

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022322\  
 Data File : VN071044.D  
 Acq On : 23 Feb 2022 19:45  
 Operator : JC\MD  
 Sample : N1642-08 50X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 31409

Quant Time: Feb 24 00:42:08 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021522W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 21 07:57:15 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.087  | 168  | 822969   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.963  | 114  | 1295363  | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.739 | 117  | 1150754  | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.674 | 152  | 379345   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.439  | 65    | 495009   | 52.655   | ug/l | 0.01     |
| Spiked Amount               | 50.000 | Range | 61 - 141 | Recovery | =    | 105.320% |
| 35) Dibromofluoromethane    | 8.022  | 113   | 381632   | 49.532   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 69 - 133 | Recovery | =    | 99.060%  |
| 50) Toluene-d8              | 10.439 | 98    | 1582436  | 51.142   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 65 - 126 | Recovery | =    | 102.280% |
| 62) 4-Bromofluorobenzene    | 12.727 | 95    | 516688   | 46.717   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 135 | Recovery | =    | 93.440%  |

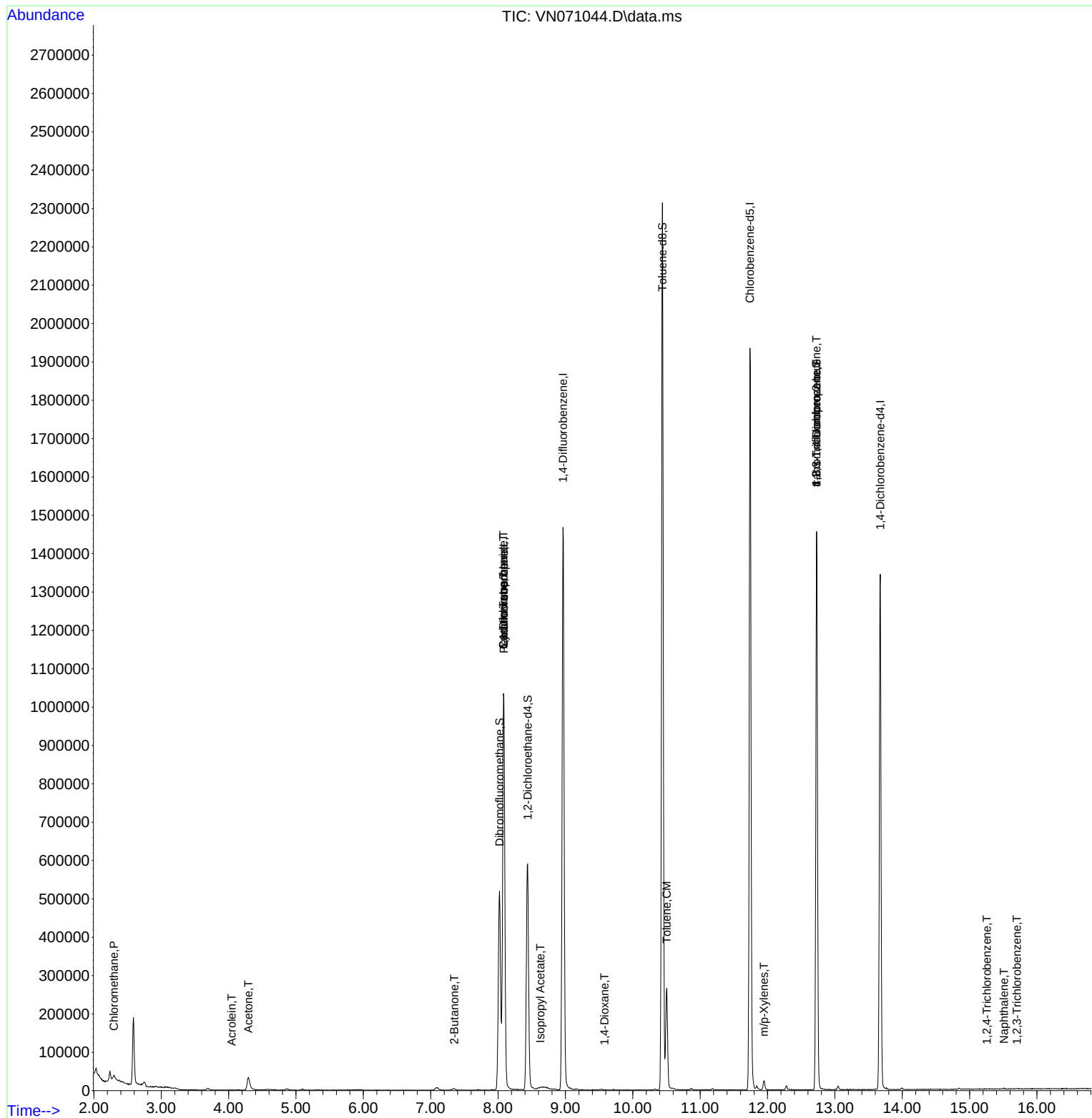
| Target Compounds              |        |     |        |           | Qvalue |    |
|-------------------------------|--------|-----|--------|-----------|--------|----|
| 3) Chloromethane              | 2.299  | 50  | 3052   | 0.284     | ug/l # | 81 |
| 13) Acrolein                  | 4.046  | 56  | 834    | 0.545     | ug/l # | 35 |
| 16) Acetone                   | 4.293  | 43  | 61399  | 11.859    | ug/l   | 93 |
| 18) Methyl Acetate            | 4.857  | 43  | 3437   | Below Cal |        | 93 |
| 25) 2-Butanone                | 7.351  | 43  | 7253   | 1.053     | ug/l # | 88 |
| 31) Cyclohexane               | 8.081  | 56  | 16036  | 0.986     | ug/l # | 1  |
| 36) 1,1-Dichloropropene       | 8.081  | 75  | 63638  | 5.041     | ug/l # | 49 |
| 38) Carbon Tetrachloride      | 8.081  | 117 | 79051  | 6.356     | ug/l # | 16 |
| 43) Isopropyl Acetate         | 8.628  | 43  | 6538   | 0.306     | ug/l # | 55 |
| 49) 1,4-Dioxane               | 9.581  | 88  | 55     | 0.307     | ug/l # | 1  |
| 52) Toluene                   | 10.504 | 92  | 111196 | 4.739     | ug/l   | 98 |
| 68) m/p-Xylenes               | 11.945 | 106 | 8321   | 0.496     | ug/l   | 89 |
| 76) 1,2,3-Trichloropropane    | 12.727 | 75  | 256159 | 28.680    | ug/l # | 1  |
| 81) trans-1,4-Dichloro-2-b... | 12.727 | 75  | 256159 | 92.935    | ug/l # | 5  |
| 93) 1,2,4-Trichlorobenzene    | 15.257 | 180 | 72     | 2.009     | ug/l # | 1  |
| 95) Naphthalene               | 15.510 | 128 | 1595   | 5.074     | ug/l # | 81 |
| 96) 1,2,3-Trichlorobenzene    | 15.704 | 180 | 189    | 2.544     | ug/l # | 5  |

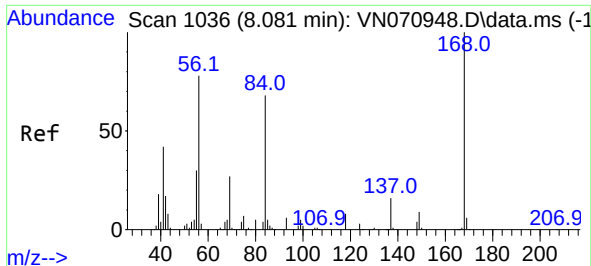
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022322\  
Data File : VN071044.D  
Acq On : 23 Feb 2022 19:45  
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Sample : N1642-08 50X  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
31409

Quant Time: Feb 24 00:42:08 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021522W.M  
Quant Title : SW846 8260  
QLast Update : Mon Feb 21 07:57:15 2022  
Response via : Initial Calibration

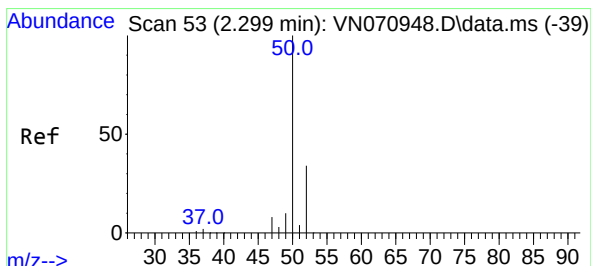
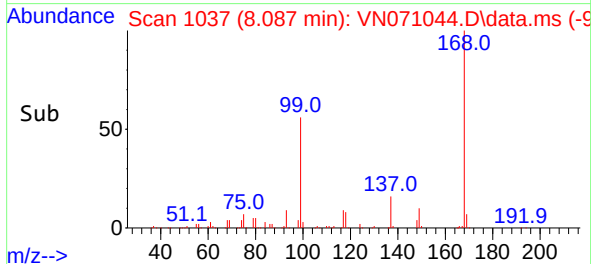
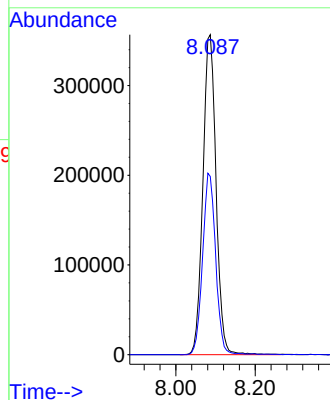
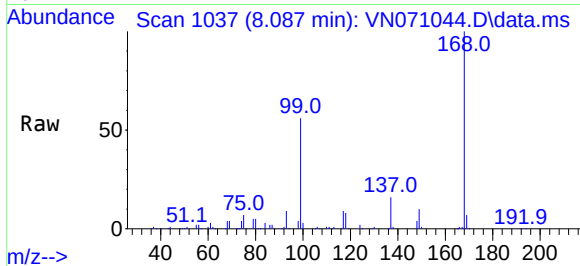




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.087 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VN071044.D  
Acq: 23 Feb 2022 19:45

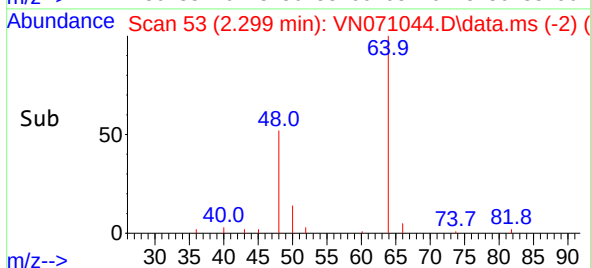
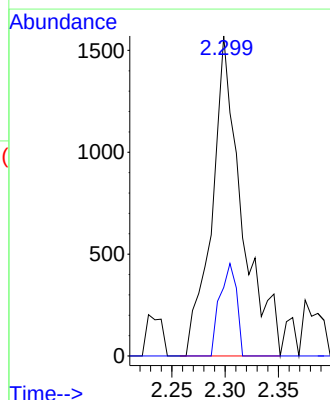
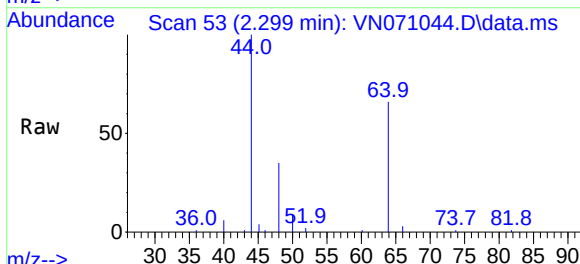
Instrument :  
MSVOA\_N  
ClientSampleId :  
31409

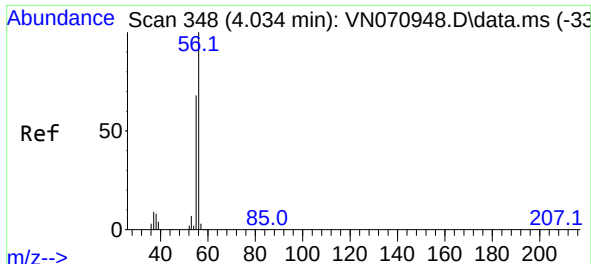
Tgt Ion:168 Resp: 822969  
Ion Ratio Lower Upper  
168 100  
99 55.7 41.3 61.9



#3  
Chloromethane  
Concen: 0.284 ug/l  
RT: 2.299 min Scan# 53  
Delta R.T. 0.000 min  
Lab File: VN071044.D  
Acq: 23 Feb 2022 19:45

Tgt Ion: 50 Resp: 3052  
Ion Ratio Lower Upper  
50 100  
52 21.4 25.4 38.0#

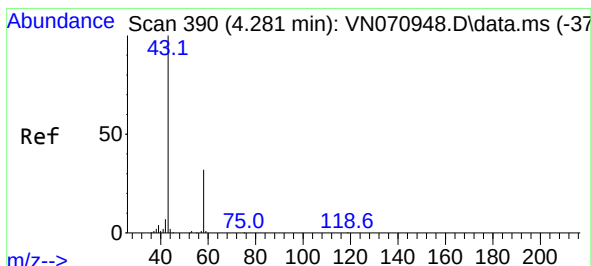
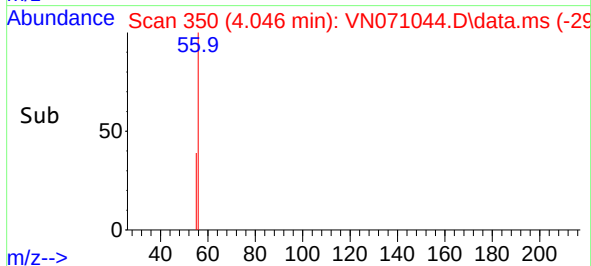
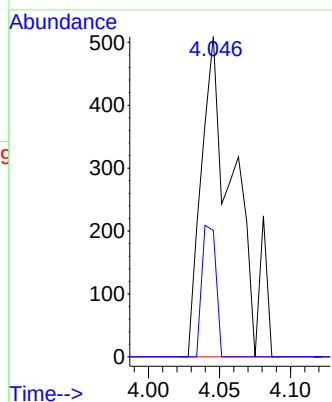
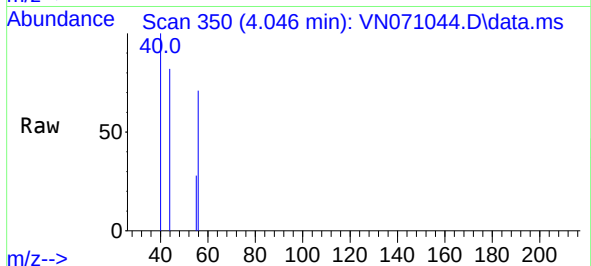




#13  
Acrolein  
Concen: 0.545 ug/l  
RT: 4.046 min Scan# 314  
Delta R.T. 0.012 min  
Lab File: VN071044.D  
Acq: 23 Feb 2022 19:45

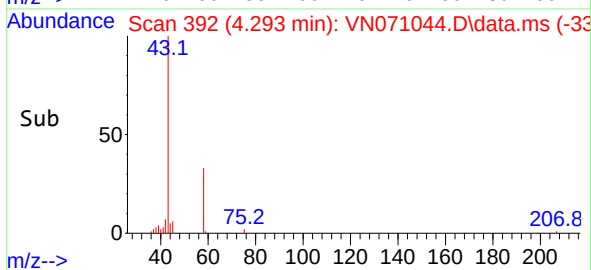
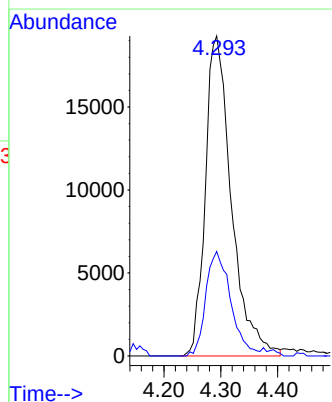
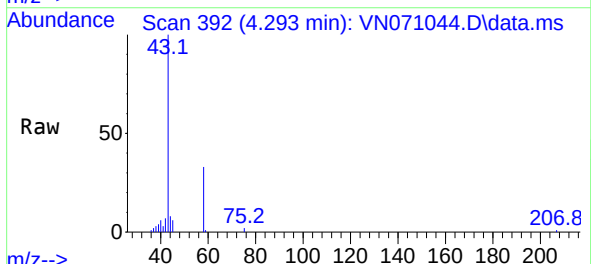
Instrument :  
MSVOA\_N  
ClientSampleId :  
31409

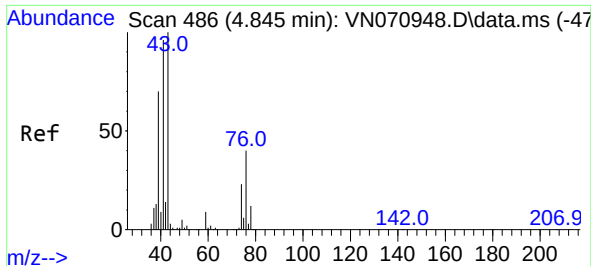
Tgt Ion: 56 Resp: 834  
Ion Ratio Lower Upper  
56 100  
55 17.4 56.6 85.0#



#16  
Acetone  
Concen: 11.859 ug/l  
RT: 4.293 min Scan# 392  
Delta R.T. 0.012 min  
Lab File: VN071044.D  
Acq: 23 Feb 2022 19:45

Tgt Ion: 43 Resp: 61399  
Ion Ratio Lower Upper  
43 100  
58 32.6 23.1 34.7

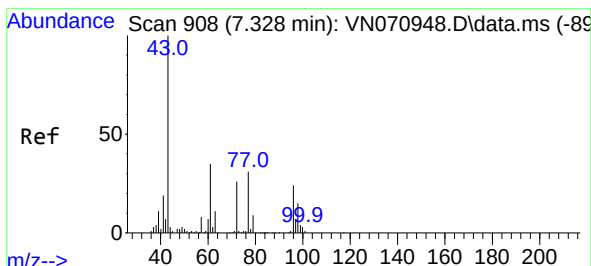
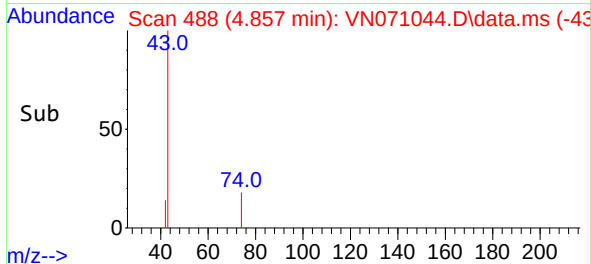
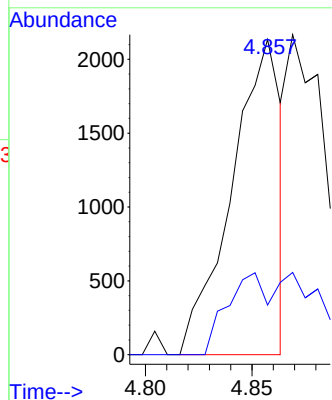
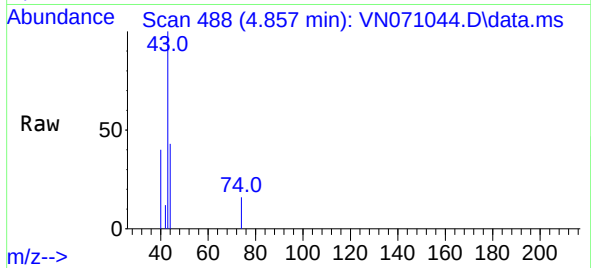




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.857 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: VN071044.D  
Acq: 23 Feb 2022 19:45

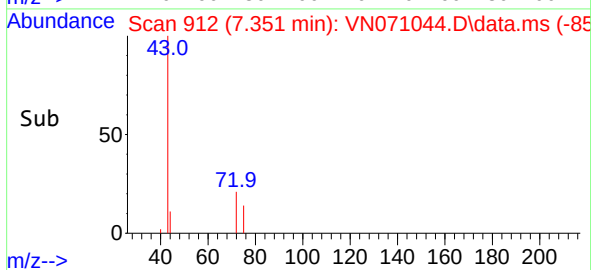
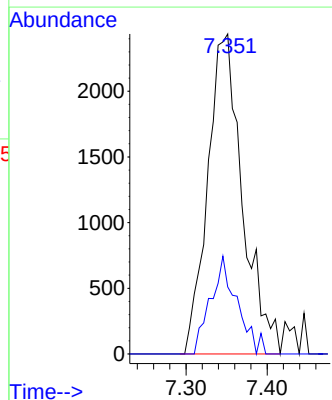
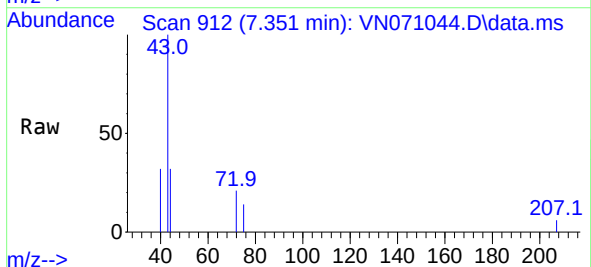
Instrument :  
MSVOA\_N  
ClientSampleId :  
31409

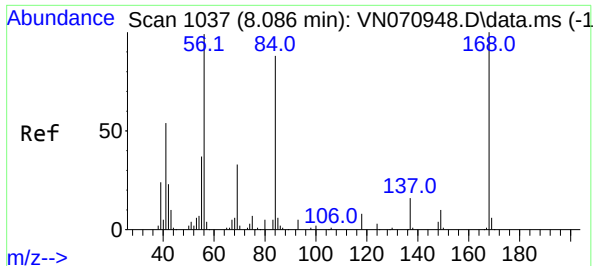
Tgt Ion: 43 Resp: 3437  
Ion Ratio Lower Upper  
43 100  
74 20.8 19.4 29.2



#25  
2-Butanone  
Concen: 1.053 ug/l  
RT: 7.351 min Scan# 912  
Delta R.T. 0.024 min  
Lab File: VN071044.D  
Acq: 23 Feb 2022 19:45

Tgt Ion: 43 Resp: 7253  
Ion Ratio Lower Upper  
43 100  
72 20.9 21.7 32.5#

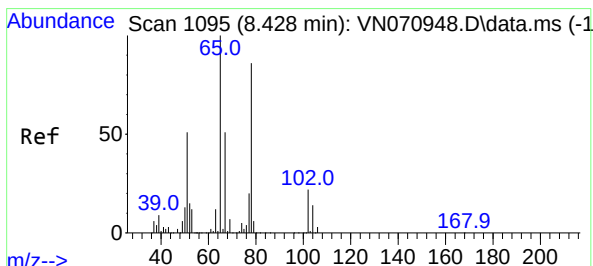
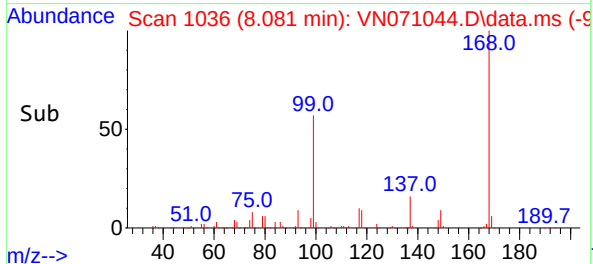
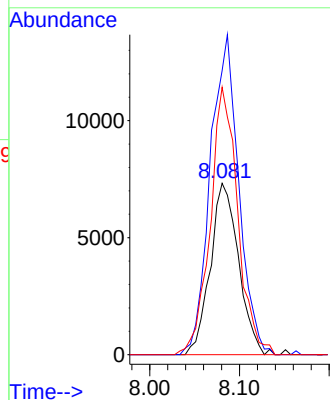
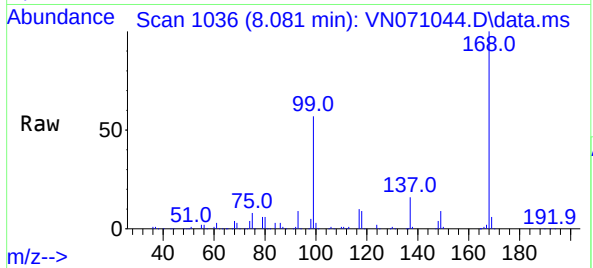




#31  
Cyclohexane  
Concen: 0.986 ug/l  
RT: 8.081 min Scan# 1036  
Delta R.T. -0.006 min  
Lab File: VN071044.D  
Acq: 23 Feb 2022 19:45

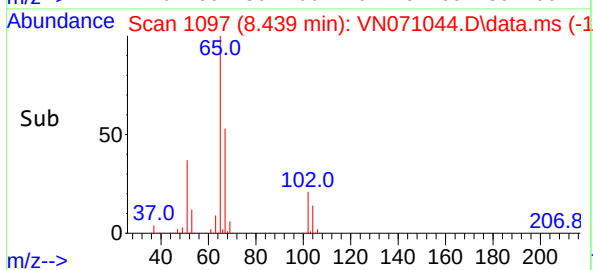
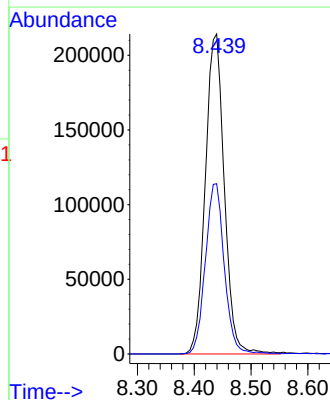
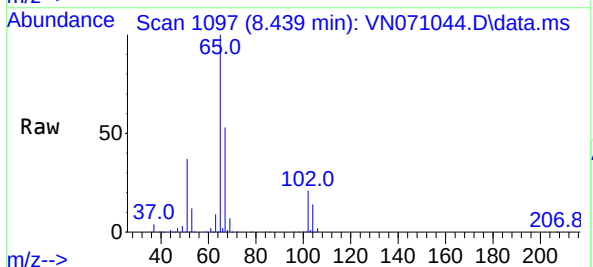
Instrument :  
MSVOA\_N  
ClientSampleId :  
31409

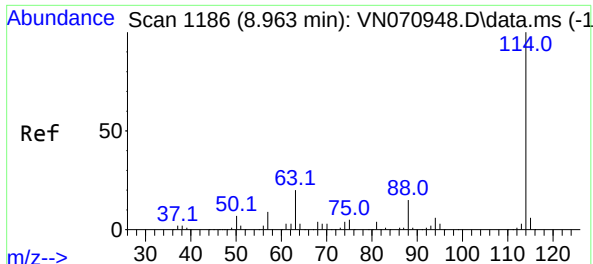
Tgt Ion: 56 Resp: 16036  
Ion Ratio Lower Upper  
56 100  
69 165.8 27.1 40.7#  
84 156.0 73.4 110.0#



#33  
1,2-Dichloroethane-d4  
Concen: 52.655 ug/l  
RT: 8.439 min Scan# 1097  
Delta R.T. 0.012 min  
Lab File: VN071044.D  
Acq: 23 Feb 2022 19:45

Tgt Ion: 65 Resp: 495009  
Ion Ratio Lower Upper  
65 100  
67 53.2 0.0 103.0

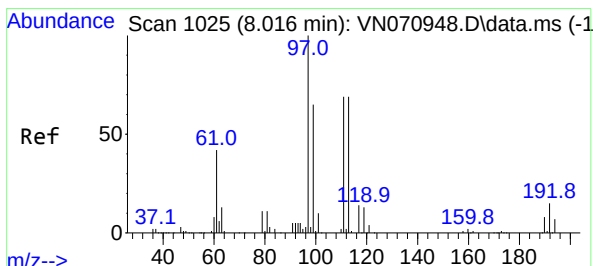
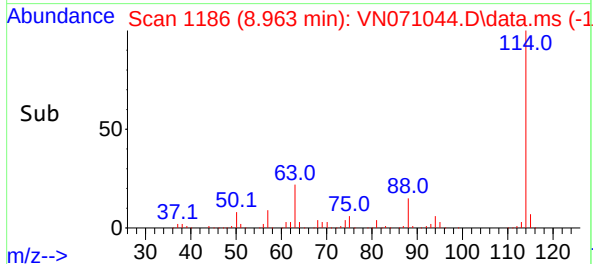
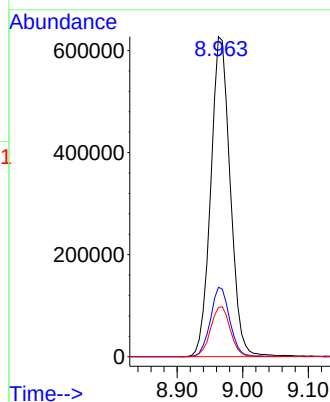
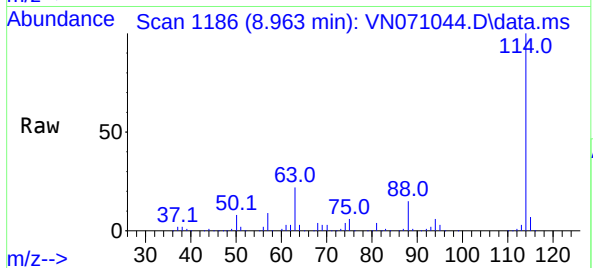




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.963 min Scan# 1186  
Delta R.T. 0.000 min  
Lab File: VN071044.D  
Acq: 23 Feb 2022 19:45

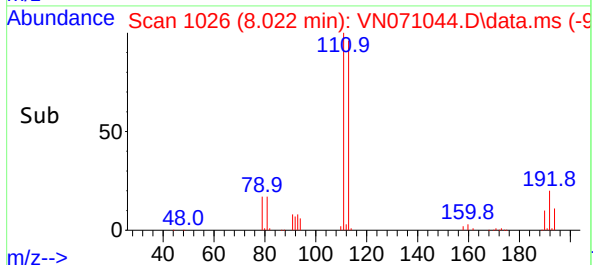
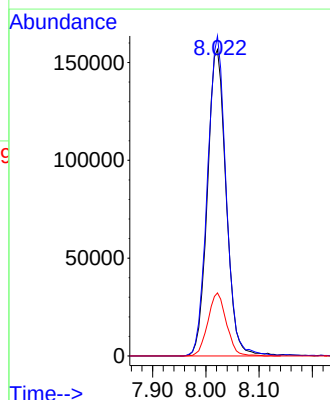
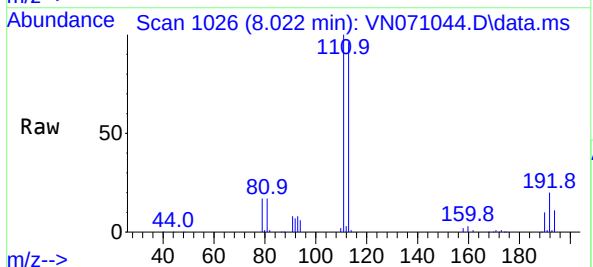
Instrument :  
MSVOA\_N  
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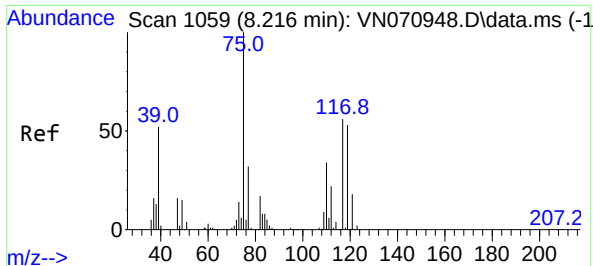
Tgt Ion:114 Resp: 1295363  
Ion Ratio Lower Upper  
114 100  
63 21.7 0.0 37.8  
88 15.4 0.0 27.4



#35  
Dibromofluoromethane  
Concen: 49.532 ug/l  
RT: 8.022 min Scan# 1026  
Delta R.T. 0.006 min  
Lab File: VN071044.D  
Acq: 23 Feb 2022 19:45

Tgt Ion:113 Resp: 381632  
Ion Ratio Lower Upper  
113 100  
111 104.0 82.2 123.2  
192 20.4 16.9 25.3





#36

1,1-Dichloropropene

Concen: 5.041 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.135 min

Lab File: VN071044.D

Acq: 23 Feb 2022 19:45

Instrument :

MSVOA\_N

ClientSampleId :

31409

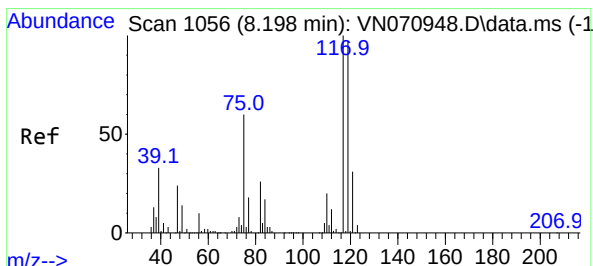
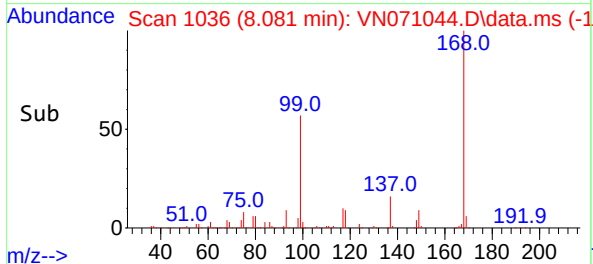
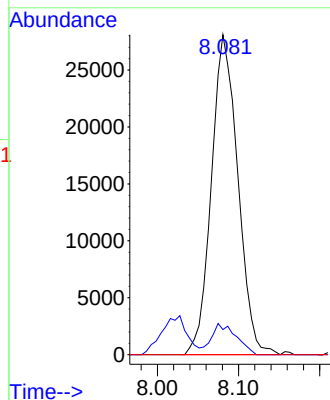
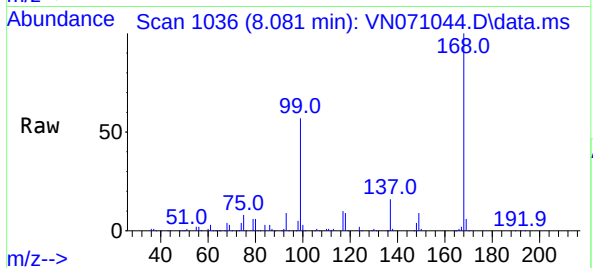
Tgt Ion: 75 Resp: 63638

Ion Ratio Lower Upper

75 100

110 9.2 18.4 55.2#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 6.356 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.118 min

Lab File: VN071044.D

Acq: 23 Feb 2022 19:45

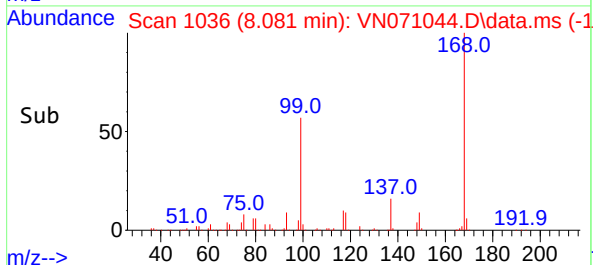
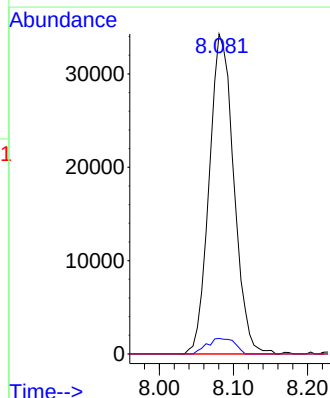
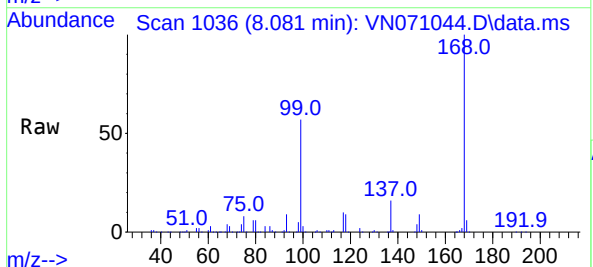
Tgt Ion: 117 Resp: 79051

Ion Ratio Lower Upper

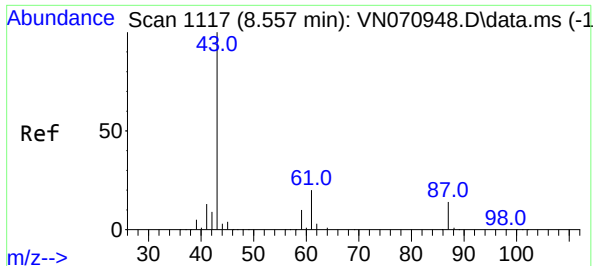
117 100

119 4.9 76.1 114.1#

121 0.0 24.2 36.2#







#43

Isopropyl Acetate

Concen: 0.306 ug/l

RT: 8.628 min Scan# 1117

Delta R.T. 0.071 min

Lab File: VN071044.D

Acq: 23 Feb 2022 19:45

Instrument :

MSVOA\_N

ClientSampleId :

31409

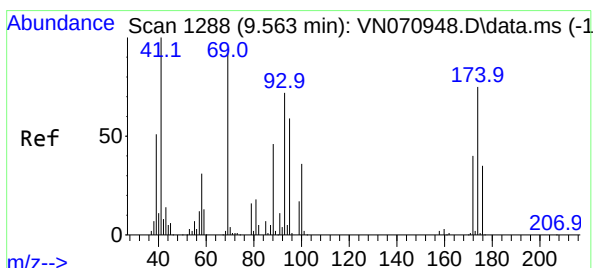
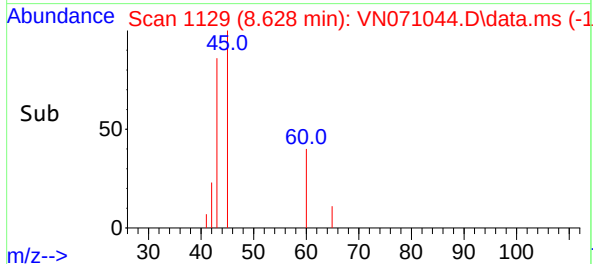
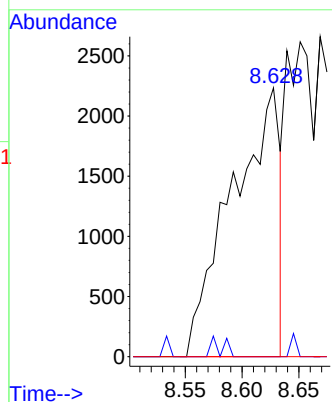
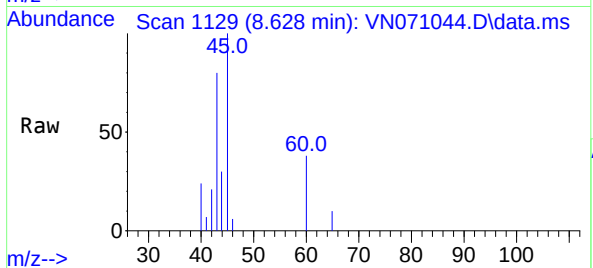
Tgt Ion: 43 Resp: 6538

Ion Ratio Lower Upper

43 100

61 0.0 20.4 30.6#

87 0.0 11.2 16.8#



#49

1,4-Dioxane

Concen: 0.307 ug/l

RT: 9.581 min Scan# 1291

Delta R.T. 0.018 min

Lab File: VN071044.D

Acq: 23 Feb 2022 19:45

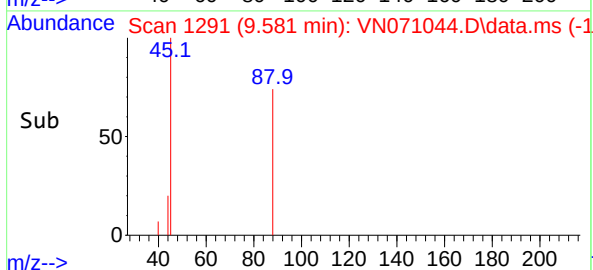
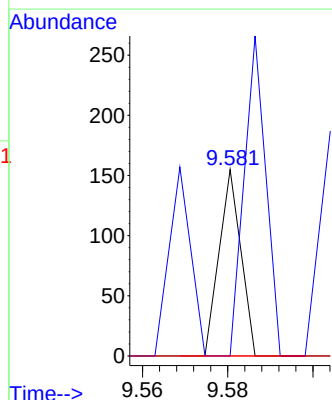
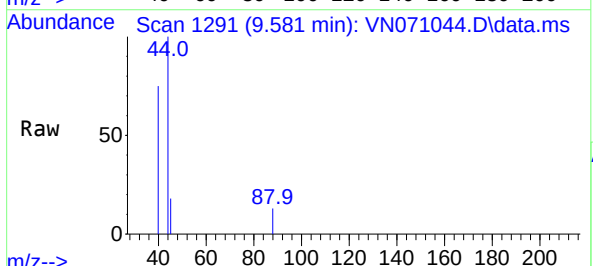
Tgt Ion: 88 Resp: 55

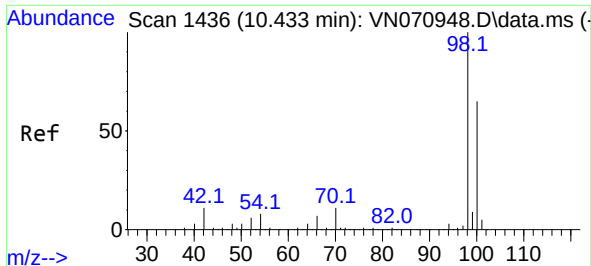
Ion Ratio Lower Upper

88 100

43 170.9 23.4 35.2#

58 0.0 50.6 75.8#

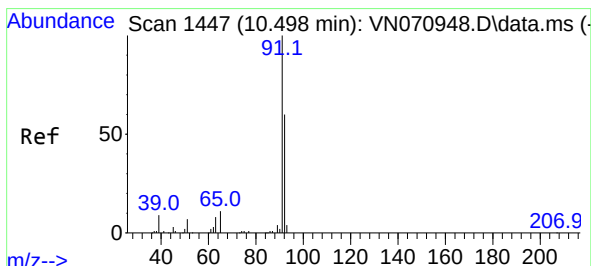
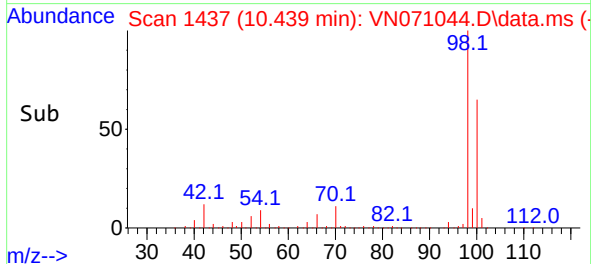
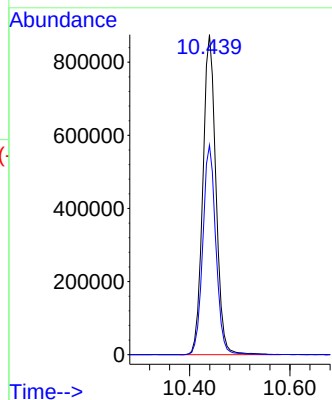
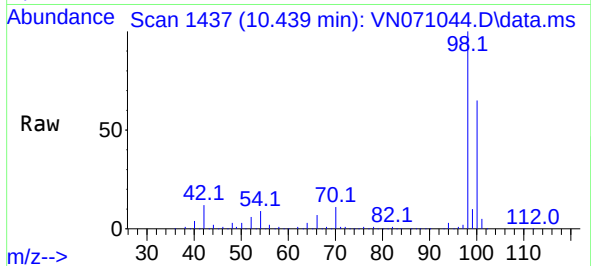




#50  
Toluene-d8  
Concen: 51.142 ug/l  
RT: 10.439 min Scan# 1436  
Delta R.T. 0.006 min  
Lab File: VN071044.D  
Acq: 23 Feb 2022 19:45

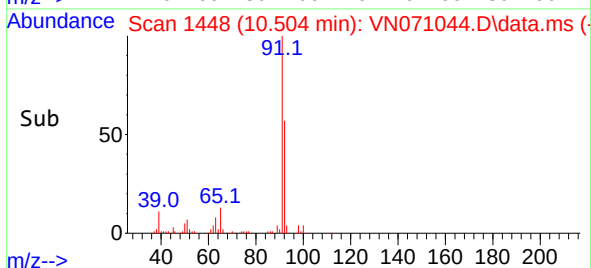
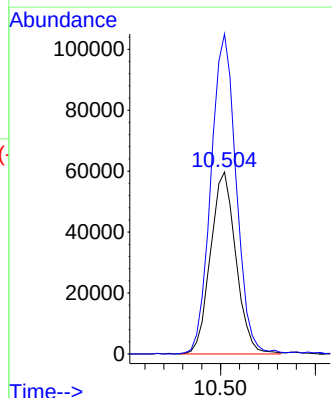
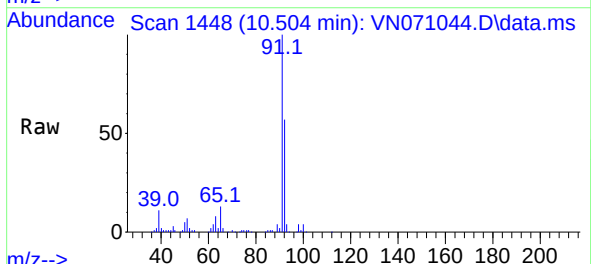
Instrument :  
MSVOA\_N  
ClientSampleId :  
31409

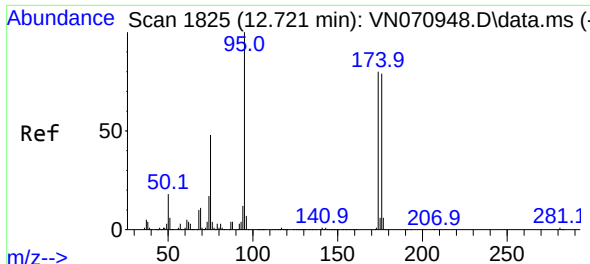
Tgt Ion: 98 Resp: 1582436  
Ion Ratio Lower Upper  
98 100  
100 65.3 50.4 75.6



#52  
Toluene  
Concen: 4.739 ug/l  
RT: 10.504 min Scan# 1448  
Delta R.T. 0.006 min  
Lab File: VN071044.D  
Acq: 23 Feb 2022 19:45

Tgt Ion: 92 Resp: 111196  
Ion Ratio Lower Upper  
92 100  
91 174.9 142.0 213.0

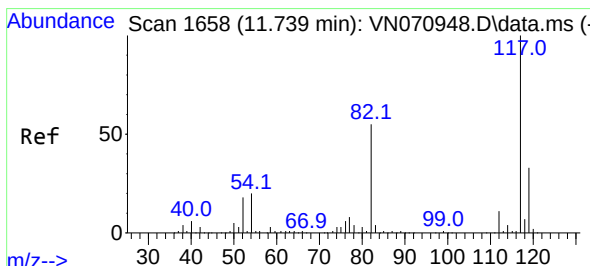
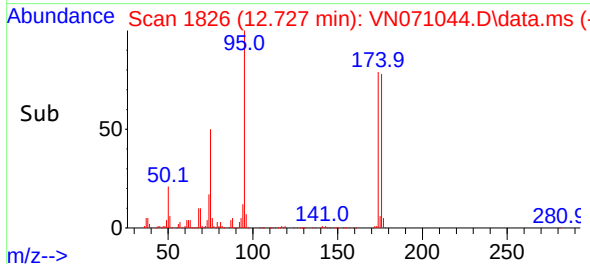
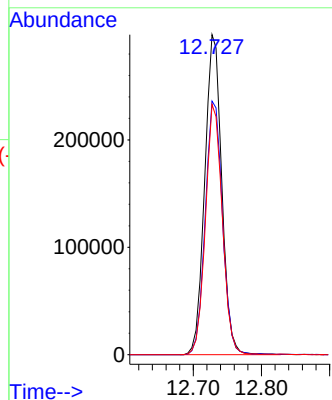
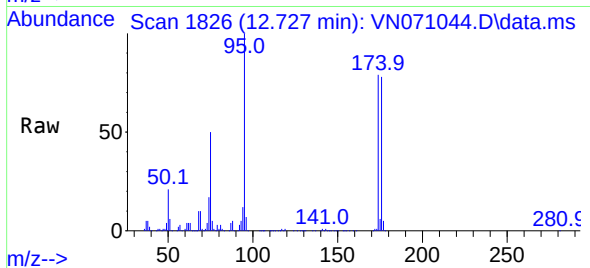




#62  
4-Bromofluorobenzene  
Concen: 46.717 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.006 min  
Lab File: VN071044.D  
Acq: 23 Feb 2022 19:45

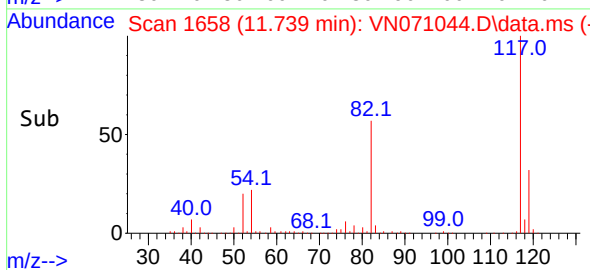
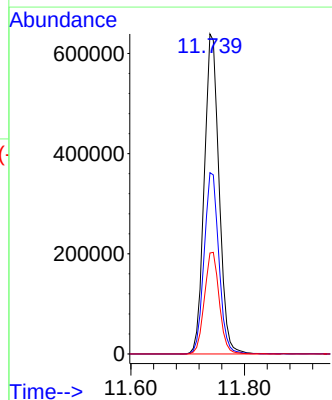
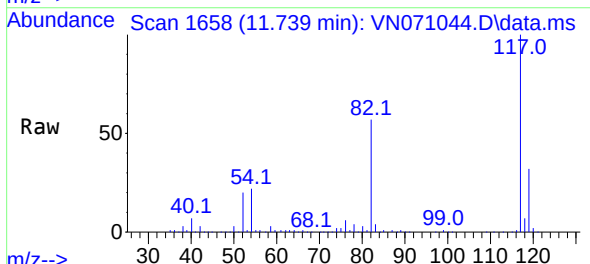
Instrument :  
MSVOA\_N  
ClientSampleId :  
31409

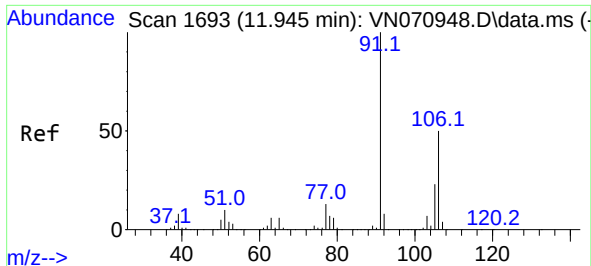
Tgt Ion: 95 Resp: 516688  
Ion Ratio Lower Upper  
95 100  
174 80.5 0.0 187.2  
176 77.6 0.0 181.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.739 min Scan# 1658  
Delta R.T. 0.000 min  
Lab File: VN071044.D  
Acq: 23 Feb 2022 19:45

Tgt Ion: 117 Resp: 1150754  
Ion Ratio Lower Upper  
117 100  
82 56.7 42.4 63.6  
119 31.5 25.4 38.2

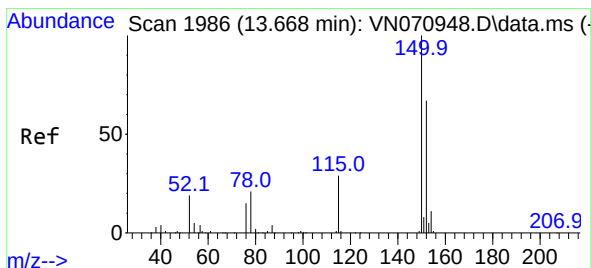
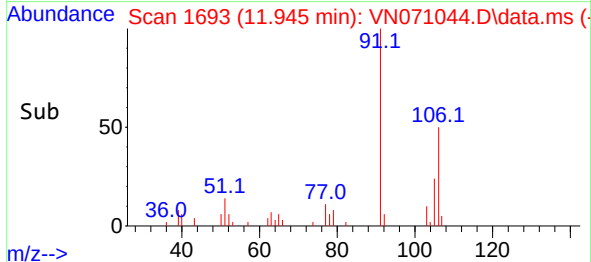
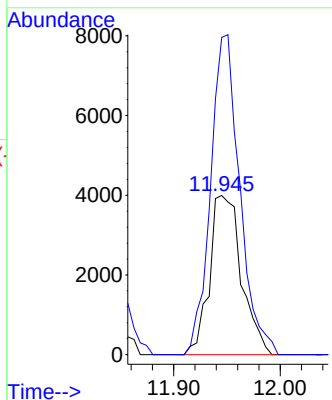
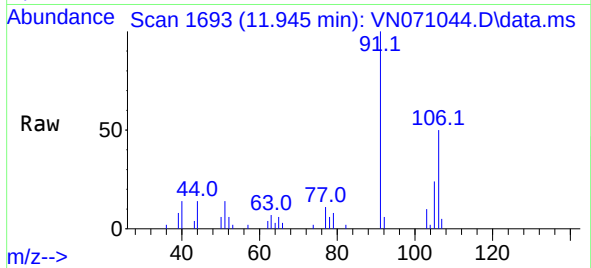




#68  
m/p-Xylenes  
Concen: 0.496 ug/l  
RT: 11.945 min Scan# 110  
Delta R.T. 0.000 min  
Lab File: VN071044.D  
Acq: 23 Feb 2022 19:45

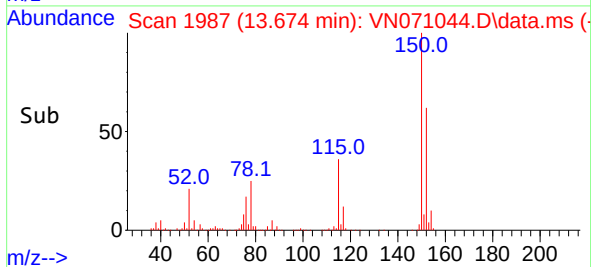
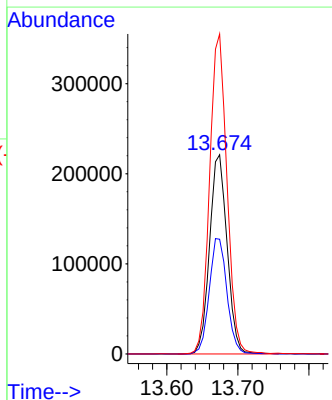
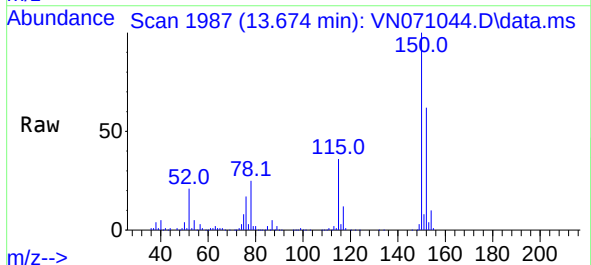
Instrument :  
MSVOA\_N  
ClientSampleId :  
31409

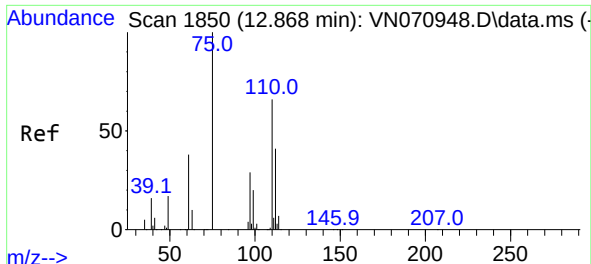
Tgt Ion:106 Resp: 8321  
Ion Ratio Lower Upper  
106 100  
91 184.1 160.6 240.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.674 min Scan# 1987  
Delta R.T. 0.006 min  
Lab File: VN071044.D  
Acq: 23 Feb 2022 19:45

Tgt Ion:152 Resp: 379345  
Ion Ratio Lower Upper  
152 100  
115 58.5 27.5 82.5  
150 158.4 0.0 344.4

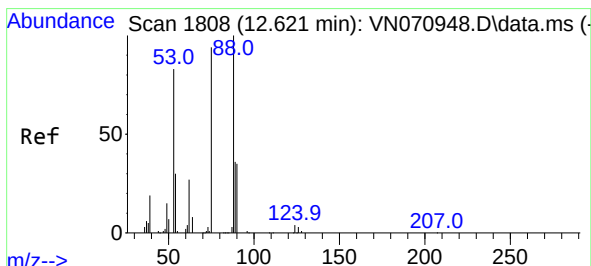
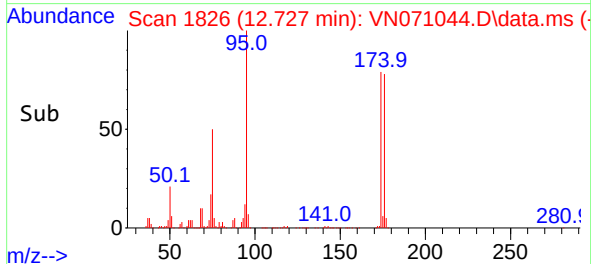
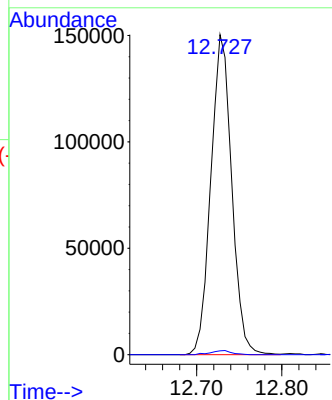
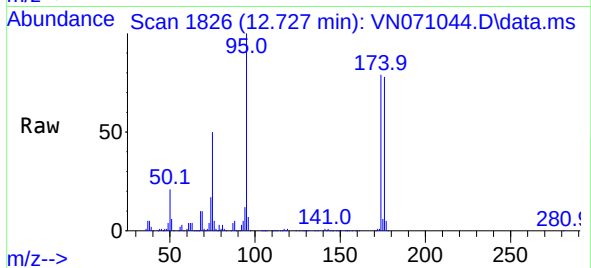




#76  
1,2,3-Trichloropropane  
Concen: 28.680 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. -0.141 min  
Lab File: VN071044.D  
Acq: 23 Feb 2022 19:45

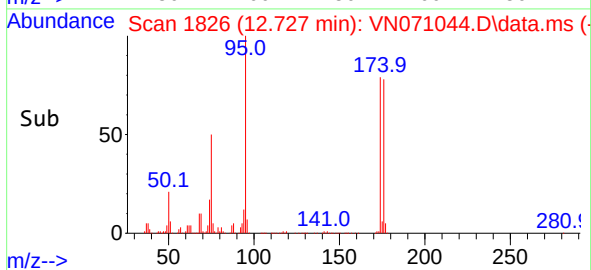
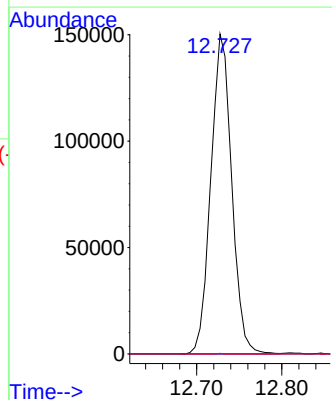
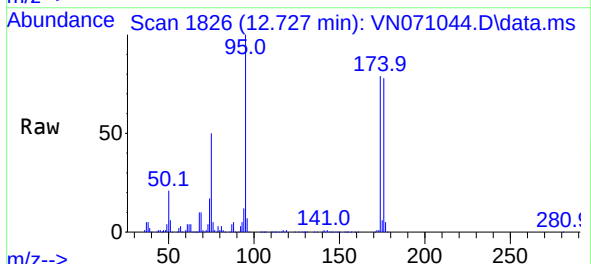
Instrument :  
MSVOA\_N  
ClientSampleId :  
31409

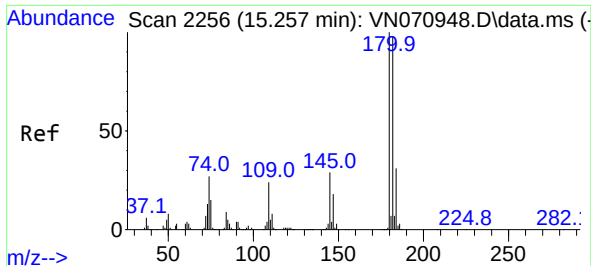
Tgt Ion: 75 Resp: 256159  
Ion Ratio Lower Upper  
75 100  
77 1.3 82.6 247.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 92.935 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.106 min  
Lab File: VN071044.D  
Acq: 23 Feb 2022 19:45

Tgt Ion: 75 Resp: 256159  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 38.2 57.4#

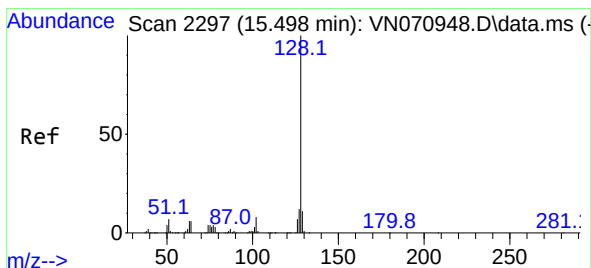
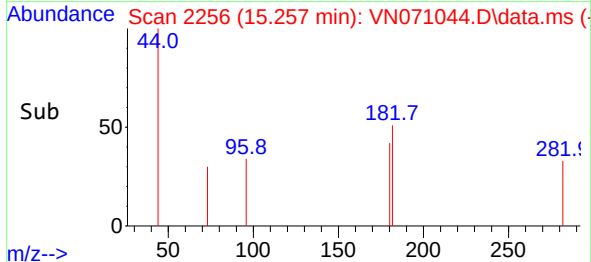
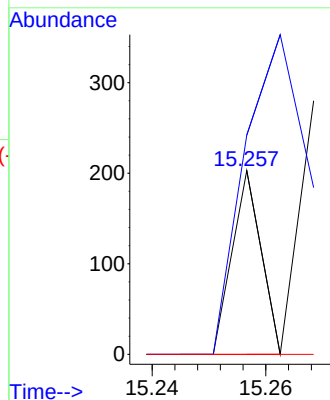
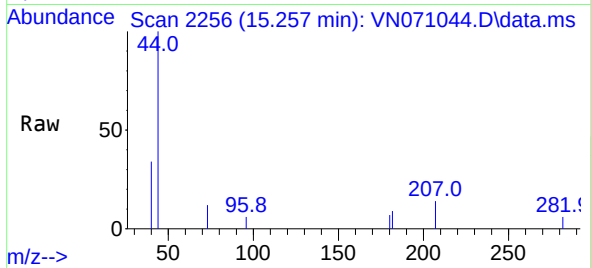




#93  
1,2,4-Trichlorobenzene  
Concen: 2.009 ug/l  
RT: 15.257 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN071044.D  
Acq: 23 Feb 2022 19:45

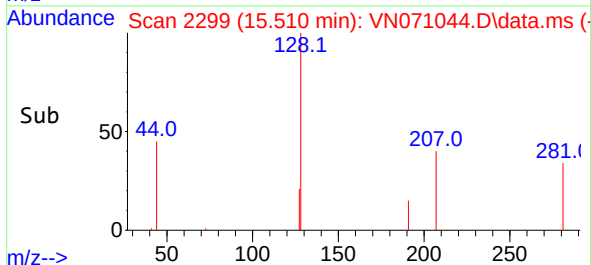
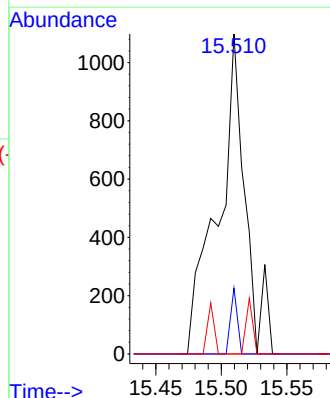
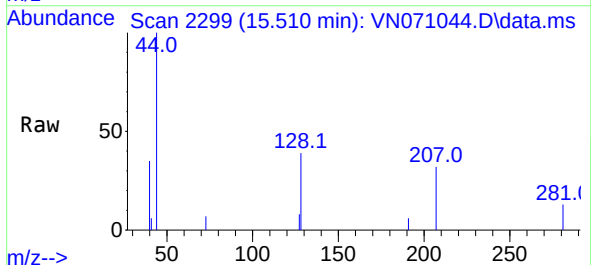
Instrument :  
MSVOA\_N  
ClientSampleId :  
31409

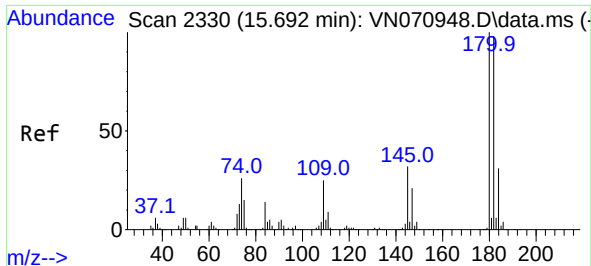
Tgt Ion:180 Resp: 72  
Ion Ratio Lower Upper  
180 100  
182 481.9 48.3 144.9#  
145 0.0 14.5 43.5#



#95  
Naphthalene  
Concen: 5.074 ug/l  
RT: 15.510 min Scan# 2299  
Delta R.T. 0.012 min  
Lab File: VN071044.D  
Acq: 23 Feb 2022 19:45

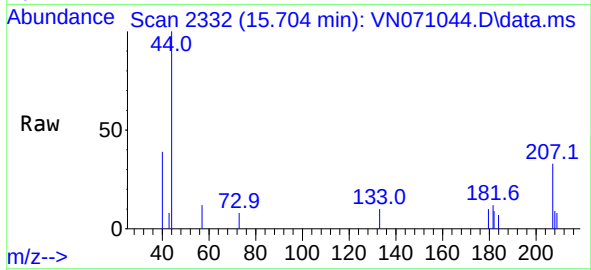
Tgt Ion:128 Resp: 1595  
Ion Ratio Lower Upper  
128 100  
127 5.0 10.5 15.7#  
129 4.2 8.7 13.1#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 2.544 ug/l  
 RT: 15.704 min Scan# 21  
 Delta R.T. 0.012 min  
 Lab File: VN071044.D  
 Acq: 23 Feb 2022 19:45

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 31409



Tgt Ion:180 Resp: 189  
 Ion Ratio Lower Upper  
 180 100  
 182 199.5 47.4 142.2#  
 145 0.0 15.0 45.1#

