

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031722\  
 Data File : VX027506.D  
 Acq On : 17 Mar 2022 22:55  
 Operator : JC/MD  
 Sample : N1997-12  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-112

Quant Time: Mar 18 02:08:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031722W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 17 15:02:59 2022  
 Response via : Initial Calibration

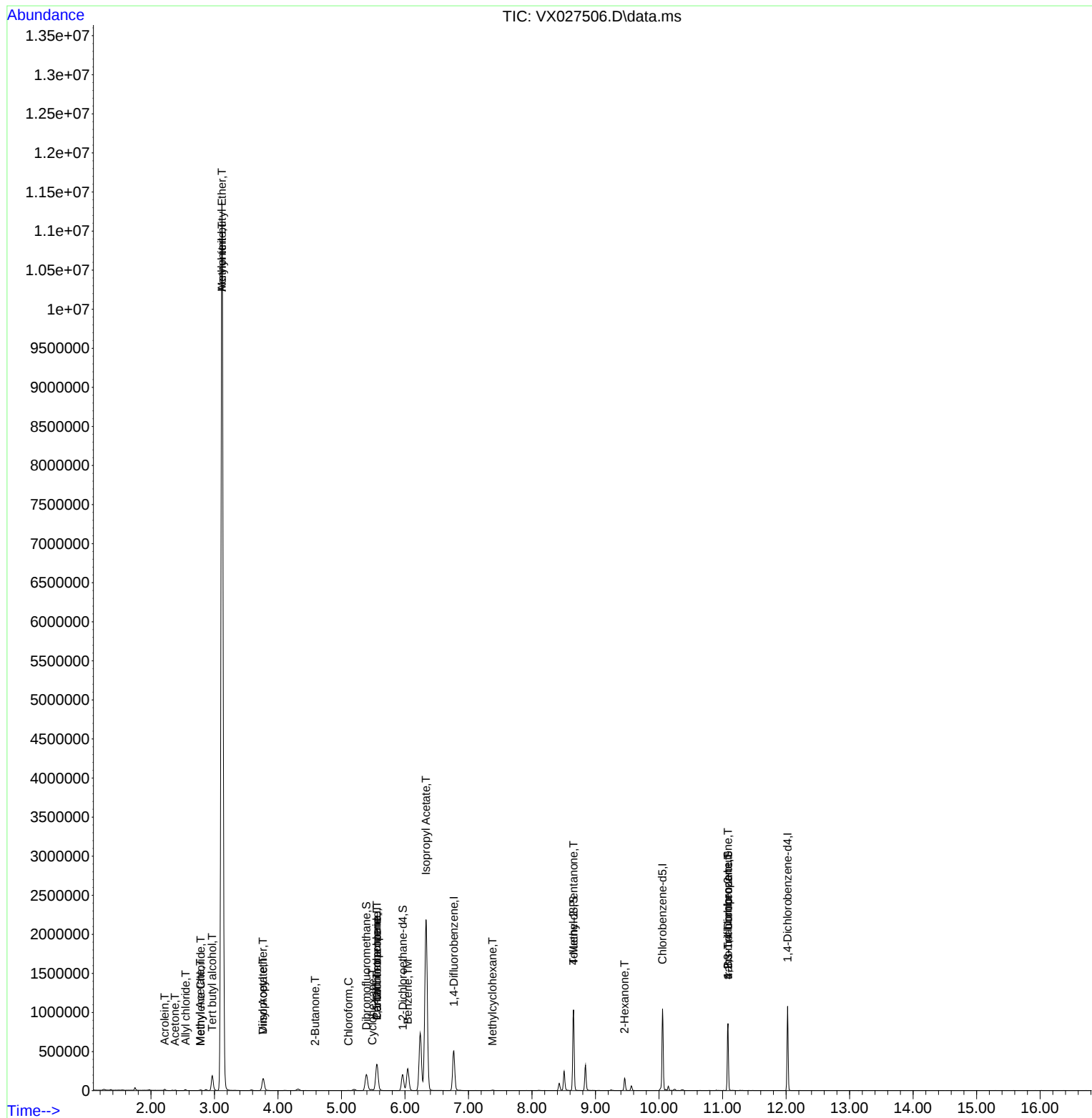
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 329015   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769  | 114   | 544201   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 489557   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 222589   | 50.000    | ug/l       | 0.00     |
|                               |        |       |          |           |            |          |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.964  | 65    | 205150   | 50.615    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery  | = 101.240% |          |
| 35) Dibromofluoromethane      | 5.391  | 113   | 179275   | 51.203    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery  | = 102.400% |          |
| 50) Toluene-d8                | 8.653  | 98    | 638111   | 48.162    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery  | = 96.320%  |          |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 227109   | 46.636    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery  | = 93.280%  |          |
|                               |        |       |          |           |            |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 5) Bromomethane               | 1.611  | 94    | 507      | Below Cal | #          | 67       |
| 11) Tert butyl alcohol        | 2.965  | 59    | 220139   | 284.988   | ug/l #     | 72       |
| 13) Acrolein                  | 2.215  | 56    | 452      | 0.754     | ug/l #     | 1        |
| 14) Allyl chloride            | 2.544  | 41    | 1286     | 0.269     | ug/l #     | 55       |
| 15) Acrylonitrile             | 3.117  | 53    | 139382   | 79.369    | ug/l #     | 30       |
| 16) Acetone                   | 2.380  | 43    | 6358     | 3.848     | ug/l #     | 84       |
| 18) Methyl Acetate            | 2.776  | 43    | 4594     | 1.160     | ug/l #     | 46       |
| 19) Methyl tert-butyl Ether   | 3.117  | 73    | 13154794 | 1276.195  | ug/l       | 92       |
| 20) Methylene Chloride        | 2.782  | 84    | 822      | 0.231     | ug/l #     | 83       |
| 22) Diisopropyl ether         | 3.763  | 45    | 160855   | 17.229    | ug/l       | 91       |
| 23) Vinyl Acetate             | 3.763  | 43    | 83600    | 10.297    | ug/l #     | 68       |
| 25) 2-Butanone                | 4.586  | 43    | 670      | 0.270     | ug/l #     | 44       |
| 30) Chloroform                | 5.111  | 83    | 2526     | 0.403     | ug/l       | 95       |
| 31) Cyclohexane               | 5.483  | 56    | 9357     | 1.859     | ug/l #     | 81       |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 23648    | 4.942     | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 32584    | 5.953     | ug/l #     | 16       |
| 39) Methylcyclohexane         | 7.379  | 83    | 2495     | 0.415     | ug/l #     | 81       |
| 40) Benzene                   | 6.043  | 78    | 343476   | 25.022    | ug/l       | 99       |
| 43) Isopropyl Acetate         | 6.330  | 43    | 724887   | 94.469    | ug/l #     | 6        |
| 51) 4-Methyl-2-Pentanone      | 8.653  | 43    | 2417     | 0.493     | ug/l #     | 1        |
| 58) 2-Chloroethyl Vinyl ether | 8.427  | 63    | 247      | Below Cal | #          | 45       |
| 59) 2-Hexanone                | 9.457  | 43    | 7835     | 2.077     | ug/l       | 96       |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75    | 111783   | 24.009    | ug/l #     | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75    | 111783   | 72.917    | ug/l #     | 15       |
| -----                         |        |       |          |           |            |          |

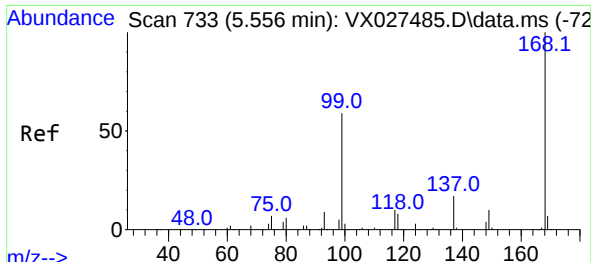
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031722\  
Data File : VX027506.D  
Acq On : 17 Mar 2022 22:55  
Operator : JC/MD  
Sample : N1997-12  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-112

Quant Time: Mar 18 02:08:19 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031722W.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 17 15:02:59 2022  
Response via : Initial Calibration

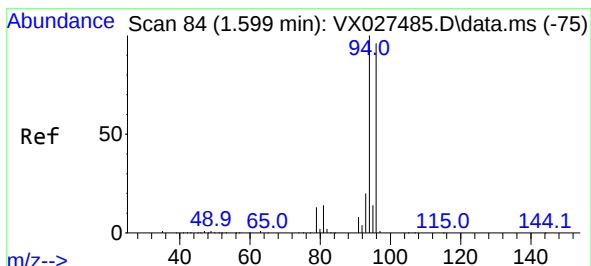
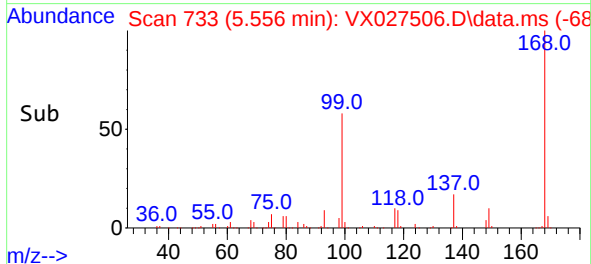
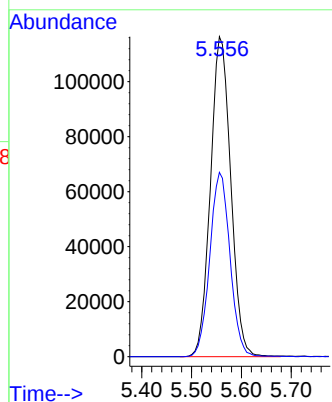
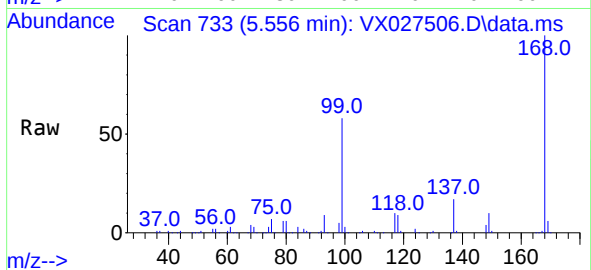




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

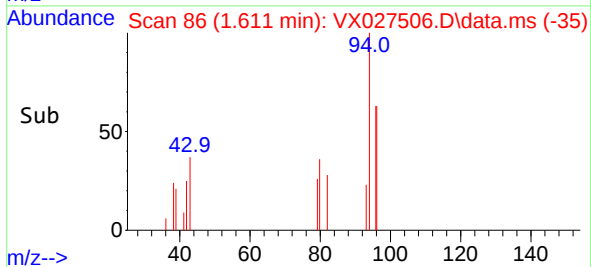
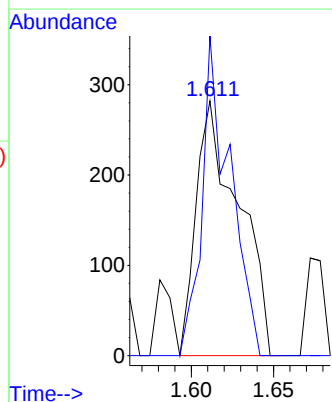
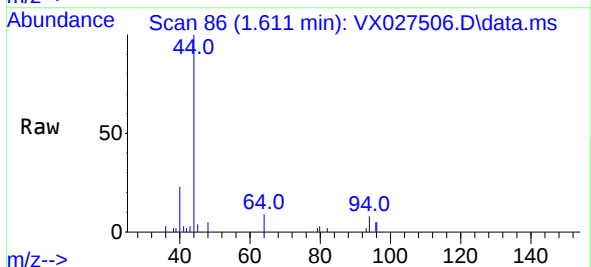
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-112

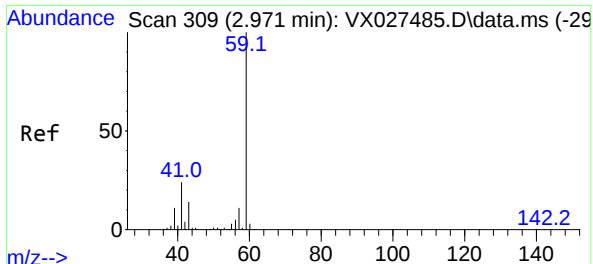
Tgt Ion:168 Resp: 329015  
Ion Ratio Lower Upper  
168 100  
99 57.6 41.7 62.5



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.611 min Scan# 86  
Delta R.T. 0.012 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

Tgt Ion: 94 Resp: 507  
Ion Ratio Lower Upper  
94 100  
96 125.5 75.3 112.9#





#11

Tert butyl alcohol

Concen: 284.988 ug/l

RT: 2.965 min Scan# 309

Delta R.T. -0.006 min

Lab File: VX027506.D

Acq: 17 Mar 2022 22:55

Instrument :

MSVOA\_X

ClientSampleId :

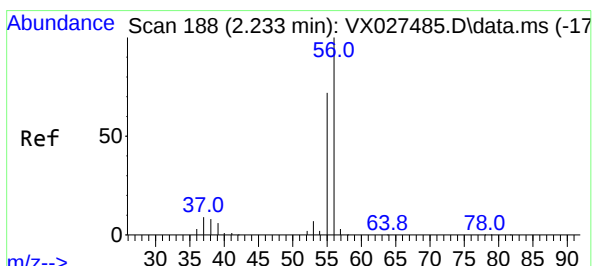
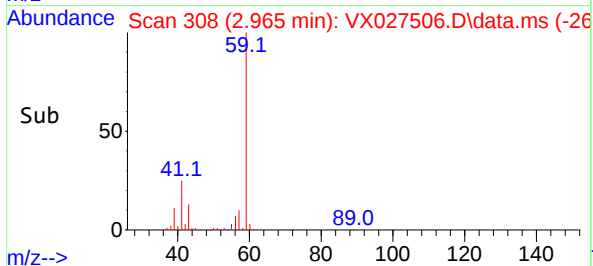
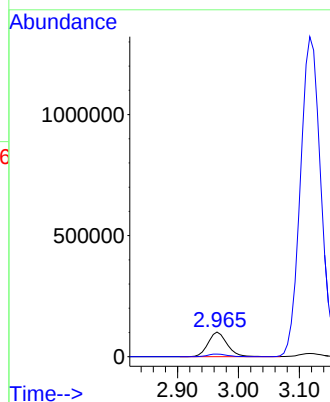
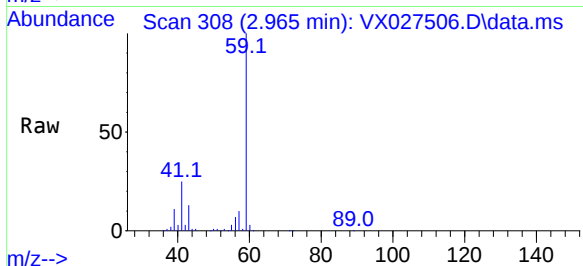
MW-112

Tgt Ion: 59 Resp: 220139

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#13

Acrolein

Concen: 0.754 ug/l

RT: 2.215 min Scan# 185

Delta R.T. -0.018 min

Lab File: VX027506.D

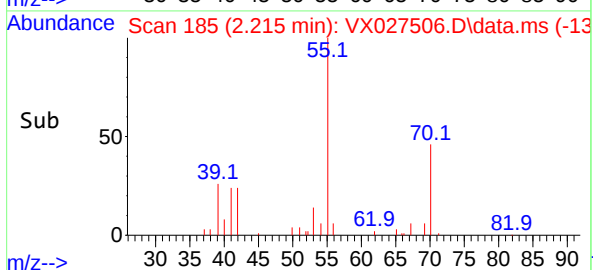
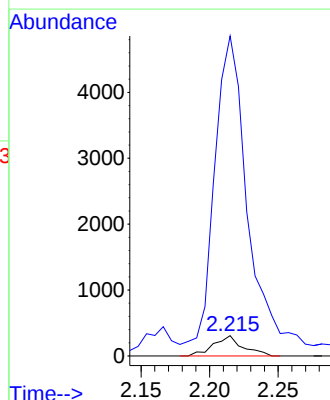
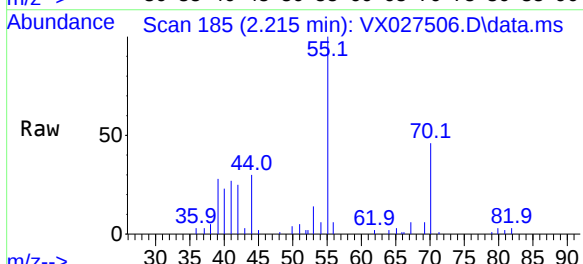
Acq: 17 Mar 2022 22:55

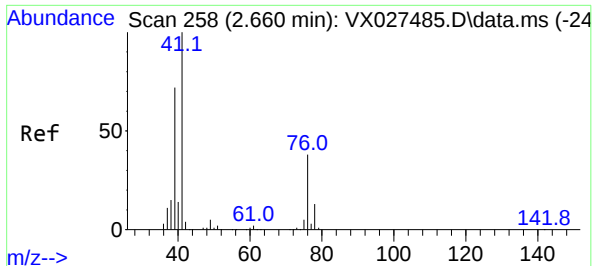
Tgt Ion: 56 Resp: 452

Ion Ratio Lower Upper

56 100

55 1870.4 55.0 82.6#

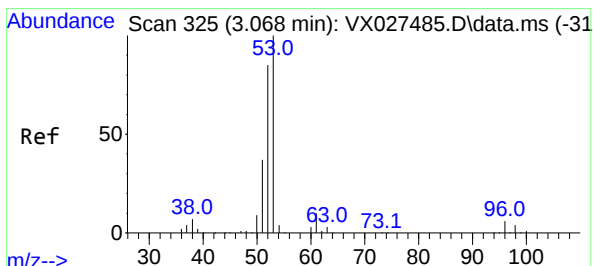
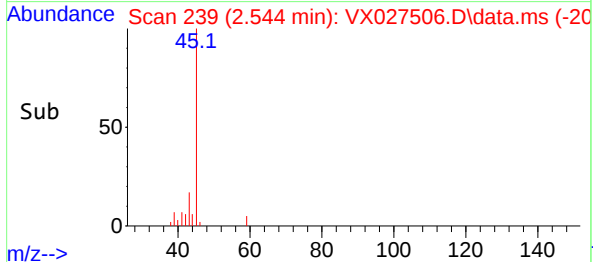
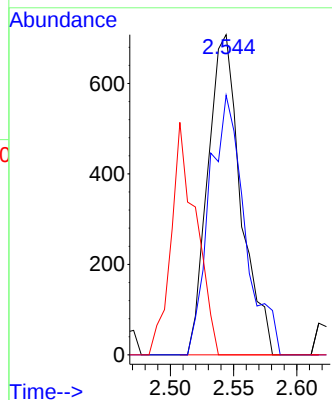
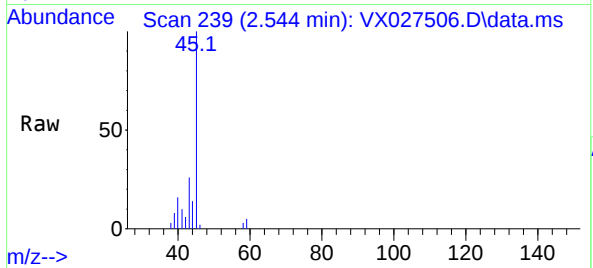




#14  
 Allyl chloride  
 Concen: 0.269 ug/l  
 RT: 2.544 min Scan# 21  
 Delta R.T. -0.116 min  
 Lab File: VX027506.D  
 Acq: 17 Mar 2022 22:55

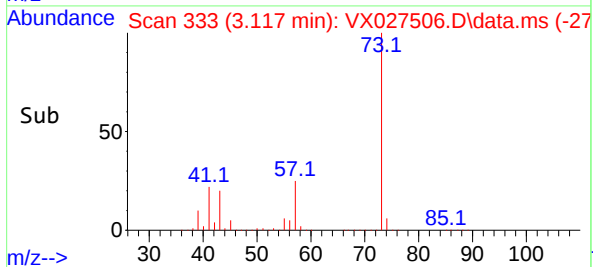
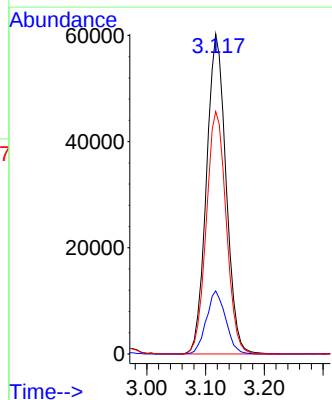
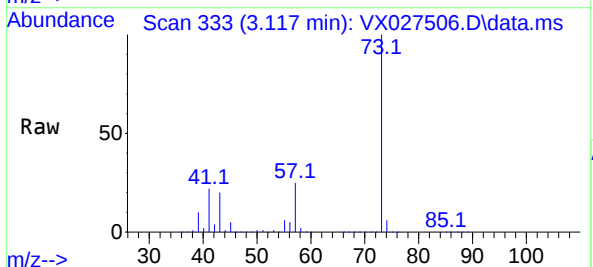
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-112

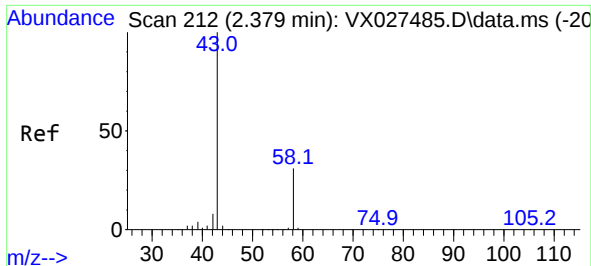
Tgt Ion: 41 Resp: 1286  
 Ion Ratio Lower Upper  
 41 100  
 39 87.2 50.4 75.6#  
 76 0.0 32.7 49.1#



#15  
 Acrylonitrile  
 Concen: 79.369 ug/l  
 RT: 3.117 min Scan# 333  
 Delta R.T. 0.049 min  
 Lab File: VX027506.D  
 Acq: 17 Mar 2022 22:55

Tgt Ion: 53 Resp: 139382  
 Ion Ratio Lower Upper  
 53 100  
 52 19.4 65.7 98.5#  
 51 77.1 28.4 42.6#

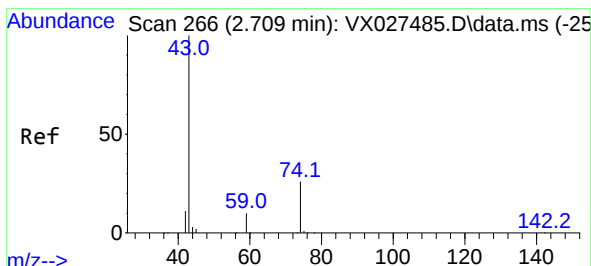
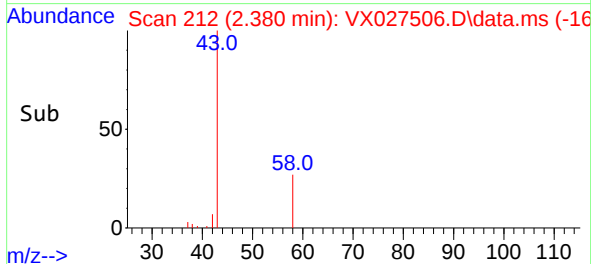
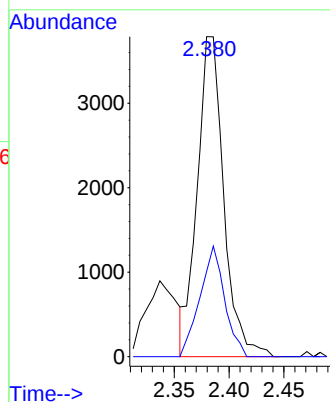
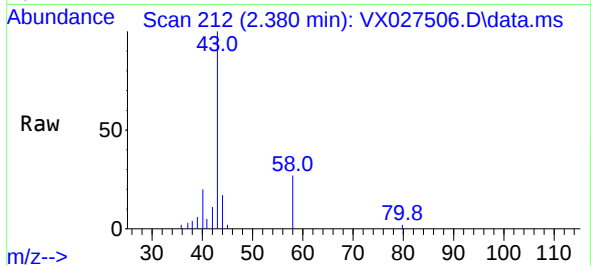




#16  
Acetone  
Concen: 3.848 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. 0.000 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

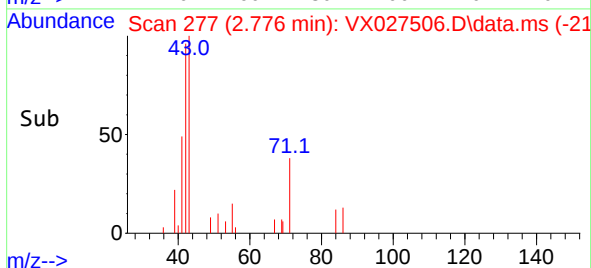
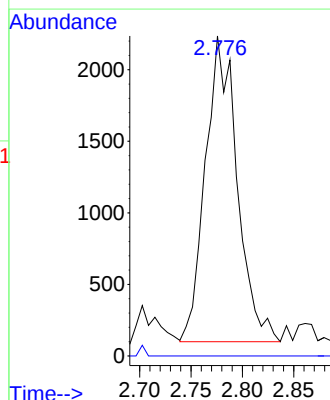
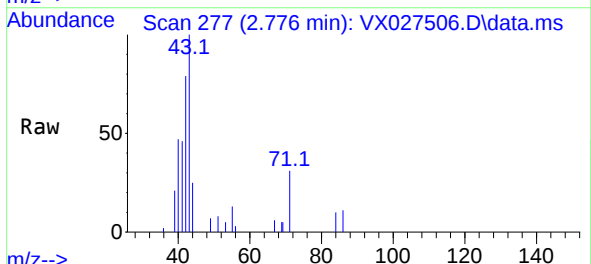
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-112

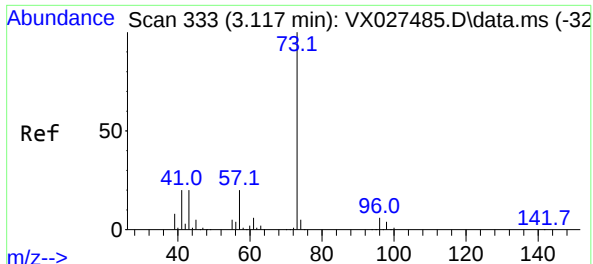
Tgt Ion: 43 Resp: 6358  
Ion Ratio Lower Upper  
43 100  
58 26.6 28.8 43.2#



#18  
Methyl Acetate  
Concen: 1.160 ug/l  
RT: 2.776 min Scan# 277  
Delta R.T. 0.067 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

Tgt Ion: 43 Resp: 4594  
Ion Ratio Lower Upper  
43 100  
74 0.0 22.8 34.2#





#19

Methyl tert-butyl Ether

Concen: 1276.195 ug/l

RT: 3.117 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX027506.D

Acq: 17 Mar 2022 22:55

Instrument :

MSVOA\_X

ClientSampleId :

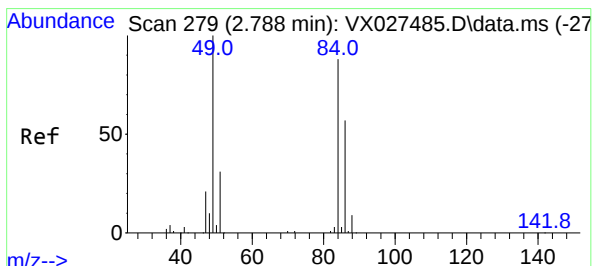
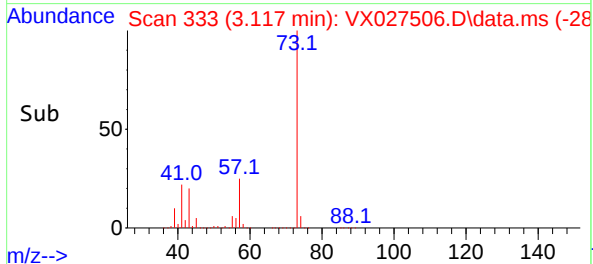
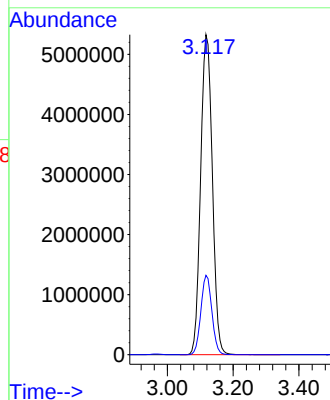
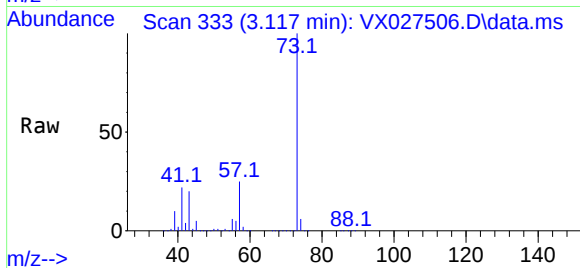
MW-112

Tgt Ion: 73 Resp:13154794

Ion Ratio Lower Upper

73 100

57 24.8 16.8 25.2



#20

Methylene Chloride

Concen: 0.231 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.006 min

Lab File: VX027506.D

Acq: 17 Mar 2022 22:55

Tgt Ion: 84 Resp: 822

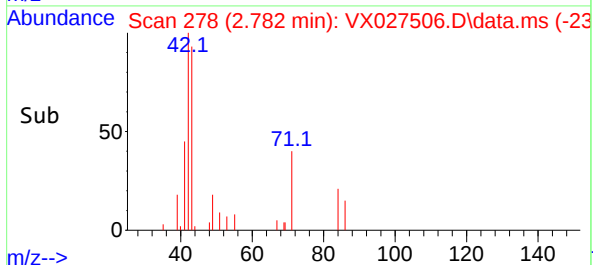
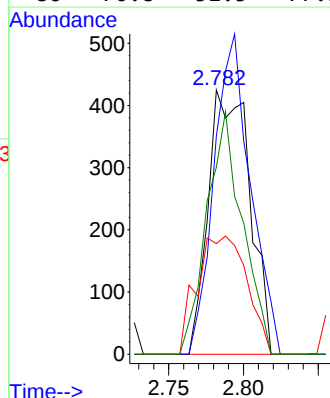
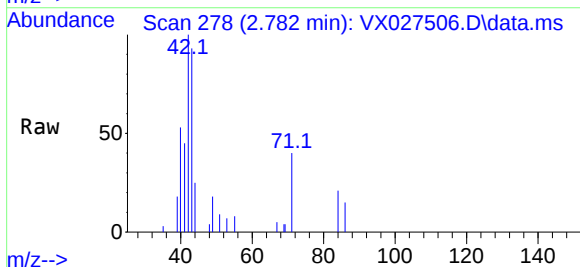
Ion Ratio Lower Upper

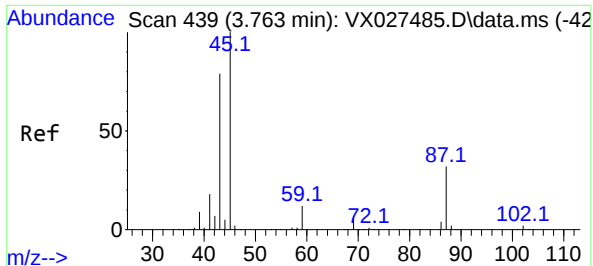
84 100

49 82.6 85.5 128.3#

51 41.9 26.6 39.8#

86 70.8 51.5 77.3



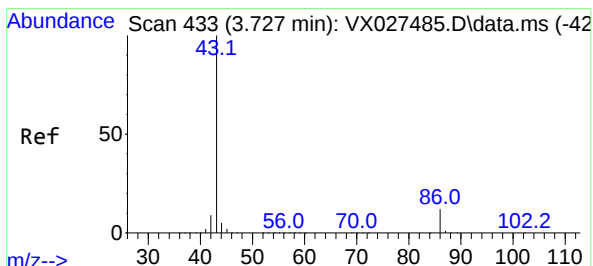
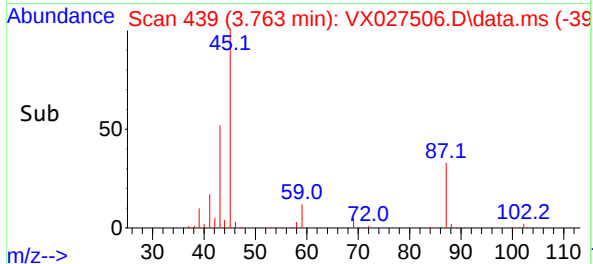
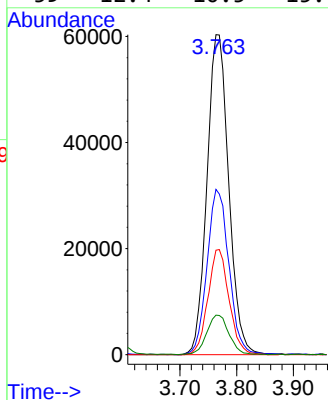
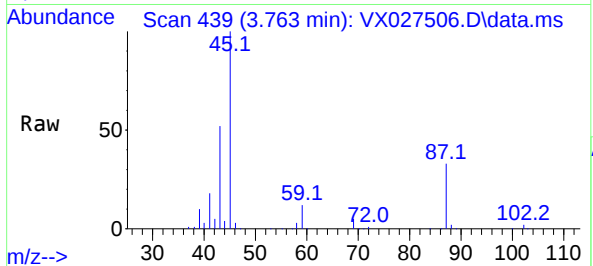


#22  
Diisopropyl ether  
Concen: 17.229 ug/l  
RT: 3.763 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-112

Tgt Ion: 45 Resp: 160855

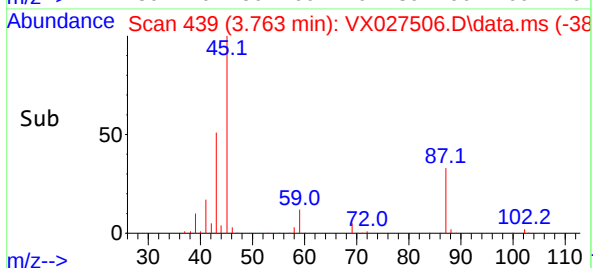
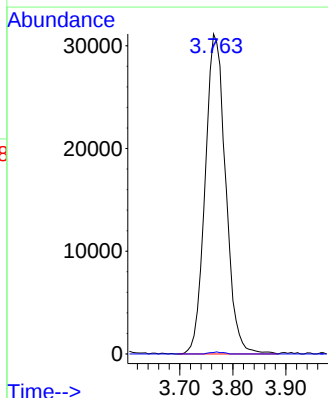
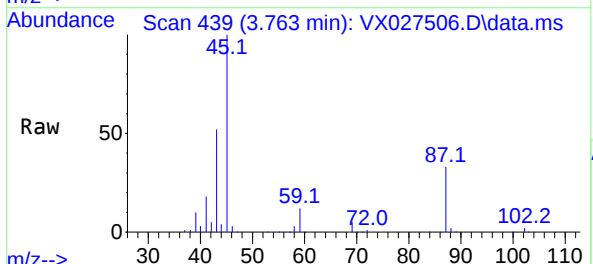
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 45  | 100   |       |       |
| 43  | 51.6  | 50.8  | 76.2  |
| 87  | 32.7  | 26.6  | 39.8  |
| 59  | 12.4  | 10.5  | 15.7  |

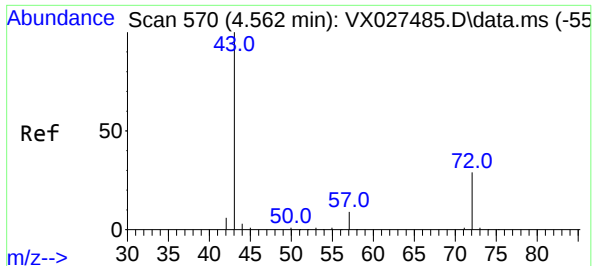


#23  
Vinyl Acetate  
Concen: 10.297 ug/l  
RT: 3.763 min Scan# 439  
Delta R.T. 0.037 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

Tgt Ion: 43 Resp: 83600

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 0.5   | 10.8  | 16.2# |





#25

2-Butanone

Concen: 0.270 ug/l

RT: 4.586 min Scan# 5

Delta R.T. 0.024 min

Lab File: VX027506.D

Acq: 17 Mar 2022 22:55

Instrument :

MSVOA\_X

ClientSampleId :

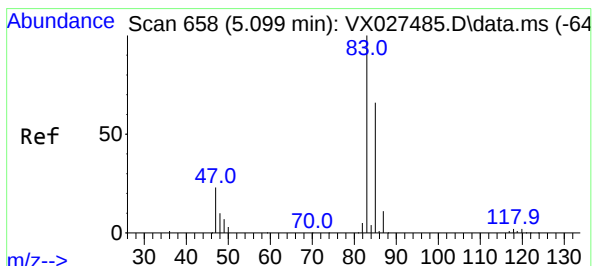
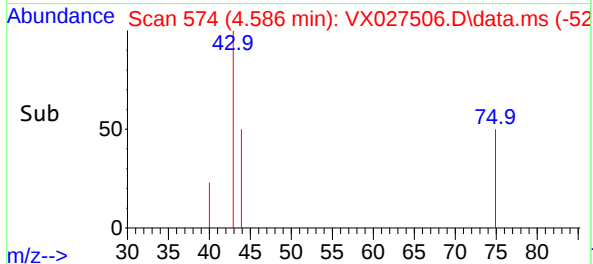
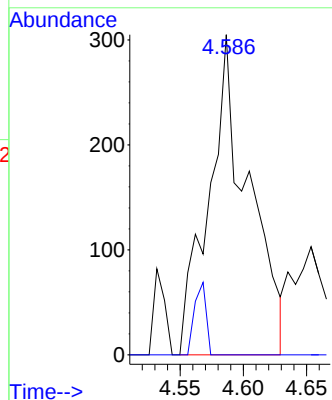
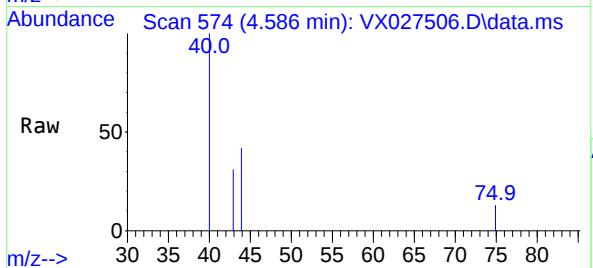
MW-112

Tgt Ion: 43 Resp: 670

Ion Ratio Lower Upper

43 100

72 0.0 24.4 36.6#



#30

Chloroform

Concen: 0.403 ug/l

RT: 5.111 min Scan# 660

Delta R.T. 0.012 min

Lab File: VX027506.D

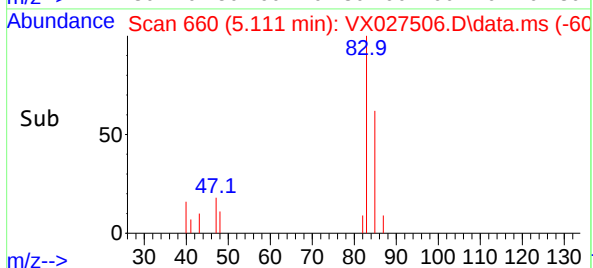
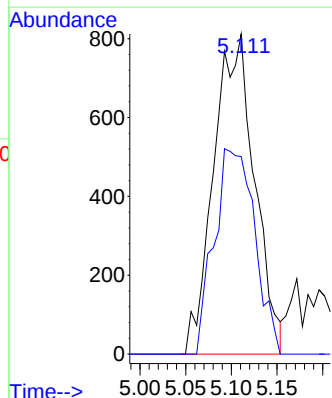
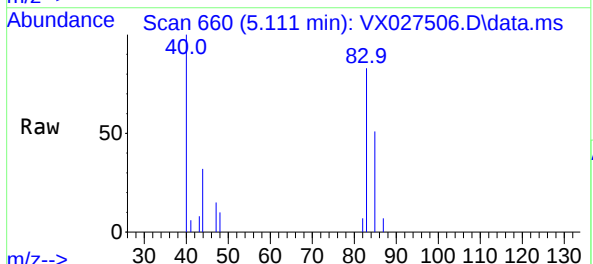
Acq: 17 Mar 2022 22:55

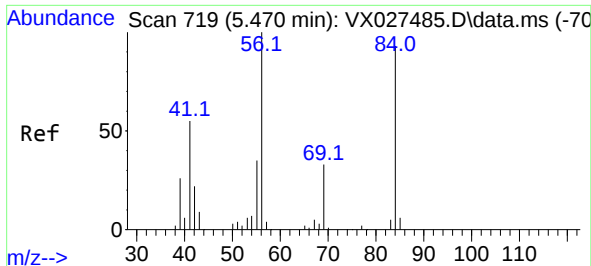
Tgt Ion: 83 Resp: 2526

Ion Ratio Lower Upper

83 100

85 61.7 52.7 79.1

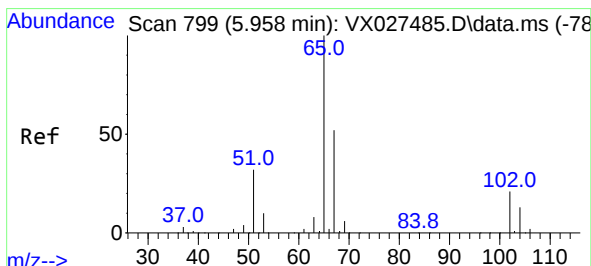
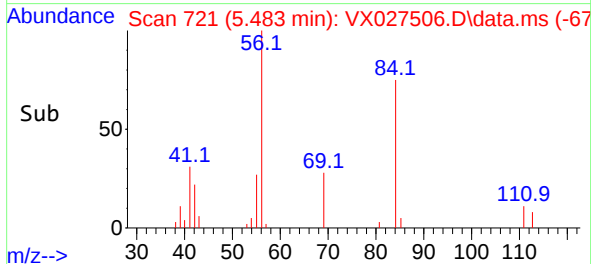
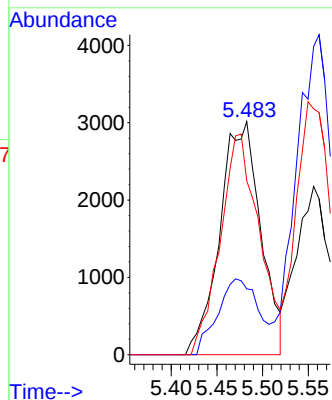
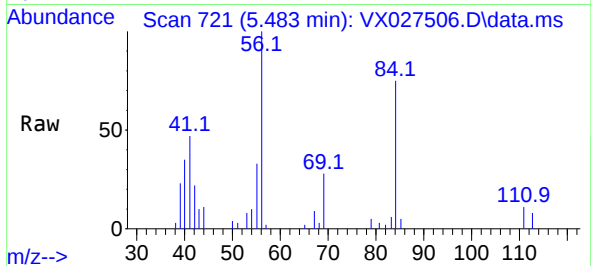




#31  
Cyclohexane  
Concen: 1.859 ug/l  
RT: 5.483 min Scan# 719  
Delta R.T. 0.012 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

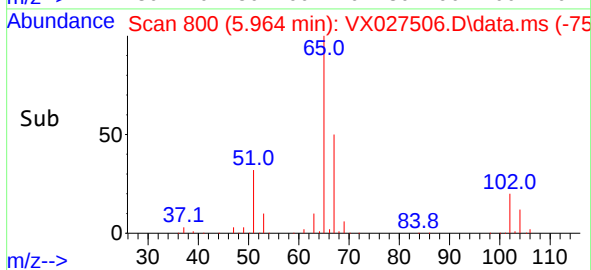
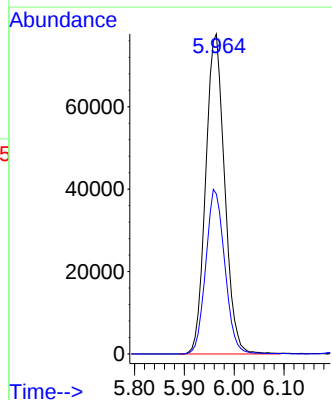
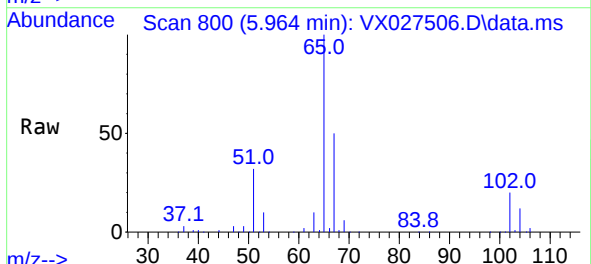
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-112

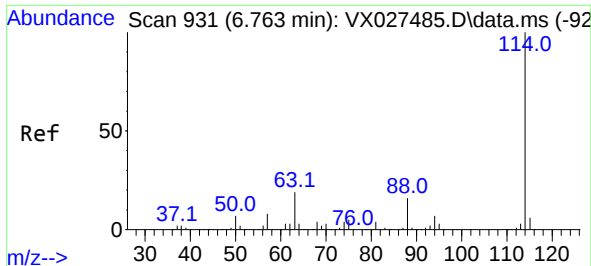
Tgt Ion: 56 Resp: 9357  
Ion Ratio Lower Upper  
56 100  
69 28.2 26.7 40.1  
84 74.5 77.2 115.8#



#33  
1,2-Dichloroethane-d4  
Concen: 50.615 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. 0.006 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

Tgt Ion: 65 Resp: 205150  
Ion Ratio Lower Upper  
65 100  
67 51.6 0.0 107.4

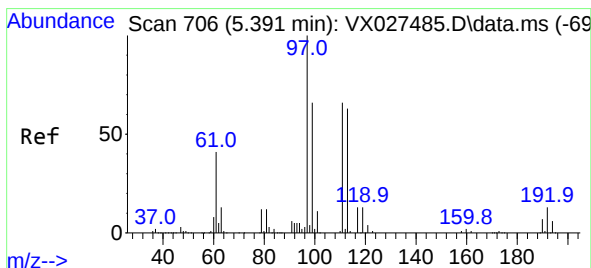
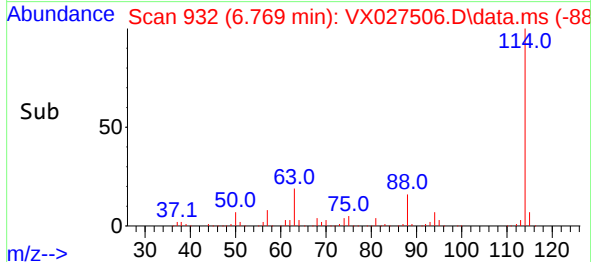
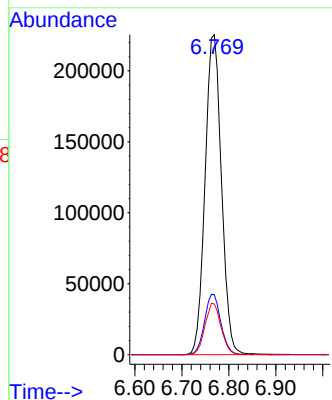
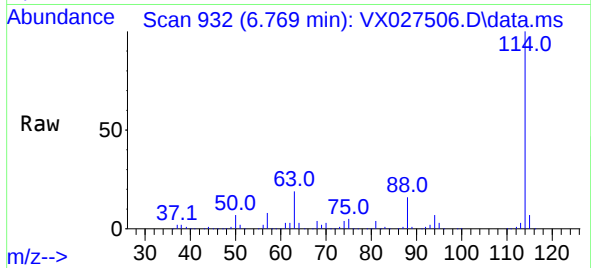




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

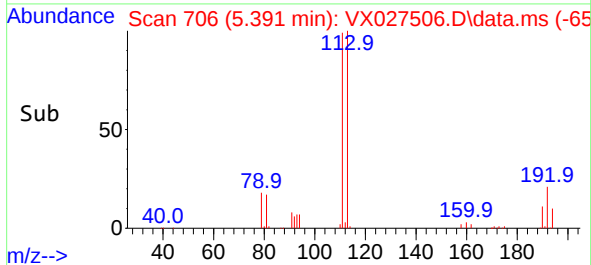
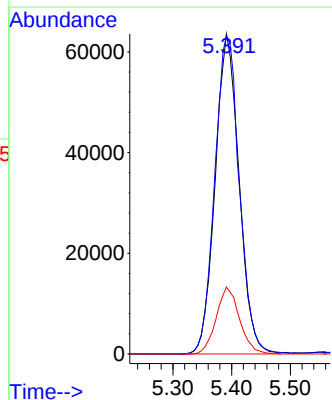
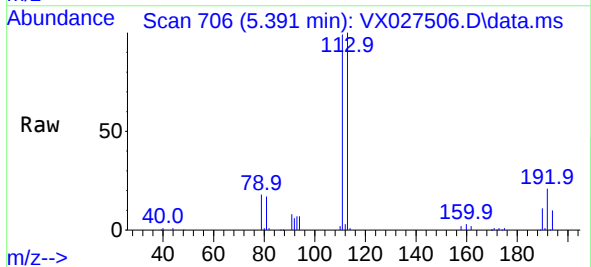
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-112

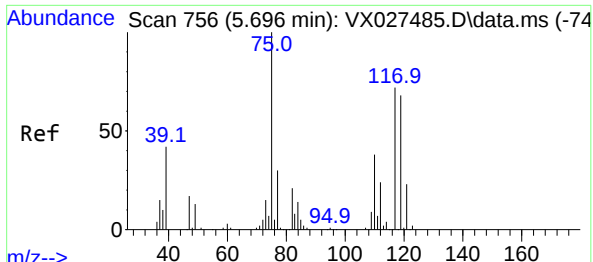
Tgt Ion:114 Resp: 544201  
Ion Ratio Lower Upper  
114 100  
63 18.8 0.0 36.8  
88 15.9 0.0 32.4



#35  
Dibromofluoromethane  
Concen: 51.203 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.000 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

Tgt Ion:113 Resp: 179275  
Ion Ratio Lower Upper  
113 100  
111 102.8 82.8 124.2  
192 20.4 16.9 25.3

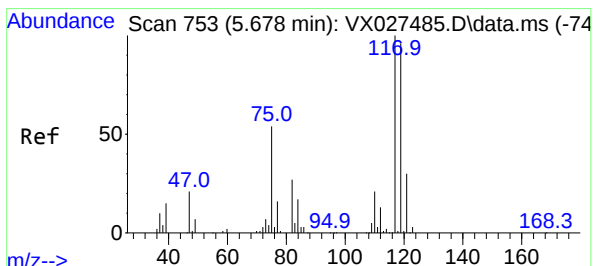
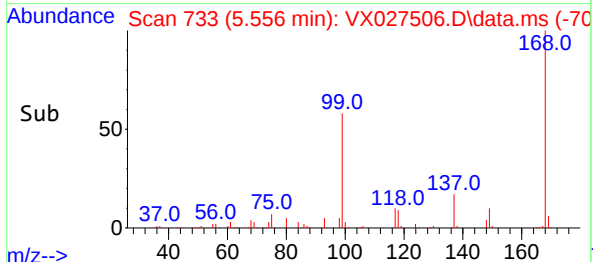
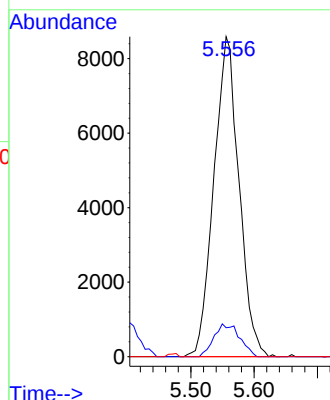
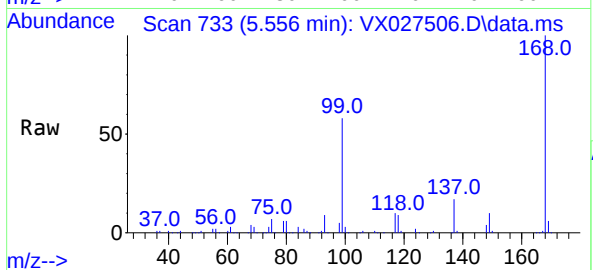




#36  
1,1-Dichloropropene  
Concen: 4.942 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.140 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

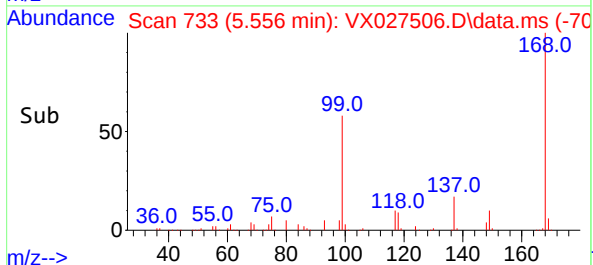
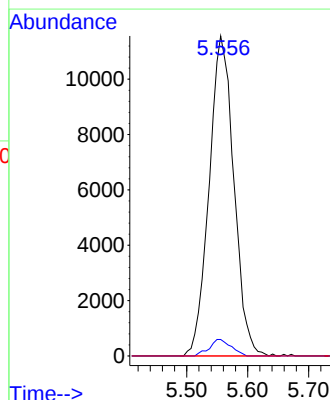
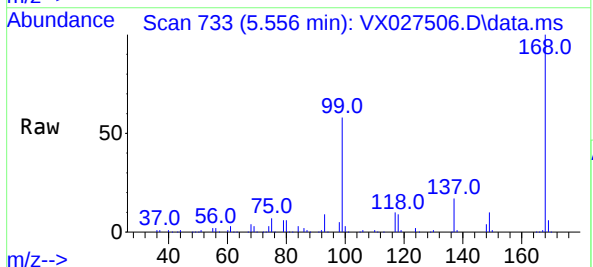
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-112

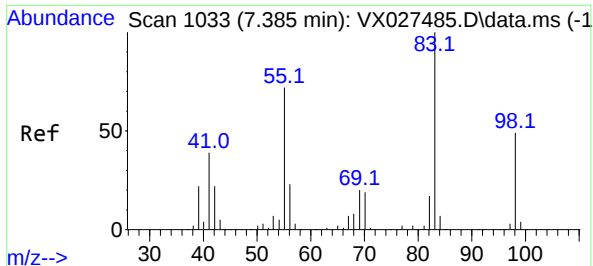
Tgt Ion: 75 Resp: 23648  
Ion Ratio Lower Upper  
75 100  
110 10.5 18.3 54.8#  
77 0.0 24.8 37.2#



#38  
Carbon Tetrachloride  
Concen: 5.953 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.122 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

Tgt Ion: 117 Resp: 32584  
Ion Ratio Lower Upper  
117 100  
119 5.2 77.3 115.9#  
121 0.0 24.2 36.2#

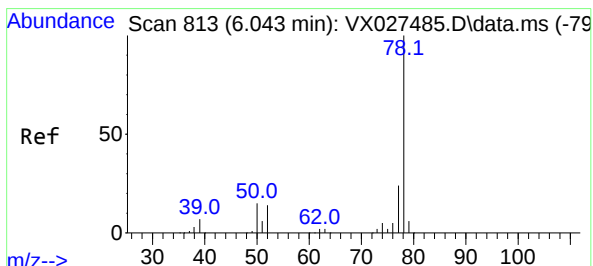
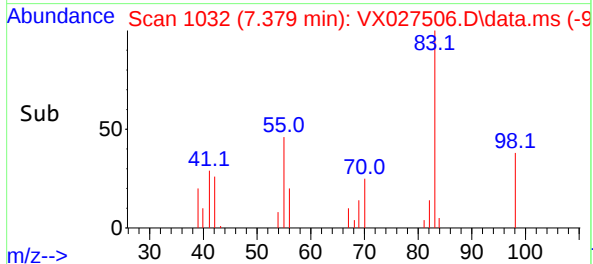
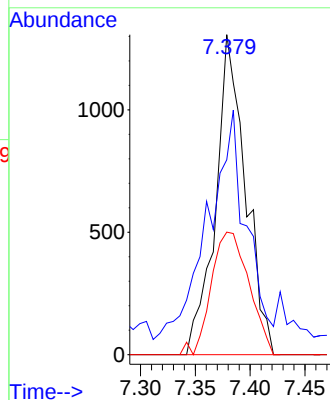
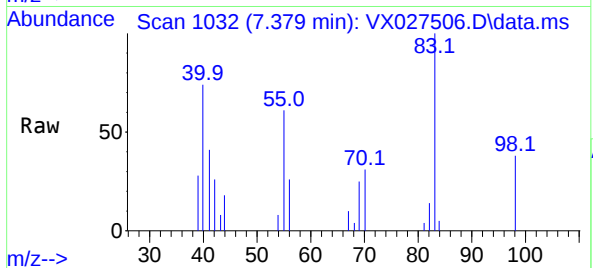




#39  
Methylcyclohexane  
Concen: 0.415 ug/l  
RT: 7.379 min Scan# 10  
Delta R.T. -0.006 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

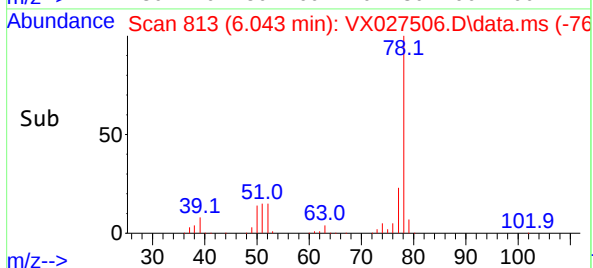
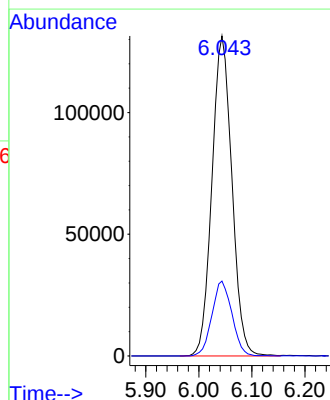
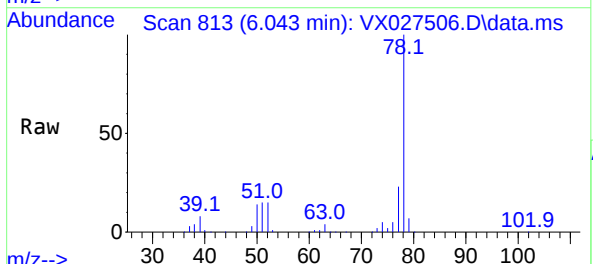
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-112

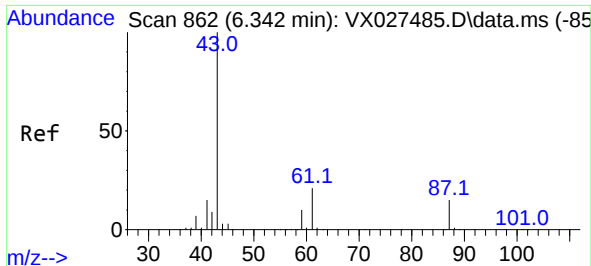
Tgt Ion: 83 Resp: 2495  
Ion Ratio Lower Upper  
83 100  
55 48.7 54.6 81.8#  
98 38.3 37.4 56.2



#40  
Benzene  
Concen: 25.022 ug/l  
RT: 6.043 min Scan# 813  
Delta R.T. 0.000 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

Tgt Ion: 78 Resp: 343476  
Ion Ratio Lower Upper  
78 100  
77 23.4 19.3 28.9

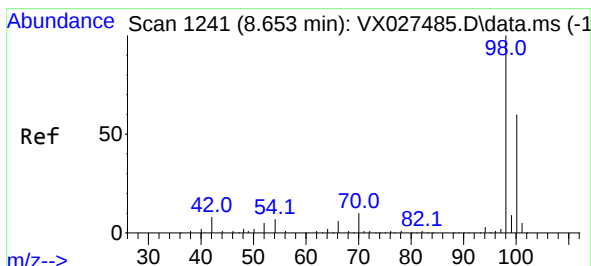
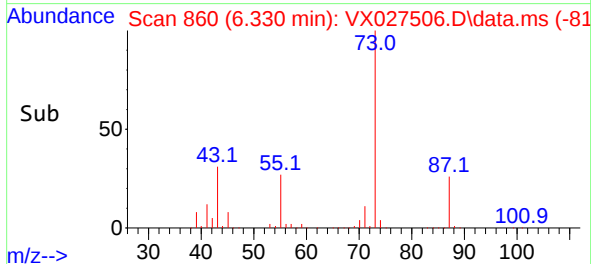
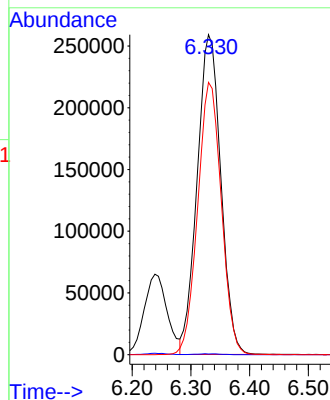
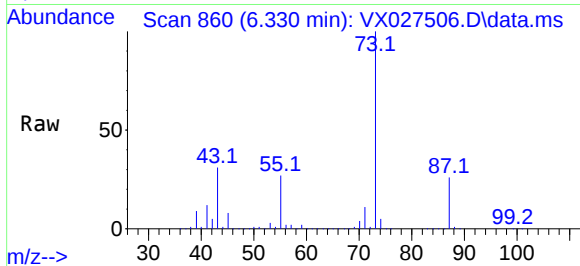




#43  
Isopropyl Acetate  
Concen: 94.469 ug/l  
RT: 6.330 min Scan# 860  
Delta R.T. -0.012 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

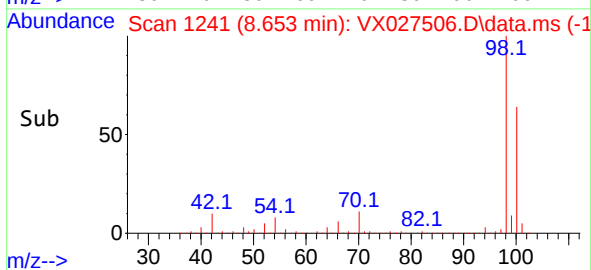
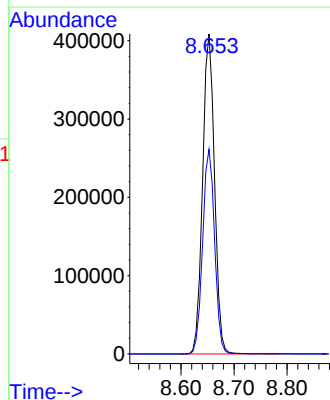
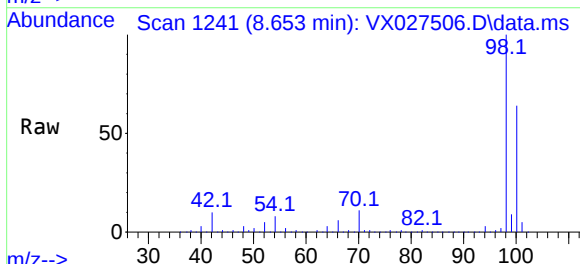
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-112

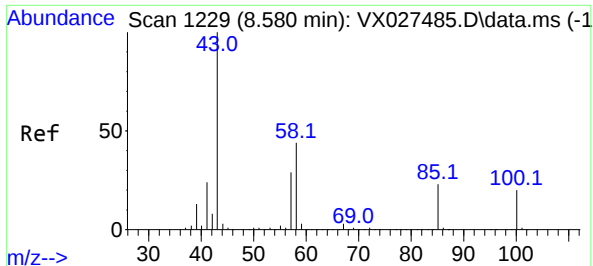
Tgt Ion: 43 Resp: 724887  
Ion Ratio Lower Upper  
43 100  
61 0.3 18.5 27.7#  
87 85.1 13.0 19.6#



#50  
Toluene-d8  
Concen: 48.162 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.000 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

Tgt Ion: 98 Resp: 638111  
Ion Ratio Lower Upper  
98 100  
100 64.3 52.6 78.8

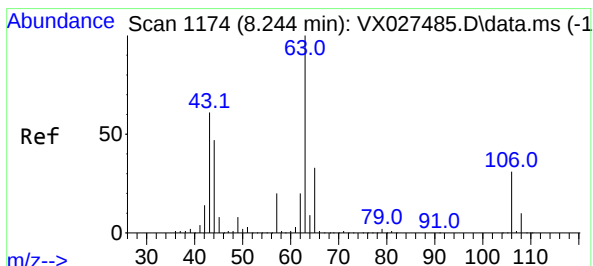
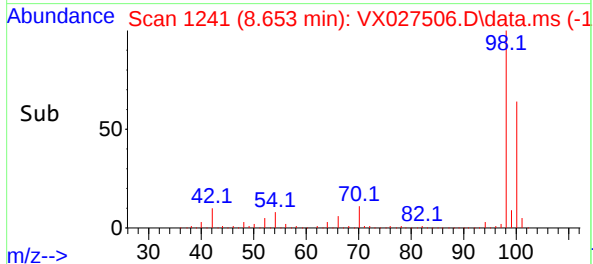
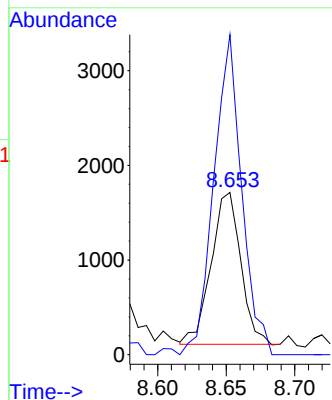
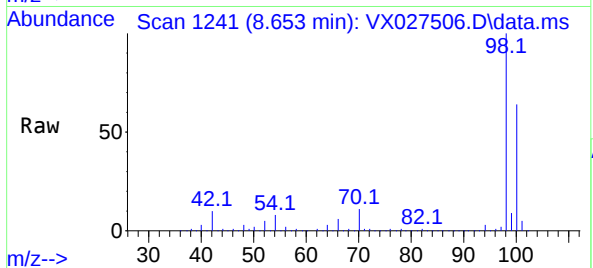




#51  
4-Methyl-2-Pentanone  
Concen: 0.493 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. 0.073 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

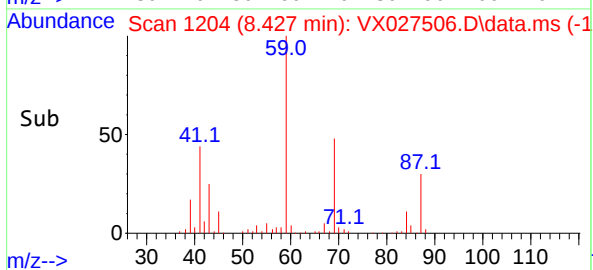
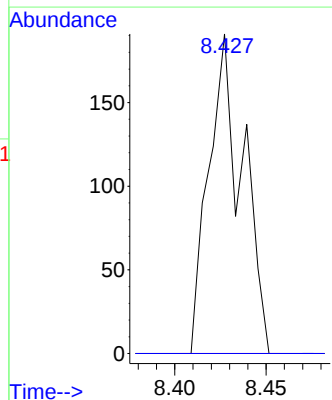
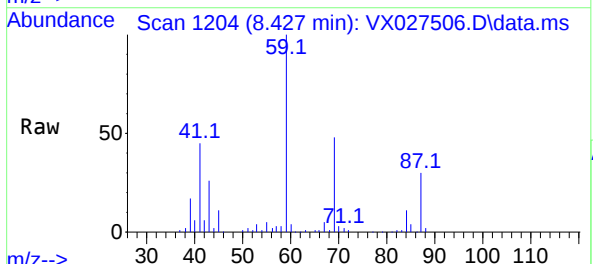
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-112

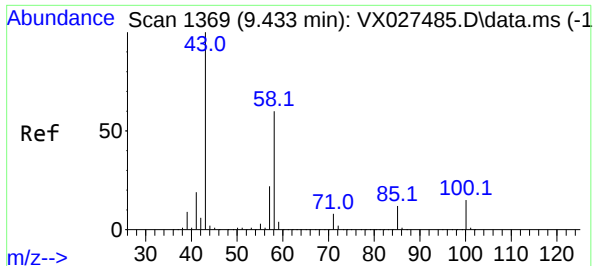
Tgt Ion: 43 Resp: 2417  
Ion Ratio Lower Upper  
43 100  
58 199.7 36.1 54.1#



#58  
2-Chloroethyl Vinyl ether  
Concen: Below Cal  
RT: 8.427 min Scan# 1204  
Delta R.T. 0.183 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

Tgt Ion: 63 Resp: 247  
Ion Ratio Lower Upper  
63 100  
106 0.0 23.9 35.9#





#59

2-Hexanone

Concen: 2.077 ug/l

RT: 9.457 min Scan# 11

Delta R.T. 0.024 min

Lab File: VX027506.D

Acq: 17 Mar 2022 22:55

Instrument :

MSVOA\_X

ClientSampleId :

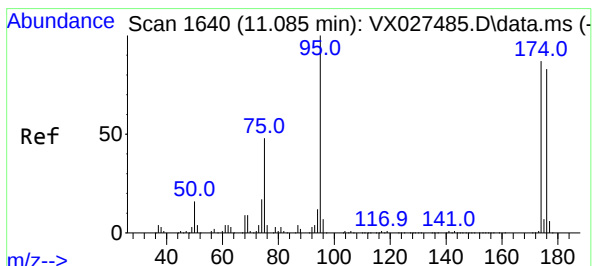
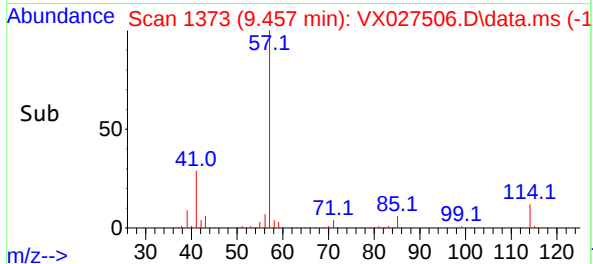
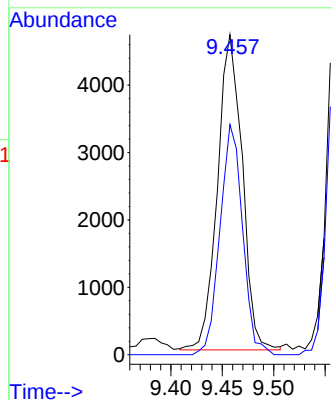
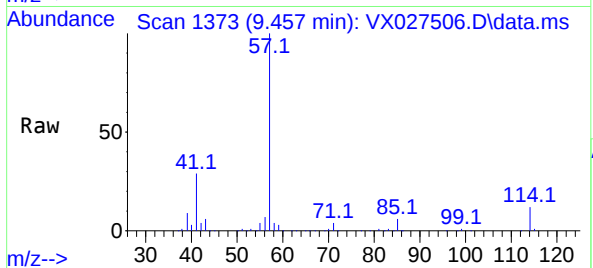
MW-112

Tgt Ion: 43 Resp: 7835

Ion Ratio Lower Upper

43 100

58 66.5 31.9 95.7



#62

4-Bromofluorobenzene

Concen: 46.636 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. 0.000 min

Lab File: VX027506.D

Acq: 17 Mar 2022 22:55

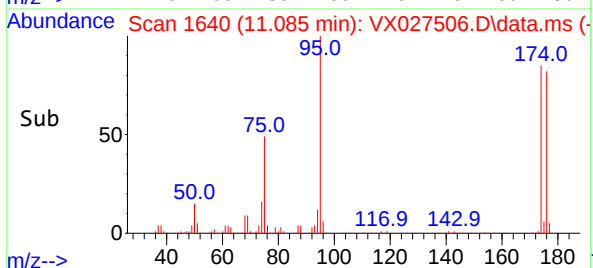
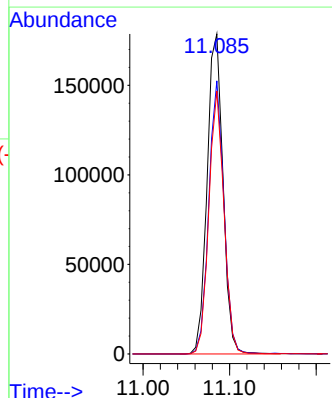
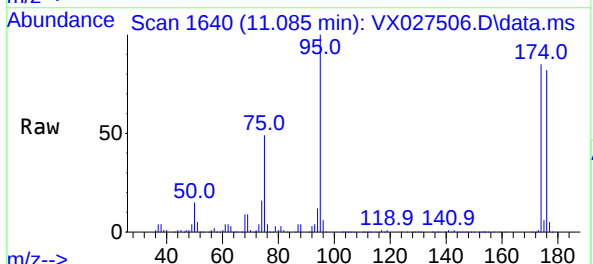
Tgt Ion: 95 Resp: 227109

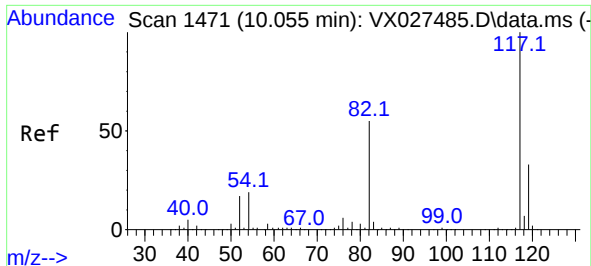
Ion Ratio Lower Upper

95 100

174 81.6 0.0 163.0

176 78.5 0.0 155.0

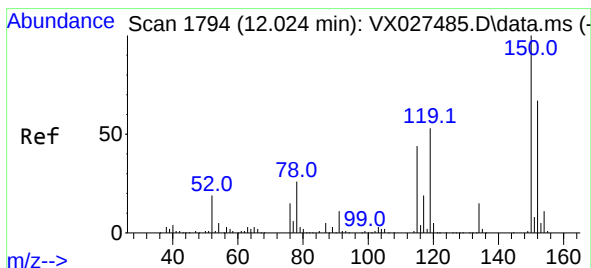
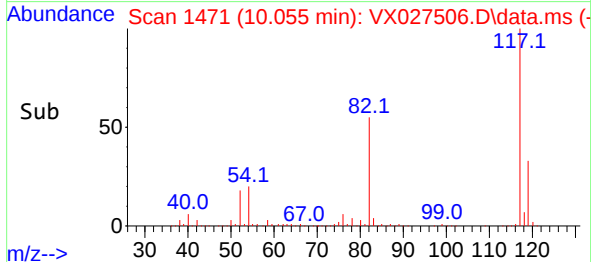
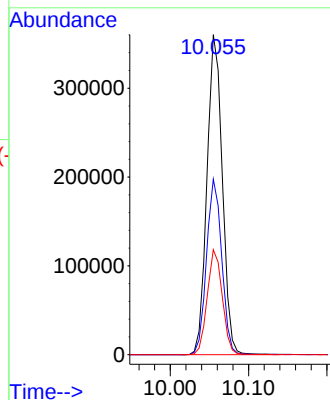
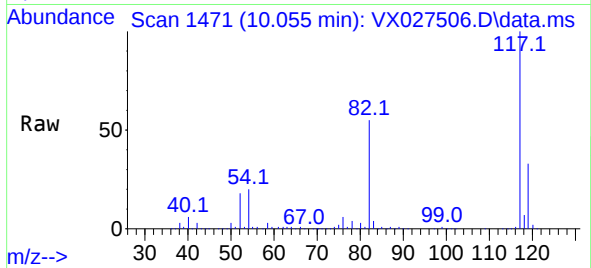




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

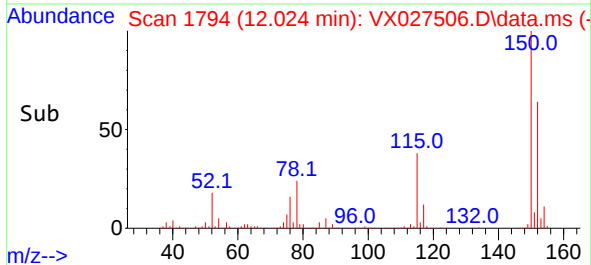
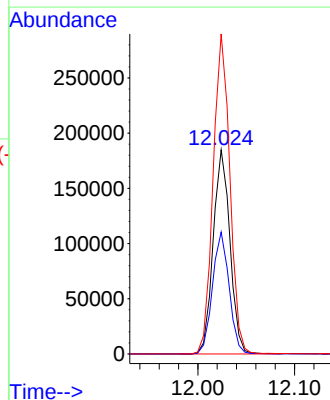
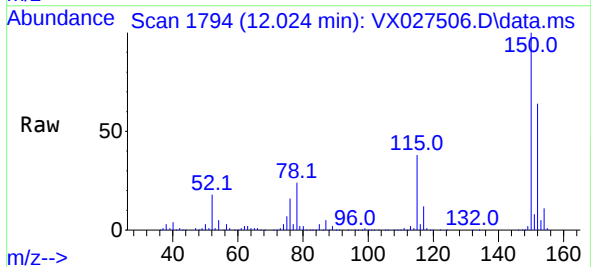
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-112

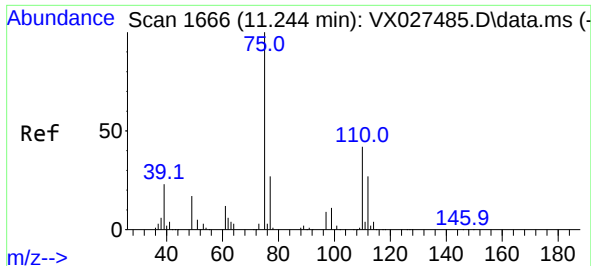
Tgt Ion:117 Resp: 489557  
Ion Ratio Lower Upper  
117 100  
82 54.9 41.8 62.8  
119 32.8 24.8 37.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

Tgt Ion:152 Resp: 222589  
Ion Ratio Lower Upper  
152 100  
115 59.4 37.5 112.7  
150 156.8 0.0 338.2

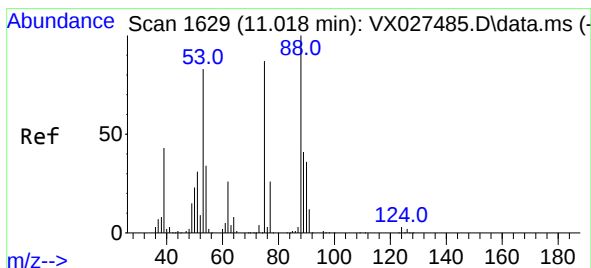
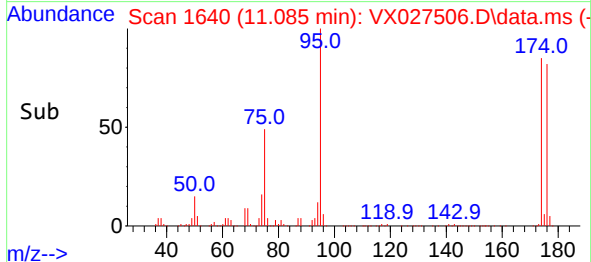
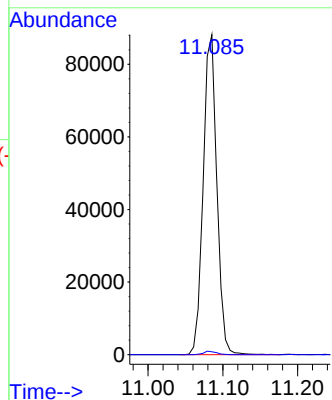
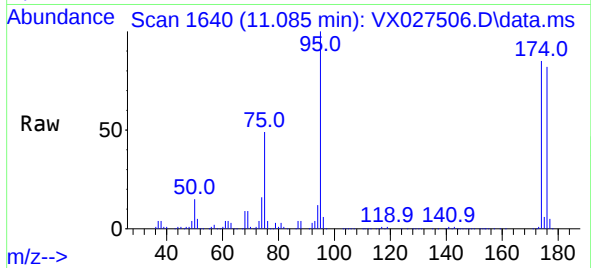




#76  
1,2,3-Trichloropropane  
Concen: 24.009 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-112

Tgt Ion: 75 Resp: 111783  
Ion Ratio Lower Upper  
75 100  
77 1.0 19.4 58.2#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 72.917 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.067 min  
Lab File: VX027506.D  
Acq: 17 Mar 2022 22:55

Tgt Ion: 75 Resp: 111783  
Ion Ratio Lower Upper  
75 100  
53 0.0 69.0 103.4#  
89 0.0 37.0 55.6#

