

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042822\  
 Data File : VN072242.D  
 Acq On : 28 Apr 2022 16:59  
 Operator : JC\MD  
 Sample : N2617-05  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-6I

Quant Time: Apr 29 06:34:56 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042622W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 26 18:50:11 2022  
 Response via : Initial Calibration

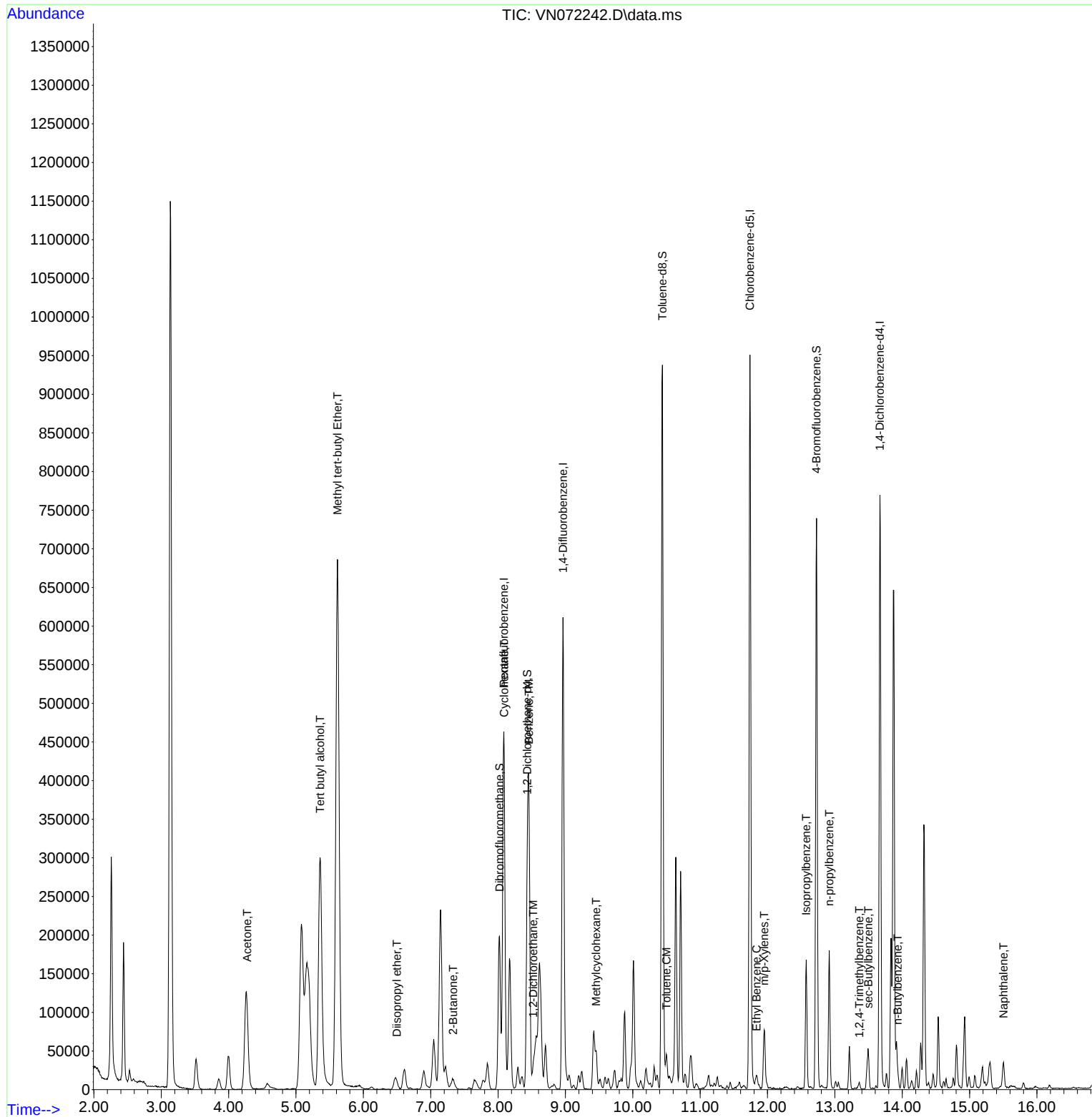
| Compound                    | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------------|----------|
| -----                       |        |       |          |          |            |          |
| Internal Standards          |        |       |          |          |            |          |
| 1) Pentafluorobenzene       | 8.086  | 168   | 261253   | 50.000   | ug/l       | # 0.00   |
| 34) 1,4-Difluorobenzene     | 8.963  | 114   | 482448   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5        | 11.739 | 117   | 531438   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.668 | 152   | 200216   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4   | 8.434  | 65    | 202433   | 50.472   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 61 - 141 | Recovery | = 100.940% |          |
| 35) Dibromofluoromethane    | 8.022  | 113   | 148581   | 48.117   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 69 - 133 | Recovery | = 96.240%  |          |
| 50) Toluene-d8              | 10.439 | 98    | 629566   | 51.886   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 65 - 126 | Recovery | = 103.780% |          |
| 62) 4-Bromofluorobenzene    | 12.727 | 95    | 261008   | 64.808   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 135 | Recovery | = 129.620% |          |
| Target Compounds            |        |       |          |          |            |          |
|                             |        |       |          |          |            | Qvalue   |
| 11) Tert butyl alcohol      | 5.357  | 59    | 611639   | 927.966  | ug/l       | 100      |
| 16) Acetone                 | 4.275  | 43    | 99034    | 57.271   | ug/l       | # 60     |
| 19) Methyl tert-butyl Ether | 5.616  | 73    | 720587   | 73.674   | ug/l       | # 22     |
| 22) Diisopropyl ether       | 6.498  | 45    | 9323     | 0.874    | ug/l       | # 84     |
| 25) 2-Butanone              | 7.334  | 43    | 9408     | 3.416    | ug/l       | # 71     |
| 31) Cyclohexane             | 8.092  | 56    | 69990    | 13.060   | ug/l       | 97       |
| 39) Methylcyclohexane       | 9.457  | 83    | 20386    | 4.055    | ug/l       | # 88     |
| 40) Benzene                 | 8.457  | 78    | 322120   | 23.105   | ug/l       | 100      |
| 42) 1,2-Dichloroethane      | 8.522  | 62    | 10074    | 1.887    | ug/l       | 98       |
| 52) Toluene                 | 10.498 | 92    | 15684    | 1.882    | ug/l       | 97       |
| 67) Ethyl Benzene           | 11.839 | 91    | 4510     | 0.241    | ug/l       | # 84     |
| 68) m/p-Xylenes             | 11.951 | 106   | 23978    | 3.448    | ug/l       | 92       |
| 73) Isopropylbenzene        | 12.574 | 105   | 105995   | 5.994    | ug/l       | 96       |
| 78) n-propylbenzene         | 12.916 | 91    | 136704   | 7.017    | ug/l       | 96       |
| 84) 1,2,4-Trimethylbenzene  | 13.363 | 105   | 4650     | 0.326    | ug/l       | 98       |
| 85) sec-Butylbenzene        | 13.498 | 105   | 29916    | 1.775    | ug/l       | 80       |
| 89) n-Butylbenzene          | 13.933 | 91    | 12500    | 1.242    | ug/l       | # 69     |
| 95) Naphthalene             | 15.504 | 128   | 34877    | 7.373    | ug/l       | 99       |
| -----                       |        |       |          |          |            |          |

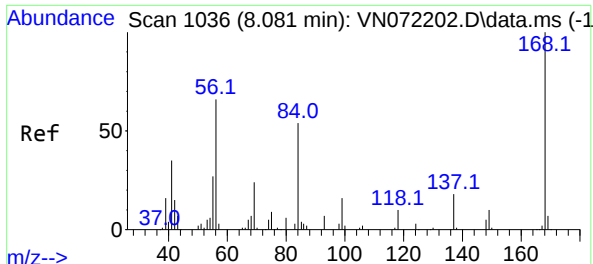
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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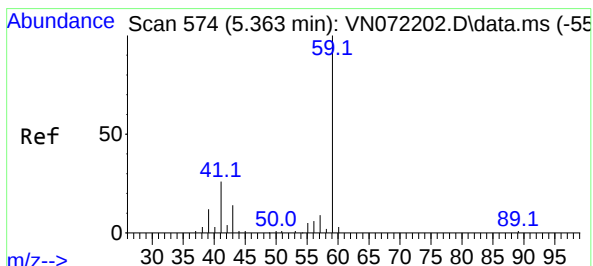
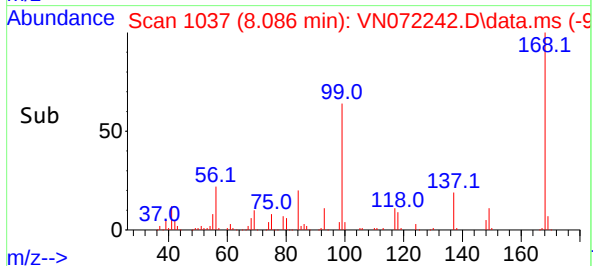
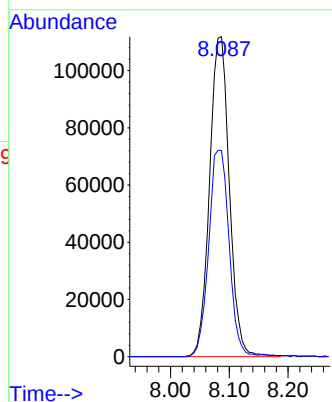
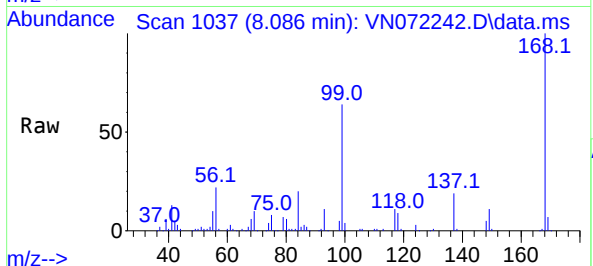




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.086 min Scan# 1036  
Delta R.T. 0.005 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

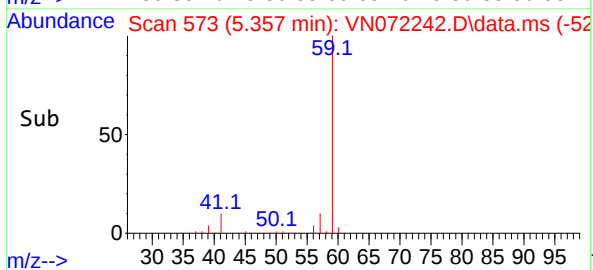
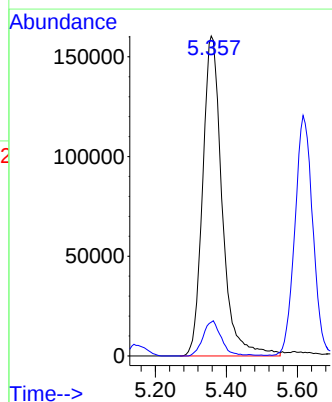
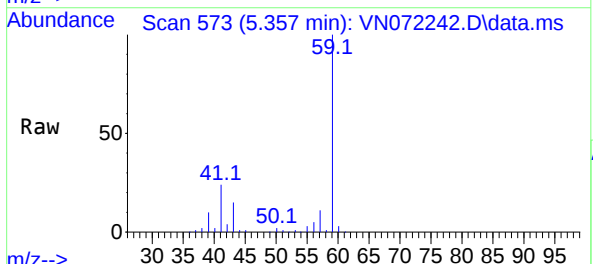
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-6I

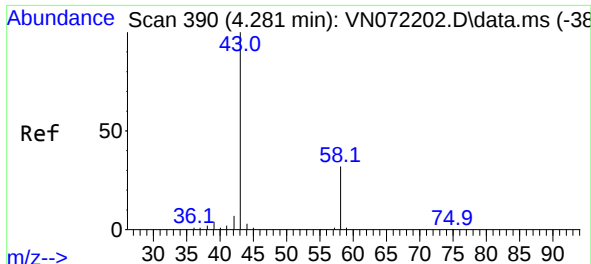
Tgt Ion:168 Resp: 261253  
Ion Ratio Lower Upper  
168 100  
99 64.5 42.3 63.5#



#11  
Tert butyl alcohol  
Concen: 927.966 ug/l  
RT: 5.357 min Scan# 573  
Delta R.T. -0.006 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

Tgt Ion: 59 Resp: 611639  
Ion Ratio Lower Upper  
59 100  
57 10.3 8.3 12.5

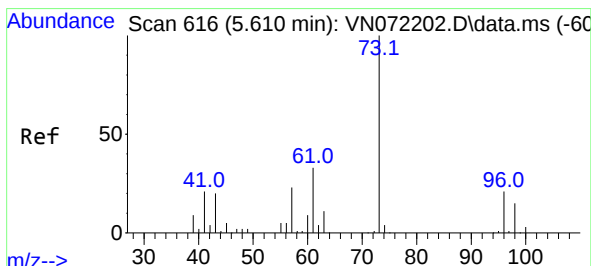
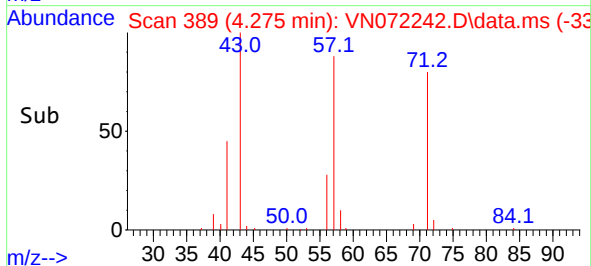
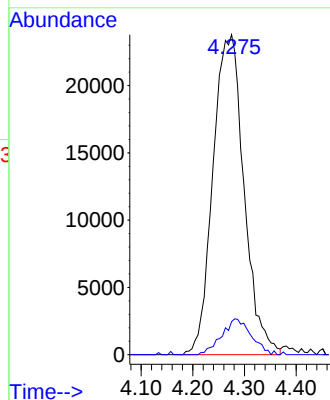
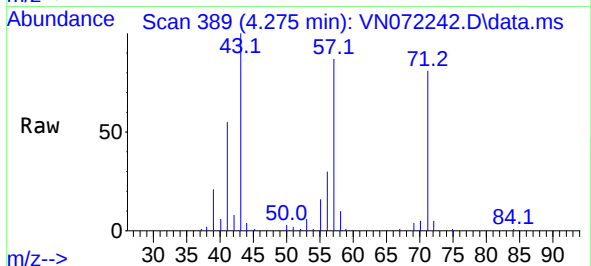




#16  
Acetone  
Concen: 57.271 ug/l  
RT: 4.275 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

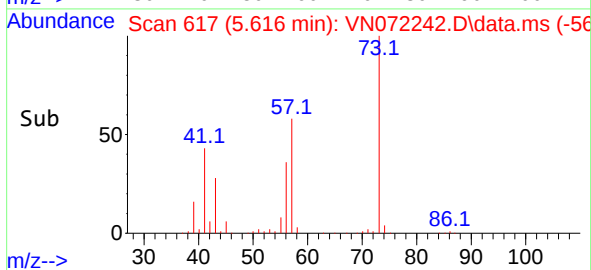
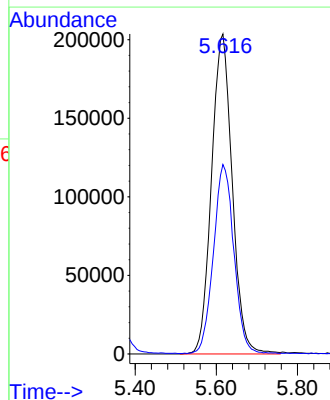
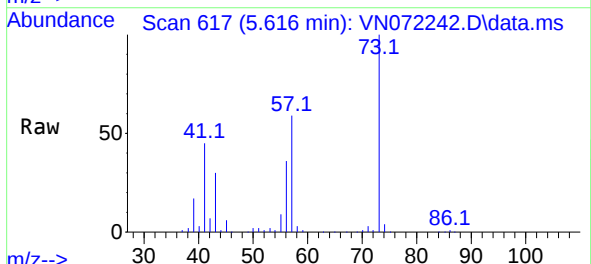
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-6I

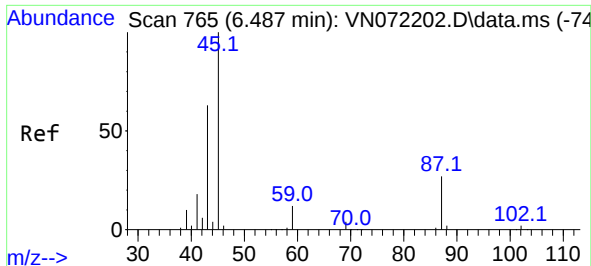
Tgt Ion: 43 Resp: 99034  
Ion Ratio Lower Upper  
43 100  
58 10.3 26.0 39.0#



#19  
Methyl tert-butyl Ether  
Concen: 73.674 ug/l  
RT: 5.616 min Scan# 617  
Delta R.T. 0.006 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

Tgt Ion: 73 Resp: 720587  
Ion Ratio Lower Upper  
73 100  
57 59.0 17.6 26.4#

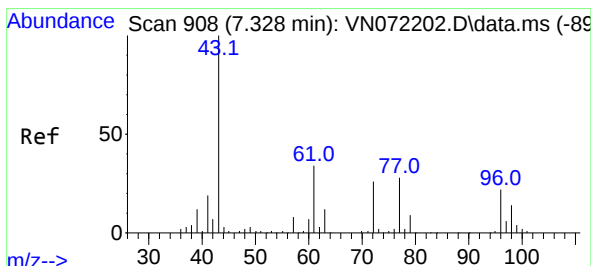
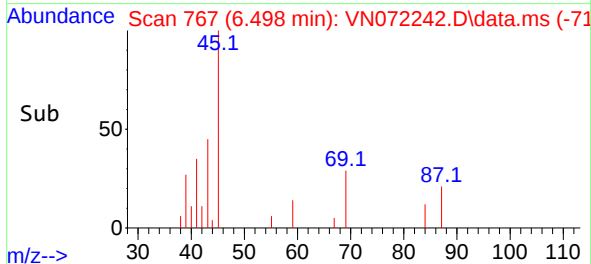
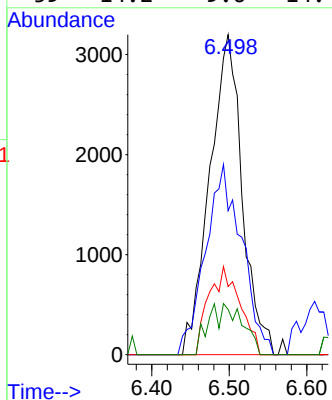
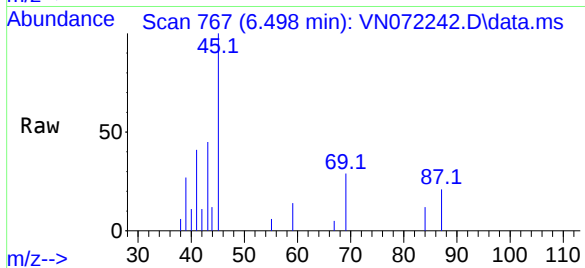




#22  
Diisopropyl ether  
Concen: 0.874 ug/l  
RT: 6.498 min Scan# 709  
Delta R.T. 0.011 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

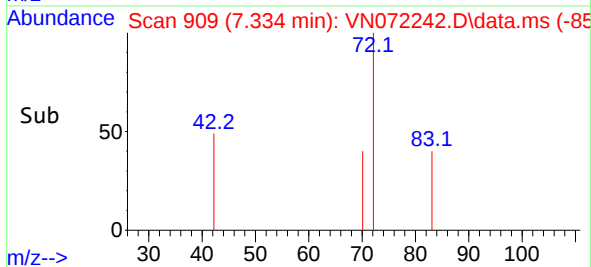
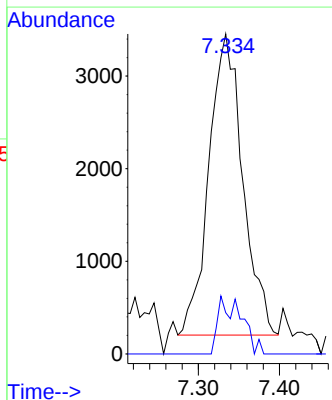
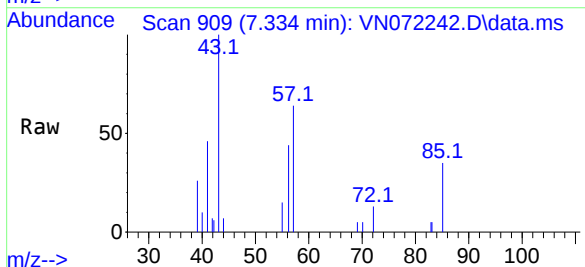
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-6I

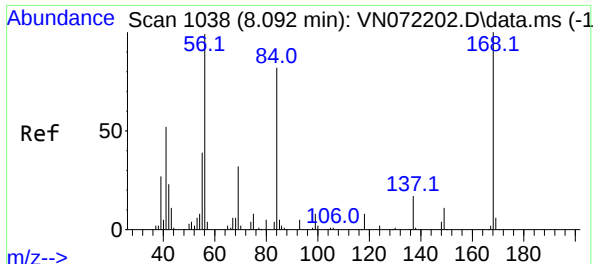
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 45    | Resp: | 9323  |
| Ion      | Ratio | Lower | Upper |
| 45       | 100   |       |       |
| 43       | 45.0  | 46.6  | 70.0# |
| 87       | 21.3  | 24.3  | 36.5# |
| 59       | 14.2  | 9.6   | 14.4  |



#25  
2-Butanone  
Concen: 3.416 ug/l  
RT: 7.334 min Scan# 909  
Delta R.T. 0.006 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 9408  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 13.7  | 23.7  | 35.5# |





#31

Cyclohexane

Concen: 13.060 ug/l

RT: 8.092 min Scan# 1038

Delta R.T. 0.000 min

Lab File: VN072242.D

Acq: 28 Apr 2022 16:59

Instrument :

MSVOA\_N

ClientSampleId :

MW-6I

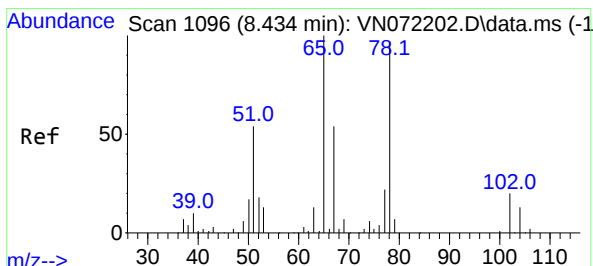
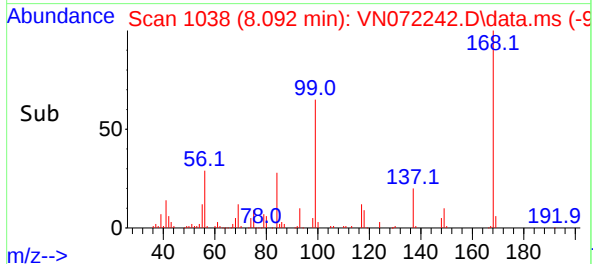
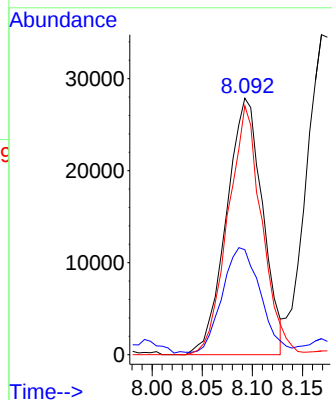
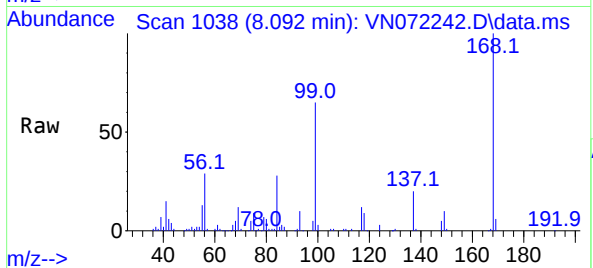
Tgt Ion: 56 Resp: 69990

Ion Ratio Lower Upper

56 100

69 39.7 27.8 41.8

84 97.0 76.9 115.3



#33

1,2-Dichloroethane-d4

Concen: 50.472 ug/l

RT: 8.434 min Scan# 1096

Delta R.T. -0.000 min

Lab File: VN072242.D

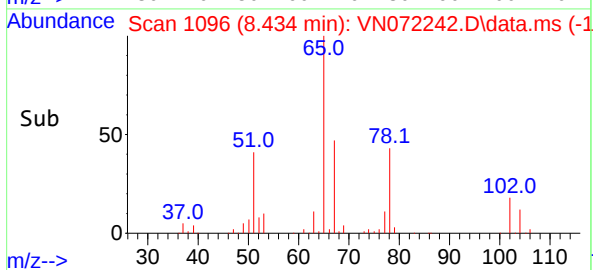
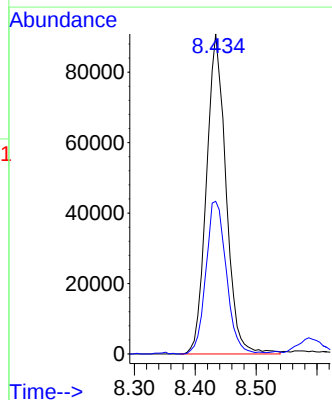
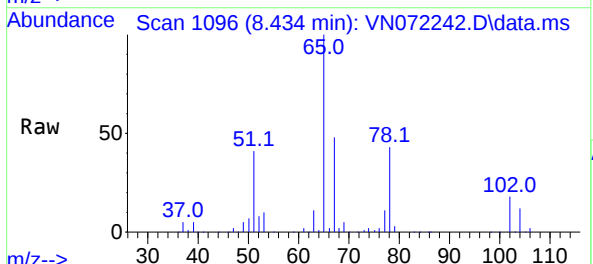
Acq: 28 Apr 2022 16:59

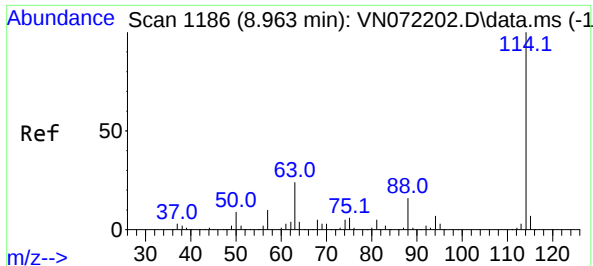
Tgt Ion: 65 Resp: 202433

Ion Ratio Lower Upper

65 100

67 50.1 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. -0.000 min

Lab File: VN072242.D

Acq: 28 Apr 2022 16:59

Instrument :

MSVOA\_N

ClientSampleId :

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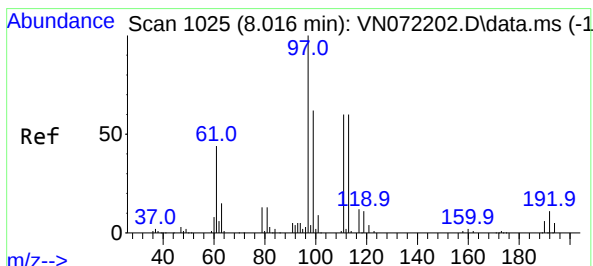
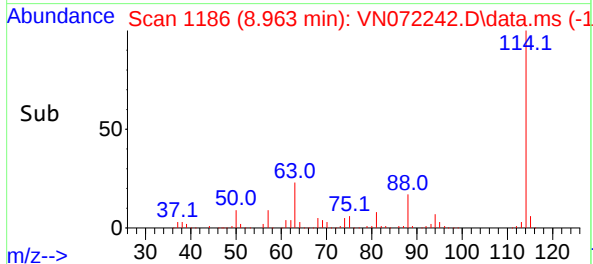
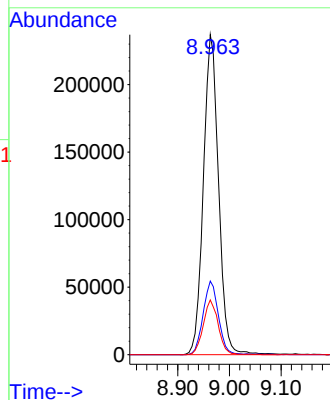
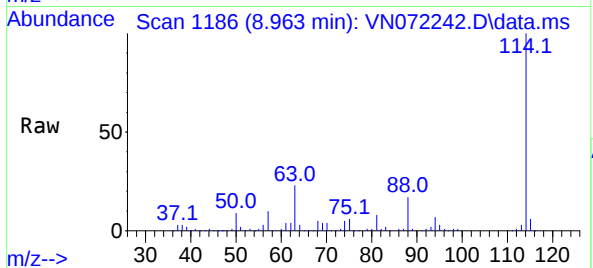
Tgt Ion:114 Resp: 482448

Ion Ratio Lower Upper

114 100

63 23.0 0.0 40.0

88 17.1 0.0 32.6



#35

Dibromofluoromethane

Concen: 48.117 ug/l

RT: 8.022 min Scan# 1026

Delta R.T. 0.006 min

Lab File: VN072242.D

Acq: 28 Apr 2022 16:59

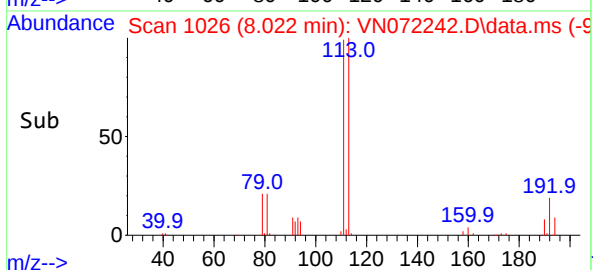
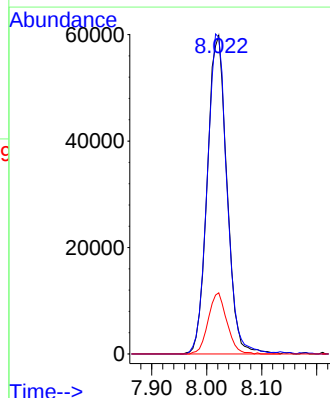
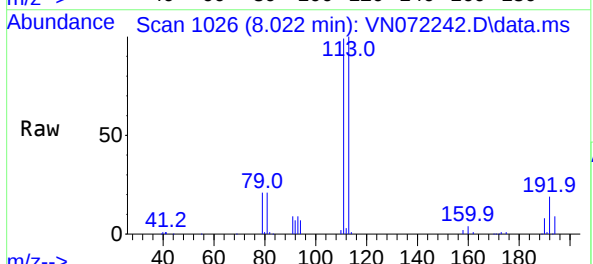
Tgt Ion:113 Resp: 148581

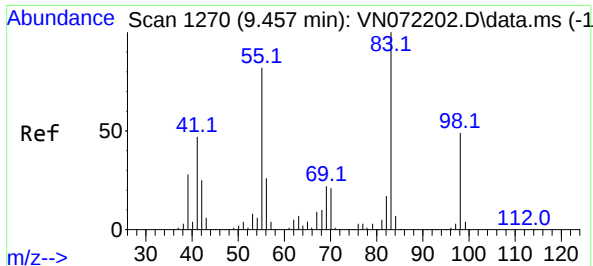
Ion Ratio Lower Upper

113 100

111 100.6 81.4 122.0

192 18.2 17.0 25.6

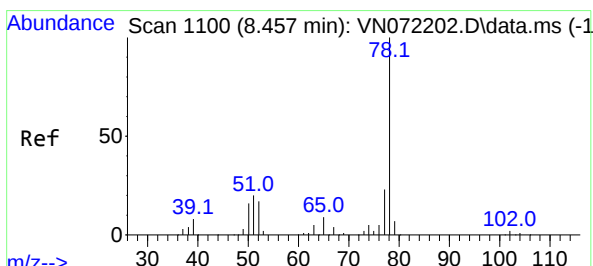
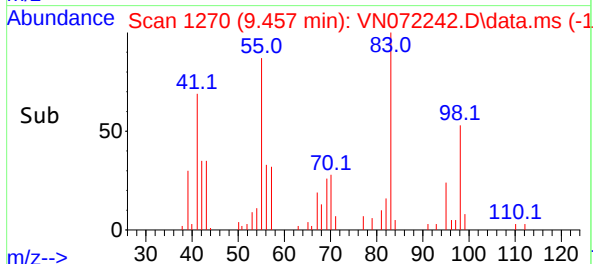
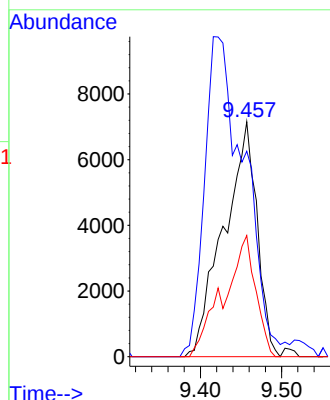
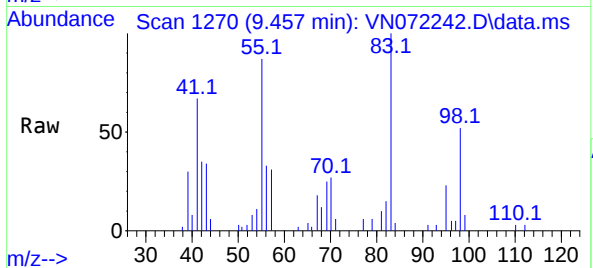




#39  
Methylcyclohexane  
Concen: 4.055 ug/l  
RT: 9.457 min Scan# 1100  
Delta R.T. 0.000 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

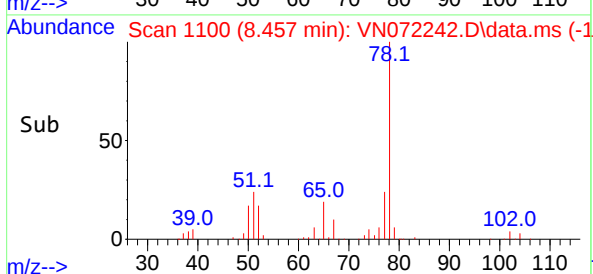
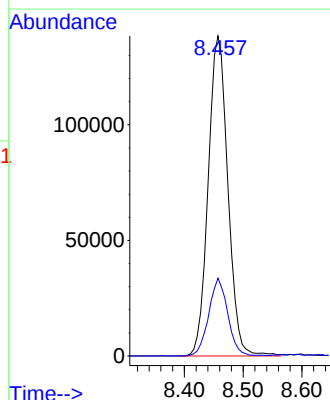
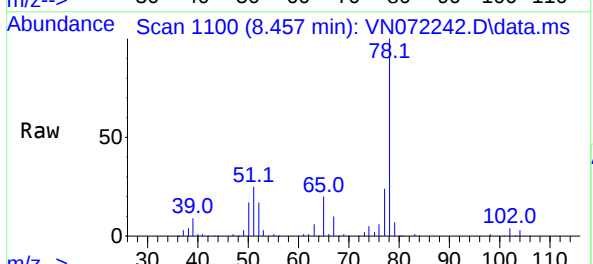
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-6I

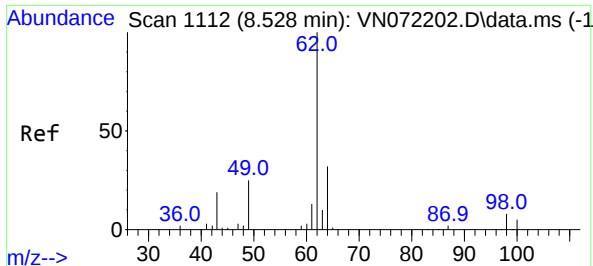
Tgt Ion: 83 Resp: 20386  
Ion Ratio Lower Upper  
83 100  
55 87.5 57.8 86.8#  
98 51.6 39.4 59.2



#40  
Benzene  
Concen: 23.105 ug/l  
RT: 8.457 min Scan# 1100  
Delta R.T. 0.000 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

Tgt Ion: 78 Resp: 322120  
Ion Ratio Lower Upper  
78 100  
77 24.3 19.4 29.0

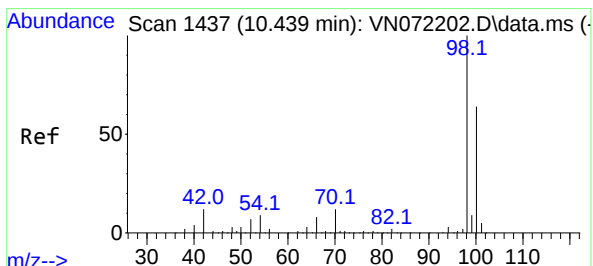
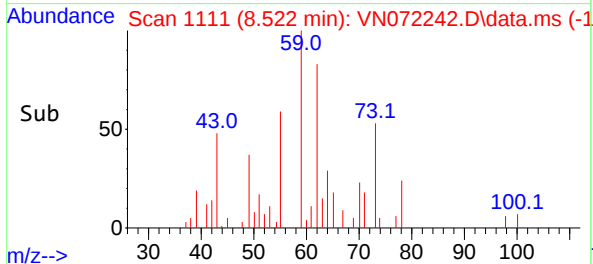
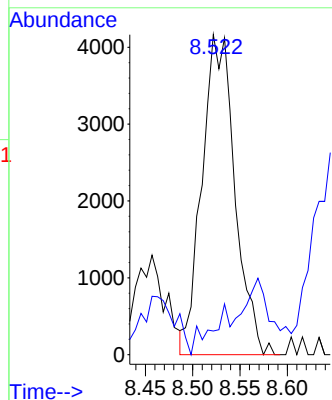
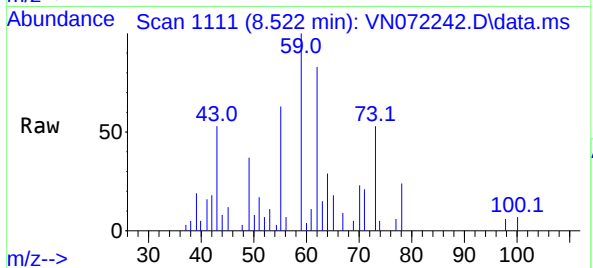




#42  
1,2-Dichloroethane  
Concen: 1.887 ug/l  
RT: 8.522 min Scan# 1112  
Delta R.T. -0.006 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

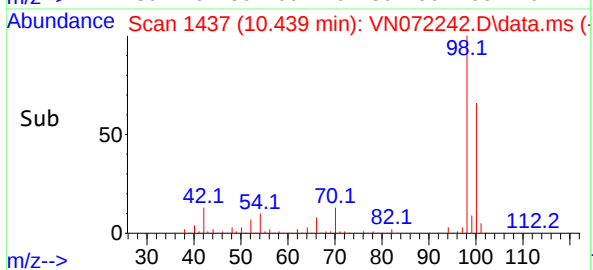
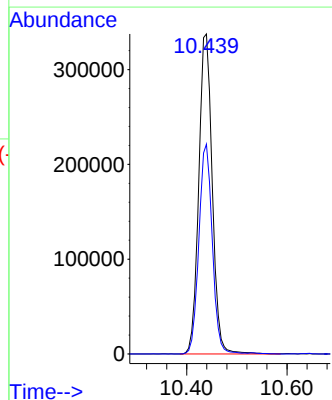
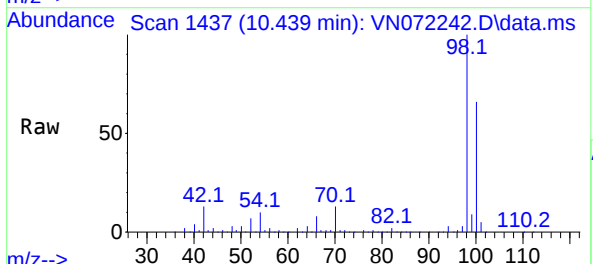
Instrument :  
MSVOA\_N  
ClientSampleId :  
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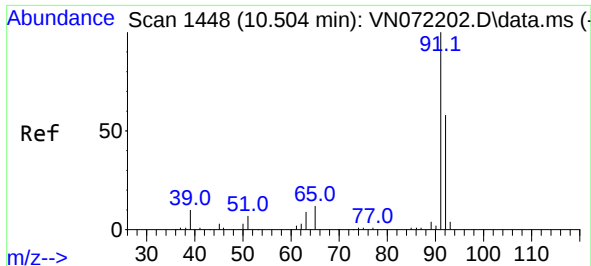
Tgt Ion: 62 Resp: 10074  
Ion Ratio Lower Upper  
62 100  
98 8.9 0.0 19.4



#50  
Toluene-d8  
Concen: 51.886 ug/l  
RT: 10.439 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

Tgt Ion: 98 Resp: 629566  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.6 78.8

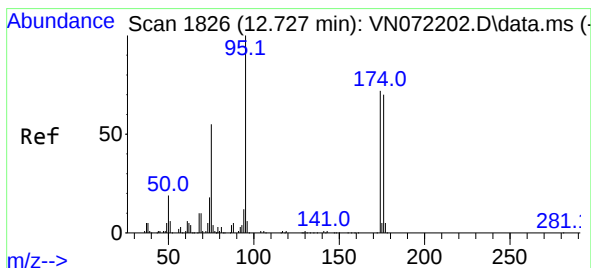
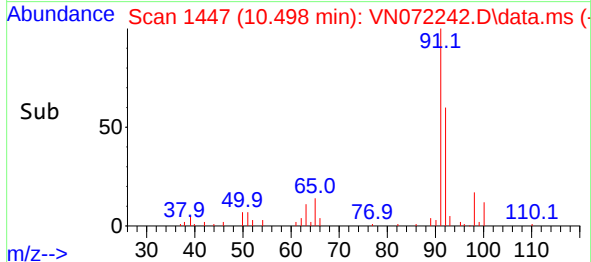
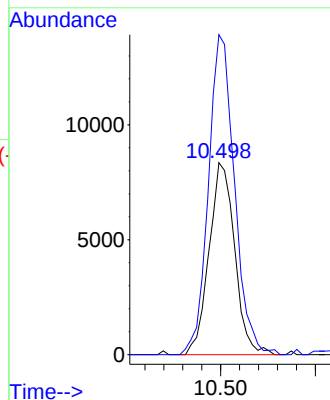
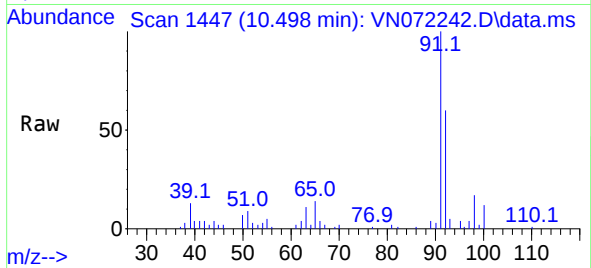




#52  
Toluene  
Concen: 1.882 ug/l  
RT: 10.498 min Scan# 1448  
Delta R.T. -0.006 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

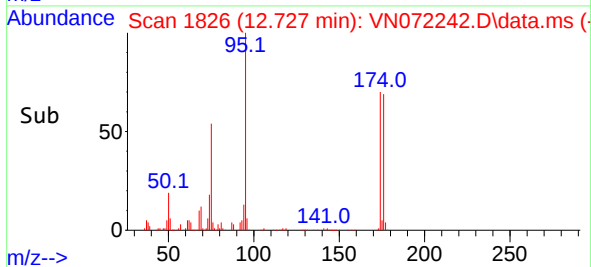
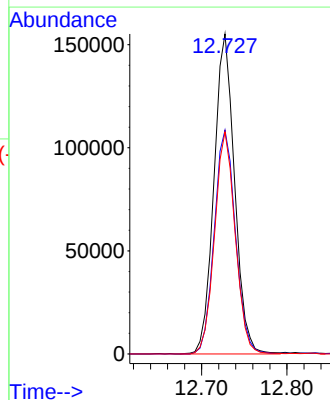
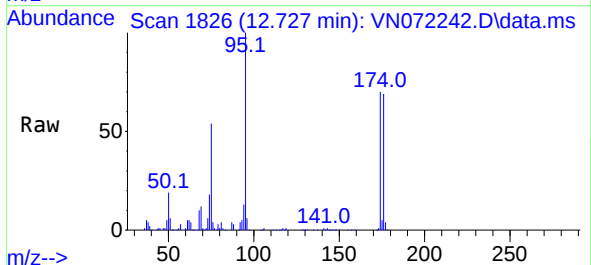
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MSVOA\_N  
ClientSampleId :  
MW-6I

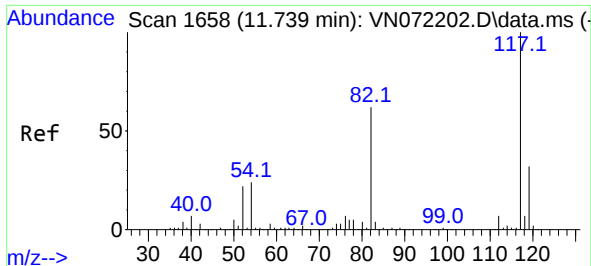
Tgt Ion: 92 Resp: 15684  
Ion Ratio Lower Upper  
92 100  
91 169.5 138.6 207.8



#62  
4-Bromofluorobenzene  
Concen: 64.808 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.000 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

Tgt Ion: 95 Resp: 261008  
Ion Ratio Lower Upper  
95 100  
174 71.9 0.0 167.6  
176 69.2 0.0 163.4

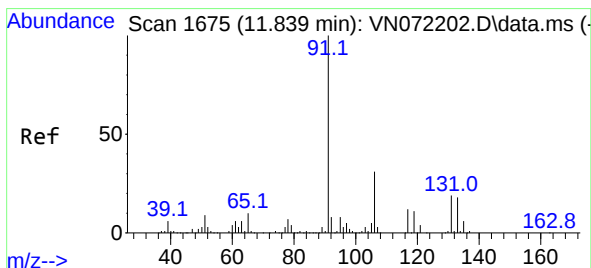
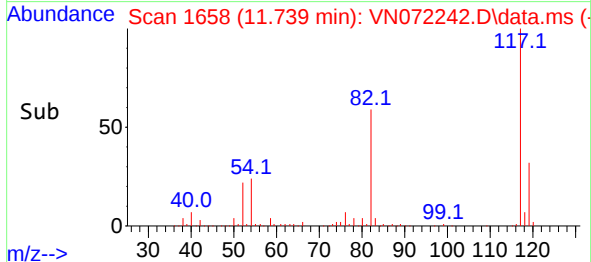
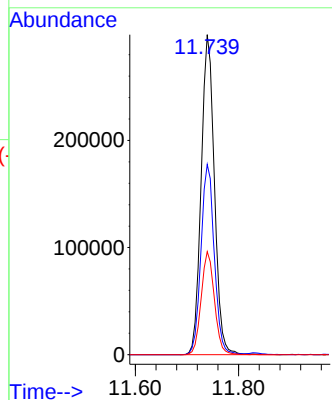
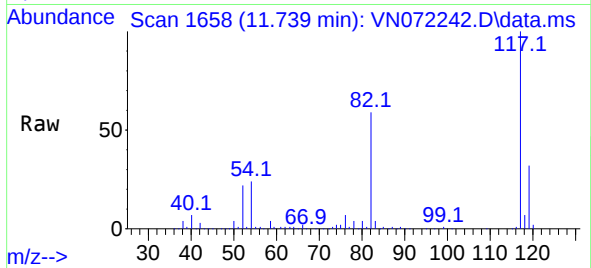




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.739 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

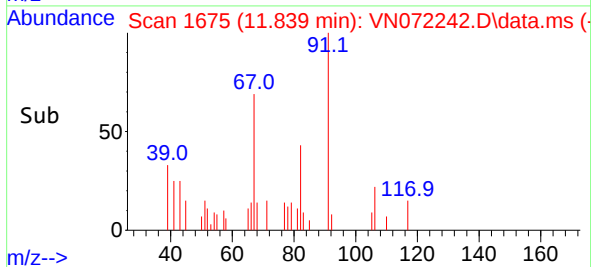
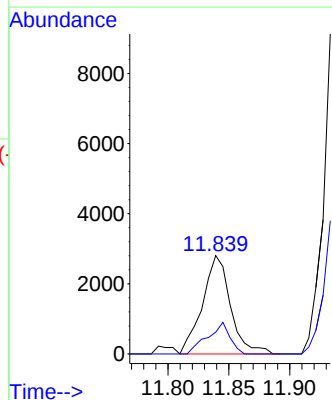
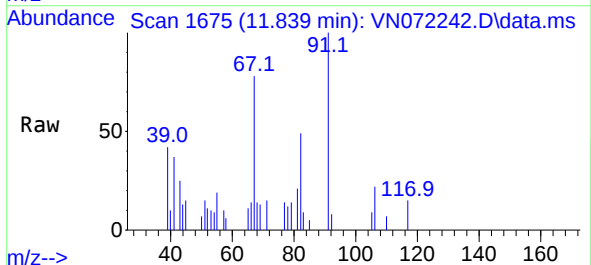
Instrument :  
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ClientSampleId :  
MW-6I

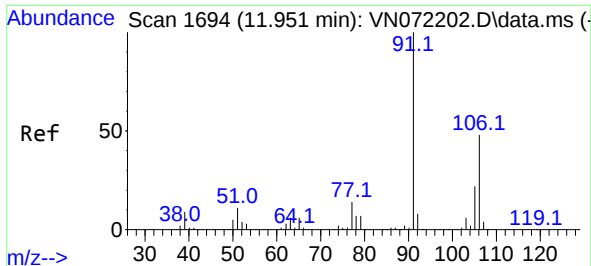
Tgt Ion:117 Resp: 531438  
Ion Ratio Lower Upper  
117 100  
82 59.5 44.2 66.2  
119 32.2 25.4 38.0



#67  
Ethyl Benzene  
Concen: 0.241 ug/l  
RT: 11.839 min Scan# 1675  
Delta R.T. 0.000 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

Tgt Ion: 91 Resp: 4510  
Ion Ratio Lower Upper  
91 100  
106 22.2 24.9 37.3#

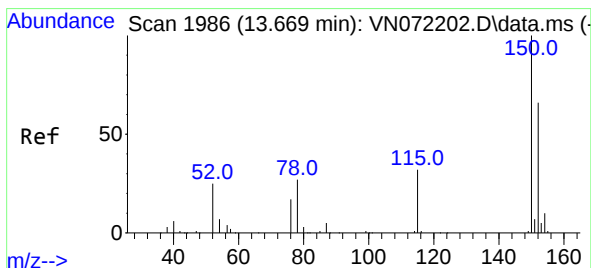
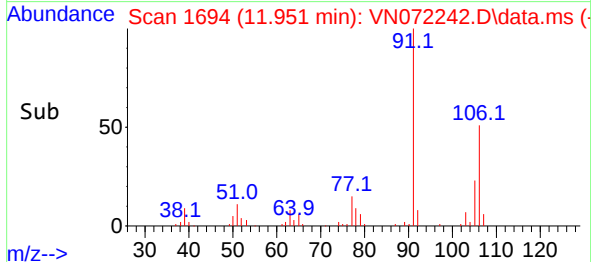
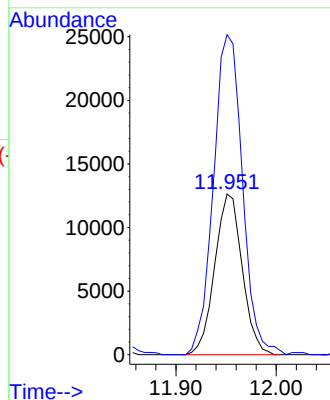
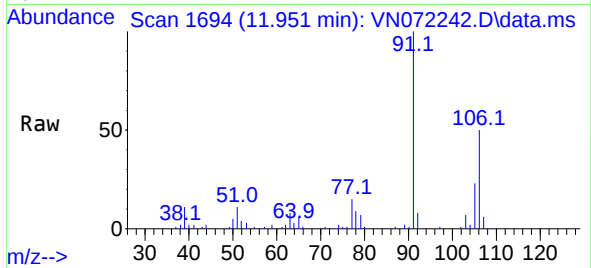




#68  
m/p-Xylenes  
Concen: 3.448 ug/l  
RT: 11.951 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

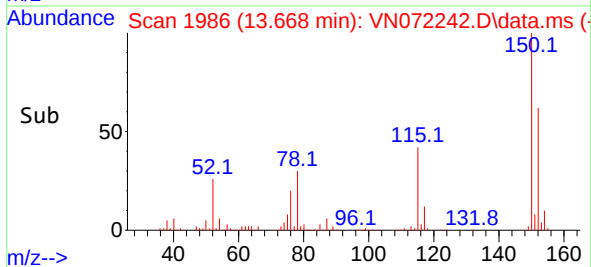
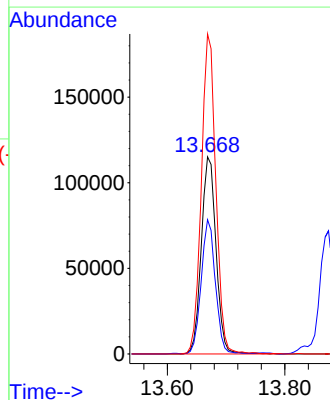
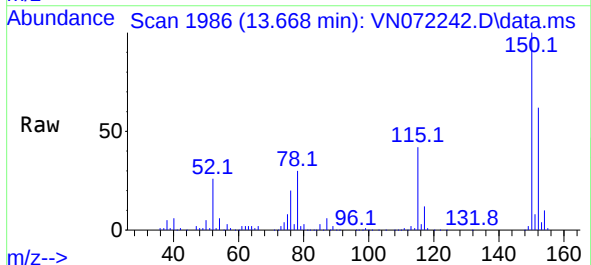
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-6I

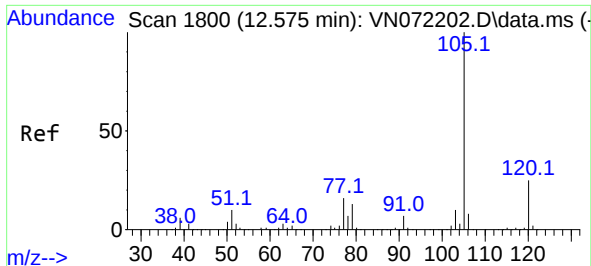
Tgt Ion:106 Resp: 23978  
Ion Ratio Lower Upper  
106 100  
91 210.2 158.9 238.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.668 min Scan# 1986  
Delta R.T. -0.001 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

Tgt Ion:152 Resp: 200216  
Ion Ratio Lower Upper  
152 100  
115 65.0 28.9 86.7  
150 159.3 0.0 356.2

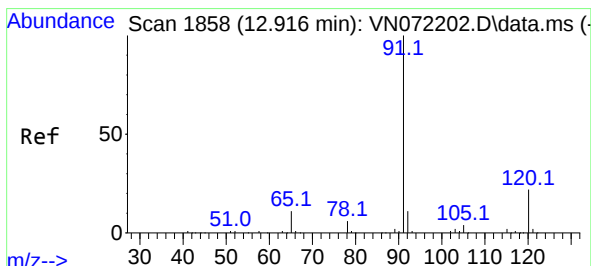
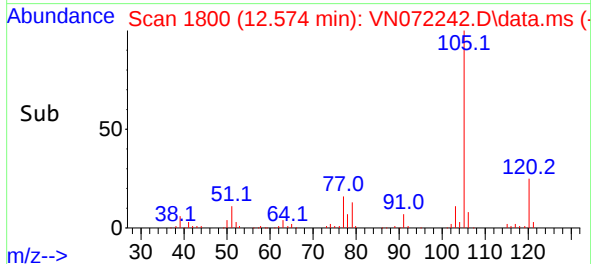
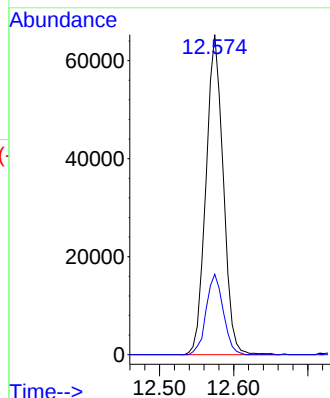
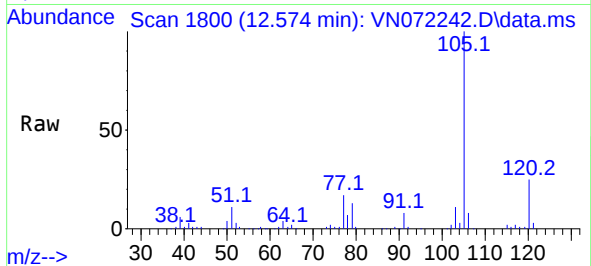




#73  
Isopropylbenzene  
Concen: 5.994 ug/l  
RT: 12.574 min Scan# 11  
Delta R.T. -0.001 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

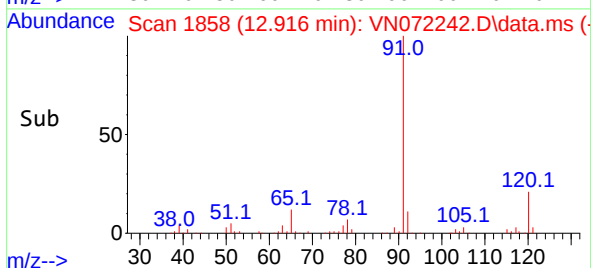
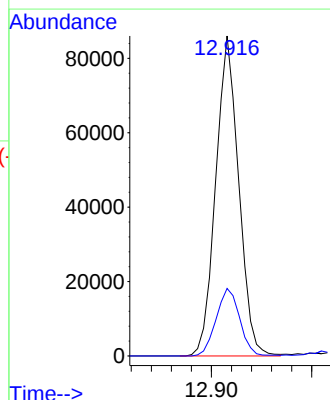
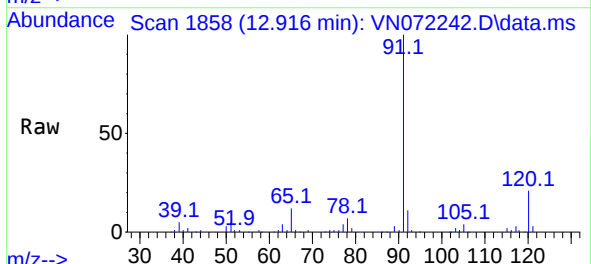
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-6I

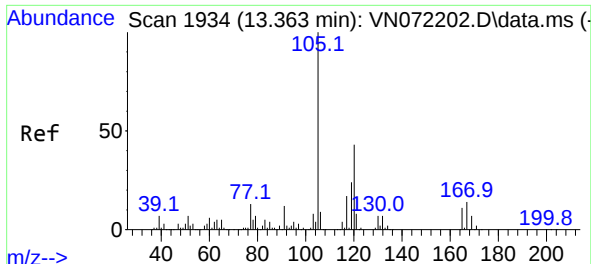
Tgt Ion:105 Resp: 105995  
Ion Ratio Lower Upper  
105 100  
120 24.9 13.5 40.4



#78  
n-propylbenzene  
Concen: 7.017 ug/l  
RT: 12.916 min Scan# 1858  
Delta R.T. -0.000 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

Tgt Ion: 91 Resp: 136704  
Ion Ratio Lower Upper  
91 100  
120 21.7 11.9 35.5

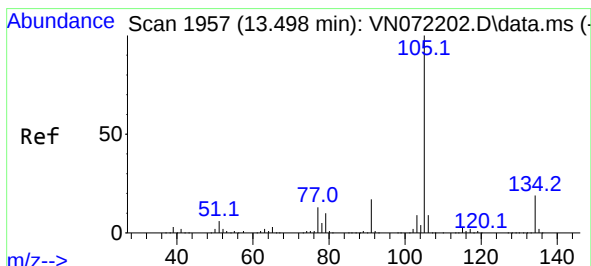
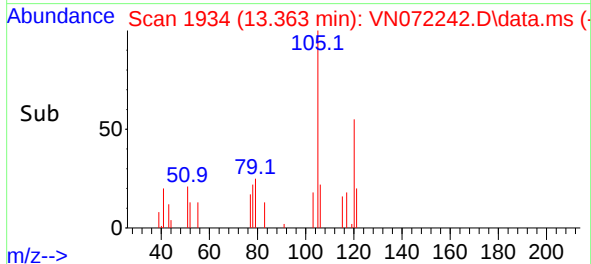
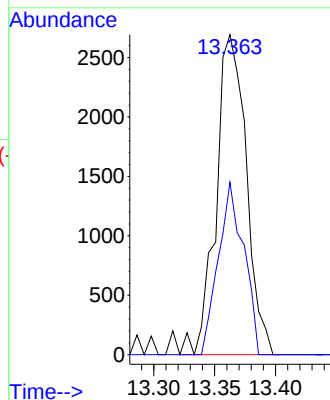
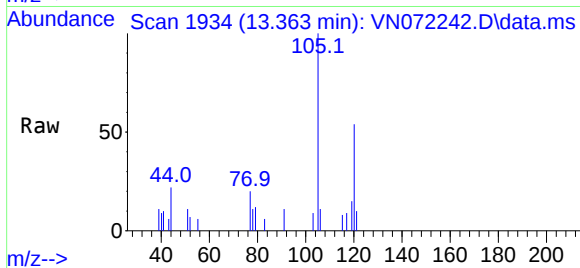




#84  
1,2,4-Trimethylbenzene  
Concen: 0.326 ug/l  
RT: 13.363 min Scan# 1934  
Delta R.T. -0.000 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

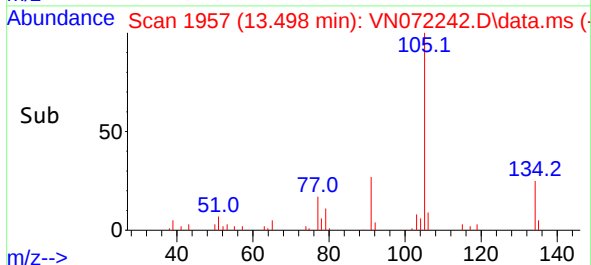
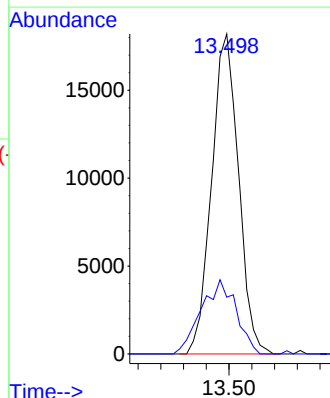
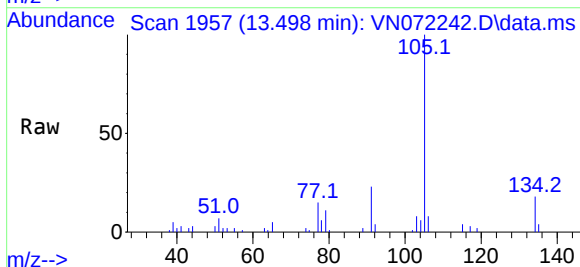
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-6I

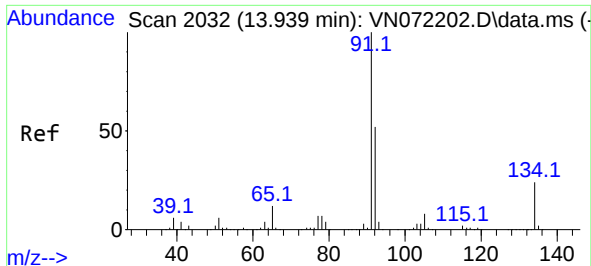
Tgt Ion:105 Resp: 4650  
Ion Ratio Lower Upper  
105 100  
120 45.3 23.3 69.8



#85  
sec-Butylbenzene  
Concen: 1.775 ug/l  
RT: 13.498 min Scan# 1957  
Delta R.T. -0.000 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

Tgt Ion:105 Resp: 29916  
Ion Ratio Lower Upper  
105 100  
134 30.1 10.4 31.1

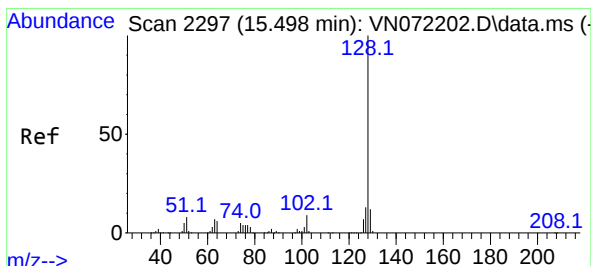
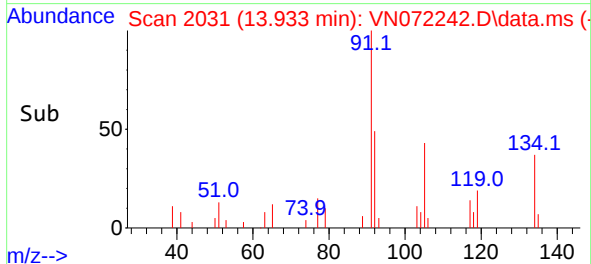
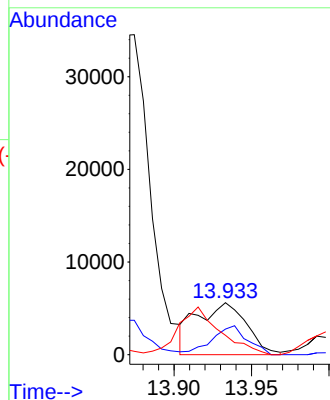
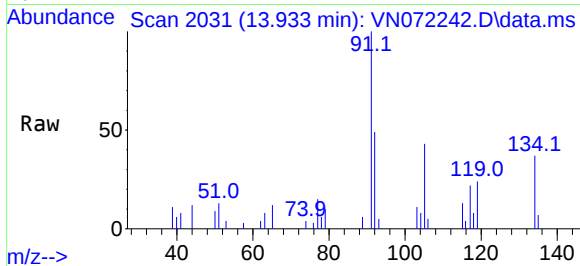




#89  
n-Butylbenzene  
Concen: 1.242 ug/l  
RT: 13.933 min Scan# 2032  
Delta R.T. -0.006 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-6I

Tgt Ion: 91 Resp: 12500  
Ion Ratio Lower Upper  
91 100  
92 39.5 26.9 80.7  
134 0.0 13.6 40.8#



#95  
Naphthalene  
Concen: 7.373 ug/l  
RT: 15.504 min Scan# 2298  
Delta R.T. 0.006 min  
Lab File: VN072242.D  
Acq: 28 Apr 2022 16:59

Tgt Ion: 128 Resp: 34877  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.3 15.5  
129 11.5 8.6 13.0

