

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN123021\  
 Data File : VN070390.D  
 Acq On : 30 Dec 2021 10:53  
 Operator : JC/MD  
 Sample : VN1230WBL01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1230WBL01

Quant Time: Dec 30 17:32:28 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122721W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 27 18:47:12 2021  
 Response via : Initial Calibration

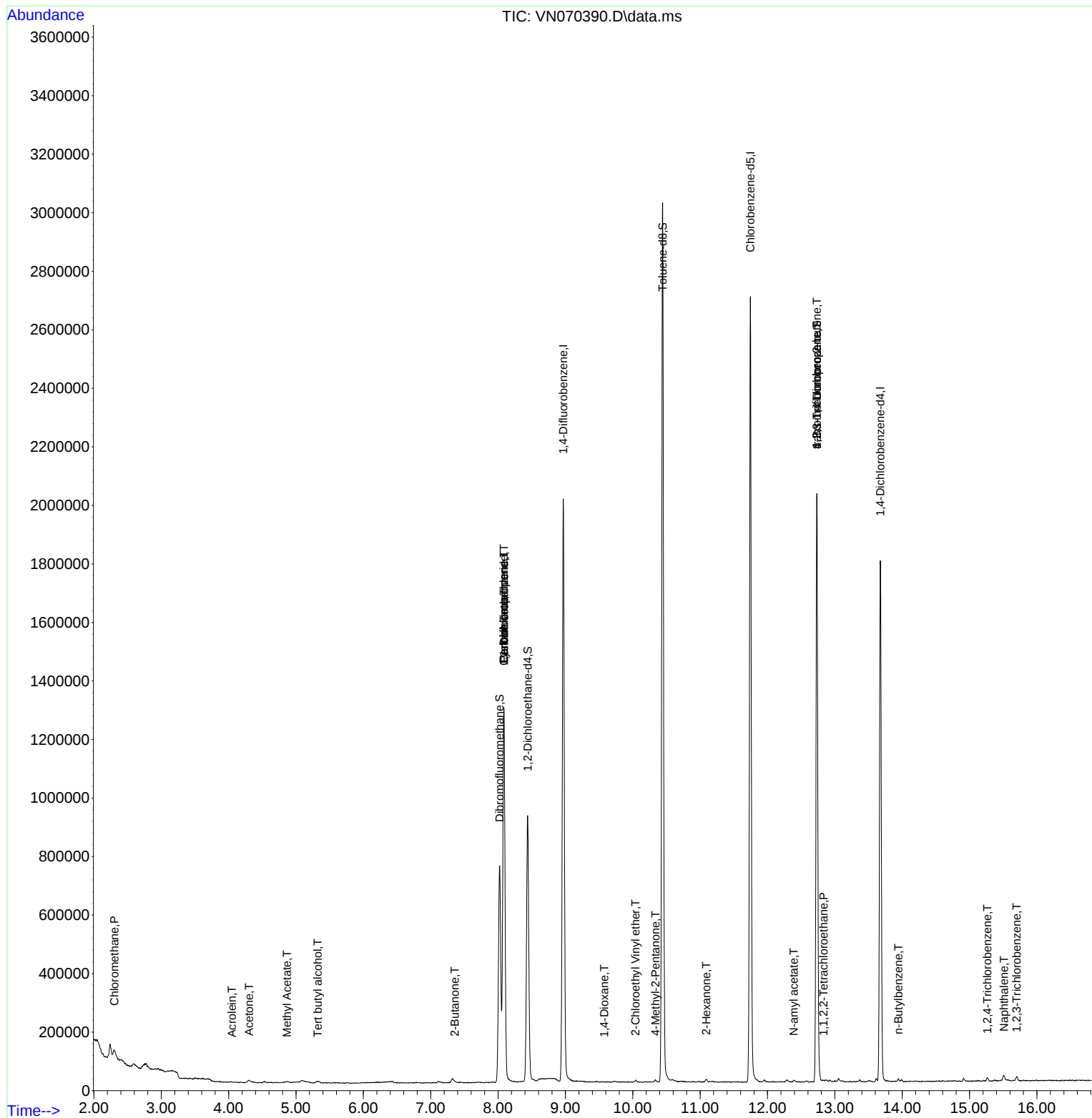
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 8.086          | 168  | 974691              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.968          | 114  | 1681355             | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.747         | 117  | 1512398             | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.675         | 152  | 490764              | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.440          | 65   | 762664              | 54.421 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 108.840% |        |        |          |
| 35) Dibromofluoromethane      | 8.021          | 113  | 548771              | 53.944 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 107.880% |        |        |          |
| 50) Toluene-d8                | 10.443         | 98   | 2066379             | 49.723 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 99.440%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.733         | 95   | 726308              | 48.389 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 96.780%  |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        | Qvalue   |
| 3) Chloromethane              | 2.303          | 50   | 4366                | 0.290  | ug/l   | 93       |
| 11) Tert butyl alcohol        | 5.323          | 59   | 6333                | 2.714  | ug/l # | 71       |
| 13) Acrolein                  | 4.047          | 56   | 1056                | 0.558  | ug/l # | 50       |
| 16) Acetone                   | 4.301          | 43   | 8226                | 0.904  | ug/l   | 97       |
| 18) Methyl Acetate            | 4.867          | 43   | 7648                | 0.291  | ug/l # | 58       |
| 25) 2-Butanone                | 7.356          | 43   | 4896                | 0.427  | ug/l   | 98       |
| 31) Cyclohexane               | 8.088          | 56   | 23333               | 1.055  | ug/l # | 10       |
| 36) 1,1-Dichloropropene       | 8.088          | 75   | 79810               | 4.742  | ug/l # | 42       |
| 38) Carbon Tetrachloride      | 8.086          | 117  | 96875               | 6.028  | ug/l # | 16       |
| 49) 1,4-Dioxane               | 9.577          | 88   | 58                  | 0.242  | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.338         | 43   | 6845                | 0.317  | ug/l # | 81       |
| 58) 2-Chloroethyl Vinyl ether | 10.041         | 63   | 2668                | 18.987 | ug/l # | 84       |
| 59) 2-Hexanone                | 11.092         | 43   | 7412                | 0.470  | ug/l   | 92       |
| 74) N-amyl acetate            | 12.390         | 43   | 3908                | 0.204  | ug/l # | 81       |
| 75) 1,1,2,2-Tetrachloroethane | 12.833         | 83   | 1663                | 0.547  | ug/l # | 64       |
| 76) 1,2,3-Trichloropropane    | 12.733         | 75   | 385359              | 27.807 | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.733         | 75   | 385359              | 95.936 | ug/l # | 5        |
| 89) n-Butylbenzene            | 13.943         | 91   | 5743                | 0.201  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.265         | 180  | 4260                | 0.527  | ug/l   | 96       |
| 95) Naphthalene               | 15.512         | 128  | 19910               | 2.655  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.700         | 180  | 4922                | 1.452  | ug/l   | 94       |
| -----                         |                |      |                     |        |        |          |

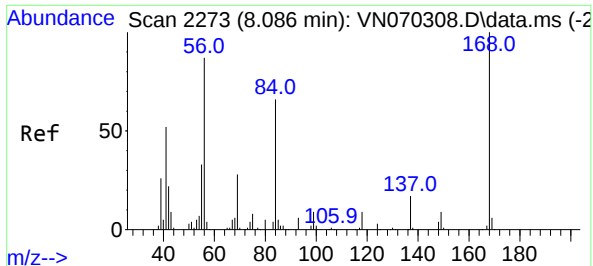
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN123021\  
Data File : VN070390.D  
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Sample : VN1230WBL01  
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ALS Vial : 4 Sample Multiplier: 1

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MSVOA\_N  
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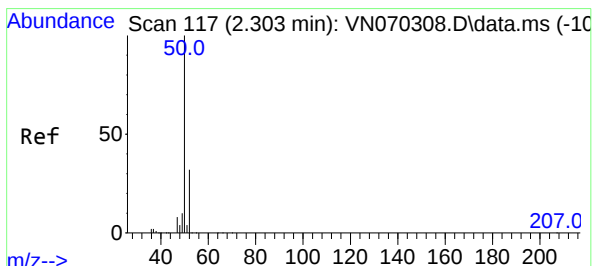
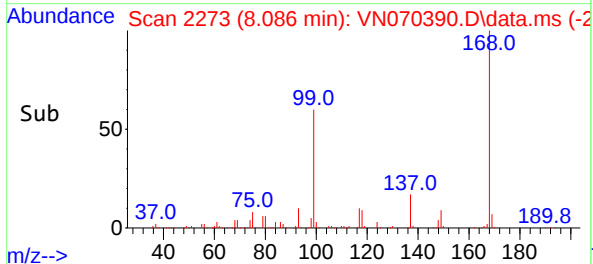
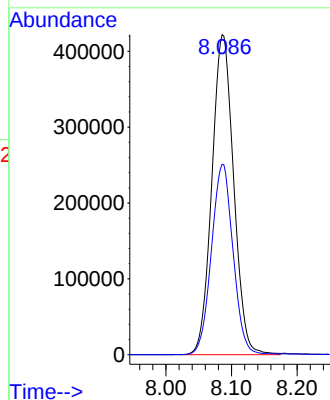
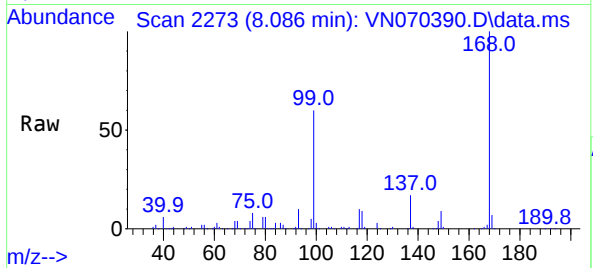




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.086 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

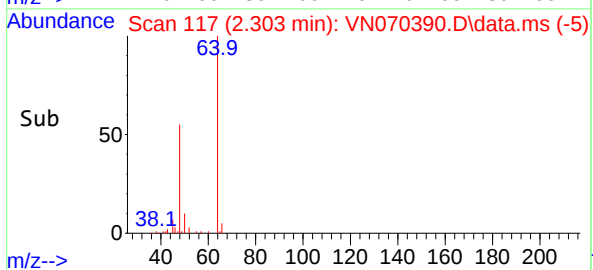
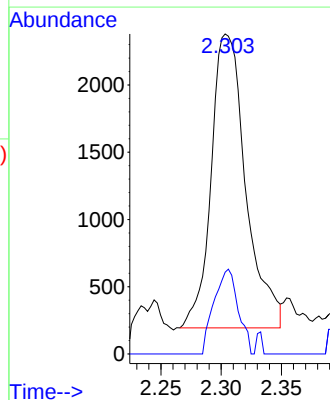
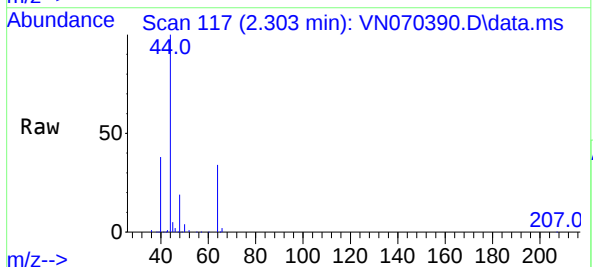
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1230WBL01

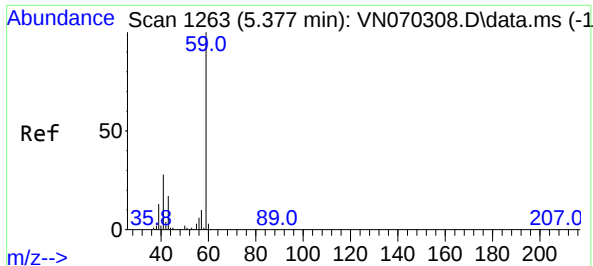
Tgt Ion:168 Resp: 974691  
Ion Ratio Lower Upper  
168 100  
99 59.5 41.3 61.9



#3  
Chloromethane  
Concen: 0.290 ug/l  
RT: 2.303 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

Tgt Ion: 50 Resp: 4366  
Ion Ratio Lower Upper  
50 100  
52 27.8 25.4 38.0





#11

Tert butyl alcohol

Concen: 2.714 ug/l

RT: 5.323 min Scan# 11

Delta R.T. -0.054 min

Lab File: VN070390.D

Acq: 30 Dec 2021 10:53

Instrument :

MSVOA\_N

ClientSampleId :

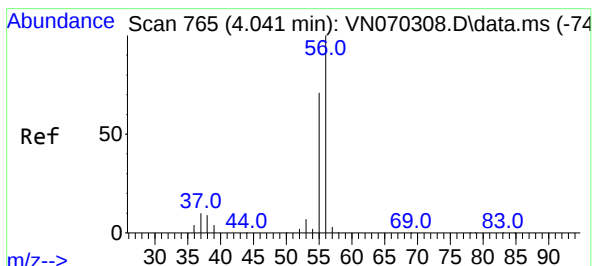
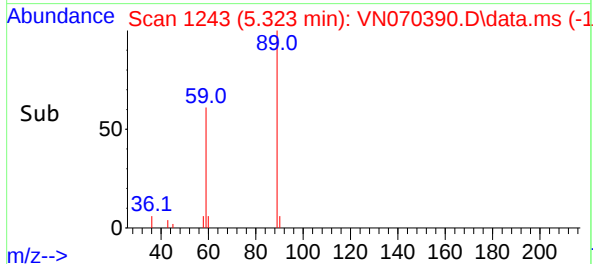
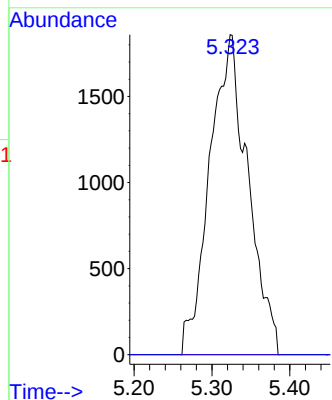
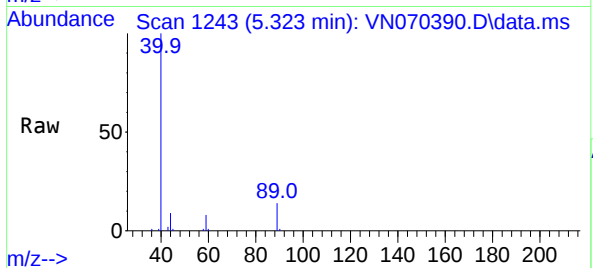
VN1230WBL01

Tgt Ion: 59 Resp: 6333

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#13

Acrolein

Concen: 0.558 ug/l

RT: 4.047 min Scan# 767

Delta R.T. 0.006 min

Lab File: VN070390.D

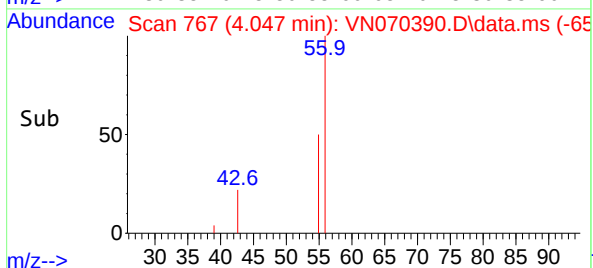
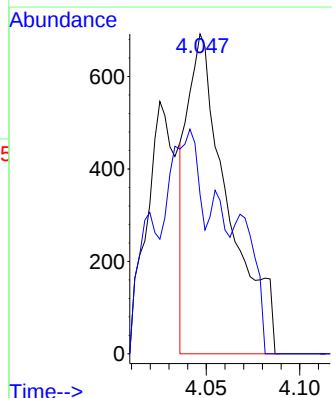
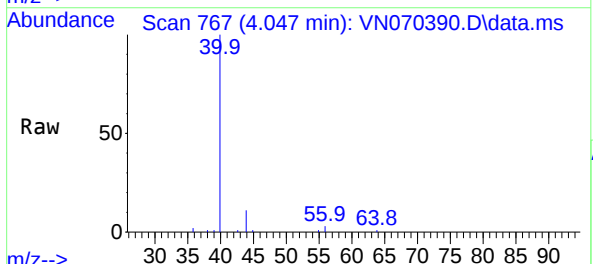
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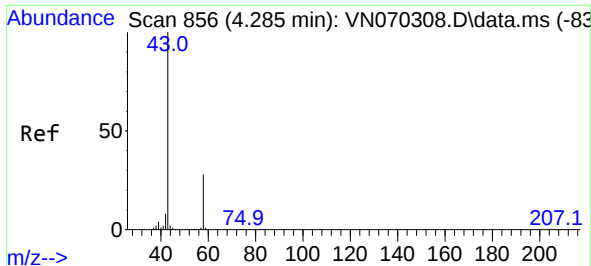
Tgt Ion: 56 Resp: 1056

Ion Ratio Lower Upper

56 100

55 29.6 56.6 85.0#

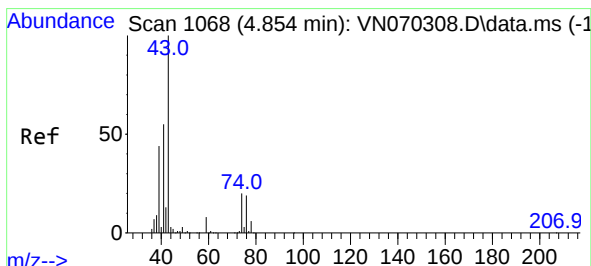
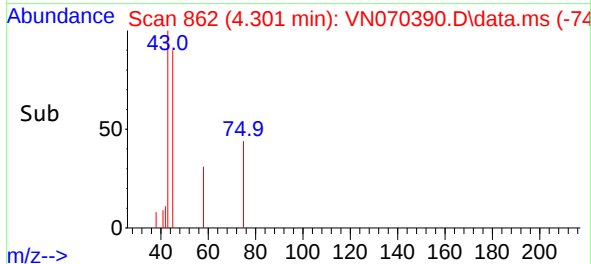
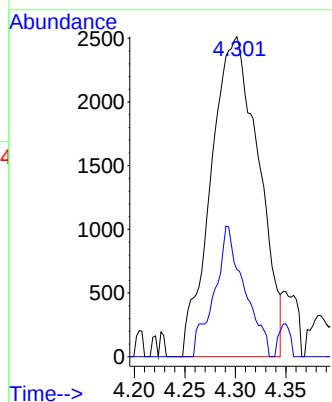
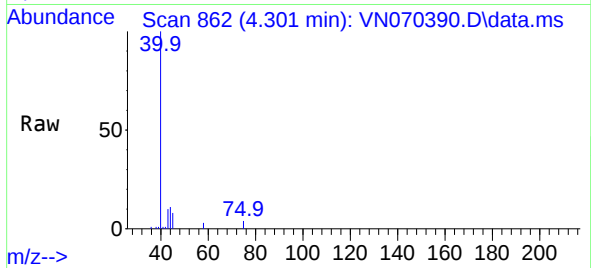




#16  
Acetone  
Concen: 0.904 ug/l  
RT: 4.301 min Scan# 80  
Delta R.T. 0.016 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

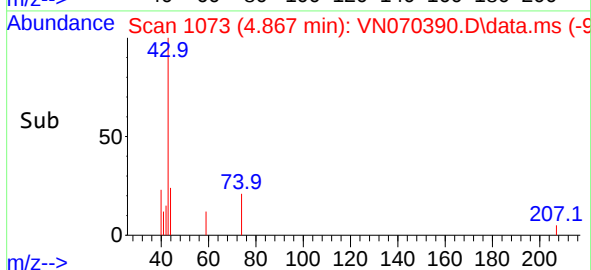
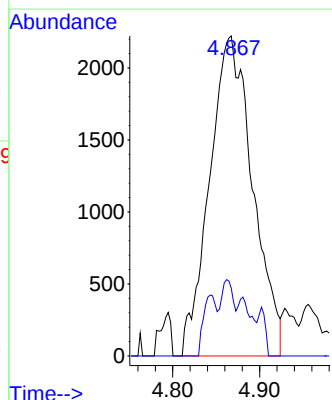
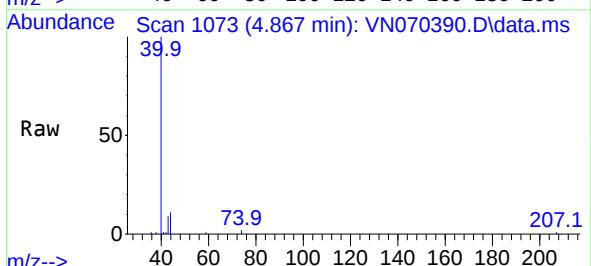
Instrument :  
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VN1230WBL01

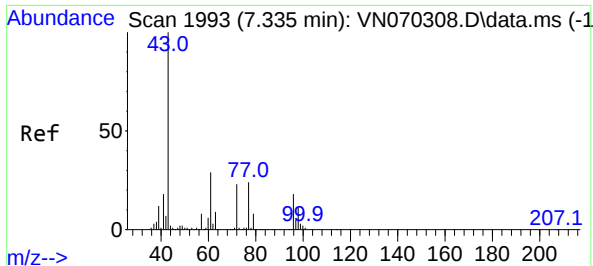
Tgt Ion: 43 Resp: 8226  
Ion Ratio Lower Upper  
43 100  
58 27.2 23.1 34.7



#18  
Methyl Acetate  
Concen: 0.291 ug/l  
RT: 4.867 min Scan# 1073  
Delta R.T. 0.013 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

Tgt Ion: 43 Resp: 7648  
Ion Ratio Lower Upper  
43 100  
74 3.3 19.4 29.2#

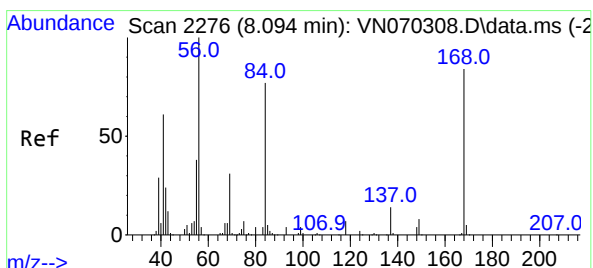
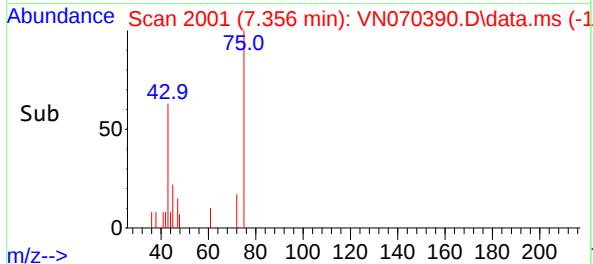
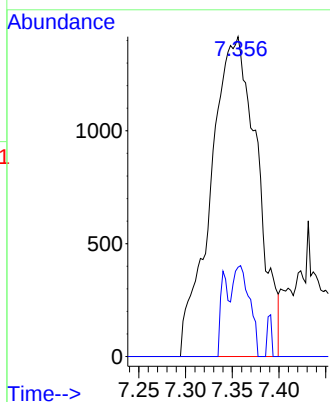
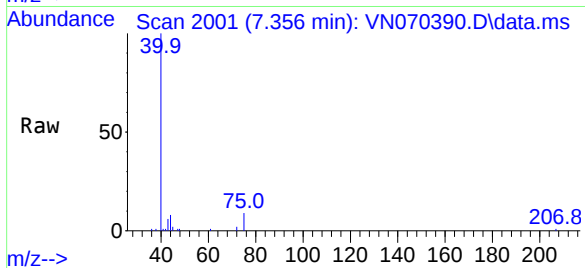




#25  
2-Butanone  
Concen: 0.427 ug/l  
RT: 7.356 min Scan# 201  
Delta R.T. 0.021 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

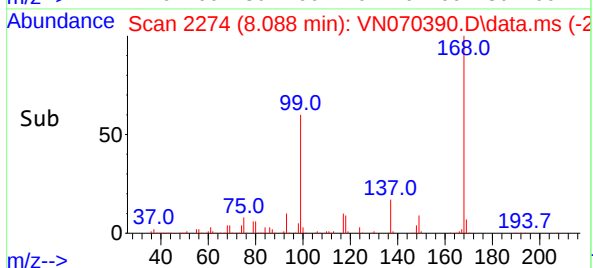
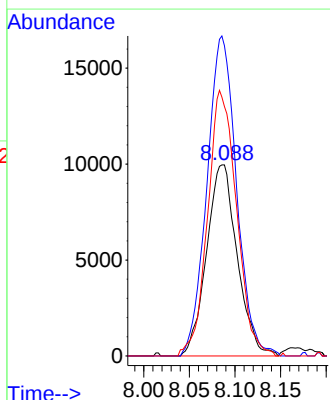
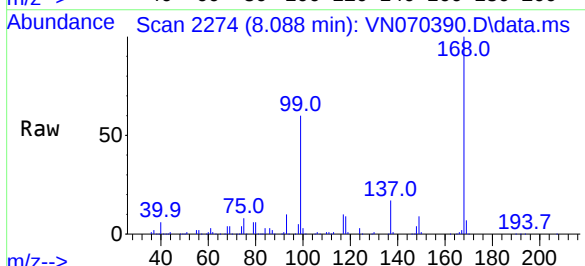
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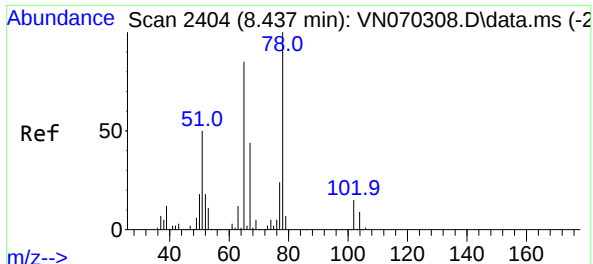
Tgt Ion: 43 Resp: 4896  
Ion Ratio Lower Upper  
43 100  
72 27.9 21.7 32.5



#31  
Cyclohexane  
Concen: 1.055 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.006 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

Tgt Ion: 56 Resp: 23333  
Ion Ratio Lower Upper  
56 100  
69 162.4 27.1 40.7#  
84 130.6 73.4 110.0#





#33

1,2-Dichloroethane-d4

Concen: 54.421 ug/l

RT: 8.440 min Scan# 24

Delta R.T. 0.003 min

Lab File: VN070390.D

Acq: 30 Dec 2021 10:53

Instrument :

MSVOA\_N

ClientSampleId :

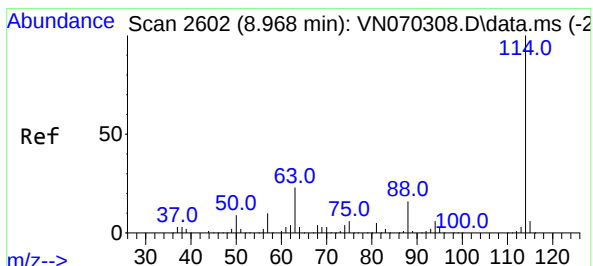
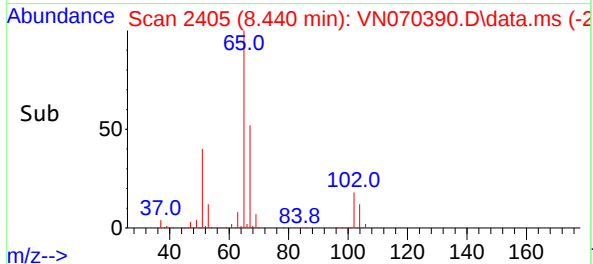
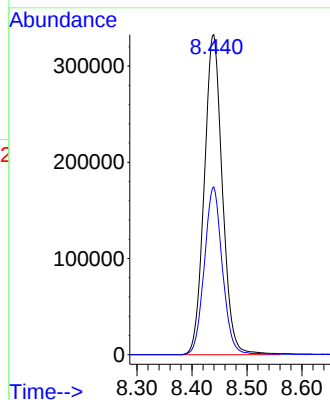
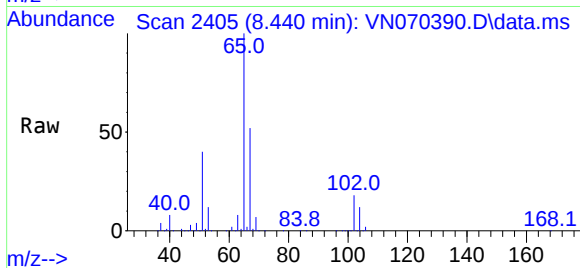
VN1230WBL01

Tgt Ion: 65 Resp: 762664

Ion Ratio Lower Upper

65 100

67 51.9 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. 0.000 min

Lab File: VN070390.D

Acq: 30 Dec 2021 10:53

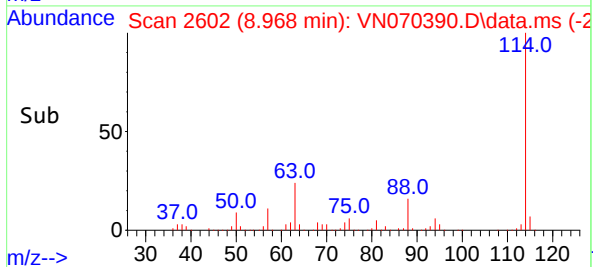
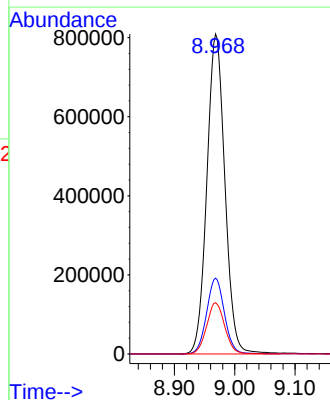
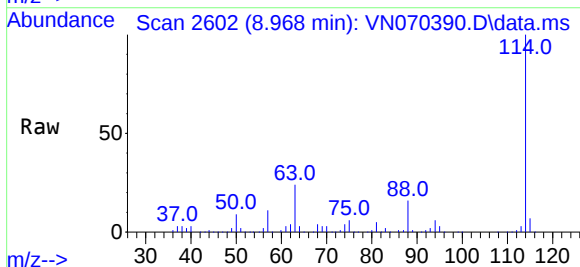
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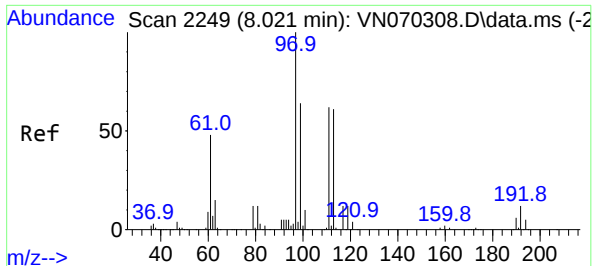
Ion Ratio Lower Upper

114 100

63 23.7 0.0 37.8

88 16.0 0.0 27.4

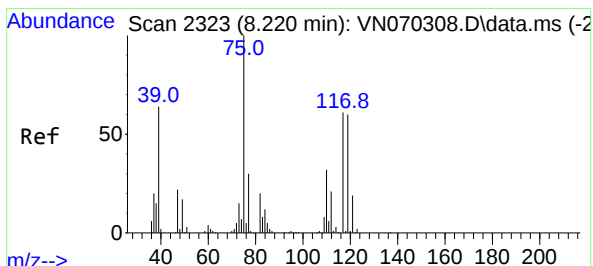
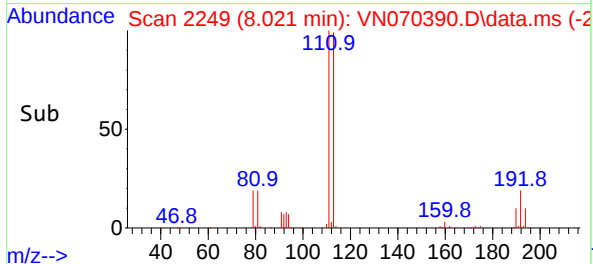
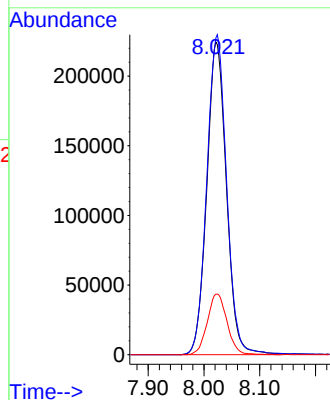
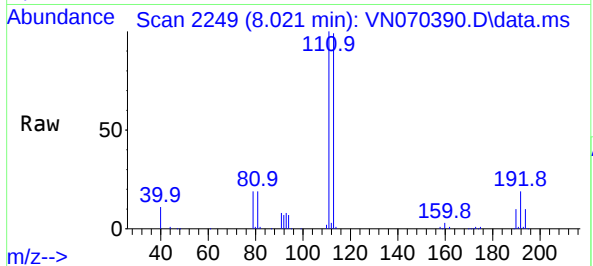




#35  
Dibromofluoromethane  
Concen: 53.944 ug/l  
RT: 8.021 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

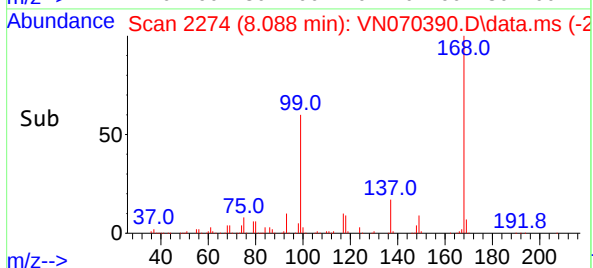
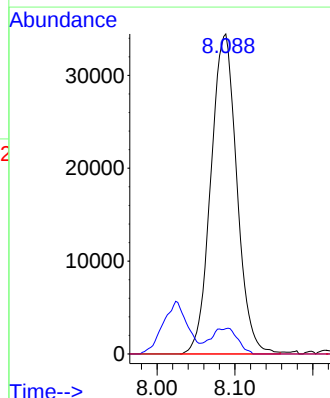
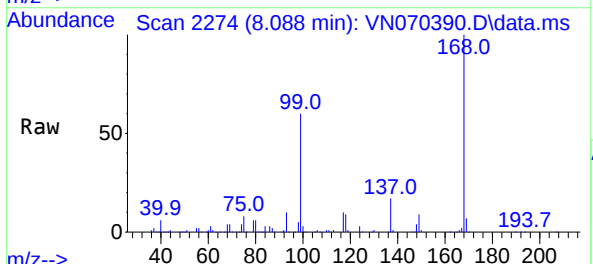
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1230WBL01

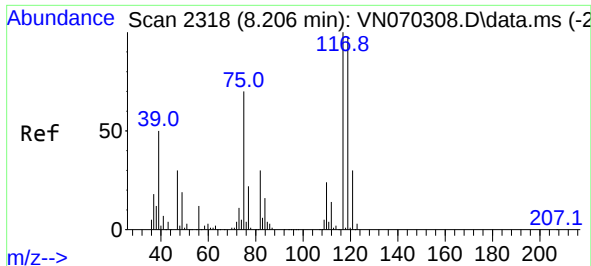
Tgt Ion:113 Resp: 548771  
Ion Ratio Lower Upper  
113 100  
111 103.3 82.2 123.2  
192 19.5 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 4.742 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.132 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

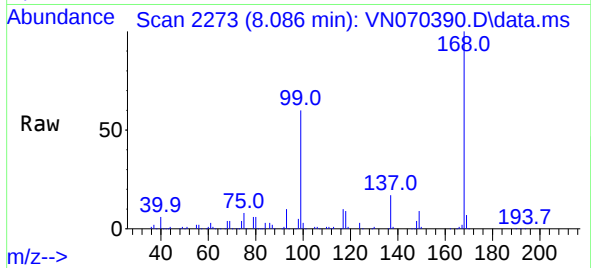
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Ion Ratio Lower Upper  
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77 0.0 24.4 36.6#



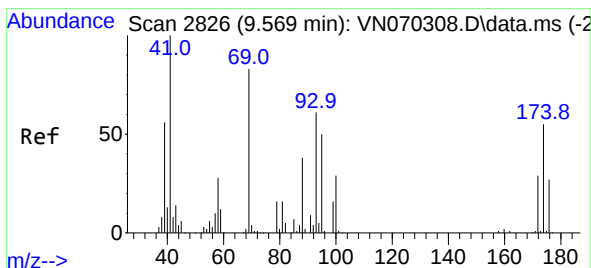
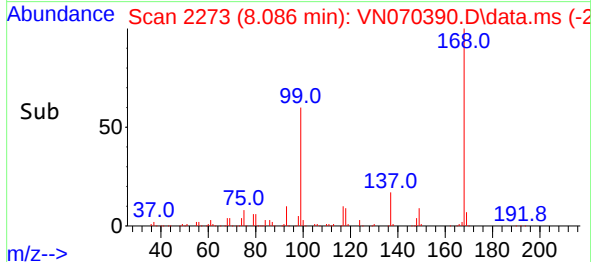
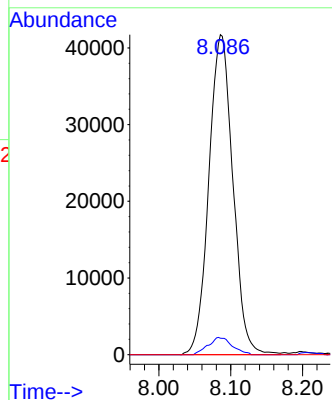


#38  
Carbon Tetrachloride  
Concen: 6.028 ug/l  
RT: 8.086 min Scan# 211  
Delta R.T. -0.120 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1230WBL01

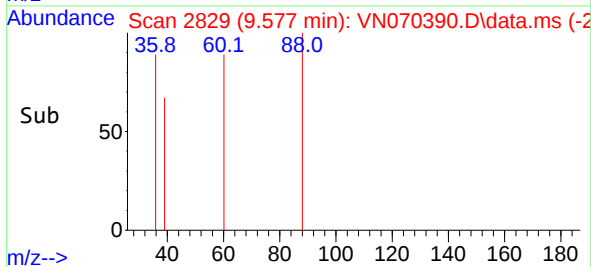
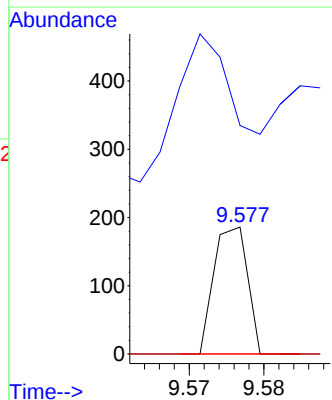
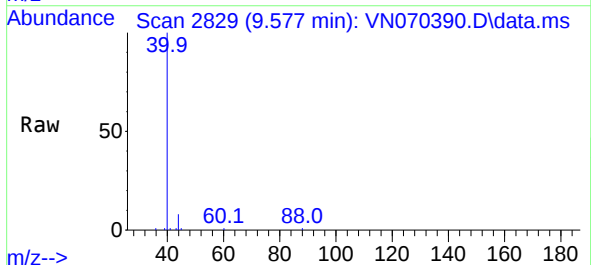


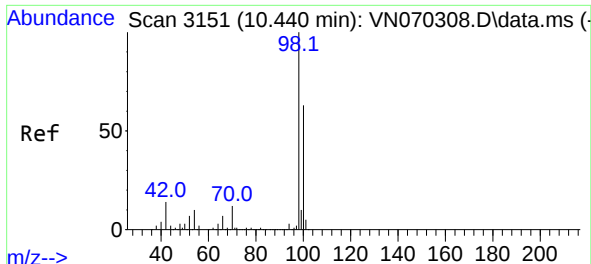
Tgt Ion:117 Resp: 96875  
Ion Ratio Lower Upper  
117 100  
119 5.1 76.1 114.1#  
121 0.0 24.2 36.2#



#49  
1,4-Dioxane  
Concen: 0.242 ug/l  
RT: 9.577 min Scan# 2829  
Delta R.T. 0.008 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

Tgt Ion: 88 Resp: 58  
Ion Ratio Lower Upper  
88 100  
43 205.2 23.4 35.2#  
58 0.0 50.6 75.8#

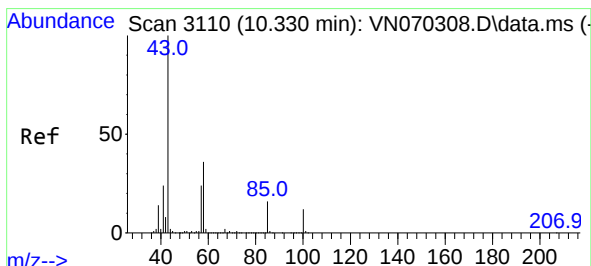
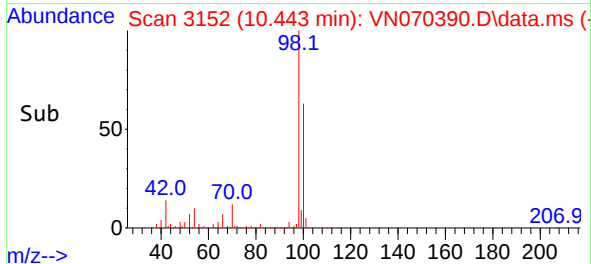
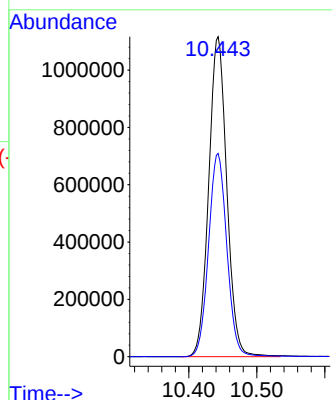
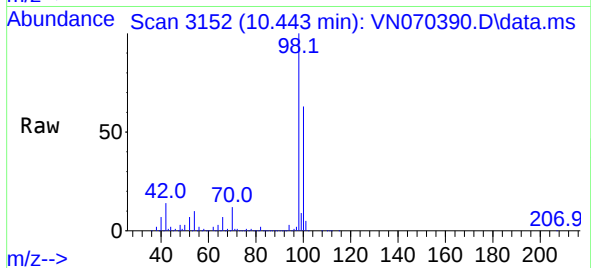




#50  
Toluene-d8  
Concen: 49.723 ug/l  
RT: 10.443 min Scan# 3151  
Delta R.T. 0.003 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

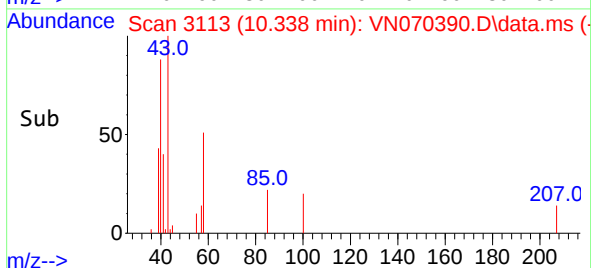
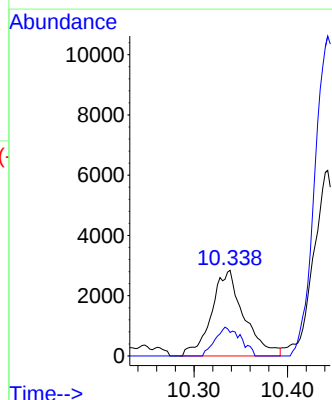
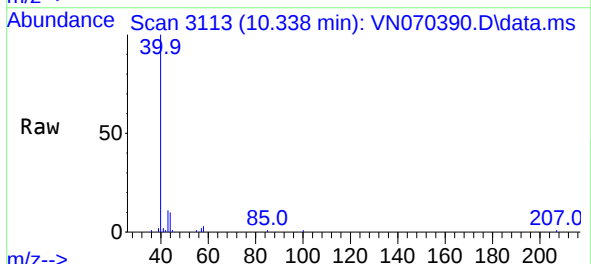
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1230WBL01

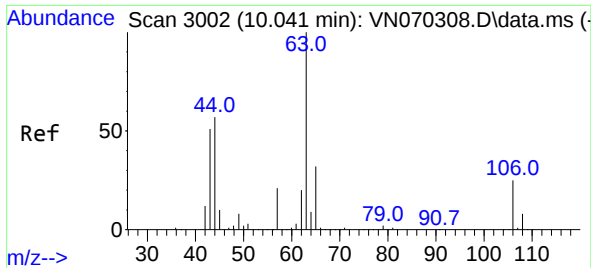
Tgt Ion: 98 Resp: 2066379  
Ion Ratio Lower Upper  
98 100  
100 64.4 50.4 75.6



#51  
4-Methyl-2-Pentanone  
Concen: 0.317 ug/l  
RT: 10.338 min Scan# 3113  
Delta R.T. 0.008 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

Tgt Ion: 43 Resp: 6845  
Ion Ratio Lower Upper  
43 100  
58 26.3 30.4 45.6#

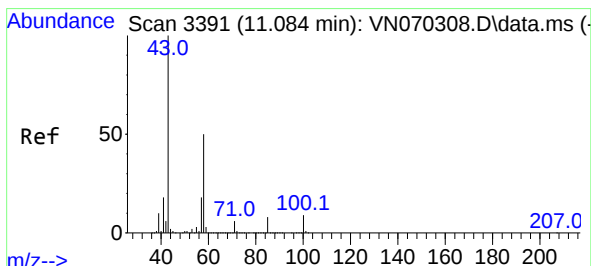
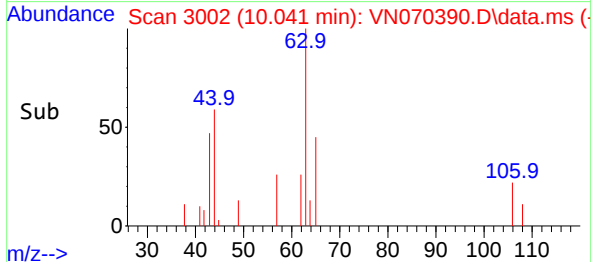
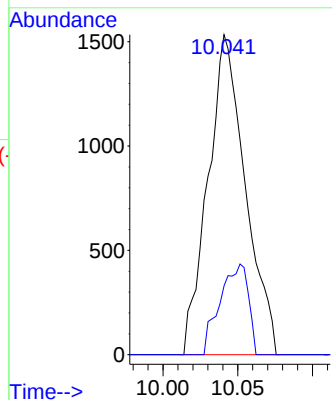
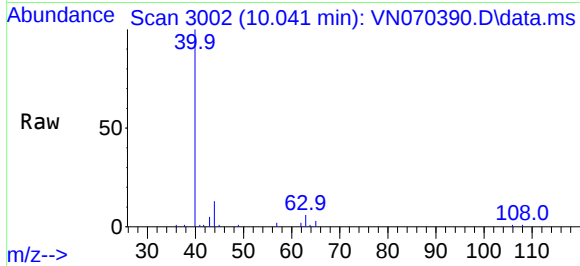




#58  
2-Chloroethyl Vinyl ether  
Concen: 18.987 ug/l  
RT: 10.041 min Scan# 3002  
Delta R.T. -0.000 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

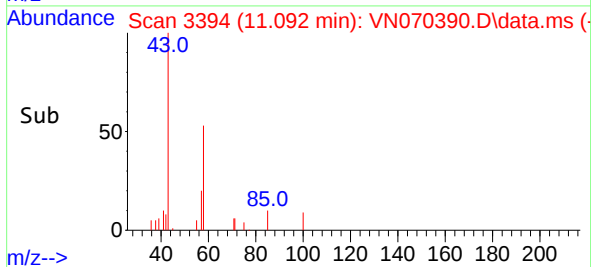
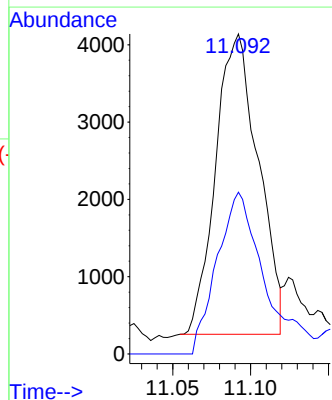
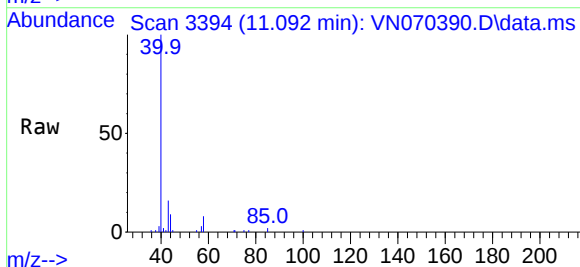
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1230WBL01

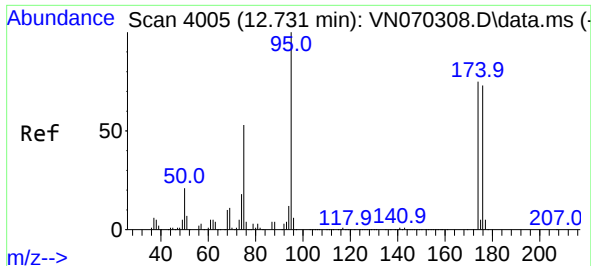
Tgt Ion: 63 Resp: 2668  
Ion Ratio Lower Upper  
63 100  
106 21.4 23.9 35.9#



#59  
2-Hexanone  
Concen: 0.470 ug/l  
RT: 11.092 min Scan# 3394  
Delta R.T. 0.008 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

Tgt Ion: 43 Resp: 7412  
Ion Ratio Lower Upper  
43 100  
58 59.6 26.9 80.7

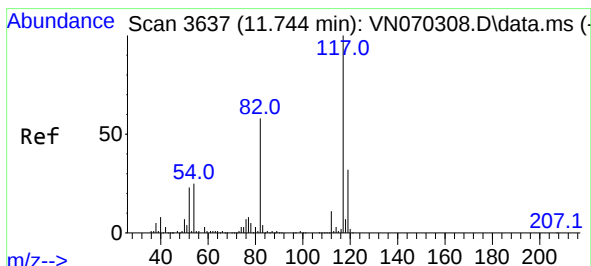
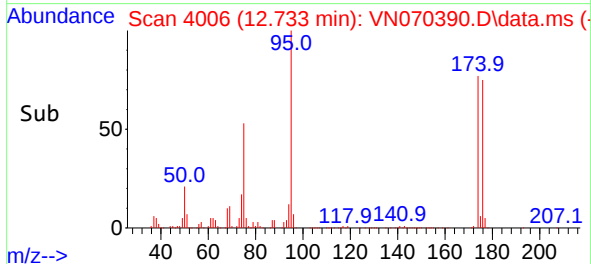
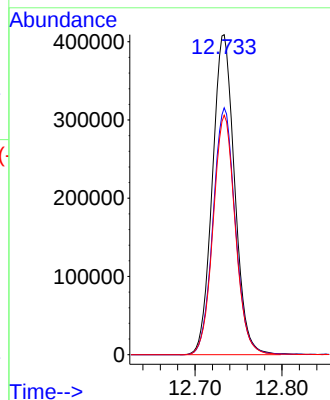
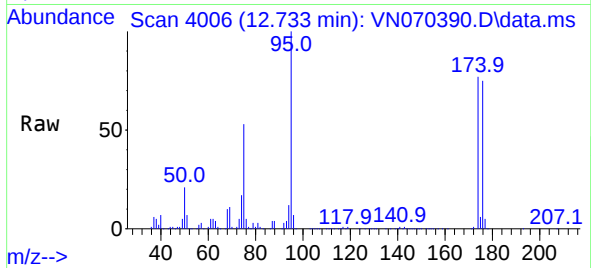




#62  
4-Bromofluorobenzene  
Concen: 48.389 ug/l  
RT: 12.733 min Scan# 4005  
Delta R.T. 0.002 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

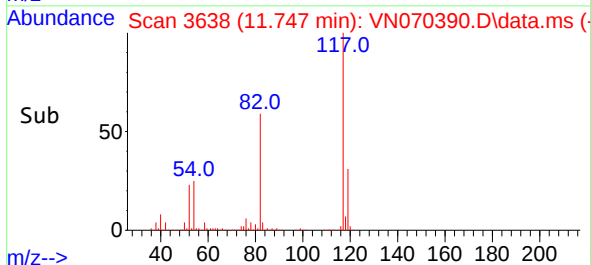
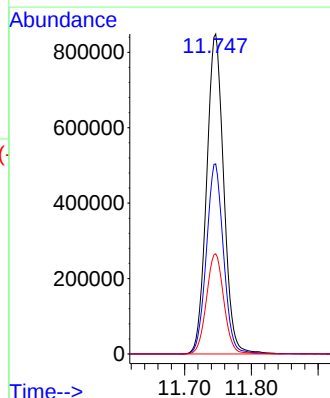
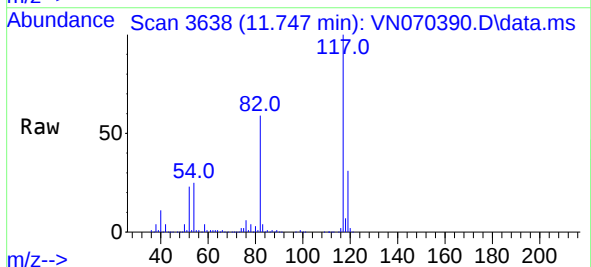
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1230WBL01

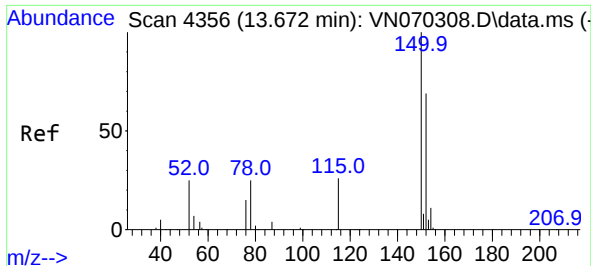
Tgt Ion: 95 Resp: 726308  
Ion Ratio Lower Upper  
95 100  
174 77.4 0.0 187.2  
176 74.7 0.0 181.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.747 min Scan# 3638  
Delta R.T. 0.003 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

Tgt Ion: 117 Resp: 1512398  
Ion Ratio Lower Upper  
117 100  
82 59.4 42.4 63.6  
119 31.3 25.4 38.2

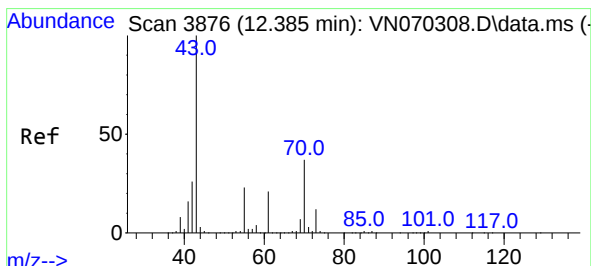
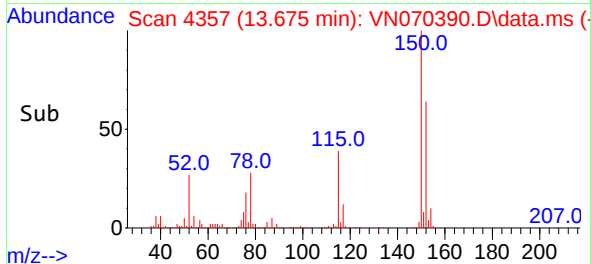
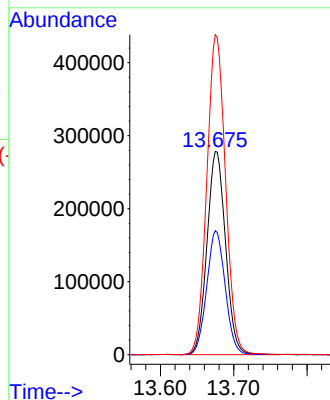
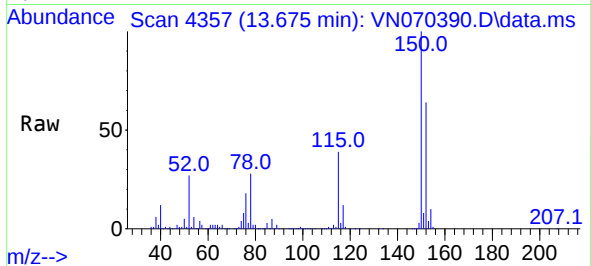




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.675 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

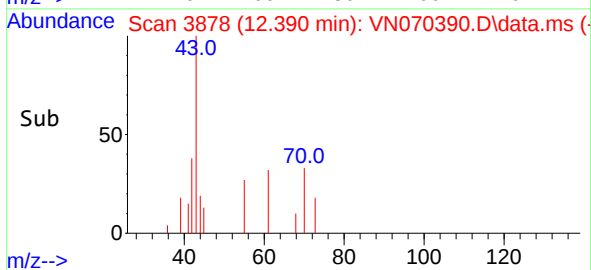
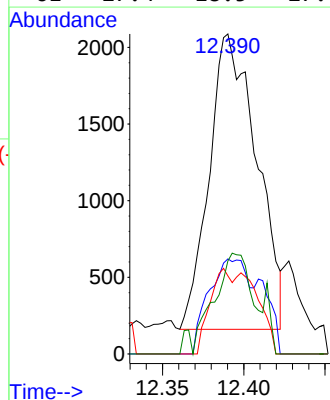
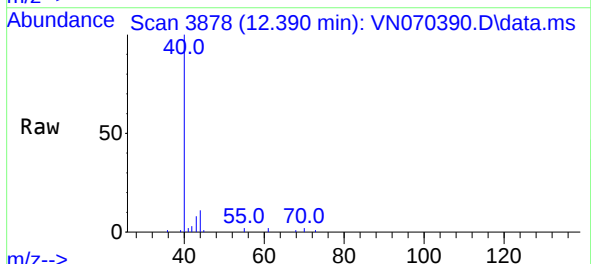
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1230WBL01

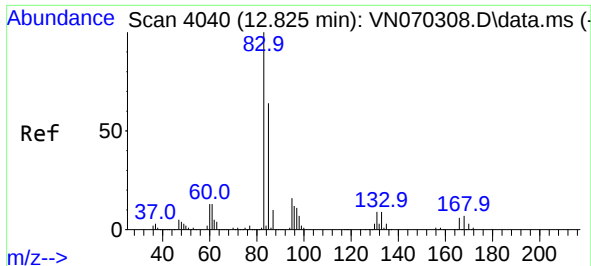
Tgt Ion:152 Resp: 490764  
Ion Ratio Lower Upper  
152 100  
115 60.8 27.5 82.5  
150 157.8 0.0 344.4



#74  
N-ethyl acetate  
Concen: 0.204 ug/l  
RT: 12.390 min Scan# 3878  
Delta R.T. 0.005 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

Tgt Ion: 43 Resp: 3908  
Ion Ratio Lower Upper  
43 100  
70 27.6 33.4 50.0#  
55 13.4 19.3 28.9#  
61 27.4 18.5 27.7

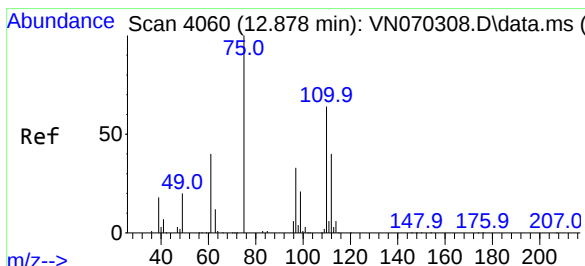
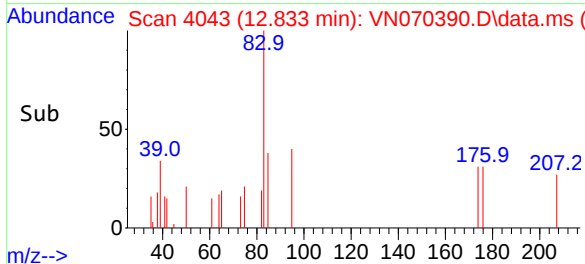
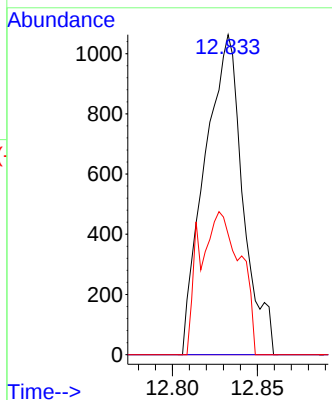
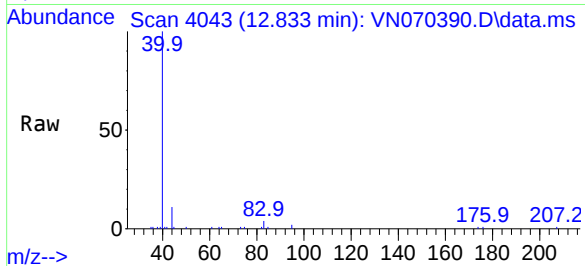




#75  
1,1,2,2-Tetrachloroethane  
Concen: 0.547 ug/l  
RT: 12.833 min Scan# 4040  
Delta R.T. 0.008 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

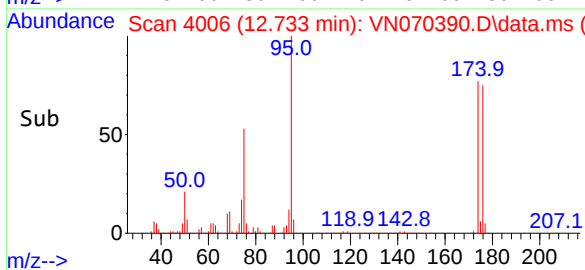
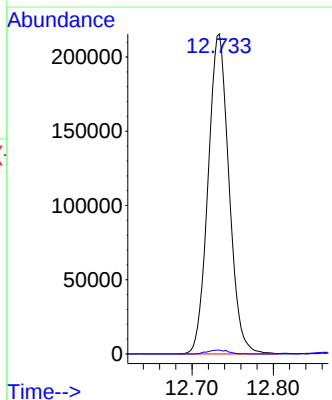
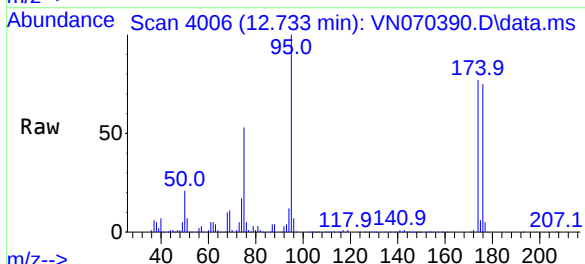
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ClientSampleId :  
VN1230WBL01

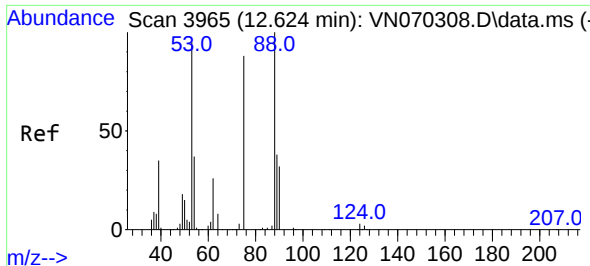
Tgt Ion: 83 Resp: 1663  
Ion Ratio Lower Upper  
83 100  
131 0.0 5.5 16.5#  
85 35.4 32.4 97.2



#76  
1,2,3-Trichloropropane  
Concen: 27.807 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. -0.145 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

Tgt Ion: 75 Resp: 385359  
Ion Ratio Lower Upper  
75 100  
77 1.2 82.6 247.8#

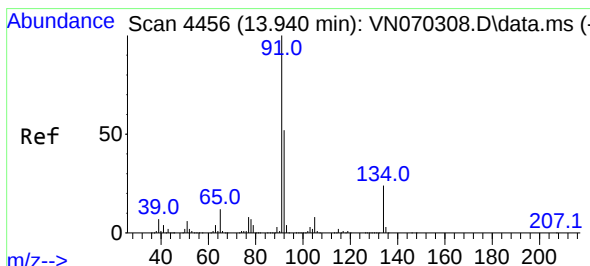
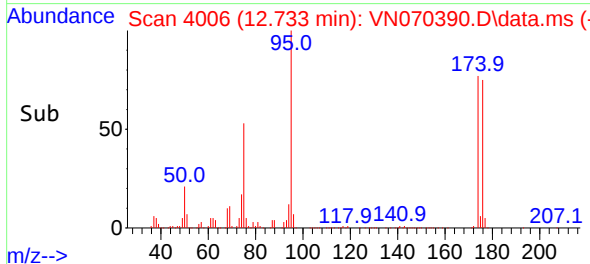
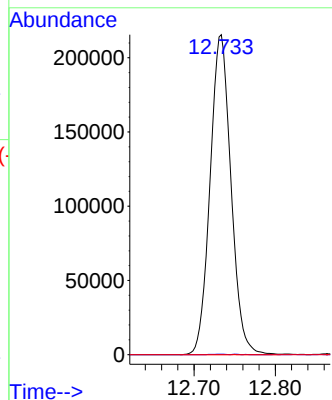
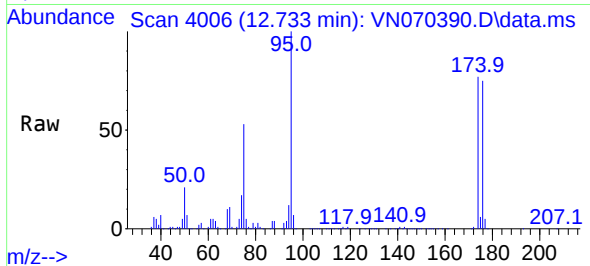




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 95.936 ug/l  
 RT: 12.733 min Scan# 4006  
 Delta R.T. 0.109 min  
 Lab File: VN070390.D  
 Acq: 30 Dec 2021 10:53

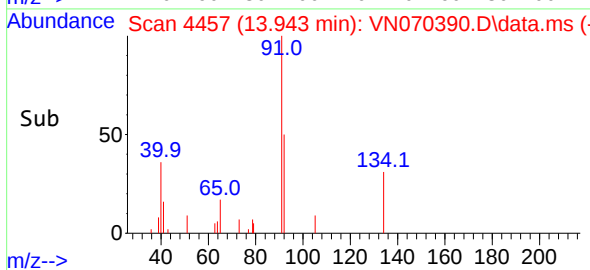
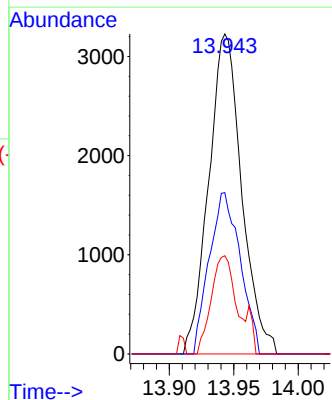
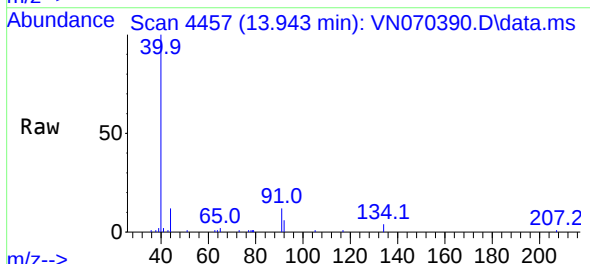
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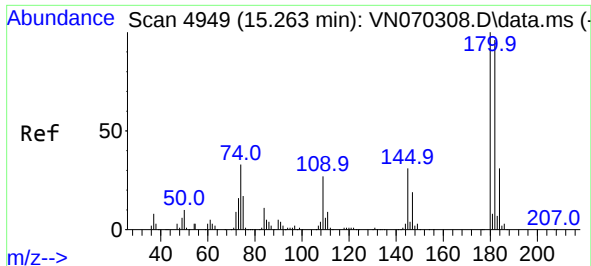
Tgt Ion: 75 Resp: 385359  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 90.5 135.7#  
 89 0.0 38.2 57.4#



#89  
 n-Butylbenzene  
 Concen: 0.201 ug/l  
 RT: 13.943 min Scan# 4457  
 Delta R.T. 0.003 min  
 Lab File: VN070390.D  
 Acq: 30 Dec 2021 10:53

Tgt Ion: 91 Resp: 5743  
 Ion Ratio Lower Upper  
 91 100  
 92 47.4 25.4 76.0  
 134 22.9 13.6 40.8

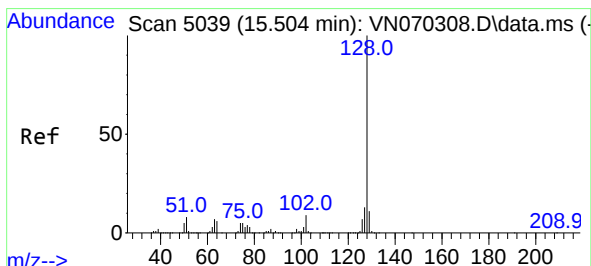
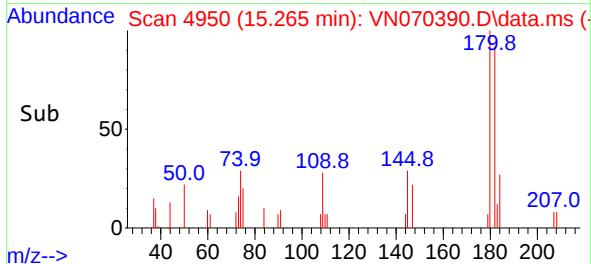
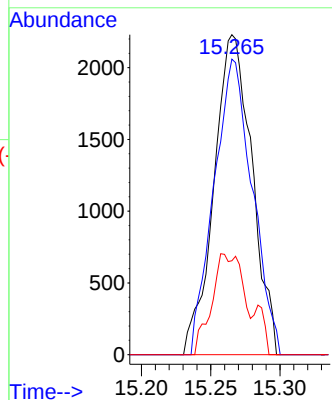
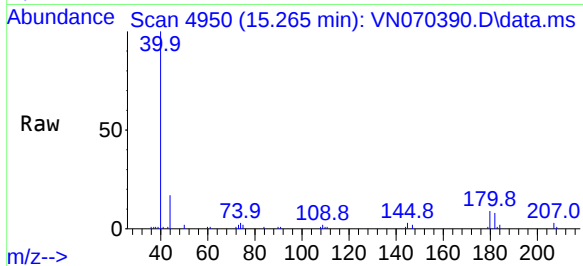




#93  
1,2,4-Trichlorobenzene  
Concen: 0.527 ug/l  
RT: 15.265 min Scan# 4949  
Delta R.T. 0.002 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

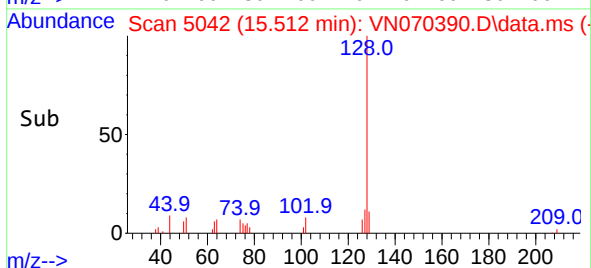
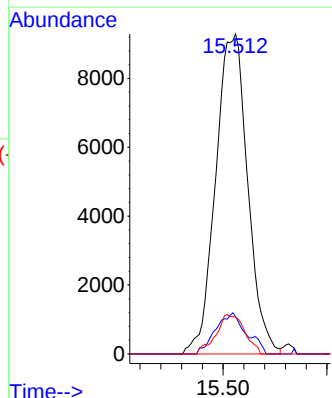
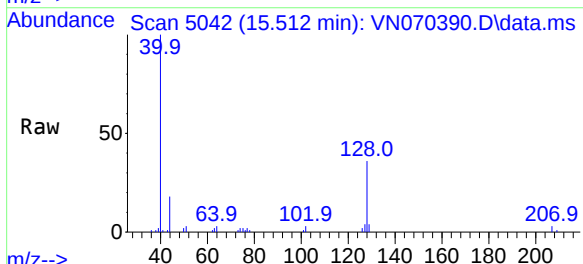
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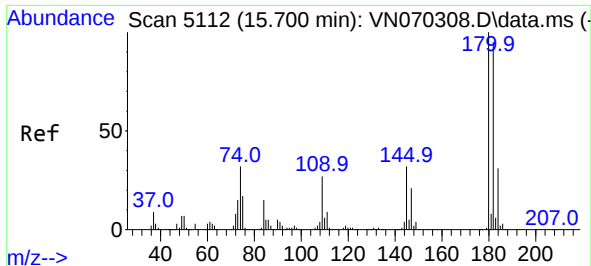
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 4260  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 93.1  | 48.3  | 144.9 |
| 145       | 26.0  | 14.5  | 43.5  |



#95  
Naphthalene  
Concen: 2.655 ug/l  
RT: 15.512 min Scan# 5042  
Delta R.T. 0.008 min  
Lab File: VN070390.D  
Acq: 30 Dec 2021 10:53

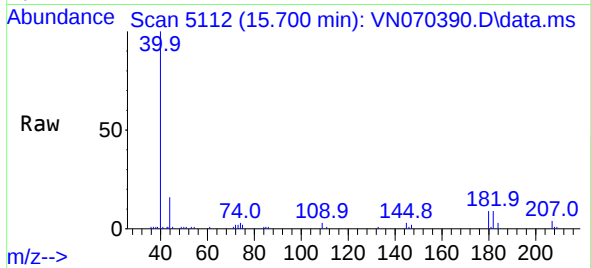
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 19910 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 12.3  | 10.5  | 15.7  |
| 129       | 11.0  | 8.7   | 13.1  |





#96  
 1,2,3-Trichlorobenzene  
 Concen: 1.452 ug/l  
 RT: 15.700 min Scan# 51  
 Delta R.T. -0.000 min  
 Lab File: VN070390.D  
 Acq: 30 Dec 2021 10:53

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1230WBL01



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 99.5  | 47.4  | 142.2 |
| 145     | 35.4  | 15.0  | 45.1  |

