

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022723\  
 Data File : VN076819.D  
 Acq On : 27 Feb 2023 12:02  
 Operator : JC\MD  
 Sample : 01653-01 5000X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 OK-0567

Quant Time: Feb 28 01:50:42 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021323W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 14 01:44:47 2023  
 Response via : Initial Calibration

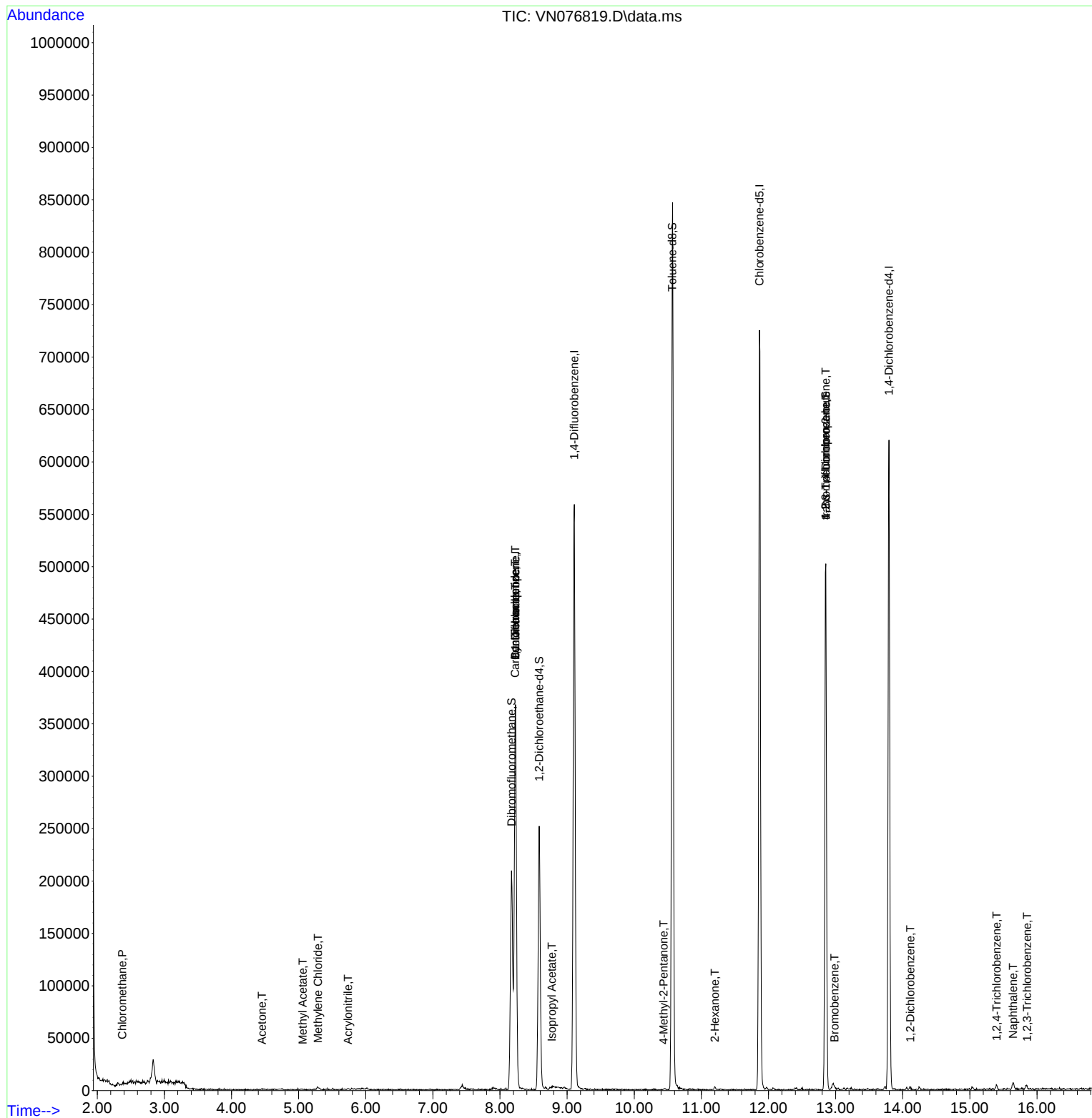
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 8.230  | 168   | 260654   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.107  | 114   | 467904   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.866 | 117   | 400220   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.795 | 152   | 151685   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.583  | 65    | 191967   | 53.335   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 106.680% |
| 35) Dibromofluoromethane      | 8.172  | 113   | 142596   | 46.536   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 93.080%  |
| 50) Toluene-d8                | 10.566 | 98    | 568260   | 49.658   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 99.320%  |
| 62) 4-Bromofluorobenzene      | 12.854 | 95    | 163025   | 43.013   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 86.020%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 2.372  | 50    | 810      | 0.224    | ug/l # | 44       |
| 15) Acrylonitrile             | 5.737  | 53    | 732      | 0.434    | ug/l # | 42       |
| 16) Acetone                   | 4.454  | 43    | 1069     | 0.665    | ug/l # | 82       |
| 18) Methyl Acetate            | 5.060  | 43    | 1085     | 0.207    | ug/l # | 54       |
| 20) Methylene Chloride        | 5.290  | 84    | 1593     | 0.473    | ug/l # | 37       |
| 31) Cyclohexane               | 8.230  | 56    | 7851     | 1.391    | ug/l # | 31       |
| 36) 1,1-Dichloropropene       | 8.230  | 75    | 22821    | 5.155    | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.225  | 117   | 28004    | 6.270    | ug/l # | 18       |
| 43) Isopropyl Acetate         | 8.772  | 43    | 2703     | 0.357    | ug/l # | 56       |
| 51) 4-Methyl-2-Pentanone      | 10.436 | 43    | 1291     | 0.268    | ug/l # | 77       |
| 59) 2-Hexanone                | 11.201 | 43    | 1725     | 0.496    | ug/l   | 81       |
| 76) 1,2,3-Trichloropropane    | 12.854 | 75    | 92142    | 30.047   | ug/l # | 1        |
| 77) Bromobenzene              | 12.983 | 156   | 666      | 0.240    | ug/l # | 35       |
| 81) trans-1,4-Dichloro-2-b... | 12.854 | 75    | 92142    | 87.513   | ug/l # | 4        |
| 91) 1,2-Dichlorobenzene       | 14.112 | 146   | 1087     | 0.202    | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 15.401 | 180   | 1507     | 0.562    | ug/l # | 63       |
| 95) Naphthalene               | 15.642 | 128   | 6218     | 0.764    | ug/l # | 91       |
| 96) 1,2,3-Trichlorobenzene    | 15.854 | 180   | 1989     | 0.766    | ug/l # | 75       |
| -----                         |        |       |          |          |        |          |

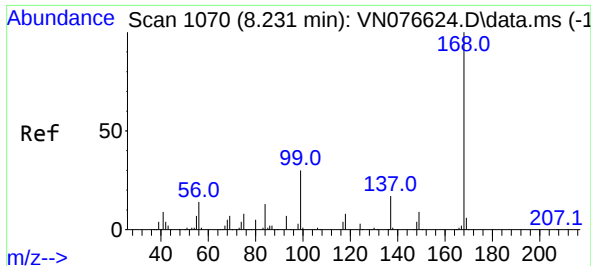
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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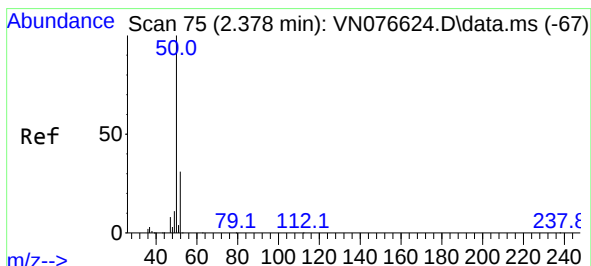
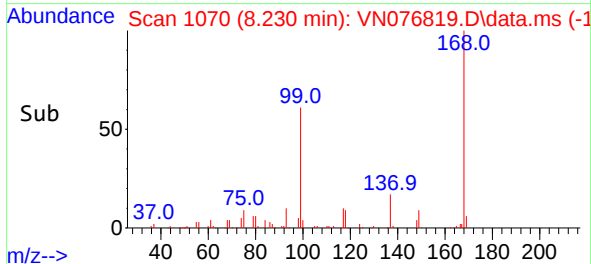
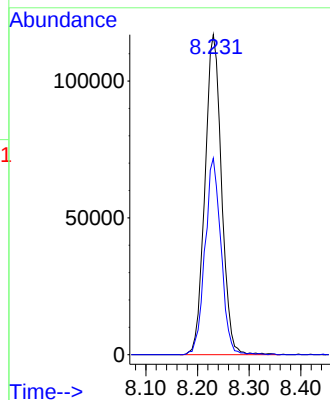
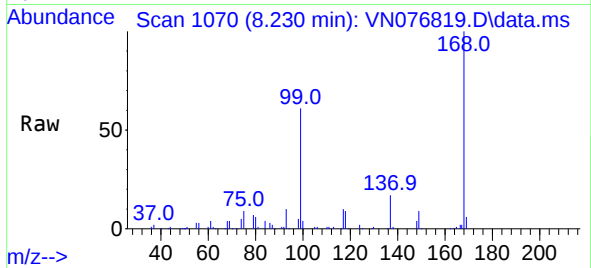




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 1  
Delta R.T. -0.001 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

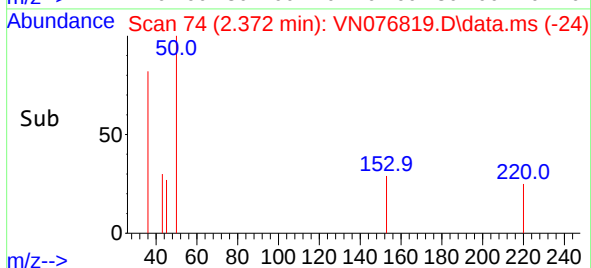
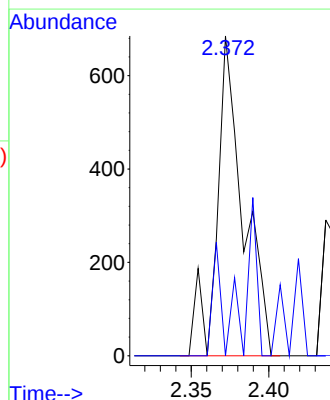
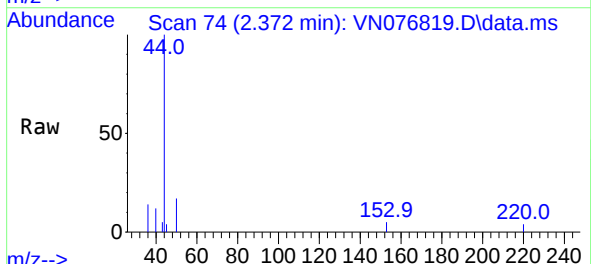
Instrument :  
MSVOA\_N  
ClientSampleId :  
OK-0567

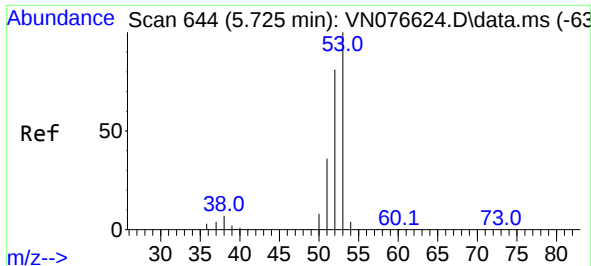
Tgt Ion:168 Resp: 260654  
Ion Ratio Lower Upper  
168 100  
99 61.4 44.8 67.2



#3  
Chloromethane  
Concen: 0.224 ug/l  
RT: 2.372 min Scan# 74  
Delta R.T. -0.006 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

Tgt Ion: 50 Resp: 810  
Ion Ratio Lower Upper  
50 100  
52 0.0 24.7 37.1#

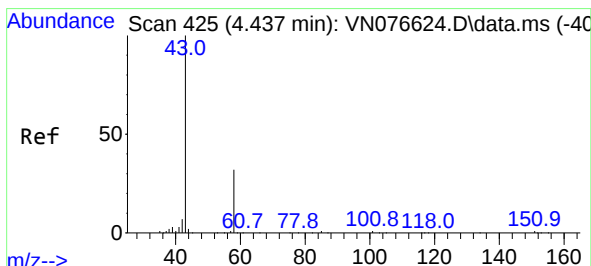
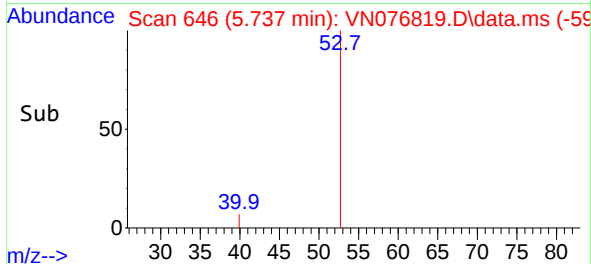
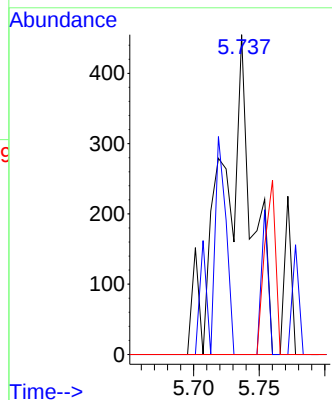
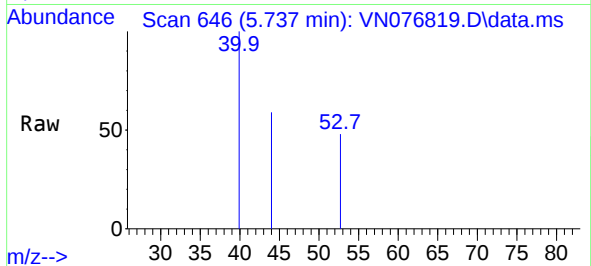




#15  
Acrylonitrile  
Concen: 0.434 ug/l  
RT: 5.737 min Scan# 64  
Delta R.T. 0.012 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

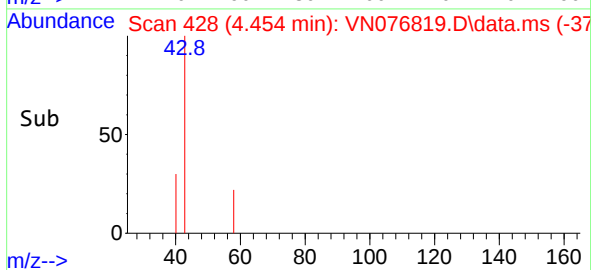
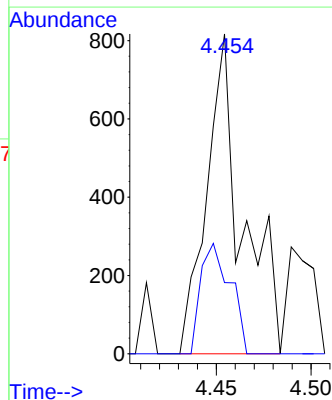
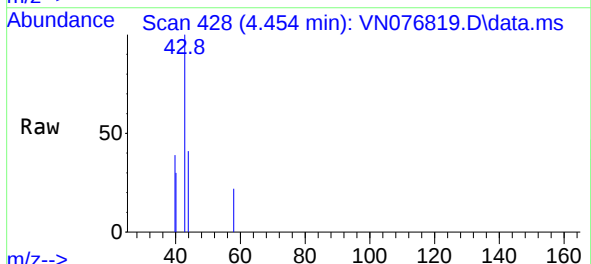
Instrument :  
MSVOA\_N  
ClientSampleId :  
OK-0567

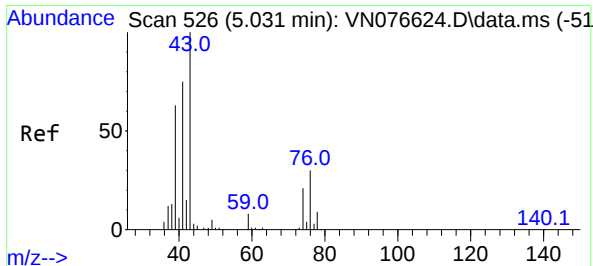
Tgt Ion: 53 Resp: 732  
Ion Ratio Lower Upper  
53 100  
52 32.0 65.3 97.9#  
51 0.0 29.2 43.8#



#16  
Acetone  
Concen: 0.665 ug/l  
RT: 4.454 min Scan# 428  
Delta R.T. 0.017 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

Tgt Ion: 43 Resp: 1069  
Ion Ratio Lower Upper  
43 100  
58 22.3 25.9 38.9#

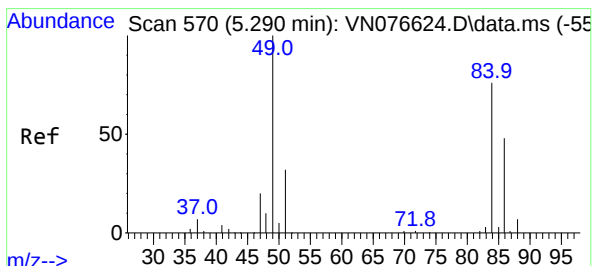
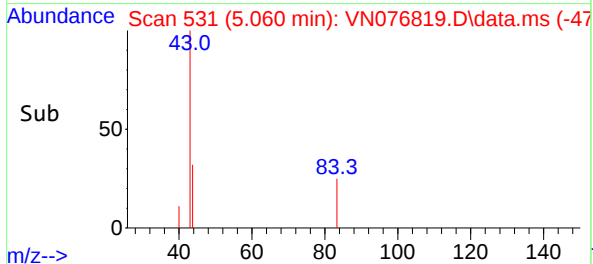
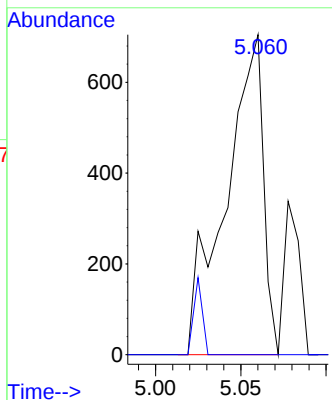
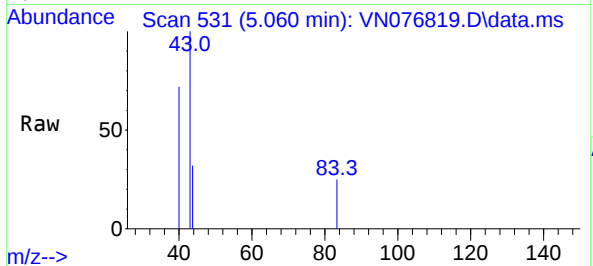




#18  
Methyl Acetate  
Concen: 0.207 ug/l  
RT: 5.060 min Scan# 51  
Delta R.T. 0.029 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

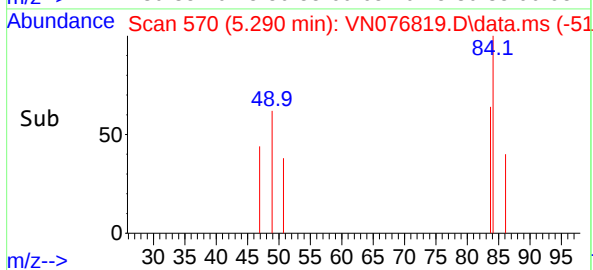
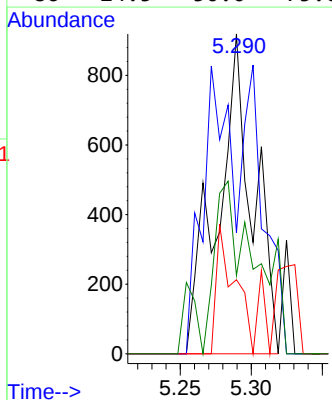
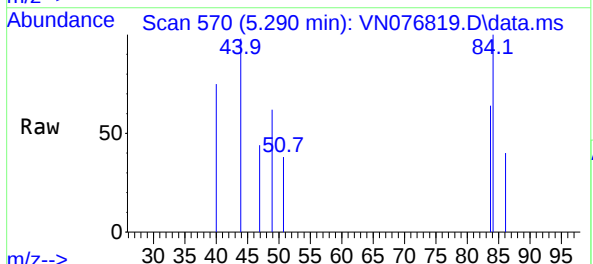
Instrument :  
MSVOA\_N  
ClientSampleId :  
OK-0567

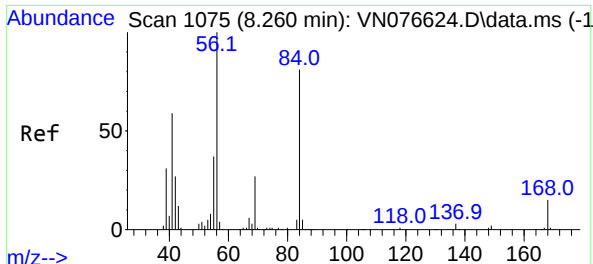
Tgt Ion: 43 Resp: 1085  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.7 26.5#



#20  
Methylene Chloride  
Concen: 0.473 ug/l  
RT: 5.290 min Scan# 570  
Delta R.T. -0.000 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

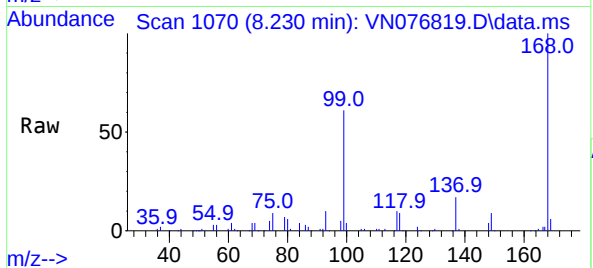
Tgt Ion: 84 Resp: 1593  
Ion Ratio Lower Upper  
84 100  
49 37.8 104.9 157.3#  
51 23.2 33.8 50.8#  
86 24.5 50.0 75.0#



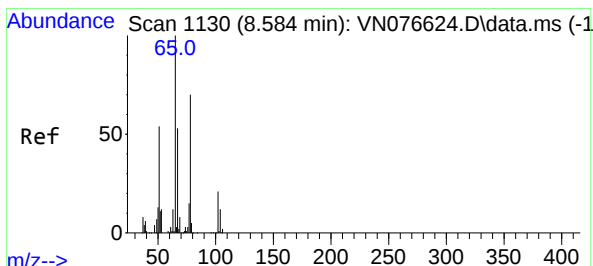
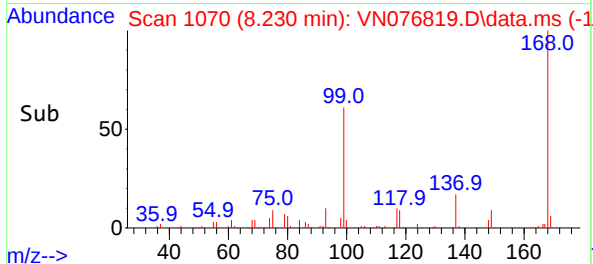
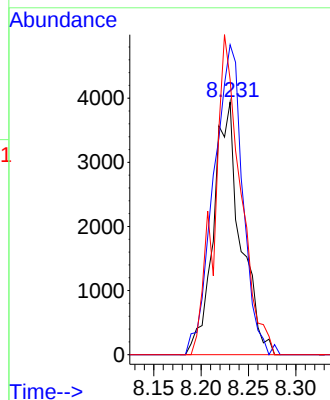


#31  
Cyclohexane  
Concen: 1.391 ug/l  
RT: 8.230 min Scan# 1075  
Delta R.T. -0.030 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

Instrument :  
MSVOA\_N  
ClientSampleId :  
OK-0567

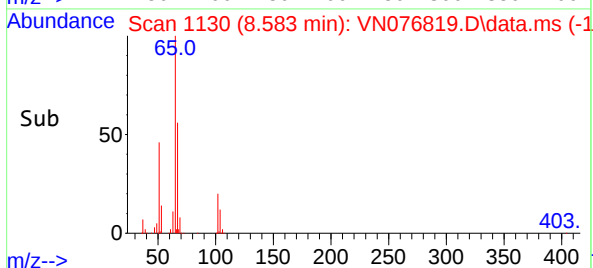
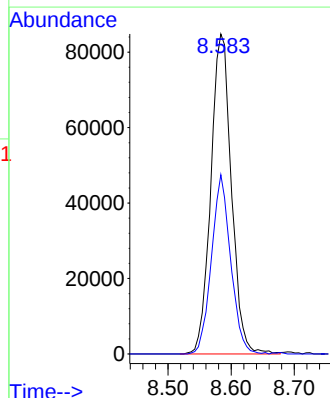
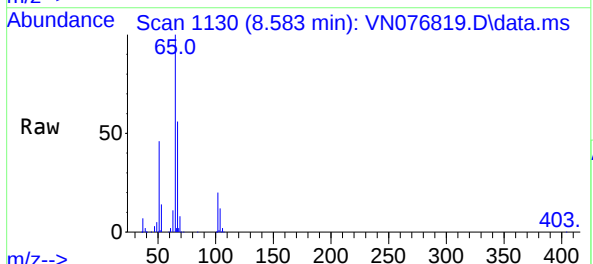


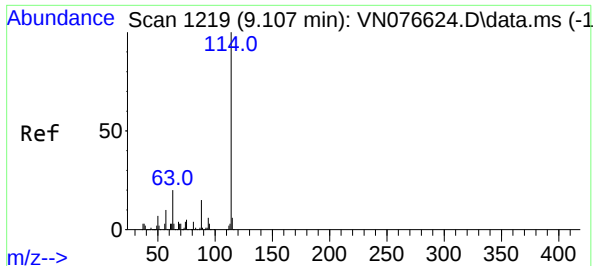
Tgt Ion: 56 Resp: 7851  
Ion Ratio Lower Upper  
56 100  
69 122.6 21.6 32.4#  
84 108.8 65.1 97.7#



#33  
1,2-Dichloroethane-d4  
Concen: 53.335 ug/l  
RT: 8.583 min Scan# 1130  
Delta R.T. -0.001 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

Tgt Ion: 65 Resp: 191967  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 105.6



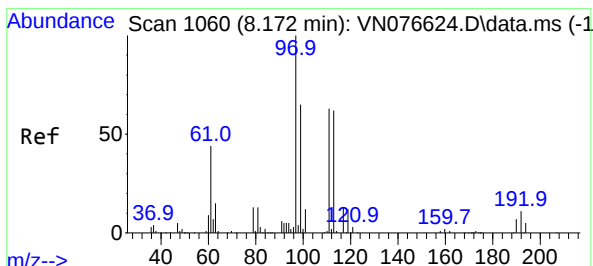
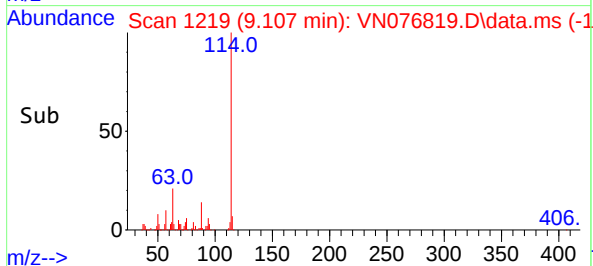
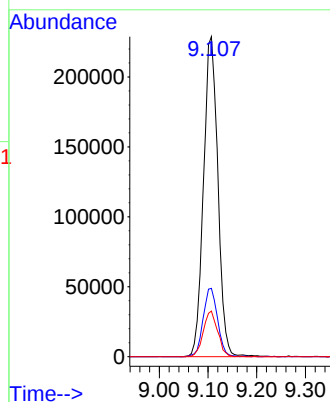
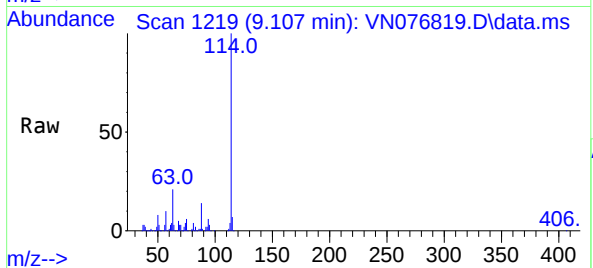


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.107 min Scan# 1219  
Delta R.T. -0.000 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

Instrument :  
MSVOA\_N  
ClientSampleId :  
OK-0567

Tgt Ion:114 Resp: 467904

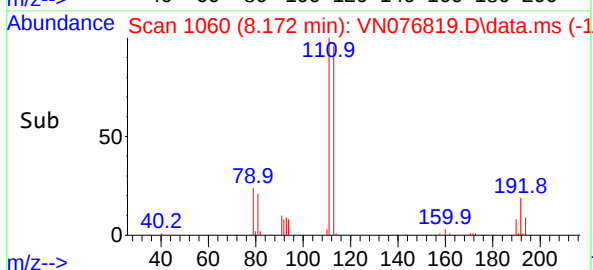
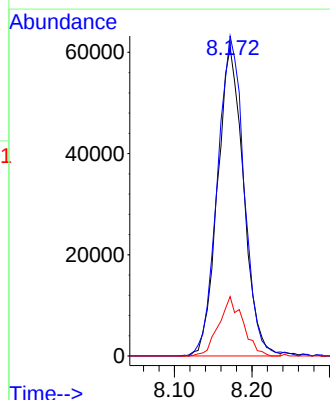
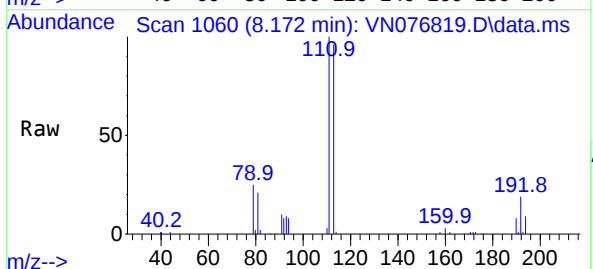
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 21.4  | 0.0   | 40.0  |
| 88  | 14.3  | 0.0   | 29.6  |

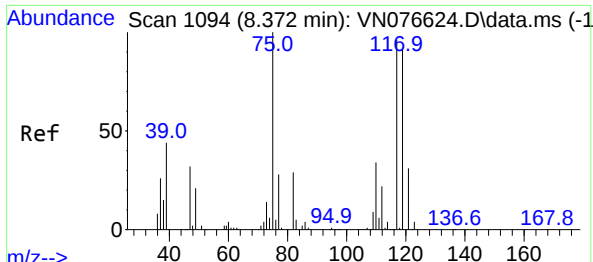


#35  
Dibromofluoromethane  
Concen: 46.536 ug/l  
RT: 8.172 min Scan# 1060  
Delta R.T. -0.000 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

Tgt Ion:113 Resp: 142596

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 106.0 | 83.1  | 124.7 |
| 192 | 17.9  | 15.6  | 23.4  |





#36

1,1-Dichloropropene

Concen: 5.155 ug/l

RT: 8.230 min Scan# 1069

Delta R.T. -0.142 min

Lab File: VN076819.D

Acq: 27 Feb 2023 12:02

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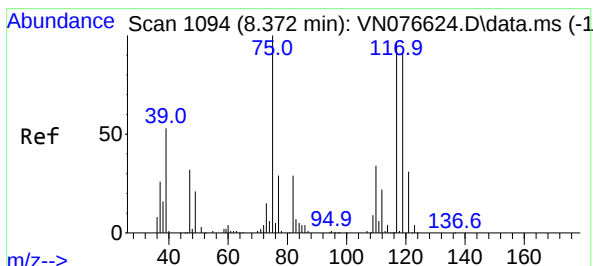
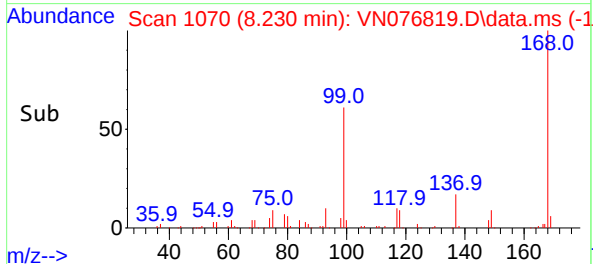
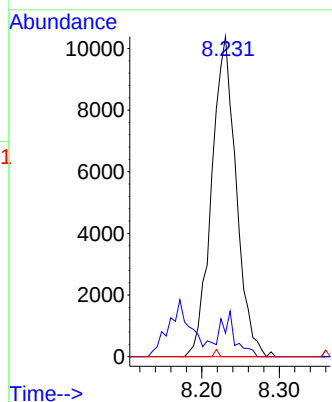
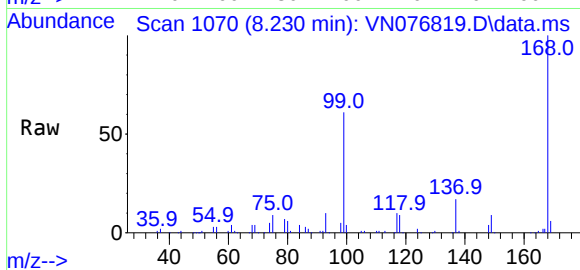
Tgt Ion: 75 Resp: 22821

Ion Ratio Lower Upper

75 100

110 8.4 17.5 52.5#

77 0.4 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 6.270 ug/l

RT: 8.225 min Scan# 1069

Delta R.T. -0.147 min

Lab File: VN076819.D

Acq: 27 Feb 2023 12:02

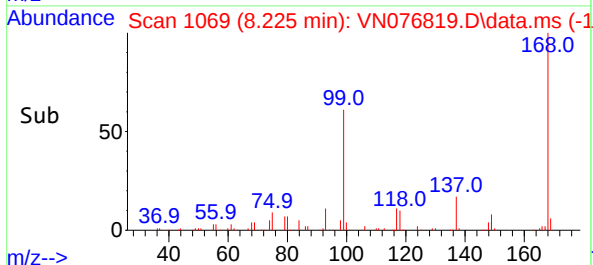
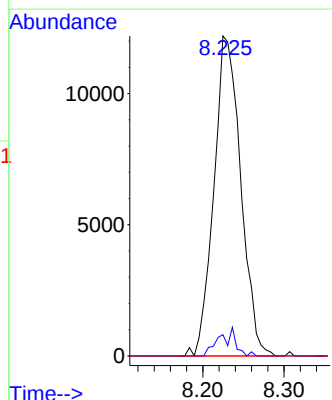
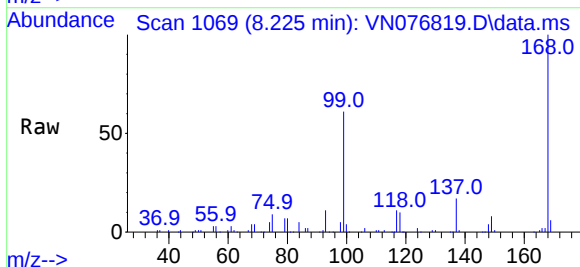
Tgt Ion: 117 Resp: 28004

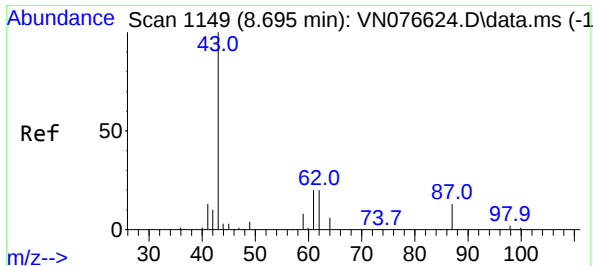
Ion Ratio Lower Upper

117 100

119 6.6 75.4 113.0#

121 0.0 26.0 39.0#

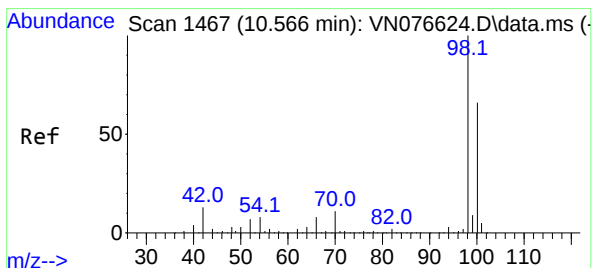
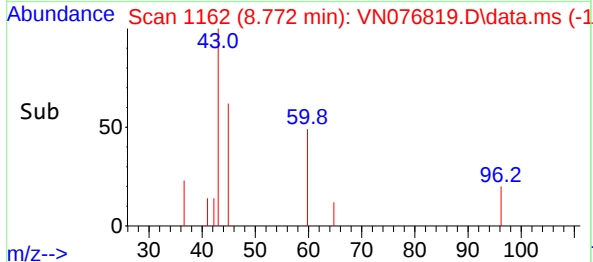
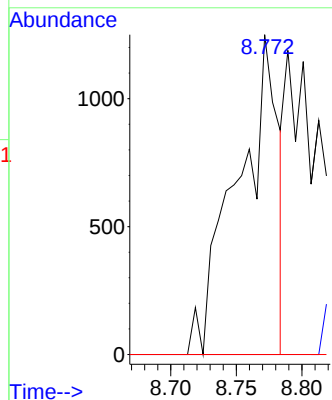
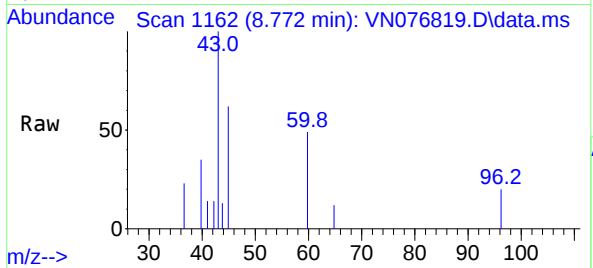




#43  
Isopropyl Acetate  
Concen: 0.357 ug/l  
RT: 8.772 min Scan# 1149  
Delta R.T. 0.077 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

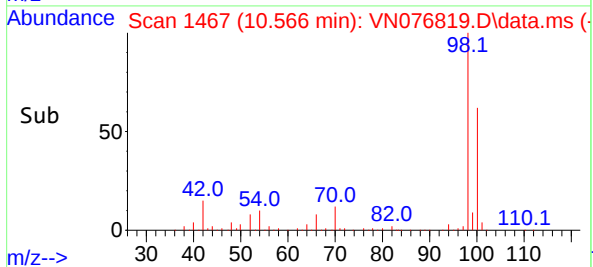
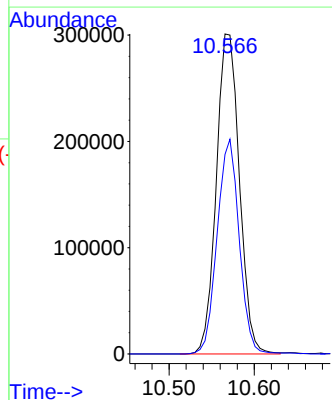
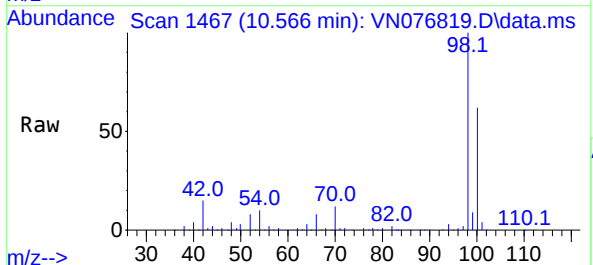
Instrument :  
MSVOA\_N  
ClientSampleId :  
OK-0567

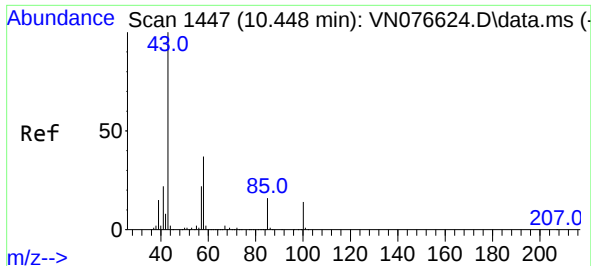
Tgt Ion: 43 Resp: 2703  
Ion Ratio Lower Upper  
43 100  
61 0.0 20.0 30.0#  
87 0.0 9.9 14.9#



#50  
Toluene-d8  
Concen: 49.658 ug/l  
RT: 10.566 min Scan# 1467  
Delta R.T. -0.000 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

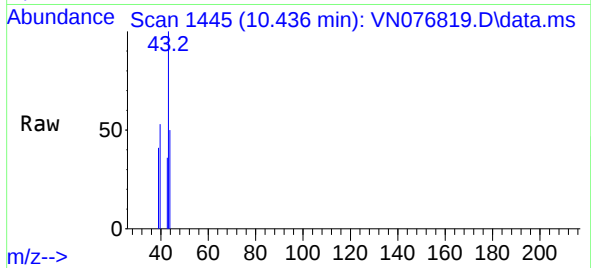
Tgt Ion: 98 Resp: 568260  
Ion Ratio Lower Upper  
98 100  
100 64.1 52.9 79.3



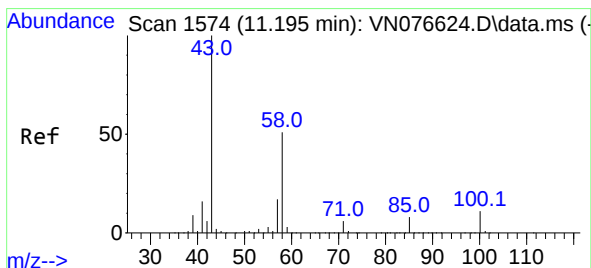
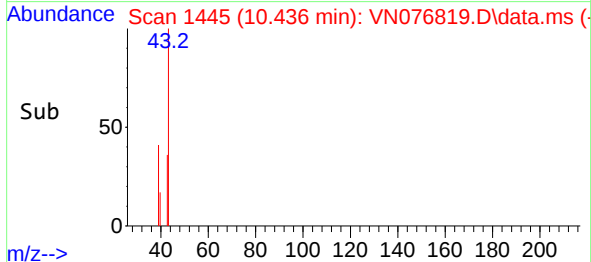
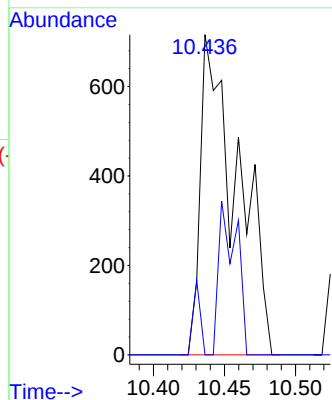


#51  
4-Methyl-2-Pentanone  
Concen: 0.268 ug/l  
RT: 10.436 min Scan# 1445  
Delta R.T. -0.012 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

Instrument :  
MSVOA\_N  
ClientSampleId :  
OK-0567

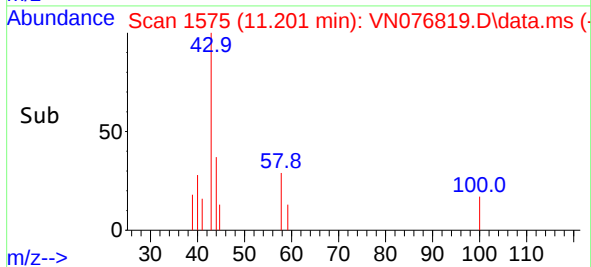
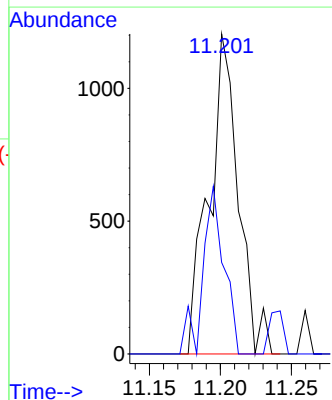
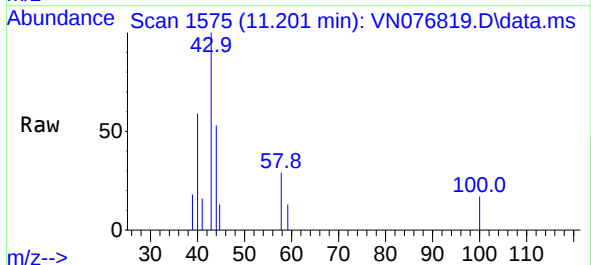


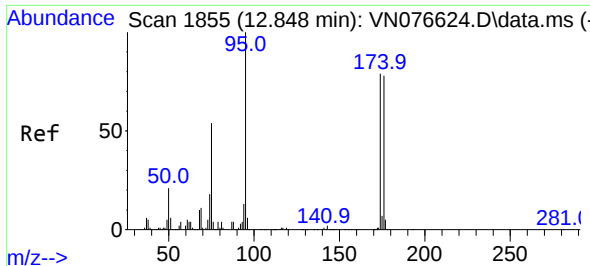
Tgt Ion: 43 Resp: 1291  
Ion Ratio Lower Upper  
43 100  
58 23.2 29.5 44.3#



#59  
2-Hexanone  
Concen: 0.496 ug/l  
RT: 11.201 min Scan# 1575  
Delta R.T. 0.006 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

Tgt Ion: 43 Resp: 1725  
Ion Ratio Lower Upper  
43 100  
58 37.7 25.4 76.0

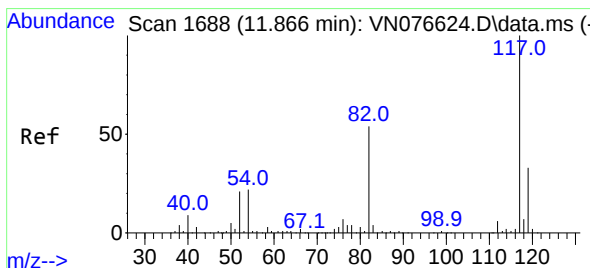
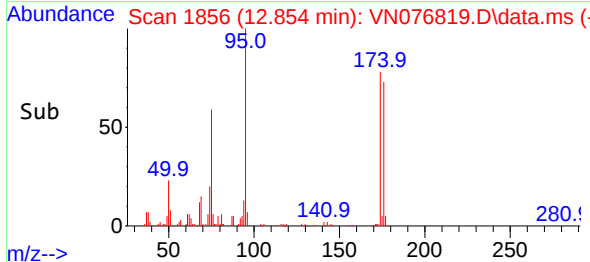
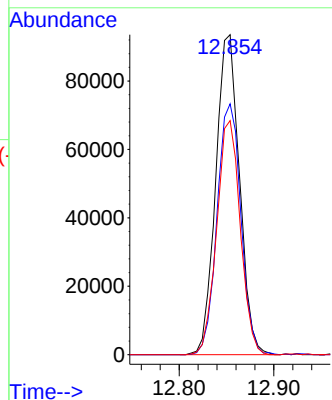
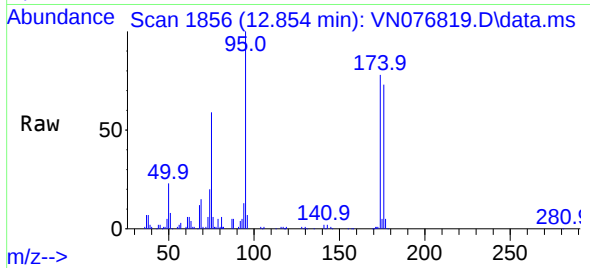




#62  
4-Bromofluorobenzene  
Concen: 43.013 ug/l  
RT: 12.854 min Scan# 1855  
Delta R.T. 0.006 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

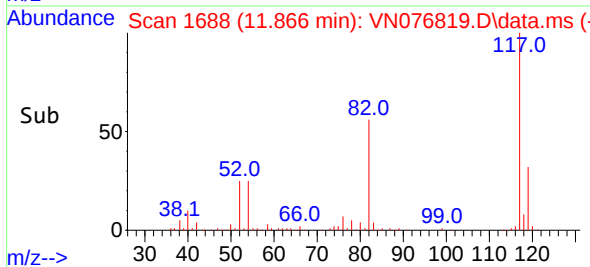
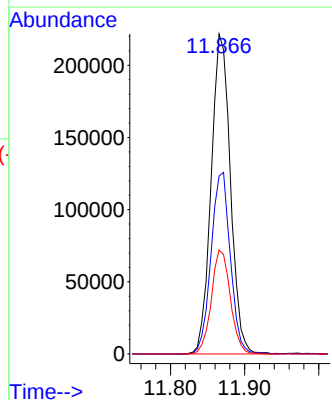
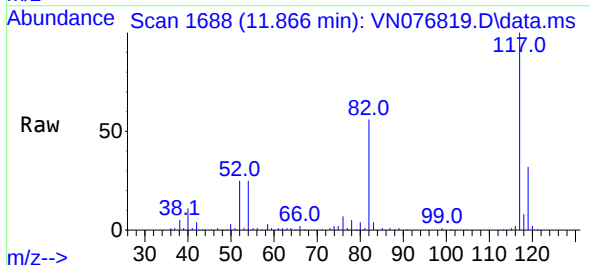
Instrument :  
MSVOA\_N  
ClientSampleId :  
OK-0567

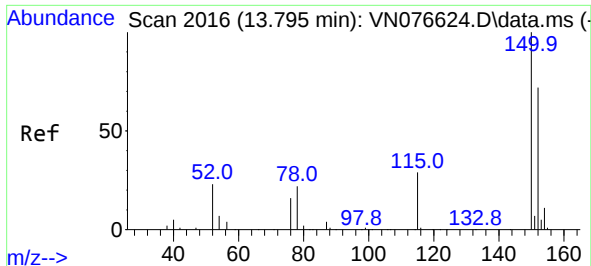
Tgt Ion: 95 Resp: 163025  
Ion Ratio Lower Upper  
95 100  
174 78.6 0.0 169.2  
176 72.6 0.0 163.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.866 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

Tgt Ion: 117 Resp: 400220  
Ion Ratio Lower Upper  
117 100  
82 55.6 43.4 65.2  
119 32.5 26.1 39.1

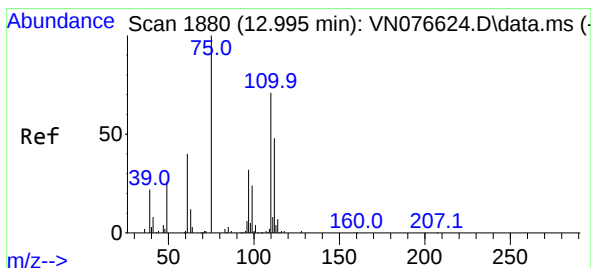
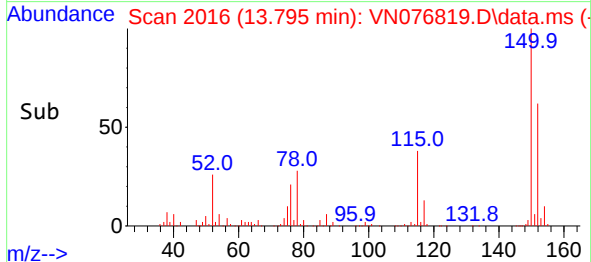
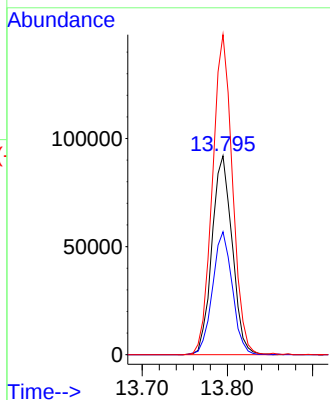
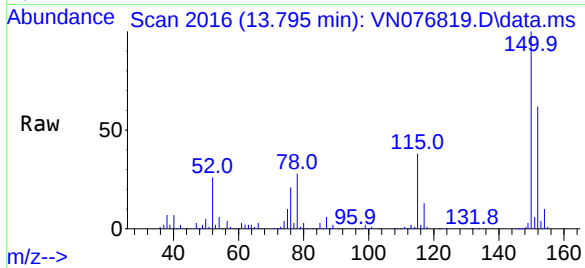




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.795 min Scan# 2016  
Delta R.T. -0.000 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

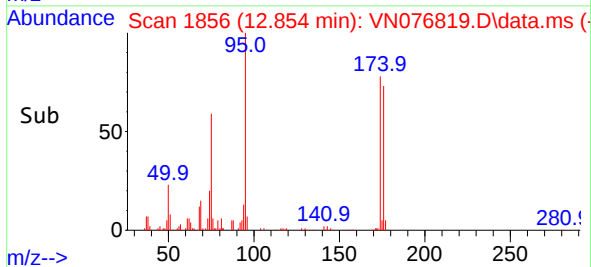
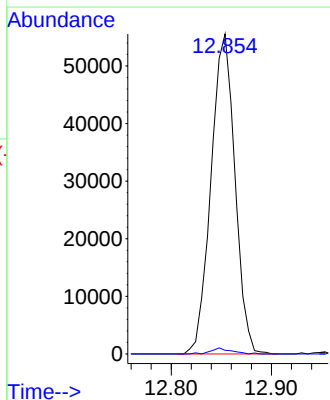
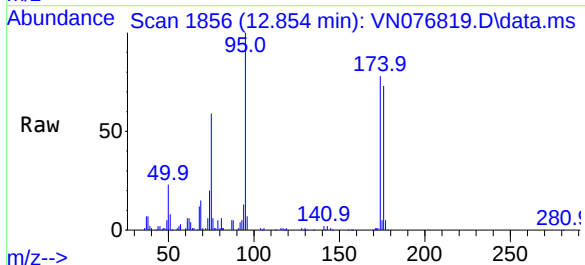
Instrument :  
MSVOA\_N  
ClientSampleId :  
OK-0567

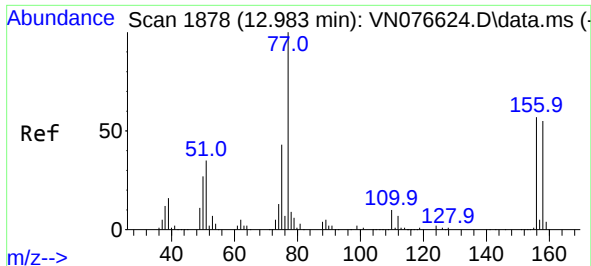
Tgt Ion:152 Resp: 151685  
Ion Ratio Lower Upper  
152 100  
115 60.5 29.3 87.9  
150 159.4 0.0 349.8



#76  
1,2,3-Trichloropropane  
Concen: 30.047 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. -0.141 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

Tgt Ion: 75 Resp: 92142  
Ion Ratio Lower Upper  
75 100  
77 1.6 93.1 279.3#

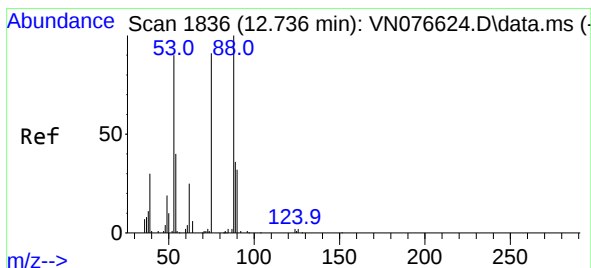
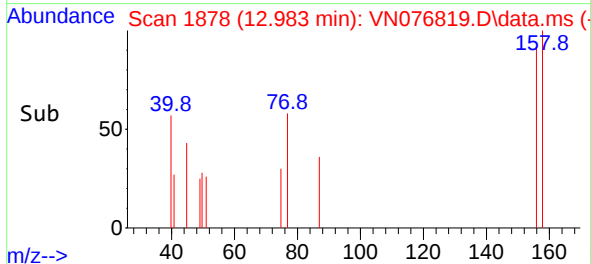
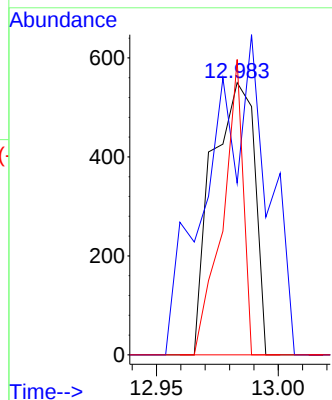
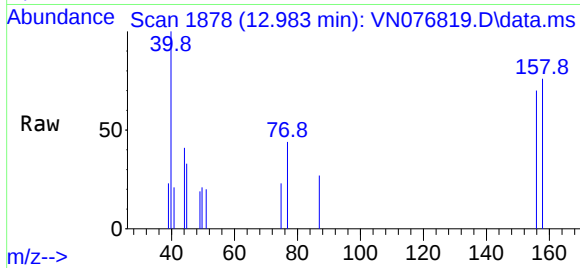




#77  
Bromobenzene  
Concen: 0.240 ug/l  
RT: 12.983 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

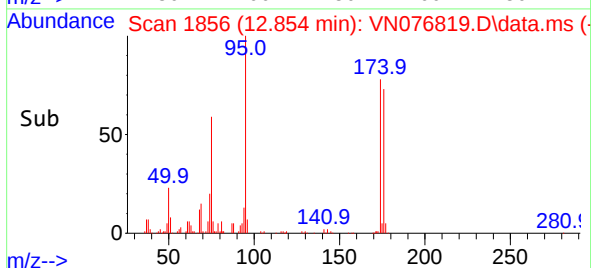
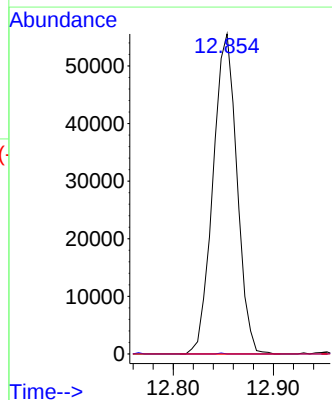
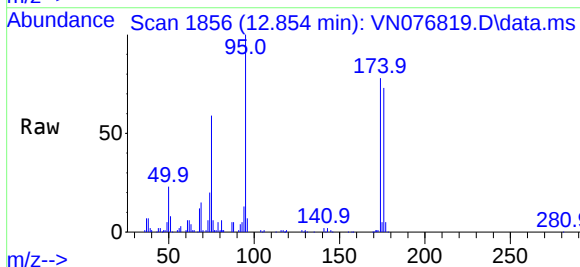
Instrument :  
MSVOA\_N  
ClientSampleId :  
OK-0567

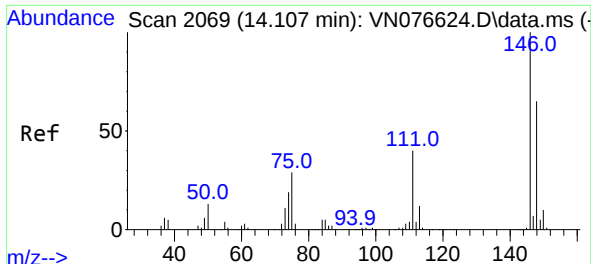
Tgt Ion:156 Resp: 666  
Ion Ratio Lower Upper  
156 100  
77 91.3 102.8 308.4#  
158 52.9 48.9 146.6



#81  
trans-1,4-Dichloro-2-butene  
Concen: 87.513 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. 0.118 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

Tgt Ion: 75 Resp: 92142  
Ion Ratio Lower Upper  
75 100  
53 0.1 92.1 138.1#  
89 0.0 37.5 56.3#

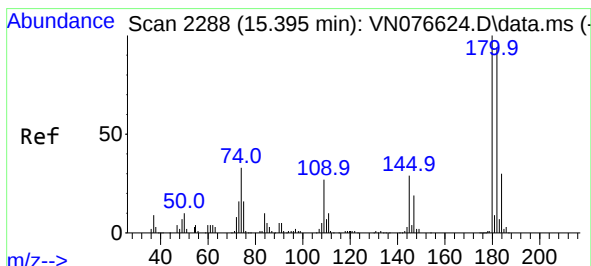
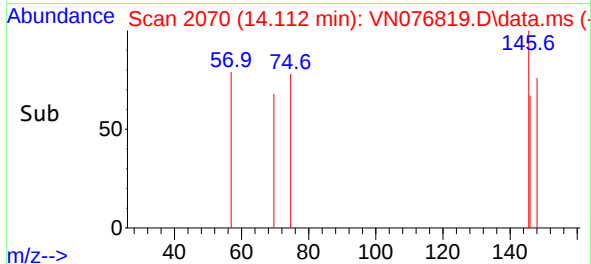
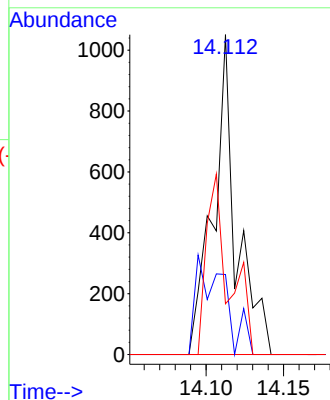
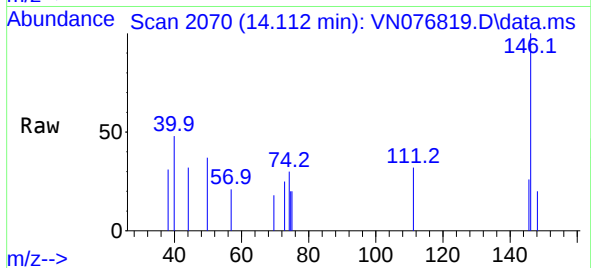




#91  
1,2-Dichlorobenzene  
Concen: 0.202 ug/l  
RT: 14.112 min Scan# 2069  
Delta R.T. 0.005 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

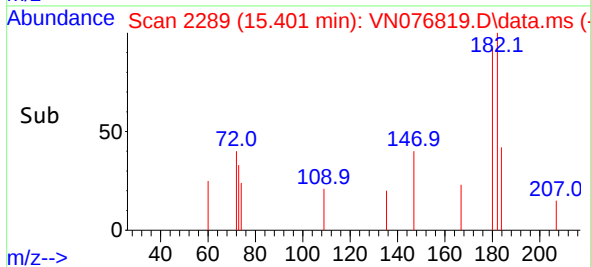
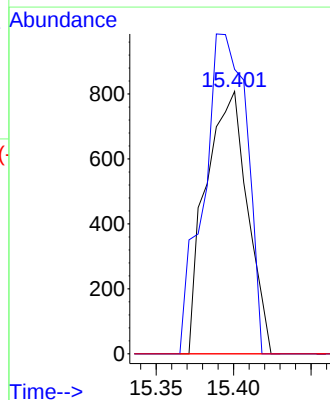
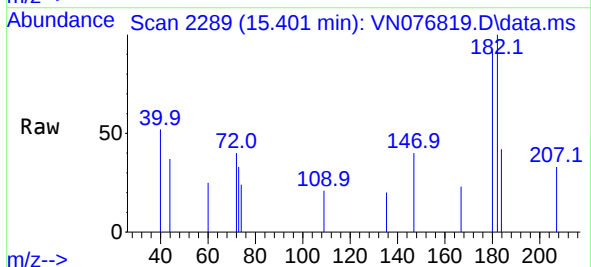
Instrument :  
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ClientSampleId :  
OK-0567

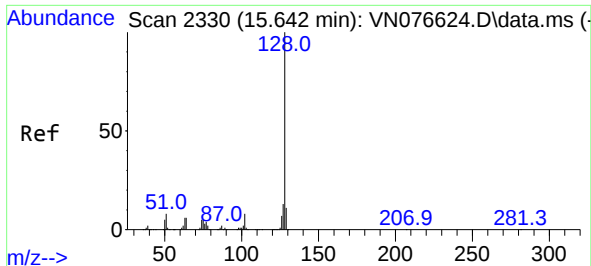
Tgt Ion:146 Resp: 1087  
Ion Ratio Lower Upper  
146 100  
111 38.5 20.0 59.9  
148 55.0 32.4 97.2



#93  
1,2,4-Trichlorobenzene  
Concen: 0.562 ug/l  
RT: 15.401 min Scan# 2289  
Delta R.T. 0.006 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

Tgt Ion:180 Resp: 1507  
Ion Ratio Lower Upper  
180 100  
182 126.1 48.0 144.0  
145 0.0 15.2 45.6#

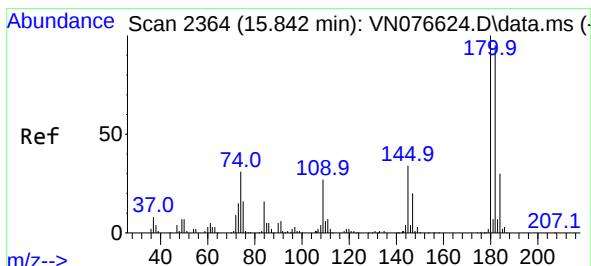
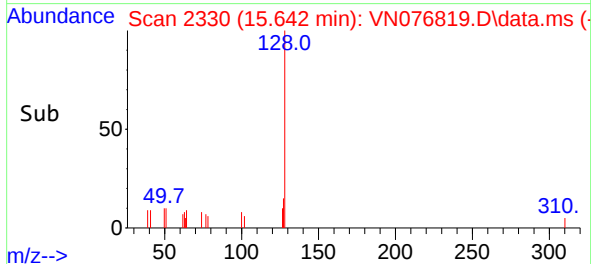
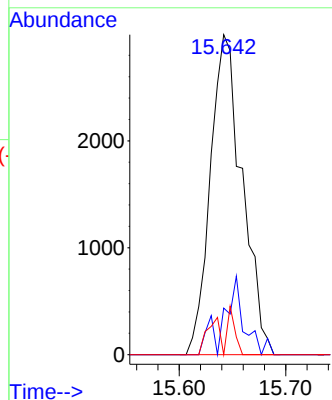
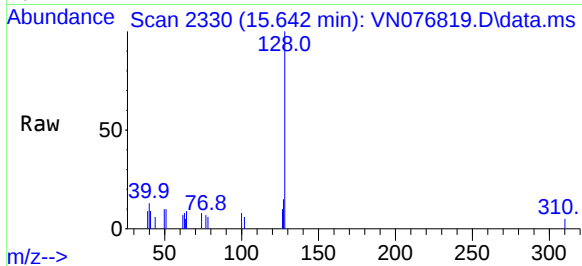




#95  
Naphthalene  
Concen: 0.764 ug/l  
RT: 15.642 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

Instrument :  
MSVOA\_N  
ClientSampleId :  
OK-0567

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 6218  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 13.2  | 10.6  | 16.0  |
| 129      | 3.5   | 8.6   | 13.0  |



#96  
1,2,3-Trichlorobenzene  
Concen: 0.766 ug/l  
RT: 15.854 min Scan# 2366  
Delta R.T. 0.012 min  
Lab File: VN076819.D  
Acq: 27 Feb 2023 12:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 1989  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 74.3  | 46.7  | 140.1 |
| 145      | 9.2   | 16.0  | 47.9  |

