

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031722\  
 Data File : VN071355.D  
 Acq On : 17 Mar 2022 16:46  
 Operator : JC\MD  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 IBLK

Quant Time: Mar 18 07:01:45 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N031722W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Mar 17 06:37:08 2022  
 Response via : Initial Calibration

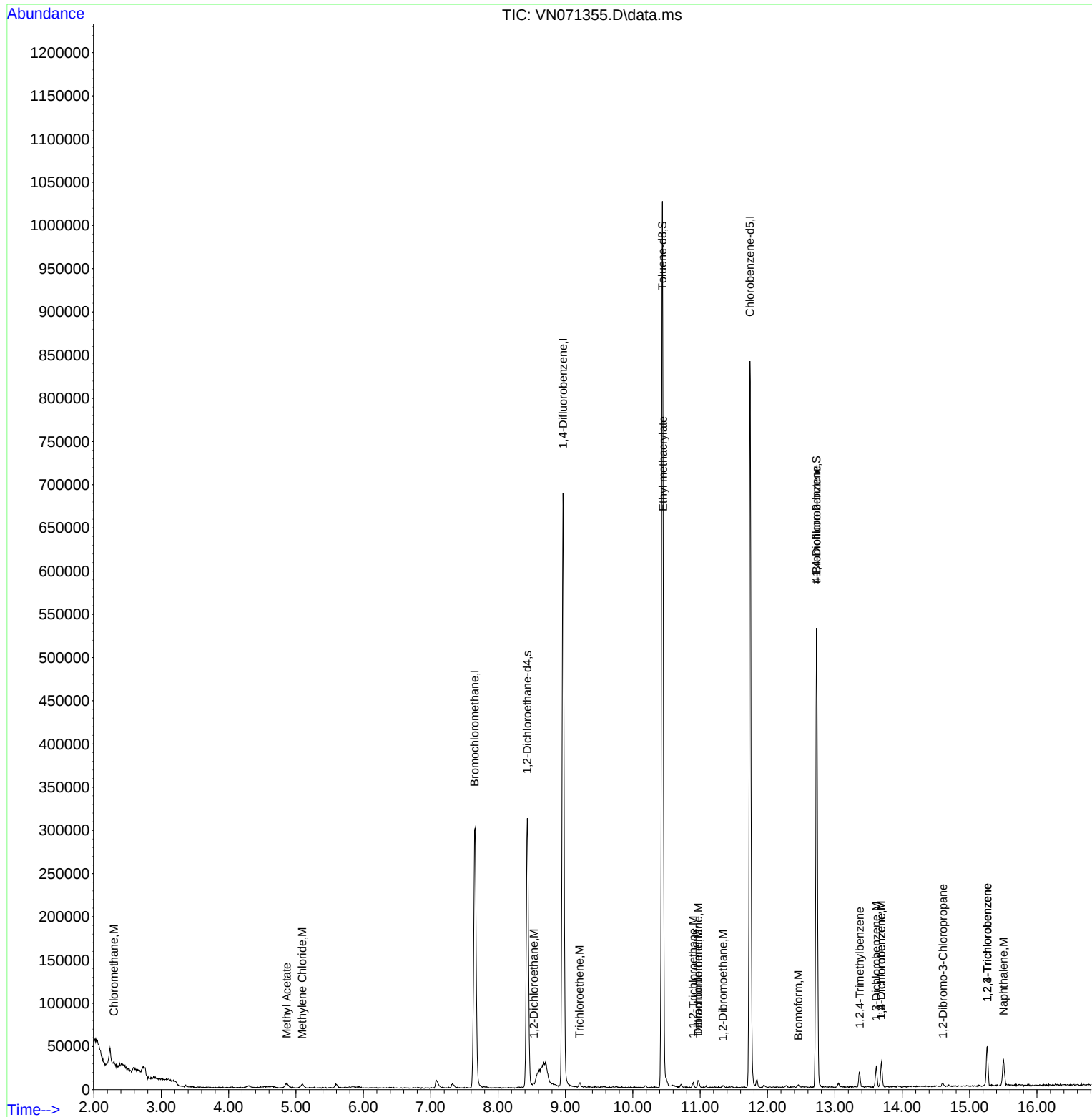
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 7.651  | 128   | 110077   | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene       | 8.963  | 114   | 594693   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5          | 11.739 | 117   | 493136   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4     | 8.433  | 65    | 260063   | 29.757   | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 110 | Recovery | =      | 99.200%  |
| 60) 4-Bromofluorobenzene      | 12.727 | 95    | 186605   | 24.493   | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 63 - 112 | Recovery | =      | 81.633%  |
| 63) Toluene-d8                | 10.439 | 98    | 698618   | 30.796   | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 112 | Recovery | =      | 102.667% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 2.299  | 50    | 3023     | 0.318    | ug/l # | 84       |
| 12) Methyl Acetate            | 4.863  | 43    | 6936     | 0.576    | ug/l   | 90       |
| 18) Methylene Chloride        | 5.093  | 84    | 2219     | 0.289    | ug/l # | 70       |
| 36) 1,2-Dichloroethane        | 8.533  | 62    | 3007     | 0.284    | ug/l   | 96       |
| 37) Trichloroethene           | 9.210  | 130   | 1968     | 0.279    | ug/l   | 98       |
| 50) 1,1,2-Trichloroethane     | 10.898 | 97    | 1757     | 0.243    | ug/l # | 86       |
| 51) Ethyl methacrylate        | 10.451 | 69    | 2550     | 0.205    | ug/l # | 73       |
| 53) Dibromochloromethane      | 10.969 | 129   | 1709     | 0.227    | ug/l # | 10       |
| 54) 1,2-Dibromoethane         | 11.339 | 107   | 1927     | 0.257    | ug/l   | 81       |
| 56) Bromoform                 | 12.457 | 173   | 1703     | 0.293    | ug/l # | 60       |
| 61) Tetrachloroethene         | 10.969 | 164   | 2231     | 0.415    | ug/l # | 66       |
| 77) t-1,4-Dichloro-2-butene   | 12.727 | 75    | 95242    | 30.687   | ug/l # | 8        |
| 80) 1,2,4-Trimethylbenzene    | 13.368 | 105   | 11122    | 0.486    | ug/l # | 82       |
| 83) 1,3-Dichlorobenzene       | 13.616 | 146   | 12399    | 1.091    | ug/l   | 85       |
| 84) 1,4-Dichlorobenzene       | 13.686 | 146   | 12285    | 1.136    | ug/l   | 96       |
| 87) 1,2-Dichlorobenzene       | 13.686 | 146   | 12285    | 1.115    | ug/l   | 95       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.604 | 75    | 921      | 0.465    | ug/l # | 56       |
| 89) 1,2,4-Trichlorobenzene    | 15.262 | 180   | 16149    | 3.164    | ug/l   | 96       |
| 91) Naphthalene               | 15.504 | 128   | 28463    | 1.782    | ug/l # | 92       |
| 92) 1,2,3-Trichlorobenzene    | 15.262 | 180   | 16149    | 3.085    | ug/l   | 94       |
| -----                         |        |       |          |          |        |          |

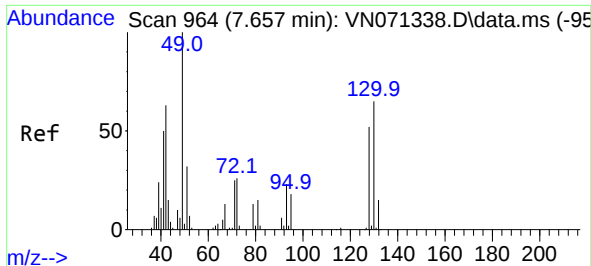
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 17 06:37:08 2022  
Response via : Initial Calibration

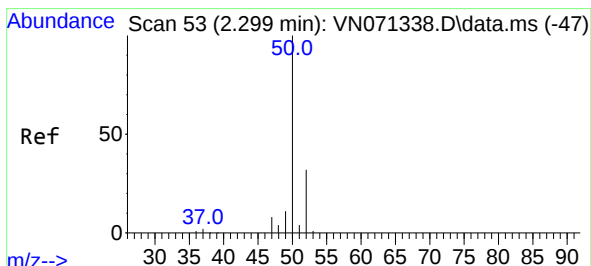
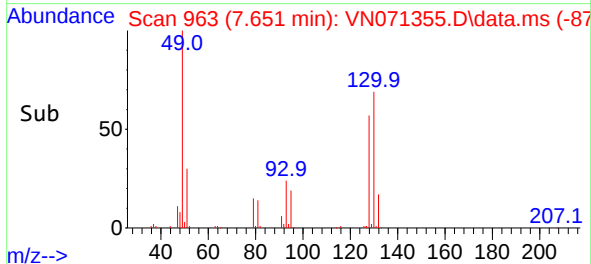
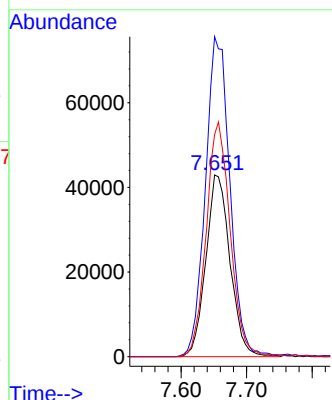
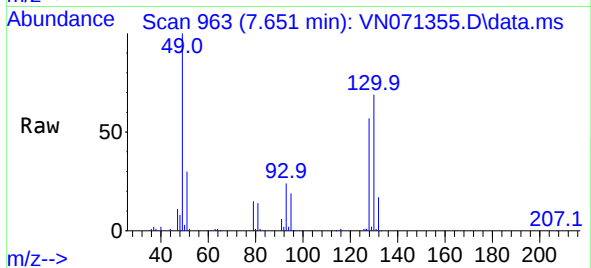




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.651 min Scan# 9  
Delta R.T. -0.006 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

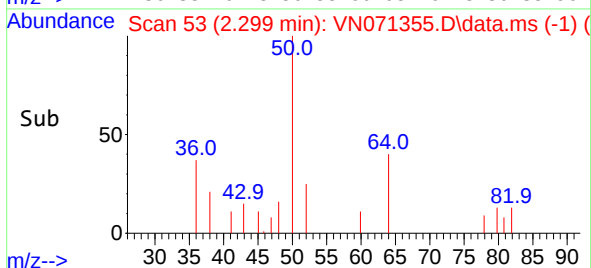
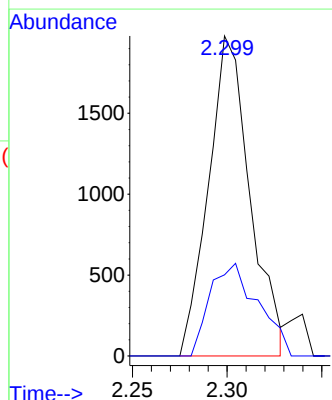
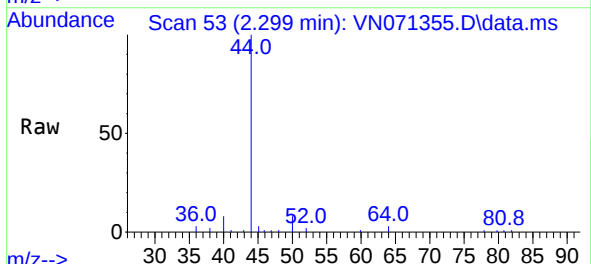
Instrument :  
MSVOA\_N  
ClientSampleId :  
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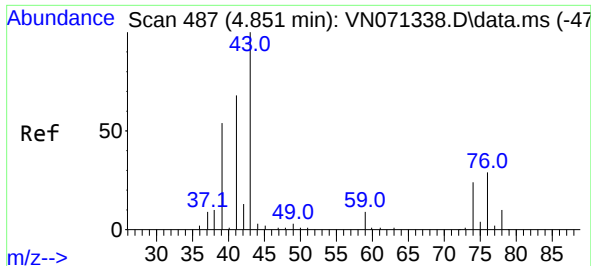
Tgt Ion:128 Resp: 110077  
Ion Ratio Lower Upper  
128 100  
49 177.8 0.0 392.3  
130 127.6 0.0 320.2



#3  
Chloromethane  
Concen: 0.318 ug/l  
RT: 2.299 min Scan# 53  
Delta R.T. -0.000 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

Tgt Ion: 50 Resp: 3023  
Ion Ratio Lower Upper  
50 100  
52 25.4 27.8 41.6#

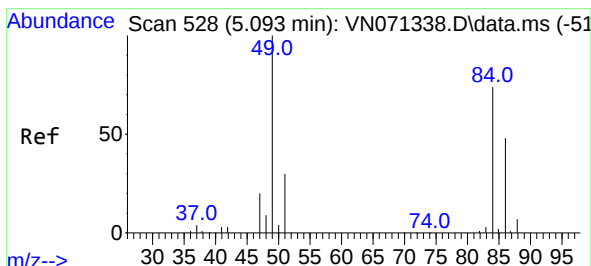
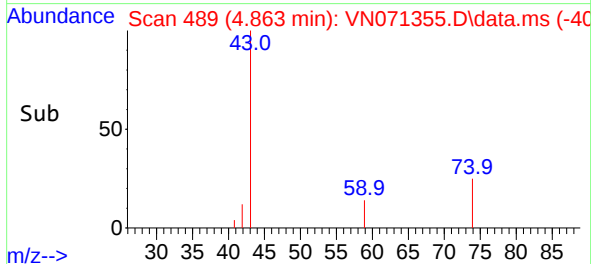
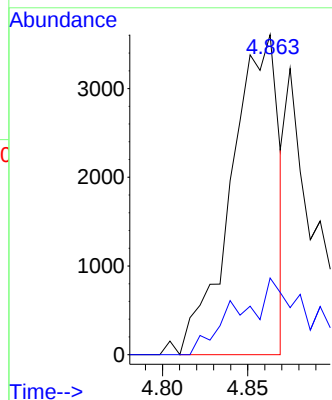
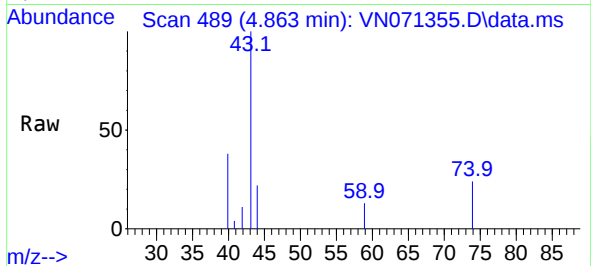




#12  
Methyl Acetate  
Concen: 0.576 ug/l  
RT: 4.863 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

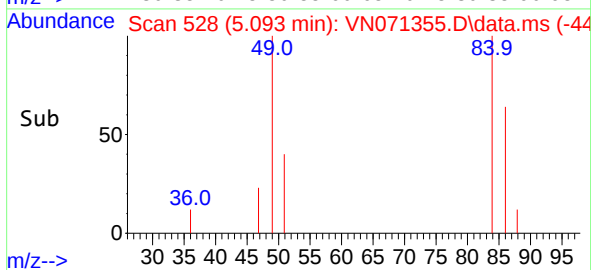
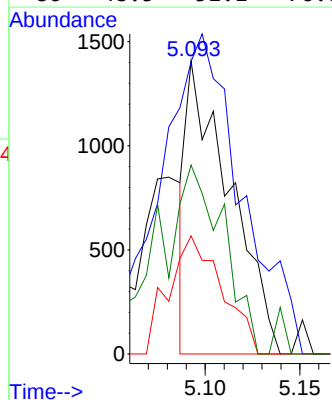
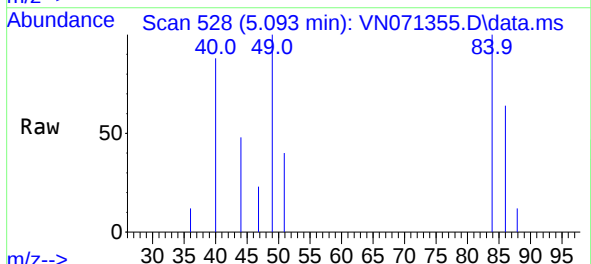
Instrument :  
MSVOA\_N  
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IBLK

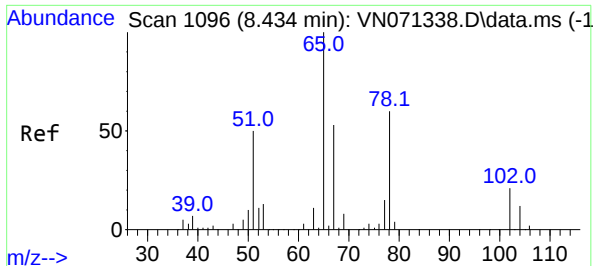
Tgt Ion: 43 Resp: 6936  
Ion Ratio Lower Upper  
43 100  
74 20.9 20.8 31.2



#18  
Methylene Chloride  
Concen: 0.289 ug/l  
RT: 5.093 min Scan# 528  
Delta R.T. -0.000 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

Tgt Ion: 84 Resp: 2219  
Ion Ratio Lower Upper  
84 100  
49 68.0 91.4 137.0#  
51 40.3 29.4 44.0  
86 48.5 51.1 76.7#

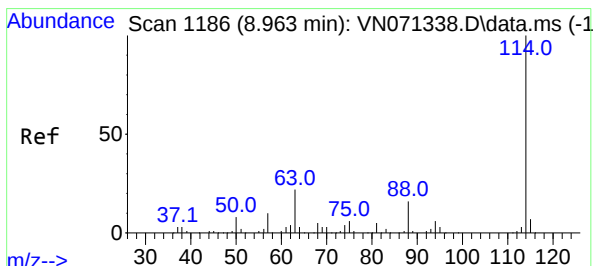
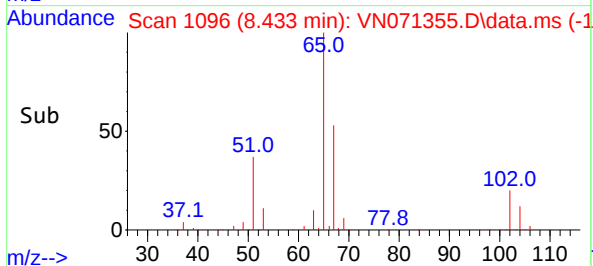
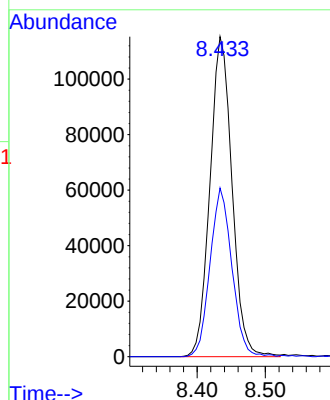
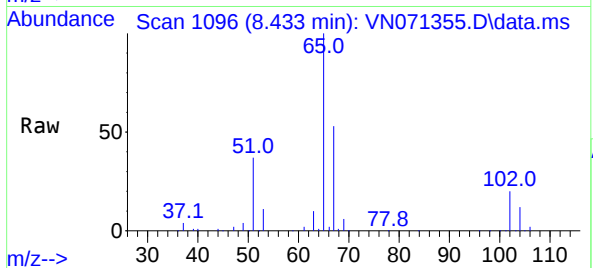




#27  
1,2-Dichloroethane-d4  
Concen: 29.757 ug/l  
RT: 8.433 min Scan# 1096  
Delta R.T. -0.000 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

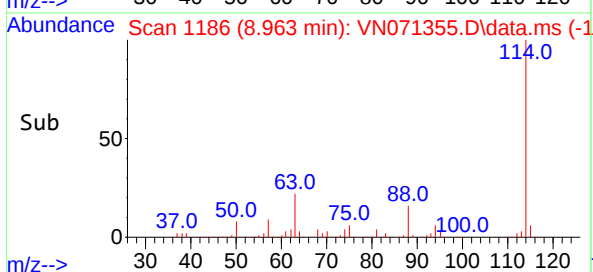
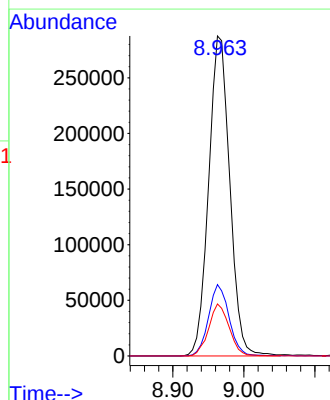
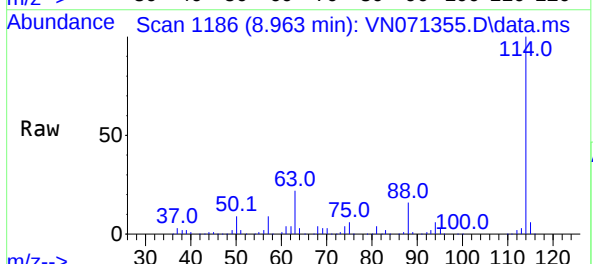
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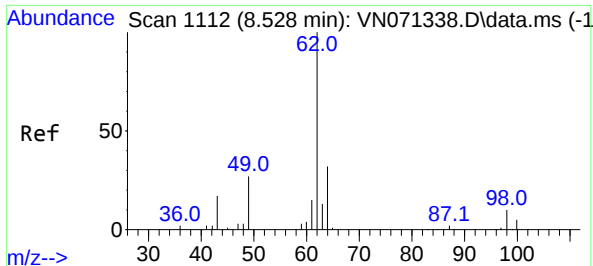
Tgt Ion: 65 Resp: 260063  
Ion Ratio Lower Upper  
65 100  
67 51.9 40.2 60.2



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 8.963 min Scan# 1186  
Delta R.T. -0.000 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

Tgt Ion: 114 Resp: 594693  
Ion Ratio Lower Upper  
114 100  
63 21.6 15.8 23.6  
88 15.8 11.6 17.4





#36

1,2-Dichloroethane

Concen: 0.284 ug/l

RT: 8.533 min Scan# 1112

Delta R.T. 0.006 min

Lab File: VN071355.D

Acq: 17 Mar 2022 16:46

Instrument :

MSVOA\_N

ClientSampleId :

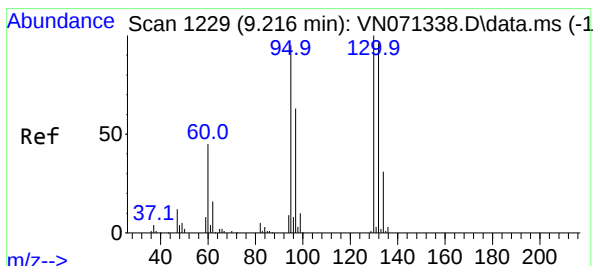
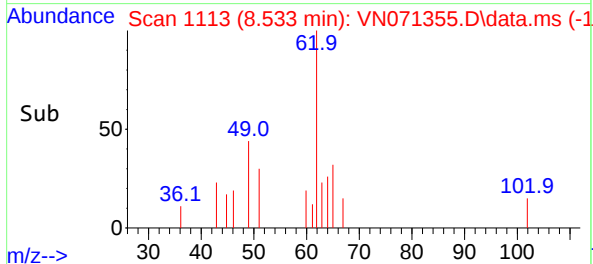
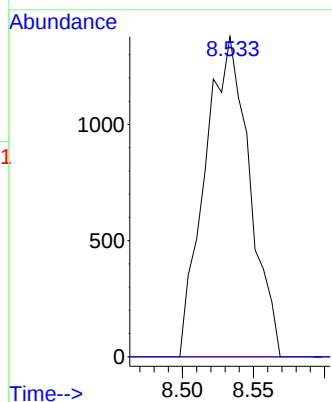
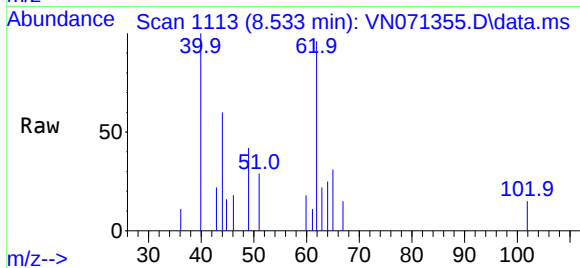
IBLK

Tgt Ion: 62 Resp: 3007

Ion Ratio Lower Upper

62 100

98 6.9 6.6 10.0



#37

Trichloroethene

Concen: 0.279 ug/l

RT: 9.210 min Scan# 1228

Delta R.T. -0.006 min

Lab File: VN071355.D

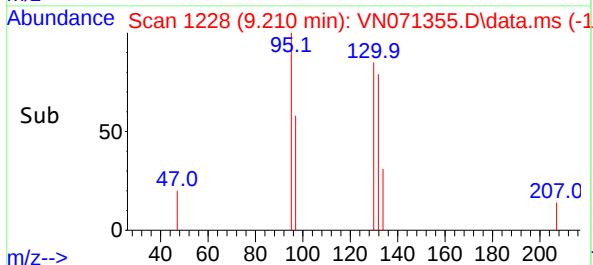
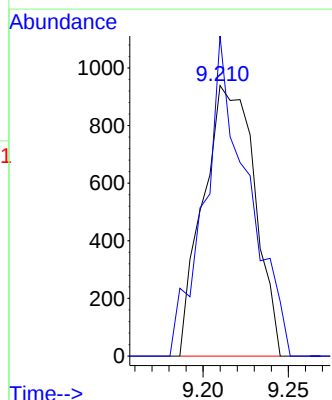
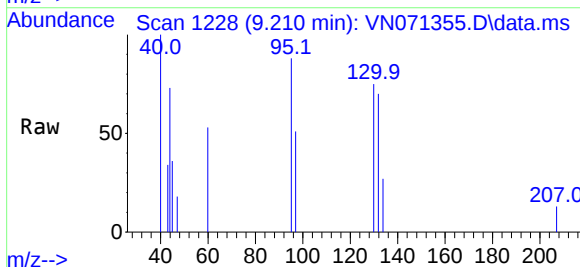
Acq: 17 Mar 2022 16:46

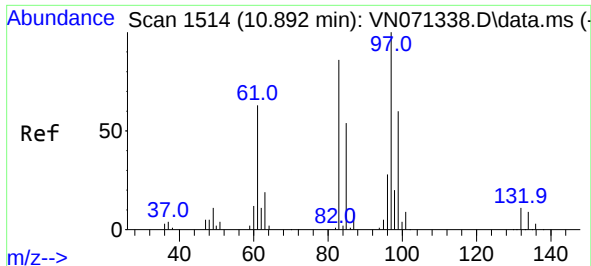
Tgt Ion:130 Resp: 1968

Ion Ratio Lower Upper

130 100

95 98.2 76.6 115.0

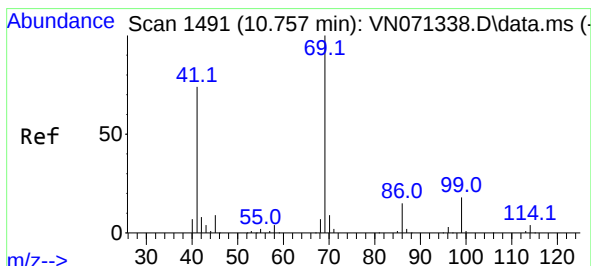
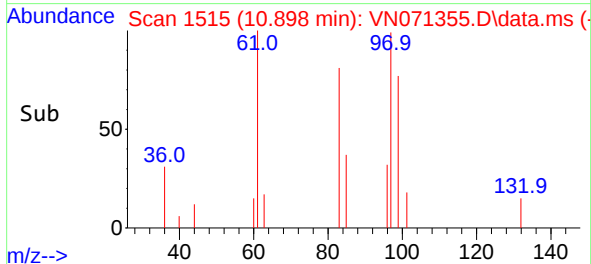
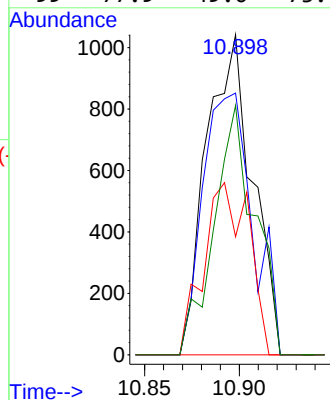
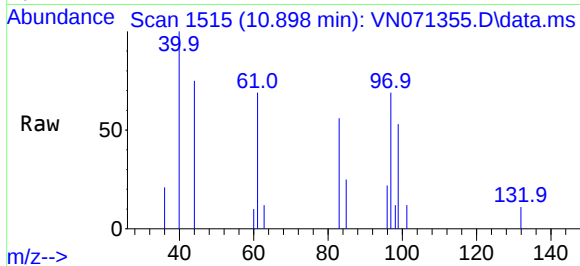




#50  
1,1,2-Trichloroethane  
Concen: 0.243 ug/l  
RT: 10.898 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

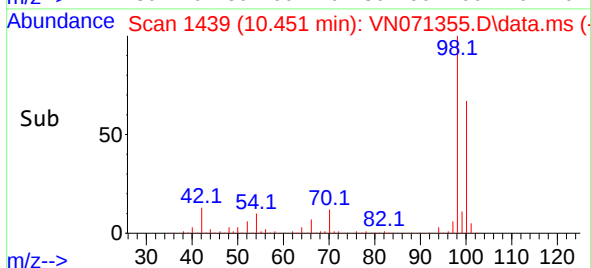
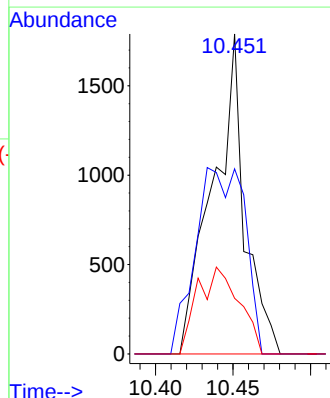
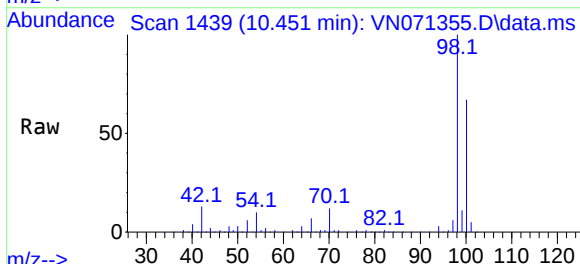
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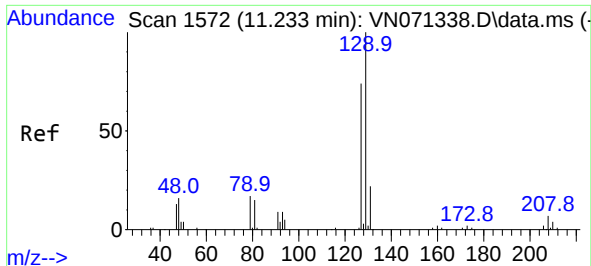
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|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 1757  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 81.8  | 67.2  | 100.8 |
| 85       | 36.9  | 43.0  | 64.4# |
| 99       | 77.9  | 49.0  | 73.4# |



#51  
Ethyl methacrylate  
Concen: 0.205 ug/l  
RT: 10.451 min Scan# 1439  
Delta R.T. -0.306 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 2550  |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 57.8  | 33.0  | 98.9  |
| 39       | 17.4  | 25.4  | 76.4# |

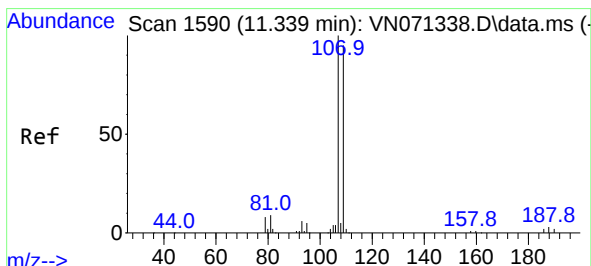
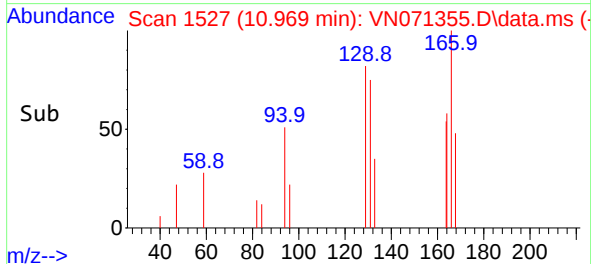
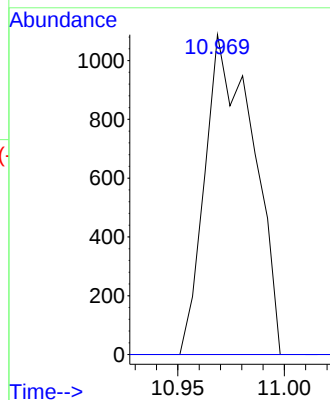
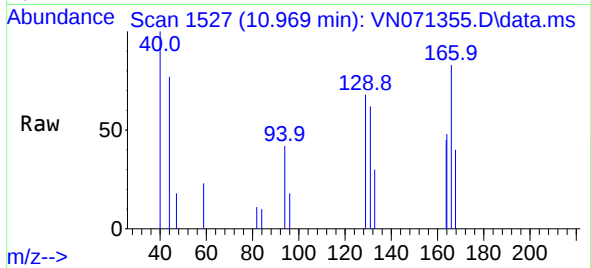




#53  
Dibromochloromethane  
Concen: 0.227 ug/l  
RT: 10.969 min Scan# 11  
Delta R.T. -0.265 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

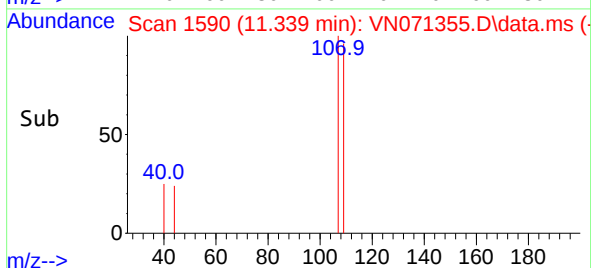
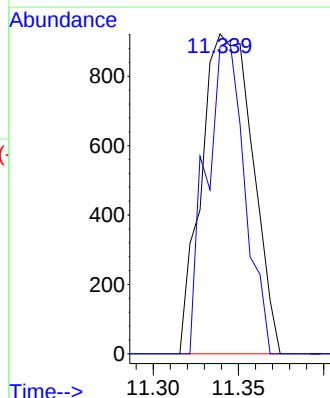
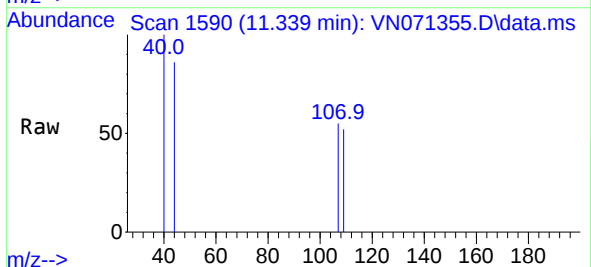
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

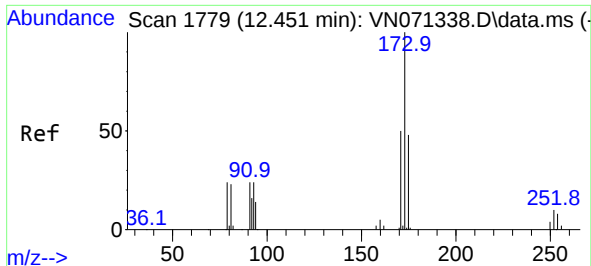
Tgt Ion:129 Resp: 1709  
Ion Ratio Lower Upper  
129 100  
127 0.0 39.0 117.0#



#54  
1,2-Dibromoethane  
Concen: 0.257 ug/l  
RT: 11.339 min Scan# 1590  
Delta R.T. -0.000 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

Tgt Ion:107 Resp: 1927  
Ion Ratio Lower Upper  
107 100  
109 73.3 72.8 109.2

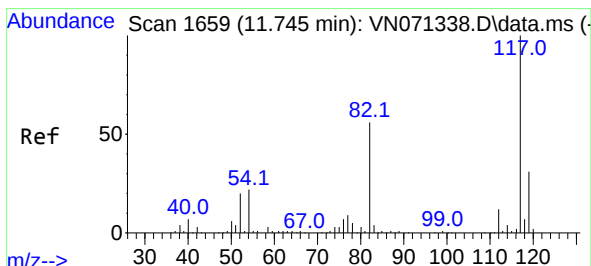
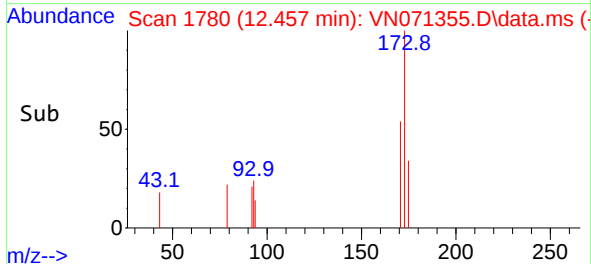
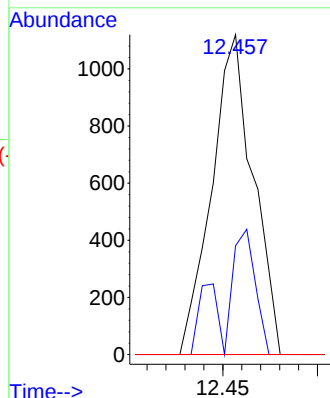
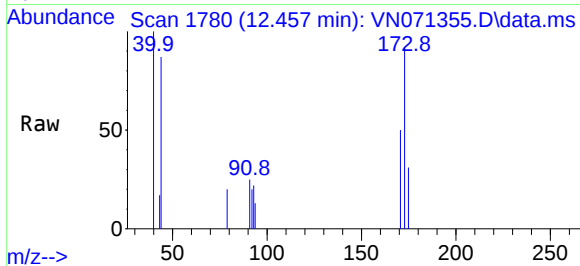




#56  
Bromoform  
Concen: 0.293 ug/l  
RT: 12.457 min Scan# 1703  
Delta R.T. 0.006 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

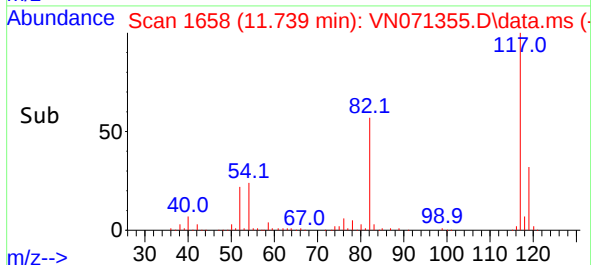
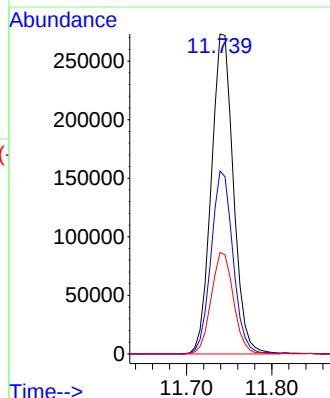
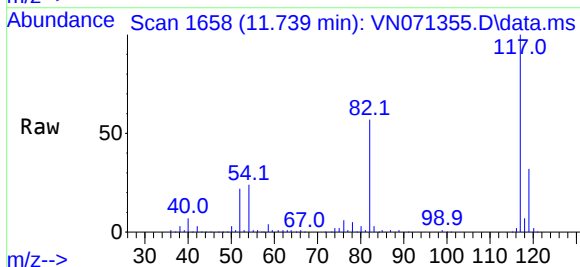
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ClientSampleId :  
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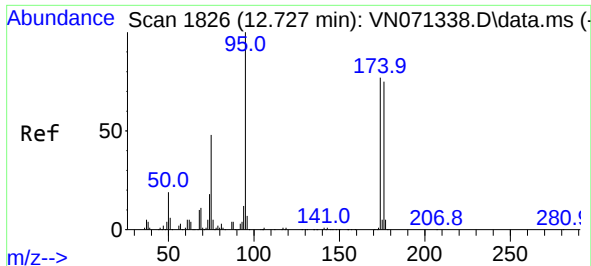
Tgt Ion:173 Resp: 1703  
Ion Ratio Lower Upper  
173 100  
175 21.0 38.6 58.0#  
254 0.0 0.0 0.0



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.739 min Scan# 1658  
Delta R.T. -0.006 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

Tgt Ion:117 Resp: 493136  
Ion Ratio Lower Upper  
117 100  
82 56.9 43.6 65.4  
119 32.0 25.8 38.6

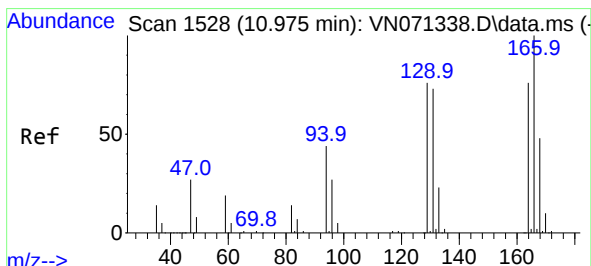
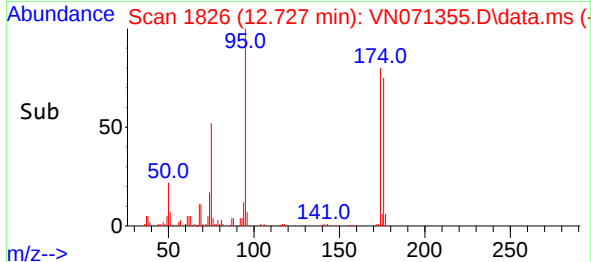
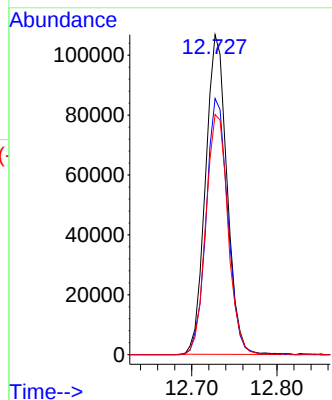
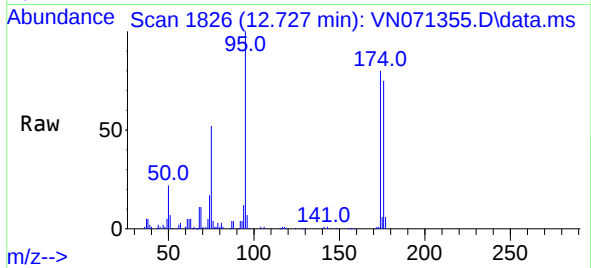




#60  
4-Bromofluorobenzene  
Concen: 24.493 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. -0.000 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

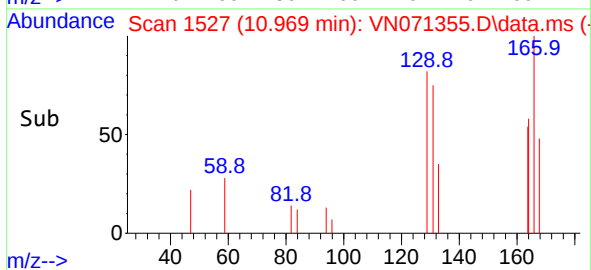
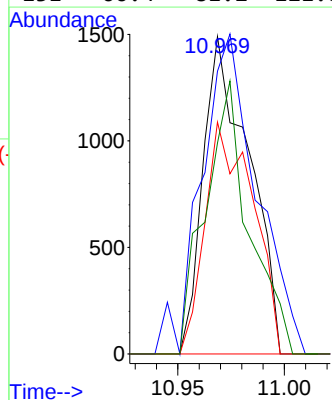
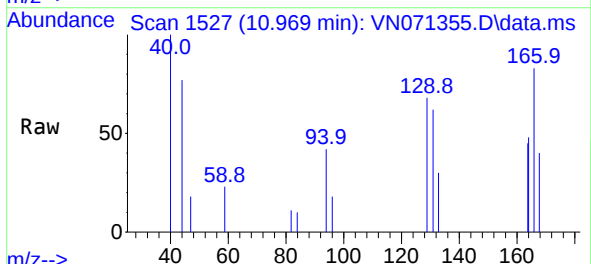
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ClientSampleId :  
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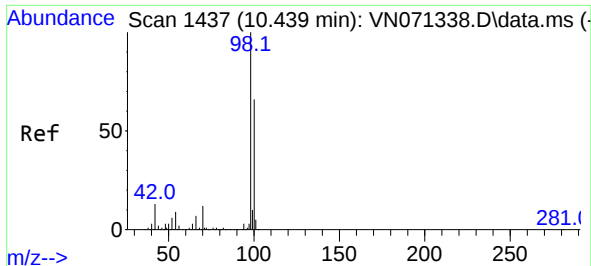
Tgt Ion: 95 Resp: 186605  
Ion Ratio Lower Upper  
95 100  
174 80.7 62.9 94.3  
176 77.5 61.0 91.4



#61  
Tetrachloroethene  
Concen: 0.415 ug/l  
RT: 10.969 min Scan# 1527  
Delta R.T. -0.006 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

Tgt Ion: 164 Resp: 2231  
Ion Ratio Lower Upper  
164 100  
166 89.1 105.8 158.8#  
129 73.0 82.5 123.7#  
131 66.4 81.2 121.8#

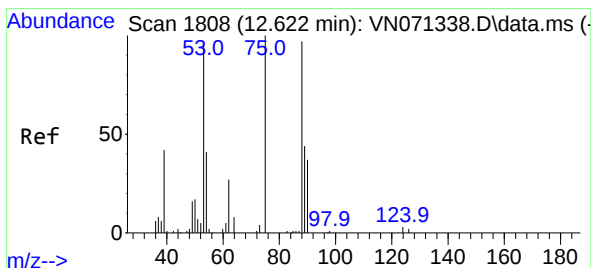
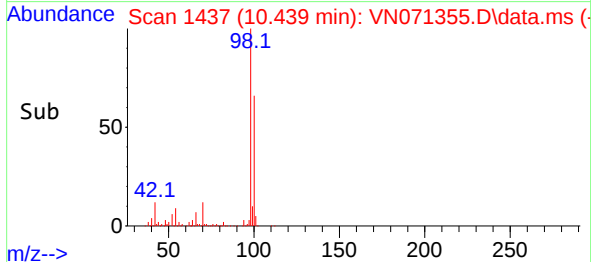
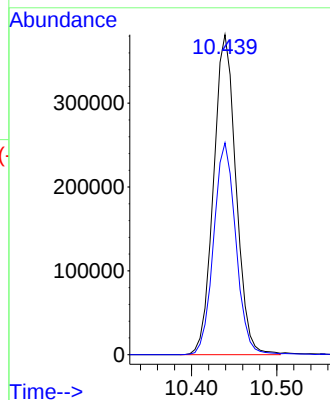
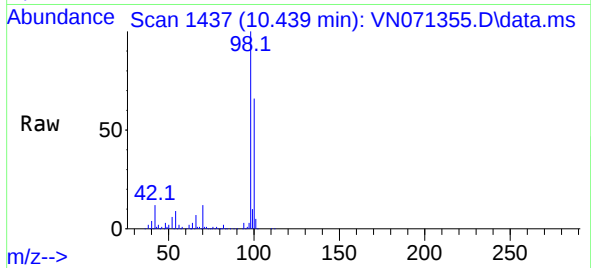




#63  
Toluene-d8  
Concen: 30.796 ug/l  
RT: 10.439 min Scan# 1437  
Delta R.T. -0.000 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

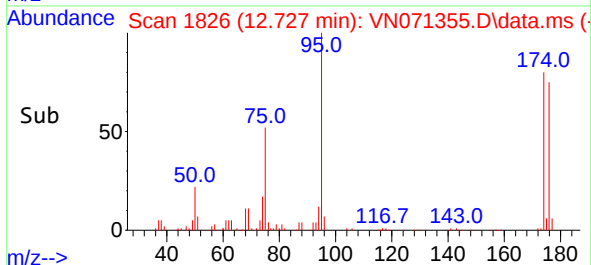
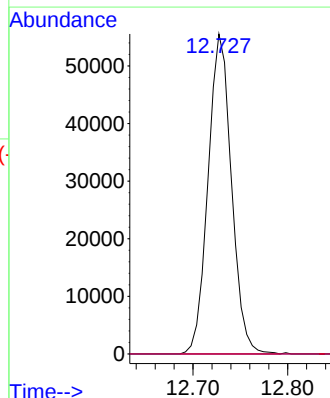
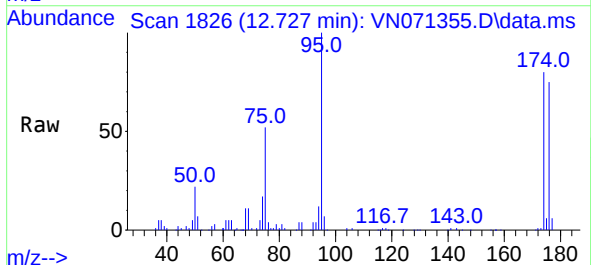
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ClientSampleId :  
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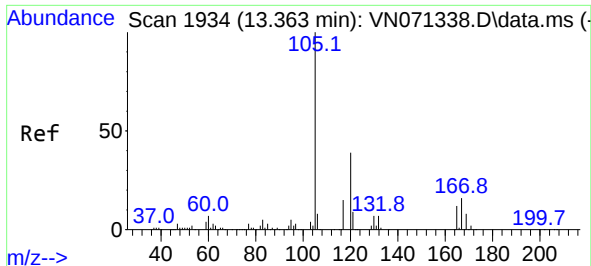
Tgt Ion: 98 Resp: 698618  
Ion Ratio Lower Upper  
98 100  
100 65.3 50.6 76.0



#77  
t-1,4-Dichloro-2-butene  
Concen: 30.687 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.106 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

Tgt Ion: 75 Resp: 95242  
Ion Ratio Lower Upper  
75 100  
53 0.0 51.8 155.5#  
89 0.0 22.9 68.7#

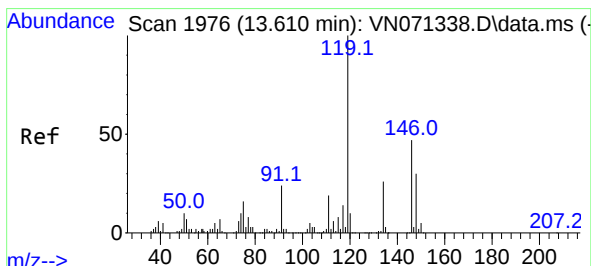
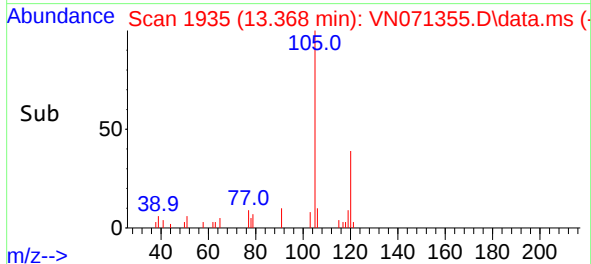
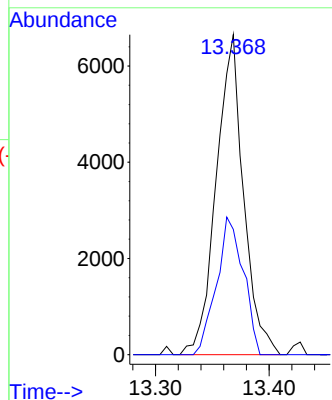
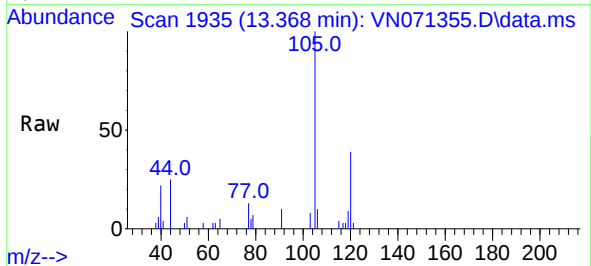




#80  
1,2,4-Trimethylbenzene  
Concen: 0.486 ug/l  
RT: 13.368 min Scan# 1934  
Delta R.T. 0.006 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

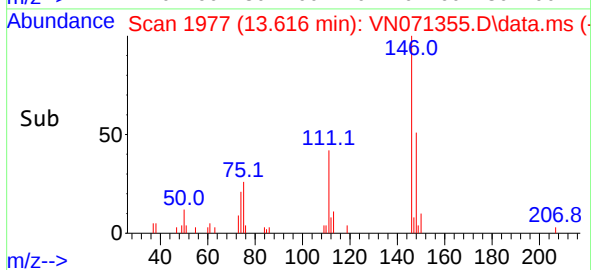
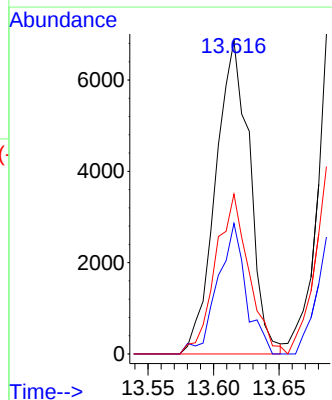
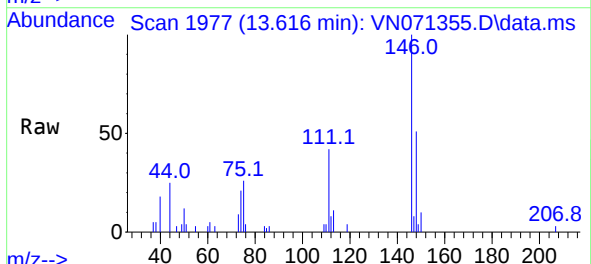
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MSVOA\_N  
ClientSampleId :  
IBLK

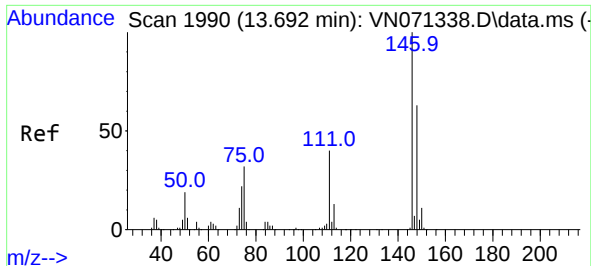
Tgt Ion:105 Resp: 11122  
Ion Ratio Lower Upper  
105 100  
120 42.1 0.0 0.2#



#83  
1,3-Dichlorobenzene  
Concen: 1.091 ug/l  
RT: 13.616 min Scan# 1977  
Delta R.T. 0.006 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

Tgt Ion:146 Resp: 12399  
Ion Ratio Lower Upper  
146 100  
111 33.6 20.8 62.2  
148 50.0 31.4 94.3

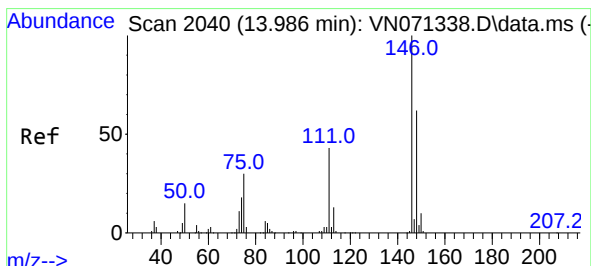
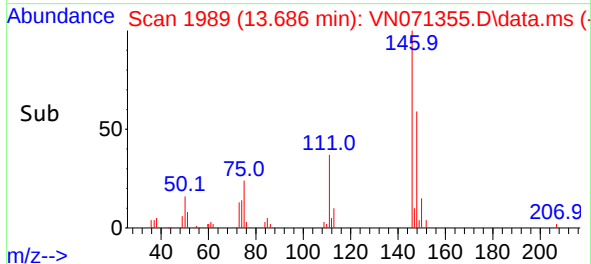
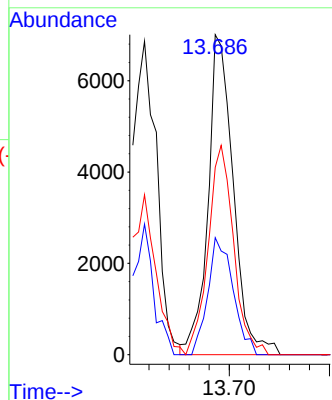
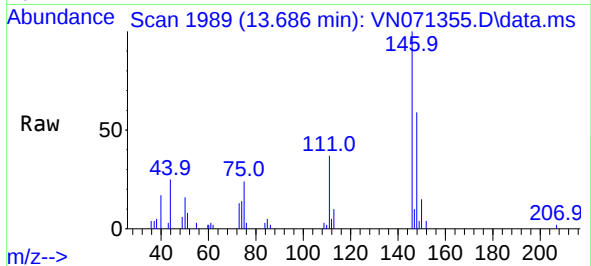




#84  
1,4-Dichlorobenzene  
Concen: 1.136 ug/l  
RT: 13.686 min Scan# 1989  
Delta R.T. -0.006 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

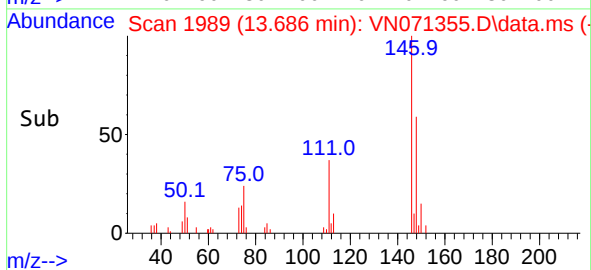
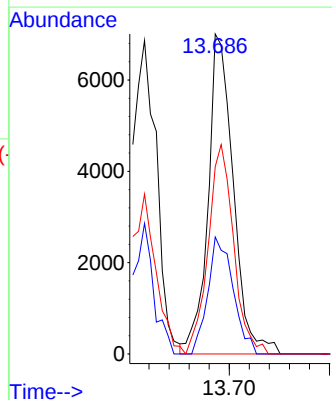
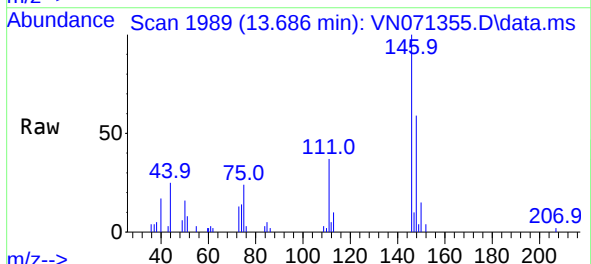
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

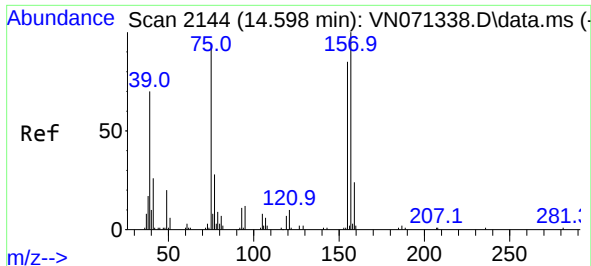
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 12285 |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 36.5  | 19.5  | 58.5  |
| 148      | 65.9  | 31.1  | 93.5  |



#87  
1,2-Dichlorobenzene  
Concen: 1.115 ug/l  
RT: 13.686 min Scan# 1989  
Delta R.T. -0.300 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 12285 |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 36.5  | 21.4  | 64.2  |
| 148      | 65.9  | 32.5  | 97.4  |

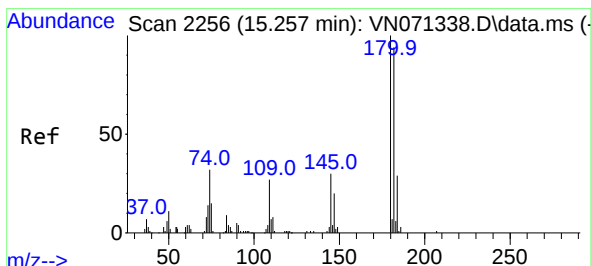
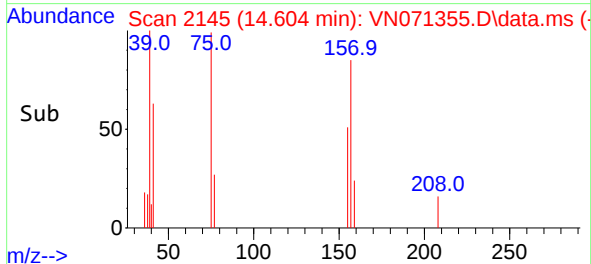
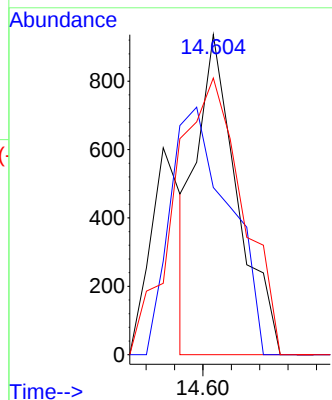
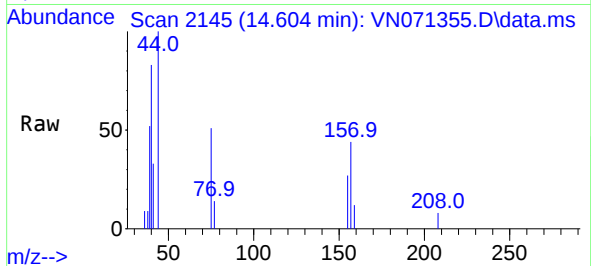




#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 0.465 ug/l  
 RT: 14.604 min Scan# 2144  
 Delta R.T. 0.006 min  
 Lab File: VN071355.D  
 Acq: 17 Mar 2022 16:46

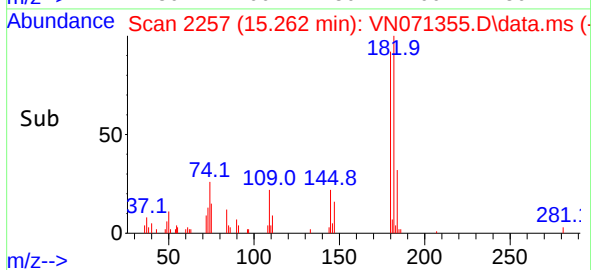
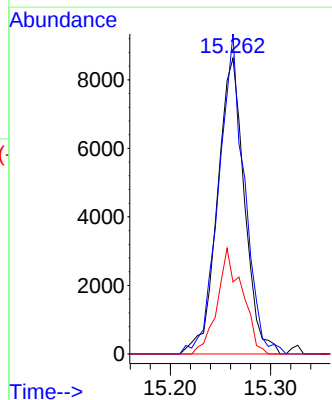
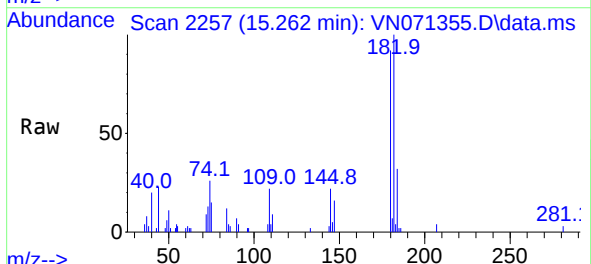
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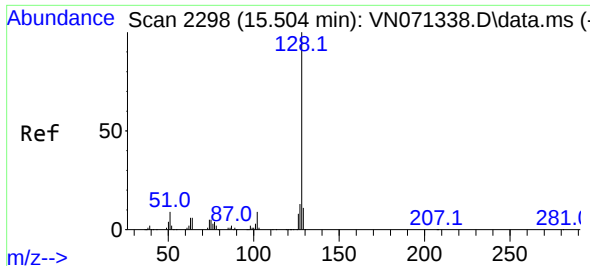
Tgt Ion: 75 Resp: 921  
 Ion Ratio Lower Upper  
 75 100  
 155 113.6 63.8 95.8#  
 157 146.1 77.9 116.9#



#89  
 1,2,4-Trichlorobenzene  
 Concen: 3.164 ug/l  
 RT: 15.262 min Scan# 2257  
 Delta R.T. 0.006 min  
 Lab File: VN071355.D  
 Acq: 17 Mar 2022 16:46

Tgt Ion: 180 Resp: 16149  
 Ion Ratio Lower Upper  
 180 100  
 182 101.9 77.7 116.5  
 145 32.9 26.6 39.8

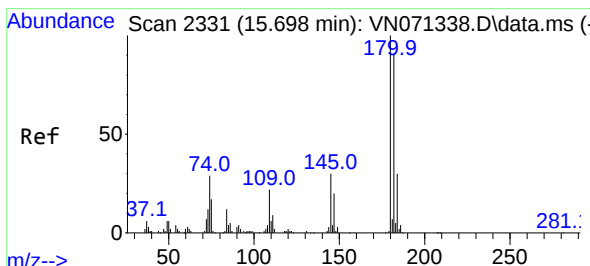
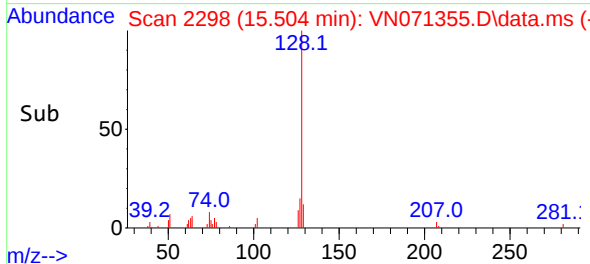
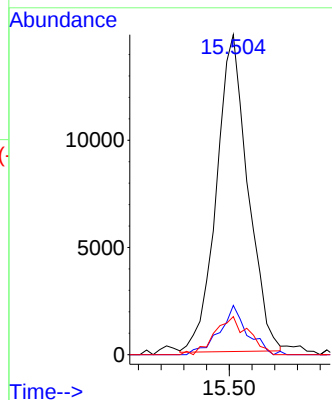
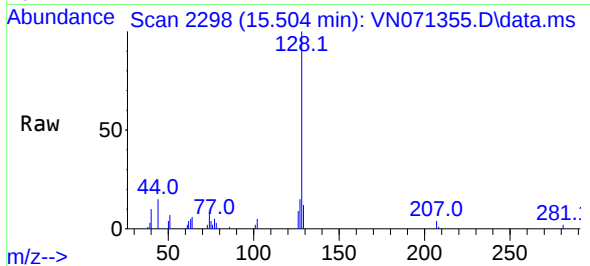




#91  
Naphthalene  
Concen: 1.782 ug/l  
RT: 15.504 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

Tgt Ion:128 Resp: 28463  
Ion Ratio Lower Upper  
128 100  
127 9.4 10.7 16.1#  
129 9.1 9.0 13.6



#92  
1,2,3-Trichlorobenzene  
Concen: 3.085 ug/l  
RT: 15.262 min Scan# 2257  
Delta R.T. -0.435 min  
Lab File: VN071355.D  
Acq: 17 Mar 2022 16:46

Tgt Ion:180 Resp: 16149  
Ion Ratio Lower Upper  
180 100  
182 101.9 0.0 190.0  
145 32.9 0.0 67.8

