

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031522\  
 Data File : VN071307.D  
 Acq On : 15 Mar 2022 21:17  
 Operator : JC\MD  
 Sample : PB143286ZHE#13  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB143286ZHE#13

Quant Time: Mar 16 08:08:47 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030722W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 08 06:52:46 2022  
 Response via : Initial Calibration

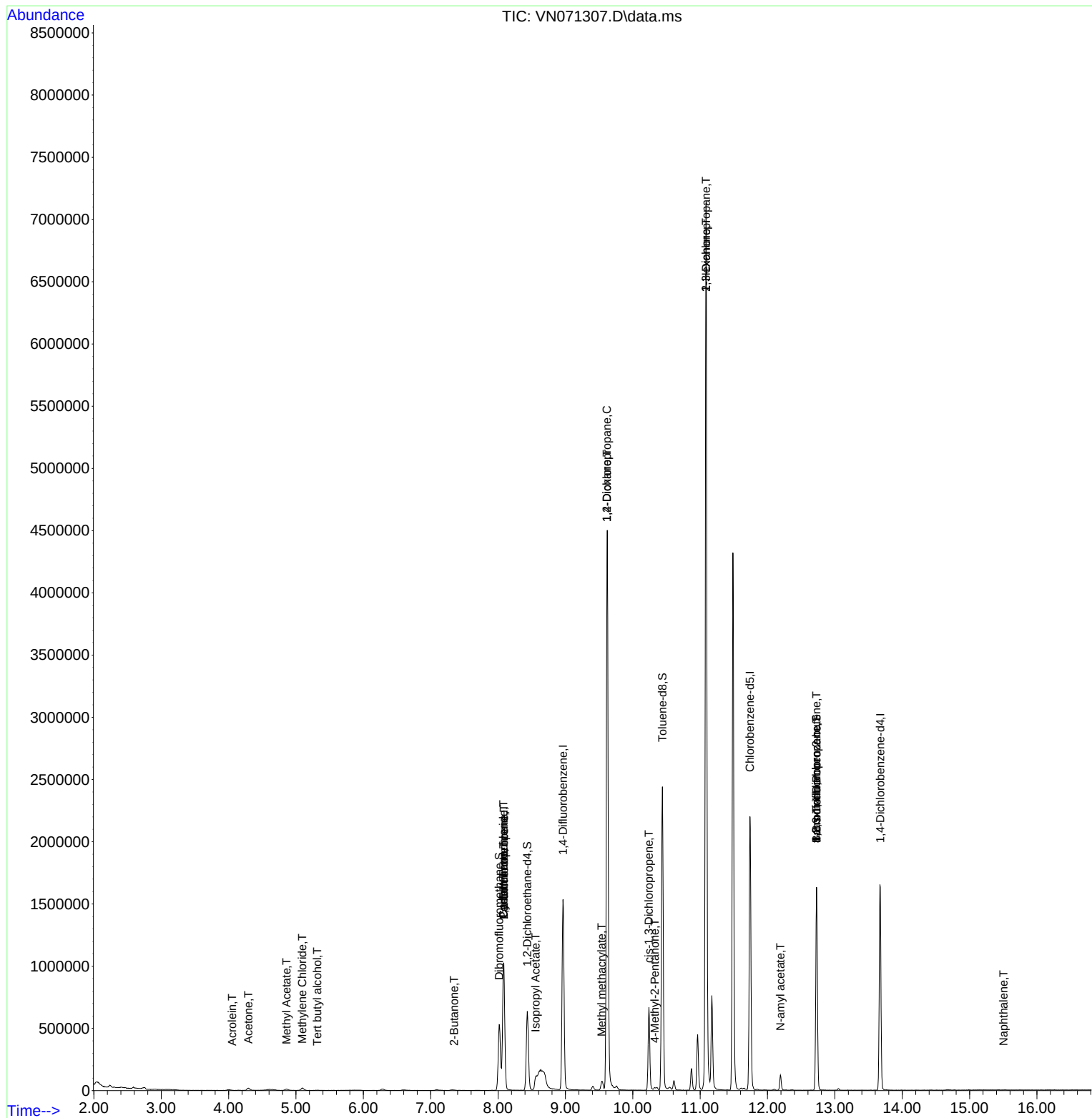
| Compound                      | R.T.           | QIon | Response   | Conc          | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------------|-------|----------|
| -----                         |                |      |            |               |       |          |
| Internal Standards            |                |      |            |               |       |          |
| 1) Pentafluorobenzene         | 8.087          | 168  | 790535     | 50.000        | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.963          | 114  | 1338836    | 50.000        | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 11.739         | 117  | 1266804    | 50.000        | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.674         | 152  | 464136     | 50.000        | ug/l  | 0.00     |
|                               |                |      |            |               |       |          |
| System Monitoring Compounds   |                |      |            |               |       |          |
| 33) 1,2-Dichloroethane-d4     | 8.434          | 65   | 517260     | 47.742        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = | 95.480%       |       |          |
| 35) Dibromofluoromethane      | 8.016          | 113  | 388883     | 46.030        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = | 92.060%       |       |          |
| 50) Toluene-d8                | 10.439         | 98   | 1649473    | 48.491        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = | 96.980%       |       |          |
| 62) 4-Bromofluorobenzene      | 12.727         | 95   | 559324     | 48.558        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = | 97.120%       |       |          |
|                               |                |      |            |               |       |          |
| Target Compounds              |                |      |            |               |       | Qvalue   |
| 5) Bromomethane               | 2.858          | 94   | 445        | Below Cal     |       | 90       |
| 11) Tert butyl alcohol        | 5.316          | 59   | 1760       | 0.827 ug/l #  |       | 71       |
| 13) Acrolein                  | 4.052          | 56   | 502        | 0.223 ug/l #  |       | 67       |
| 16) Acetone                   | 4.293          | 43   | 31965      | 6.063 ug/l    |       | 92       |
| 18) Methyl Acetate            | 4.857          | 43   | 23845      | 2.138 ug/l #  |       | 86       |
| 20) Methylene Chloride        | 5.093          | 84   | 14494      | 1.875 ug/l    |       | 90       |
| 25) 2-Butanone                | 7.345          | 43   | 6496       | 0.765 ug/l    |       | 99       |
| 31) Cyclohexane               | 8.081          | 56   | 17316      | 1.001 ug/l #  |       | 19       |
| 36) 1,1-Dichloropropene       | 8.087          | 75   | 62559      | 4.622 ug/l #  |       | 51       |
| 38) Carbon Tetrachloride      | 8.081          | 117  | 78136      | 5.968 ug/l #  |       | 16       |
| 43) Isopropyl Acetate         | 8.557          | 43   | 134945     | 4.844 ug/l #  |       | 78       |
| 45) 1,2-Dichloropropane       | 9.616          | 63   | 5915       | 0.540 ug/l #  |       | 44       |
| 48) Methyl methacrylate       | 9.539          | 41   | 22111      | 1.713 ug/l #  |       | 8        |
| 49) 1,4-Dioxane               | 9.616          | 88   | 520        | 2.317 ug/l #  |       | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.328         | 43   | 14084      | 0.815 ug/l    |       | 95       |
| 54) cis-1,3-Dichloropropene   | 10.239         | 75   | 116860     | 7.125 ug/l #  |       | 60       |
| 57) 1,3-Dichloropropane       | 11.086         | 76   | 74044      | 4.099 ug/l #  |       | 43       |
| 59) 2-Hexanone                | 11.086         | 43   | 1145794    | 97.129 ug/l # |       | 49       |
| 71) Bromoform                 | 12.727         | 173  | 3213       | 0.424 ug/l #  |       | 1        |
| 74) N-amyl acetate            | 12.192         | 43   | 38867      | 2.310 ug/l #  |       | 53       |
| 75) 1,1,2,2-Tetrachloroethane | 12.722         | 83   | 307        | Below Cal #   |       | 1        |
| 76) 1,2,3-Trichloropropane    | 12.727         | 75   | 286563     | 24.007 ug/l # |       | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.727         | 75   | 286563     | 66.742 ug/l # |       | 5        |
| 95) Naphthalene               | 15.504         | 128  | 135        | 5.073 ug/l #  |       | 69       |
| -----                         |                |      |            |               |       |          |

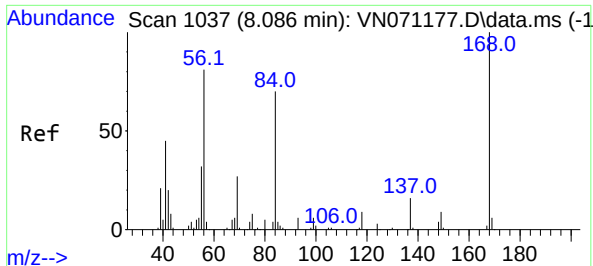
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031522\  
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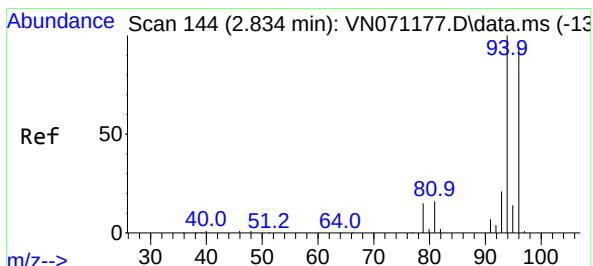
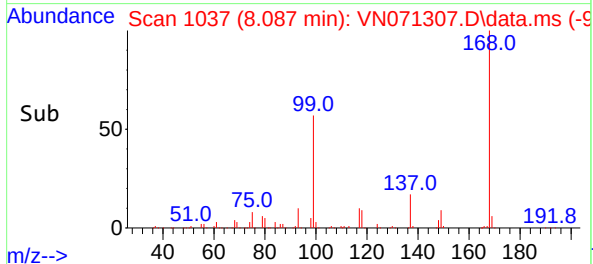
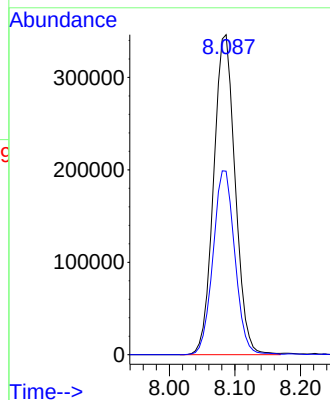
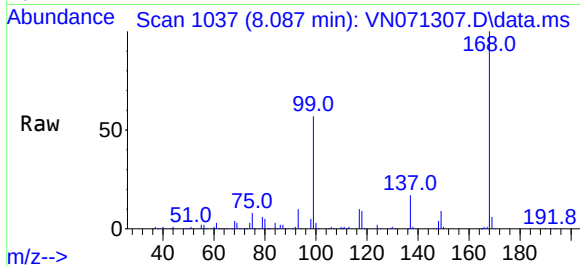




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.087 min Scan# 10  
Delta R.T. 0.001 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

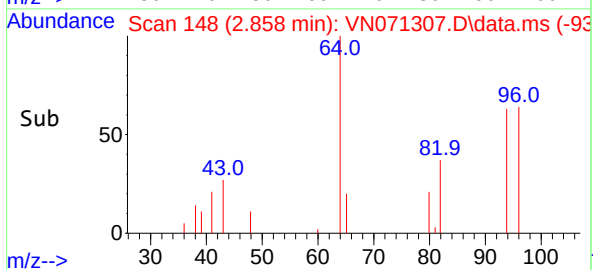
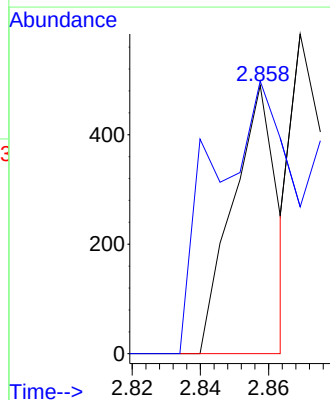
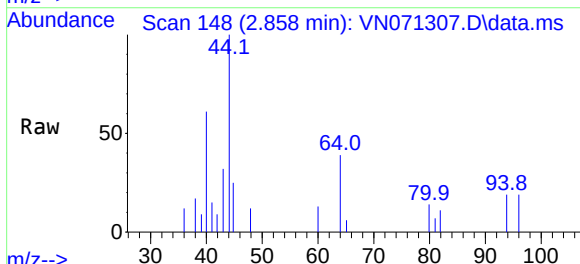
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB143286ZHE#13

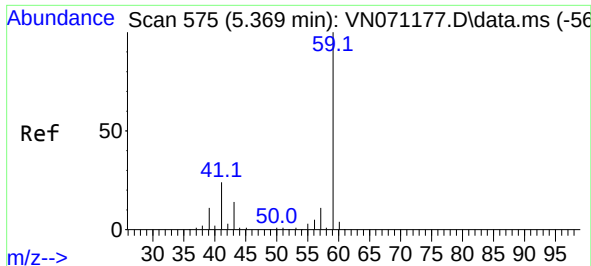
Tgt Ion:168 Resp: 790535  
Ion Ratio Lower Upper  
168 100  
99 57.3 41.3 61.9



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.858 min Scan# 148  
Delta R.T. 0.024 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

Tgt Ion: 94 Resp: 445  
Ion Ratio Lower Upper  
94 100  
96 101.6 73.8 110.8

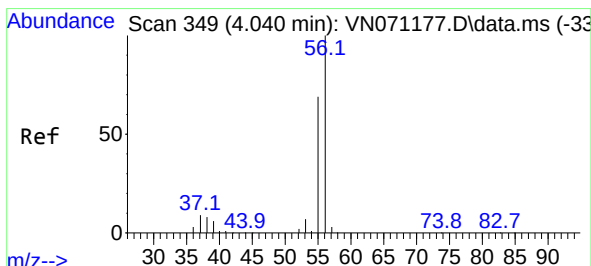
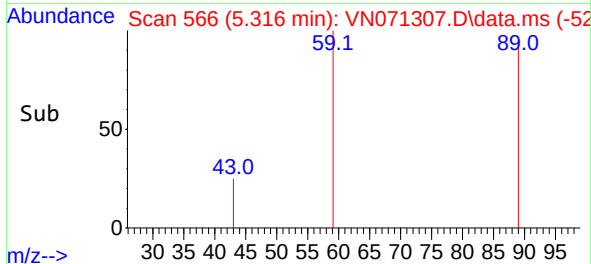
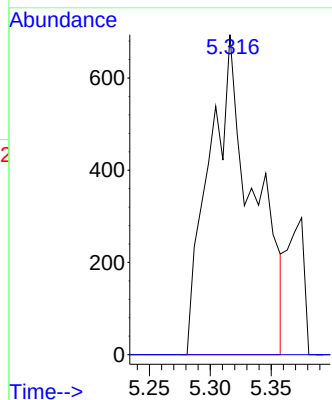
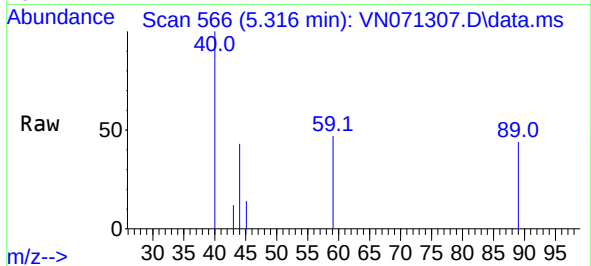




#11  
Tert butyl alcohol  
Concen: 0.827 ug/l  
RT: 5.316 min Scan# 50  
Delta R.T. -0.053 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

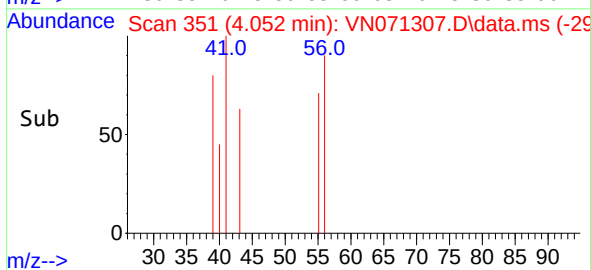
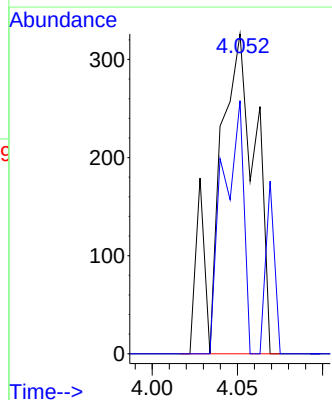
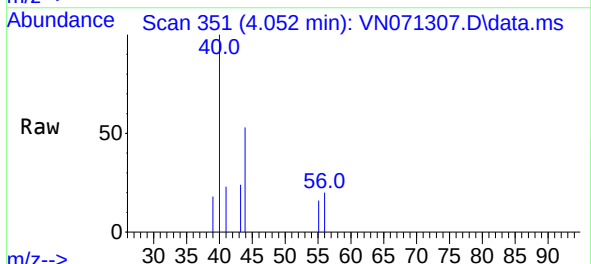
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB143286ZHE#13

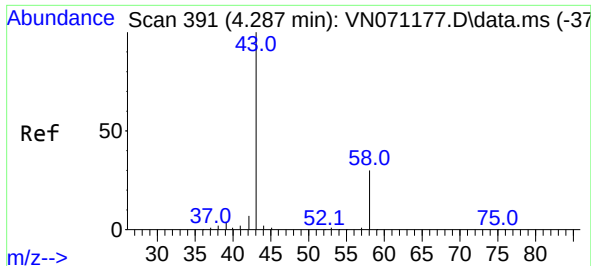
Tgt Ion: 59 Resp: 1760  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.7 13.1#



#13  
Acrolein  
Concen: 0.223 ug/l  
RT: 4.052 min Scan# 351  
Delta R.T. 0.012 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

Tgt Ion: 56 Resp: 502  
Ion Ratio Lower Upper  
56 100  
55 43.2 56.6 85.0#

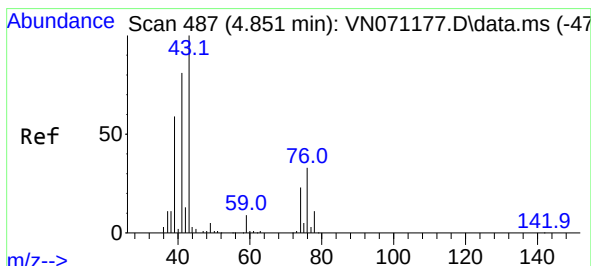
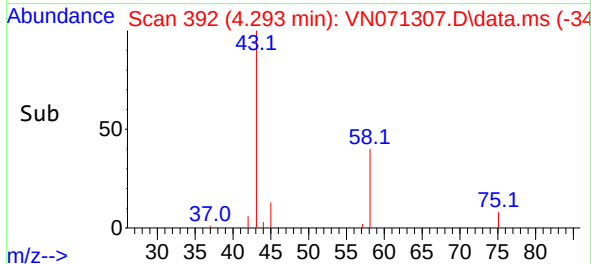
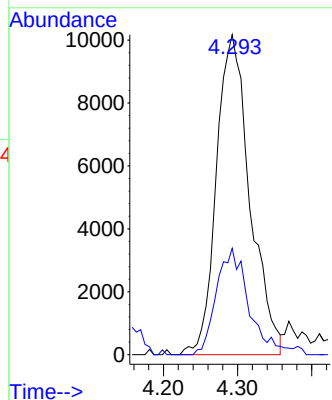
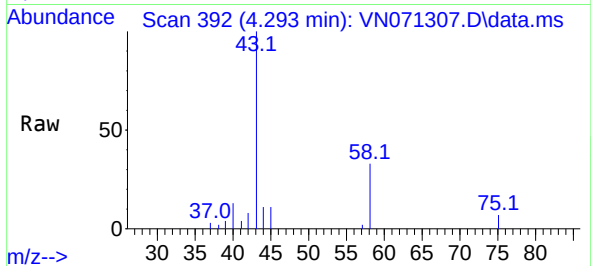




#16  
Acetone  
Concen: 6.063 ug/l  
RT: 4.293 min Scan# 391  
Delta R.T. 0.006 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

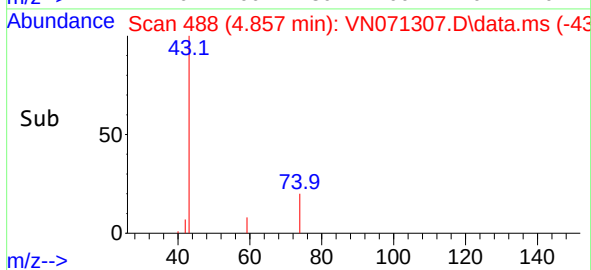
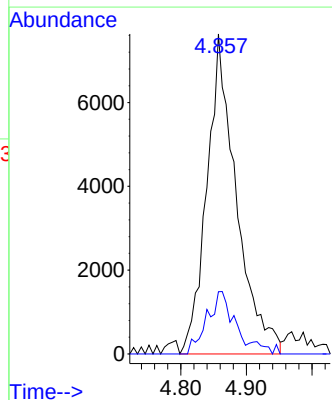
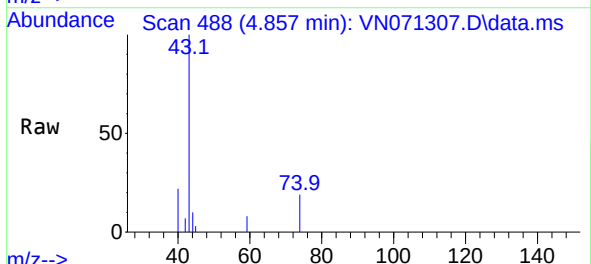
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB143286ZHE#13

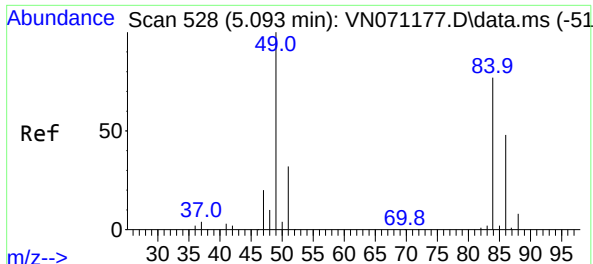
Tgt Ion: 43 Resp: 31965  
Ion Ratio Lower Upper  
43 100  
58 33.3 23.1 34.7



#18  
Methyl Acetate  
Concen: 2.138 ug/l  
RT: 4.857 min Scan# 488  
Delta R.T. 0.006 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

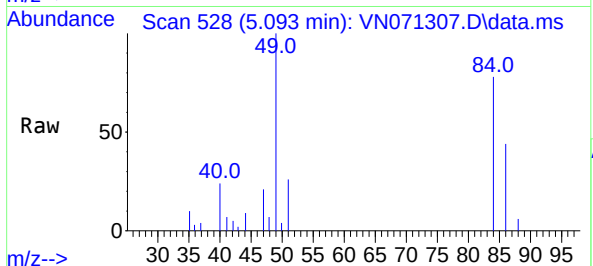
Tgt Ion: 43 Resp: 23845  
Ion Ratio Lower Upper  
43 100  
74 17.6 19.4 29.2#





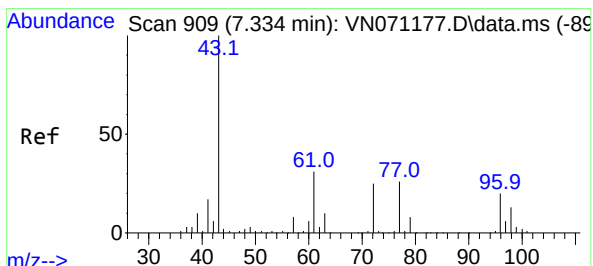
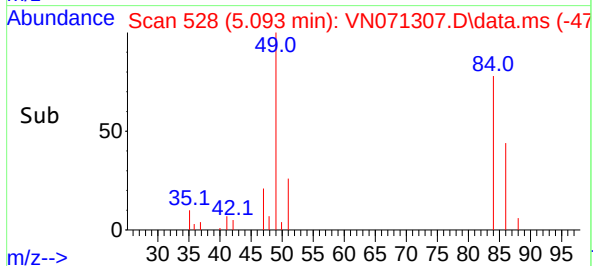
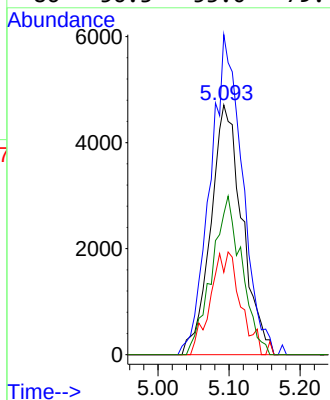
#20  
Methylene Chloride  
Concen: 1.875 ug/l  
RT: 5.093 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB143286ZHE#13



Tgt Ion: 84 Resp: 14494

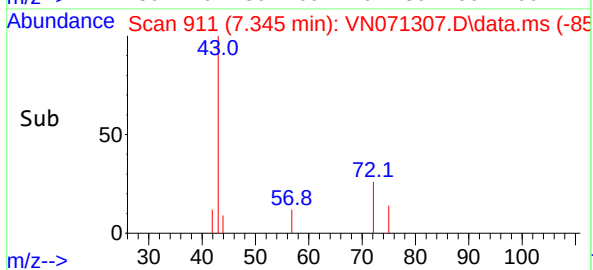
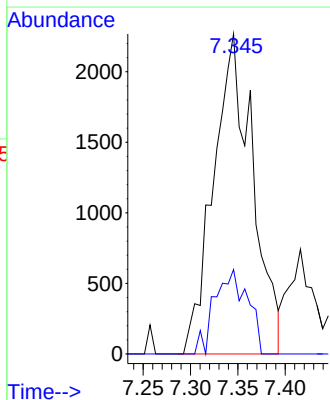
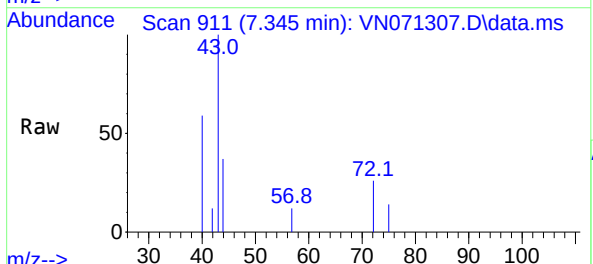
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 128.2 | 93.5  | 140.3 |
| 51  | 33.0  | 29.4  | 44.2  |
| 86  | 56.3  | 53.0  | 79.4  |

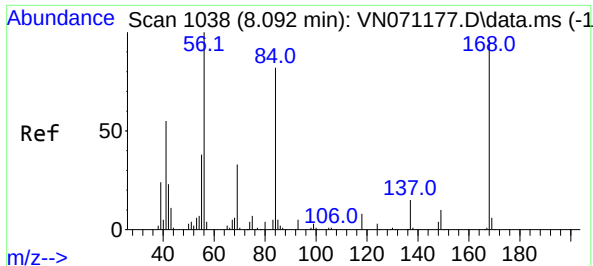


#25  
2-Butanone  
Concen: 0.765 ug/l  
RT: 7.345 min Scan# 911  
Delta R.T. 0.012 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

Tgt Ion: 43 Resp: 6496

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 26.4  | 21.7  | 32.5  |





#31

Cyclohexane

Concen: 1.001 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.012 min

Lab File: VN071307.D

Acq: 15 Mar 2022 21:17

Instrument :

MSVOA\_N

ClientSampleId :

PB143286ZHE#13

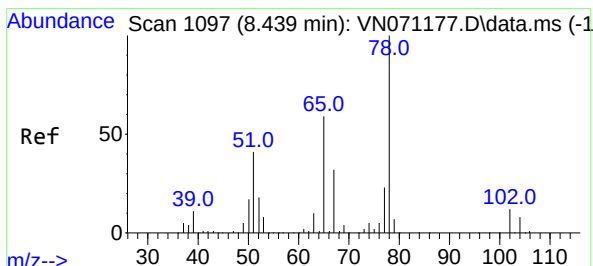
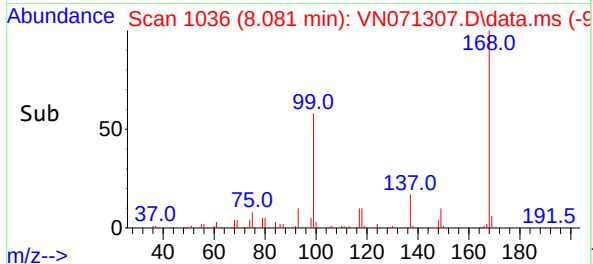
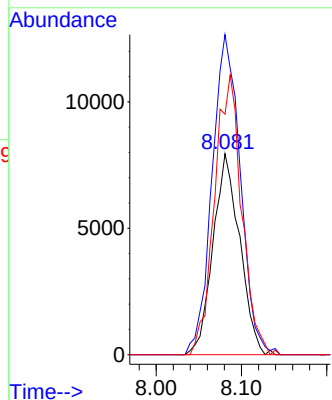
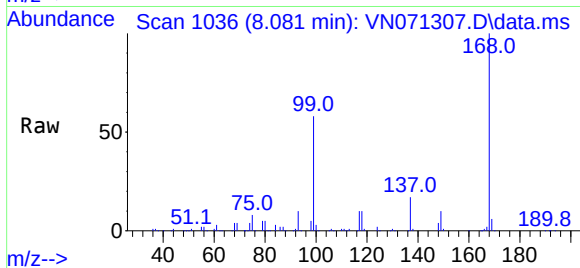
Tgt Ion: 56 Resp: 17316

Ion Ratio Lower Upper

56 100

69 159.2 27.1 40.7#

84 119.7 73.4 110.0#



#33

1,2-Dichloroethane-d4

Concen: 47.742 ug/l

RT: 8.434 min Scan# 1096

Delta R.T. -0.006 min

Lab File: VN071307.D

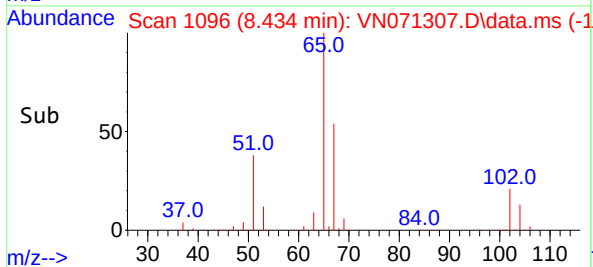
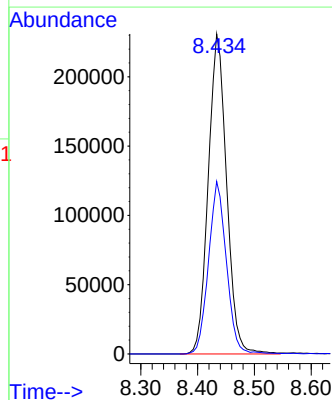
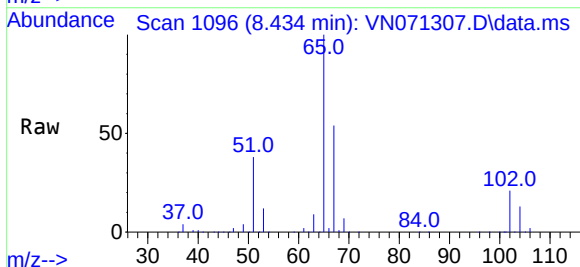
Acq: 15 Mar 2022 21:17

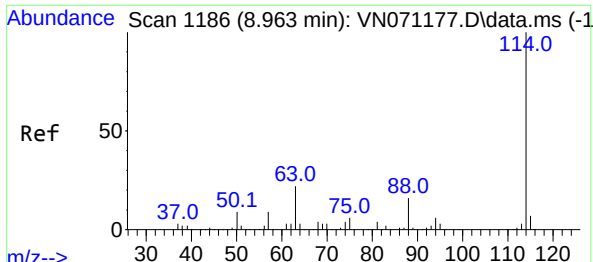
Tgt Ion: 65 Resp: 517260

Ion Ratio Lower Upper

65 100

67 52.5 0.0 103.0

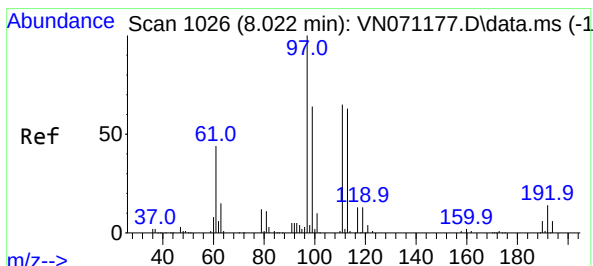
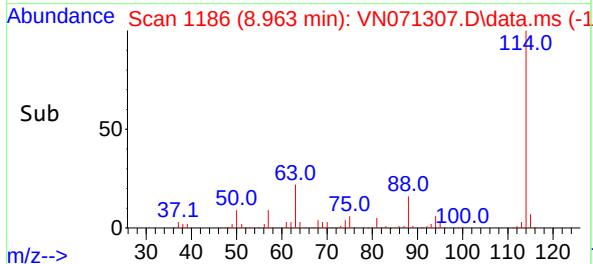
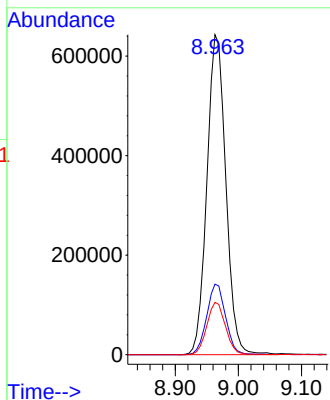
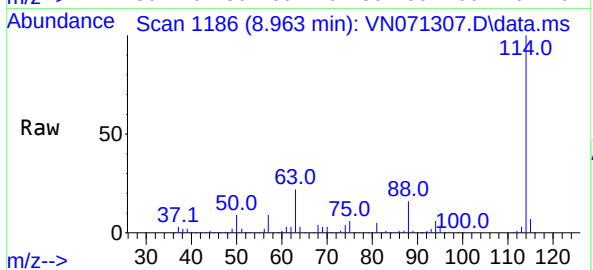




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.963 min Scan# 1186  
Delta R.T. 0.000 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

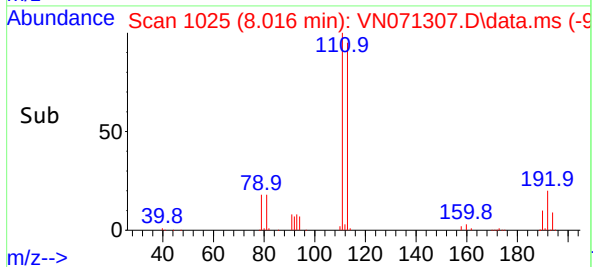
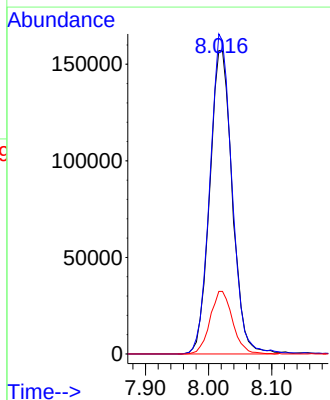
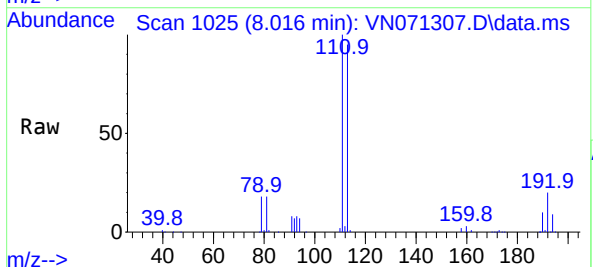
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB143286ZHE#13

Tgt Ion:114 Resp: 1338836  
Ion Ratio Lower Upper  
114 100  
63 22.1 0.0 37.8  
88 16.4 0.0 27.4

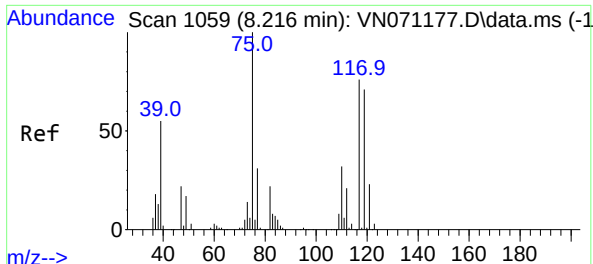


#35  
Dibromofluoromethane  
Concen: 46.030 ug/l  
RT: 8.016 min Scan# 1025  
Delta R.T. -0.006 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

Tgt Ion:113 Resp: 388883  
Ion Ratio Lower Upper  
113 100  
111 103.3 82.2 123.2  
192 20.7 16.9 25.3







#36

1,1-Dichloropropene

Concen: 4.622 ug/l

RT: 8.087 min Scan# 1037

Delta R.T. -0.129 min

Lab File: VN071307.D

Acq: 15 Mar 2022 21:17

Instrument :

MSVOA\_N

ClientSampleId :

PB143286ZHE#13

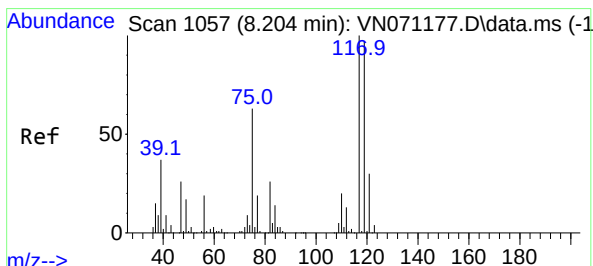
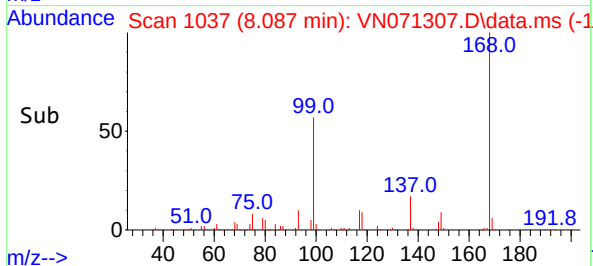
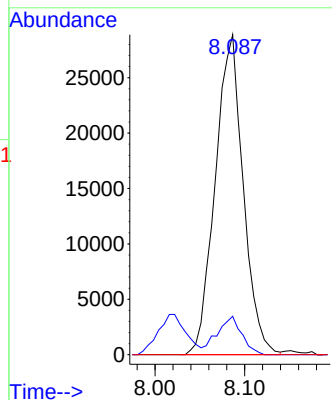
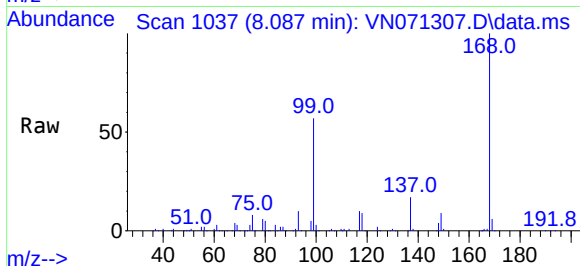
Tgt Ion: 75 Resp: 62559

Ion Ratio Lower Upper

75 100

110 10.6 18.4 55.2#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 5.968 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.123 min

Lab File: VN071307.D

Acq: 15 Mar 2022 21:17

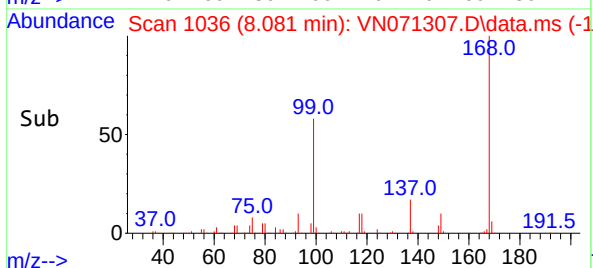
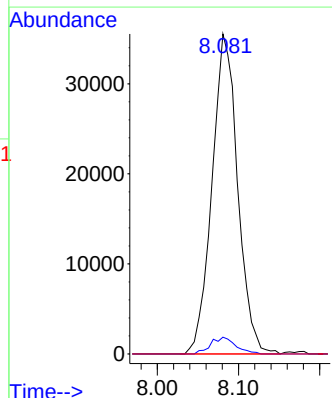
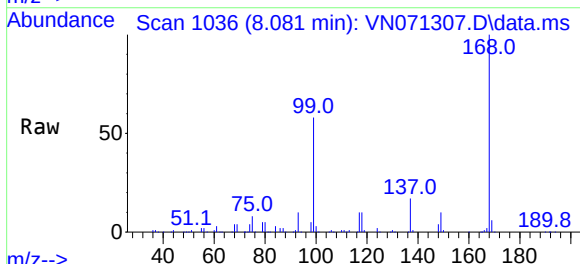
Tgt Ion: 117 Resp: 78136

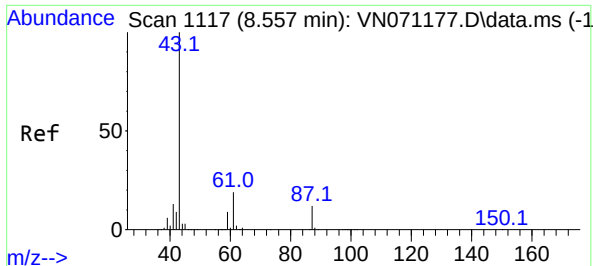
Ion Ratio Lower Upper

117 100

119 5.3 76.1 114.1#

121 0.0 24.2 36.2#

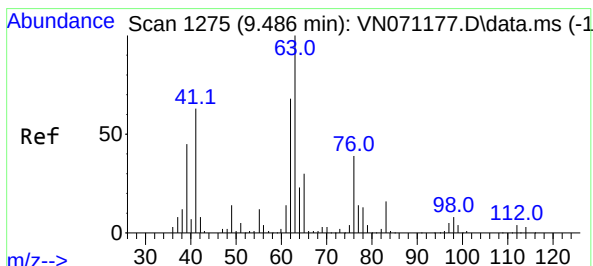
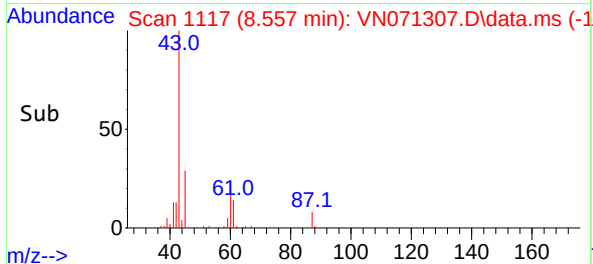
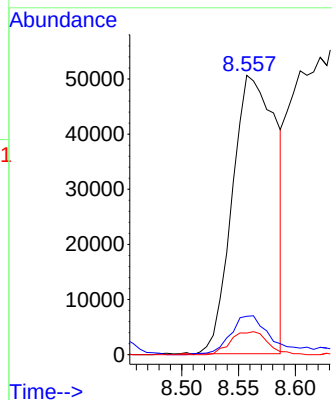
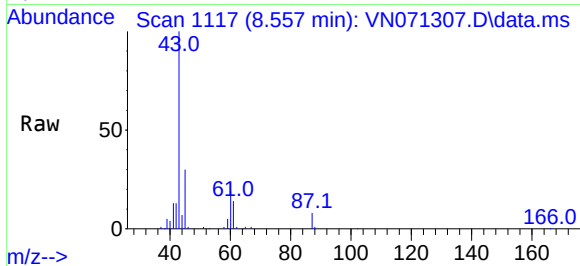




#43  
Isopropyl Acetate  
Concen: 4.844 ug/l  
RT: 8.557 min Scan# 1117  
Delta R.T. 0.000 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

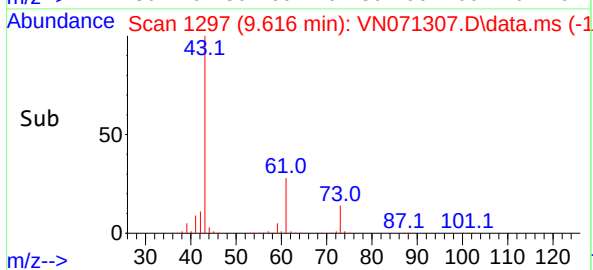
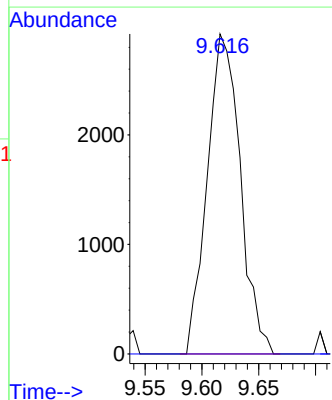
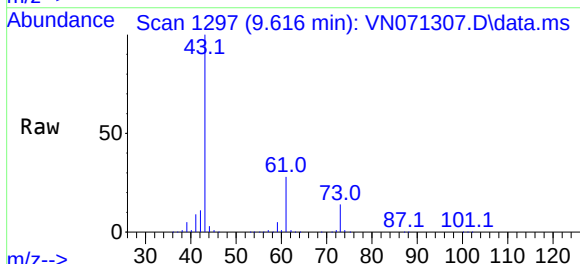
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB143286ZHE#13

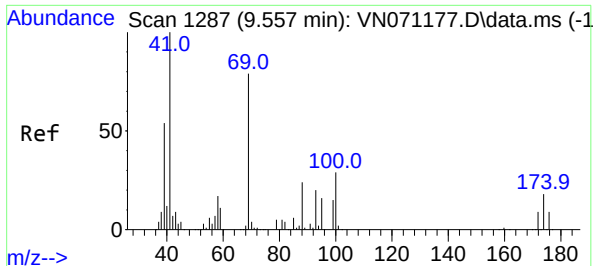
Tgt Ion: 43 Resp: 134945  
Ion Ratio Lower Upper  
43 100  
61 13.3 20.4 30.6#  
87 7.0 11.2 16.8#



#45  
1,2-Dichloropropane  
Concen: 0.540 ug/l  
RT: 9.616 min Scan# 1297  
Delta R.T. 0.130 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

Tgt Ion: 63 Resp: 5915  
Ion Ratio Lower Upper  
63 100  
65 0.0 24.7 37.1#

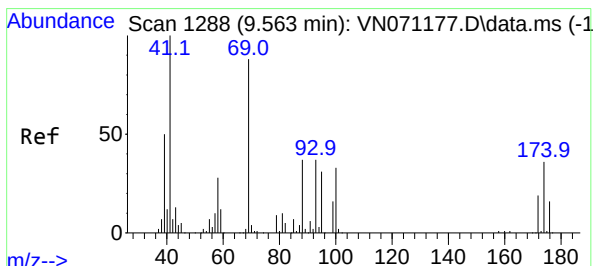
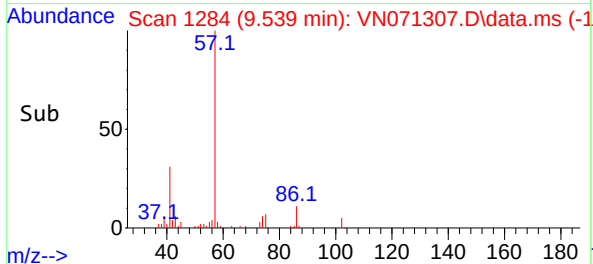
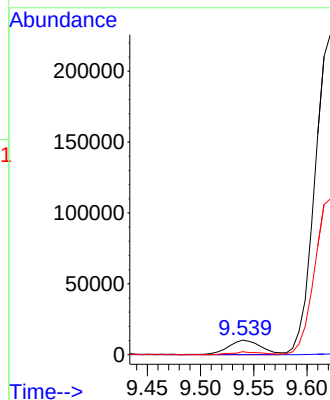
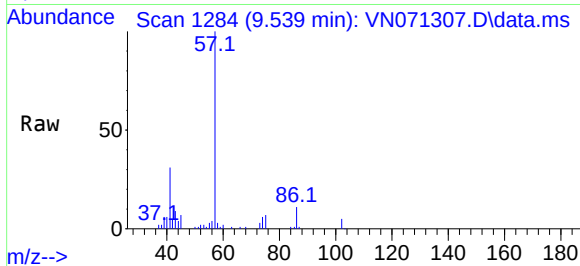




#48  
Methyl methacrylate  
Concen: 1.713 ug/l  
RT: 9.539 min Scan# 11  
Delta R.T. -0.018 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

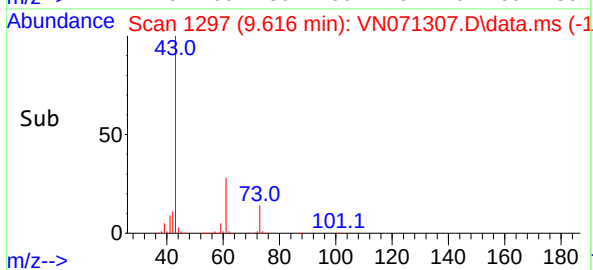
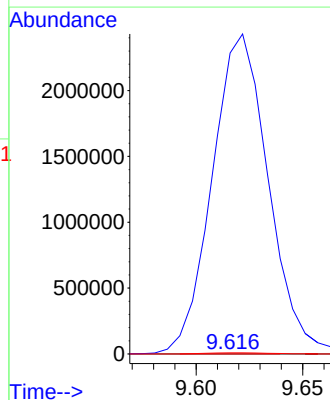
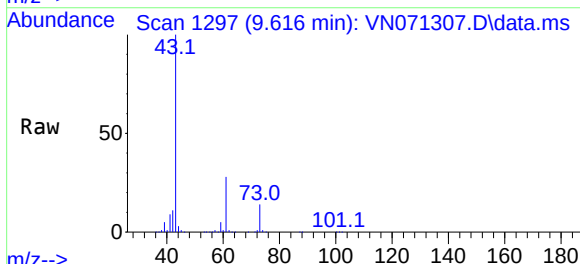
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB143286ZHE#13

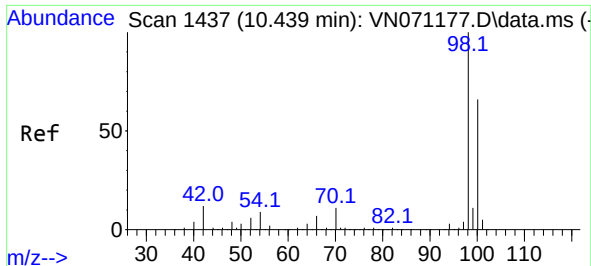
Tgt Ion: 41 Resp: 22111  
Ion Ratio Lower Upper  
41 100  
69 0.0 72.4 108.6#  
39 0.0 58.4 87.6#



#49  
1,4-Dioxane  
Concen: 2.317 ug/l  
RT: 9.616 min Scan# 1297  
Delta R.T. 0.053 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

Tgt Ion: 88 Resp: 520  
Ion Ratio Lower Upper  
88 100  
43 874229.6 23.4 35.2#  
58 3529.8 50.6 75.8#

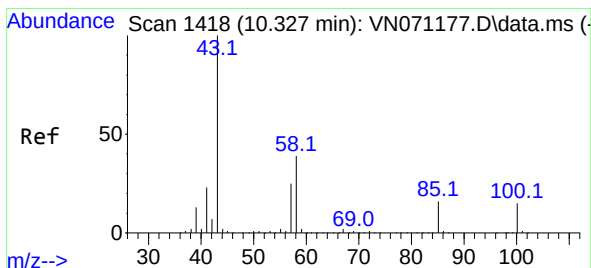
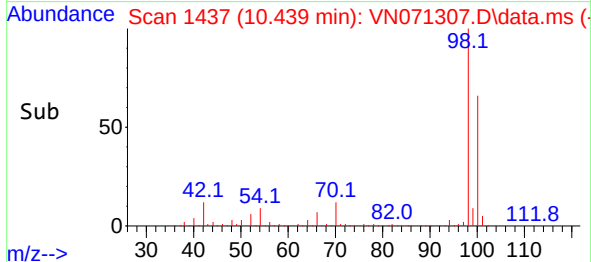
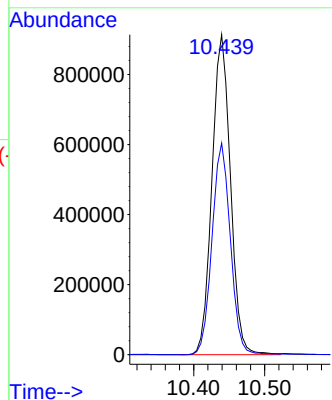
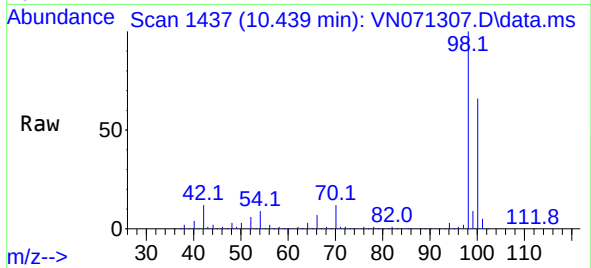




#50  
Toluene-d8  
Concen: 48.491 ug/l  
RT: 10.439 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

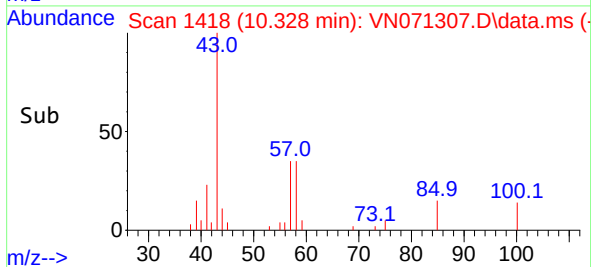
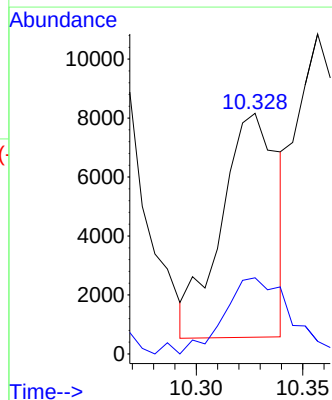
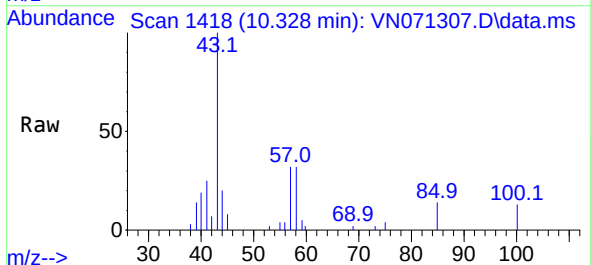
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MSVOA\_N  
ClientSampleId :  
PB143286ZHE#13

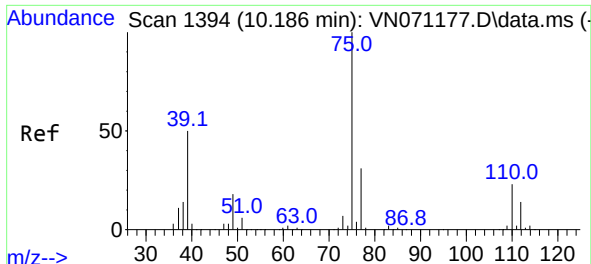
Tgt Ion: 98 Resp: 1649473  
Ion Ratio Lower Upper  
98 100  
100 65.7 50.4 75.6



#51  
4-Methyl-2-Pentanone  
Concen: 0.815 ug/l  
RT: 10.328 min Scan# 1418  
Delta R.T. 0.001 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

Tgt Ion: 43 Resp: 14084  
Ion Ratio Lower Upper  
43 100  
58 41.0 30.4 45.6

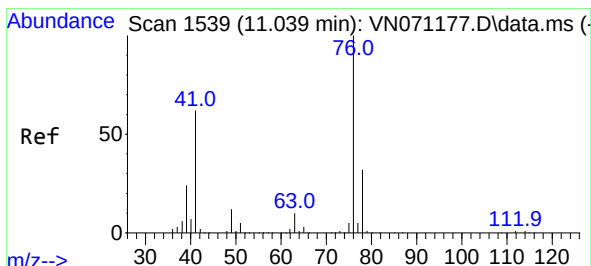
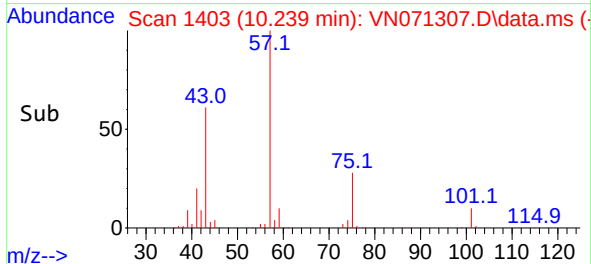
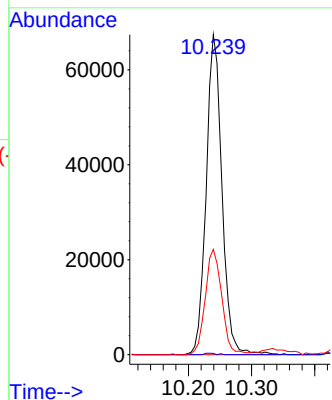
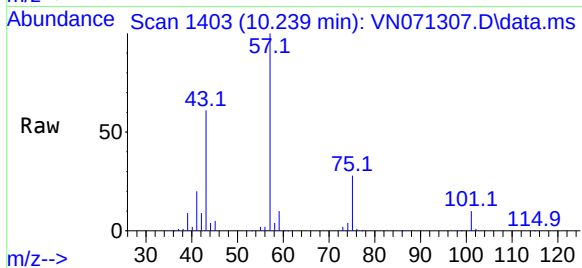




#54  
 cis-1,3-Dichloropropene  
 Concen: 7.125 ug/l  
 RT: 10.239 min Scan# 1403  
 Delta R.T. 0.053 min  
 Lab File: VN071307.D  
 Acq: 15 Mar 2022 21:17

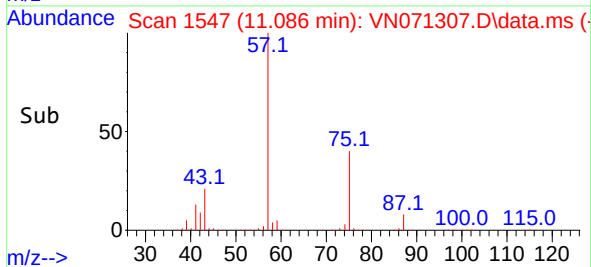
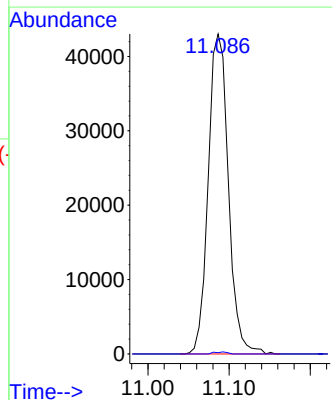
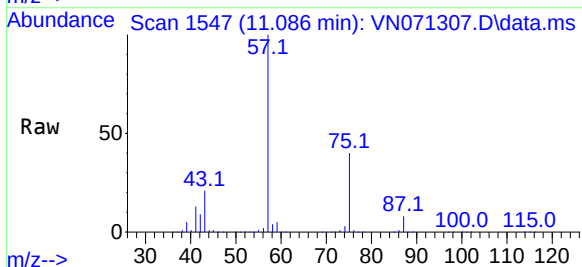
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB143286ZHE#13

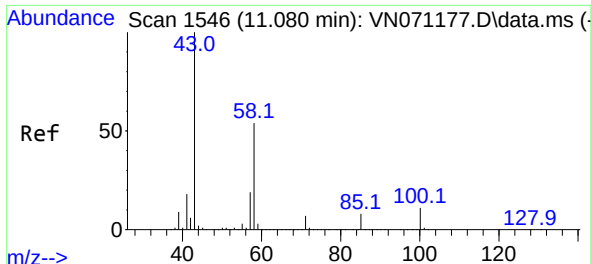
Tgt Ion: 75 Resp: 116860  
 Ion Ratio Lower Upper  
 75 100  
 77 0.4 26.4 39.6#  
 39 32.9 42.5 63.7#



#57  
 1,3-Dichloropropane  
 Concen: 4.099 ug/l  
 RT: 11.086 min Scan# 1547  
 Delta R.T. 0.047 min  
 Lab File: VN071307.D  
 Acq: 15 Mar 2022 21:17

Tgt Ion: 76 Resp: 74044  
 Ion Ratio Lower Upper  
 76 100  
 78 0.4 25.7 38.5#

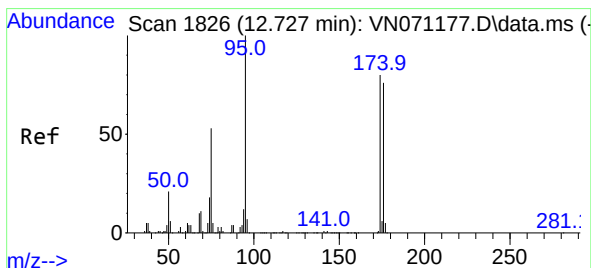
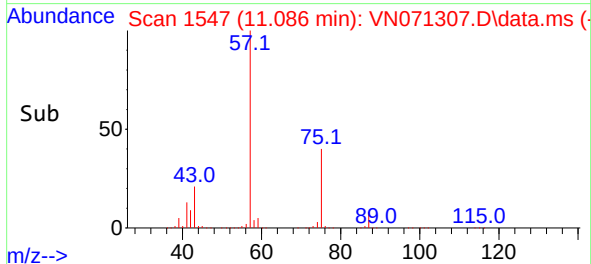
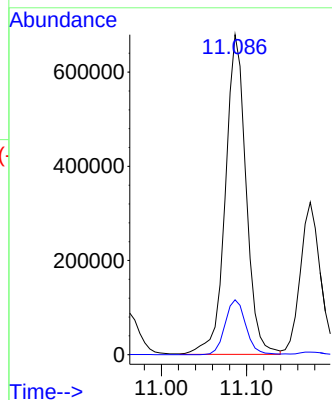
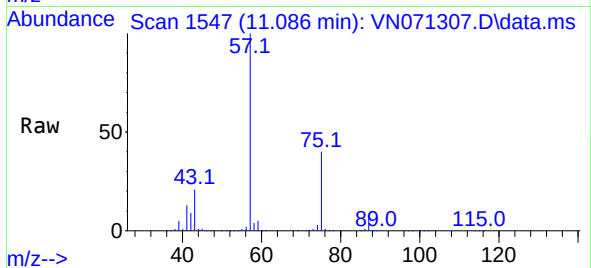




#59  
2-Hexanone  
Concen: 97.129 ug/l  
RT: 11.086 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

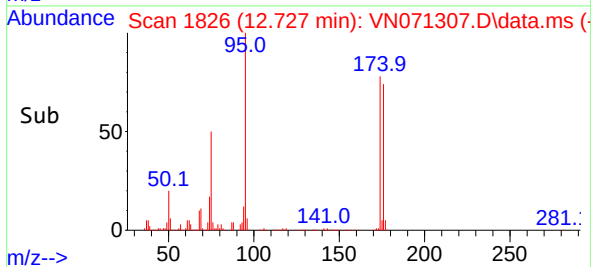
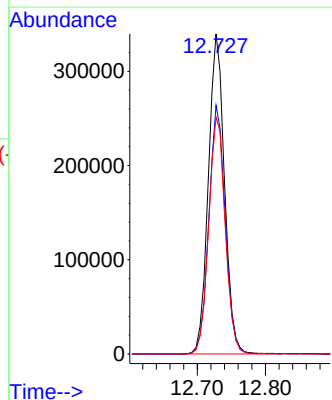
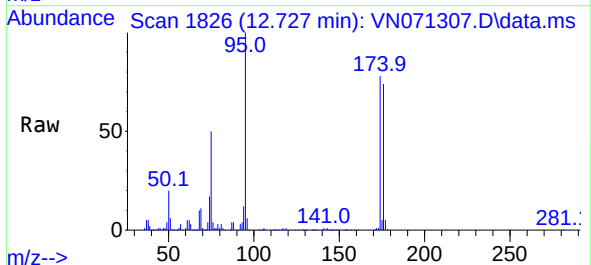
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB143286ZHE#13

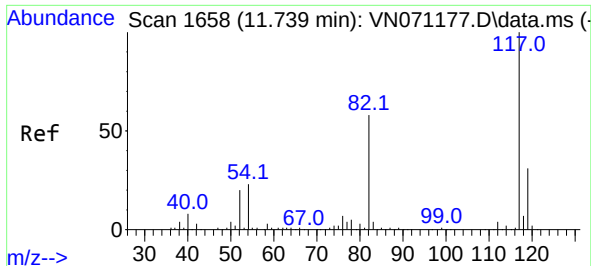
Tgt Ion: 43 Resp: 1145794  
Ion Ratio Lower Upper  
43 100  
58 17.2 26.9 80.7#



#62  
4-Bromofluorobenzene  
Concen: 48.558 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.000 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

Tgt Ion: 95 Resp: 559324  
Ion Ratio Lower Upper  
95 100  
174 78.8 0.0 187.2  
176 75.6 0.0 181.4

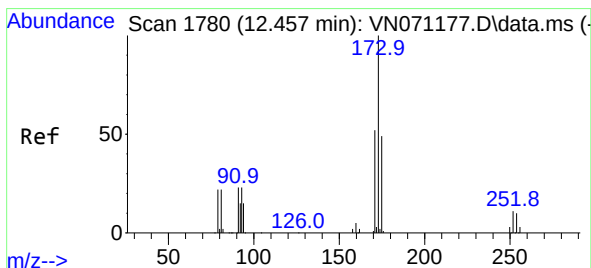
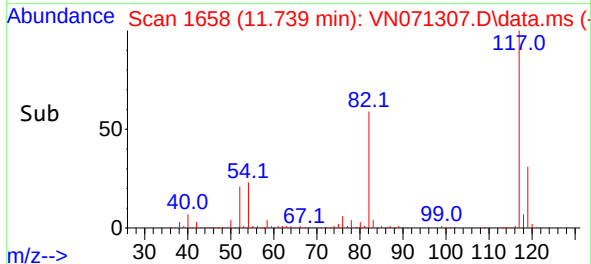
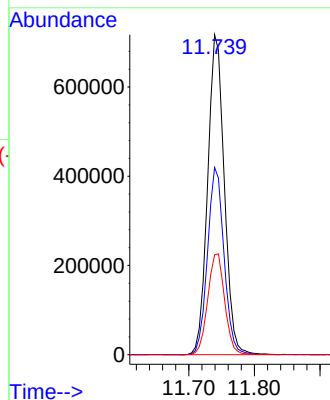
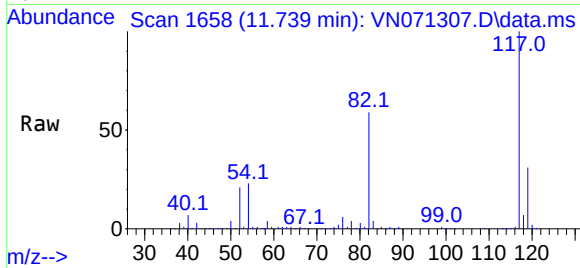




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.739 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

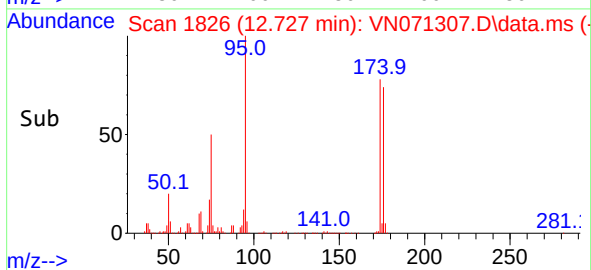
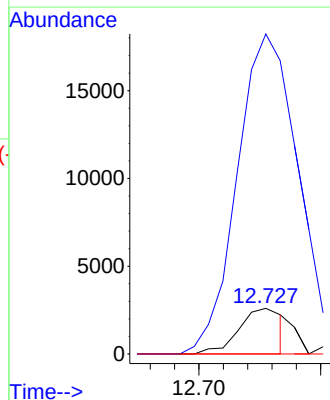
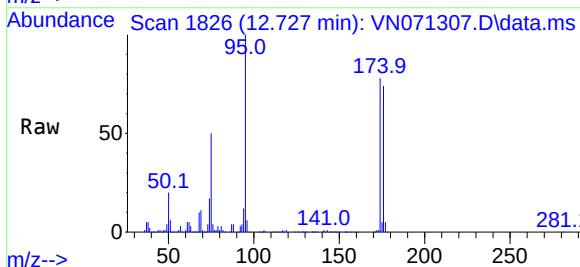
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ClientSampleId :  
PB143286ZHE#13

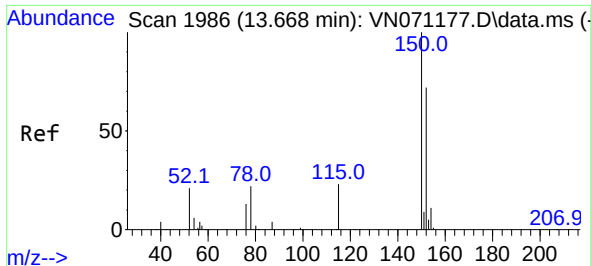
Tgt Ion:117 Resp: 1266804  
Ion Ratio Lower Upper  
117 100  
82 58.5 42.4 63.6  
119 31.2 25.4 38.2



#71  
Bromoform  
Concen: 0.424 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.270 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

Tgt Ion:173 Resp: 3213  
Ion Ratio Lower Upper  
173 100  
175 744.0 24.2 72.6#  
254 0.0 0.0 0.0

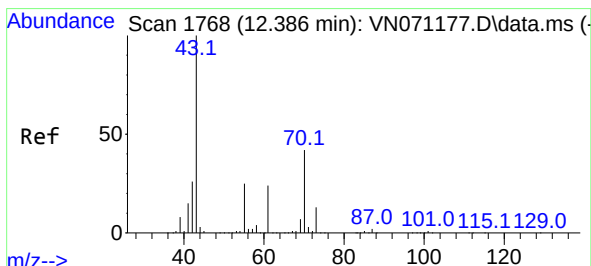
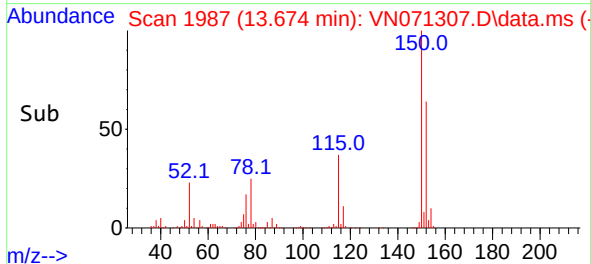
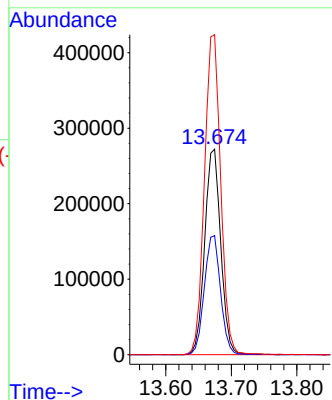
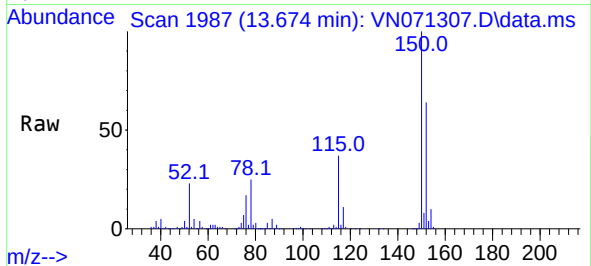




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.674 min Scan# 1986  
Delta R.T. 0.006 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

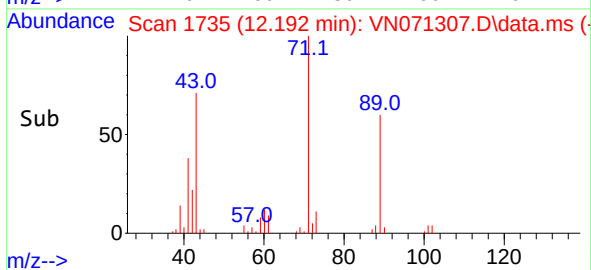
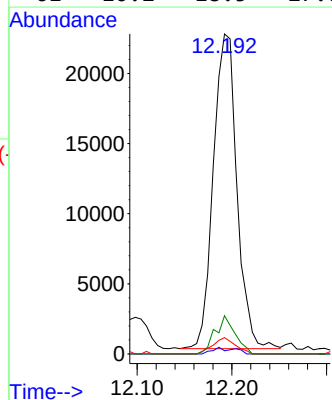
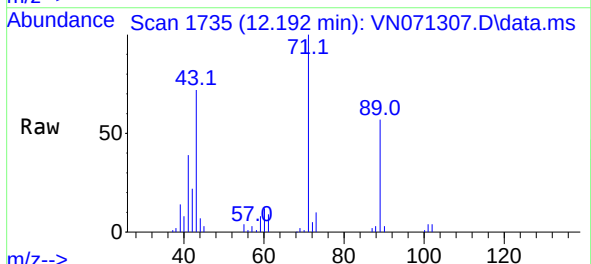
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB143286ZHE#13

Tgt Ion:152 Resp: 464136  
Ion Ratio Lower Upper  
152 100  
115 58.6 27.5 82.5  
150 157.7 0.0 344.4

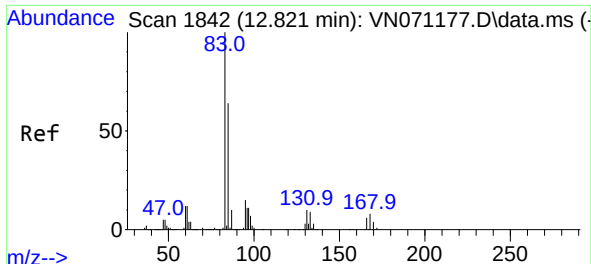


#74  
N-ethyl acetate  
Concen: 2.310 ug/l  
RT: 12.192 min Scan# 1735  
Delta R.T. -0.194 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

Tgt Ion: 43 Resp: 38867  
Ion Ratio Lower Upper  
43 100  
70 1.9 33.4 50.0#  
55 5.0 19.3 28.9#  
61 10.2 18.5 27.7#



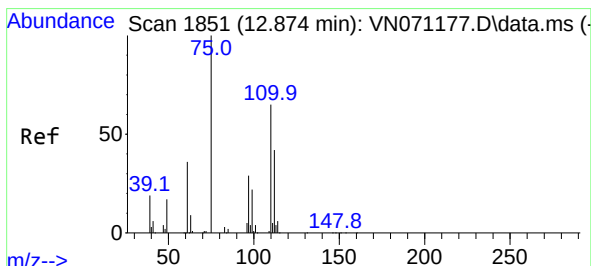
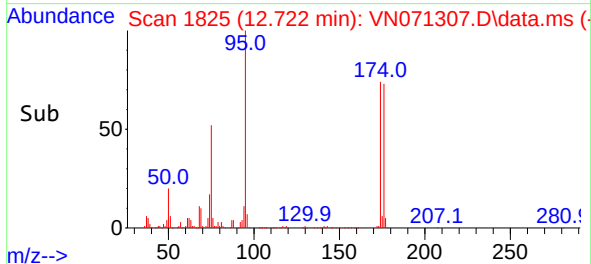
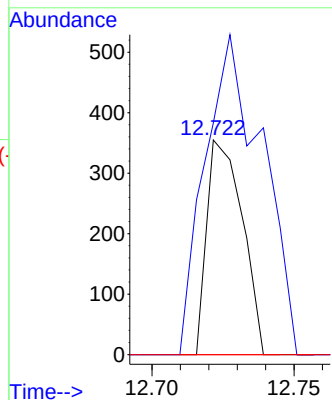
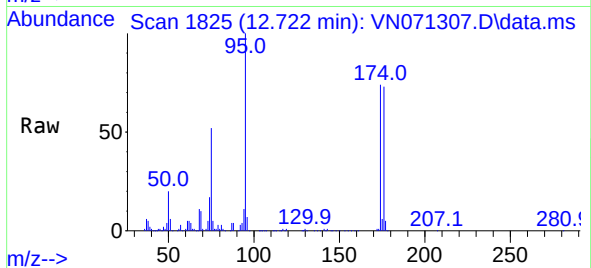




#75  
1,1,2,2-Tetrachloroethane  
Concen: Below Cal  
RT: 12.722 min Scan# 1825  
Delta R.T. -0.099 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

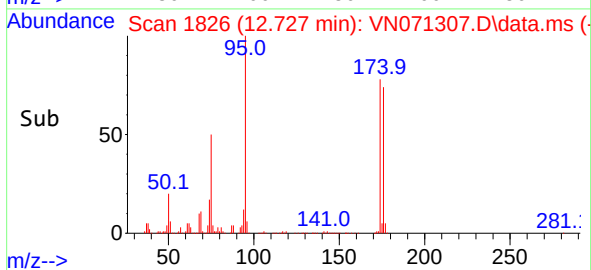
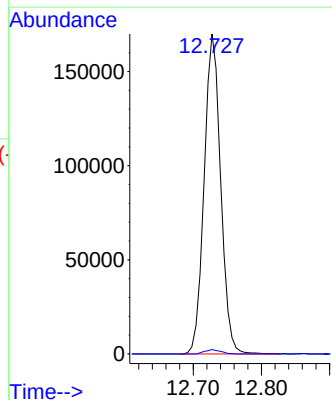
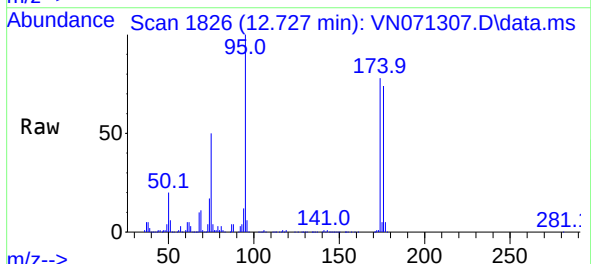
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB143286ZHE#13

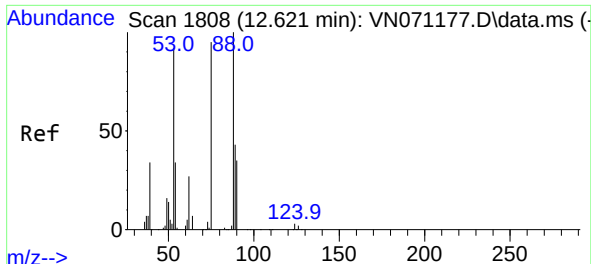
Tgt Ion: 83 Resp: 307  
Ion Ratio Lower Upper  
83 100  
131 241.0 5.5 16.5#  
85 0.0 32.4 97.2#



#76  
1,2,3-Trichloropropane  
Concen: 24.007 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. -0.147 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

Tgt Ion: 75 Resp: 286563  
Ion Ratio Lower Upper  
75 100  
77 1.3 82.6 247.8#

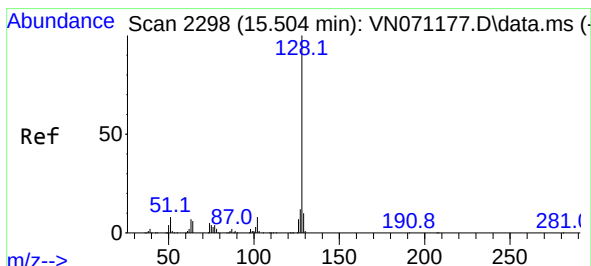
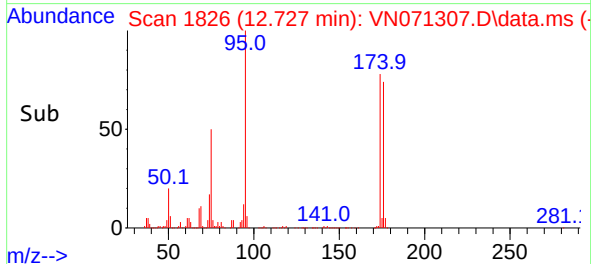
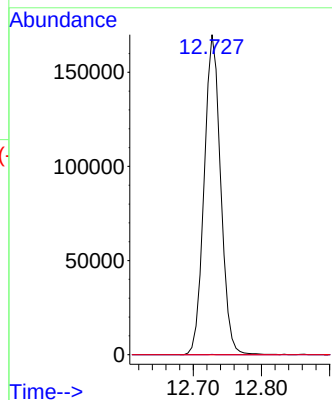
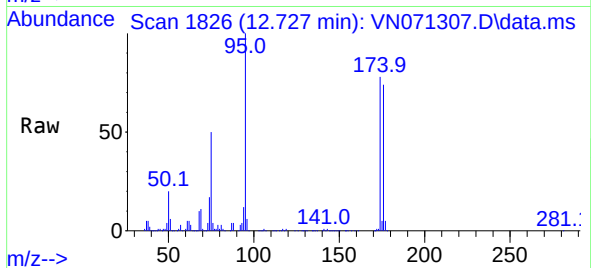




#81  
trans-1,4-Dichloro-2-butene  
Concen: 66.742 ug/l  
RT: 12.727 min Scan# 1808  
Delta R.T. 0.106 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB143286ZHE#13

Tgt Ion: 75 Resp: 286563  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 38.2 57.4#



#95  
Naphthalene  
Concen: 5.073 ug/l  
RT: 15.504 min Scan# 2298  
Delta R.T. -0.000 min  
Lab File: VN071307.D  
Acq: 15 Mar 2022 21:17

Tgt Ion:128 Resp: 135  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.5 15.7#  
129 0.0 8.7 13.1#

