

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091622\  
 Data File : VN074538.D  
 Acq On : 17 Sep 2022 03:20  
 Operator : JC\MD  
 Sample : N4549-10  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-54

Quant Time: Sep 17 06:19:04 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

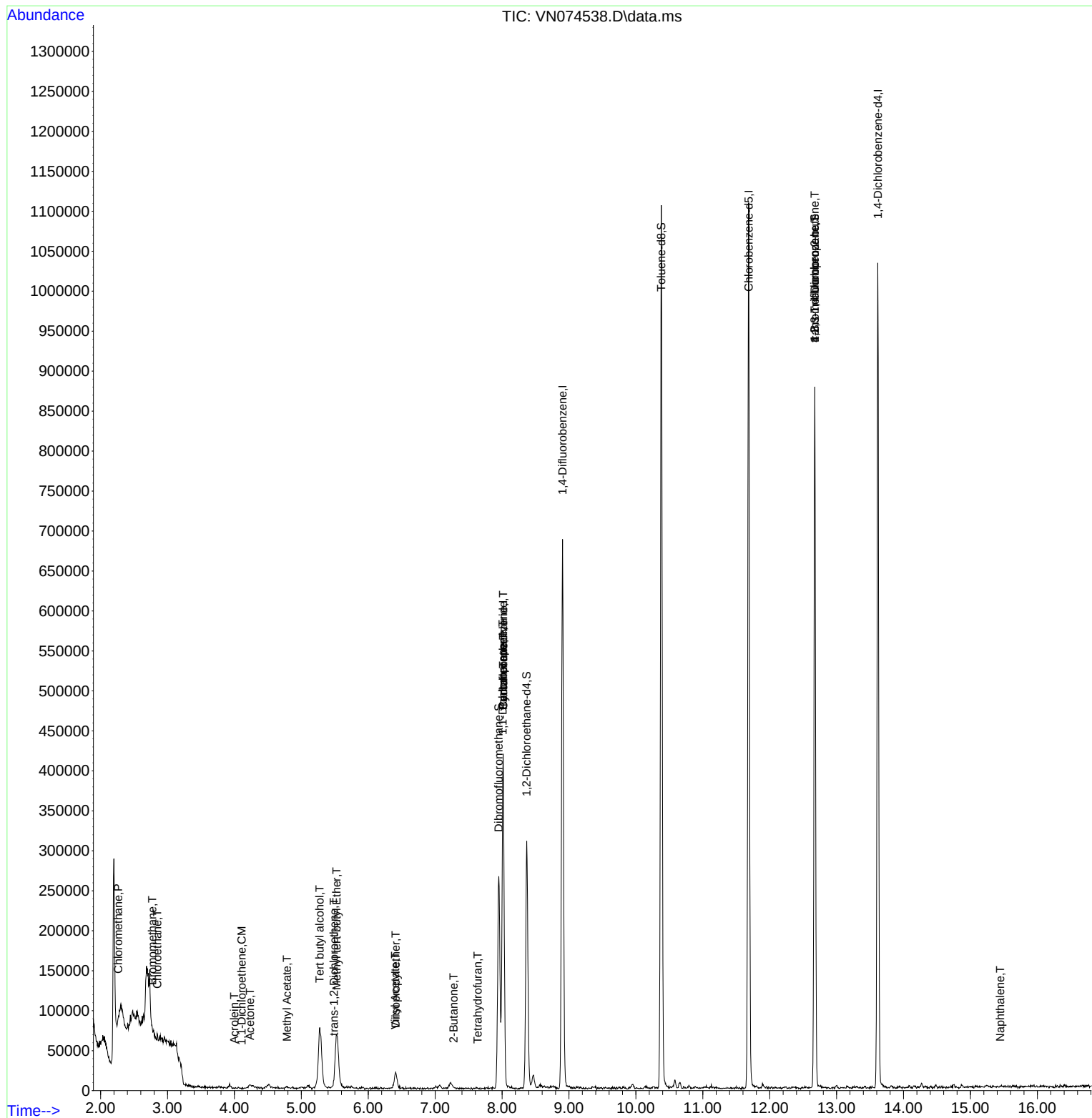
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 8.016  | 168   | 287945   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.904  | 114   | 556695   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.686 | 117   | 564666   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.615 | 152   | 236466   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.369  | 65    | 230837   | 47.248   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 94.500%  |
| 35) Dibromofluoromethane      | 7.951  | 113   | 188176   | 50.886   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 101.780% |
| 50) Toluene-d8                | 10.380 | 98    | 705750   | 49.347   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 98.700%  |
| 62) 4-Bromofluorobenzene      | 12.674 | 95    | 262308   | 53.551   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 107.100% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 2.263  | 50    | 1112     | 0.468    | ug/l   | 92       |
| 5) Bromomethane               | 2.775  | 94    | 668      | 0.225    | ug/l # | 2        |
| 6) Chloroethane               | 2.846  | 64    | 7709     | 2.001    | ug/l # | 46       |
| 11) Tert butyl alcohol        | 5.275  | 59    | 142373   | 89.457   | ug/l # | 87       |
| 12) 1,1-Dichloroethene        | 4.110  | 96    | 63       | 0.701    | ug/l # | 1        |
| 13) Acrolein                  | 3.998  | 56    | 234      | 0.403    | ug/l # | 81       |
| 16) Acetone                   | 4.234  | 43    | 5792     | 1.853    | ug/l   | 97       |
| 18) Methyl Acetate            | 4.787  | 43    | 2512     | 0.259    | ug/l # | 81       |
| 19) Methyl tert-butyl Ether   | 5.528  | 73    | 103291   | 6.462    | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene  | 5.487  | 96    | 292      | 0.499    | ug/l # | 1        |
| 22) Diisopropyl ether         | 6.410  | 45    | 24471    | 1.346    | ug/l # | 82       |
| 23) Vinyl Acetate             | 6.404  | 43    | 15042    | 0.938    | ug/l # | 68       |
| 25) 2-Butanone                | 7.275  | 43    | 1172     | 0.226    | ug/l   | 94       |
| 29) Tetrahydrofuran           | 7.633  | 42    | 748      | 0.219    | ug/l # | 53       |
| 31) Cyclohexane               | 8.016  | 56    | 11553    | 1.332    | ug/l # | 77       |
| 36) 1,1-Dichloropropene       | 8.010  | 75    | 26588    | 4.062    | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.016  | 117   | 30090    | 4.979    | ug/l # | 18       |
| 76) 1,2,3-Trichloropropane    | 12.674 | 75    | 154113   | 21.173   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.674 | 75    | 154113   | 45.699   | ug/l # | 11       |
| 95) Naphthalene               | 15.445 | 128   | 485      | 1.612    | ug/l # | 69       |
| -----                         |        |       |          |          |        |          |

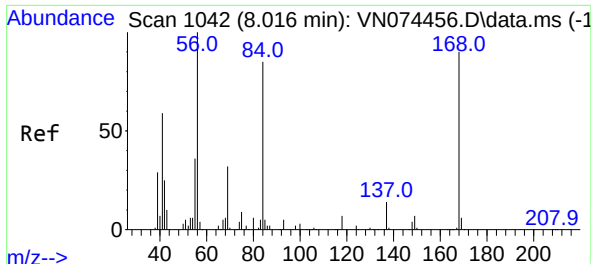
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Sep 15 19:20:33 2022  
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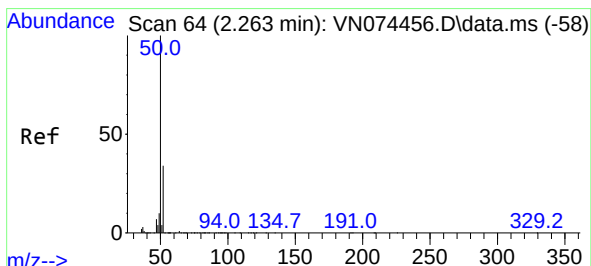
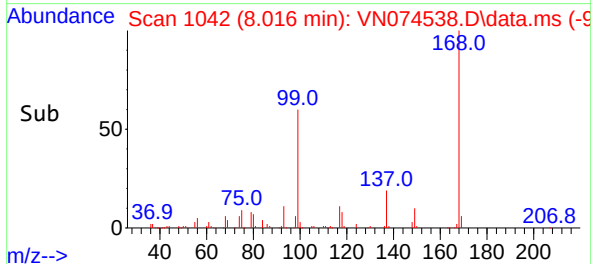
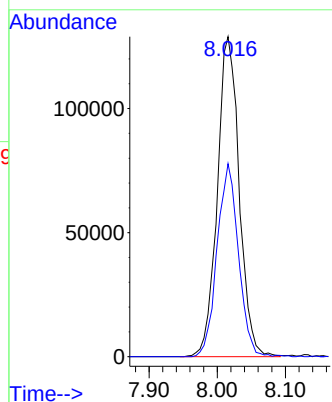
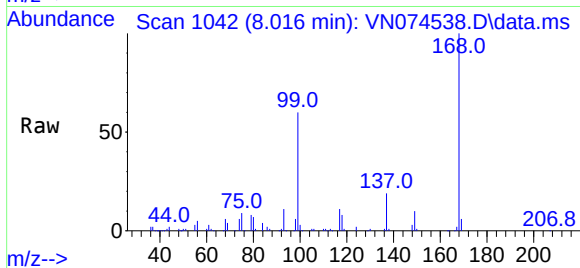




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.000 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

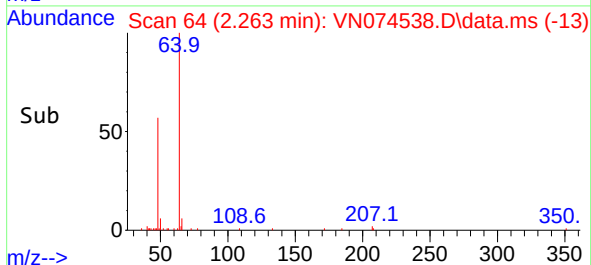
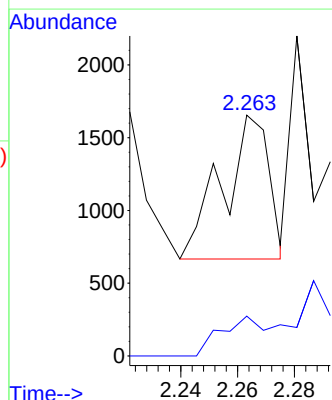
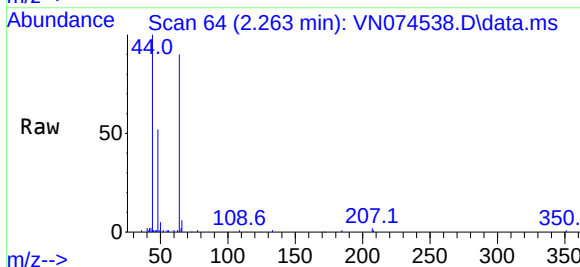
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-54

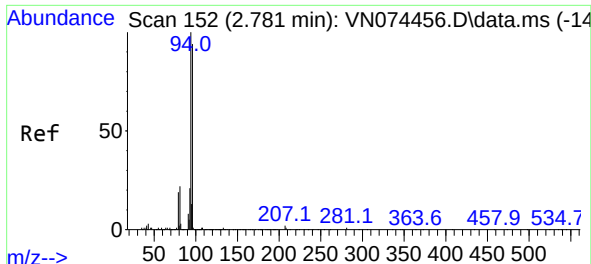
Tgt Ion:168 Resp: 287945  
Ion Ratio Lower Upper  
168 100  
99 60.3 42.3 63.5



#3  
Chloromethane  
Concen: 0.468 ug/l  
RT: 2.263 min Scan# 64  
Delta R.T. 0.000 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

Tgt Ion: 50 Resp: 1112  
Ion Ratio Lower Upper  
50 100  
52 27.7 25.7 38.5

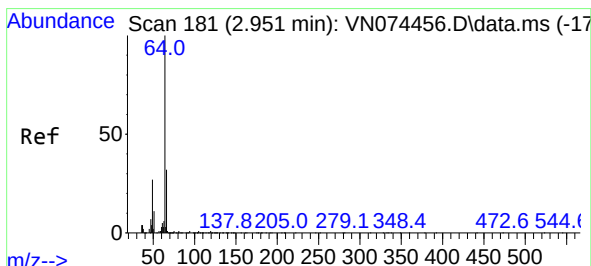
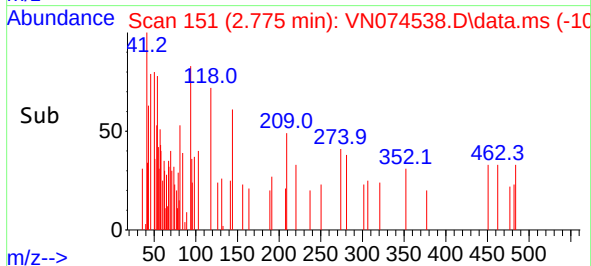
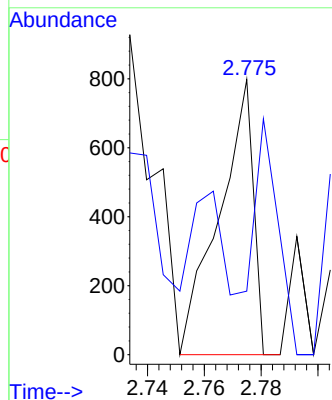
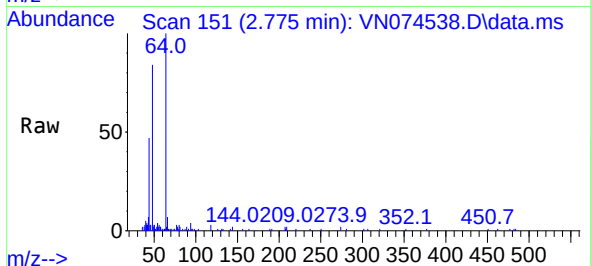




#5  
Bromomethane  
Concen: 0.225 ug/l  
RT: 2.775 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

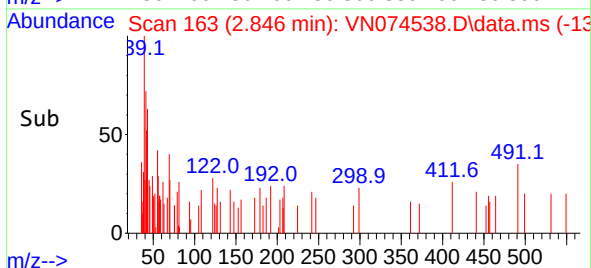
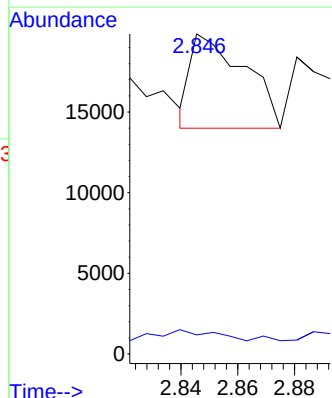
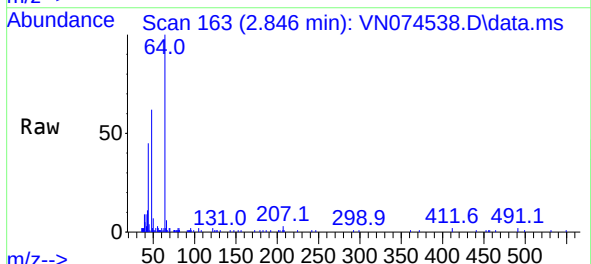
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-54

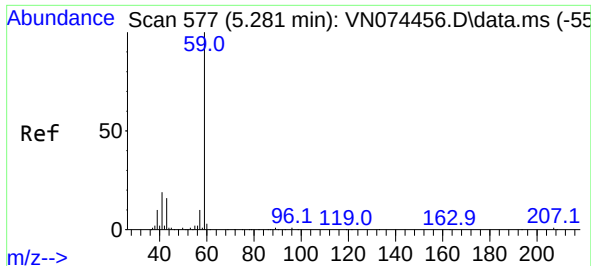
Tgt Ion: 94 Resp: 668  
Ion Ratio Lower Upper  
94 100  
96 0.0 76.0 114.0#



#6  
Chloroethane  
Concen: 2.001 ug/l  
RT: 2.846 min Scan# 163  
Delta R.T. -0.105 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

Tgt Ion: 64 Resp: 7709  
Ion Ratio Lower Upper  
64 100  
66 2.1 26.2 39.4#

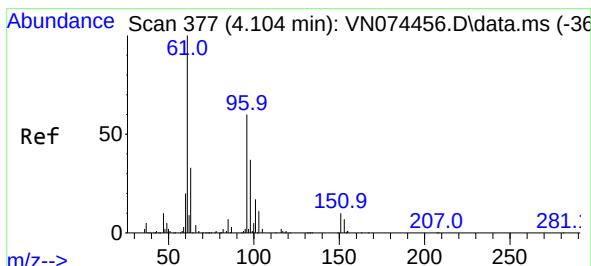
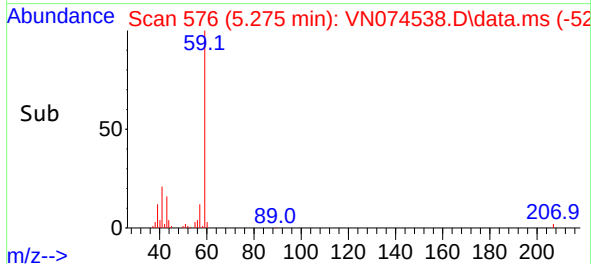
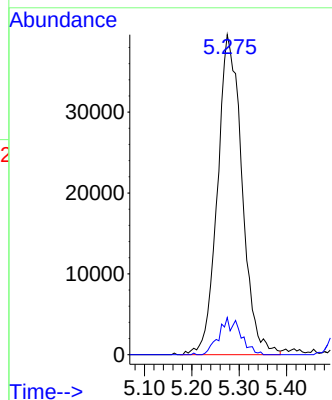
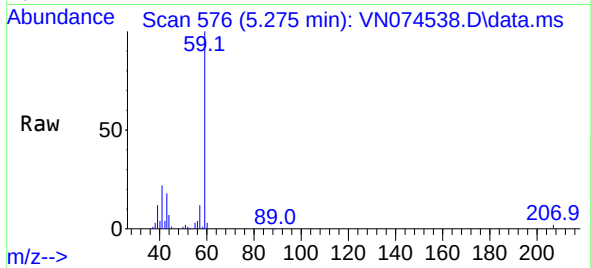




#11  
Tert butyl alcohol  
Concen: 89.457 ug/l  
RT: 5.275 min Scan# 51  
Delta R.T. -0.006 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

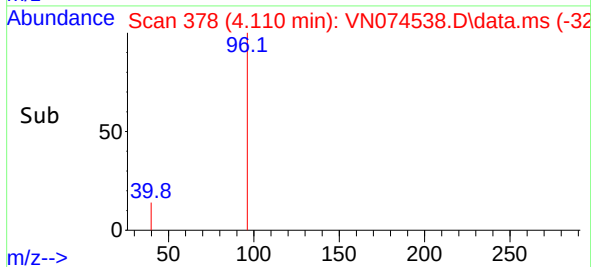
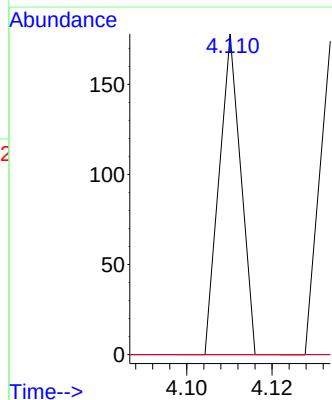
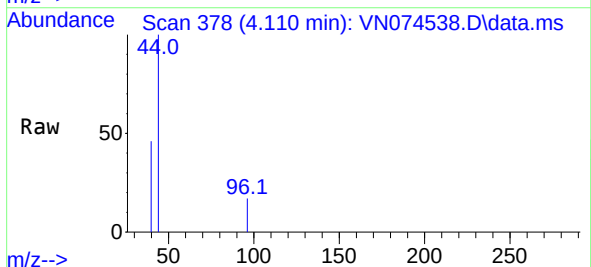
Instrument :  
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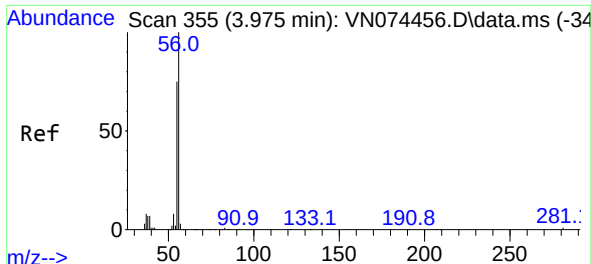
Tgt Ion: 59 Resp: 142373  
Ion Ratio Lower Upper  
59 100  
57 5.4 8.3 12.5#



#12  
1,1-Dichloroethene  
Concen: 0.701 ug/l  
RT: 4.110 min Scan# 378  
Delta R.T. 0.006 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

Tgt Ion: 96 Resp: 63  
Ion Ratio Lower Upper  
96 100  
61 0.0 127.6 191.4#  
98 0.0 51.2 76.8#

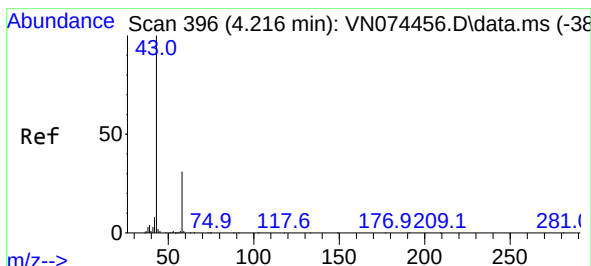
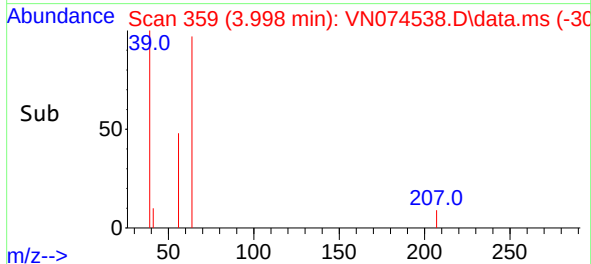
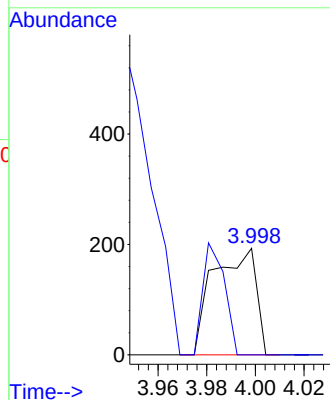
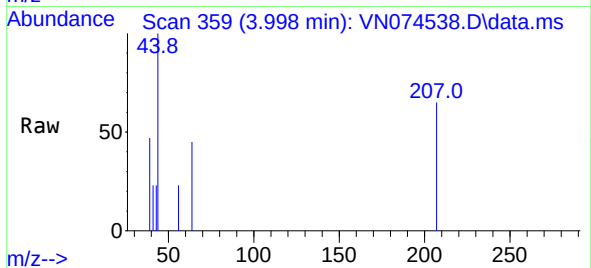




#13  
Acrolein  
Concen: 0.403 ug/l  
RT: 3.998 min Scan# 31  
Delta R.T. 0.023 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

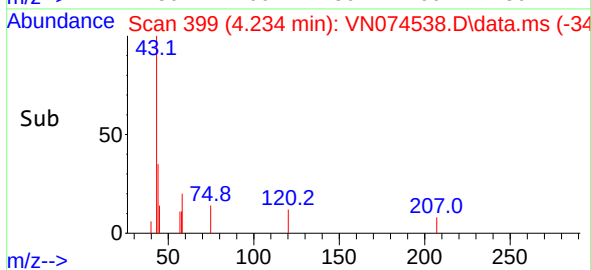
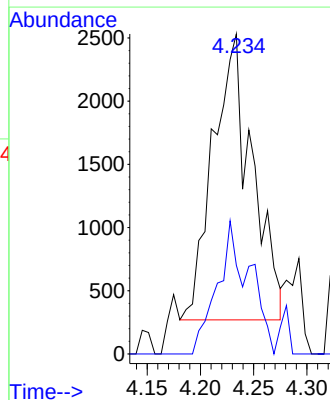
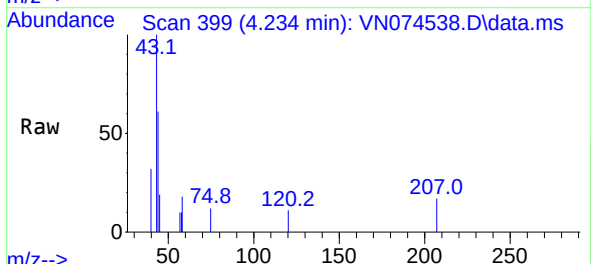
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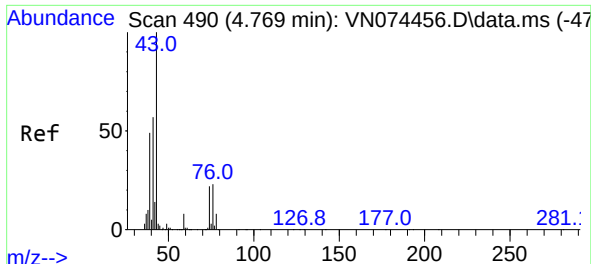
Tgt Ion: 56 Resp: 234  
Ion Ratio Lower Upper  
56 100  
55 53.4 54.8 82.2#



#16  
Acetone  
Concen: 1.853 ug/l  
RT: 4.234 min Scan# 399  
Delta R.T. 0.018 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

Tgt Ion: 43 Resp: 5792  
Ion Ratio Lower Upper  
43 100  
58 31.0 26.0 39.0





#18

Methyl Acetate

Concen: 0.259 ug/l

RT: 4.787 min Scan# 490

Delta R.T. 0.018 min

Lab File: VN074538.D

Acq: 17 Sep 2022 03:20

Instrument :

MSVOA\_N

ClientSampleId :

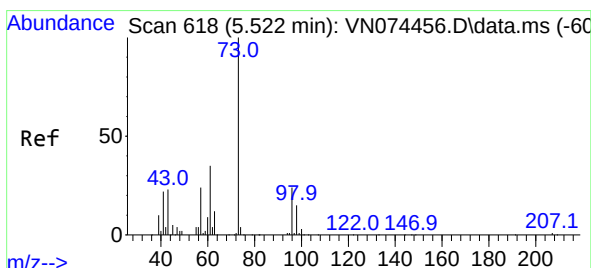
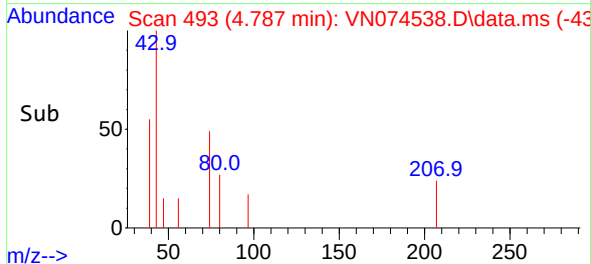
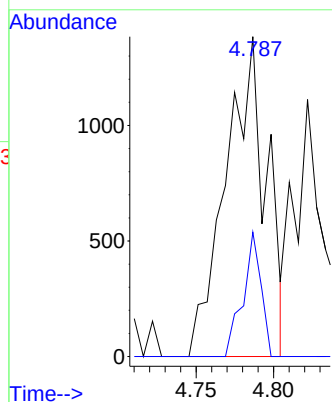
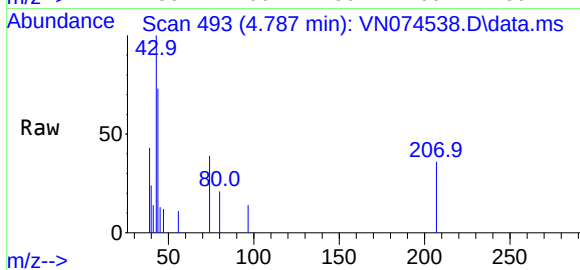
MW-54

Tgt Ion: 43 Resp: 2512

Ion Ratio Lower Upper

43 100

74 17.3 21.6 32.4#



#19

Methyl tert-butyl Ether

Concen: 6.462 ug/l

RT: 5.528 min Scan# 619

Delta R.T. 0.006 min

Lab File: VN074538.D

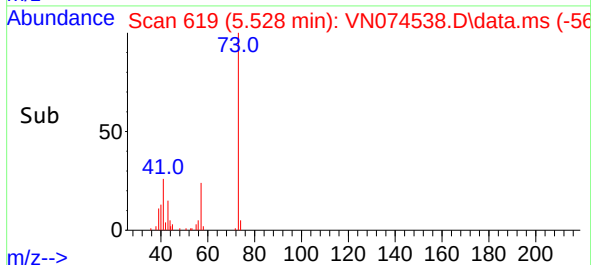
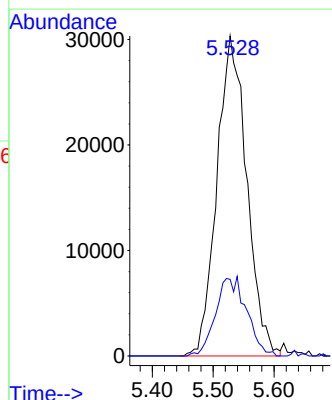
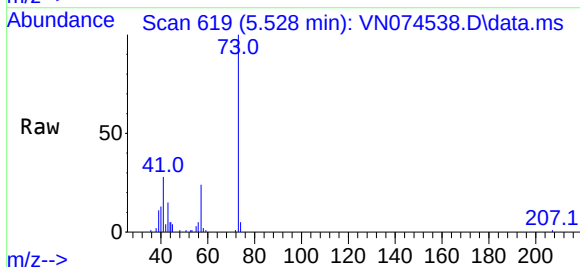
Acq: 17 Sep 2022 03:20

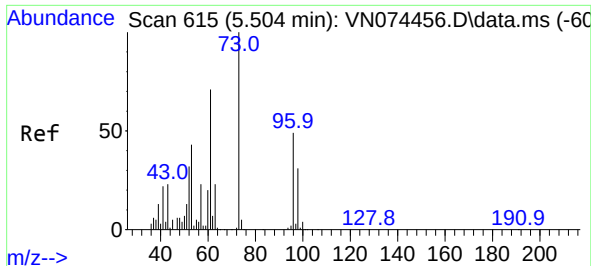
Tgt Ion: 73 Resp: 103291

Ion Ratio Lower Upper

73 100

57 24.0 17.6 26.4

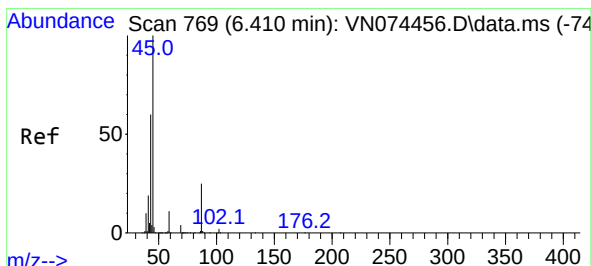
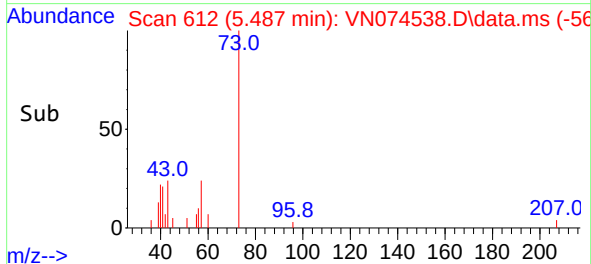
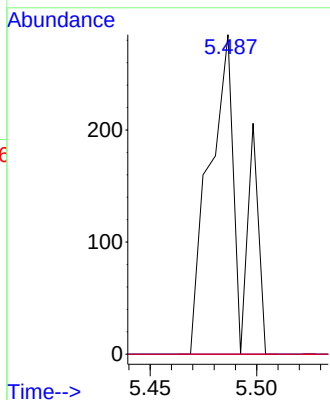
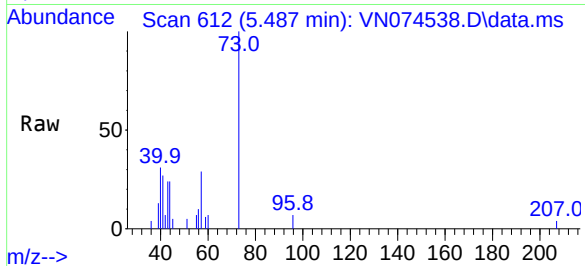




#21  
trans-1,2-Dichloroethene  
Concen: 0.499 ug/l  
RT: 5.487 min Scan# 615  
Delta R.T. -0.017 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

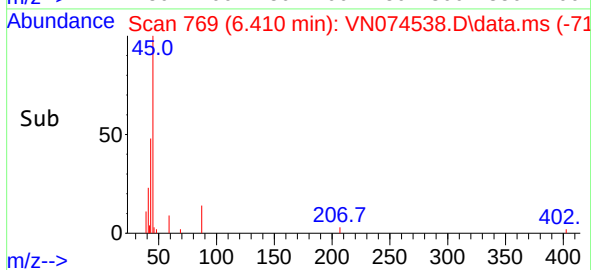
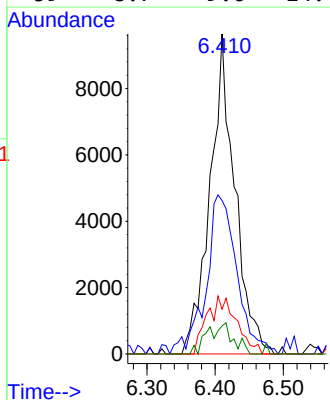
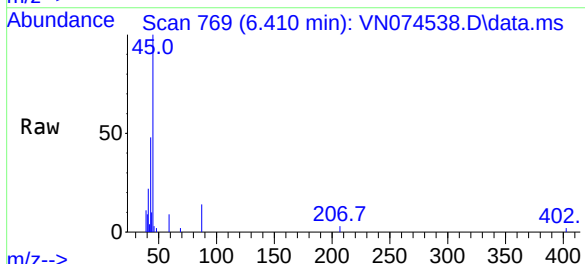
Instrument :  
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ClientSampleId :  
MW-54

Tgt Ion: 96 Resp: 292  
Ion Ratio Lower Upper  
96 100  
61 0.0 105.8 158.8#  
98 0.0 50.3 75.5#

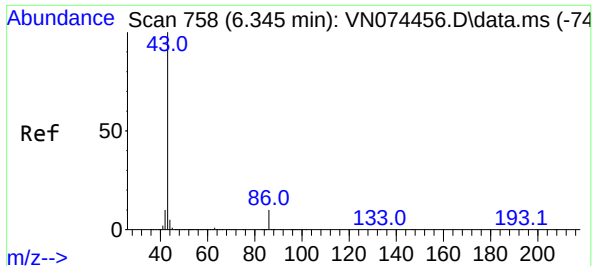


#22  
Diisopropyl ether  
Concen: 1.346 ug/l  
RT: 6.410 min Scan# 769  
Delta R.T. 0.000 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

Tgt Ion: 45 Resp: 24471  
Ion Ratio Lower Upper  
45 100  
43 48.0 46.6 70.0  
87 14.0 24.3 36.5#  
59 8.7 9.6 14.4#



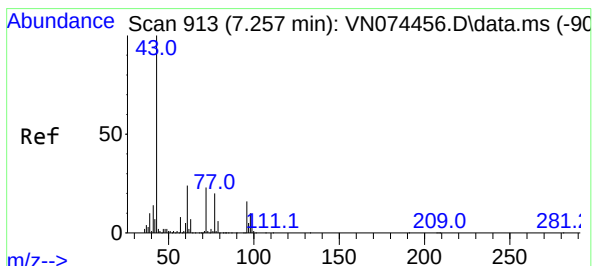
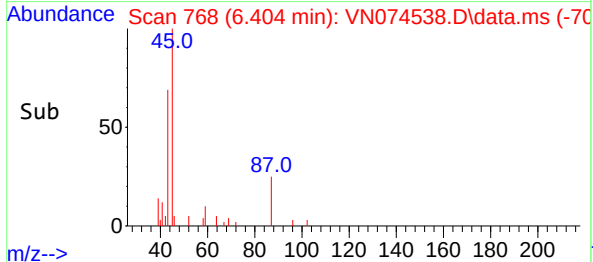
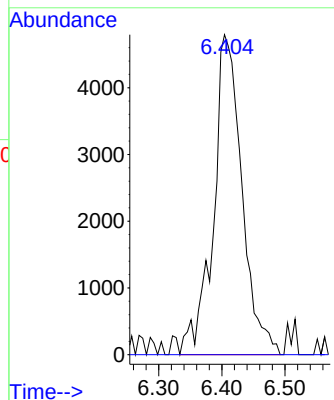
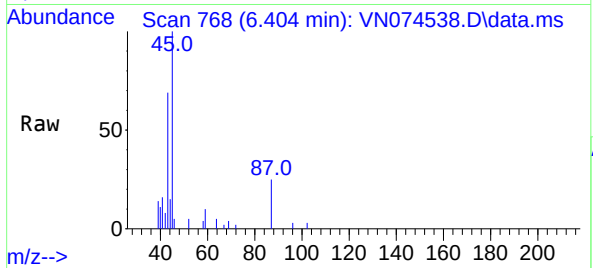




#23  
 Vinyl Acetate  
 Concen: 0.938 ug/l  
 RT: 6.404 min Scan# 7  
 Delta R.T. 0.059 min  
 Lab File: VN074538.D  
 Acq: 17 Sep 2022 03:20

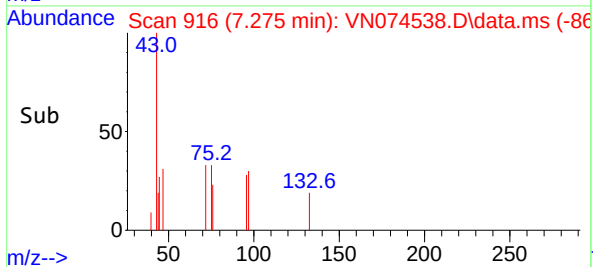
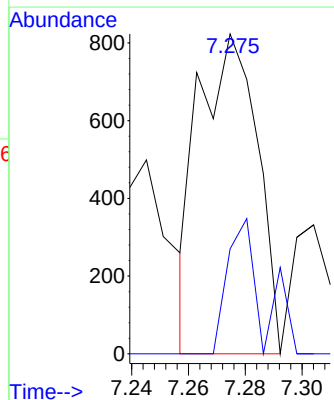
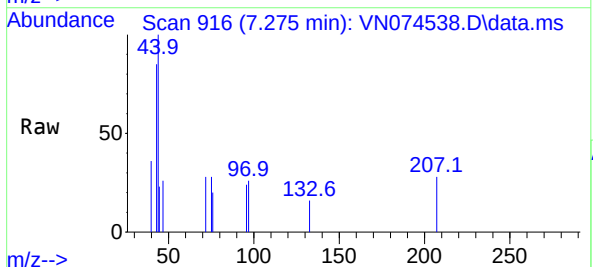
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
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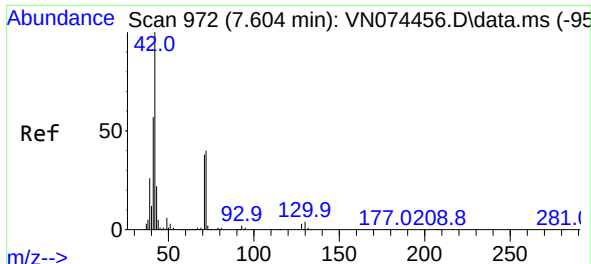
Tgt Ion: 43 Resp: 15042  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 10.0 15.0#



#25  
 2-Butanone  
 Concen: 0.226 ug/l  
 RT: 7.275 min Scan# 916  
 Delta R.T. 0.018 min  
 Lab File: VN074538.D  
 Acq: 17 Sep 2022 03:20

Tgt Ion: 43 Resp: 1172  
 Ion Ratio Lower Upper  
 43 100  
 72 32.8 23.7 35.5

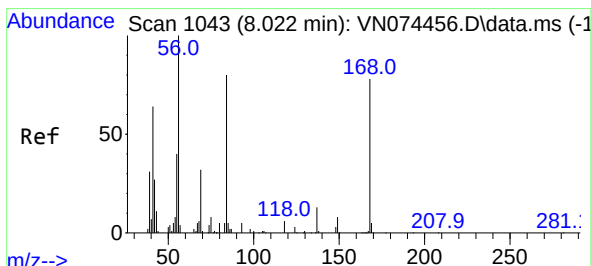
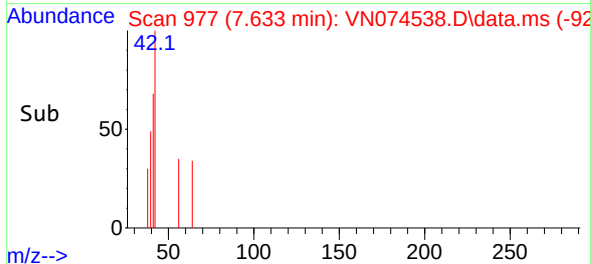
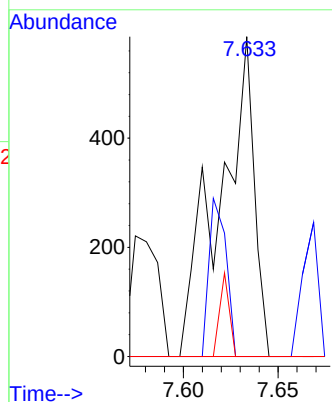
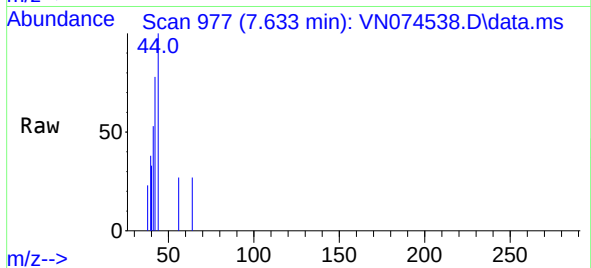




#29  
Tetrahydrofuran  
Concen: 0.219 ug/l  
RT: 7.633 min Scan# 91  
Delta R.T. 0.029 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

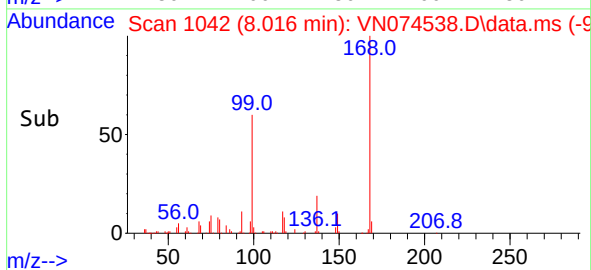
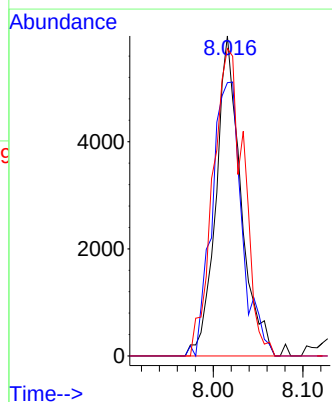
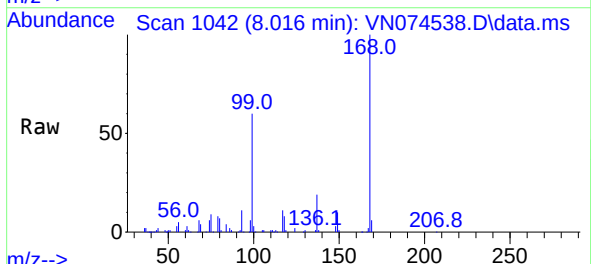
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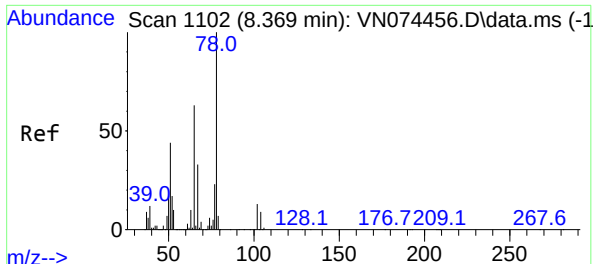
Tgt Ion: 42 Resp: 748  
Ion Ratio Lower Upper  
42 100  
72 24.3 39.7 59.5#  
71 7.2 36.6 55.0#



#31  
Cyclohexane  
Concen: 1.332 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.006 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

Tgt Ion: 56 Resp: 11553  
Ion Ratio Lower Upper  
56 100  
69 85.4 27.8 41.8#  
84 96.1 76.9 115.3

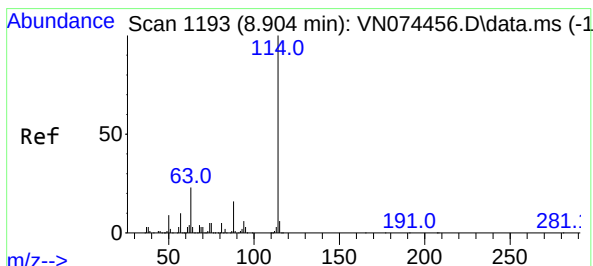
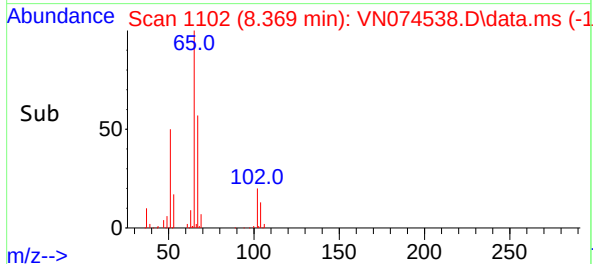
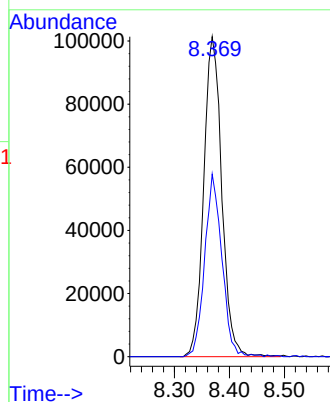
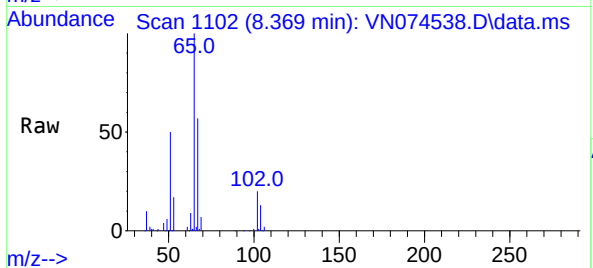




#33  
1,2-Dichloroethane-d4  
Concen: 47.248 ug/l  
RT: 8.369 min Scan# 1102  
Delta R.T. -0.000 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

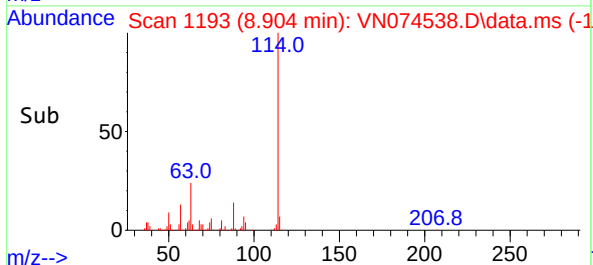
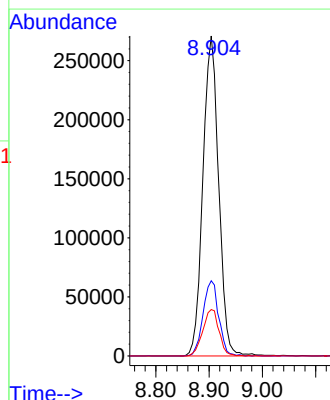
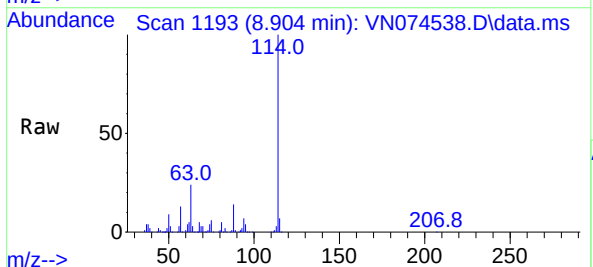
Instrument :  
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ClientSampleId :  
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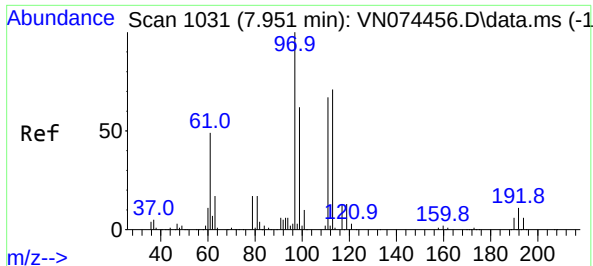
Tgt Ion: 65 Resp: 230837  
Ion Ratio Lower Upper  
65 100  
67 54.2 0.0 104.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.904 min Scan# 1193  
Delta R.T. -0.000 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

Tgt Ion: 114 Resp: 556695  
Ion Ratio Lower Upper  
114 100  
63 23.5 0.0 40.0  
88 14.5 0.0 32.6

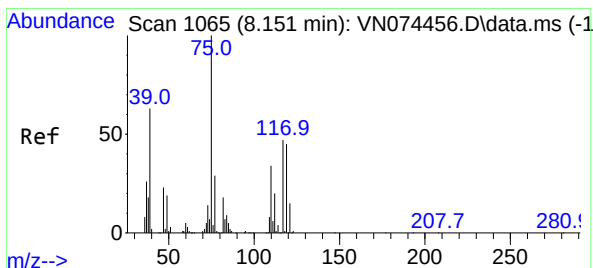
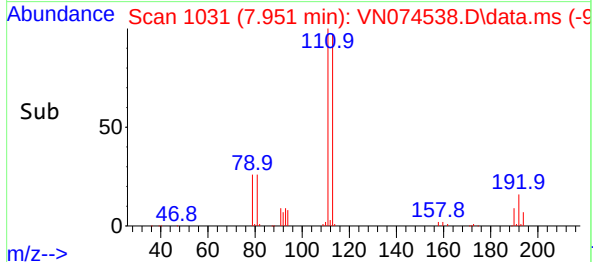
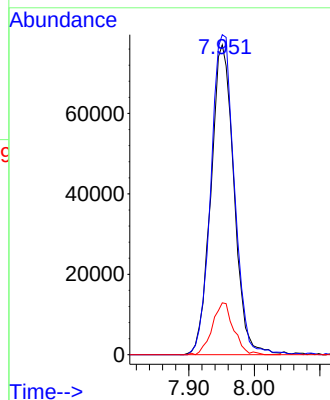
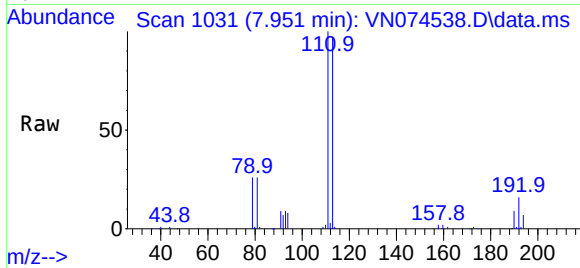




#35  
Dibromofluoromethane  
Concen: 50.886 ug/l  
RT: 7.951 min Scan# 1031  
Delta R.T. 0.000 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

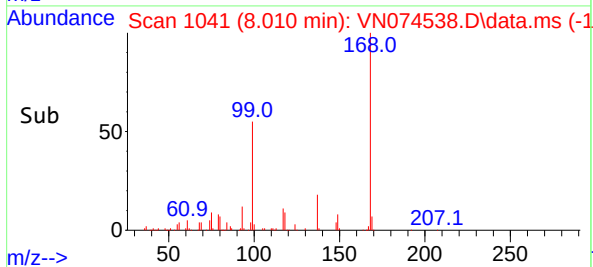
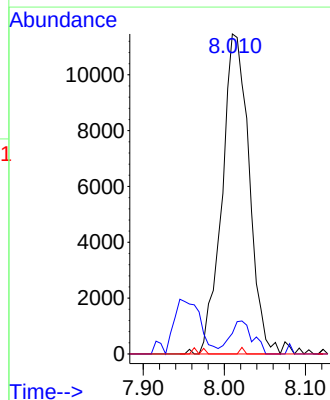
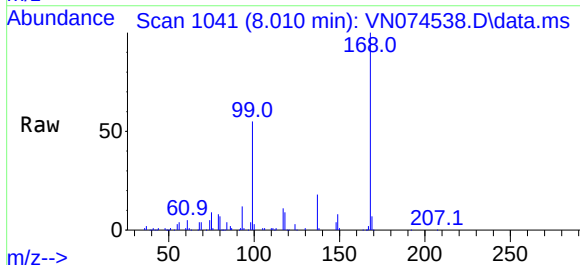
Instrument :  
MSVOA\_N  
ClientSampleId :  
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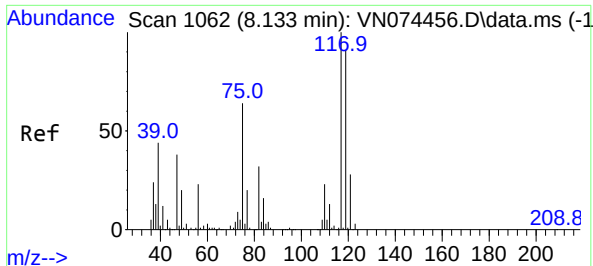
Tgt Ion:113 Resp: 188176  
Ion Ratio Lower Upper  
113 100  
111 105.0 81.4 122.0  
192 15.4 17.0 25.6#



#36  
1,1-Dichloropropene  
Concen: 4.062 ug/l  
RT: 8.010 min Scan# 1041  
Delta R.T. -0.141 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

Tgt Ion: 75 Resp: 26588  
Ion Ratio Lower Upper  
75 100  
110 8.5 18.3 54.8#  
77 0.3 25.1 37.7#

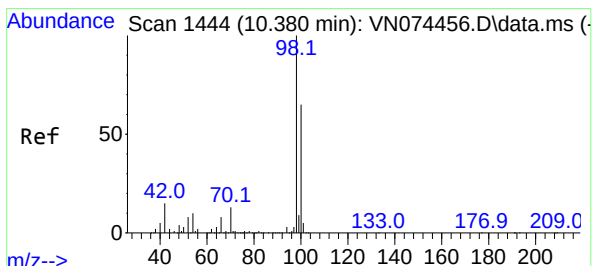
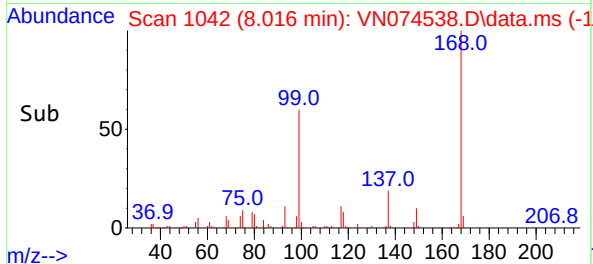
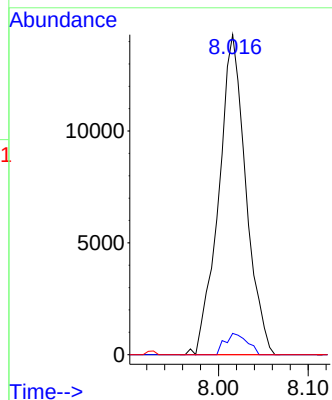
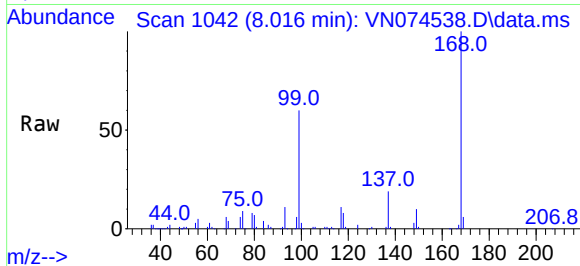




#38  
Carbon Tetrachloride  
Concen: 4.979 ug/l  
RT: 8.016 min Scan# 1062  
Delta R.T. -0.117 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

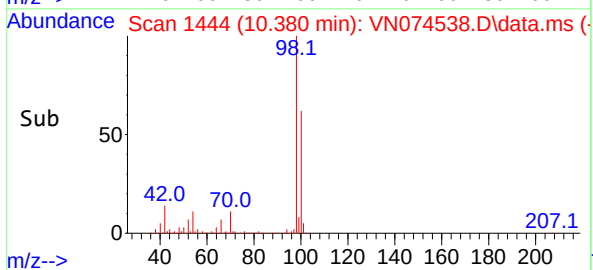
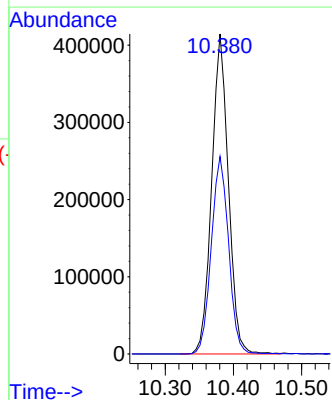
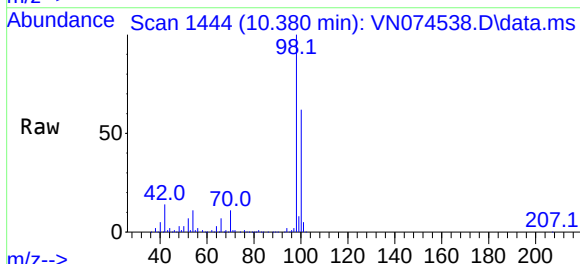
Instrument :  
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ClientSampleId :  
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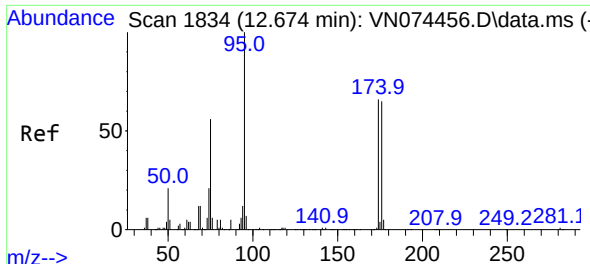
Tgt Ion:117 Resp: 30090  
Ion Ratio Lower Upper  
117 100  
119 6.6 75.8 113.8#  
121 0.0 24.6 37.0#



#50  
Toluene-d8  
Concen: 49.347 ug/l  
RT: 10.380 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

Tgt Ion: 98 Resp: 705750  
Ion Ratio Lower Upper  
98 100  
100 64.0 52.6 78.8

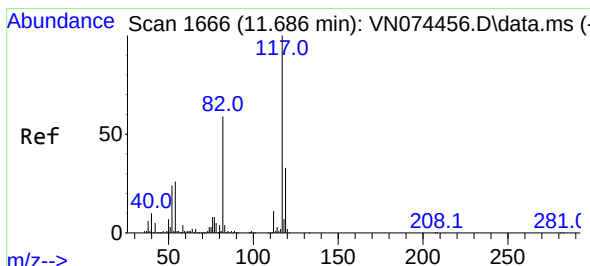
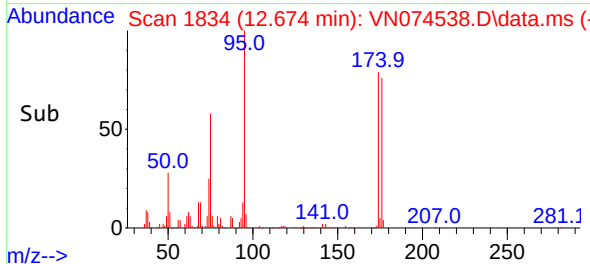
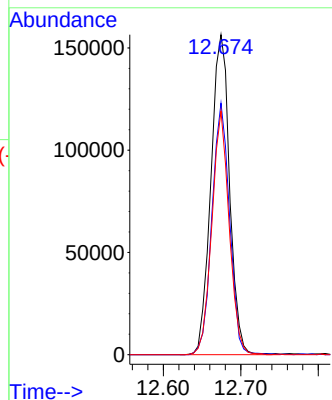
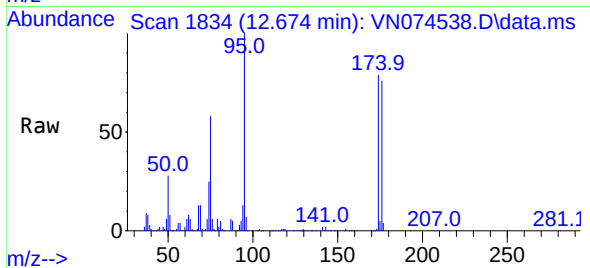




#62  
4-Bromofluorobenzene  
Concen: 53.551 ug/l  
RT: 12.674 min Scan# 1834  
Delta R.T. 0.000 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

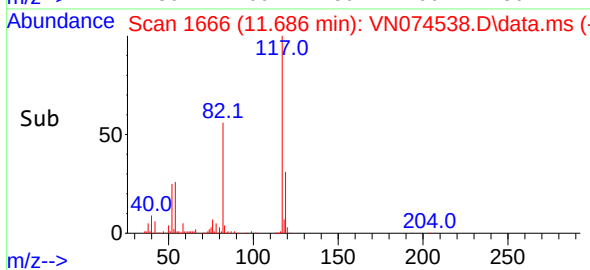
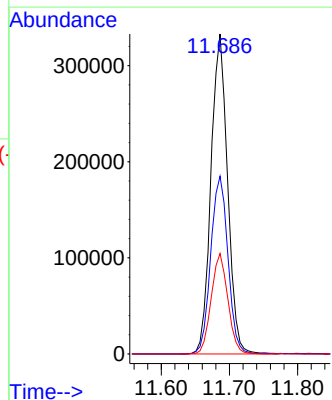
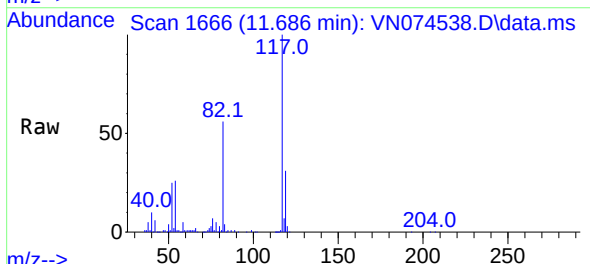
Instrument :  
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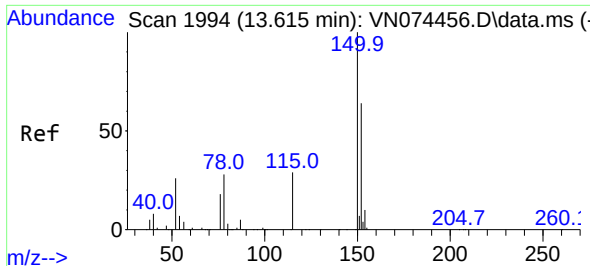
Tgt Ion: 95 Resp: 262308  
Ion Ratio Lower Upper  
95 100  
174 74.2 0.0 167.6  
176 70.4 0.0 163.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.686 min Scan# 1666  
Delta R.T. 0.000 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

Tgt Ion: 117 Resp: 564666  
Ion Ratio Lower Upper  
117 100  
82 55.6 44.2 66.2  
119 31.4 25.4 38.0



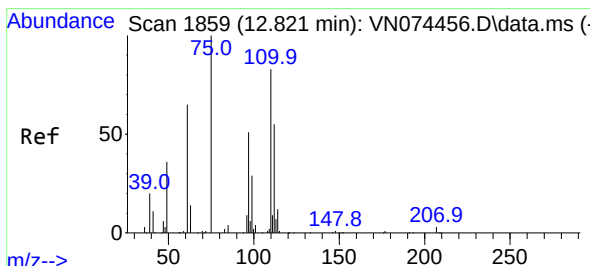
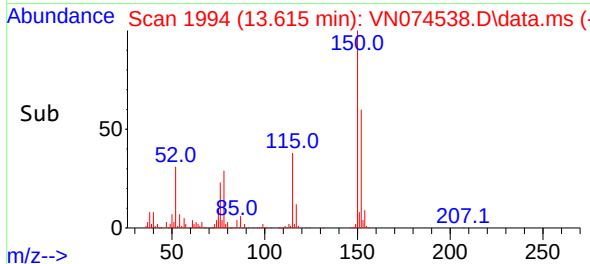
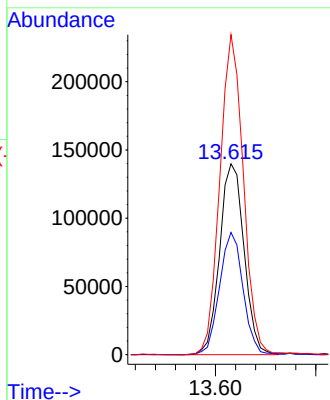
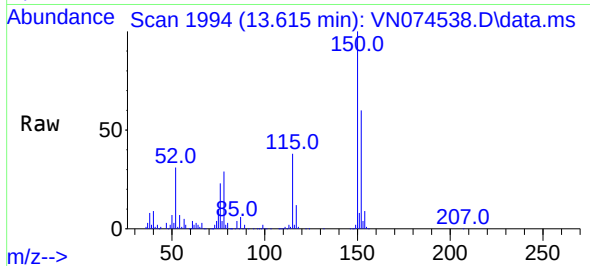


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.615 min Scan# 1994  
 Delta R.T. 0.000 min  
 Lab File: VN074538.D  
 Acq: 17 Sep 2022 03:20

Instrument :  
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 ClientSampleId :  
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Tgt Ion:152 Resp: 236466  

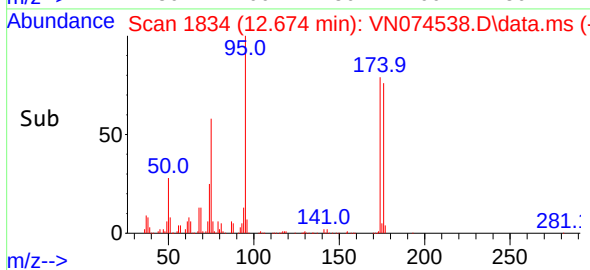
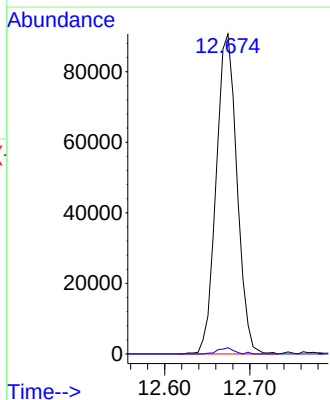
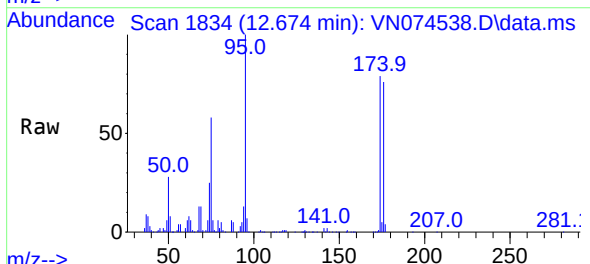
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 61.6  | 28.9  | 86.7  |
| 150 | 162.3 | 0.0   | 356.2 |

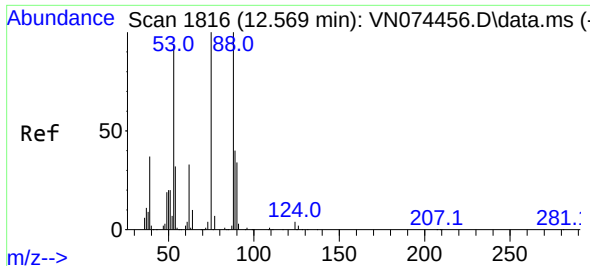


#76  
 1,2,3-Trichloropropane  
 Concen: 21.173 ug/l  
 RT: 12.674 min Scan# 1834  
 Delta R.T. -0.147 min  
 Lab File: VN074538.D  
 Acq: 17 Sep 2022 03:20

Tgt Ion: 75 Resp: 154113  

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 75  | 100   |       |        |
| 77  | 1.4   | 98.5  | 295.5# |

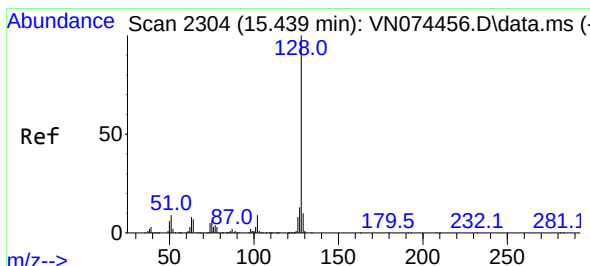
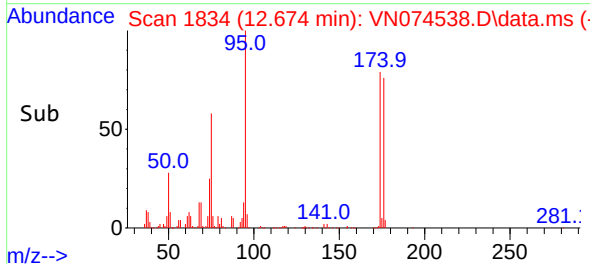
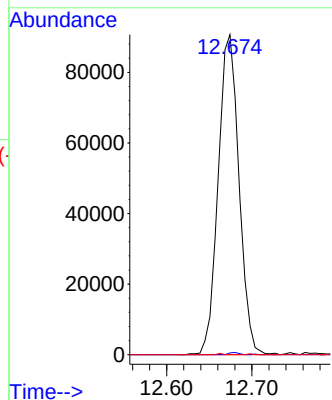
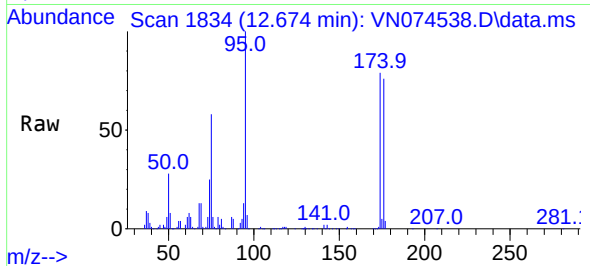




#81  
trans-1,4-Dichloro-2-butene  
Concen: 45.699 ug/l  
RT: 12.674 min Scan# 1816  
Delta R.T. 0.105 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

Instrument :  
MSVOA\_N  
ClientSampleId :  
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Tgt Ion: 75 Resp: 154113  
Ion Ratio Lower Upper  
75 100  
53 0.3 78.0 117.0#  
89 0.1 37.2 55.8#



#95  
Naphthalene  
Concen: 1.612 ug/l  
RT: 15.445 min Scan# 2305  
Delta R.T. 0.006 min  
Lab File: VN074538.D  
Acq: 17 Sep 2022 03:20

Tgt Ion:128 Resp: 485  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.6 13.0#

