

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN082622\  
 Data File : VN074143.D  
 Acq On : 26 Aug 2022 18:13  
 Operator : JC\MD  
 Sample : N4297-06  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 DUP03-20220820

Quant Time: Aug 27 00:22:12 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081522W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 26 06:44:47 2022  
 Response via : Initial Calibration

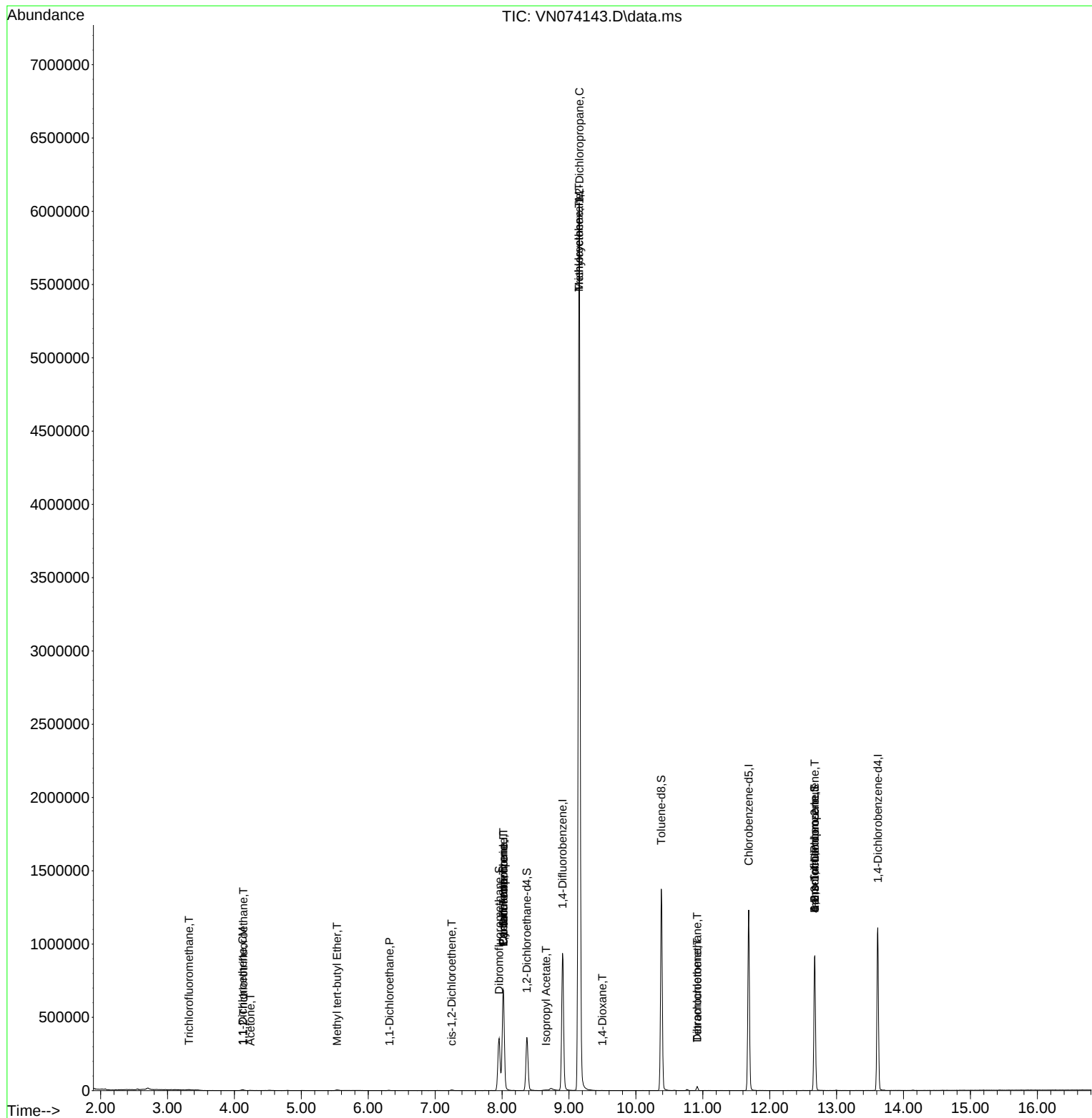
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 8.022  | 168   | 575695   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.904  | 114   | 874860   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.686 | 117   | 741190   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.616 | 152   | 322413   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.369  | 65    | 305685   | 54.516    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 109.040% |          |
| 35) Dibromofluoromethane      | 7.957  | 113   | 265040   | 51.227    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 102.460% |          |
| 50) Toluene-d8                | 10.380 | 98    | 981315   | 48.973    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 97.940%  |          |
| 62) 4-Bromofluorobenzene      | 12.669 | 95    | 304988   | 45.862    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 91.720%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           |            | Qvalue   |
| 7) Trichlorofluoromethane     | 3.322  | 101   | 2802     | 0.333     | ug/l       | 95       |
| 9) 1,1,2-Trichlorotrifluo...  | 4.134  | 101   | 1649     | 0.338     | ug/l #     | 87       |
| 12) 1,1-Dichloroethene        | 4.122  | 96    | 2968     | 0.653     | ug/l #     | 86       |
| 16) Acetone                   | 4.240  | 43    | 3144     | 1.188     | ug/l       | 90       |
| 18) Methyl Acetate            | 4.787  | 43    | 2728     | Below Cal | #          | 78       |
| 19) Methyl tert-butyl Ether   | 5.534  | 73    | 5856     | 0.358     | ug/l       | 95       |
| 24) 1,1-Dichloroethane        | 6.316  | 63    | 3586     | 0.404     | ug/l #     | 82       |
| 27) cis-1,2-Dichloroethene    | 7.245  | 96    | 3234     | 0.524     | ug/l       | 67       |
| 31) Cyclohexane               | 8.016  | 56    | 9335     | 1.194     | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 8.022  | 75    | 38694    | 5.384     | ug/l #     | 48       |
| 38) Carbon Tetrachloride      | 8.022  | 117   | 51066    | 6.217     | ug/l #     | 17       |
| 39) Methylcyclohexane         | 9.151  | 83    | 26584    | 2.952     | ug/l #     | 1        |
| 43) Isopropyl Acetate         | 8.657  | 43    | 4231     | 0.341     | ug/l #     | 53       |
| 44) Trichloroethene           | 9.151  | 130   | 2377400  | 362.910   | ug/l       | 99       |
| 45) 1,2-Dichloropropane       | 9.157  | 63    | 4635     | 0.853     | ug/l #     | 1        |
| 49) 1,4-Dioxane               | 9.498  | 88    | 55       | 0.349     | ug/l #     | 1        |
| 60) Dibromochloromethane      | 10.916 | 129   | 5173     | 0.773     | ug/l #     | 11       |
| 64) Tetrachloroethene         | 10.916 | 164   | 6402     | 1.094     | ug/l       | 95       |
| 71) Bromoform                 | 12.669 | 173   | 1719     | 0.323     | ug/l #     | 28       |
| 76) 1,2,3-Trichloropropane    | 12.674 | 75    | 149668   | 22.334    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.674 | 75    | 149668   | 63.522    | ug/l #     | 10       |
| -----                         |        |       |          |           |            |          |

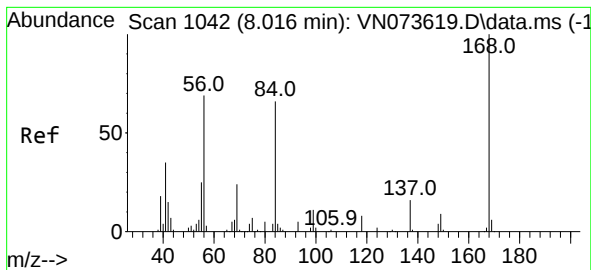
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.022 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN074143.D

Acq: 26 Aug 2022 18:13

Instrument :

MSVOA\_N

ClientSampleId :

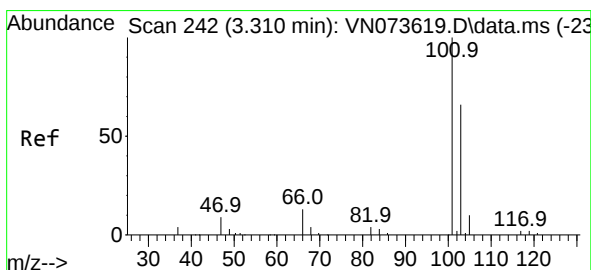
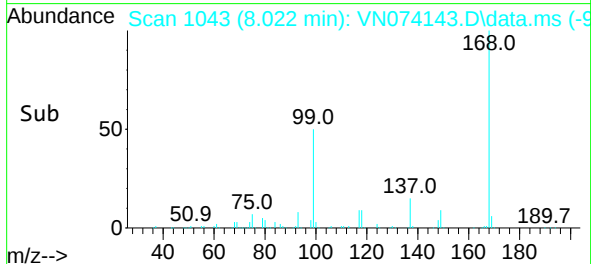
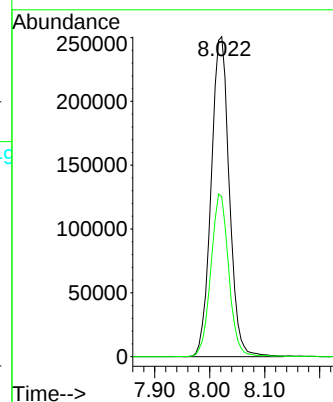
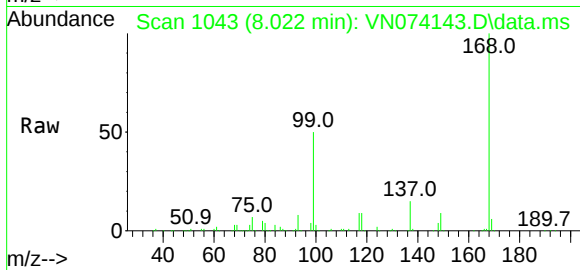
DUP03-20220820

Tgt Ion:168 Resp: 575695

Ion Ratio Lower Upper

168 100

99 49.8 42.3 63.5



#7

Trichlorofluoromethane

Concen: 0.333 ug/l

RT: 3.322 min Scan# 244

Delta R.T. 0.012 min

Lab File: VN074143.D

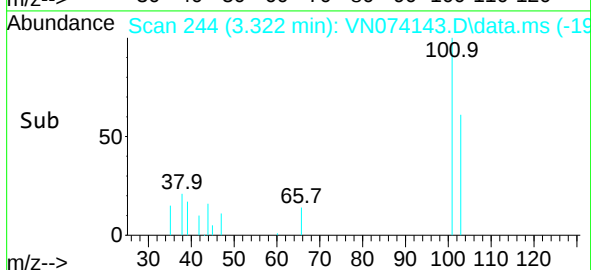
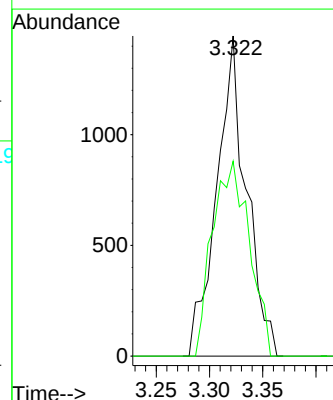
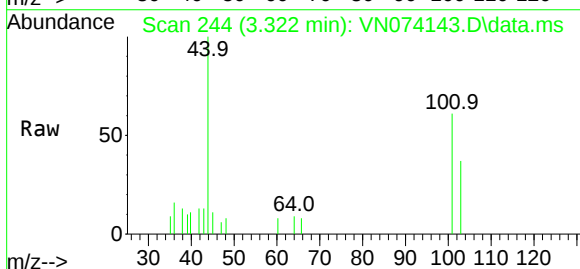
Acq: 26 Aug 2022 18:13

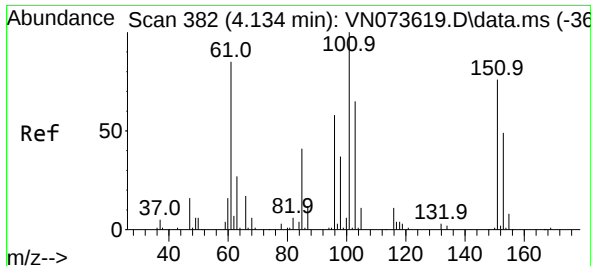
Tgt Ion:101 Resp: 2802

Ion Ratio Lower Upper

101 100

103 60.9 51.5 77.3

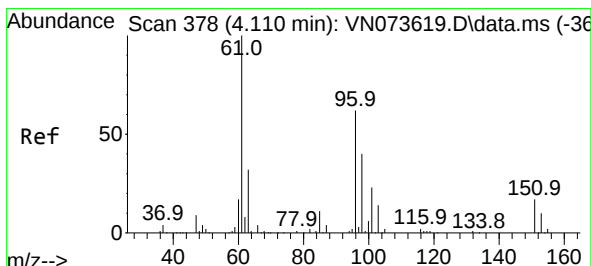
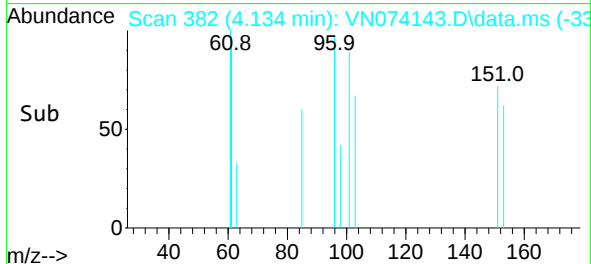
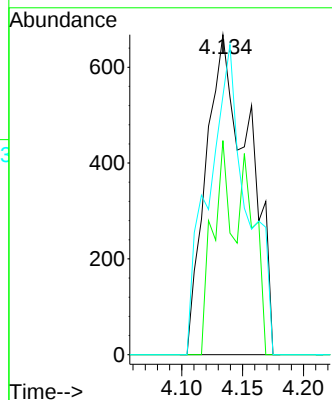
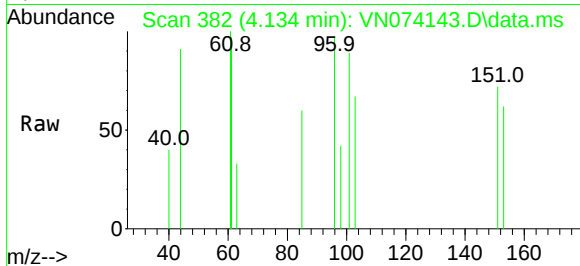




#9  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.338 ug/l  
 RT: 4.134 min Scan# 31  
 Delta R.T. -0.000 min  
 Lab File: VN074143.D  
 Acq: 26 Aug 2022 18:13

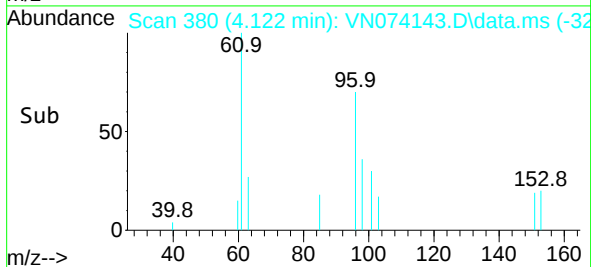
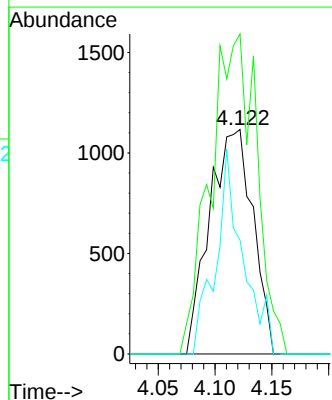
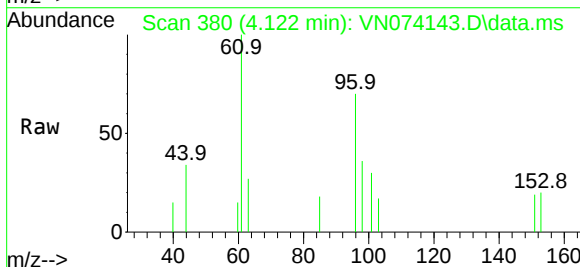
Instrument :  
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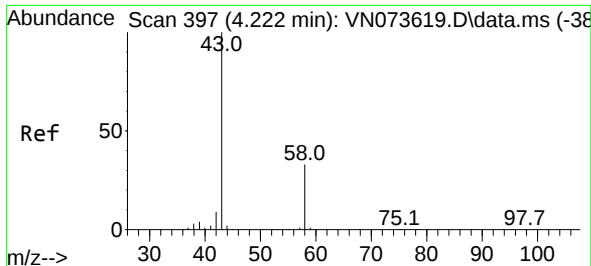
Tgt Ion:101 Resp: 1649  
 Ion Ratio Lower Upper  
 101 100  
 85 31.1 34.7 52.1#  
 151 86.6 63.0 94.4



#12  
 1,1-Dichloroethene  
 Concen: 0.653 ug/l  
 RT: 4.122 min Scan# 380  
 Delta R.T. 0.012 min  
 Lab File: VN074143.D  
 Acq: 26 Aug 2022 18:13

Tgt Ion: 96 Resp: 2968  
 Ion Ratio Lower Upper  
 96 100  
 61 142.5 127.6 191.4  
 98 50.8 51.2 76.8#

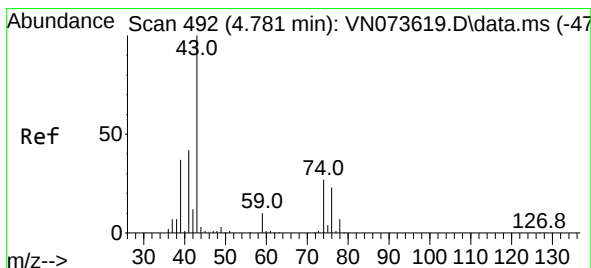
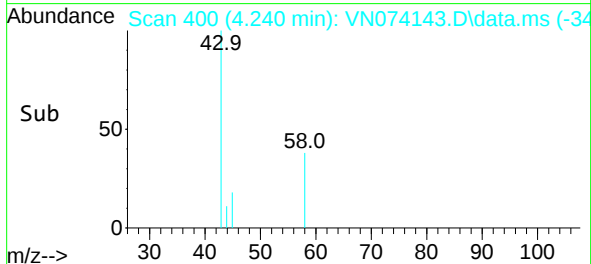
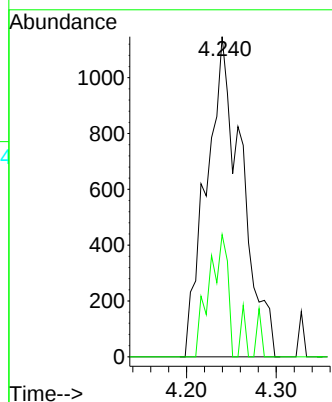
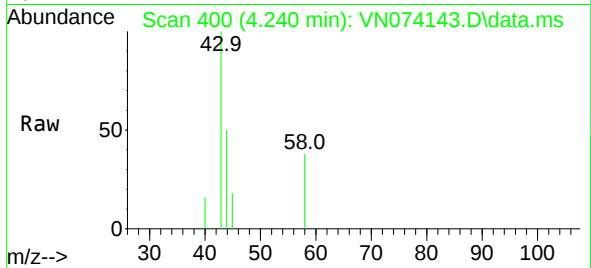




#16  
Acetone  
Concen: 1.188 ug/l  
RT: 4.240 min Scan# 40  
Delta R.T. 0.018 min  
Lab File: VN074143.D  
Acq: 26 Aug 2022 18:13

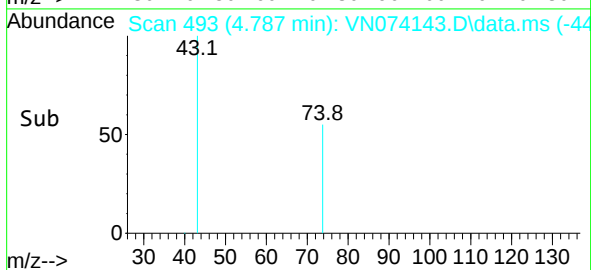
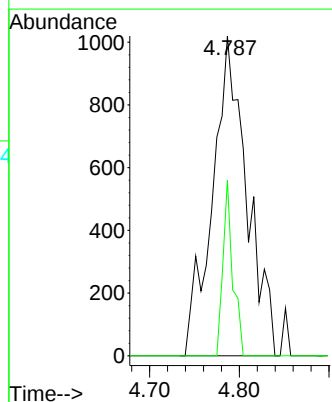
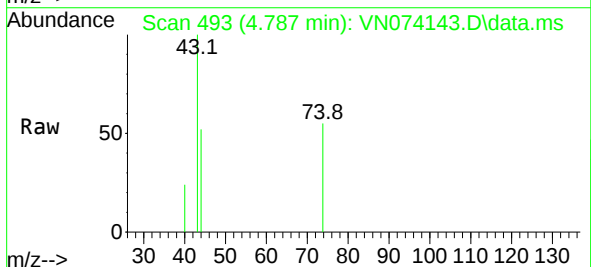
Instrument :  
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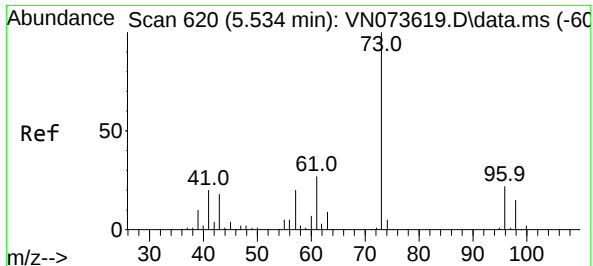
Tgt Ion: 43 Resp: 3144  
Ion Ratio Lower Upper  
43 100  
58 38.2 26.0 39.0



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.787 min Scan# 493  
Delta R.T. 0.006 min  
Lab File: VN074143.D  
Acq: 26 Aug 2022 18:13

Tgt Ion: 43 Resp: 2728  
Ion Ratio Lower Upper  
43 100  
74 15.6 21.6 32.4#

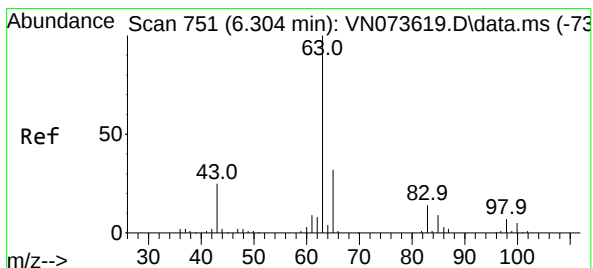
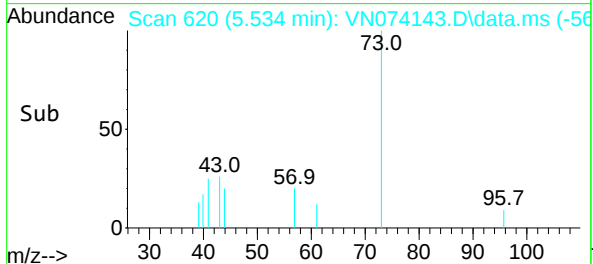
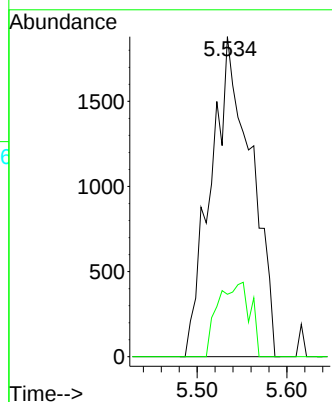
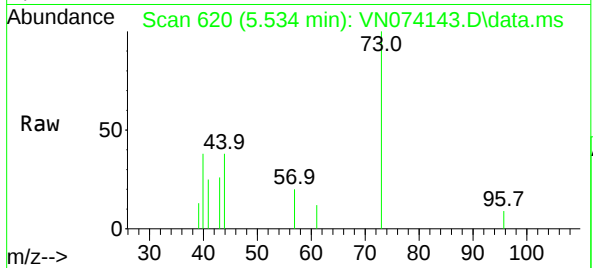




#19  
Methyl tert-butyl Ether  
Concen: 0.358 ug/l  
RT: 5.534 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VN074143.D  
Acq: 26 Aug 2022 18:13

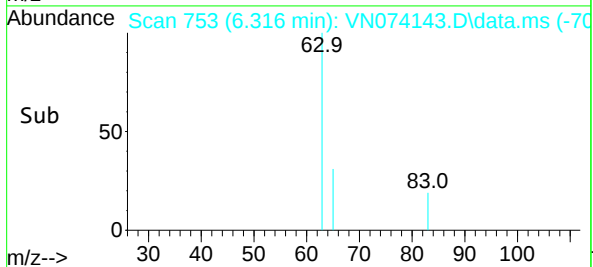
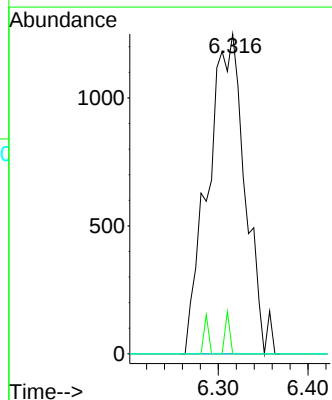
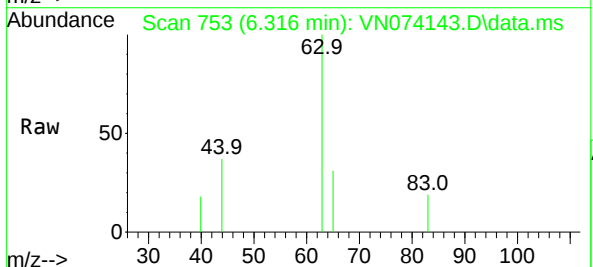
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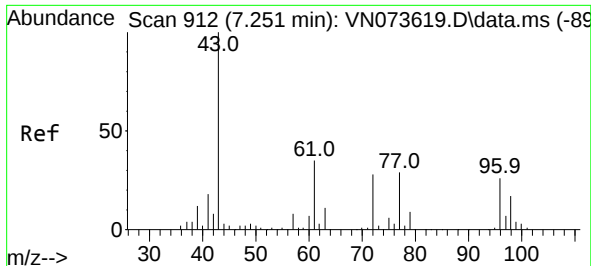
Tgt Ion: 73 Resp: 5856  
Ion Ratio Lower Upper  
73 100  
57 19.5 17.6 26.4



#24  
1,1-Dichloroethane  
Concen: 0.404 ug/l  
RT: 6.316 min Scan# 753  
Delta R.T. 0.012 min  
Lab File: VN074143.D  
Acq: 26 Aug 2022 18:13

Tgt Ion: 63 Resp: 3586  
Ion Ratio Lower Upper  
63 100  
98 0.0 3.5 10.4#  
100 0.0 2.3 6.8#





#27

cis-1,2-Dichloroethene

Concen: 0.524 ug/l

RT: 7.245 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN074143.D

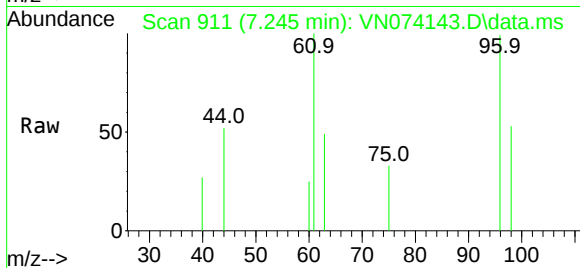
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ClientSampleId :

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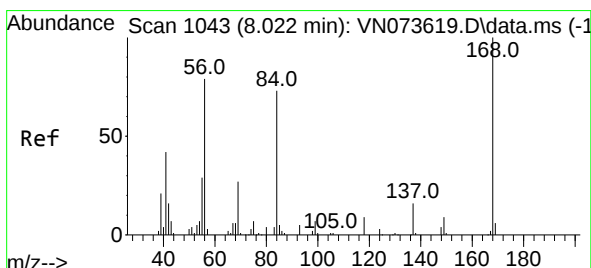
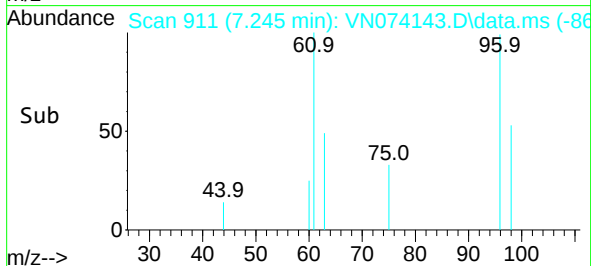
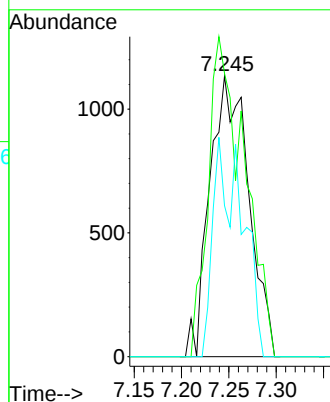
Tgt Ion: 96 Resp: 3234

Ion Ratio Lower Upper

96 100

61 106.2 0.0 280.6

98 30.8 0.0 128.4



#31

Cyclohexane

Concen: 1.194 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.006 min

Lab File: VN074143.D

Acq: 26 Aug 2022 18:13

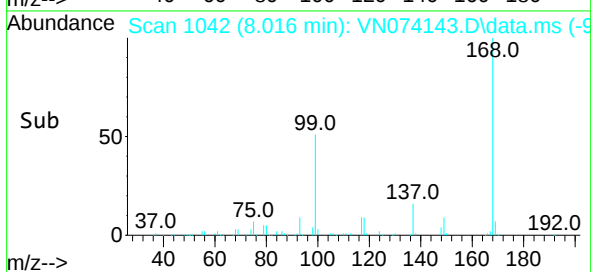
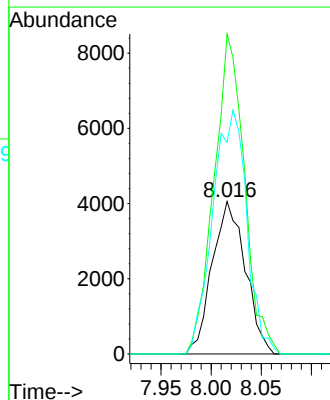
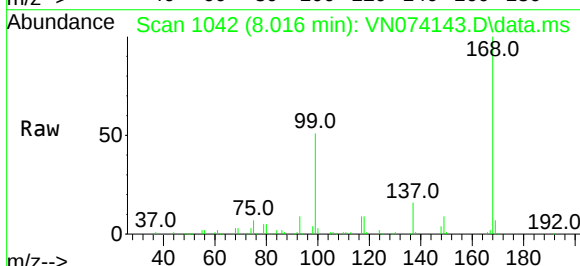
Tgt Ion: 56 Resp: 9335

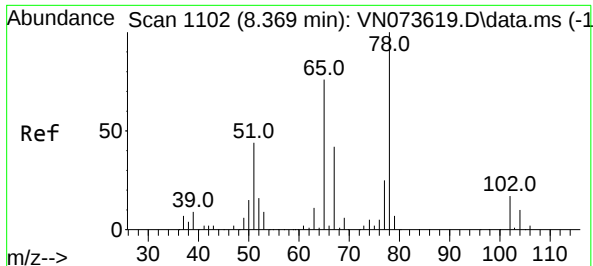
Ion Ratio Lower Upper

56 100

69 209.9 27.8 41.8#

84 138.8 76.9 115.3#





#33

1,2-Dichloroethane-d4

Concen: 54.516 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VN074143.D

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Instrument :

MSVOA\_N

ClientSampleId :

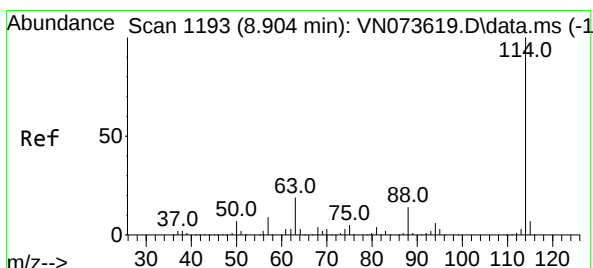
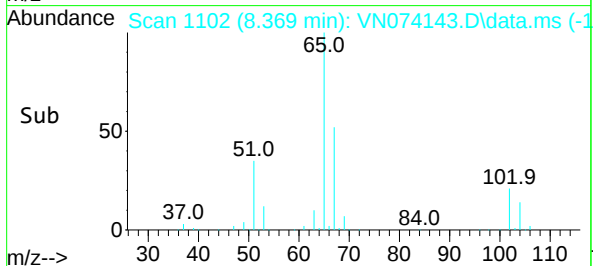
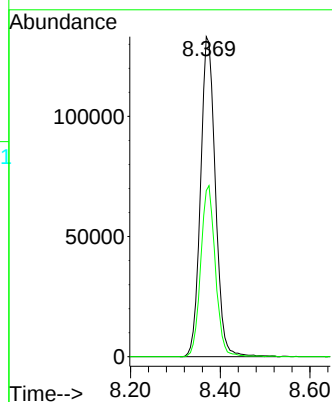
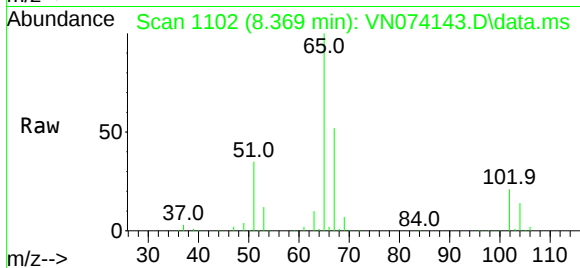
DUP03-20220820

Tgt Ion: 65 Resp: 305685

Ion Ratio Lower Upper

65 100

67 52.6 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: VN074143.D

Acq: 26 Aug 2022 18:13

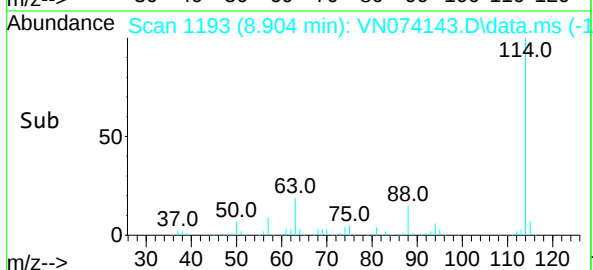
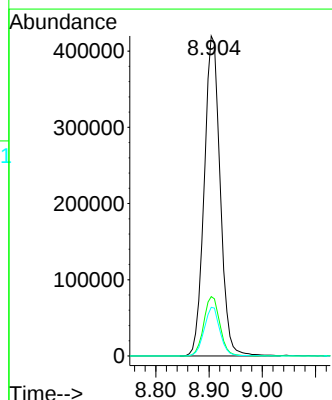
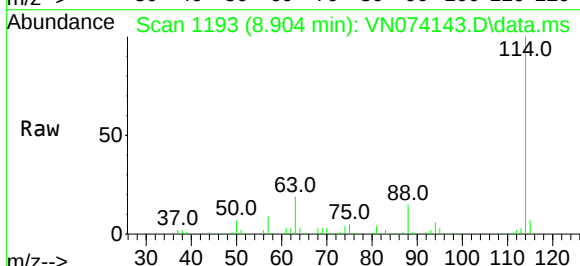
Tgt Ion: 114 Resp: 874860

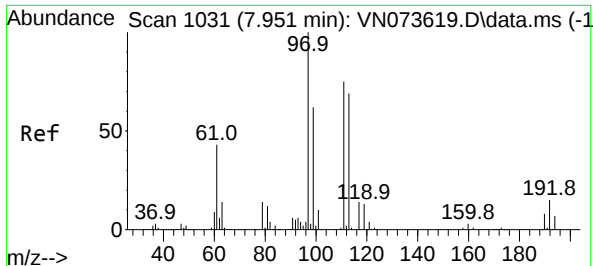
Ion Ratio Lower Upper

114 100

63 18.6 0.0 40.0

88 15.2 0.0 32.6





#35

Dibromofluoromethane

Concen: 51.227 ug/l

RT: 7.957 min Scan# 1043

Delta R.T. 0.006 min

Lab File: VN074143.D

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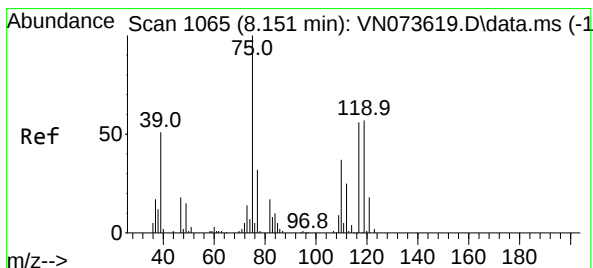
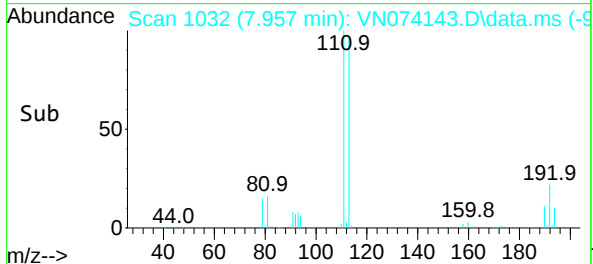
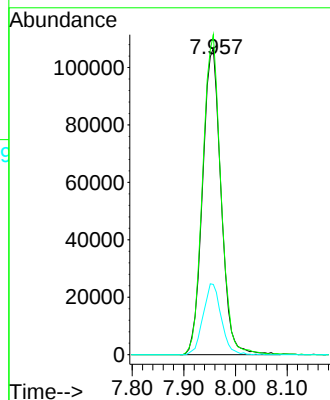
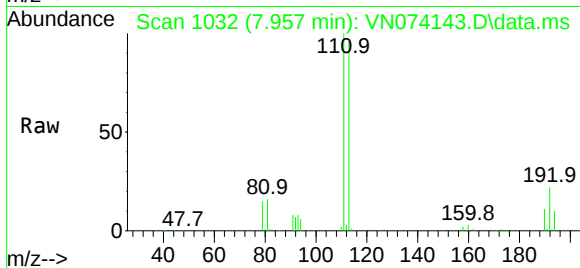
Tgt Ion:113 Resp: 265040

Ion Ratio Lower Upper

113 100

111 102.8 81.4 122.0

192 22.6 17.0 25.6



#36

1,1-Dichloropropene

Concen: 5.384 ug/l

RT: 8.022 min Scan# 1043

Delta R.T. -0.129 min

Lab File: VN074143.D

Acq: 26 Aug 2022 18:13

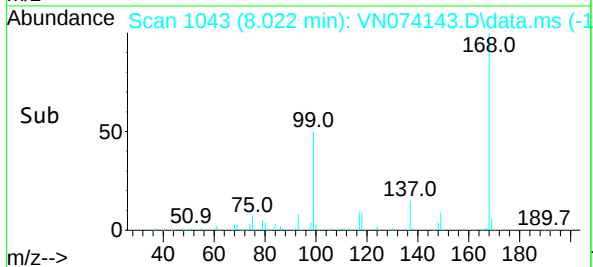
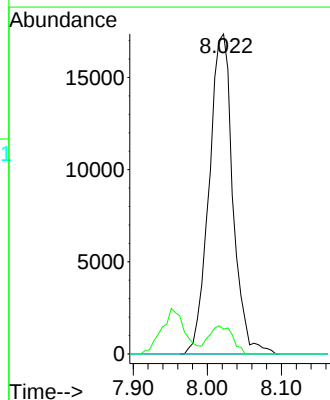
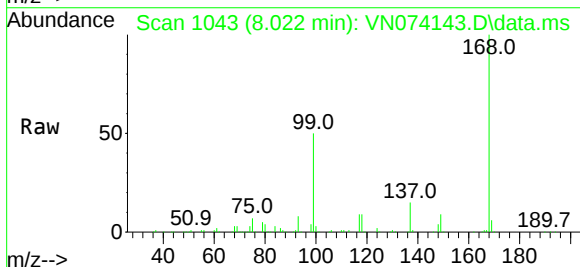
Tgt Ion: 75 Resp: 38694

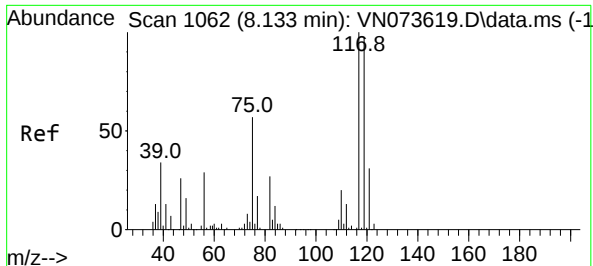
Ion Ratio Lower Upper

75 100

110 8.6 18.3 54.8#

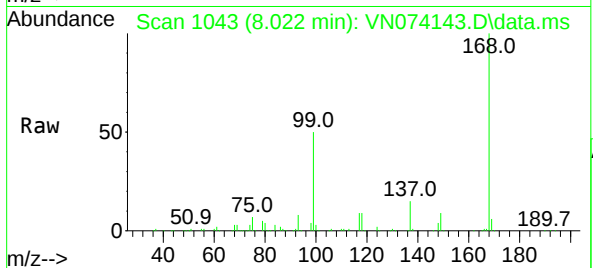
77 0.0 25.1 37.7#



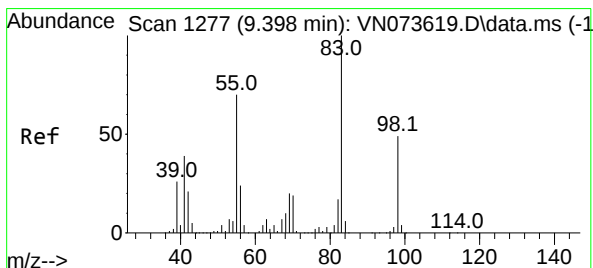
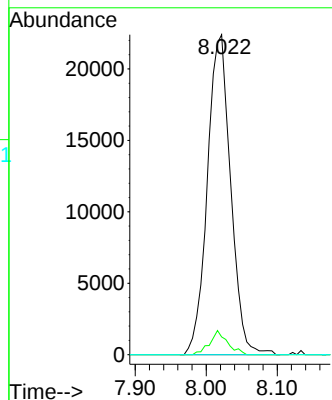
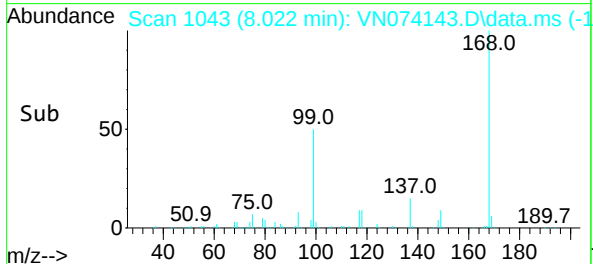


#38  
Carbon Tetrachloride  
Concen: 6.217 ug/l  
RT: 8.022 min Scan# 117  
Delta R.T. -0.111 min  
Lab File: VN074143.D  
Acq: 26 Aug 2022 18:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
DUP03-20220820

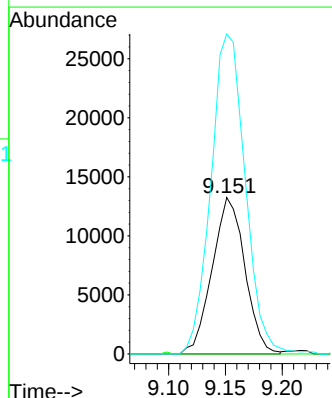
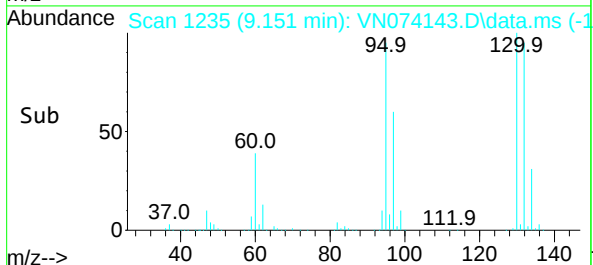
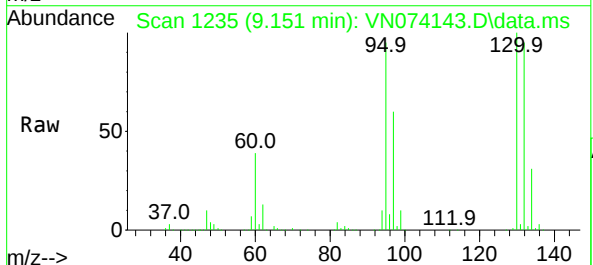


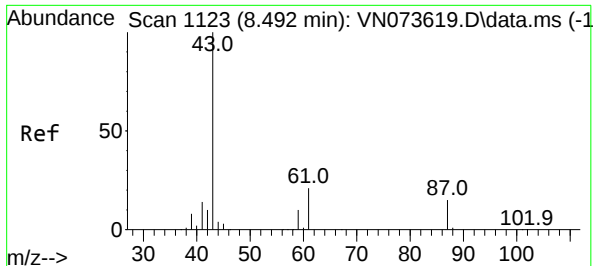
Tgt Ion:117 Resp: 51066  
Ion Ratio Lower Upper  
117 100  
119 5.6 75.8 113.8#  
121 0.0 24.6 37.0#



#39  
Methylcyclohexane  
Concen: 2.952 ug/l  
RT: 9.151 min Scan# 1235  
Delta R.T. -0.247 min  
Lab File: VN074143.D  
Acq: 26 Aug 2022 18:13

Tgt Ion: 83 Resp: 26584  
Ion Ratio Lower Upper  
83 100  
55 0.0 57.8 86.8#  
98 204.5 39.4 59.2#





#43

Isopropyl Acetate

Concen: 0.341 ug/l

RT: 8.657 min Scan# 1151

Delta R.T. 0.165 min

Lab File: VN074143.D

Acq: 26 Aug 2022 18:13

Instrument :

MSVOA\_N

ClientSampleId :

DUP03-20220820

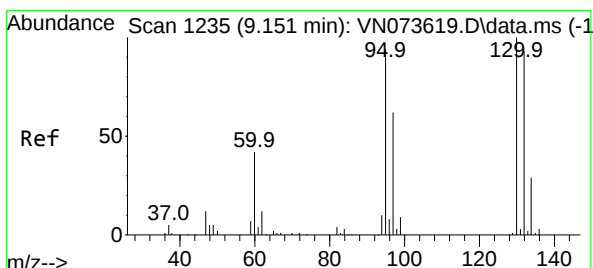
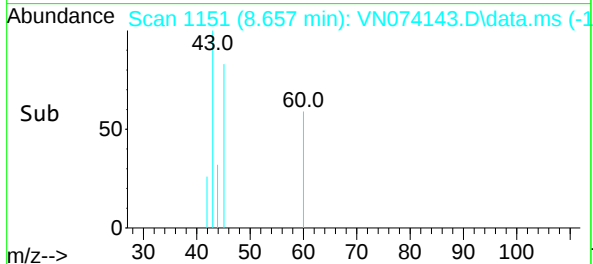
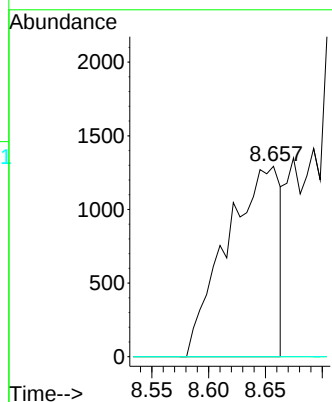
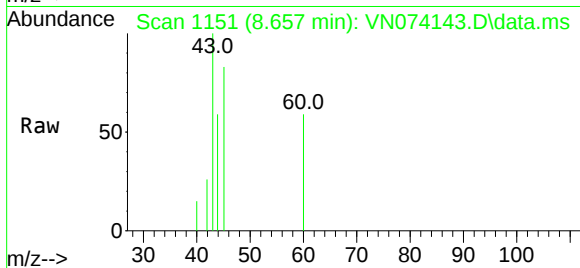
Tgt Ion: 43 Resp: 4231

Ion Ratio Lower Upper

43 100

61 0.0 21.9 32.9#

87 0.0 12.0 18.0#



#44

Trichloroethene

Concen: 362.910 ug/l

RT: 9.151 min Scan# 1235

Delta R.T. 0.000 min

Lab File: VN074143.D

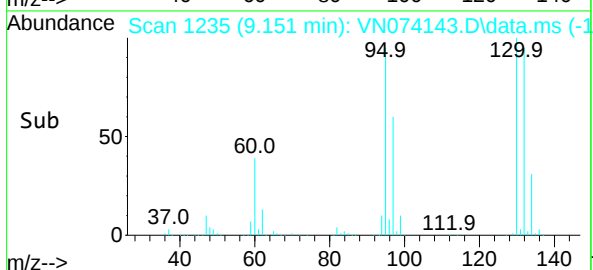
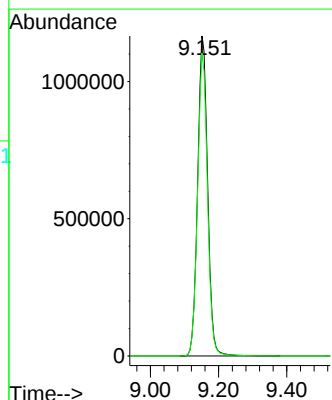
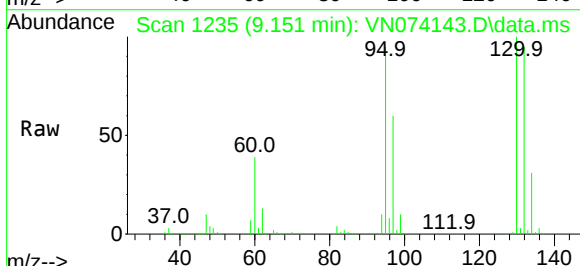
Acq: 26 Aug 2022 18:13

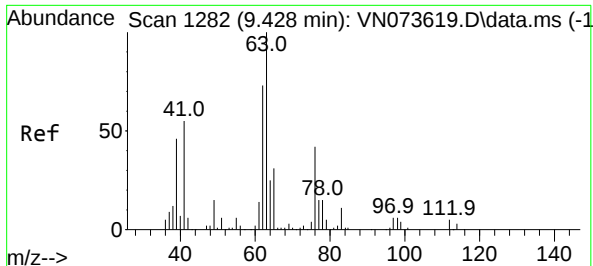
Tgt Ion:130 Resp: 2377400

Ion Ratio Lower Upper

130 100

95 94.6 0.0 186.8





#45

1,2-Dichloropropane

Concen: 0.853 ug/l

RT: 9.157 min Scan# 11

Delta R.T. -0.271 min

Lab File: VN074143.D

Acq: 26 Aug 2022 18:13

Instrument :

MSVOA\_N

ClientSampleId :

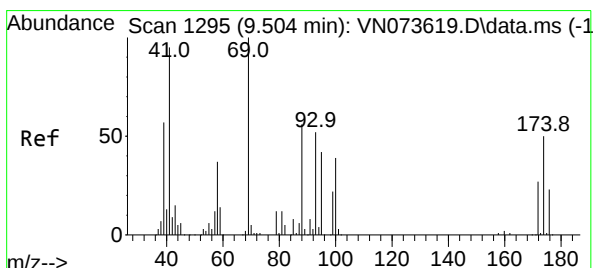
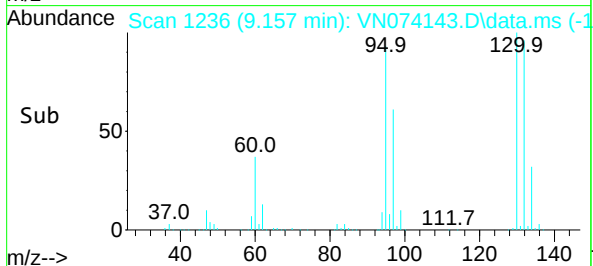
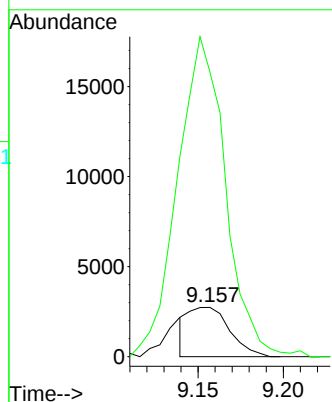
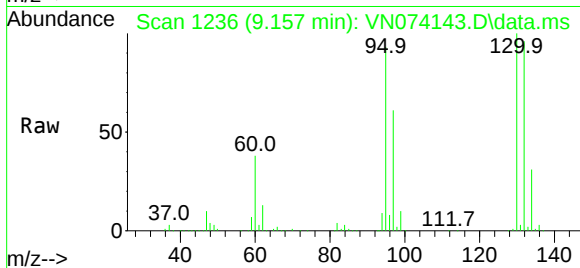
DUP03-20220820

Tgt Ion: 63 Resp: 4635

Ion Ratio Lower Upper

63 100

65 567.0 24.9 37.3#



#49

1,4-Dioxane

Concen: 0.349 ug/l

RT: 9.498 min Scan# 1294

Delta R.T. -0.006 min

Lab File: VN074143.D

Acq: 26 Aug 2022 18:13

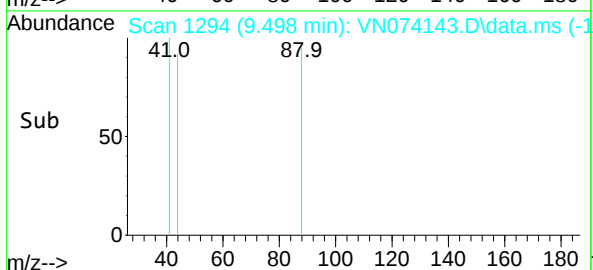
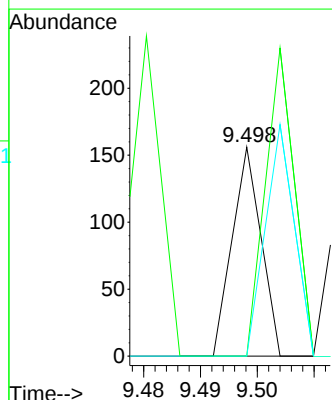
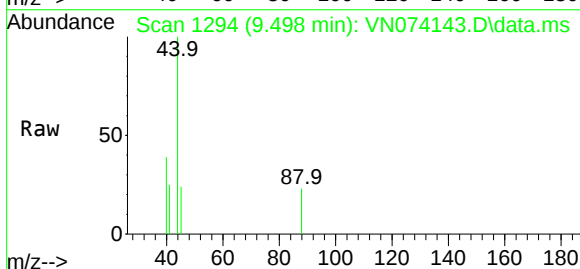
Tgt Ion: 88 Resp: 55

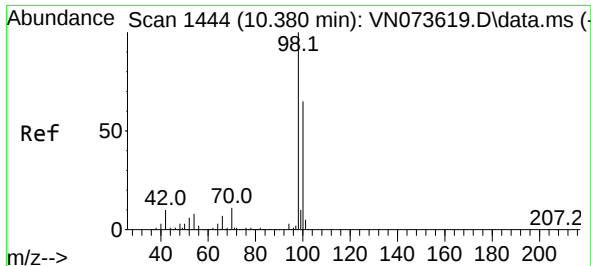
Ion Ratio Lower Upper

88 100

43 147.3 20.2 30.4#

58 110.9 54.2 81.4#

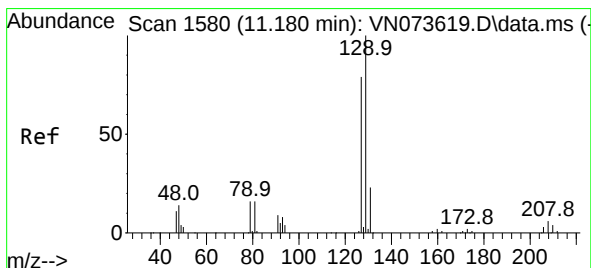
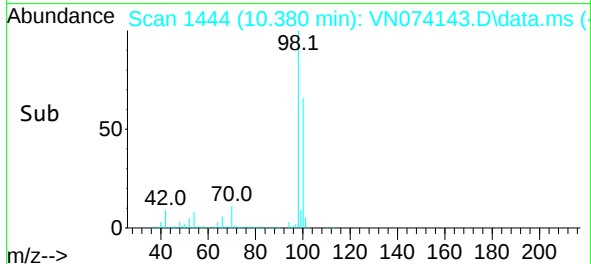
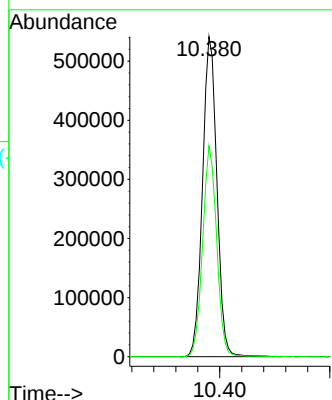
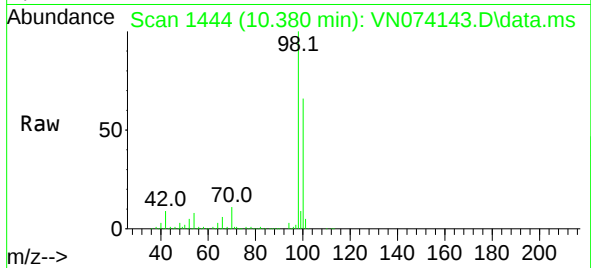




#50  
Toluene-d8  
Concen: 48.973 ug/l  
RT: 10.380 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: VN074143.D  
Acq: 26 Aug 2022 18:13

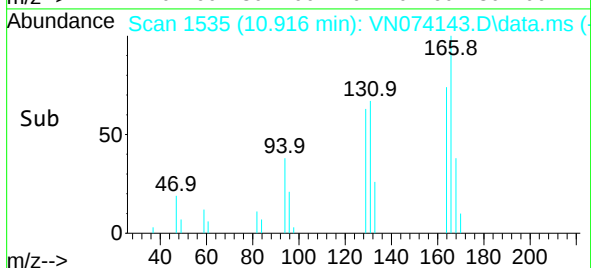
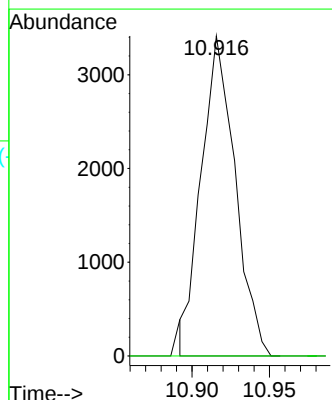
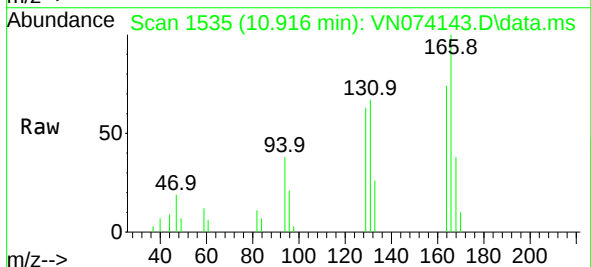
Instrument :  
MSVOA\_N  
ClientSampleId :  
DUP03-20220820

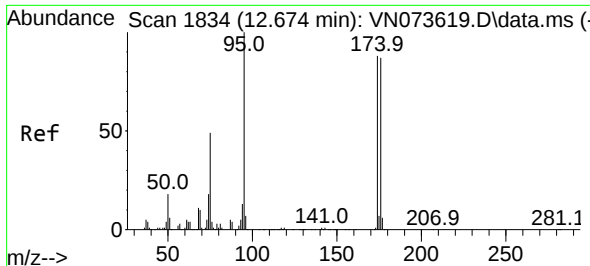
Tgt Ion: 98 Resp: 981315  
Ion Ratio Lower Upper  
98 100  
100 64.6 52.6 78.8



#60  
Dibromochloromethane  
Concen: 0.773 ug/l  
RT: 10.916 min Scan# 1535  
Delta R.T. -0.264 min  
Lab File: VN074143.D  
Acq: 26 Aug 2022 18:13

Tgt Ion: 129 Resp: 5173  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.8 116.4#

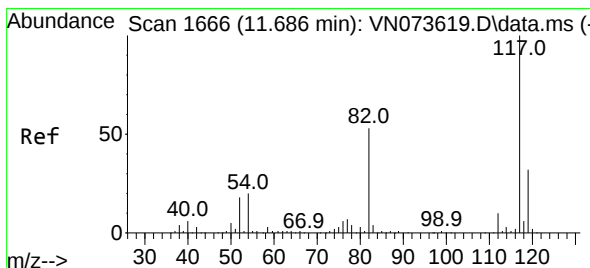
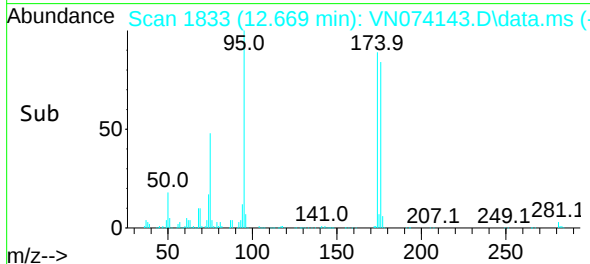
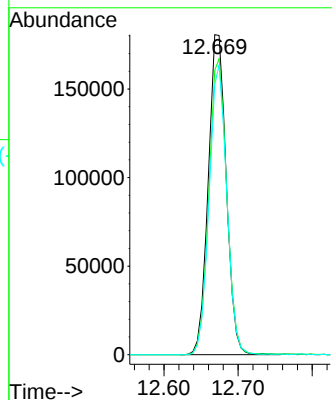
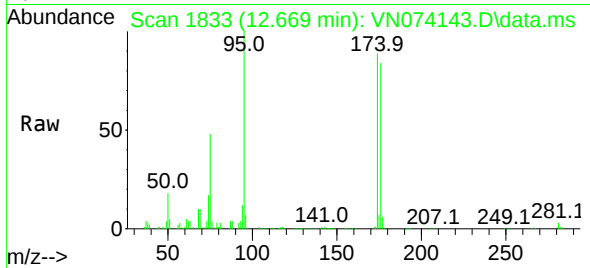




#62  
4-Bromofluorobenzene  
Concen: 45.862 ug/l  
RT: 12.669 min Scan# 1833  
Delta R.T. -0.005 min  
Lab File: VN074143.D  
Acq: 26 Aug 2022 18:13

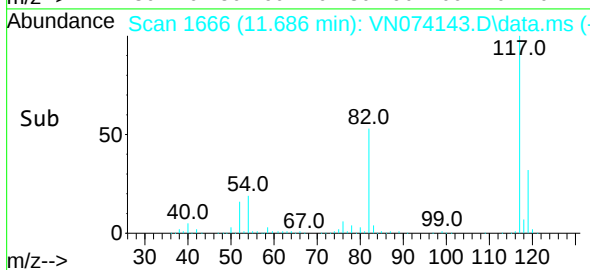
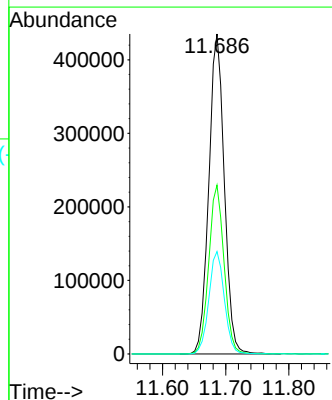
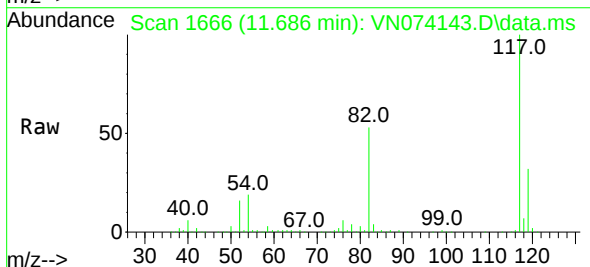
Instrument :  
MSVOA\_N  
ClientSampleId :  
DUP03-20220820

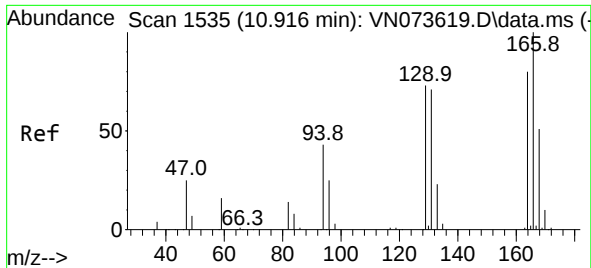
Tgt Ion: 95 Resp: 304988  
Ion Ratio Lower Upper  
95 100  
174 92.1 0.0 167.6  
176 88.6 0.0 163.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.686 min Scan# 1666  
Delta R.T. 0.000 min  
Lab File: VN074143.D  
Acq: 26 Aug 2022 18:13

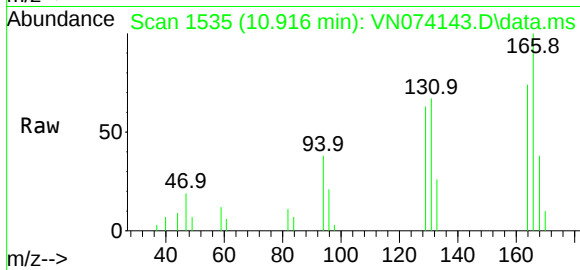
Tgt Ion: 117 Resp: 741190  
Ion Ratio Lower Upper  
117 100  
82 52.7 44.2 66.2  
119 32.0 25.4 38.0



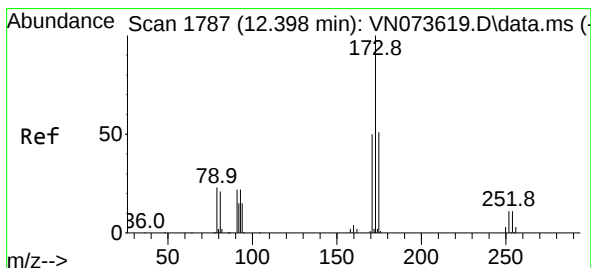
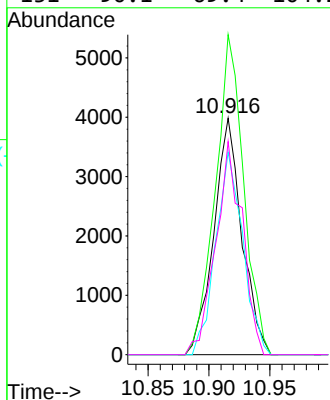
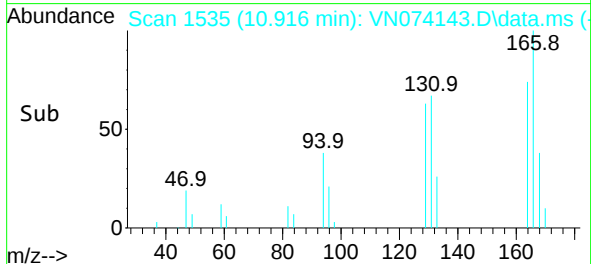


#64  
Tetrachloroethene  
Concen: 1.094 ug/l  
RT: 10.916 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN074143.D  
Acq: 26 Aug 2022 18:13

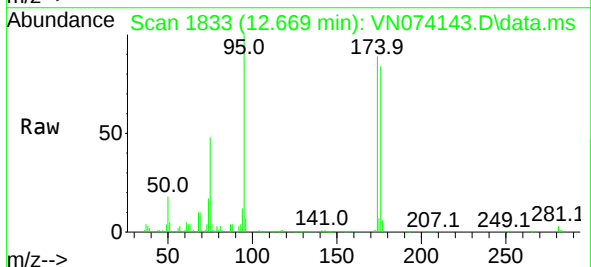
Instrument :  
MSVOA\_N  
ClientSampleId :  
DUP03-20220820



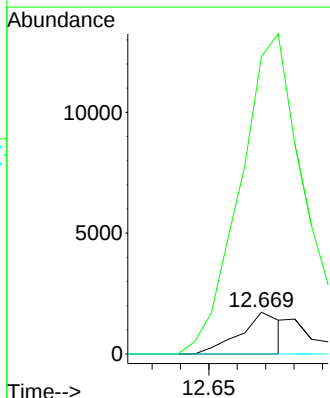
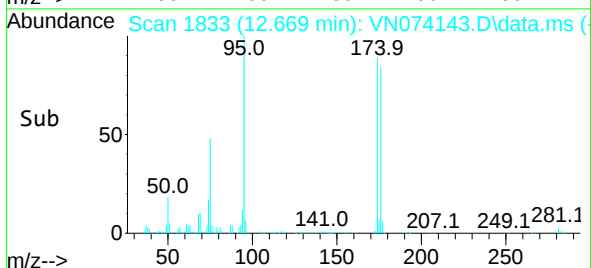
Tgt Ion:164 Resp: 6402  
Ion Ratio Lower Upper  
164 100  
166 135.3 104.2 156.2  
129 85.7 73.9 110.9  
131 90.1 69.4 104.2

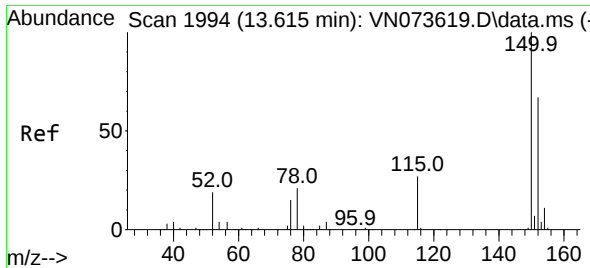


#71  
Bromoform  
Concen: 0.323 ug/l  
RT: 12.669 min Scan# 1833  
Delta R.T. 0.271 min  
Lab File: VN074143.D  
Acq: 26 Aug 2022 18:13



Tgt Ion:173 Resp: 1719  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.6 73.6#  
254 0.0 0.1 0.1#

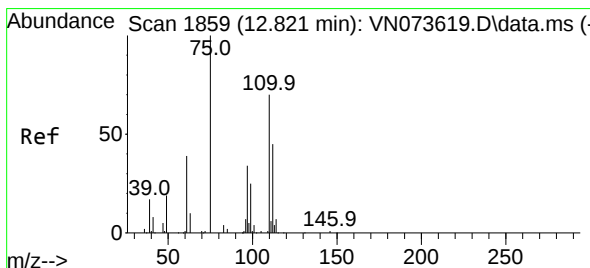
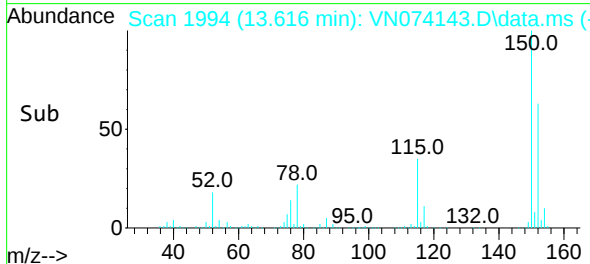
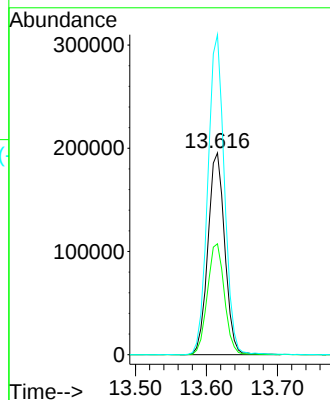
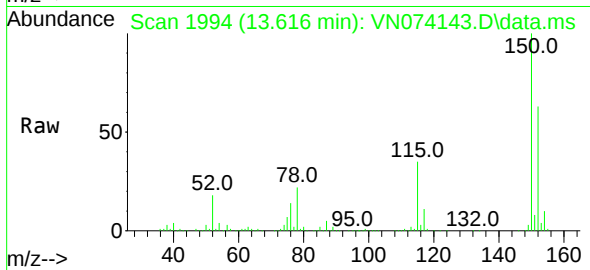




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.616 min Scan# 1994  
 Delta R.T. 0.001 min  
 Lab File: VN074143.D  
 Acq: 26 Aug 2022 18:13

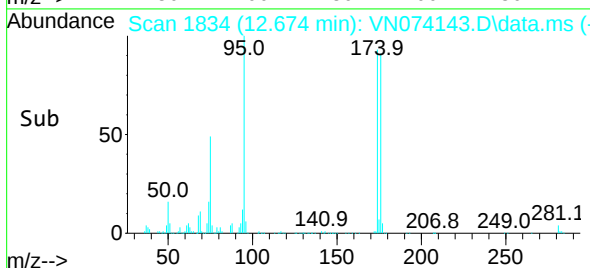
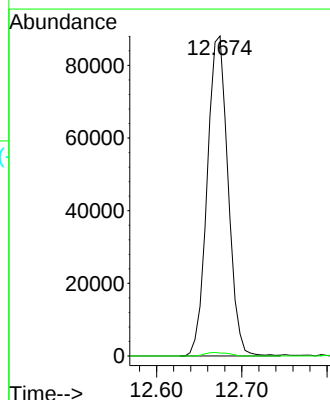
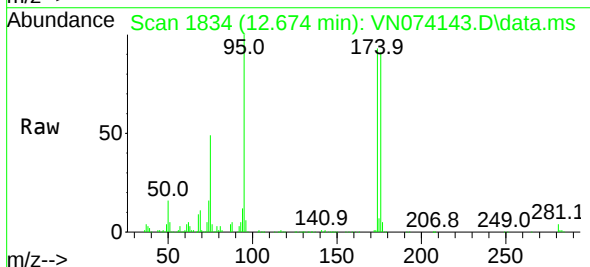
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 DUP03-20220820

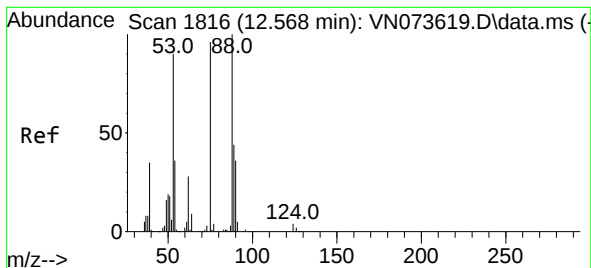
Tgt Ion:152 Resp: 322413  
 Ion Ratio Lower Upper  
 152 100  
 115 55.7 28.9 86.7  
 150 156.0 0.0 356.2



#76  
 1,2,3-Trichloropropane  
 Concen: 22.334 ug/l  
 RT: 12.674 min Scan# 1834  
 Delta R.T. -0.147 min  
 Lab File: VN074143.D  
 Acq: 26 Aug 2022 18:13

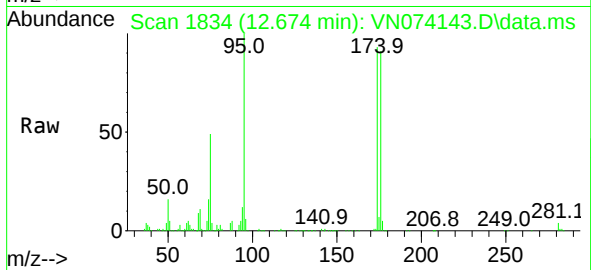
Tgt Ion: 75 Resp: 149668  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 98.5 295.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 63.522 ug/l  
 RT: 12.674 min Scan# 11  
 Delta R.T. 0.106 min  
 Lab File: VN074143.D  
 Acq: 26 Aug 2022 18:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 DUP03-20220820



Tgt Ion: 75 Resp: 149668  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 78.0 117.0#  
 89 0.0 37.2 55.8#

