

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091622\  
 Data File : VN074516.D  
 Acq On : 16 Sep 2022 17:38  
 Operator : JC\MD  
 Sample : N4508-13  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TB01-090222

Quant Time: Sep 16 22:34:35 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

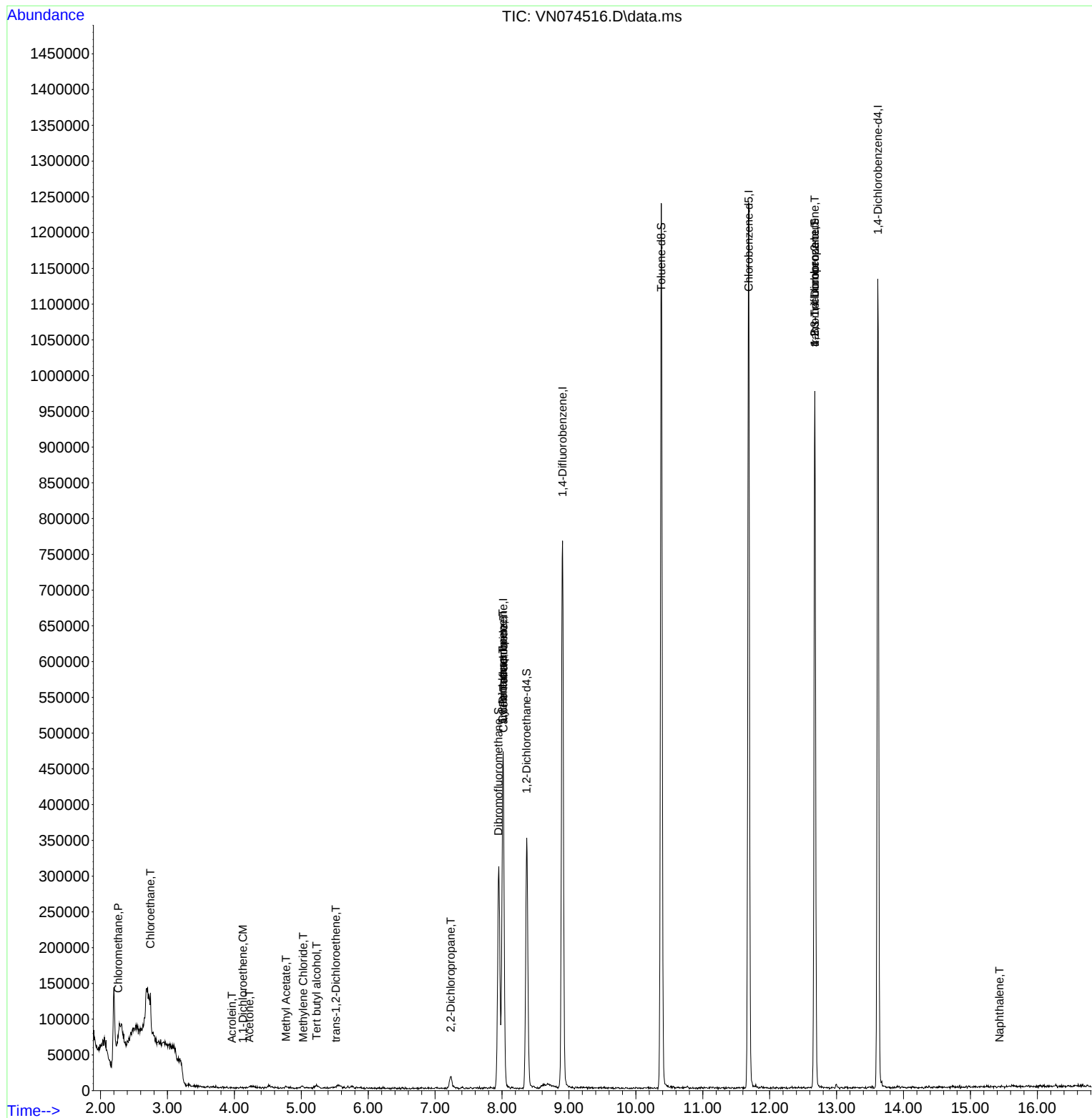
| Compound                      | R.T.   | QIon           | Response | Conc   | Units    | Dev(Min) |
|-------------------------------|--------|----------------|----------|--------|----------|----------|
| -----                         |        |                |          |        |          |          |
| Internal Standards            |        |                |          |        |          |          |
| 1) Pentafluorobenzene         | 8.016  | 168            | 326501   | 50.000 | ug/l     | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.904  | 114            | 649389   | 50.000 | ug/l     | 0.00     |
| 63) Chlorobenzene-d5          | 11.686 | 117            | 621632   | 50.000 | ug/l     | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.616 | 152            | 271259   | 50.000 | ug/l     | 0.00     |
| System Monitoring Compounds   |        |                |          |        |          |          |
| 33) 1,2-Dichloroethane-d4     | 8.369  | 65             | 265777   | 47.975 | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 74 - 125 | Recovery | =      | 95.960%  |          |
| 35) Dibromofluoromethane      | 7.945  | 113            | 219418   | 50.865 | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | =      | 101.720% |          |
| 50) Toluene-d8                | 10.381 | 98             | 791192   | 47.425 | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 86 - 113 | Recovery | =      | 94.860%  |          |
| 62) 4-Bromofluorobenzene      | 12.675 | 95             | 305677   | 53.498 | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 83 - 123 | Recovery | =      | 107.000% |          |
| Target Compounds              |        |                |          |        |          |          |
|                               |        |                |          |        | Qvalue   |          |
| 3) Chloromethane              | 2.263  | 50             | 1746     | 0.549  | ug/l #   | 71       |
| 6) Chloroethane               | 2.746  | 64             | 16177    | 3.703  | ug/l #   | 42       |
| 11) Tert butyl alcohol        | 5.228  | 59             | 3702     | 2.051  | ug/l #   | 79       |
| 12) 1,1-Dichloroethene        | 4.128  | 96             | 96       | 0.707  | ug/l #   | 1        |
| 13) Acrolein                  | 3.963  | 56             | 254      | 0.385  | ug/l #   | 57       |
| 16) Acetone                   | 4.222  | 43             | 2303     | 0.650  | ug/l #   | 75       |
| 18) Methyl Acetate            | 4.769  | 43             | 4974     | 0.452  | ug/l #   | 73       |
| 20) Methylene Chloride        | 5.028  | 84             | 1698     | 0.344  | ug/l #   | 69       |
| 21) trans-1,2-Dichloroethene  | 5.516  | 96             | 66       | 0.443  | ug/l #   | 1        |
| 26) 2,2-Dichloropropane       | 7.234  | 77             | 1926     | 0.217  | ug/l #   | 53       |
| 31) Cyclohexane               | 8.010  | 56             | 10739    | 1.092  | ug/l #   | 43       |
| 36) 1,1-Dichloropropene       | 8.010  | 75             | 33679    | 4.411  | ug/l #   | 49       |
| 38) Carbon Tetrachloride      | 8.022  | 117            | 35569    | 5.045  | ug/l #   | 16       |
| 76) 1,2,3-Trichloropropane    | 12.675 | 75             | 182068   | 21.806 | ug/l #   | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.675 | 75             | 182068   | 47.064 | ug/l #   | 10       |
| 95) Naphthalene               | 15.433 | 128            | 156      | 1.595  | ug/l #   | 69       |
| -----                         |        |                |          |        |          |          |

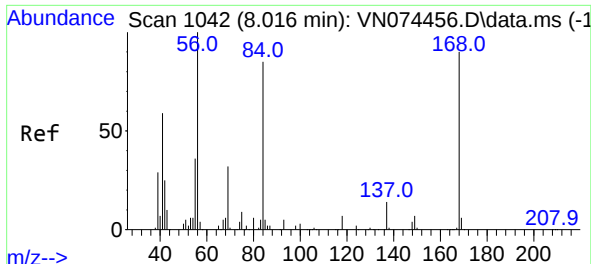
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091622\  
Data File : VN074516.D  
Acq On : 16 Sep 2022 17:38  
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Sample : N4508-13  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TB01-090222

Quant Time: Sep 16 22:34:35 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

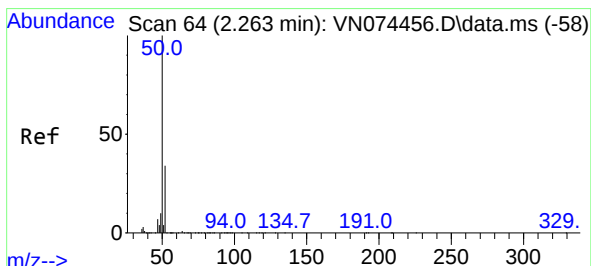
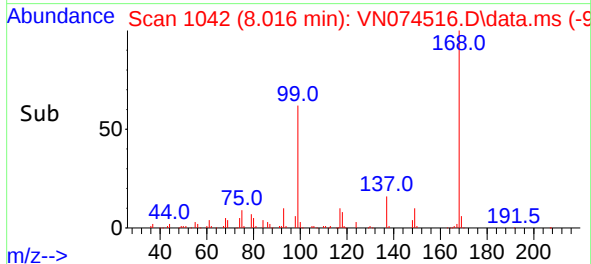
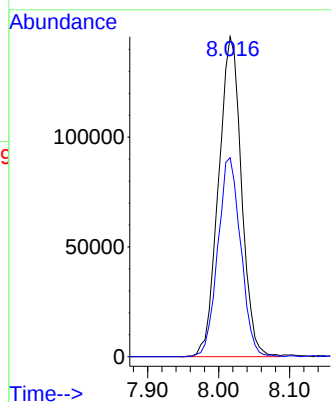
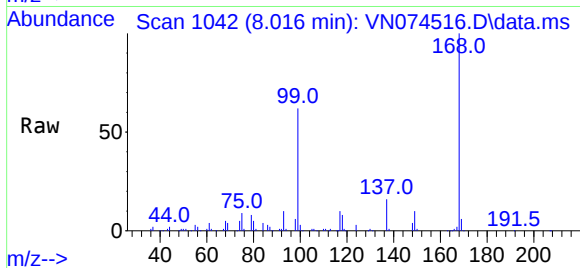




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.000 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

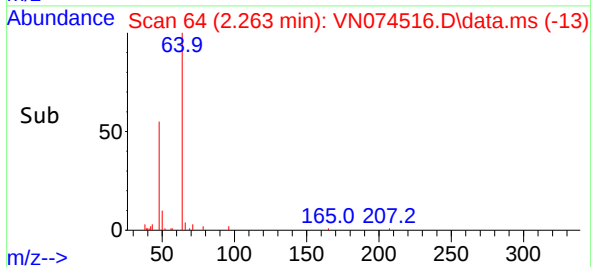
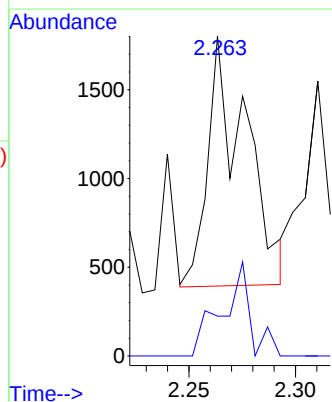
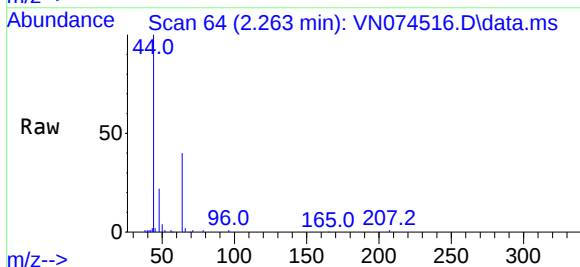
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB01-090222

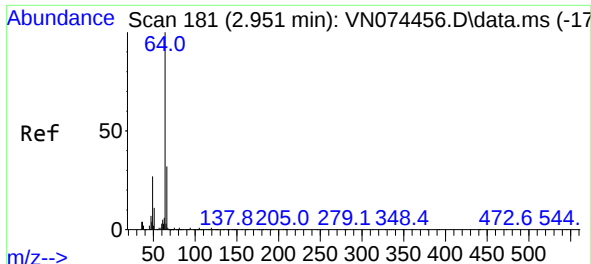
Tgt Ion:168 Resp: 326501  
Ion Ratio Lower Upper  
168 100  
99 62.2 42.3 63.5



#3  
Chloromethane  
Concen: 0.549 ug/l  
RT: 2.263 min Scan# 64  
Delta R.T. 0.000 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

Tgt Ion: 50 Resp: 1746  
Ion Ratio Lower Upper  
50 100  
52 16.1 25.7 38.5#

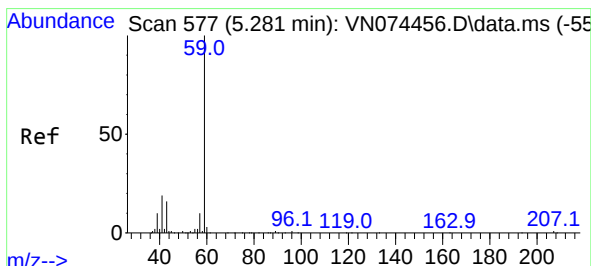
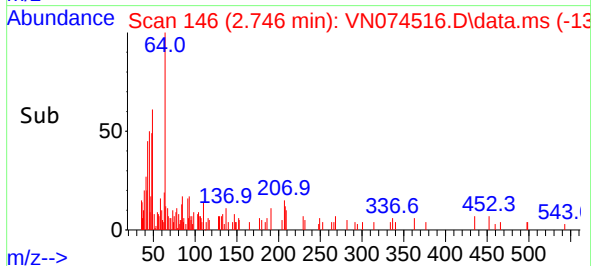
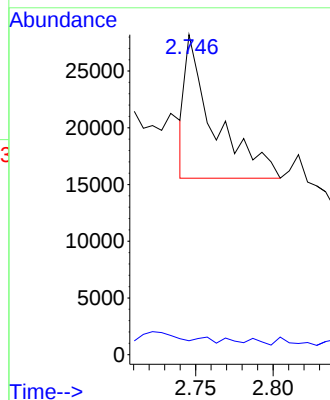
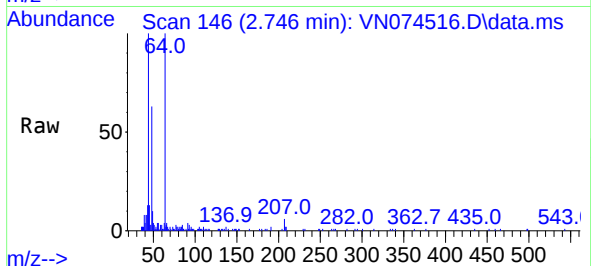




#6  
Chloroethane  
Concen: 3.703 ug/l  
RT: 2.746 min Scan# 14  
Delta R.T. -0.205 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

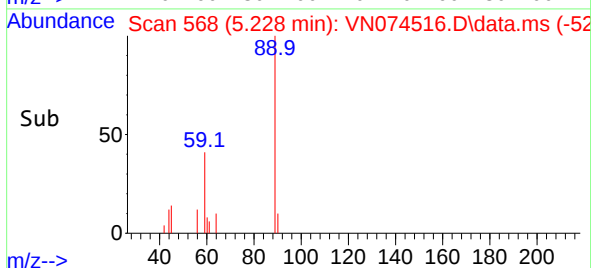
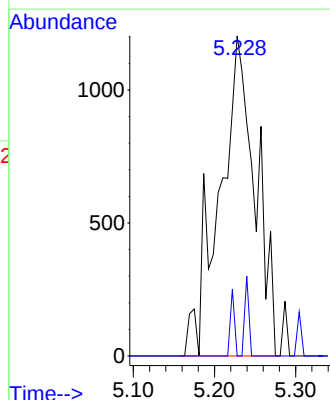
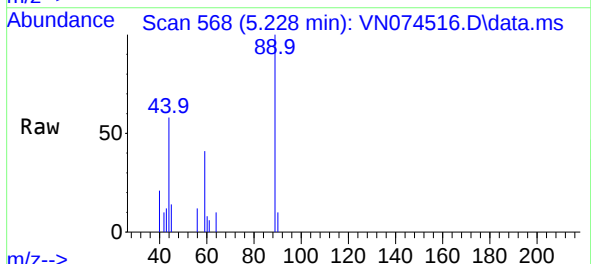
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB01-090222

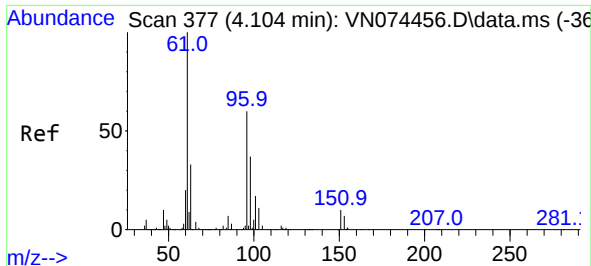
Tgt Ion: 64 Resp: 16177  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.2 39.4#



#11  
Tert butyl alcohol  
Concen: 2.051 ug/l  
RT: 5.228 min Scan# 568  
Delta R.T. -0.053 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

Tgt Ion: 59 Resp: 3702  
Ion Ratio Lower Upper  
59 100  
57 2.4 8.3 12.5#

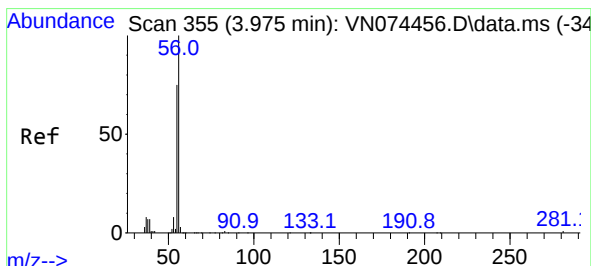
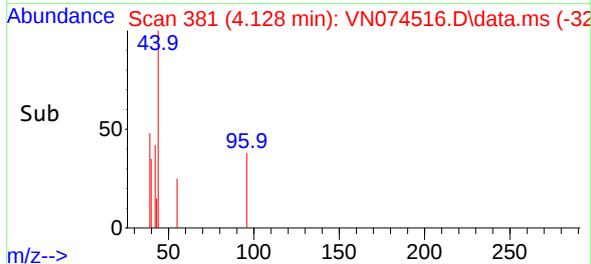
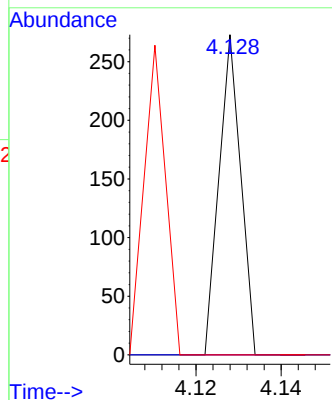
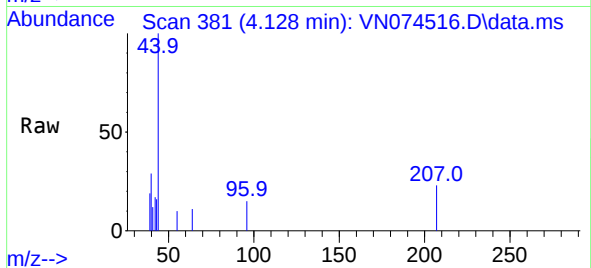




#12  
1,1-Dichloroethene  
Concen: 0.707 ug/l  
RT: 4.128 min Scan# 31  
Delta R.T. 0.024 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

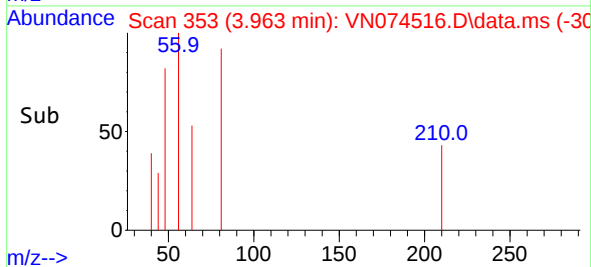
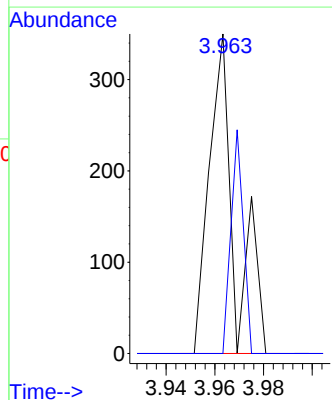
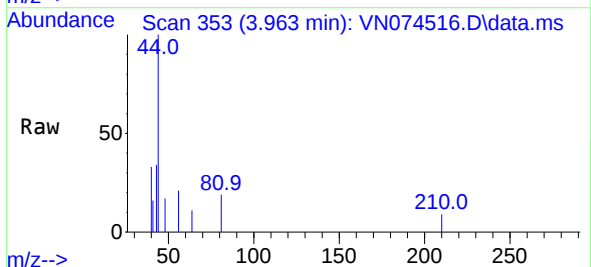
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB01-090222

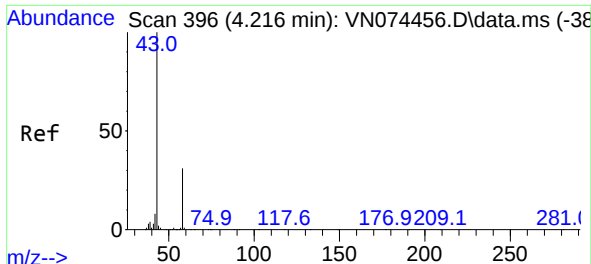
Tgt Ion: 96 Resp: 96  
Ion Ratio Lower Upper  
96 100  
61 0.0 127.6 191.4#  
98 0.0 51.2 76.8#



#13  
Acrolein  
Concen: 0.385 ug/l  
RT: 3.963 min Scan# 353  
Delta R.T. -0.012 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

Tgt Ion: 56 Resp: 254  
Ion Ratio Lower Upper  
56 100  
55 33.9 54.8 82.2#

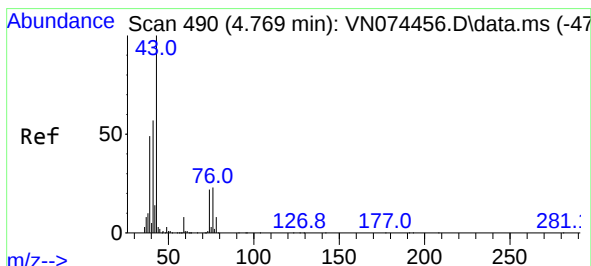
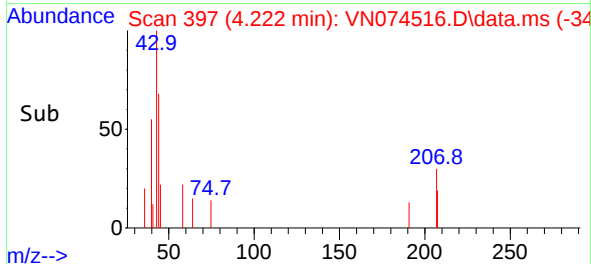
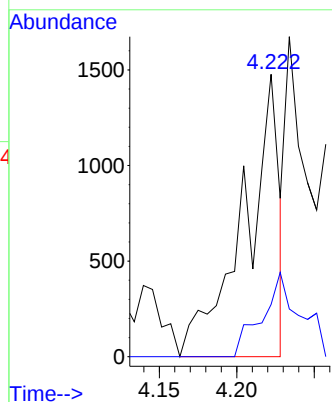
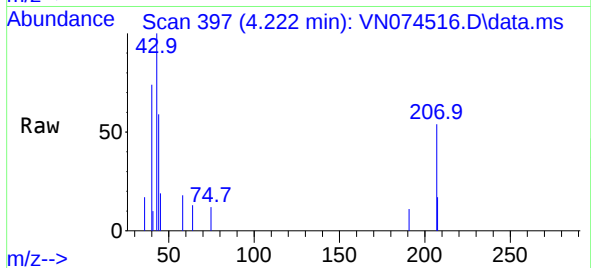




#16  
Acetone  
Concen: 0.650 ug/l  
RT: 4.222 min Scan# 396  
Delta R.T. 0.006 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

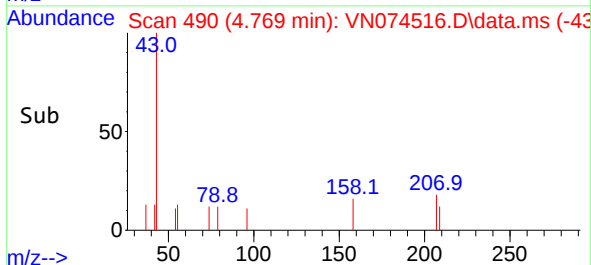
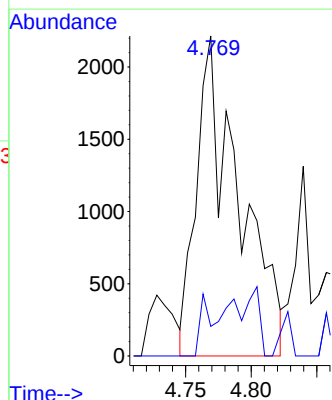
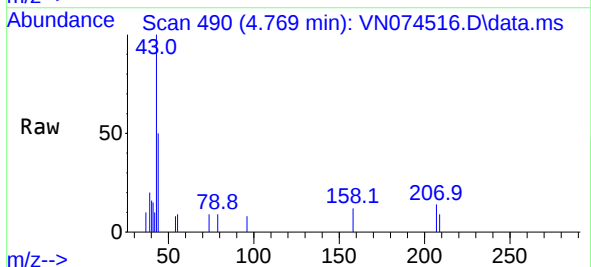
Instrument :  
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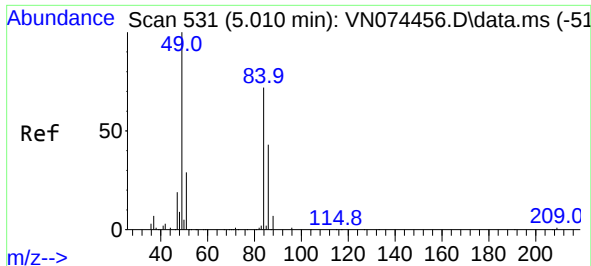
Tgt Ion: 43 Resp: 2303  
Ion Ratio Lower Upper  
43 100  
58 18.5 26.0 39.0#



#18  
Methyl Acetate  
Concen: 0.452 ug/l  
RT: 4.769 min Scan# 490  
Delta R.T. 0.000 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

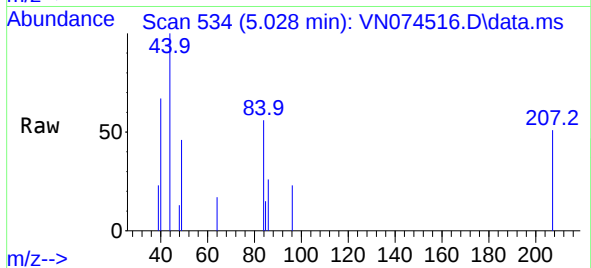
Tgt Ion: 43 Resp: 4974  
Ion Ratio Lower Upper  
43 100  
74 13.1 21.6 32.4#





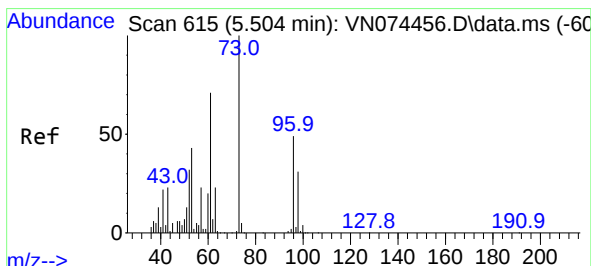
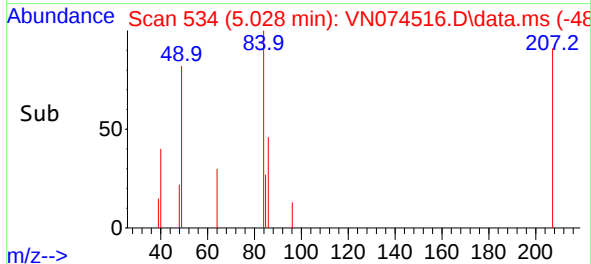
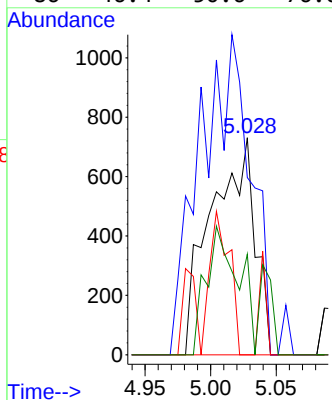
#20  
Methylene Chloride  
Concen: 0.344 ug/l  
RT: 5.028 min Scan# 51  
Delta R.T. 0.018 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
TB01-090222



Tgt Ion: 84 Resp: 1698

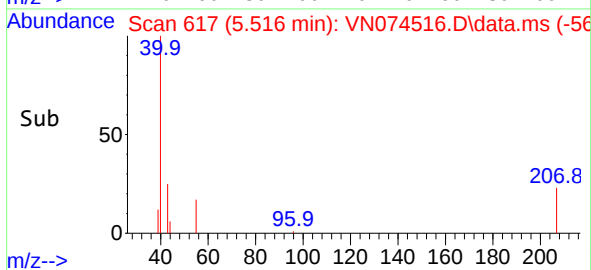
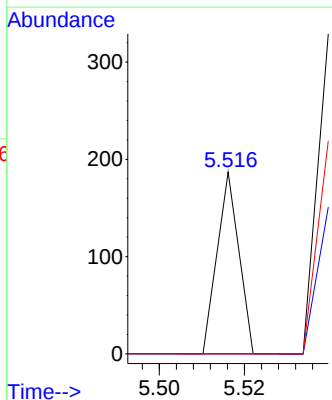
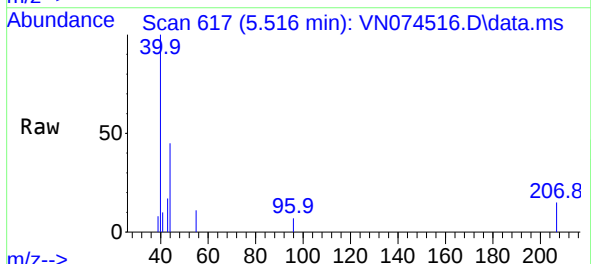
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 81.7  | 88.3  | 132.5# |
| 51  | 0.0   | 28.2  | 42.2#  |
| 86  | 46.4  | 50.6  | 76.0#  |

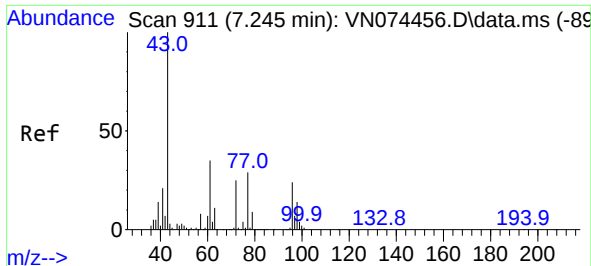


#21  
trans-1,2-Dichloroethene  
Concen: 0.443 ug/l  
RT: 5.516 min Scan# 617  
Delta R.T. 0.012 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

Tgt Ion: 96 Resp: 66

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 96  | 100   |       |        |
| 61  | 0.0   | 105.8 | 158.8# |
| 98  | 0.0   | 50.3  | 75.5#  |

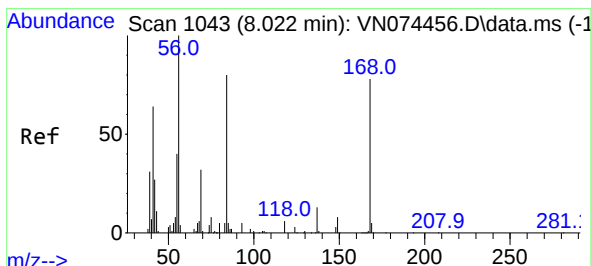
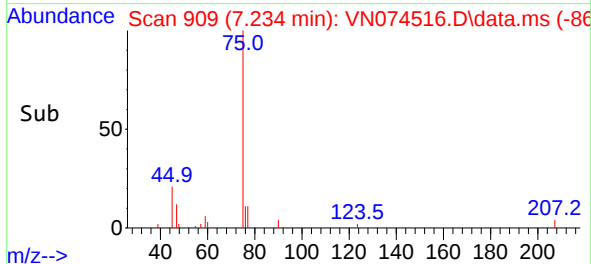
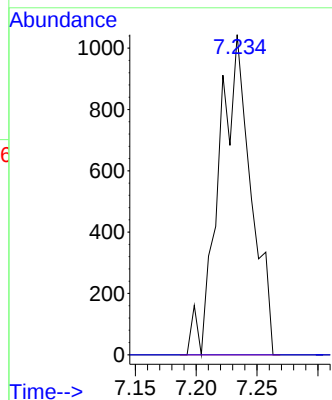
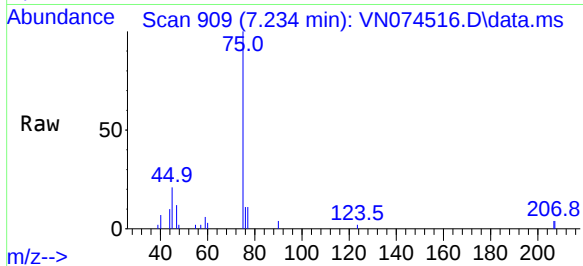




#26  
2,2-Dichloropropane  
Concen: 0.217 ug/l  
RT: 7.234 min Scan# 90  
Delta R.T. -0.011 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

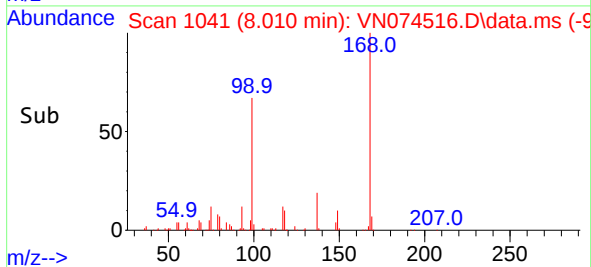
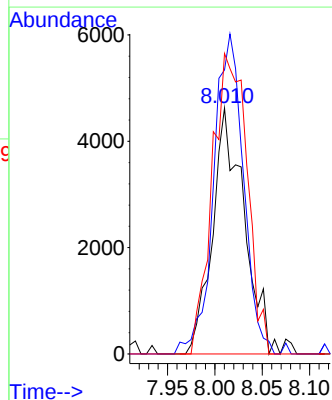
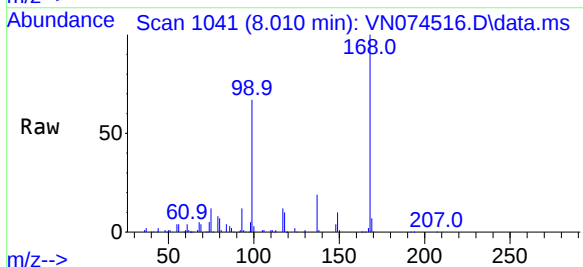
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB01-090222

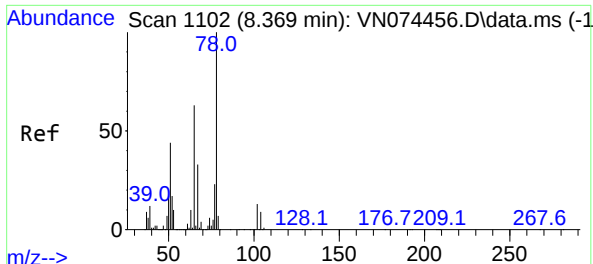
Tgt Ion: 77 Resp: 1926  
Ion Ratio Lower Upper  
77 100  
97 0.0 11.4 34.2#



#31  
Cyclohexane  
Concen: 1.092 ug/l  
RT: 8.010 min Scan# 1041  
Delta R.T. -0.012 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

Tgt Ion: 56 Resp: 10739  
Ion Ratio Lower Upper  
56 100  
69 115.5 27.8 41.8#  
84 122.2 76.9 115.3#

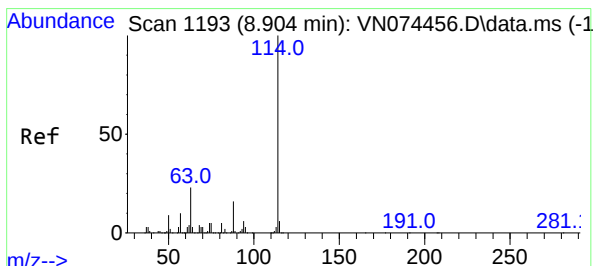
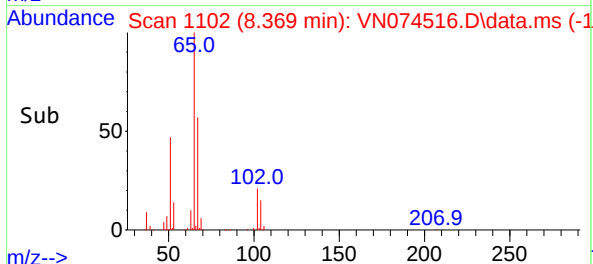
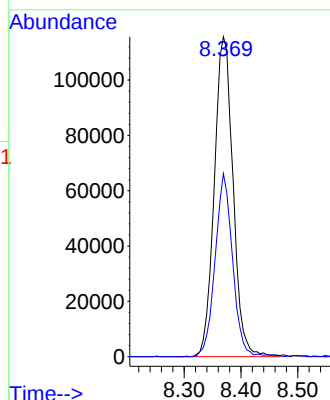
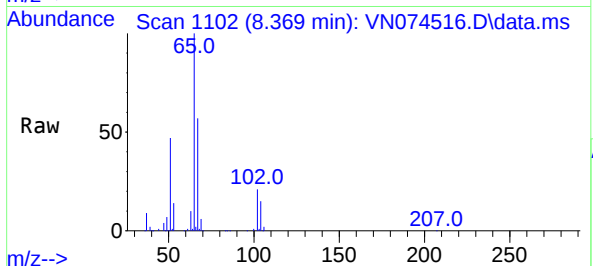




#33  
1,2-Dichloroethane-d4  
Concen: 47.975 ug/l  
RT: 8.369 min Scan# 1102  
Delta R.T. -0.000 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

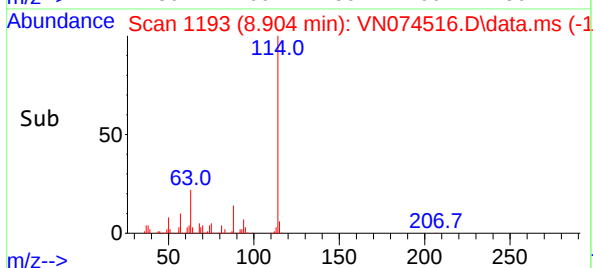
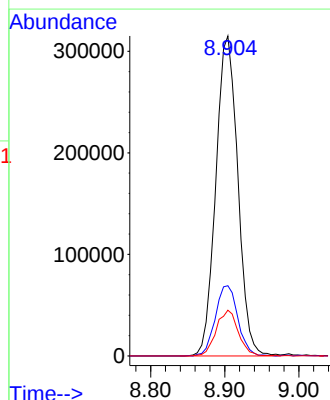
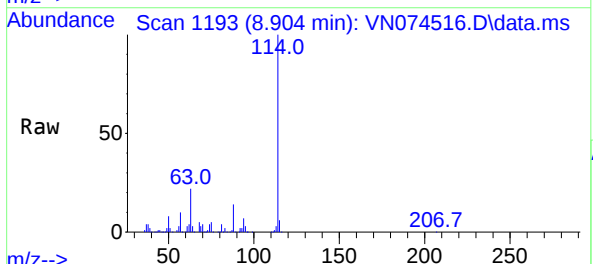
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB01-090222

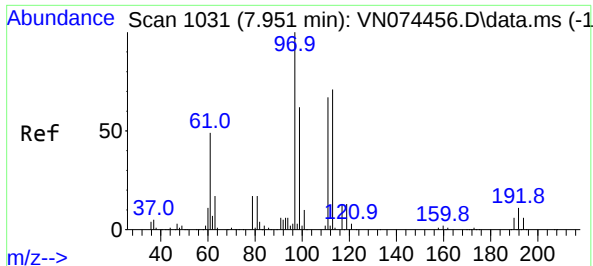
Tgt Ion: 65 Resp: 265777  
Ion Ratio Lower Upper  
65 100  
67 53.4 0.0 104.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.904 min Scan# 1193  
Delta R.T. 0.000 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

Tgt Ion: 114 Resp: 649389  
Ion Ratio Lower Upper  
114 100  
63 22.0 0.0 40.0  
88 14.3 0.0 32.6

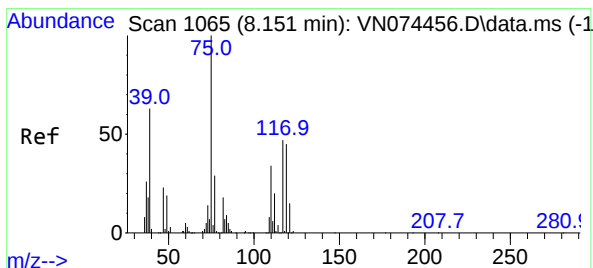
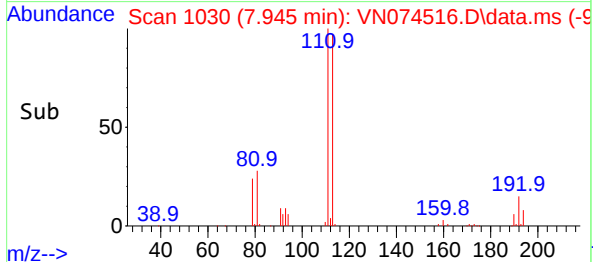
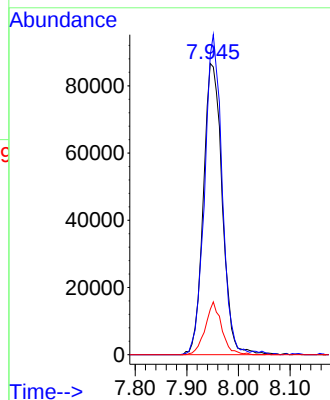
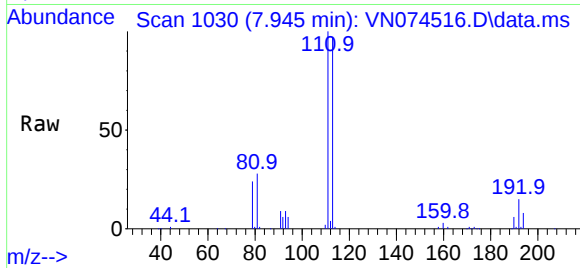




#35  
Dibromofluoromethane  
Concen: 50.865 ug/l  
RT: 7.945 min Scan# 1041  
Delta R.T. -0.006 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

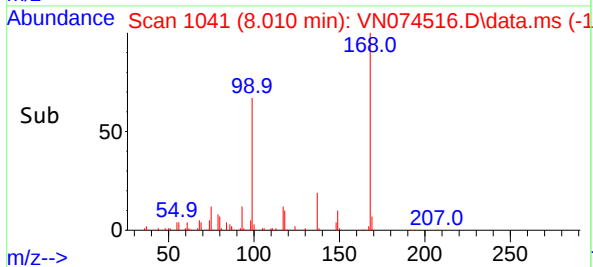
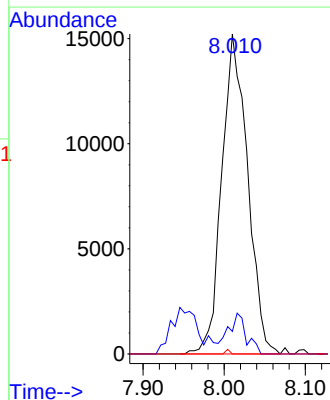
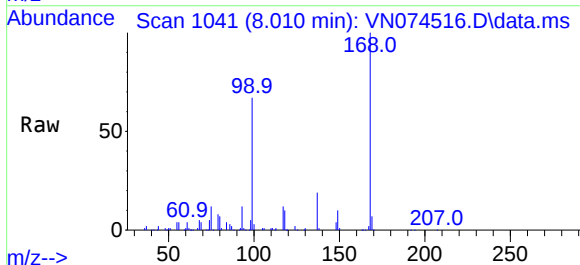
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB01-090222

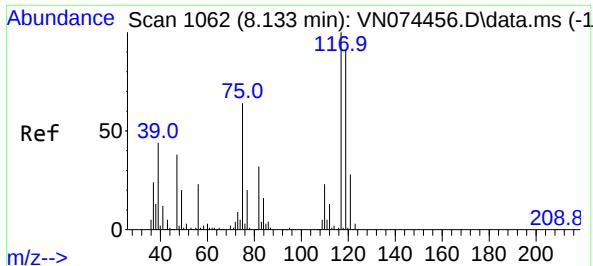
Tgt Ion:113 Resp: 219418  
Ion Ratio Lower Upper  
113 100  
111 101.7 81.4 122.0  
192 15.8 17.0 25.6#



#36  
1,1-Dichloropropene  
Concen: 4.411 ug/l  
RT: 8.010 min Scan# 1041  
Delta R.T. -0.141 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

Tgt Ion: 75 Resp: 33679  
Ion Ratio Lower Upper  
75 100  
110 8.9 18.3 54.8#  
77 0.2 25.1 37.7#

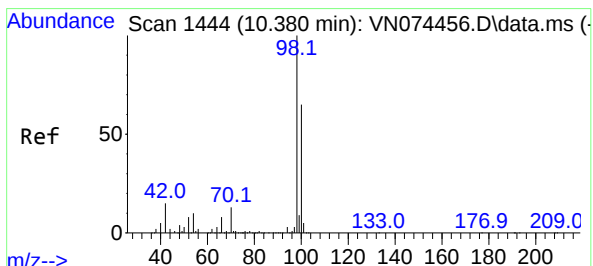
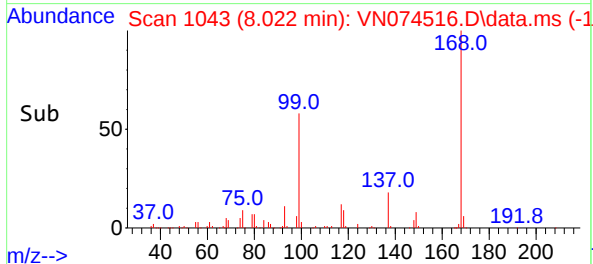
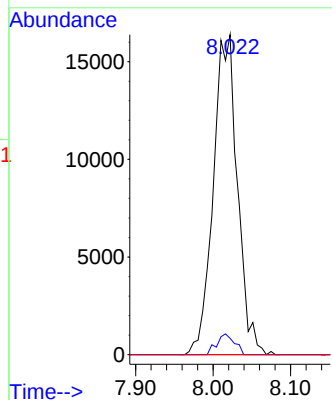
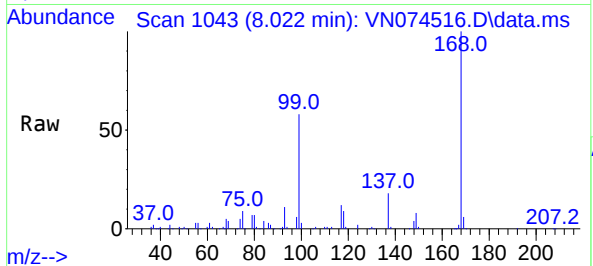




#38  
Carbon Tetrachloride  
Concen: 5.045 ug/l  
RT: 8.022 min Scan# 1043  
Delta R.T. -0.111 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

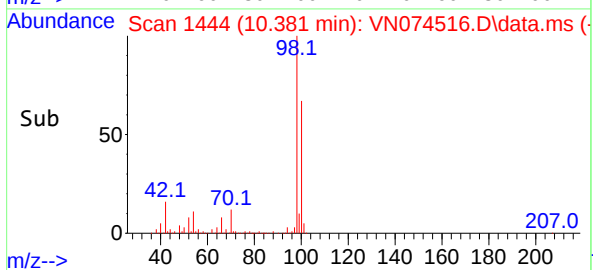
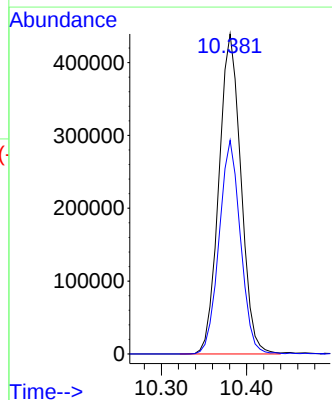
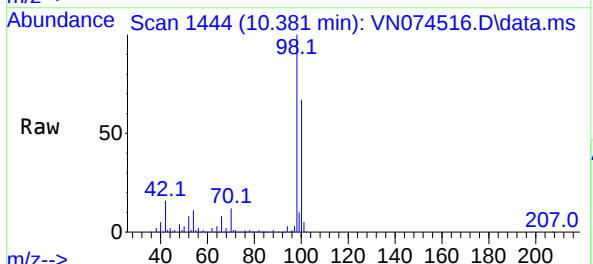
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB01-090222

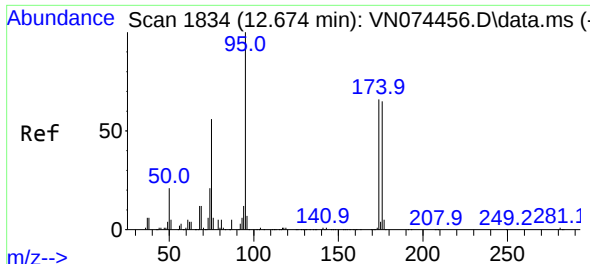
Tgt Ion:117 Resp: 35569  
Ion Ratio Lower Upper  
117 100  
119 5.1 75.8 113.8#  
121 0.0 24.6 37.0#



#50  
Toluene-d8  
Concen: 47.425 ug/l  
RT: 10.381 min Scan# 1444  
Delta R.T. 0.001 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

Tgt Ion: 98 Resp: 791192  
Ion Ratio Lower Upper  
98 100  
100 64.6 52.6 78.8

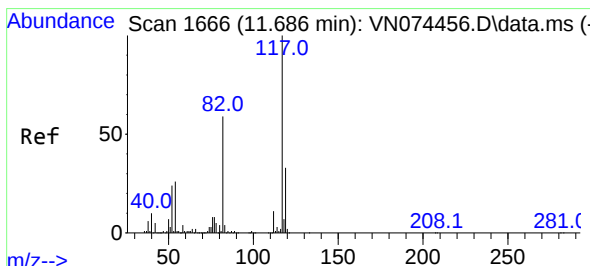
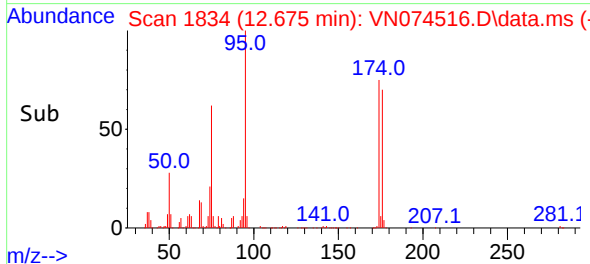
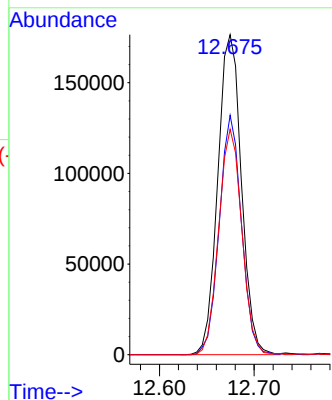
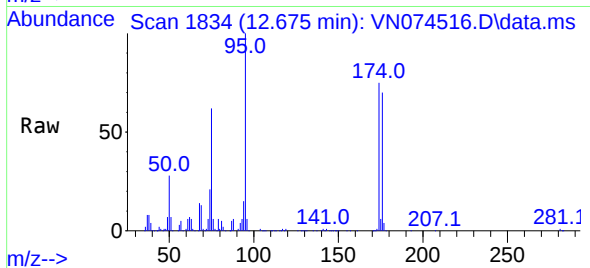




#62  
4-Bromofluorobenzene  
Concen: 53.498 ug/l  
RT: 12.675 min Scan# 1834  
Delta R.T. 0.001 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

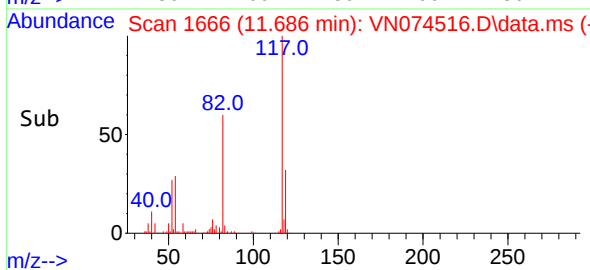
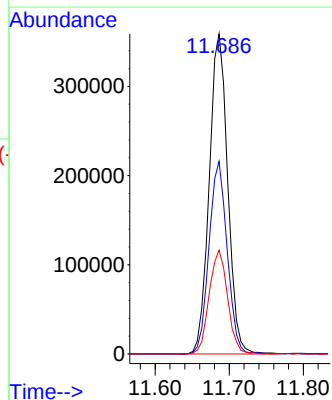
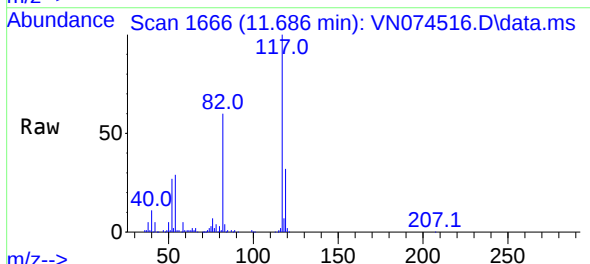
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB01-090222

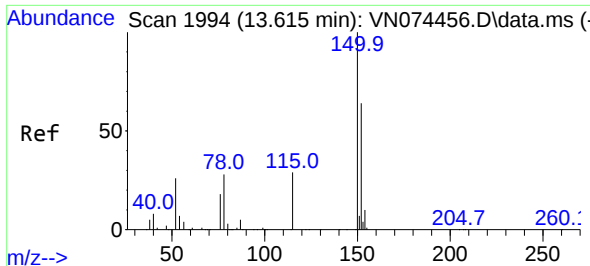
Tgt Ion: 95 Resp: 305677  
Ion Ratio Lower Upper  
95 100  
174 70.3 0.0 167.6  
176 68.9 0.0 163.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.686 min Scan# 1666  
Delta R.T. 0.000 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

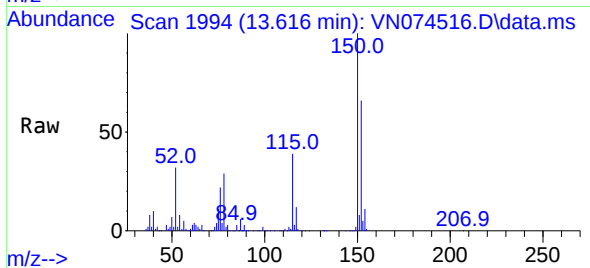
Tgt Ion: 117 Resp: 621632  
Ion Ratio Lower Upper  
117 100  
82 60.2 44.2 66.2  
119 32.5 25.4 38.0



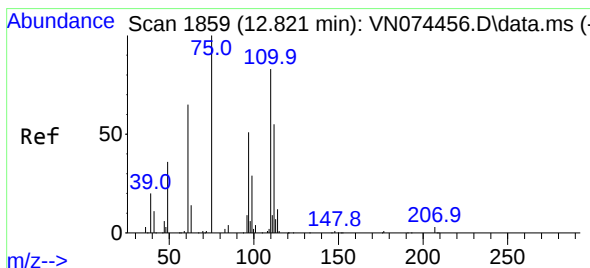
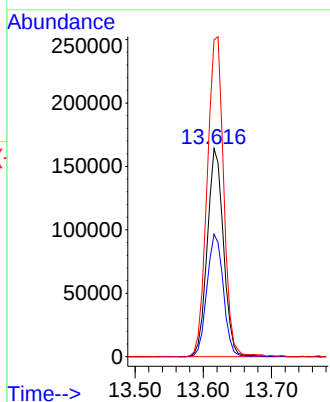
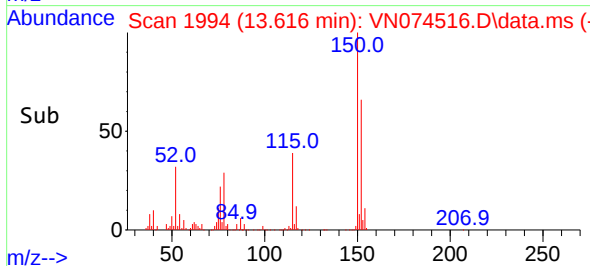


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.616 min Scan# 1994  
Delta R.T. 0.001 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
TB01-090222

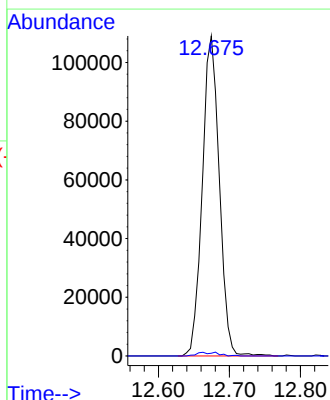
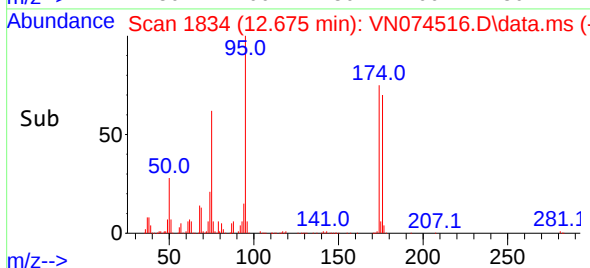
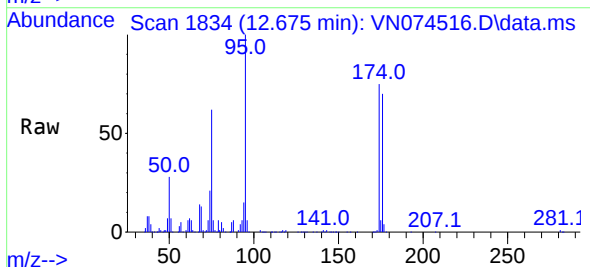


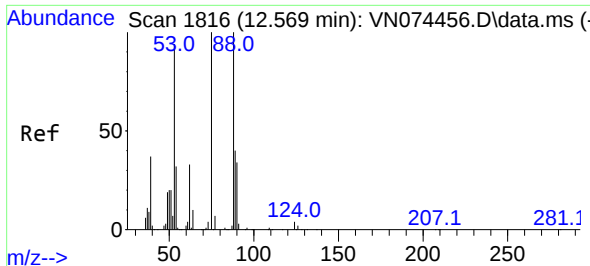
Tgt Ion:152 Resp: 271259  
Ion Ratio Lower Upper  
152 100  
115 59.5 28.9 86.7  
150 157.0 0.0 356.2



#76  
1,2,3-Trichloropropane  
Concen: 21.806 ug/l  
RT: 12.675 min Scan# 1834  
Delta R.T. -0.146 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

Tgt Ion: 75 Resp: 182068  
Ion Ratio Lower Upper  
75 100  
77 1.4 98.5 295.5#

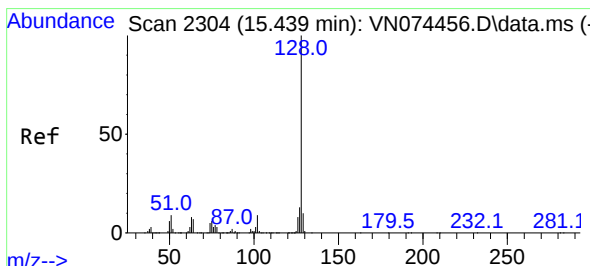
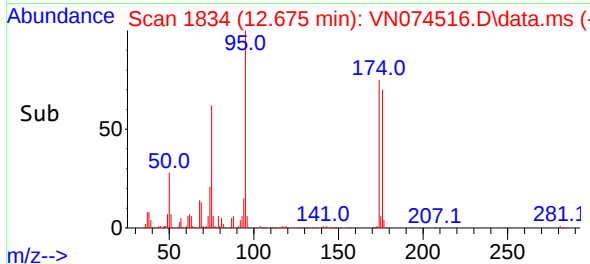
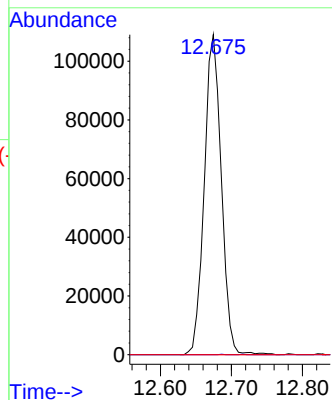
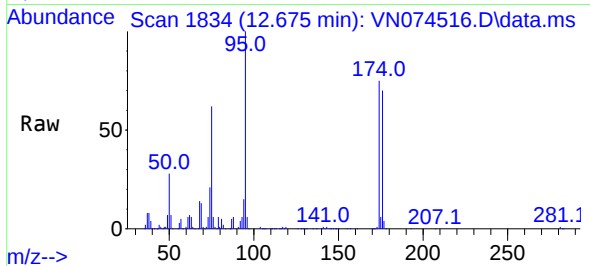




#81  
trans-1,4-Dichloro-2-butene  
Concen: 47.064 ug/l  
RT: 12.675 min Scan# 1816  
Delta R.T. 0.105 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
TB01-090222

Tgt Ion: 75 Resp: 182068  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.0 117.0#  
89 0.0 37.2 55.8#



#95  
Naphthalene  
Concen: 1.595 ug/l  
RT: 15.433 min Scan# 2303  
Delta R.T. -0.006 min  
Lab File: VN074516.D  
Acq: 16 Sep 2022 17:38

Tgt Ion:128 Resp: 156  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.6 13.0#

