

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120921\  
 Data File : VN069915.D  
 Acq On : 9 Dec 2021 16:46  
 Operator : JC/MD  
 Sample : M4940-09  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-25

Quant Time: Dec 10 06:17:29 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

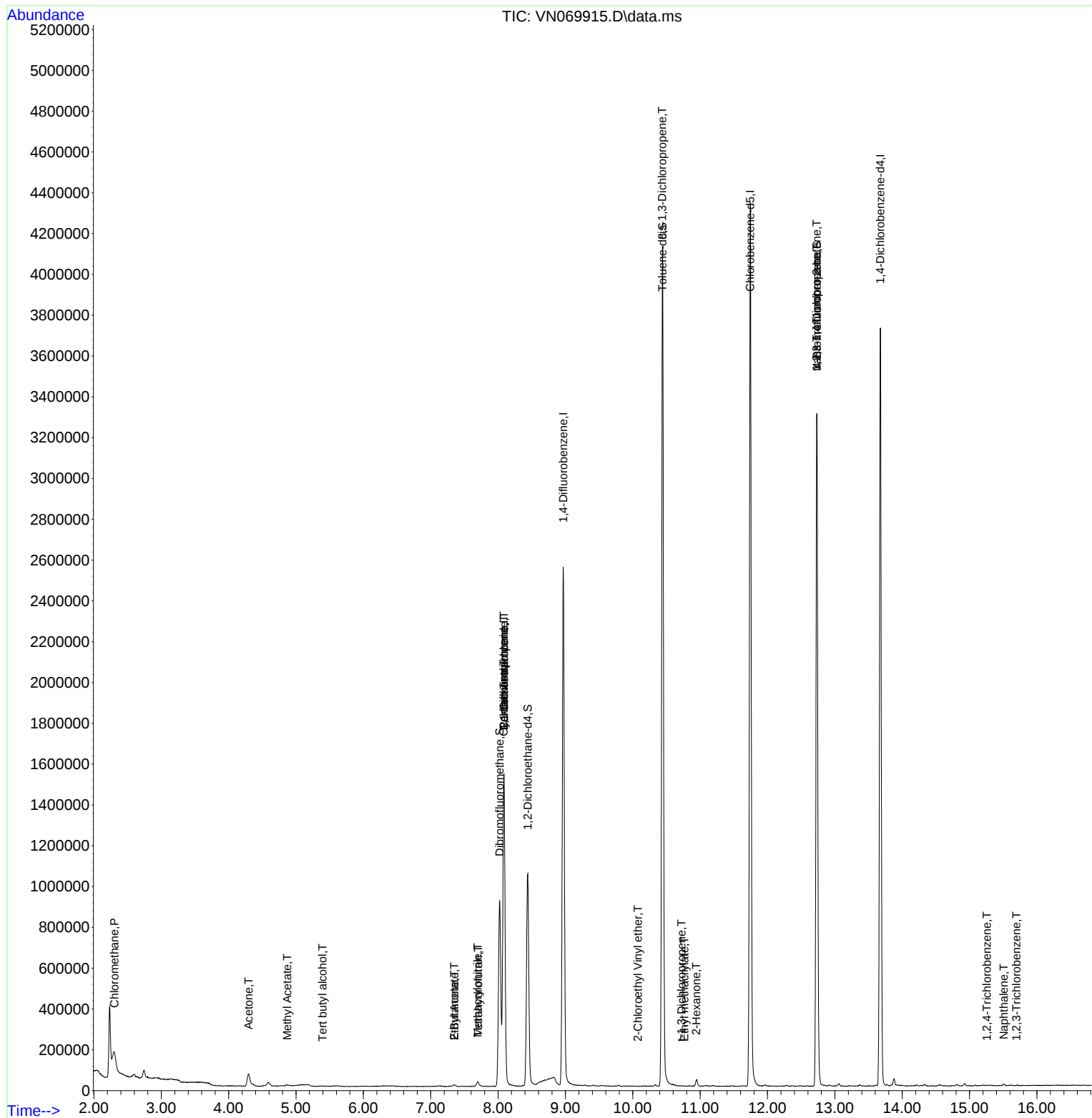
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 8.088          | 168  | 1139272             | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.968          | 114  | 2127585             | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.744         | 117  | 2390880             | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.675         | 152  | 970612              | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.440          | 65   | 908392              | 51.641 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 103.280% |        |        |          |
| 35) Dibromofluoromethane      | 8.024          | 113  | 664325              | 49.849 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 99.700%  |        |        |          |
| 50) Toluene-d8                | 10.440         | 98   | 2787692             | 52.095 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 104.200% |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.733         | 95   | 1148175             | 59.227 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 118.460% |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        | Qvalue |          |
| 3) Chloromethane              | 2.303          | 50   | 7906                | 0.475  | ug/l # | 81       |
| 11) Tert butyl alcohol        | 5.393          | 59   | 1208                | 0.363  | ug/l # | 82       |
| 16) Acetone                   | 4.296          | 43   | 115296              | 10.896 | ug/l   | 97       |
| 18) Methyl Acetate            | 4.870          | 43   | 12913               | 0.404  | ug/l # | 79       |
| 25) 2-Butanone                | 7.351          | 43   | 13666               | 0.951  | ug/l # | 78       |
| 29) Tetrahydrofuran           | 7.702          | 42   | 19419               | 2.224  | ug/l # | 69       |
| 31) Cyclohexane               | 8.083          | 56   | 30446               | 1.244  | ug/l # | 32       |
| 36) 1,1-Dichloropropene       | 8.086          | 75   | 95730               | 4.726  | ug/l # | 49       |
| 37) Ethyl Acetate             | 7.351          | 43   | 13666               | 0.453  | ug/l # | 68       |
| 38) Carbon Tetrachloride      | 8.086          | 117  | 119457              | 6.015  | ug/l # | 16       |
| 41) Methacrylonitrile         | 7.697          | 41   | 12474               | 0.881  | ug/l # | 35       |
| 53) t-1,3-Dichloropropene     | 10.722         | 75   | 83                  | 2.797  | ug/l # | 1        |
| 54) cis-1,3-Dichloropropene   | 10.438         | 75   | 347                 | 2.011  | ug/l # | 1        |
| 56) Ethyl methacrylate        | 10.767         | 69   | 86                  | 2.282  | ug/l # | 1        |
| 58) 2-Chloroethyl Vinyl ether | 10.076         | 63   | 204                 | 18.413 | ug/l # | 45       |
| 59) 2-Hexanone                | 10.944         | 43   | 23548               | 1.076  | ug/l   | 69       |
| 76) 1,2,3-Trichloropropane    | 12.731         | 75   | 645676              | 23.197 | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.731         | 75   | 645676              | 73.814 | ug/l # | 5        |
| 93) 1,2,4-Trichlorobenzene    | 15.257         | 180  | 608                 | 2.914  | ug/l   | 75       |
| 95) Naphthalene               | 15.507         | 128  | 6938                | 4.120  | ug/l # | 86       |
| 96) 1,2,3-Trichlorobenzene    | 15.694         | 180  | 862                 | 2.488  | ug/l # | 59       |
| -----                         |                |      |                     |        |        |          |

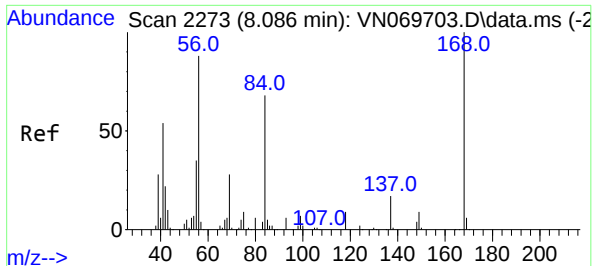
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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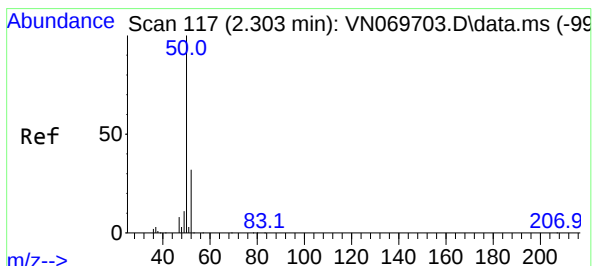
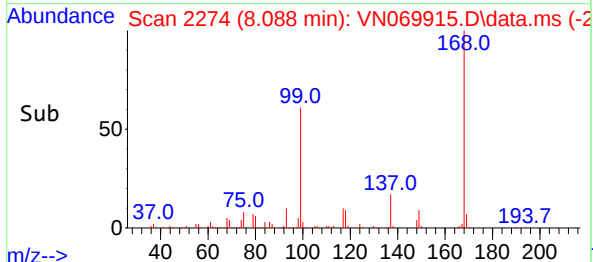
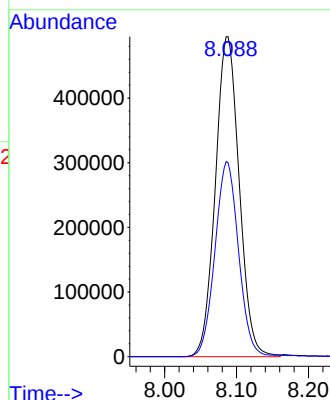
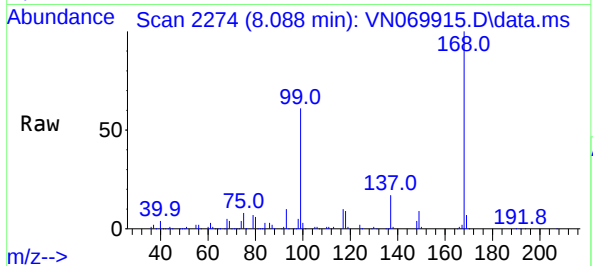




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 21  
Delta R.T. 0.002 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

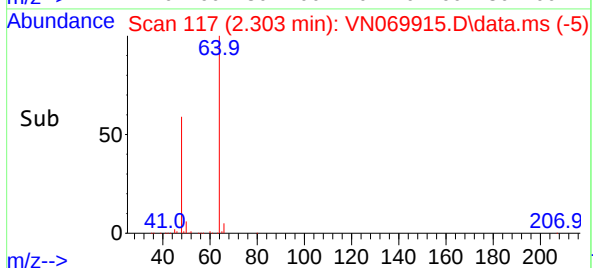
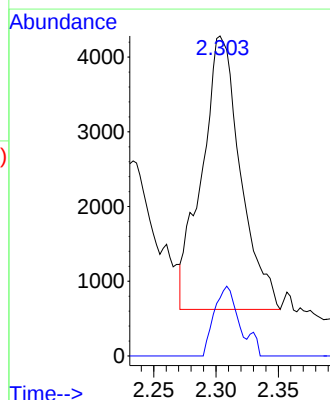
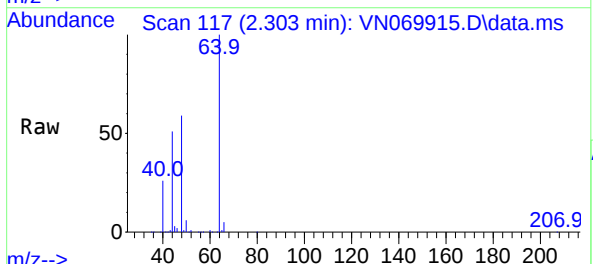
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-25

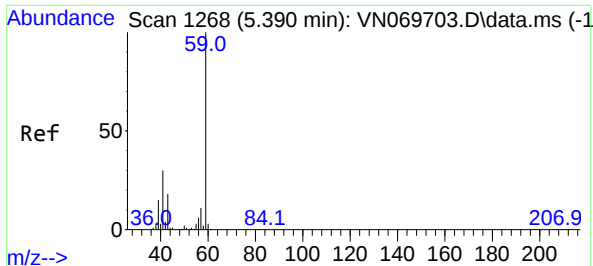
Tgt Ion:168 Resp: 1139272  
Ion Ratio Lower Upper  
168 100  
99 60.6 41.3 61.9



#3  
Chloromethane  
Concen: 0.475 ug/l  
RT: 2.303 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

Tgt Ion: 50 Resp: 7906  
Ion Ratio Lower Upper  
50 100  
52 21.2 25.4 38.0#

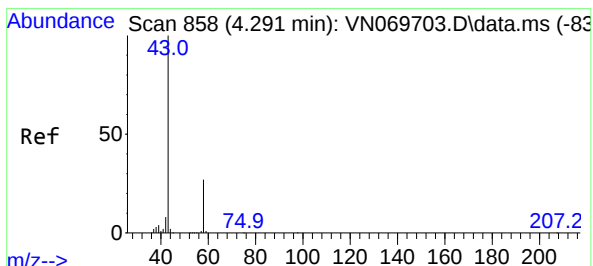
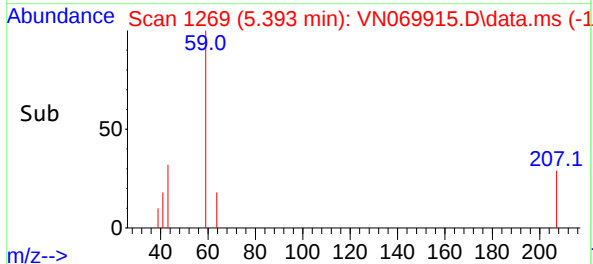
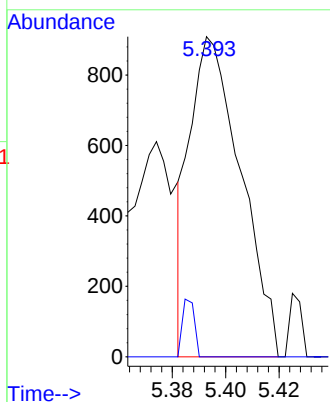
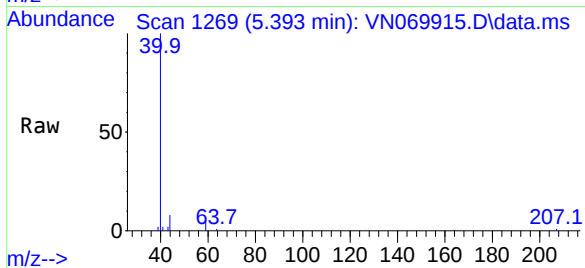




#11  
Tert butyl alcohol  
Concen: 0.363 ug/l  
RT: 5.393 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

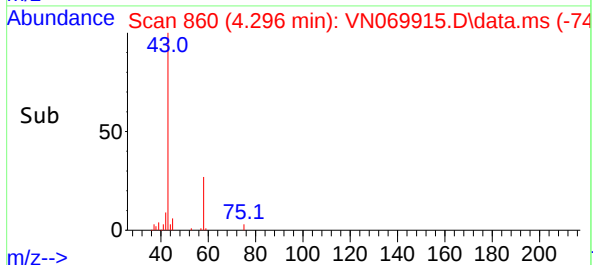
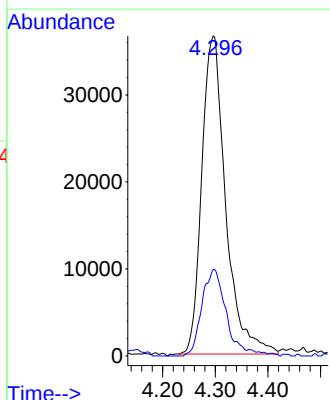
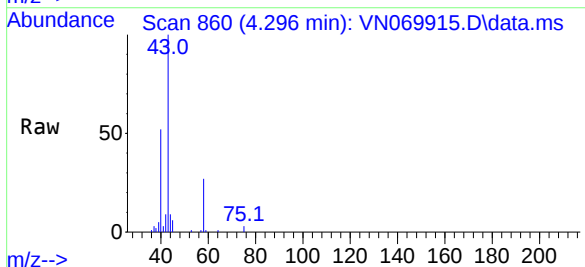
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-25

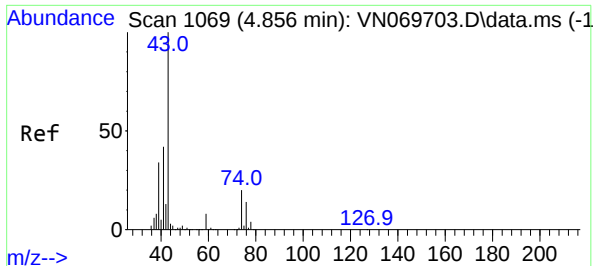
Tgt Ion: 59 Resp: 1208  
Ion Ratio Lower Upper  
59 100  
57 4.2 8.7 13.1#



#16  
Acetone  
Concen: 10.896 ug/l  
RT: 4.296 min Scan# 860  
Delta R.T. 0.005 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

Tgt Ion: 43 Resp: 115296  
Ion Ratio Lower Upper  
43 100  
58 27.2 23.1 34.7





#18

Methyl Acetate

Concen: 0.404 ug/l

RT: 4.870 min Scan# 1069

Delta R.T. 0.013 min

Lab File: VN069915.D

Acq: 9 Dec 2021 16:46

Instrument :

MSVOA\_N

ClientSampleId :

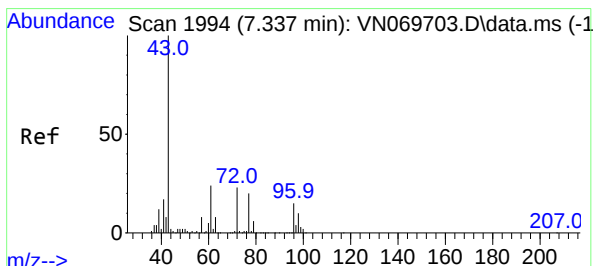
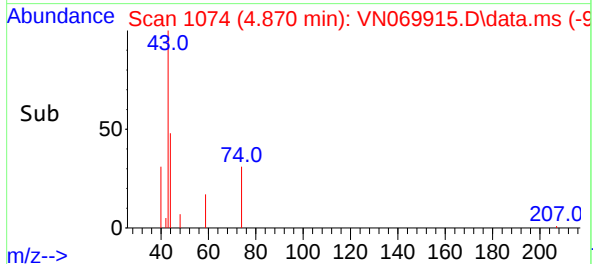
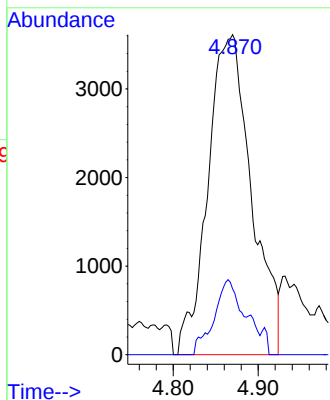
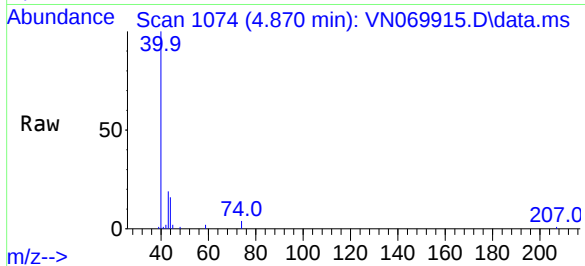
MW-25

Tgt Ion: 43 Resp: 12913

Ion Ratio Lower Upper

43 100

74 13.9 19.4 29.2#



#25

2-Butanone

Concen: 0.951 ug/l

RT: 7.351 min Scan# 1999

Delta R.T. 0.013 min

Lab File: VN069915.D

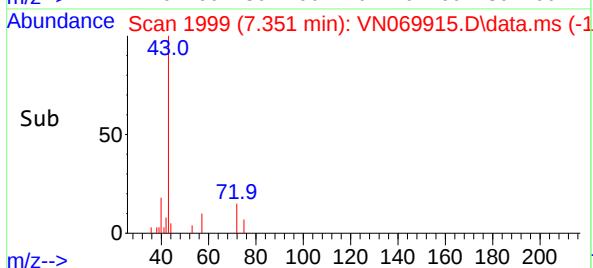
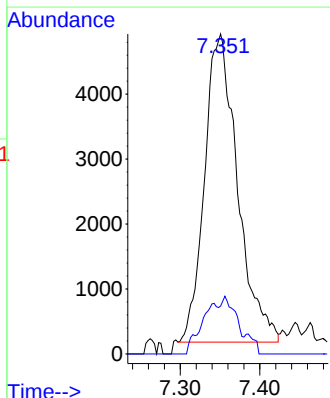
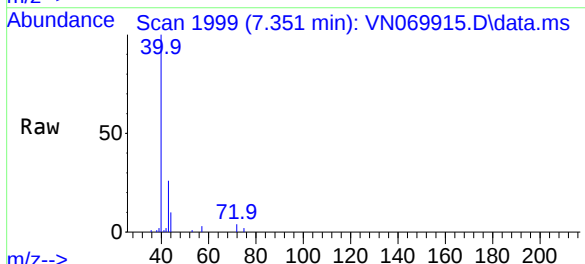
Acq: 9 Dec 2021 16:46

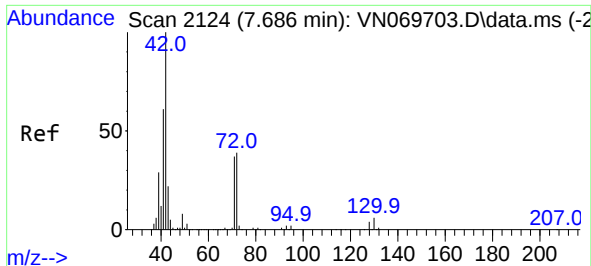
Tgt Ion: 43 Resp: 13666

Ion Ratio Lower Upper

43 100

72 15.5 21.7 32.5#





#29

Tetrahydrofuran

Concen: 2.224 ug/l

RT: 7.702 min Scan# 21

Delta R.T. 0.016 min

Lab File: VN069915.D

Acq: 9 Dec 2021 16:46

Instrument :

MSVOA\_N

ClientSampleId :

MW-25

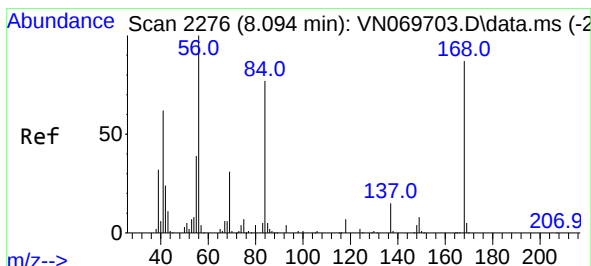
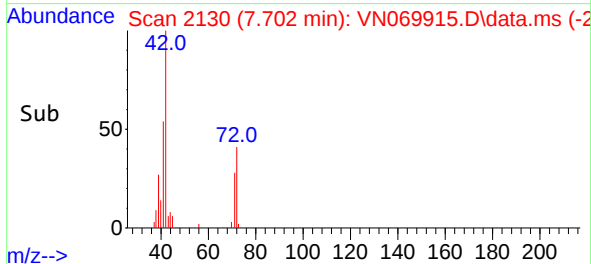
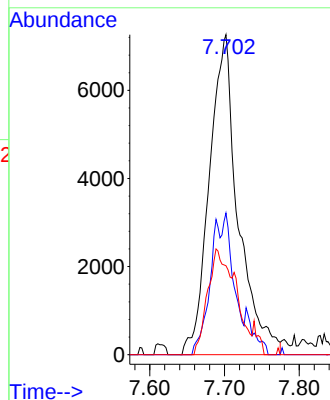
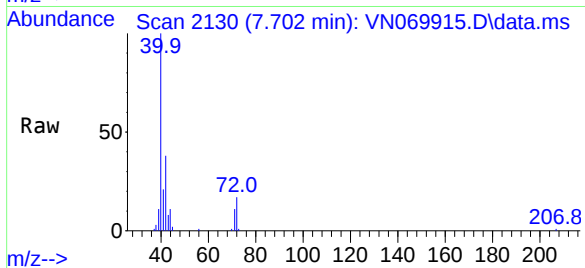
Tgt Ion: 42 Resp: 19419

Ion Ratio Lower Upper

42 100

72 16.4 36.3 54.5#

71 32.1 34.7 52.1#



#31

Cyclohexane

Concen: 1.244 ug/l

RT: 8.083 min Scan# 2272

Delta R.T. -0.011 min

Lab File: VN069915.D

Acq: 9 Dec 2021 16:46

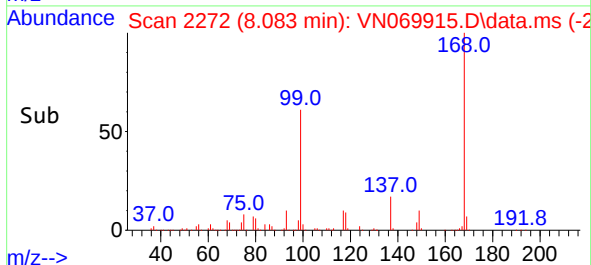
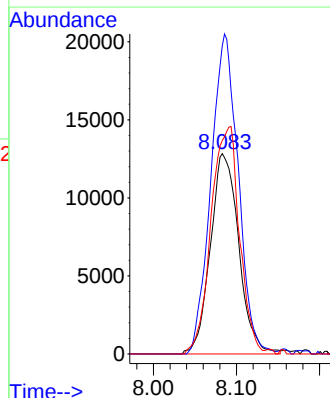
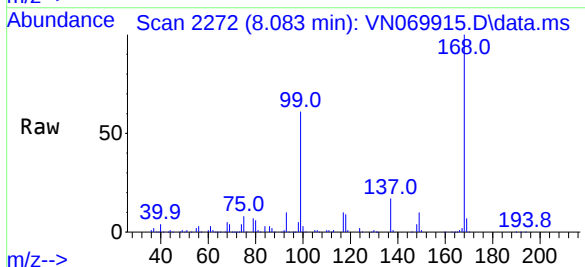
Tgt Ion: 56 Resp: 30446

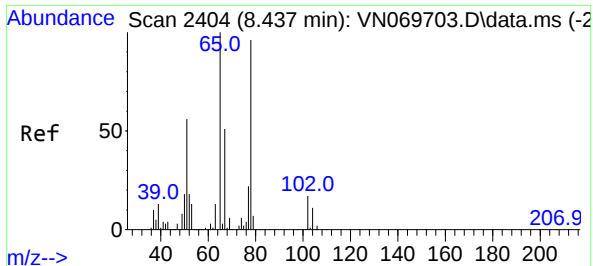
Ion Ratio Lower Upper

56 100

69 153.7 27.1 40.7#

84 106.6 73.4 110.0





#33

1,2-Dichloroethane-d4

Concen: 51.641 ug/l

RT: 8.440 min Scan# 24

Delta R.T. 0.003 min

Lab File: VN069915.D

Acq: 9 Dec 2021 16:46

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ClientSampleId :

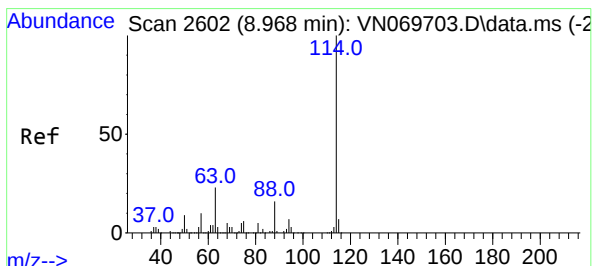
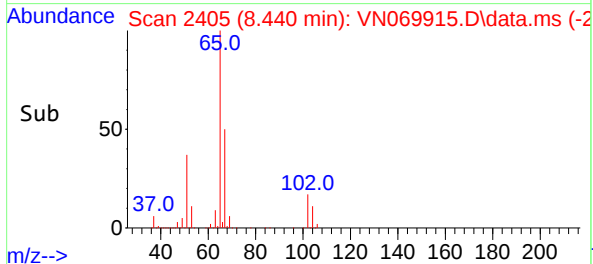
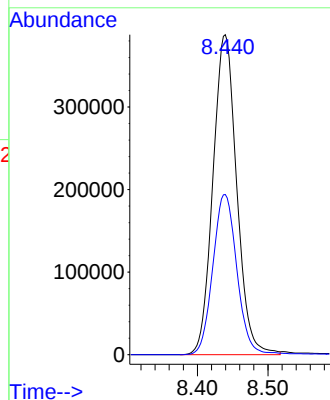
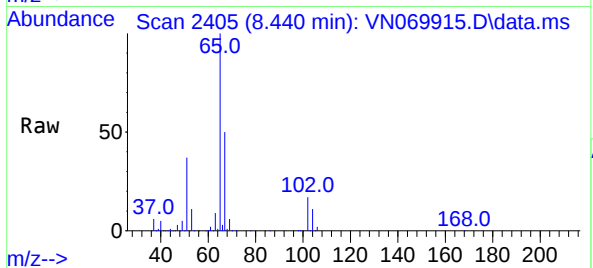
MW-25

Tgt Ion: 65 Resp: 908392

Ion Ratio Lower Upper

65 100

67 50.7 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: VN069915.D

Acq: 9 Dec 2021 16:46

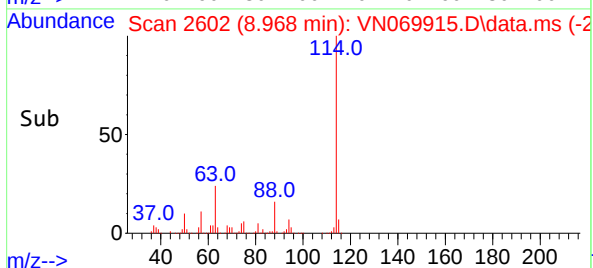
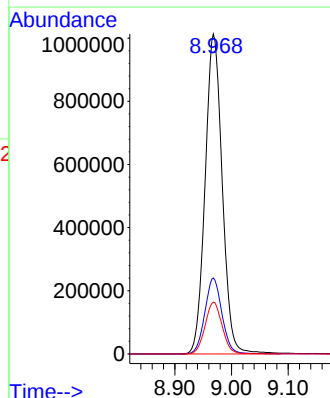
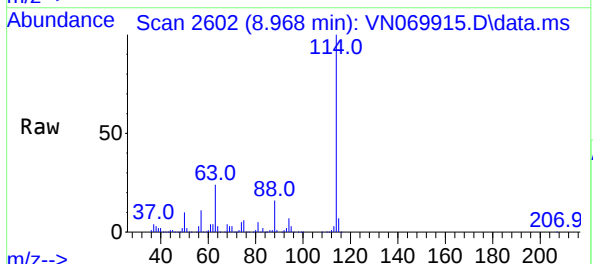
Tgt Ion:114 Resp: 2127585

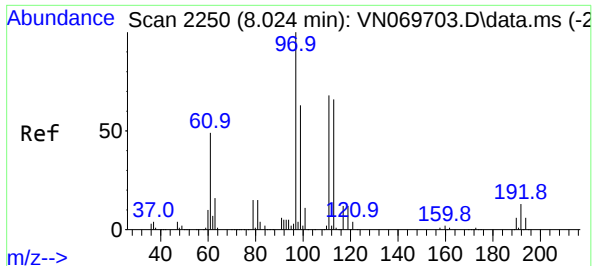
Ion Ratio Lower Upper

114 100

63 23.7 0.0 37.8

88 16.2 0.0 27.4

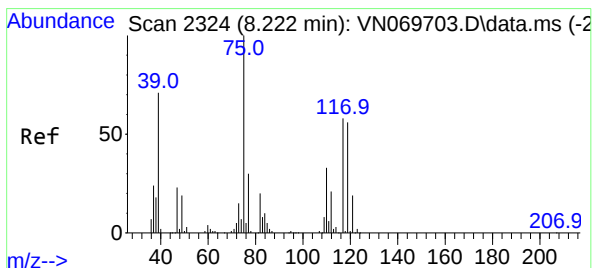
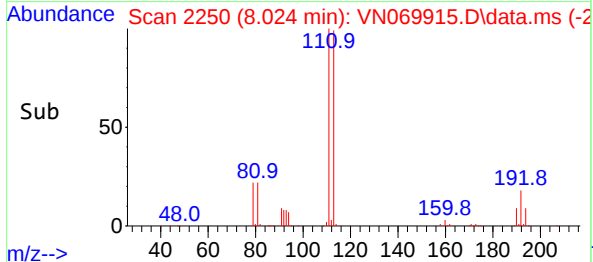
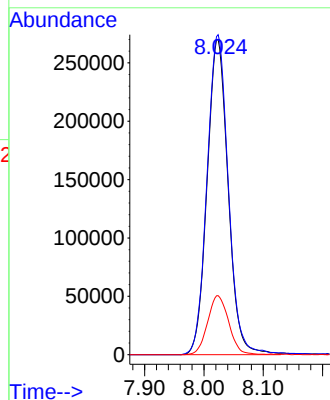
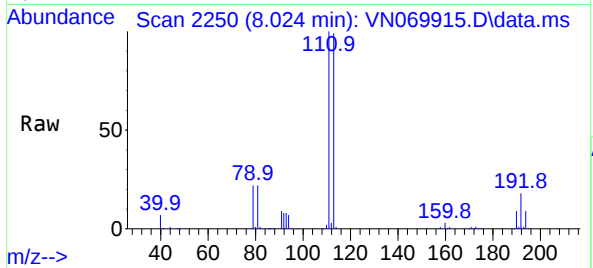




#35  
Dibromofluoromethane  
Concen: 49.849 ug/l  
RT: 8.024 min Scan# 2113  
Delta R.T. 0.000 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

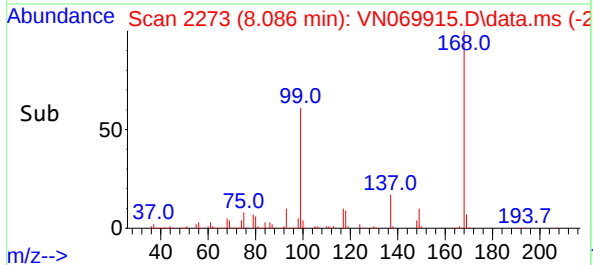
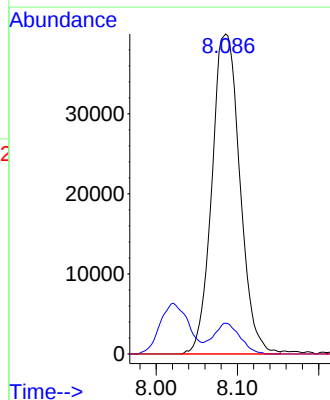
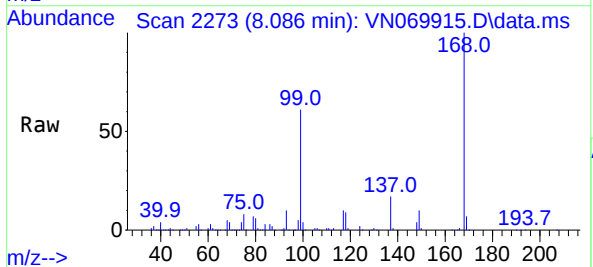
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-25

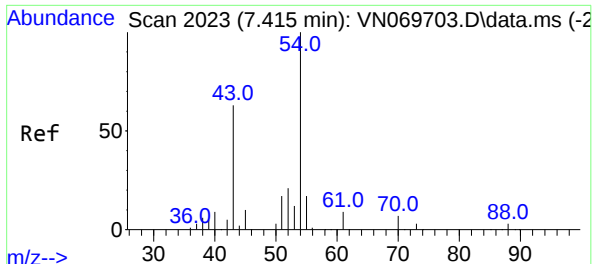
Tgt Ion:113 Resp: 664325  
Ion Ratio Lower Upper  
113 100  
111 102.1 82.2 123.2  
192 18.8 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 4.726 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.137 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

Tgt Ion: 75 Resp: 95730  
Ion Ratio Lower Upper  
75 100  
110 9.1 18.4 55.2#  
77 0.0 24.4 36.6#

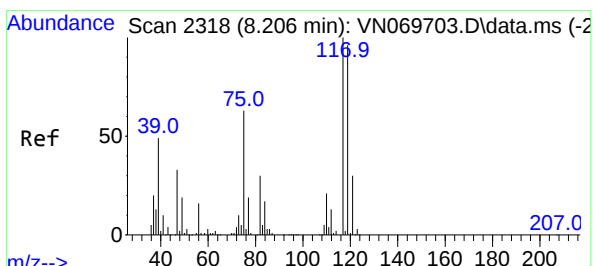
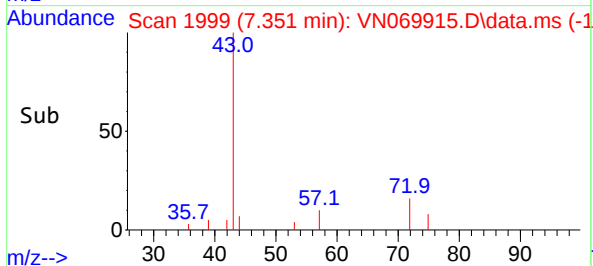
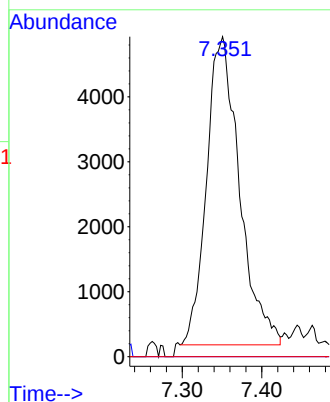
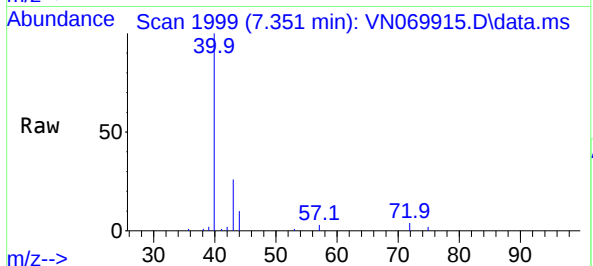




#37  
Ethyl Acetate  
Concen: 0.453 ug/l  
RT: 7.351 min Scan# 1999  
Delta R.T. -0.064 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

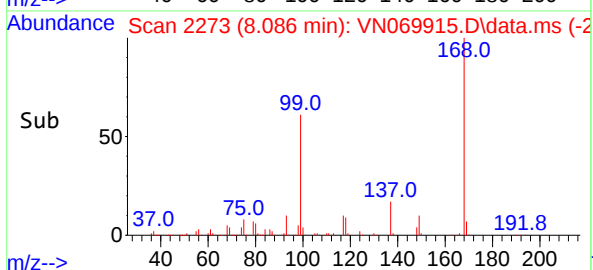
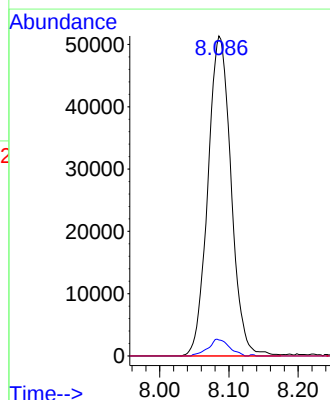
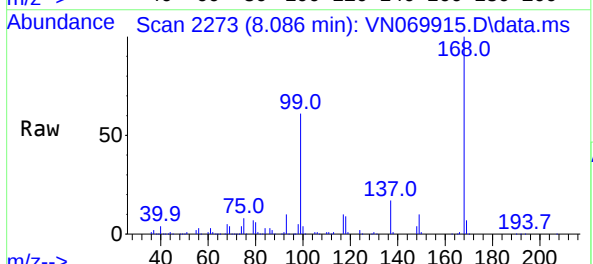
Instrument : MSVOA\_N  
ClientSampleId : MW-25

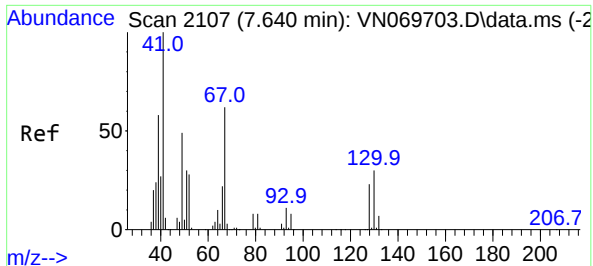
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 13666 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 11.5  | 17.3# |
| 70       | 0.0   | 7.9   | 11.9# |



#38  
Carbon Tetrachloride  
Concen: 6.015 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.121 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 119457 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 5.0   | 76.1  | 114.1# |
| 121      | 0.0   | 24.2  | 36.2#  |

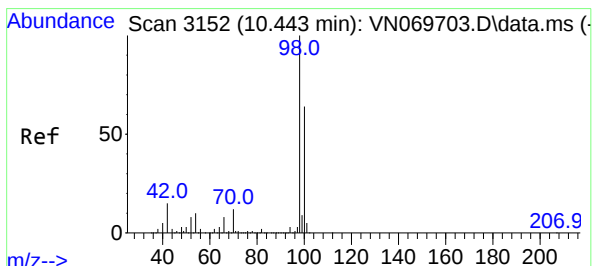
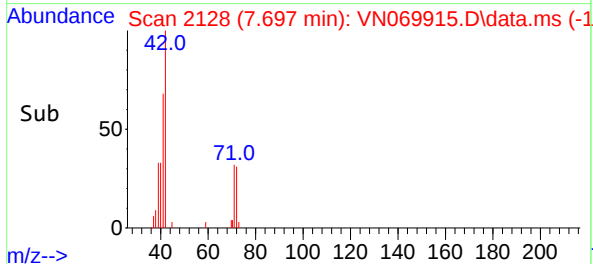
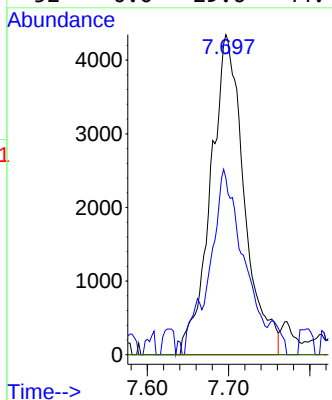
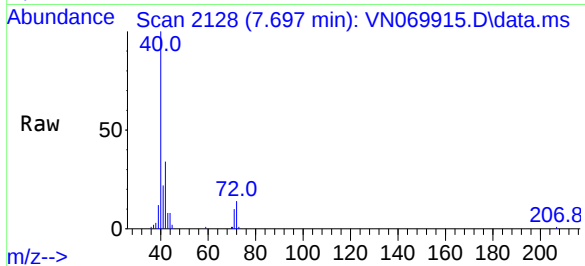




#41  
Methacrylonitrile  
Concen: 0.881 ug/l  
RT: 7.697 min Scan# 2107  
Delta R.T. 0.057 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

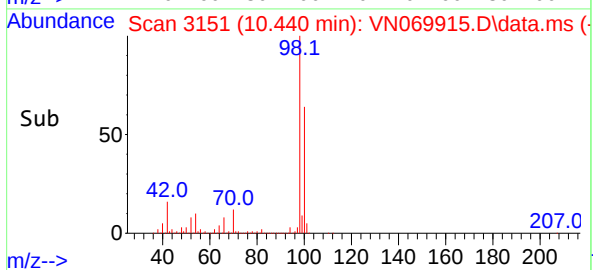
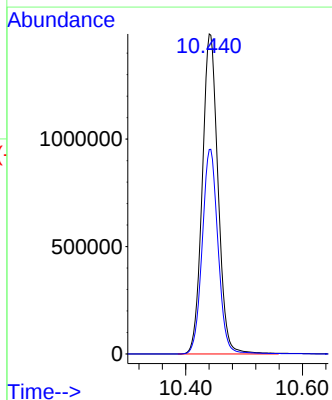
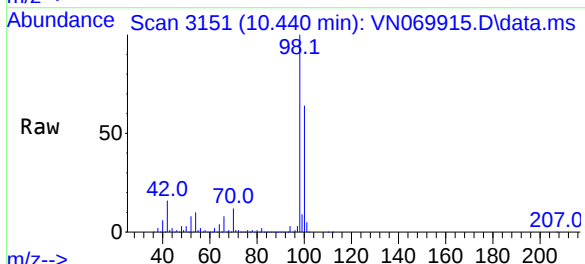
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-25

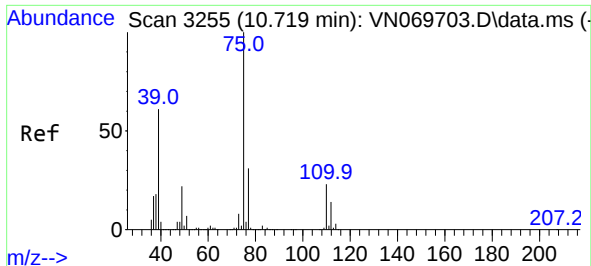
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 12474  |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 39.9  | 48.1  | 72.1#  |
| 67       | 0.0   | 68.3  | 102.5# |
| 52       | 0.0   | 29.6  | 44.4#  |



#50  
Toluene-d8  
Concen: 52.095 ug/l  
RT: 10.440 min Scan# 3151  
Delta R.T. -0.003 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 98    | Resp: | 2787692 |
| Ion      | Ratio | Lower | Upper   |
| 98       | 100   |       |         |
| 100      | 64.1  | 50.4  | 75.6    |

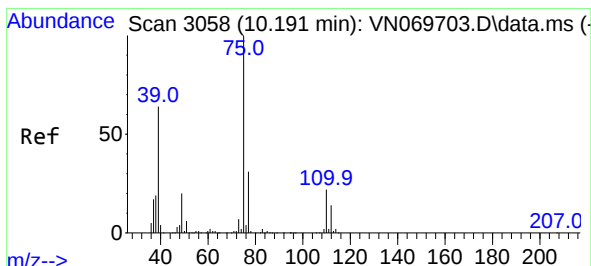
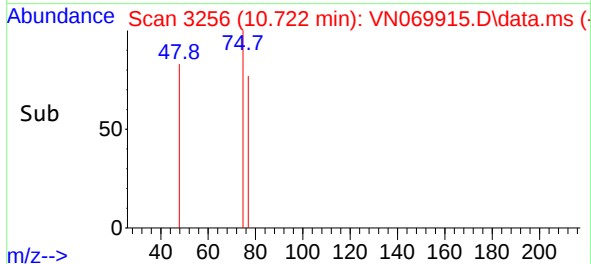
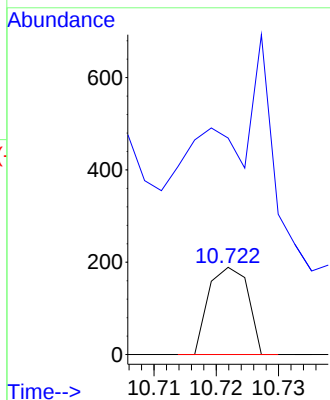
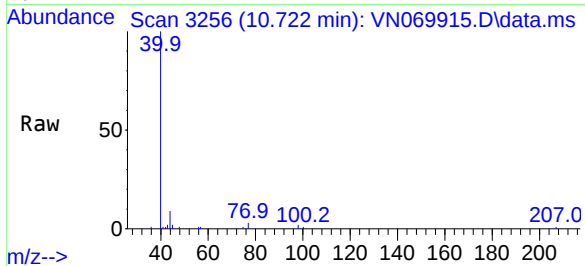




#53  
t-1,3-Dichloropropene  
Concen: 2.797 ug/l  
RT: 10.722 min Scan# 3150  
Delta R.T. 0.003 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

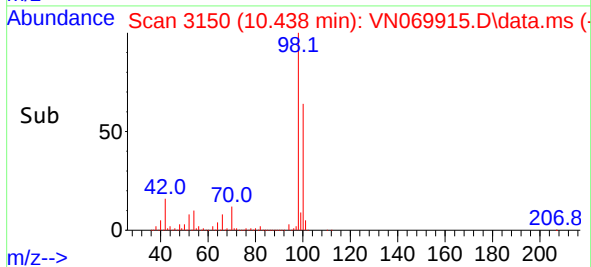
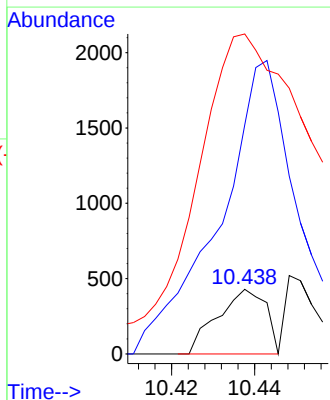
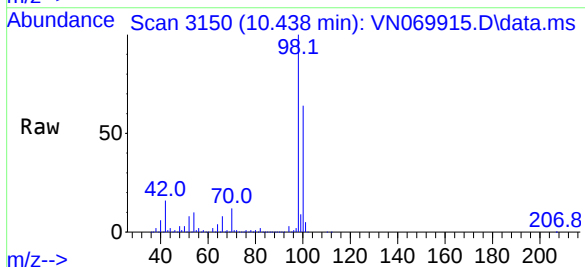
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-25

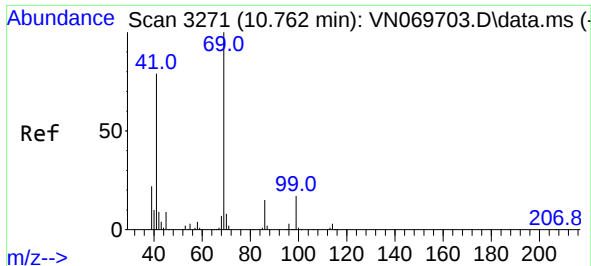
Tgt Ion: 75 Resp: 83  
Ion Ratio Lower Upper  
75 100  
77 87.3 25.6 38.4#



#54  
cis-1,3-Dichloropropene  
Concen: 2.011 ug/l  
RT: 10.438 min Scan# 3150  
Delta R.T. 0.247 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

Tgt Ion: 75 Resp: 347  
Ion Ratio Lower Upper  
75 100  
77 260.6 26.4 39.6#  
39 348.5 42.5 63.7#

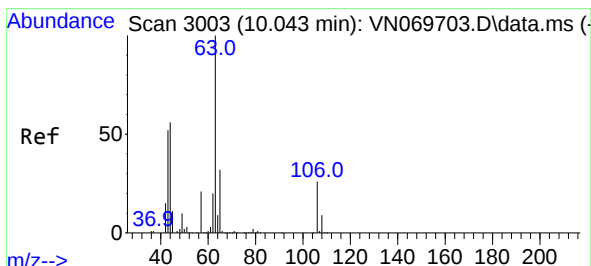
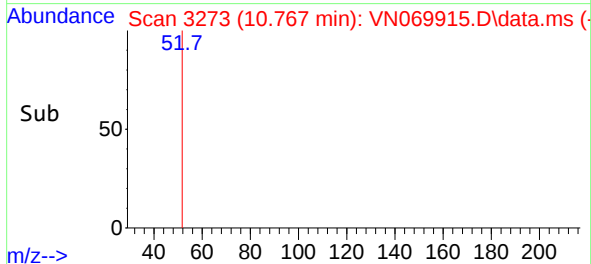
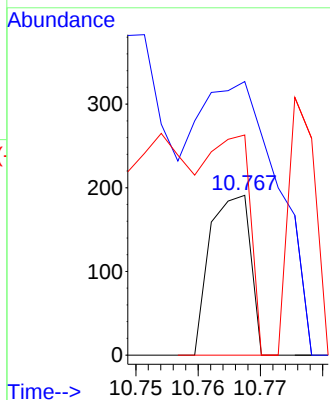
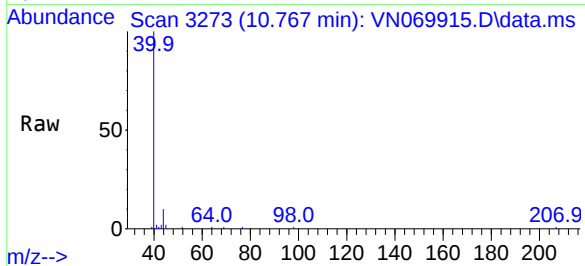




#56  
Ethyl methacrylate  
Concen: 2.282 ug/l  
RT: 10.767 min Scan# 3015  
Delta R.T. 0.005 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

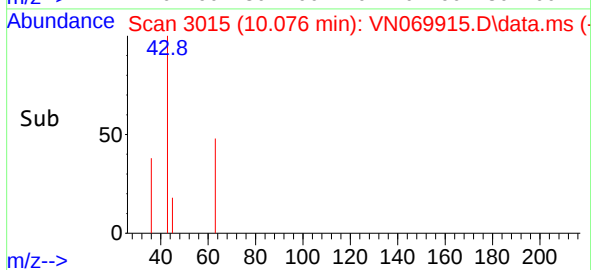
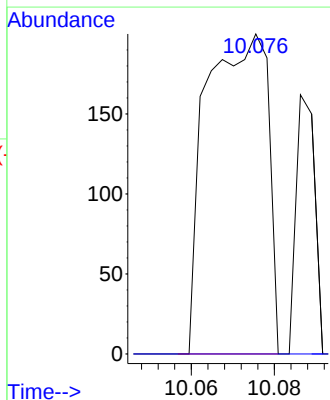
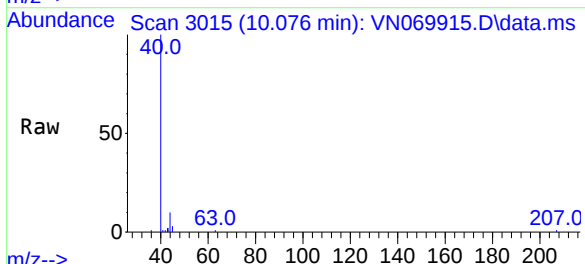
Instrument : MSVOA\_N  
ClientSampleId : MW-25

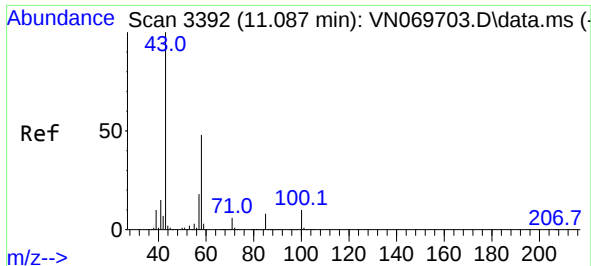
Tgt Ion: 69 Resp: 86  
Ion Ratio Lower Upper  
69 100  
41 350.0 51.4 77.0#  
39 0.0 34.6 52.0#



#58  
2-Chloroethyl Vinyl ether  
Concen: 18.413 ug/l  
RT: 10.076 min Scan# 3015  
Delta R.T. 0.033 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

Tgt Ion: 63 Resp: 204  
Ion Ratio Lower Upper  
63 100  
106 0.0 23.9 35.9#

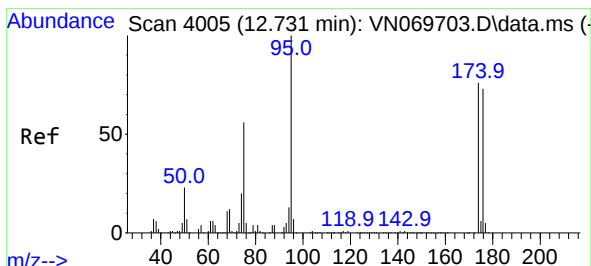
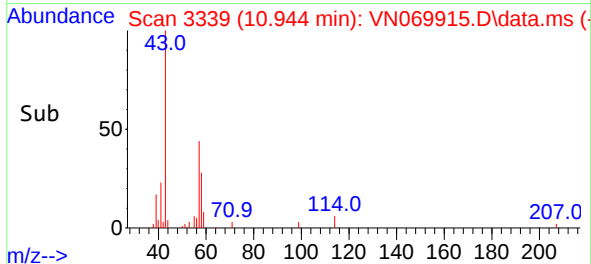
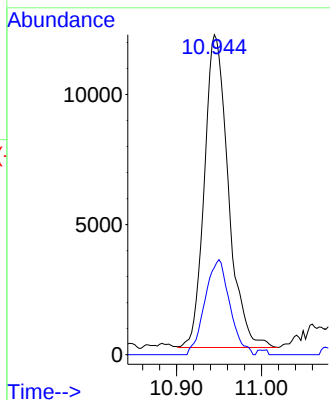
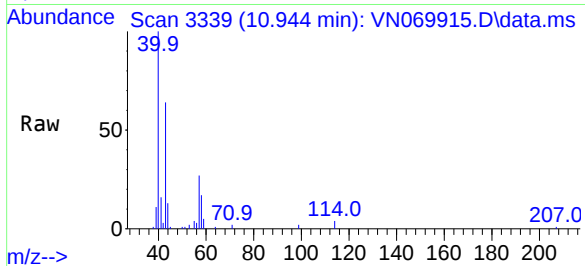




#59  
2-Hexanone  
Concen: 1.076 ug/l  
RT: 10.944 min Scan# 31  
Delta R.T. -0.143 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

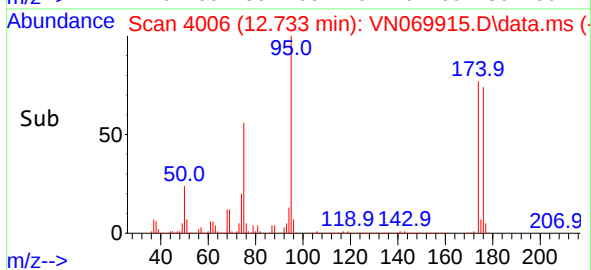
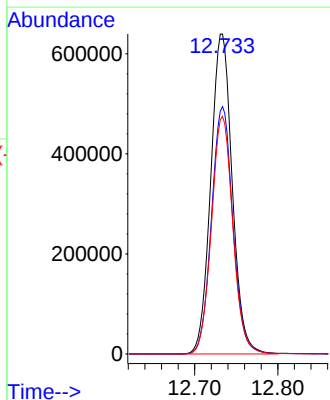
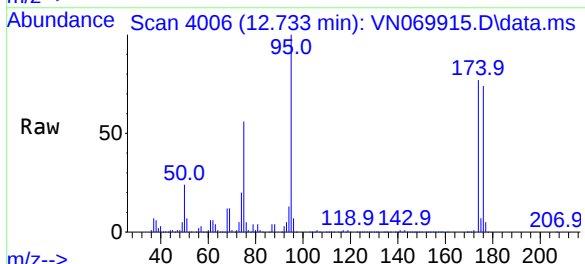
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-25

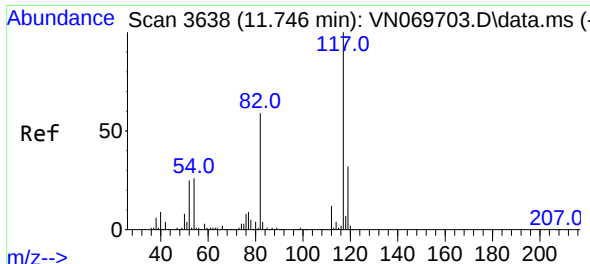
Tgt Ion: 43 Resp: 23548  
Ion Ratio Lower Upper  
43 100  
58 31.4 26.9 80.7



#62  
4-Bromofluorobenzene  
Concen: 59.227 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.002 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

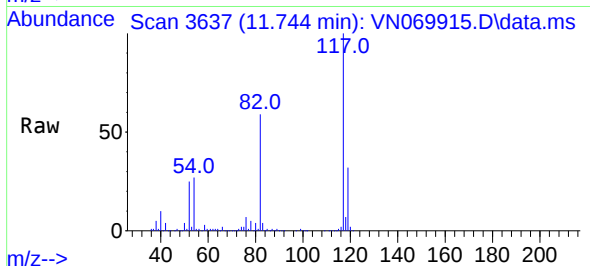
Tgt Ion: 95 Resp: 1148175  
Ion Ratio Lower Upper  
95 100  
174 77.2 0.0 187.2  
176 73.9 0.0 181.4





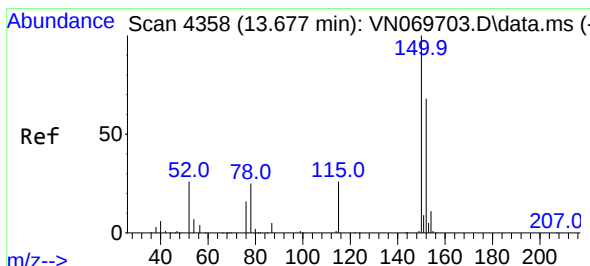
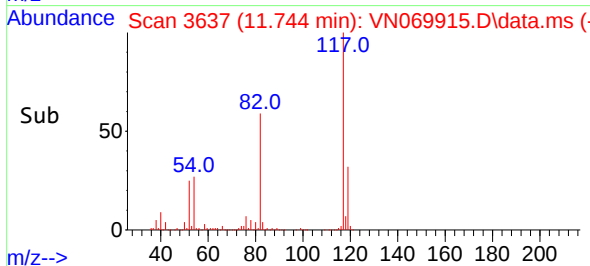
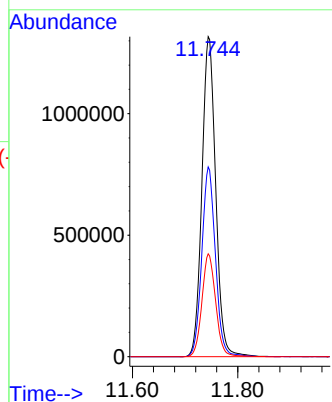
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.744 min Scan# 3637  
Delta R.T. -0.002 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-25



Tgt Ion:117 Resp: 2390880

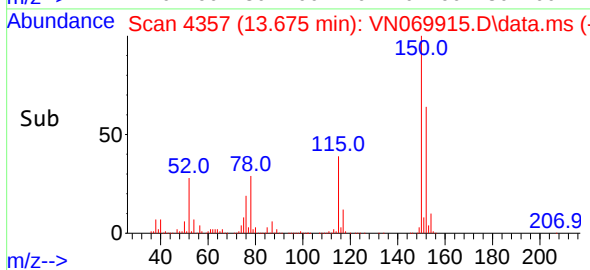
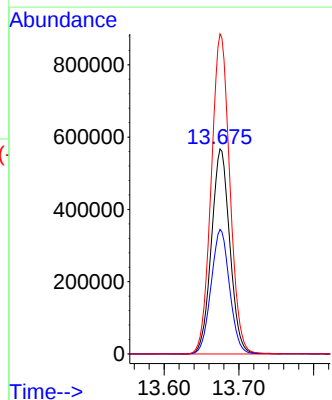
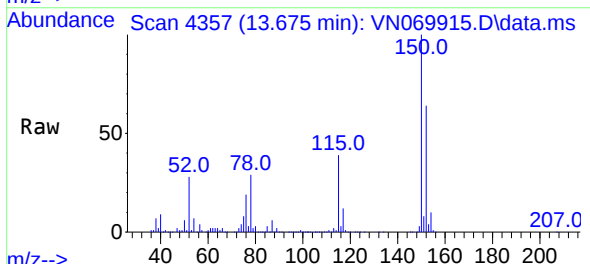
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 59.3  | 42.4  | 63.6  |
| 119 | 32.2  | 25.4  | 38.2  |

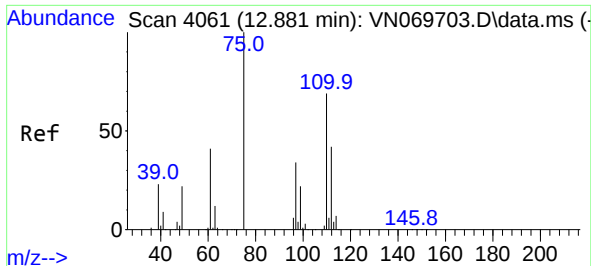


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.675 min Scan# 4357  
Delta R.T. -0.003 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

Tgt Ion:152 Resp: 970612

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 61.0  | 27.5  | 82.5  |
| 150 | 157.4 | 0.0   | 344.4 |

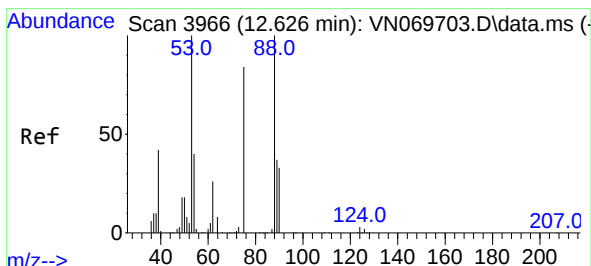
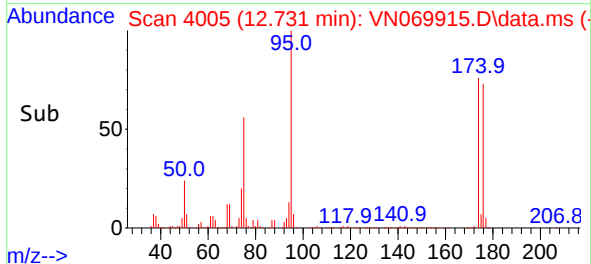
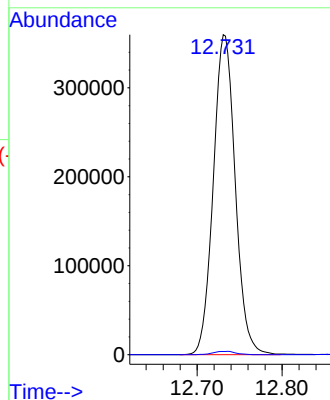
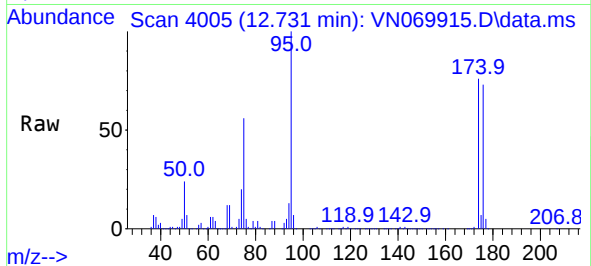




#76  
1,2,3-Trichloropropane  
Concen: 23.197 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. -0.150 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

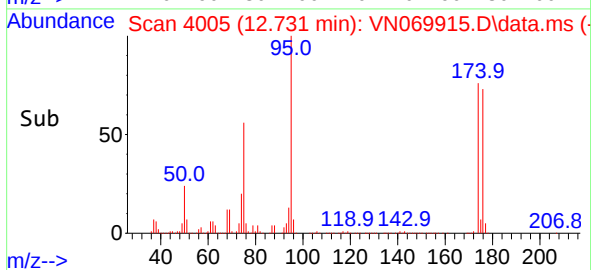
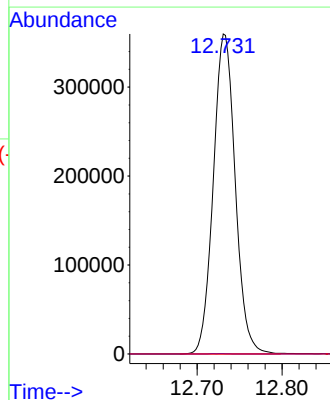
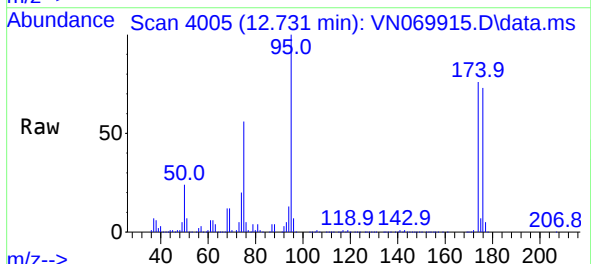
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ClientSampleId :  
MW-25

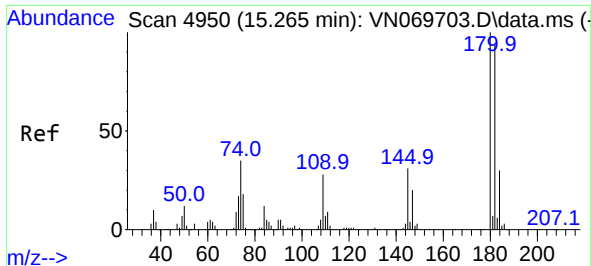
Tgt Ion: 75 Resp: 645676  
Ion Ratio Lower Upper  
75 100  
77 1.1 82.6 247.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 73.814 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. 0.105 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

Tgt Ion: 75 Resp: 645676  
Ion Ratio Lower Upper  
75 100  
53 0.1 90.5 135.7#  
89 0.0 38.2 57.4#

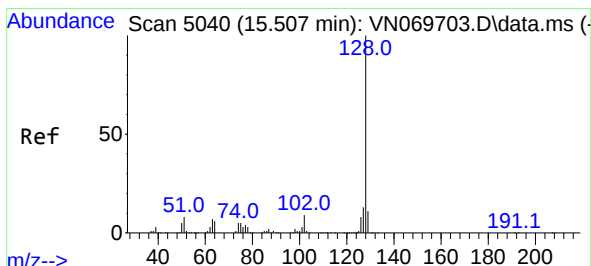
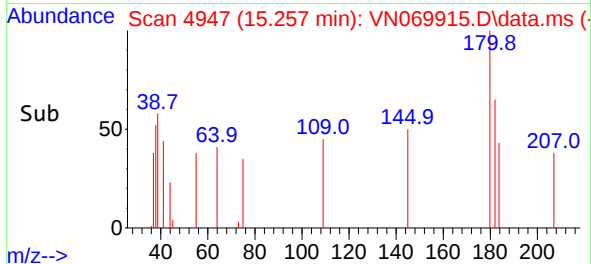
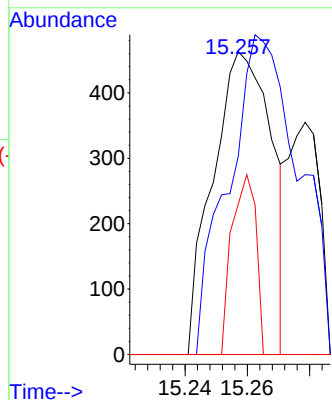
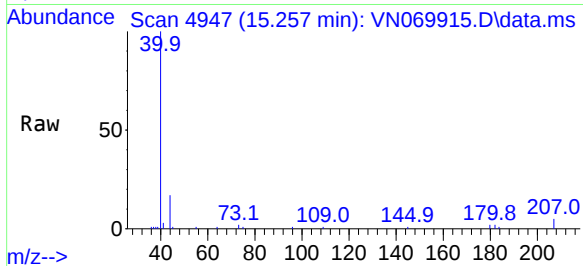




#93  
1,2,4-Trichlorobenzene  
Concen: 2.914 ug/l  
RT: 15.257 min Scan# 4950  
Delta R.T. -0.008 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

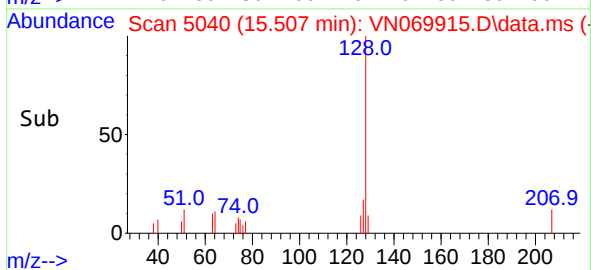
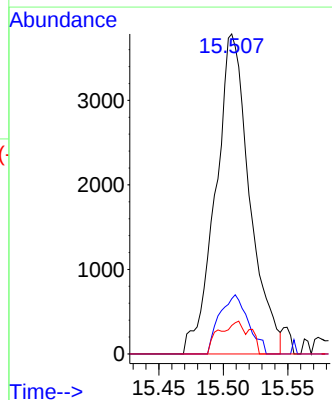
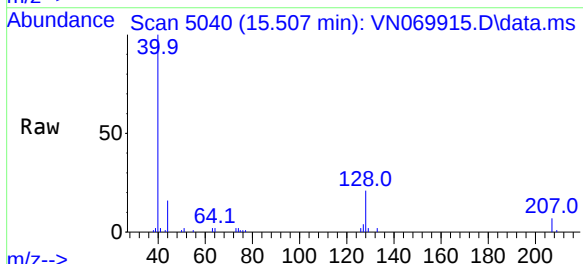
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-25

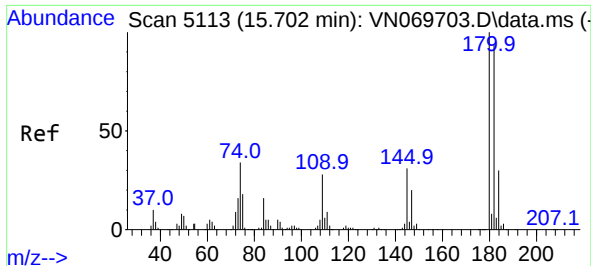
Tgt Ion:180 Resp: 608  
Ion Ratio Lower Upper  
180 100  
182 126.2 48.3 144.9  
145 24.3 14.5 43.5



#95  
Naphthalene  
Concen: 4.120 ug/l  
RT: 15.507 min Scan# 5040  
Delta R.T. -0.000 min  
Lab File: VN069915.D  
Acq: 9 Dec 2021 16:46

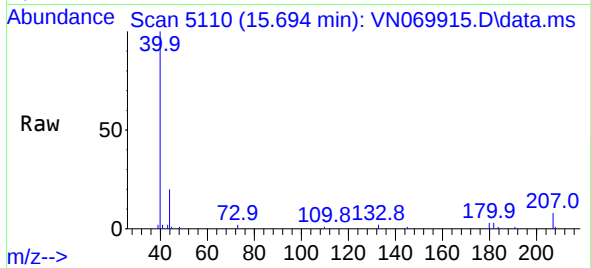
Tgt Ion:128 Resp: 6938  
Ion Ratio Lower Upper  
128 100  
127 15.6 10.5 15.7  
129 2.0 8.7 13.1#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 2.488 ug/l  
 RT: 15.694 min Scan# 51  
 Delta R.T. -0.008 min  
 Lab File: VN069915.D  
 Acq: 9 Dec 2021 16:46

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-25



Tgt Ion:180 Resp: 862  
 Ion Ratio Lower Upper  
 180 100  
 182 53.9 47.4 142.2  
 145 9.9 15.0 45.1#

