

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121121\  
 Data File : VN070009.D  
 Acq On : 11 Dec 2021 15:36  
 Operator : JC/MD  
 Sample : M4873-12  
 Misc : 7.07g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Dec 12 16:21:36 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 03 08:46:47 2021  
 Response via : Initial Calibration

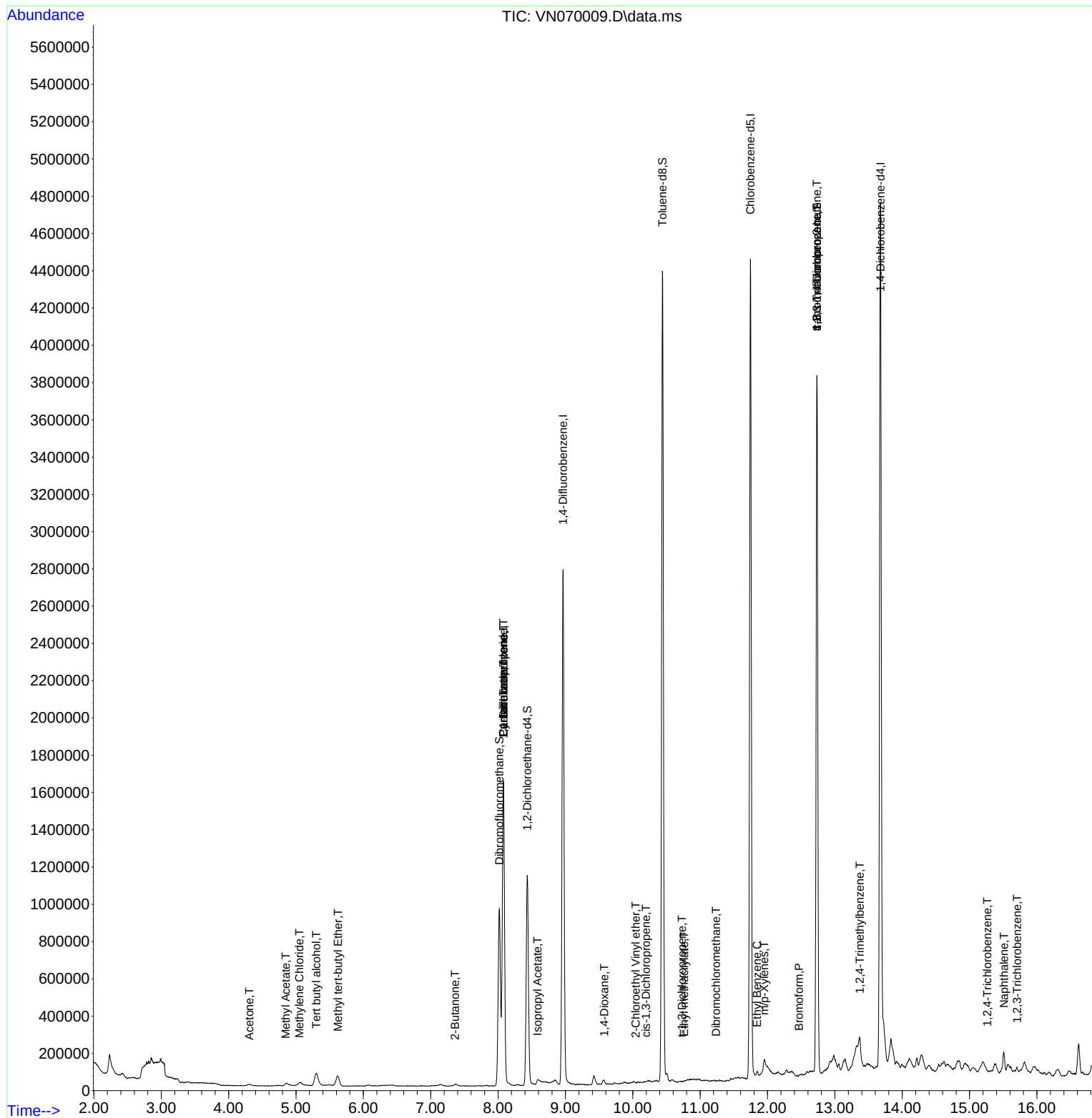
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| -----                         |        |                |          |            |        |          |
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 8.080  | 168            | 1218001  | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.965  | 114            | 2303984  | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.746 | 117            | 2411312  | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.677 | 152            | 1211438  | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.434  | 65             | 969994   | 51.579     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 61 - 141 | Recovery | = 103.160% |        |          |
| 35) Dibromofluoromethane      | 8.018  | 113            | 695611   | 48.200     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 69 - 133 | Recovery | = 96.400%  |        |          |
| 50) Toluene-d8                | 10.440 | 98             | 2963528  | 51.141     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 65 - 126 | Recovery | = 102.280% |        |          |
| 62) 4-Bromofluorobenzene      | 12.733 | 95             | 1266410  | 60.325     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 58 - 135 | Recovery | = 120.640% |        |          |
| Target Compounds              |        |                |          |            |        |          |
|                               |        |                |          |            | Qvalue |          |
| 11) Tert butyl alcohol        | 5.302  | 59             | 75773    | 21.316     | ug/l # | 73       |
| 16) Acetone                   | 4.307  | 43             | 11260    | 0.995      | ug/l   | 94       |
| 18) Methyl Acetate            | 4.848  | 43             | 12202    | 0.357      | ug/l   | 95       |
| 19) Methyl tert-butyl Ether   | 5.623  | 73             | 80742    | 1.790      | ug/l   | 92       |
| 20) Methylene Chloride        | 5.050  | 84             | 4042     | 0.269      | ug/l # | 90       |
| 25) 2-Butanone                | 7.361  | 43             | 6461     | 0.420      | ug/l # | 83       |
| 31) Cyclohexane               | 8.080  | 56             | 33746    | 1.289      | ug/l # | 39       |
| 36) 1,1-Dichloropropene       | 8.077  | 75             | 103351   | 4.712      | ug/l # | 46       |
| 38) Carbon Tetrachloride      | 8.080  | 117            | 125119   | 5.817      | ug/l # | 16       |
| 43) Isopropyl Acetate         | 8.584  | 43             | 18859    | 0.390      | ug/l # | 55       |
| 49) 1,4-Dioxane               | 9.577  | 88             | 204      | 0.504      | ug/l # | 1        |
| 53) t-1,3-Dichloropropene     | 10.730 | 75             | 378      | 2.807      | ug/l # | 16       |
| 54) cis-1,3-Dichloropropene   | 10.196 | 75             | 58       | 2.001      | ug/l # | 1        |
| 56) Ethyl methacrylate        | 10.762 | 69             | 507      | 2.295      | ug/l # | 41       |
| 58) 2-Chloroethyl Vinyl ether | 10.043 | 63             | 83       | 18.398     | ug/l # | 45       |
| 60) Dibromochloromethane      | 11.237 | 129            | 186      | 2.386      | ug/l   | 92       |
| 67) Ethyl Benzene             | 11.846 | 91             | 20327    | 0.229      | ug/l   | 95       |
| 68) m/p-Xylenes               | 11.950 | 106            | 15165    | 0.469      | ug/l # | 72       |
| 71) Bromoform                 | 12.468 | 173            | 400      | 2.757      | ug/l # | 29       |
| 76) 1,2,3-Trichloropropane    | 12.733 | 75             | 707395   | 20.362     | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.733 | 75             | 707395   | 65.290     | ug/l # | 5        |
| 84) 1,2,4-Trimethylbenzene    | 13.369 | 105            | 42311    | 0.512      | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.265 | 180            | 1800     | 2.963      | ug/l   | 58       |
| 95) Naphthalene               | 15.509 | 128            | 97055    | 5.494      | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.705 | 180            | 1744     | 2.521      | ug/l   | 73       |
| -----                         |        |                |          |            |        |          |

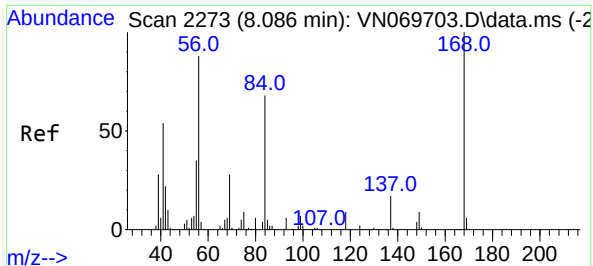
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 7.07g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 11 Sample Multiplier: 1

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MSVOA\_N  
ClientSampleId :

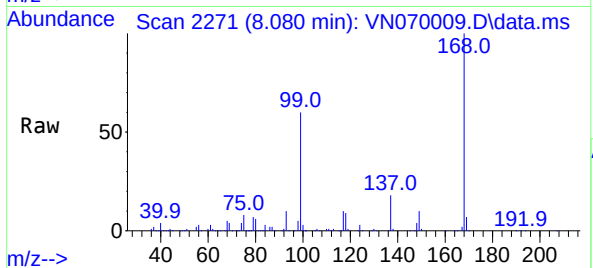
Quant Time: Dec 12 16:21:36 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 03 08:46:47 2021  
Response via : Initial Calibration



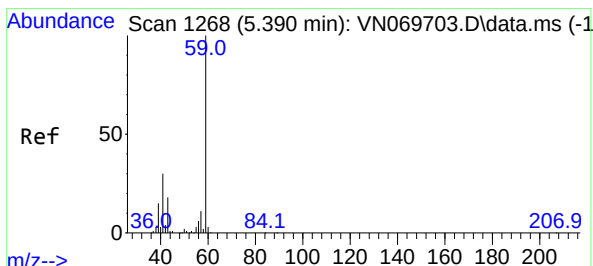
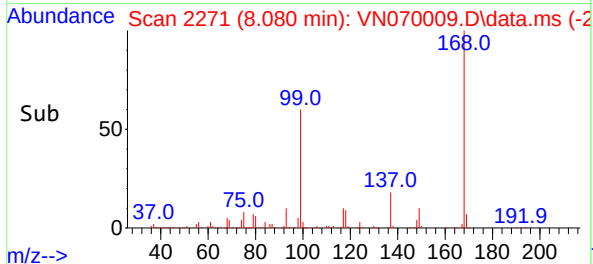
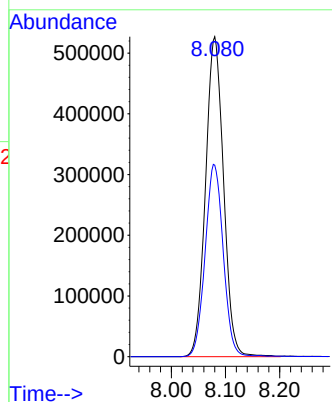


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.080 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

Instrument :  
MSVOA\_N  
ClientSampleId :

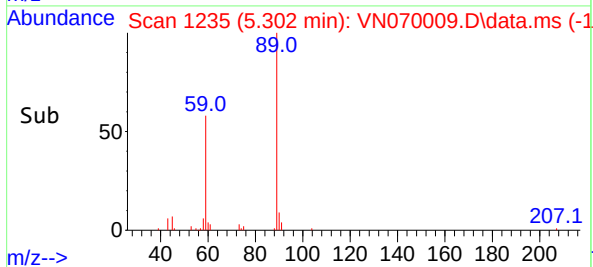
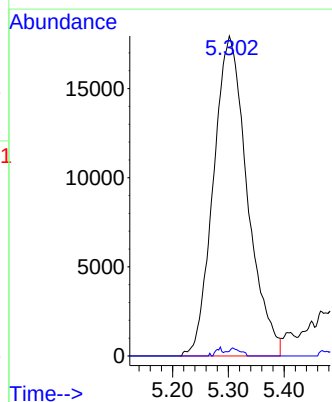
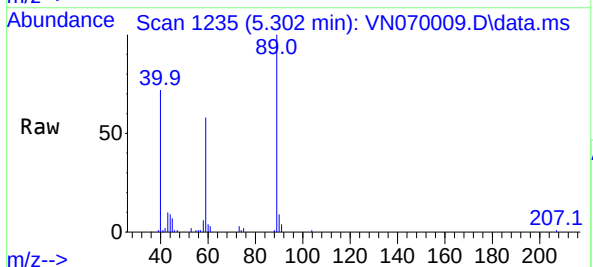


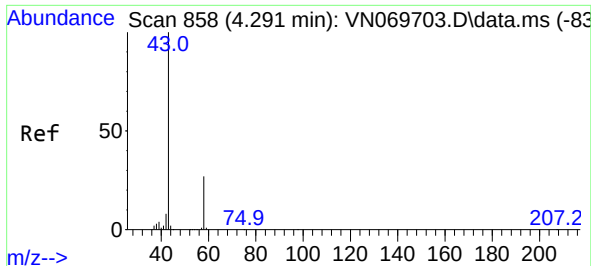
Tgt Ion:168 Resp: 1218001  
Ion Ratio Lower Upper  
168 100  
99 59.8 41.3 61.9



#11  
Tert butyl alcohol  
Concen: 21.316 ug/l  
RT: 5.302 min Scan# 1235  
Delta R.T. -0.089 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

Tgt Ion: 59 Resp: 75773  
Ion Ratio Lower Upper  
59 100  
57 0.8 8.7 13.1#

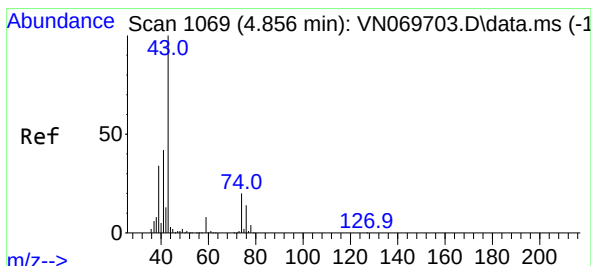
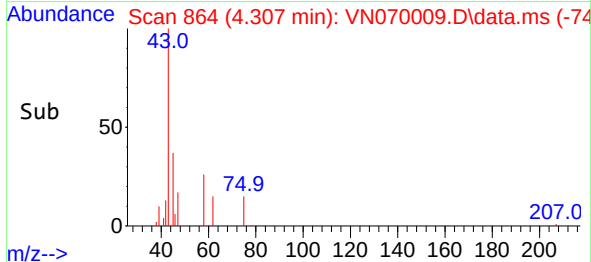
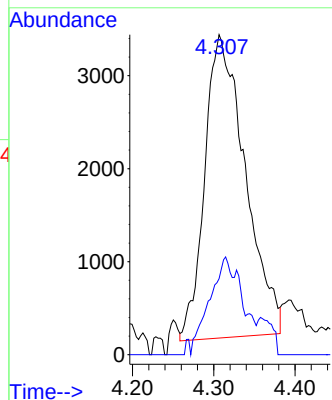
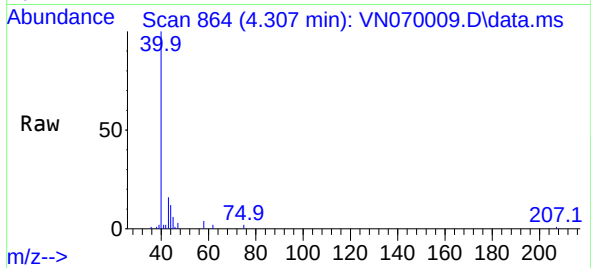




#16  
Acetone  
Concen: 0.995 ug/l  
RT: 4.307 min Scan# 80  
Delta R.T. 0.016 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

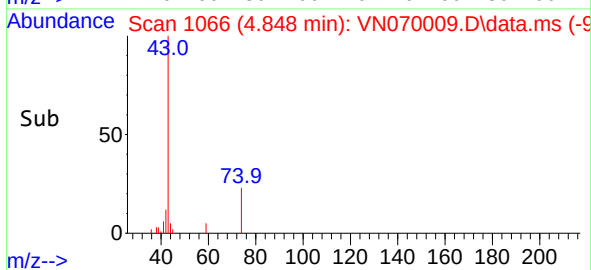
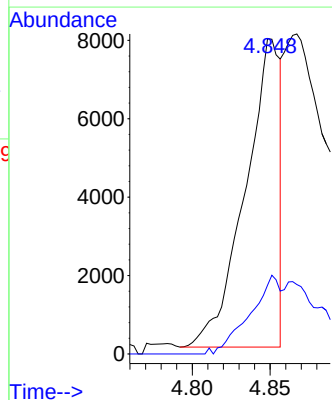
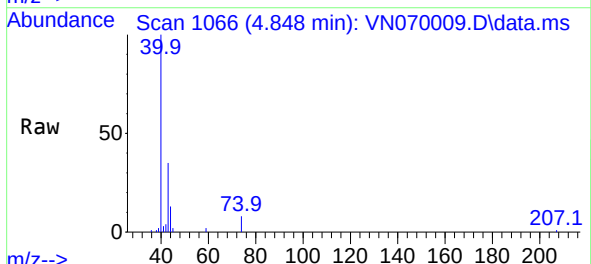
Instrument :  
MSVOA\_N  
ClientSampleId :

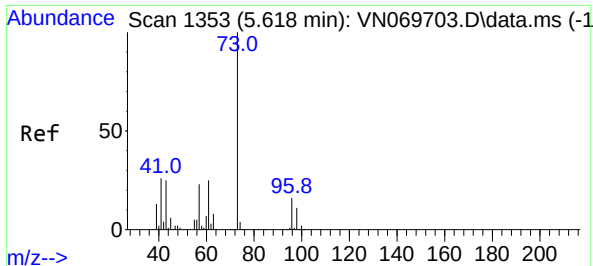
Tgt Ion: 43 Resp: 11260  
Ion Ratio Lower Upper  
43 100  
58 25.5 23.1 34.7



#18  
Methyl Acetate  
Concen: 0.357 ug/l  
RT: 4.848 min Scan# 1066  
Delta R.T. -0.008 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

Tgt Ion: 43 Resp: 12202  
Ion Ratio Lower Upper  
43 100  
74 21.8 19.4 29.2





#19

Methyl tert-butyl Ether

Concen: 1.790 ug/l

RT: 5.623 min Scan# 1141

Delta R.T. 0.005 min

Lab File: VN070009.D

Acq: 11 Dec 2021 15:36

Instrument :

MSVOA\_N

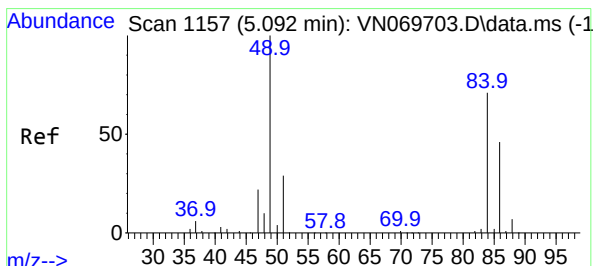
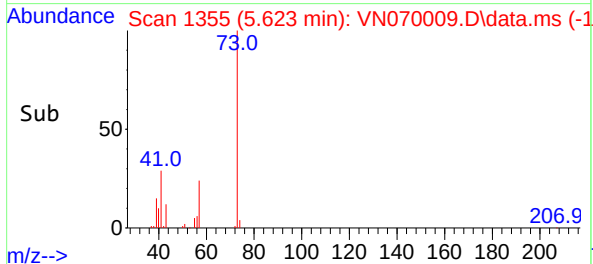
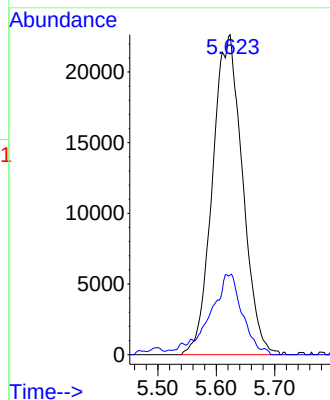
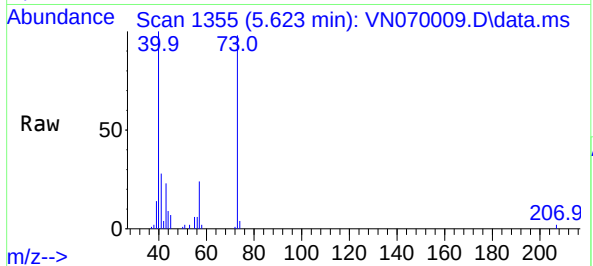
ClientSampleId :

Tgt Ion: 73 Resp: 80742

Ion Ratio Lower Upper

73 100

57 24.9 16.8 25.2



#20

Methylene Chloride

Concen: 0.269 ug/l

RT: 5.050 min Scan# 1141

Delta R.T. -0.043 min

Lab File: VN070009.D

Acq: 11 Dec 2021 15:36

Tgt Ion: 84 Resp: 4042

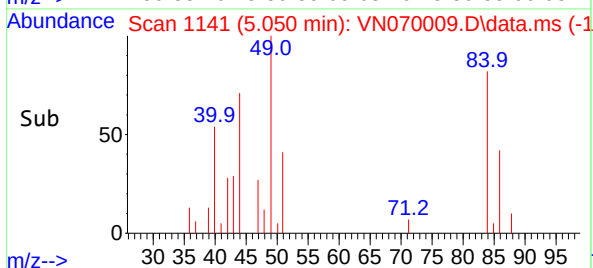
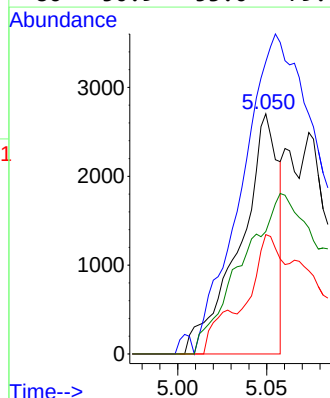
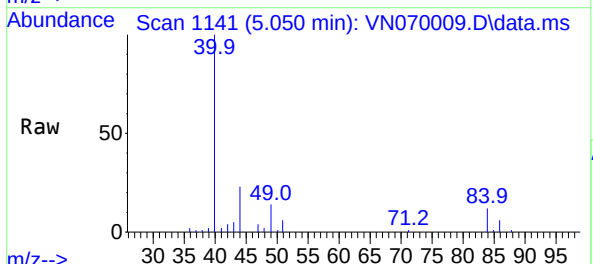
Ion Ratio Lower Upper

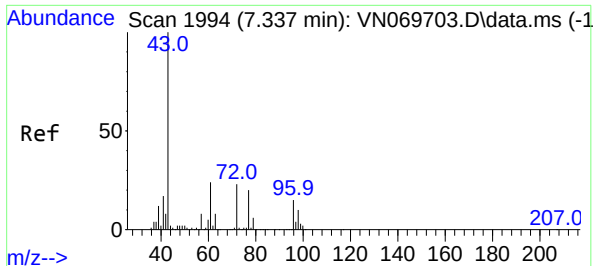
84 100

49 115.6 93.5 140.3

51 49.7 29.4 44.2#

86 50.9 53.0 79.4#





#25

2-Butanone

Concen: 0.420 ug/l

RT: 7.361 min Scan# 20

Delta R.T. 0.024 min

Lab File: VN070009.D

Acq: 11 Dec 2021 15:36

Instrument :

MSVOA\_N

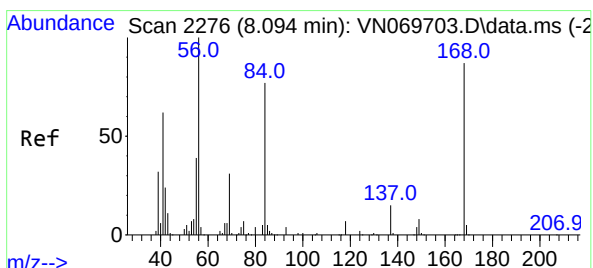
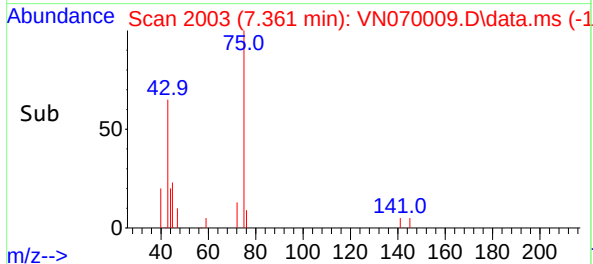
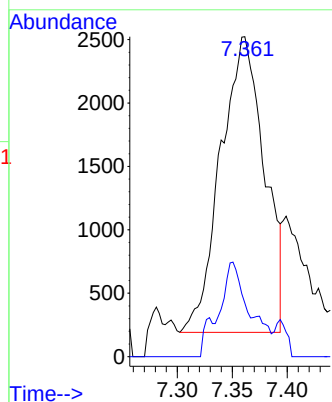
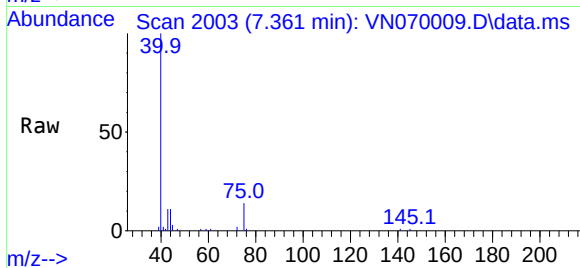
ClientSampleId :

Tgt Ion: 43 Resp: 6461

Ion Ratio Lower Upper

43 100

72 18.1 21.7 32.5#



#31

Cyclohexane

Concen: 1.289 ug/l

RT: 8.080 min Scan# 2271

Delta R.T. -0.013 min

Lab File: VN070009.D

Acq: 11 Dec 2021 15:36

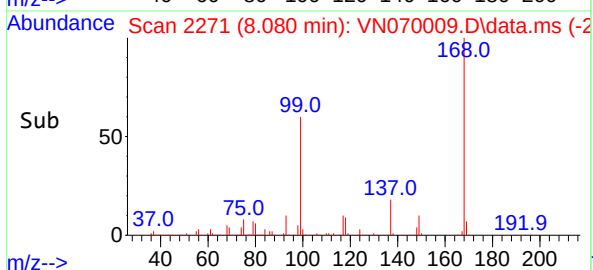
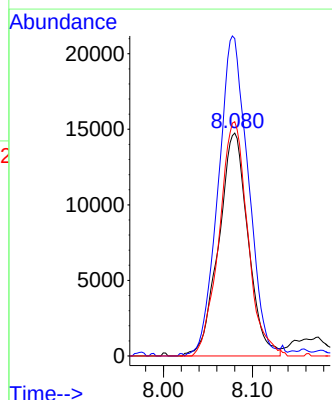
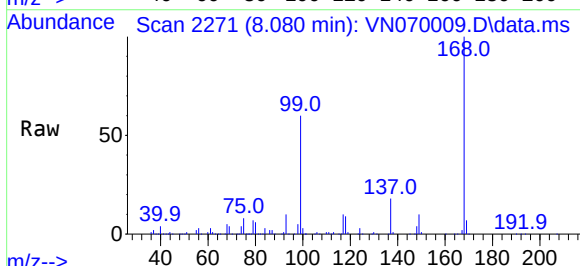
Tgt Ion: 56 Resp: 33746

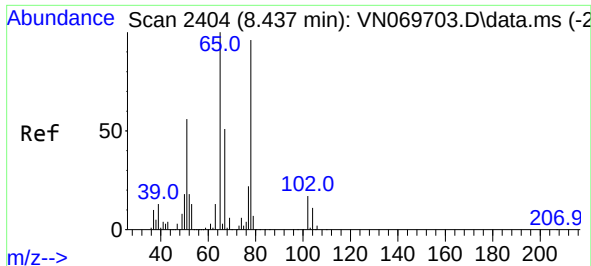
Ion Ratio Lower Upper

56 100

69 141.3 27.1 40.7#

84 105.1 73.4 110.0





#33

1,2-Dichloroethane-d4

Concen: 51.579 ug/l

RT: 8.434 min Scan# 24

Delta R.T. -0.003 min

Lab File: VN070009.D

Acq: 11 Dec 2021 15:36

Instrument :

MSVOA\_N

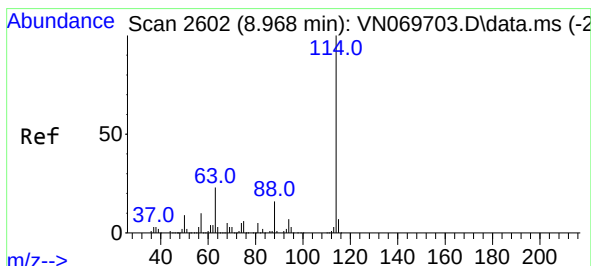
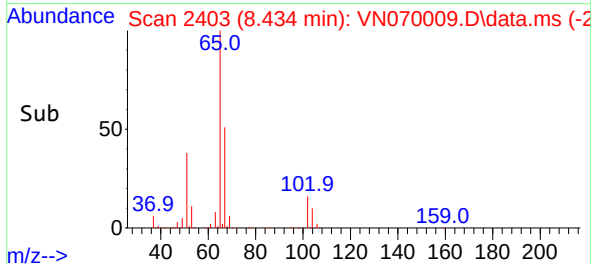
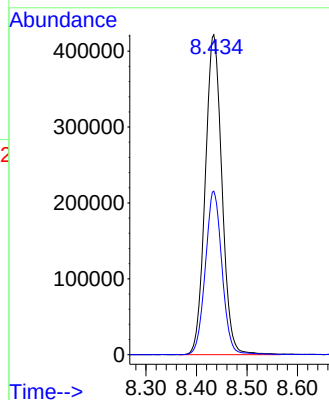
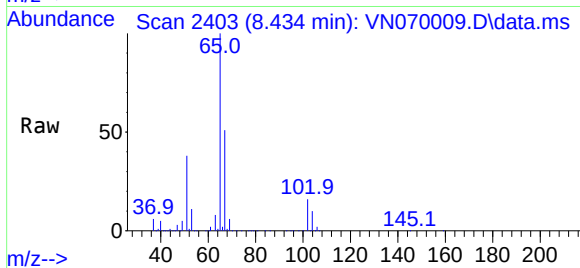
ClientSampleId :

Tgt Ion: 65 Resp: 969994

Ion Ratio Lower Upper

65 100

67 50.8 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.965 min Scan# 2601

Delta R.T. -0.003 min

Lab File: VN070009.D

Acq: 11 Dec 2021 15:36

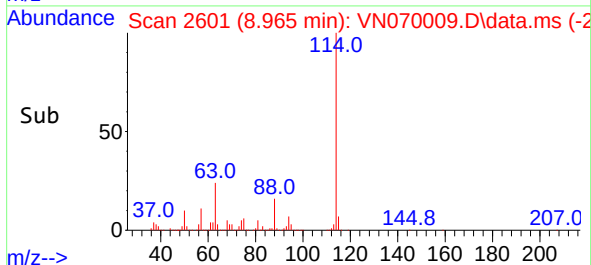
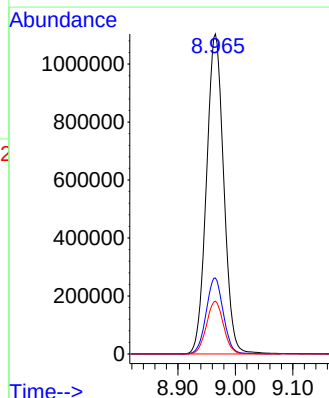
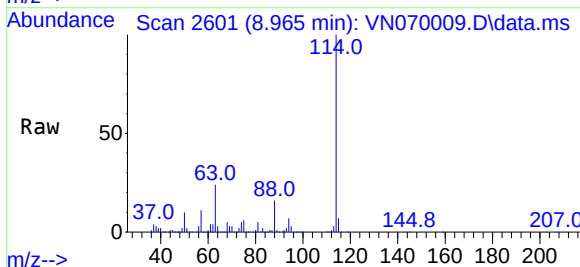
Tgt Ion: 114 Resp: 2303984

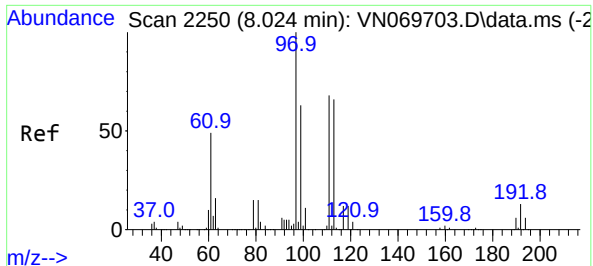
Ion Ratio Lower Upper

114 100

63 23.7 0.0 37.8

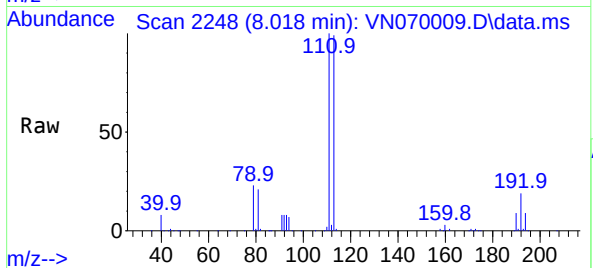
88 16.5 0.0 27.4



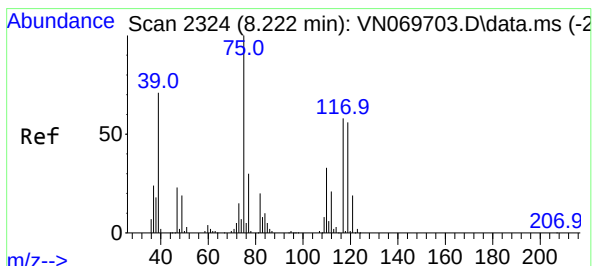
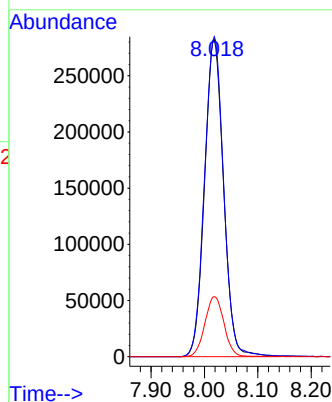
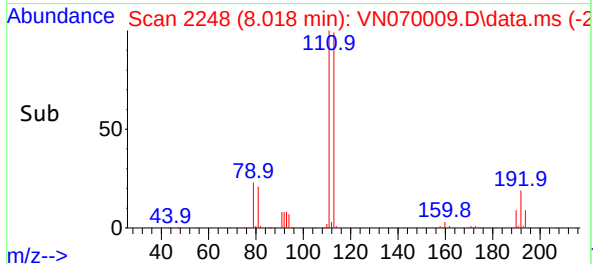


#35  
Dibromofluoromethane  
Concen: 48.200 ug/l  
RT: 8.018 min Scan# 211  
Delta R.T. -0.005 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

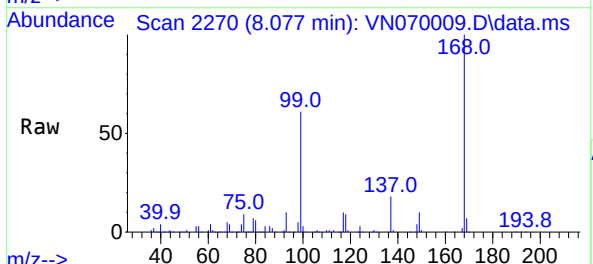
Instrument :  
MSVOA\_N  
ClientSampleId :



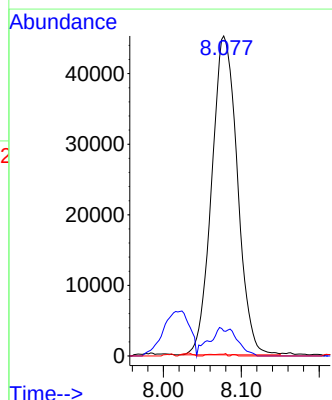
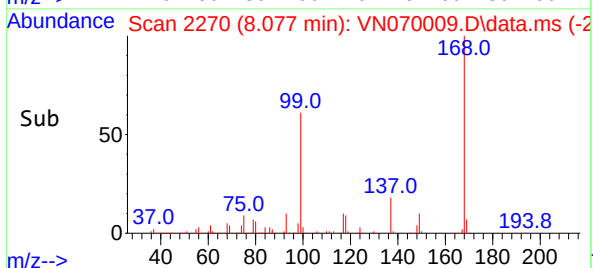
Tgt Ion:113 Resp: 695611  
Ion Ratio Lower Upper  
113 100  
111 101.8 82.2 123.2  
192 19.0 16.9 25.3



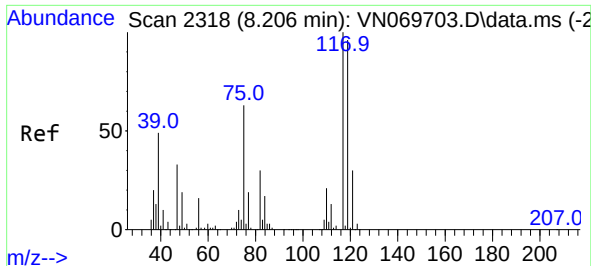
#36  
1,1-Dichloropropene  
Concen: 4.712 ug/l  
RT: 8.077 min Scan# 2270  
Delta R.T. -0.145 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36



Tgt Ion: 75 Resp: 103351  
Ion Ratio Lower Upper  
75 100  
110 5.7 18.4 55.2#  
77 0.1 24.4 36.6#

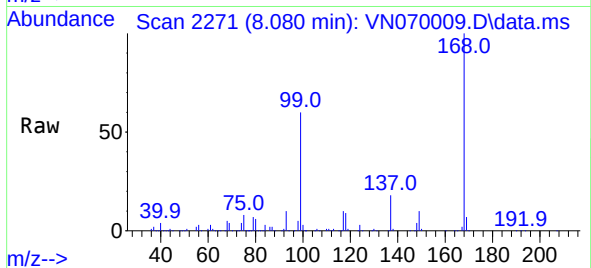




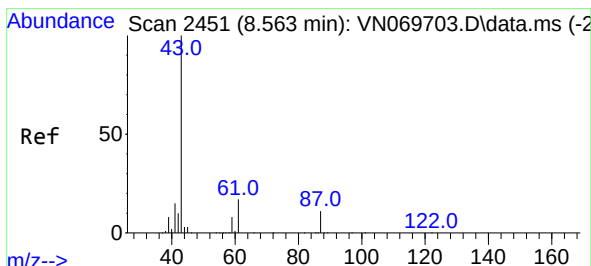
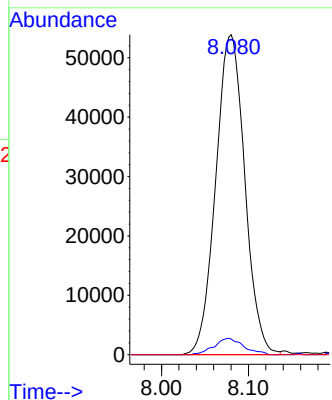
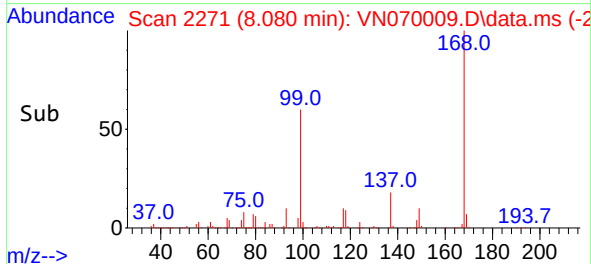


#38  
Carbon Tetrachloride  
Concen: 5.817 ug/l  
RT: 8.080 min Scan# 2119  
Delta R.T. -0.126 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

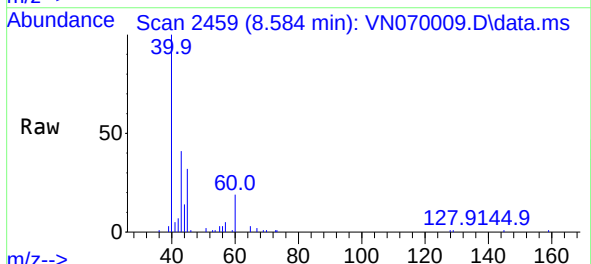
Instrument :  
MSVOA\_N  
ClientSampleId :



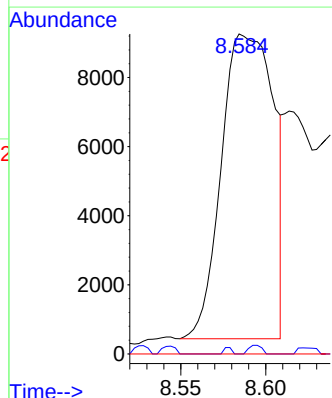
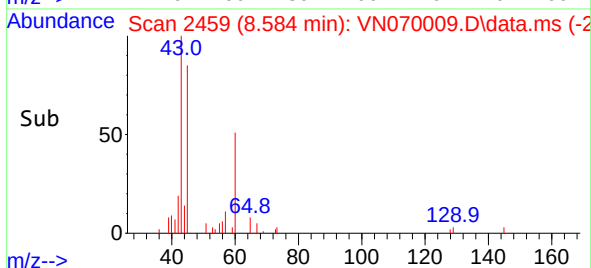
Tgt Ion:117 Resp: 125119  
Ion Ratio Lower Upper  
117 100  
119 4.9 76.1 114.1#  
121 0.0 24.2 36.2#

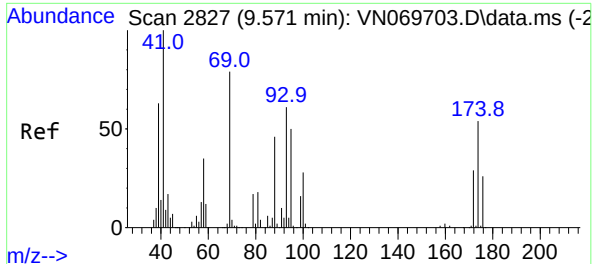


#43  
Isopropyl Acetate  
Concen: 0.390 ug/l  
RT: 8.584 min Scan# 2459  
Delta R.T. 0.021 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36



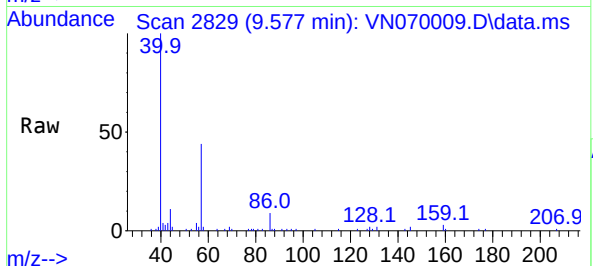
Tgt Ion: 43 Resp: 18859  
Ion Ratio Lower Upper  
43 100  
61 0.0 20.4 30.6#  
87 0.0 11.2 16.8#



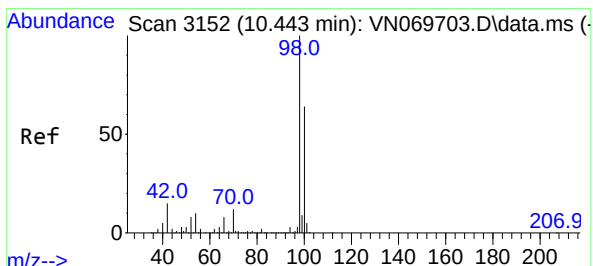
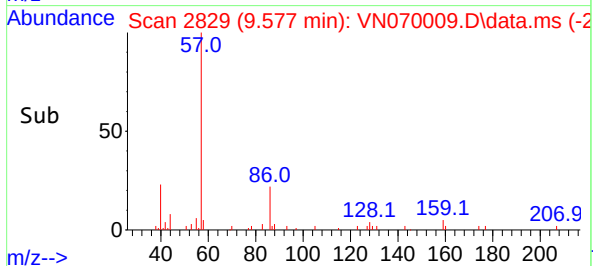
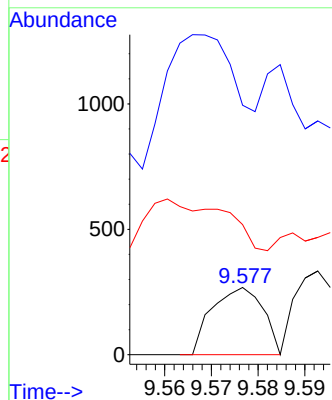


#49  
1,4-Dioxane  
Concen: 0.504 ug/l  
RT: 9.577 min Scan# 21  
Delta R.T. 0.005 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

Instrument :  
MSVOA\_N  
ClientSampleId :

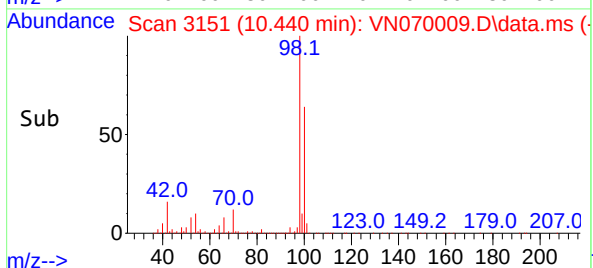
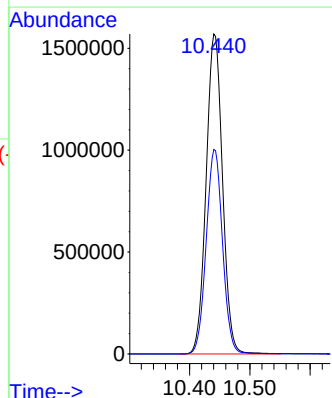
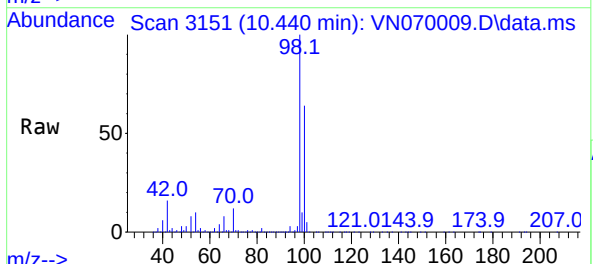


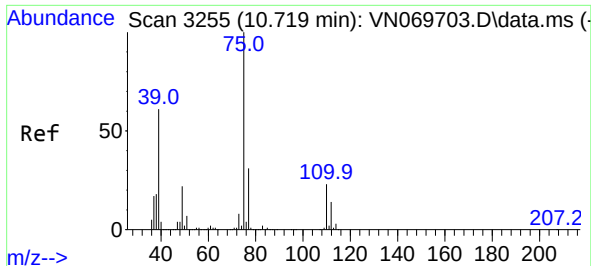
Tgt Ion: 88 Resp: 204  
Ion Ratio Lower Upper  
88 100  
43 0.0 23.4 35.2#  
58 601.5 50.6 75.8#



#50  
Toluene-d8  
Concen: 51.141 ug/l  
RT: 10.440 min Scan# 3151  
Delta R.T. -0.003 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

Tgt Ion: 98 Resp: 2963528  
Ion Ratio Lower Upper  
98 100  
100 63.7 50.4 75.6

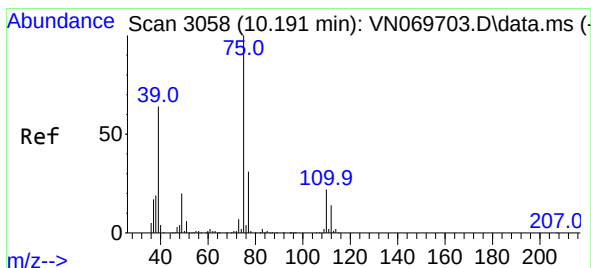
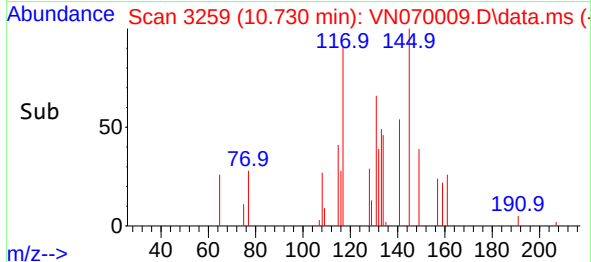
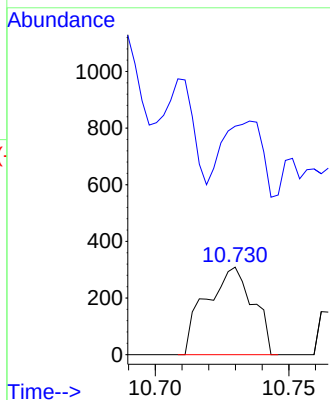
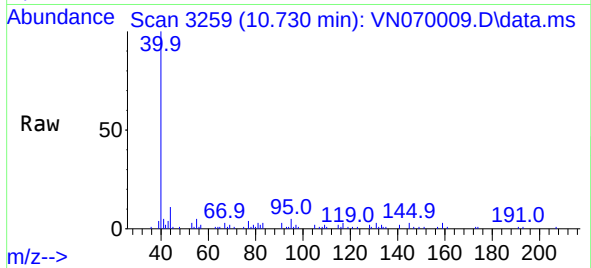




#53  
t-1,3-Dichloropropene  
Concen: 2.807 ug/l  
RT: 10.730 min Scan# 31  
Delta R.T. 0.011 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

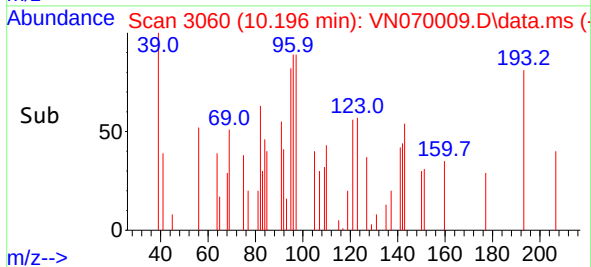
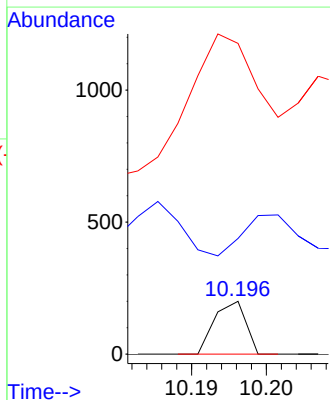
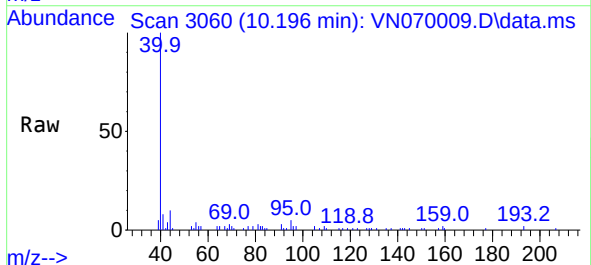
Instrument :  
MSVOA\_N  
ClientSampleId :

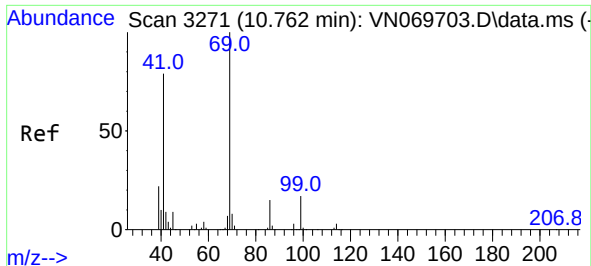
Tgt Ion: 75 Resp: 378  
Ion Ratio Lower Upper  
75 100  
77 78.6 25.6 38.4#



#54  
cis-1,3-Dichloropropene  
Concen: 2.001 ug/l  
RT: 10.196 min Scan# 3060  
Delta R.T. 0.005 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

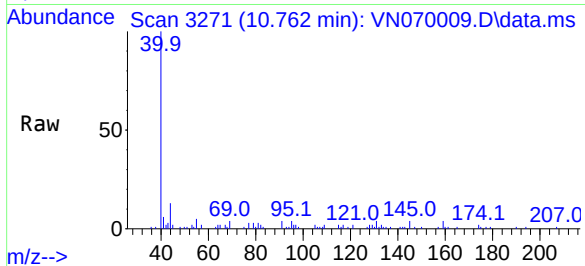
Tgt Ion: 75 Resp: 58  
Ion Ratio Lower Upper  
75 100  
77 0.0 26.4 39.6#  
39 151.5 42.5 63.7#



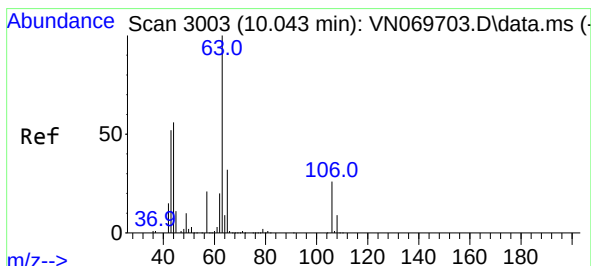
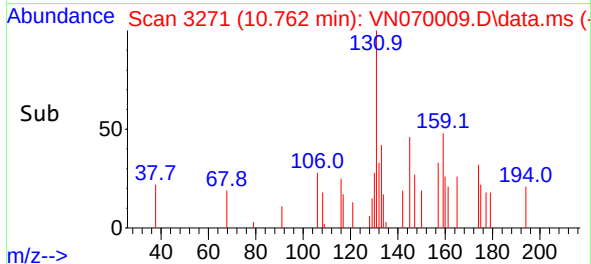
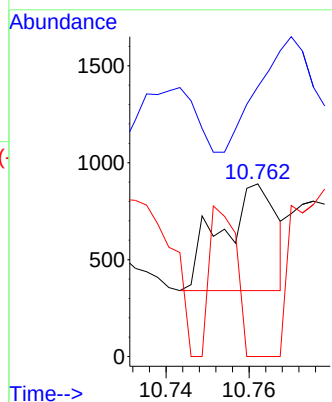


#56  
Ethyl methacrylate  
Concen: 2.295 ug/l  
RT: 10.762 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

Instrument :  
MSVOA\_N  
ClientSampleId :

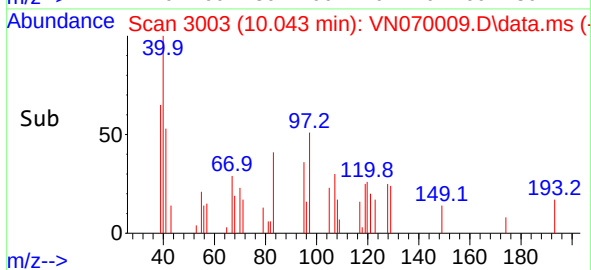
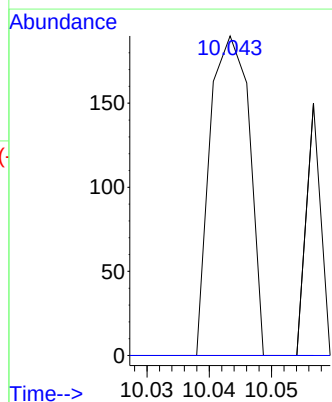
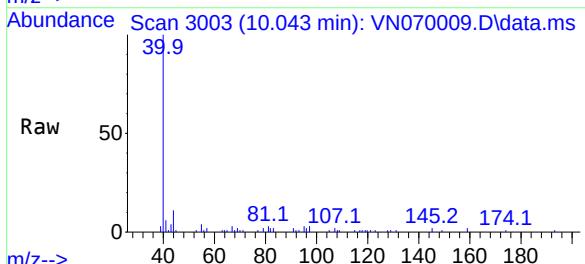


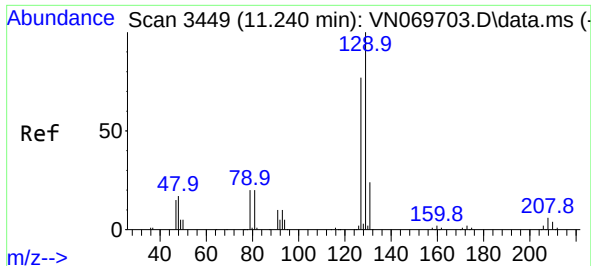
Tgt Ion: 69 Resp: 507  
Ion Ratio Lower Upper  
69 100  
41 106.1 51.4 77.0#  
39 0.0 34.6 52.0#



#58  
2-Chloroethyl Vinyl ether  
Concen: 18.398 ug/l  
RT: 10.043 min Scan# 3003  
Delta R.T. 0.000 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

Tgt Ion: 63 Resp: 83  
Ion Ratio Lower Upper  
63 100  
106 0.0 23.9 35.9#

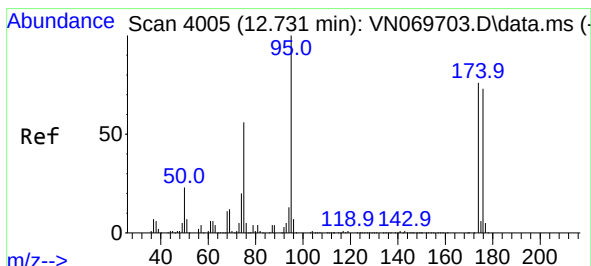
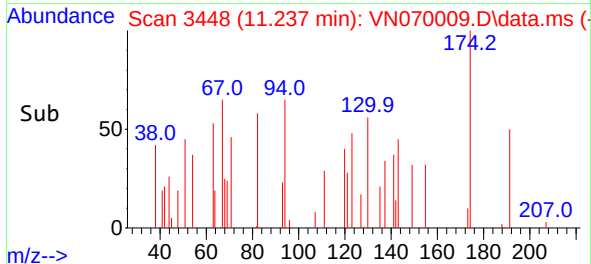
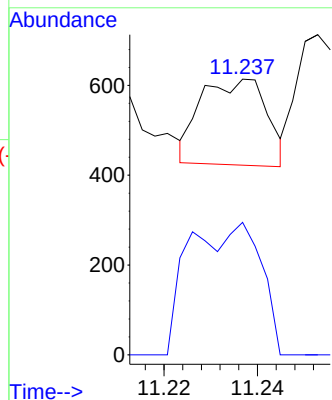
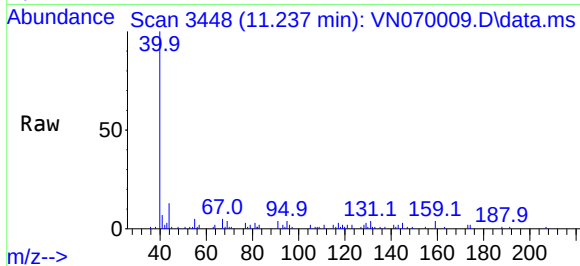




#60  
Dibromochloromethane  
Concen: 2.386 ug/l  
RT: 11.237 min Scan# 3449  
Delta R.T. -0.003 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

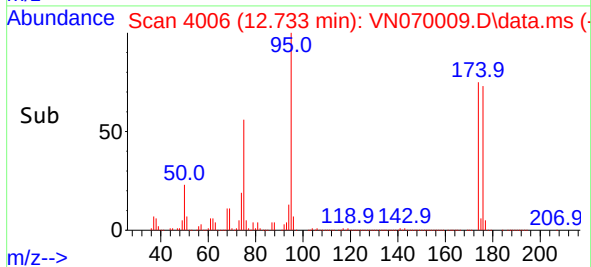
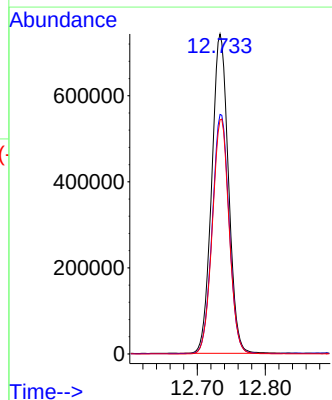
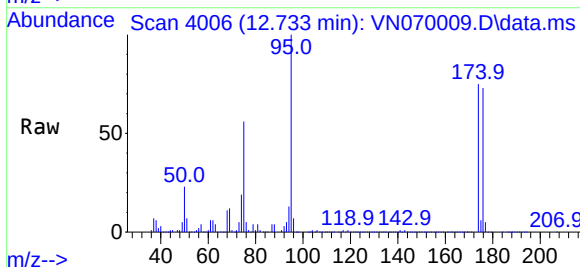
Instrument :  
MSVOA\_N  
ClientSampleId :

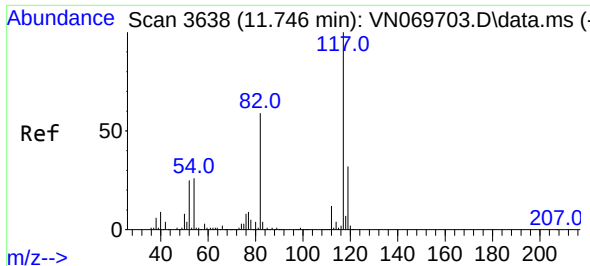
Tgt Ion:129 Resp: 186  
Ion Ratio Lower Upper  
129 100  
127 84.4 38.6 116.0



#62  
4-Bromofluorobenzene  
Concen: 60.325 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.002 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

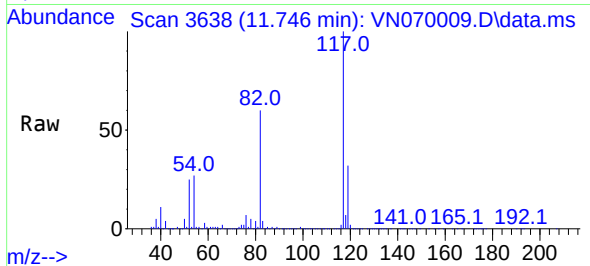
Tgt Ion: 95 Resp: 1266410  
Ion Ratio Lower Upper  
95 100  
174 75.2 0.0 187.2  
176 73.7 0.0 181.4



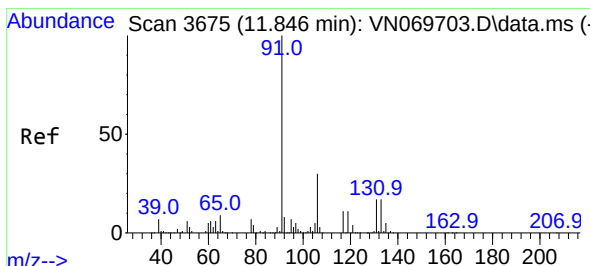
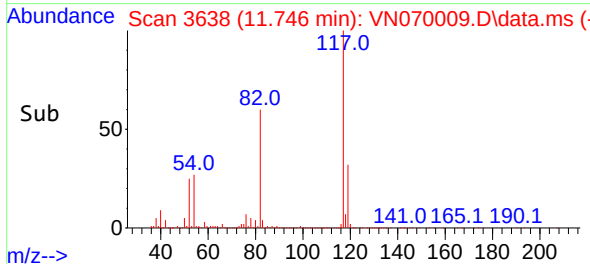
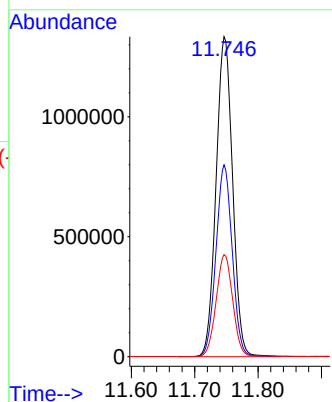


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.746 min Scan# 3638  
Delta R.T. 0.000 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

Instrument :  
MSVOA\_N  
ClientSampleId :

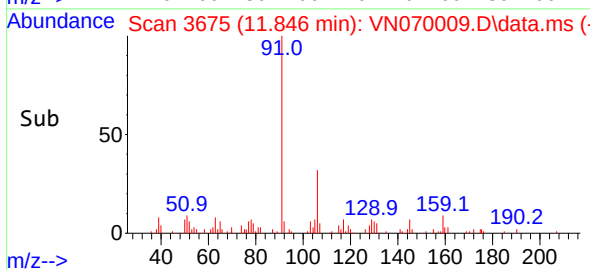
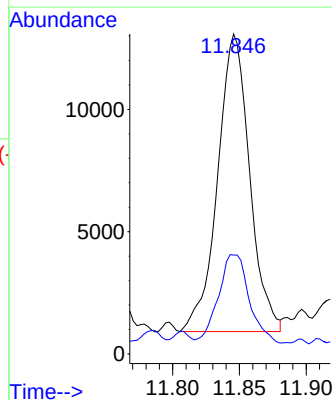
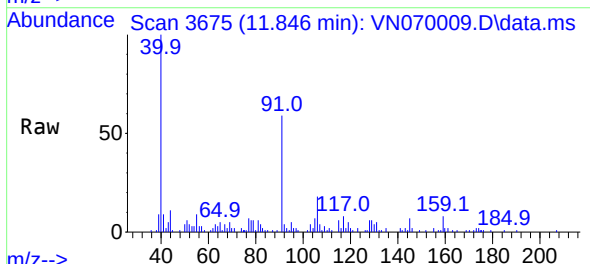


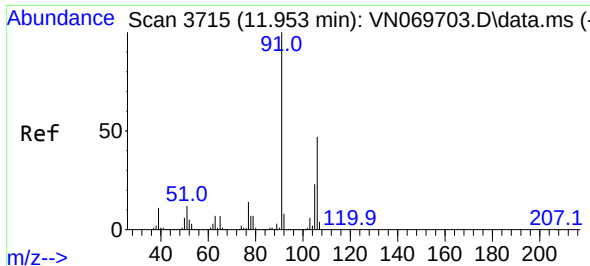
Tgt Ion:117 Resp: 2411312  
Ion Ratio Lower Upper  
117 100  
82 59.9 42.4 63.6  
119 31.9 25.4 38.2



#67  
Ethyl Benzene  
Concen: 0.229 ug/l  
RT: 11.846 min Scan# 3675  
Delta R.T. -0.000 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

Tgt Ion: 91 Resp: 20327  
Ion Ratio Lower Upper  
91 100  
106 29.6 25.7 38.5

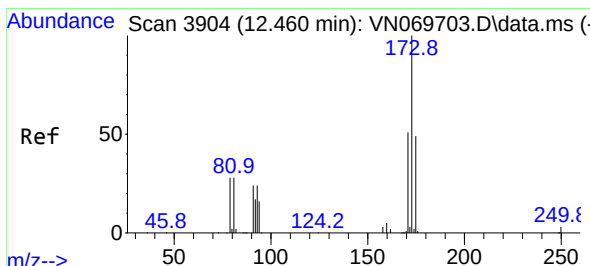
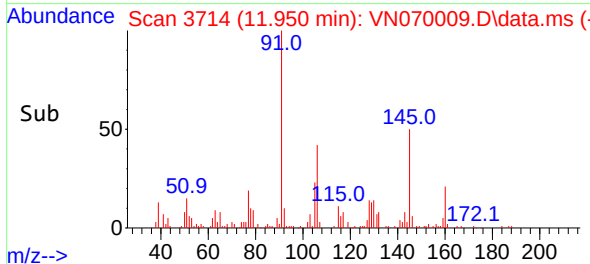
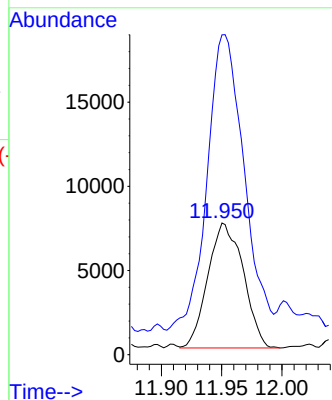
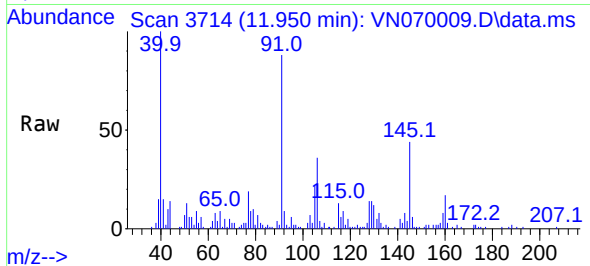




#68  
m/p-Xylenes  
Concen: 0.469 ug/l  
RT: 11.950 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

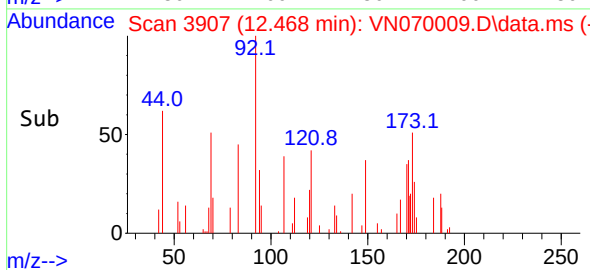
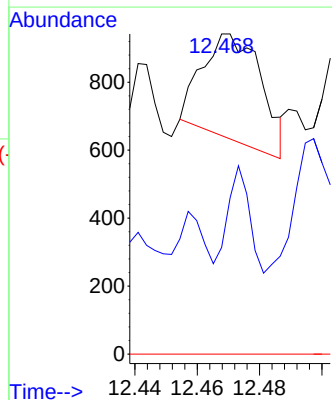
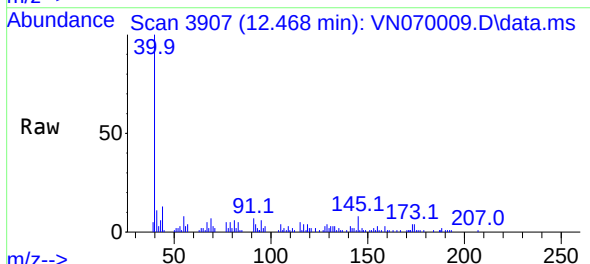
Instrument :  
MSVOA\_N  
ClientSampleId :

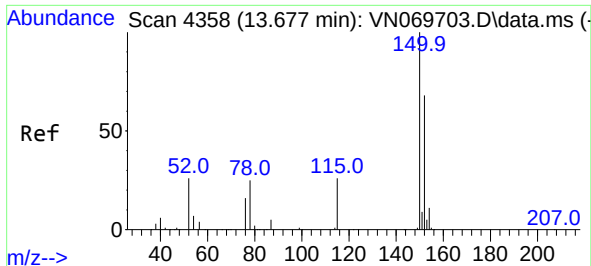
Tgt Ion:106 Resp: 15165  
Ion Ratio Lower Upper  
106 100  
91 243.6 160.6 240.8#



#71  
Bromoform  
Concen: 2.757 ug/l  
RT: 12.468 min Scan# 3907  
Delta R.T. 0.008 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

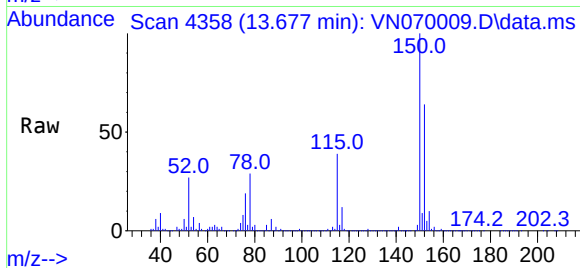
Tgt Ion:173 Resp: 400  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.2 72.6#  
254 0.0 0.0 0.0



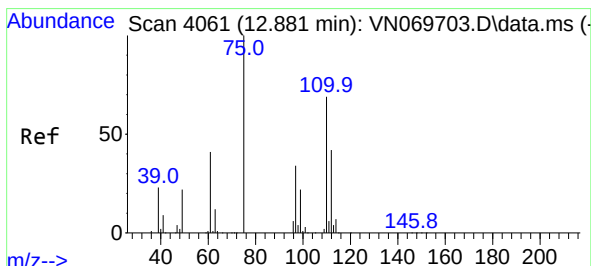
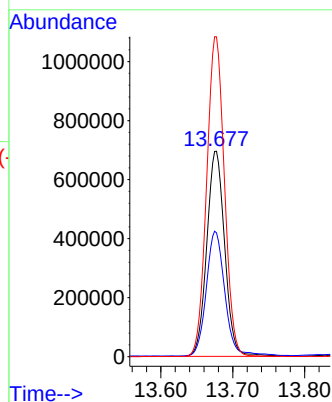
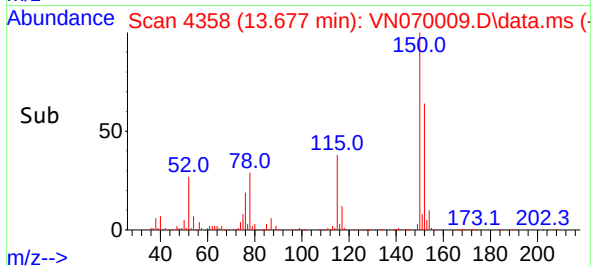


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.677 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

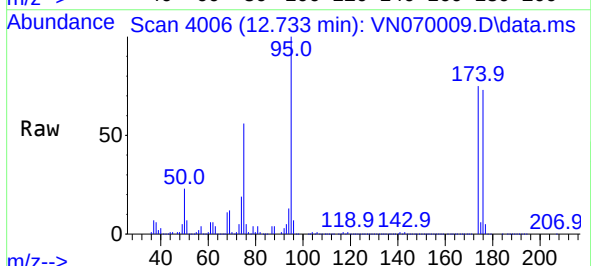
Instrument :  
MSVOA\_N  
ClientSampleId :



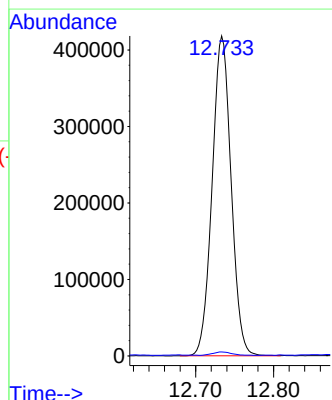
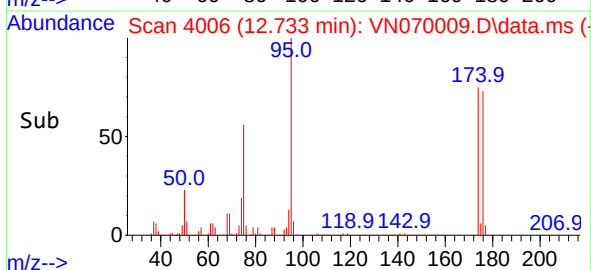
Tgt Ion:152 Resp: 1211438  
Ion Ratio Lower Upper  
152 100  
115 63.2 27.5 82.5  
150 153.8 0.0 344.4



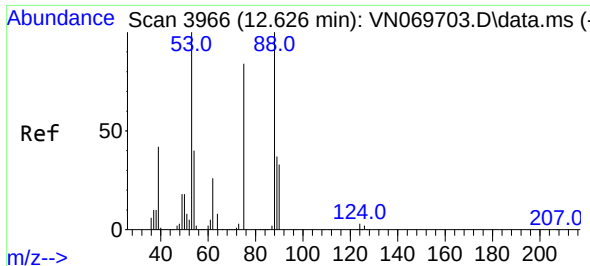
#76  
1,2,3-Trichloropropane  
Concen: 20.362 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. -0.148 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36



Tgt Ion: 75 Resp: 707395  
Ion Ratio Lower Upper  
75 100  
77 1.0 82.6 247.8#

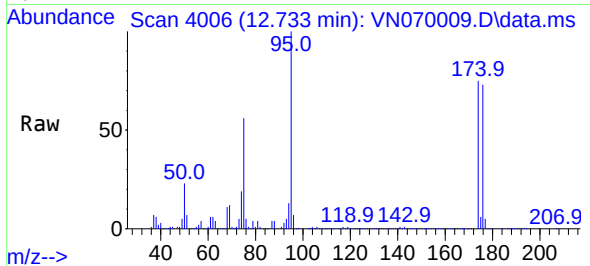




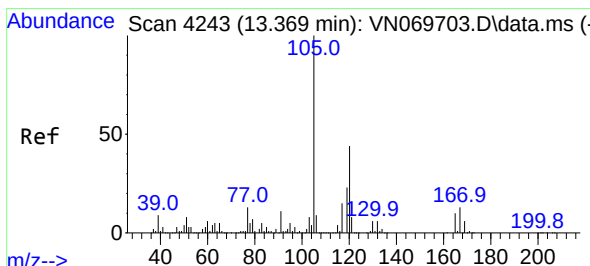
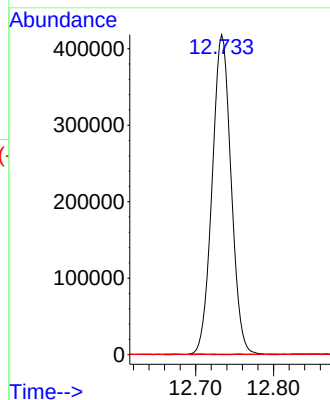
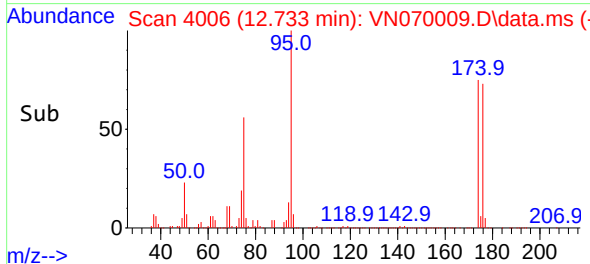


#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 65.290 ug/l  
 RT: 12.733 min Scan# 4006  
 Delta R.T. 0.107 min  
 Lab File: VN070009.D  
 Acq: 11 Dec 2021 15:36

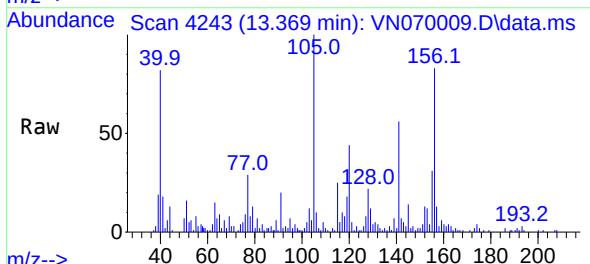
Instrument :  
 MSVOA\_N  
 ClientSampleId :



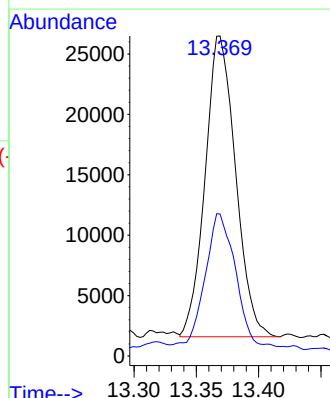
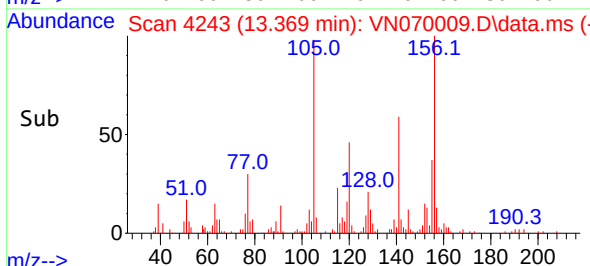
Tgt Ion: 75 Resp: 707395  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 38.2 57.4#

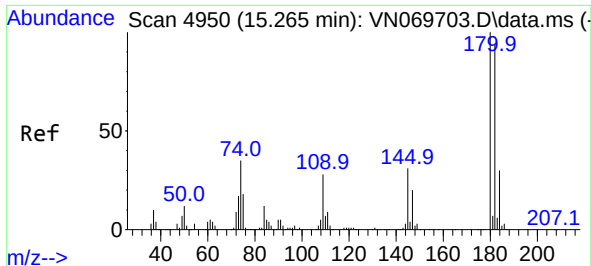


#84  
 1,2,4-Trimethylbenzene  
 Concen: 0.512 ug/l  
 RT: 13.369 min Scan# 4243  
 Delta R.T. -0.000 min  
 Lab File: VN070009.D  
 Acq: 11 Dec 2021 15:36



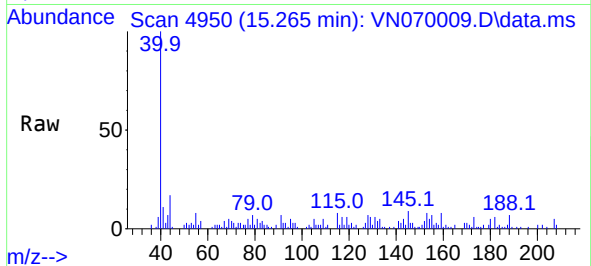
Tgt Ion: 105 Resp: 42311  
 Ion Ratio Lower Upper  
 105 100  
 120 44.0 22.8 68.4



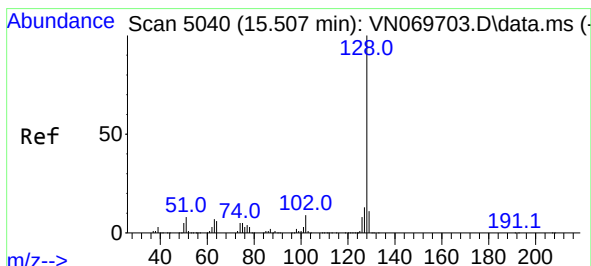
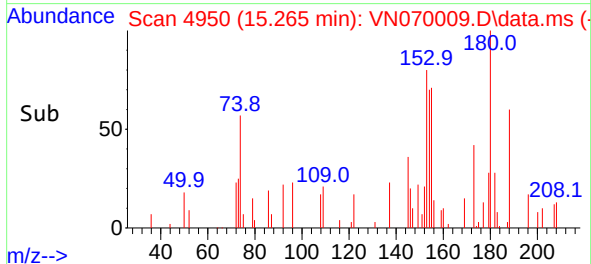
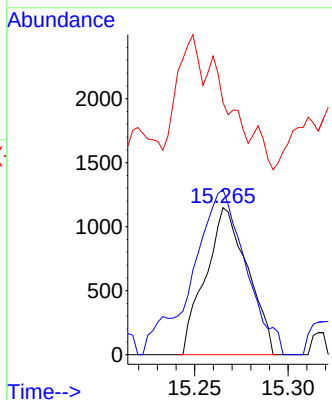


#93  
1,2,4-Trichlorobenzene  
Concen: 2.963 ug/l  
RT: 15.265 min Scan# 4950  
Delta R.T. 0.000 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

Instrument :  
MSVOA\_N  
ClientSampleId :

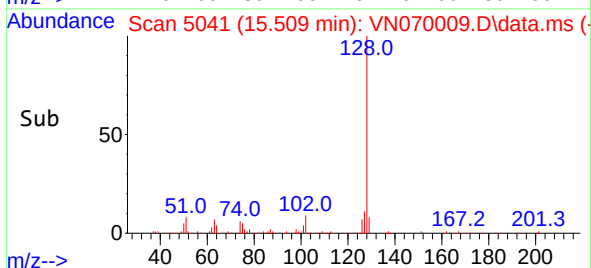
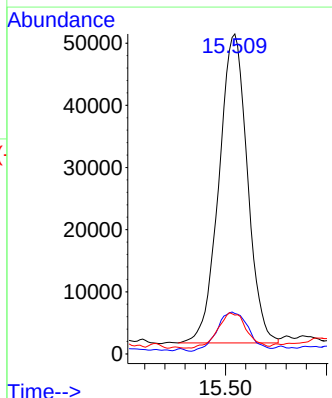
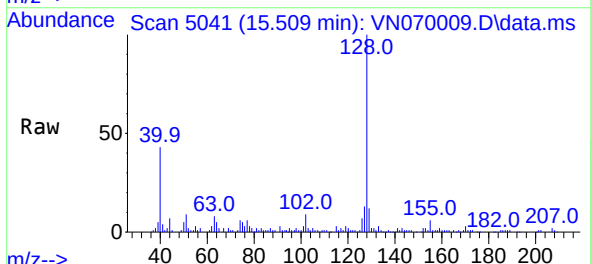


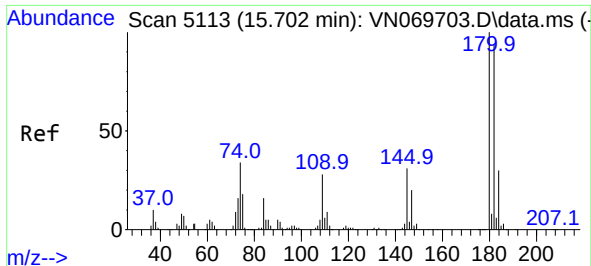
Tgt Ion:180 Resp: 1800  
Ion Ratio Lower Upper  
180 100  
182 142.8 48.3 144.9  
145 42.3 14.5 43.5



#95  
Naphthalene  
Concen: 5.494 ug/l  
RT: 15.509 min Scan# 5041  
Delta R.T. 0.002 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

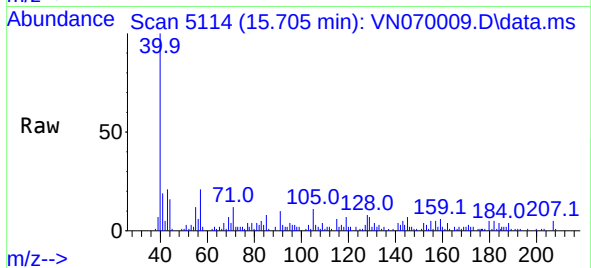
Tgt Ion:128 Resp: 97055  
Ion Ratio Lower Upper  
128 100  
127 14.2 10.5 15.7  
129 11.4 8.7 13.1





#96  
1,2,3-Trichlorobenzene  
Concen: 2.521 ug/l  
RT: 15.705 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VN070009.D  
Acq: 11 Dec 2021 15:36

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion:180 Resp: 1744  
Ion Ratio Lower Upper  
180 100  
182 121.6 47.4 142.2  
145 16.9 15.0 45.1

