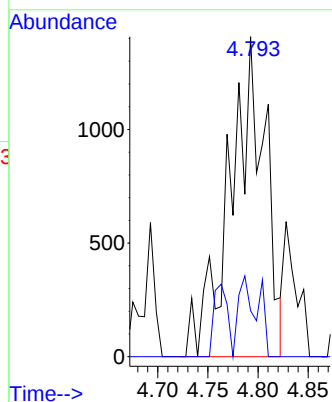
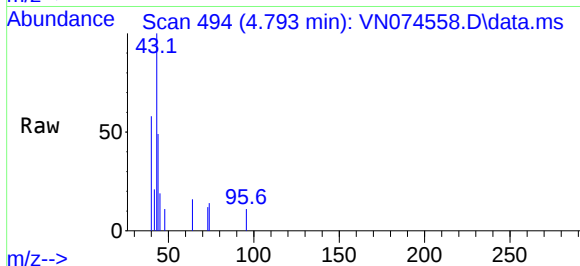
TB090822

Tgt Ion: 43 Resp: 3429

Ion Ratio Lower Upper

43 100

74 13.6 21.6 32.4#



#20

Methylene Chloride

Concen: 0.211 ug/l

RT: 5.016 min Scan# 532

Delta R.T. 0.006 min

Lab File: VN074558.D

Acq: 17 Sep 2022 16:04

Tgt Ion: 84 Resp: 768

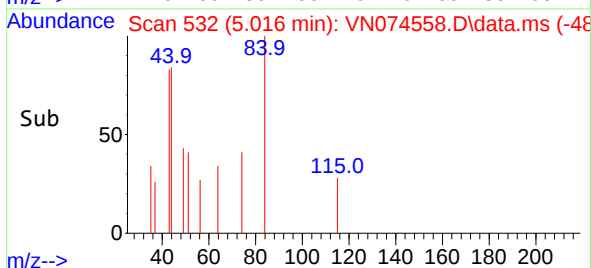
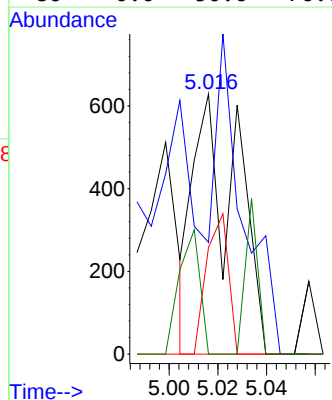
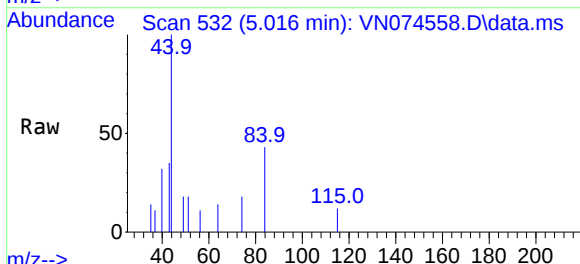
Ion Ratio Lower Upper

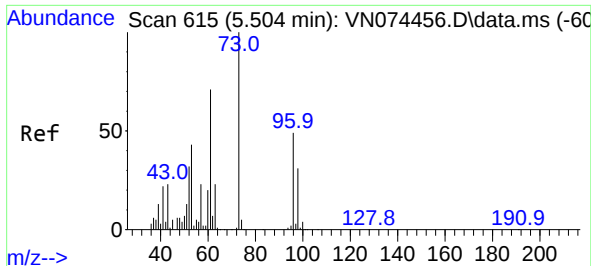
84 100

49 42.9 88.3 132.5#

51 41.0 28.2 42.2

86 0.0 50.6 76.0#

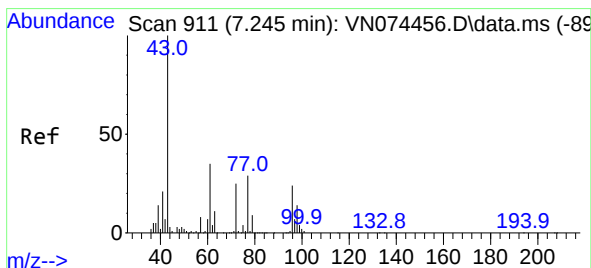
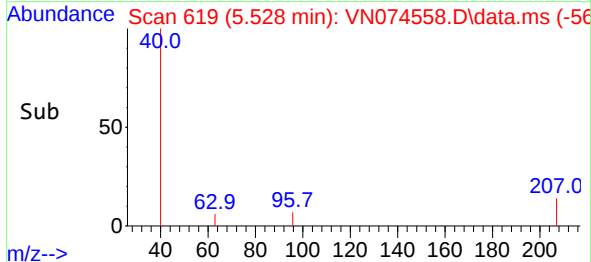
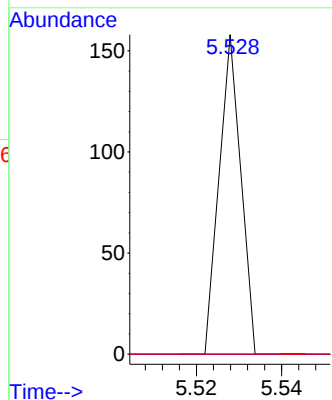
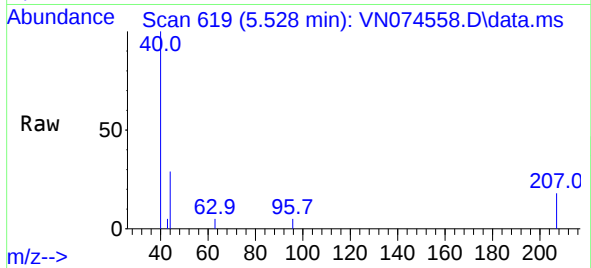




#21  
trans-1,2-Dichloroethene  
Concen: 0.444 ug/l  
RT: 5.528 min Scan# 61  
Delta R.T. 0.024 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

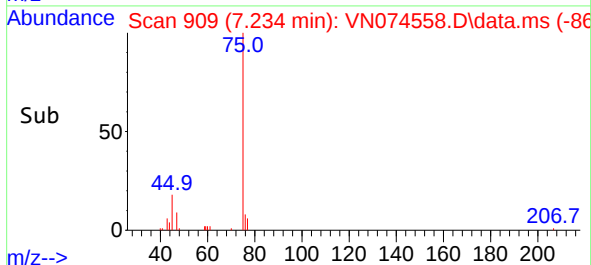
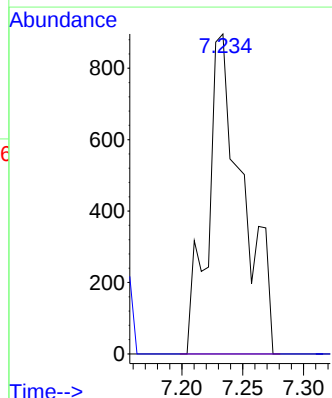
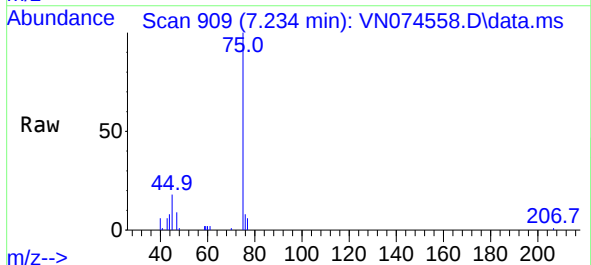
Instrument :  
MSVOA\_N  
ClientSampleId :  
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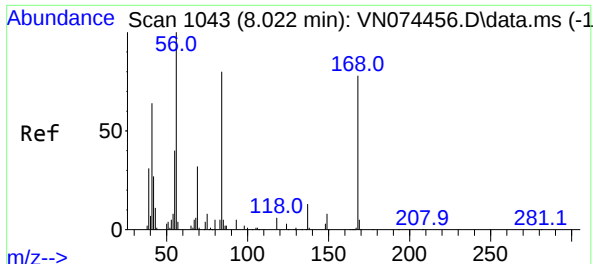
Tgt Ion: 96 Resp: 56  
Ion Ratio Lower Upper  
96 100  
61 0.0 105.8 158.8#  
98 0.0 50.3 75.5#



#26  
2,2-Dichloropropane  
Concen: 0.254 ug/l  
RT: 7.234 min Scan# 909  
Delta R.T. -0.011 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

Tgt Ion: 77 Resp: 1778  
Ion Ratio Lower Upper  
77 100  
97 0.0 11.4 34.2#





#31

Cyclohexane

Concen: 1.104 ug/l

RT: 8.028 min Scan# 1043

Delta R.T. 0.006 min

Lab File: VN074558.D

Acq: 17 Sep 2022 16:04

Instrument :

MSVOA\_N

ClientSampleId :

TB090822

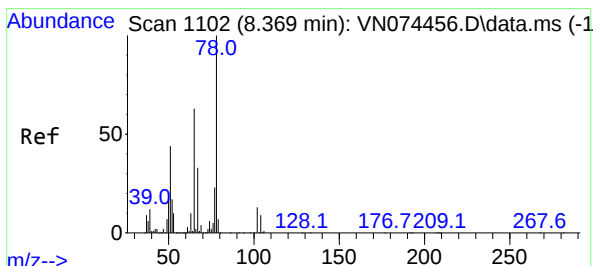
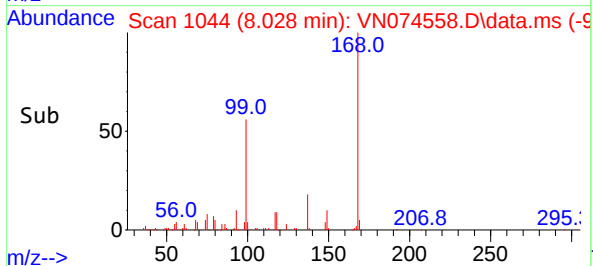
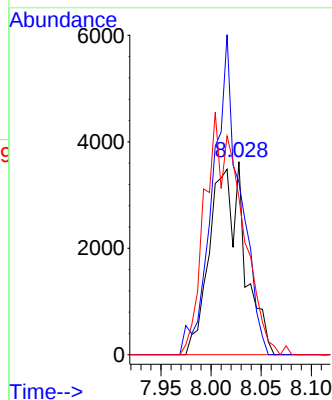
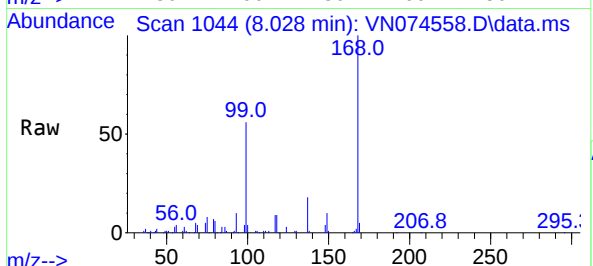
Tgt Ion: 56 Resp: 8562

Ion Ratio Lower Upper

56 100

69 89.5 27.8 41.8#

84 81.4 76.9 115.3



#33

1,2-Dichloroethane-d4

Concen: 48.028 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VN074558.D

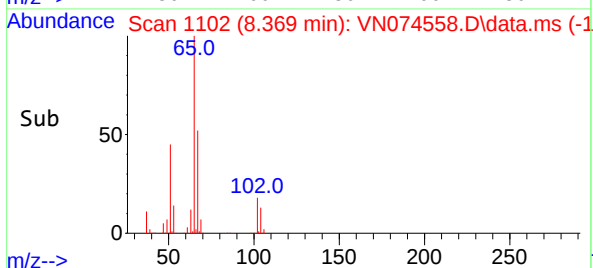
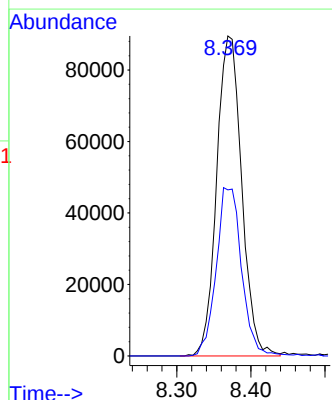
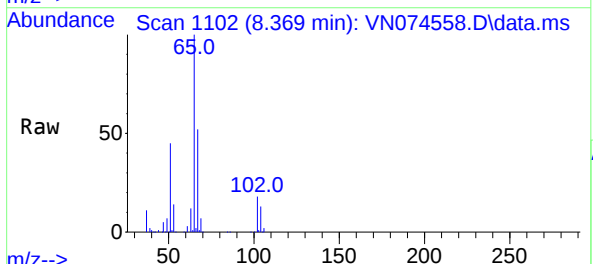
Acq: 17 Sep 2022 16:04

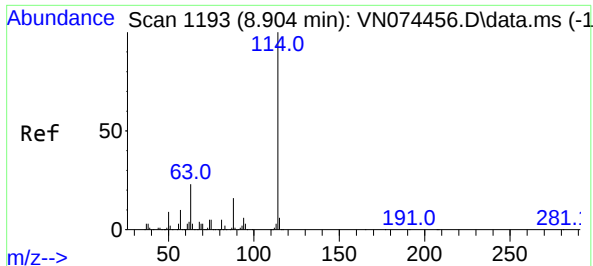
Tgt Ion: 65 Resp: 209781

Ion Ratio Lower Upper

65 100

67 53.5 0.0 104.8



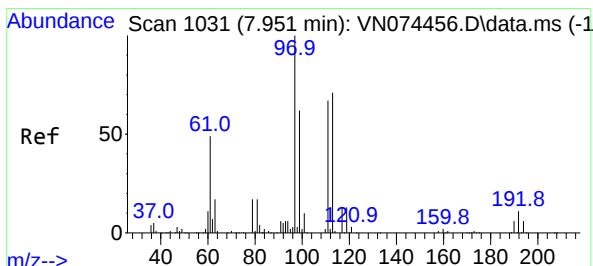
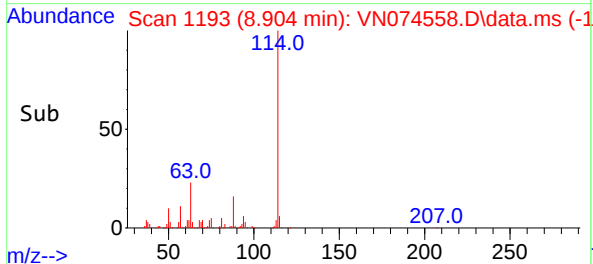
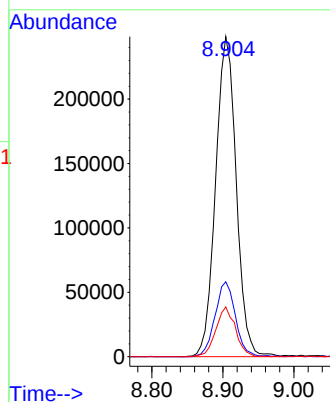
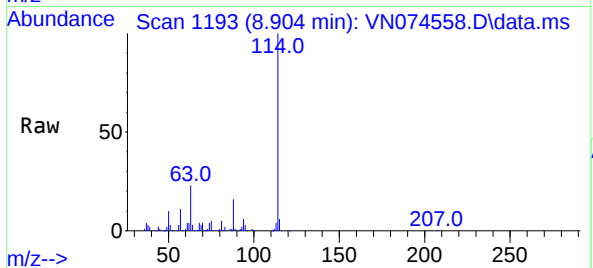


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.904 min Scan# 1193  
Delta R.T. 0.000 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
TB090822

Tgt Ion:114 Resp: 500532

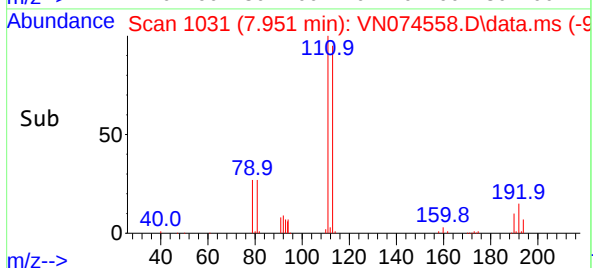
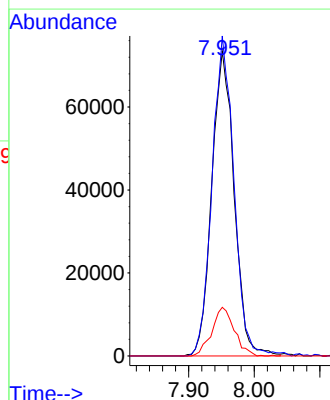
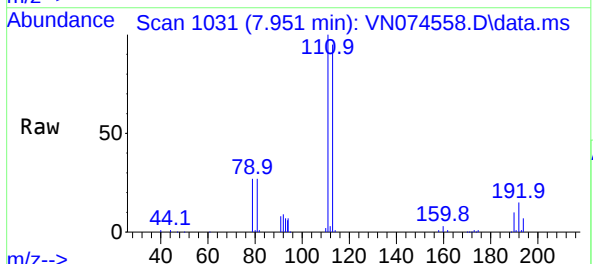
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 23.4  | 0.0   | 40.0  |
| 88  | 15.6  | 0.0   | 32.6  |

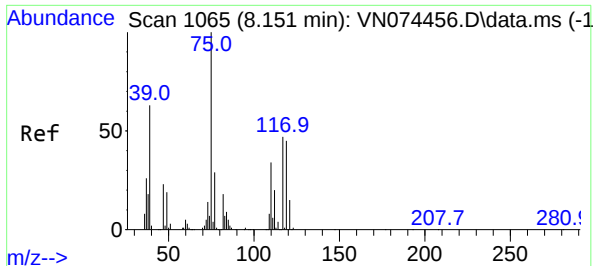


#35  
Dibromofluoromethane  
Concen: 52.254 ug/l  
RT: 7.951 min Scan# 1031  
Delta R.T. 0.000 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

Tgt Ion:113 Resp: 173741

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 103.0 | 81.4  | 122.0 |
| 192 | 16.0  | 17.0  | 25.6  |

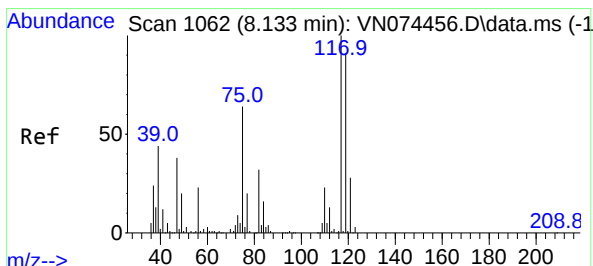
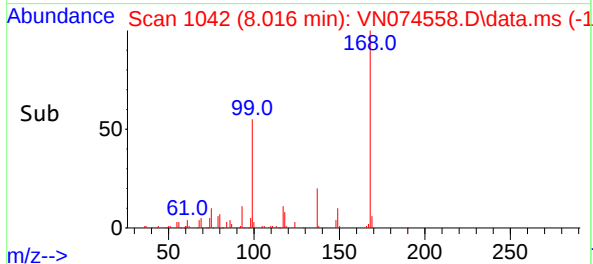
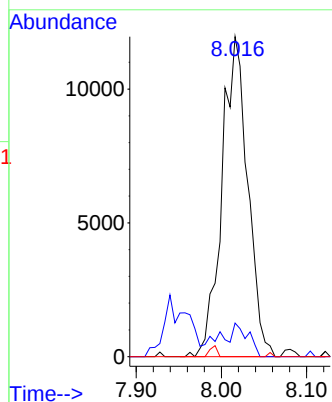
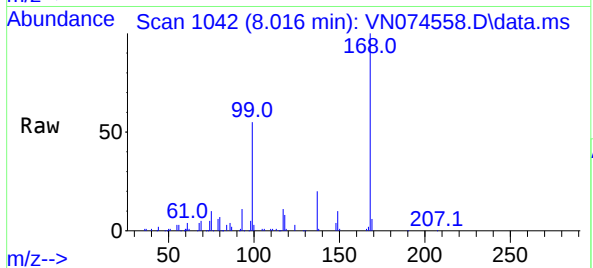




#36  
1,1-Dichloropropene  
Concen: 4.285 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.135 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

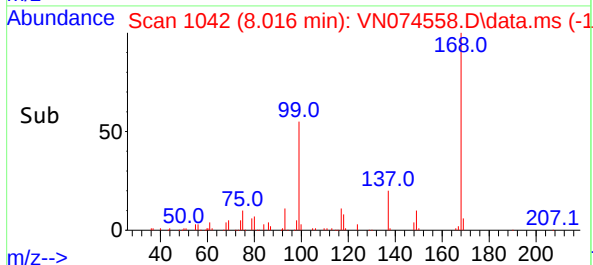
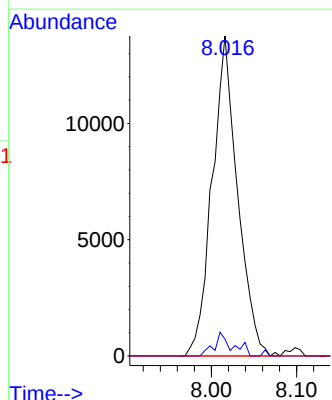
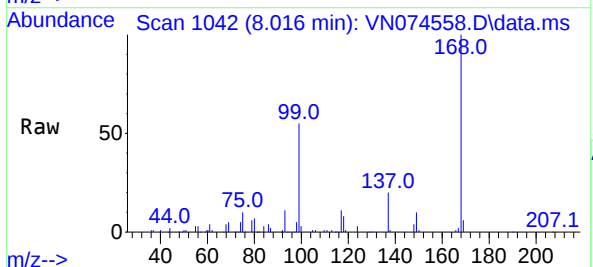
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB090822

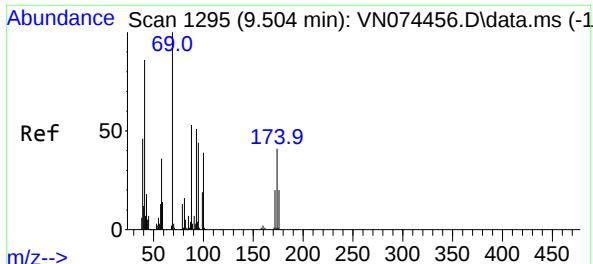
Tgt Ion: 75 Resp: 25220  
Ion Ratio Lower Upper  
75 100  
110 6.1 18.3 54.8#  
77 0.0 25.1 37.7#



#38  
Carbon Tetrachloride  
Concen: 5.244 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.117 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

Tgt Ion: 117 Resp: 28495  
Ion Ratio Lower Upper  
117 100  
119 5.3 75.8 113.8#  
121 0.0 24.6 37.0#

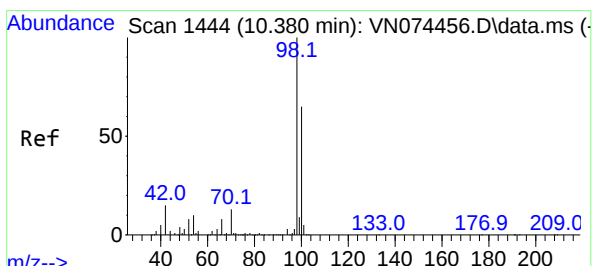
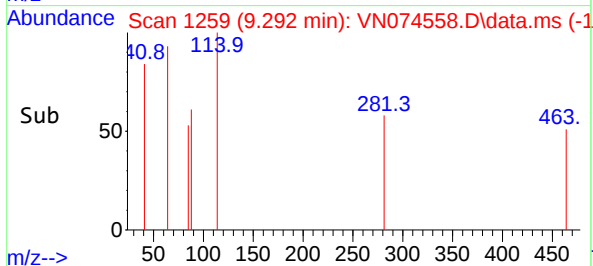
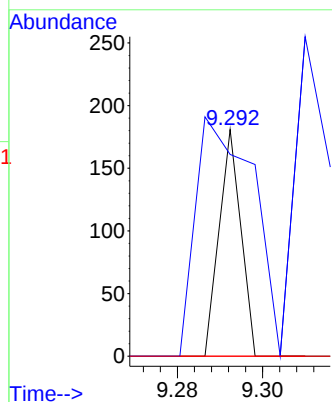
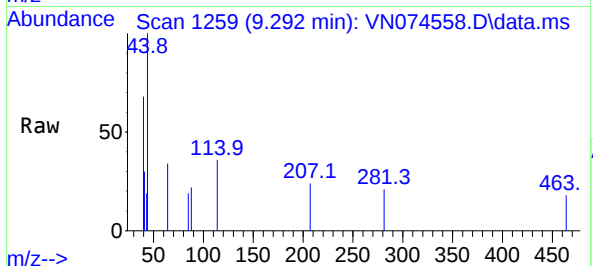




#49  
1,4-Dioxane  
Concen: 0.527 ug/l  
RT: 9.292 min Scan# 11  
Delta R.T. -0.212 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

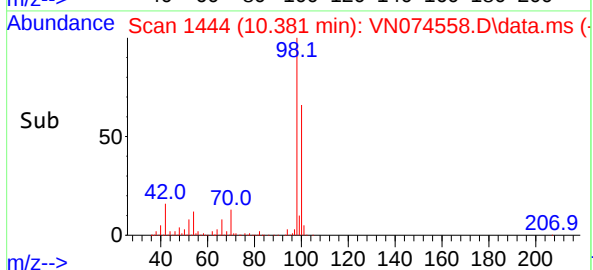
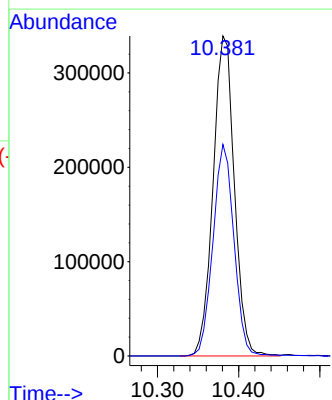
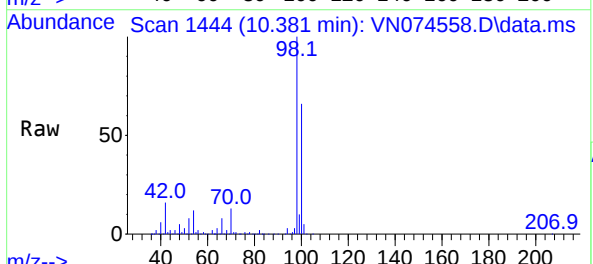
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB090822

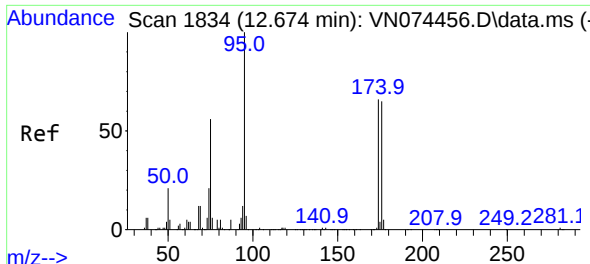
Tgt Ion: 88 Resp: 64  
Ion Ratio Lower Upper  
88 100  
43 278.1 20.2 30.4#  
58 0.0 54.2 81.4#



#50  
Toluene-d8  
Concen: 48.148 ug/l  
RT: 10.381 min Scan# 1444  
Delta R.T. 0.001 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

Tgt Ion: 98 Resp: 619128  
Ion Ratio Lower Upper  
98 100  
100 65.2 52.6 78.8

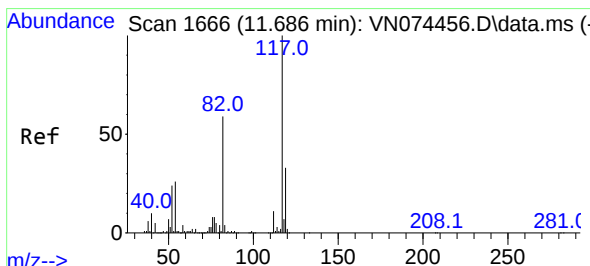
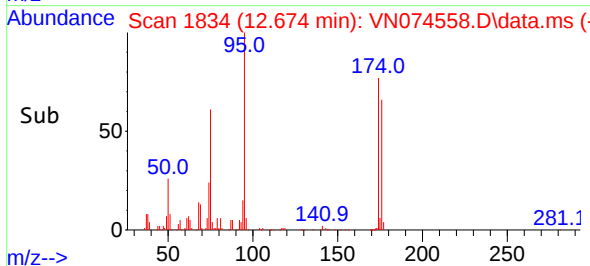
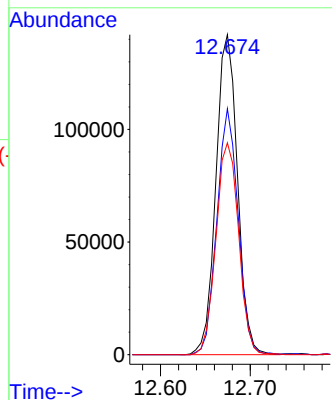
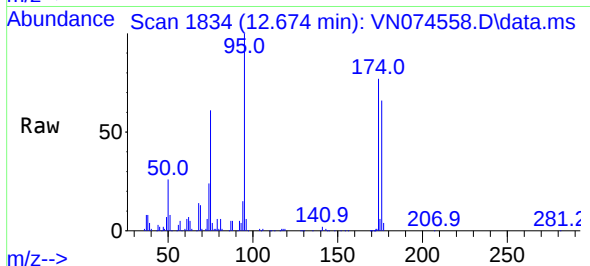




#62  
4-Bromofluorobenzene  
Concen: 53.765 ug/l  
RT: 12.674 min Scan# 1834  
Delta R.T. 0.000 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

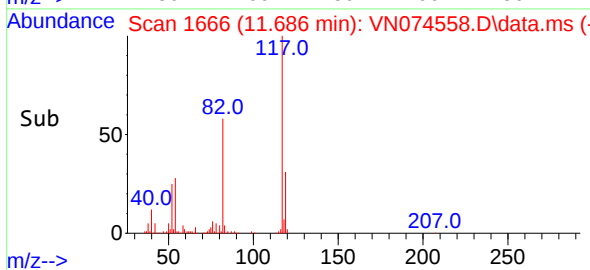
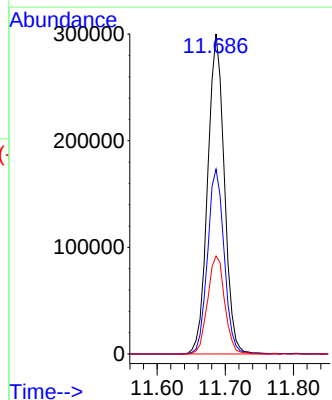
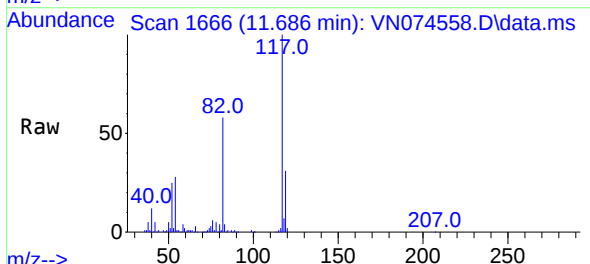
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB090822

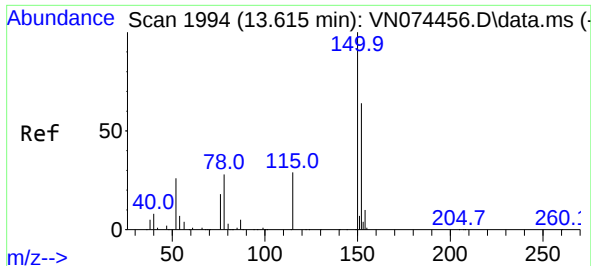
Tgt Ion: 95 Resp: 236787  
Ion Ratio Lower Upper  
95 100  
174 76.1 0.0 167.6  
176 69.6 0.0 163.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.686 min Scan# 1666  
Delta R.T. 0.000 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

Tgt Ion: 117 Resp: 510876  
Ion Ratio Lower Upper  
117 100  
82 57.8 44.2 66.2  
119 30.6 25.4 38.0

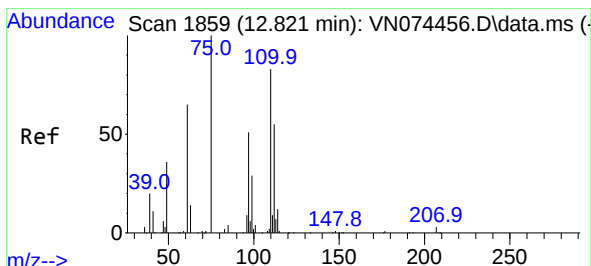
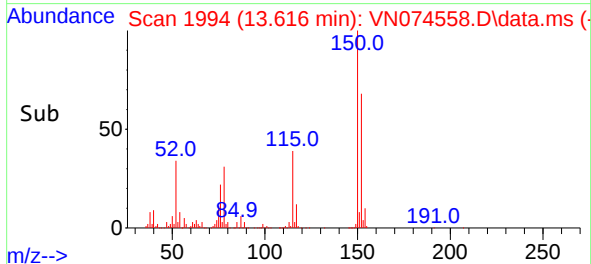
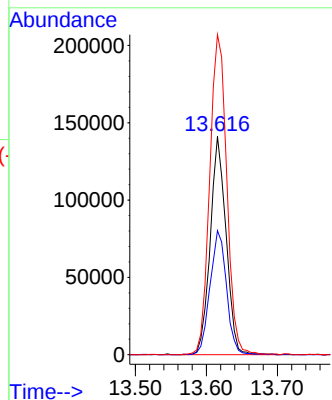
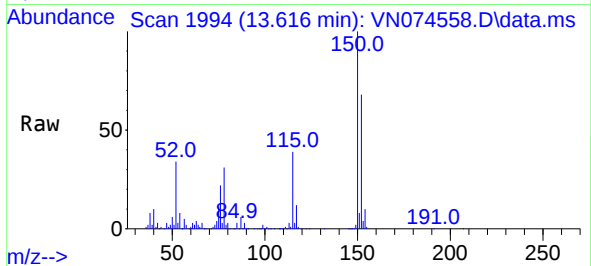




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.616 min Scan# 1994  
Delta R.T. 0.001 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

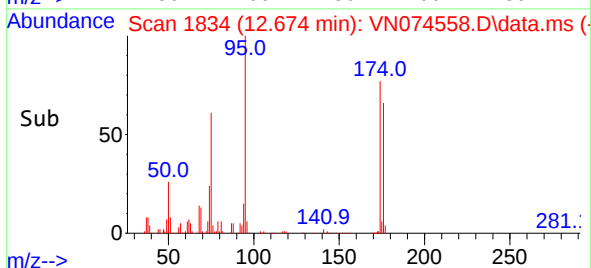
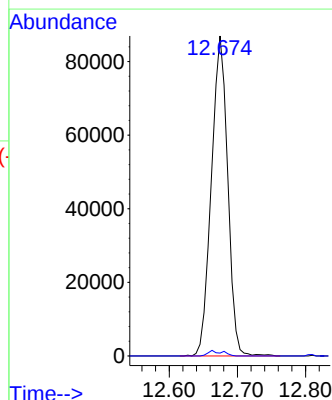
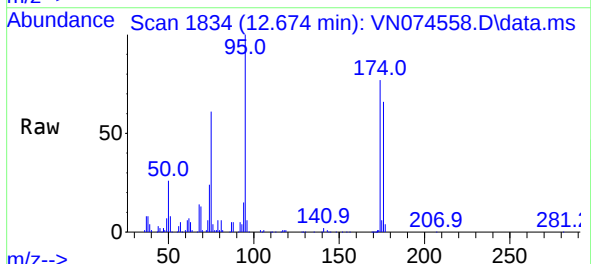
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB090822

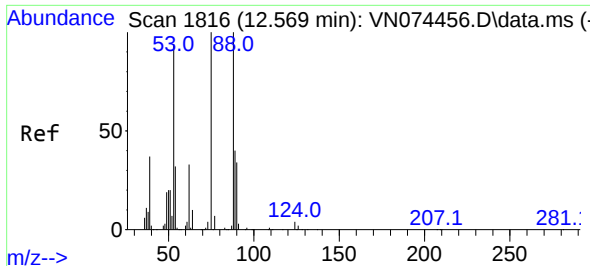
Tgt Ion:152 Resp: 218469  
Ion Ratio Lower Upper  
152 100  
115 59.3 28.9 86.7  
150 158.2 0.0 356.2



#76  
1,2,3-Trichloropropane  
Concen: 21.557 ug/l  
RT: 12.674 min Scan# 1834  
Delta R.T. -0.147 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

Tgt Ion: 75 Resp: 144966  
Ion Ratio Lower Upper  
75 100  
77 1.5 98.5 295.5#

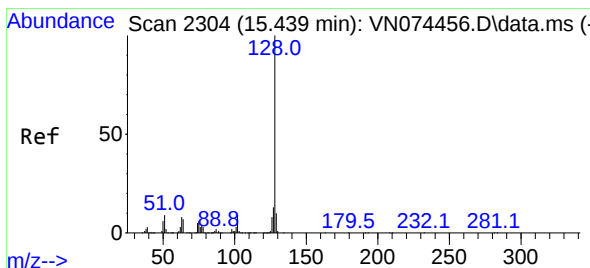
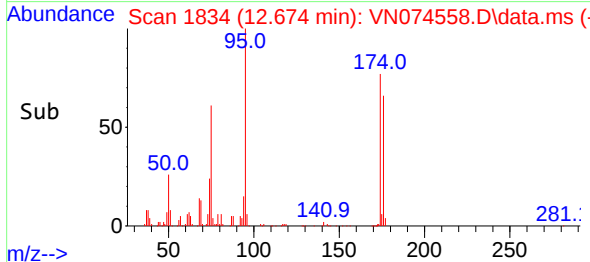
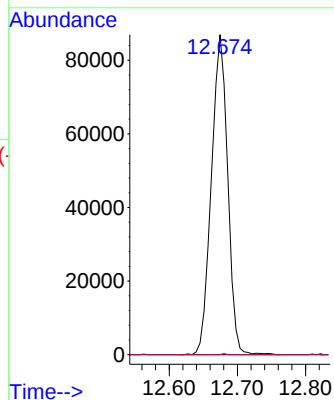
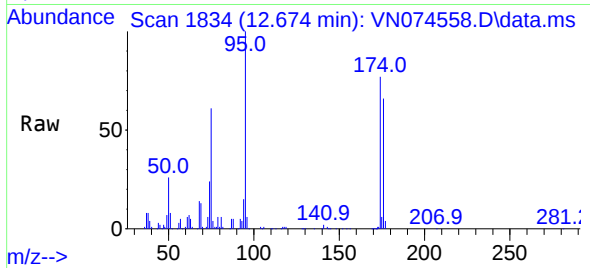




#81  
trans-1,4-Dichloro-2-butene  
Concen: 46.528 ug/l  
RT: 12.674 min Scan# 1816  
Delta R.T. 0.105 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
TB090822

Tgt Ion: 75 Resp: 144966  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.0 117.0#  
89 0.1 37.2 55.8#



#95  
Naphthalene  
Concen: 1.639 ug/l  
RT: 15.433 min Scan# 2303  
Delta R.T. -0.006 min  
Lab File: VN074558.D  
Acq: 17 Sep 2022 16:04

Tgt Ion:128 Resp: 968  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 8.8 8.6 13.0

