

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX072922\  
 Data File : VX030305.D  
 Acq On : 29 Jul 2022 16:09  
 Operator : JC/MD  
 Sample : N3861-08  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-16R

Quant Time: Aug 01 05:14:56 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072522W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 25 16:49:17 2022  
 Response via : Initial Calibration

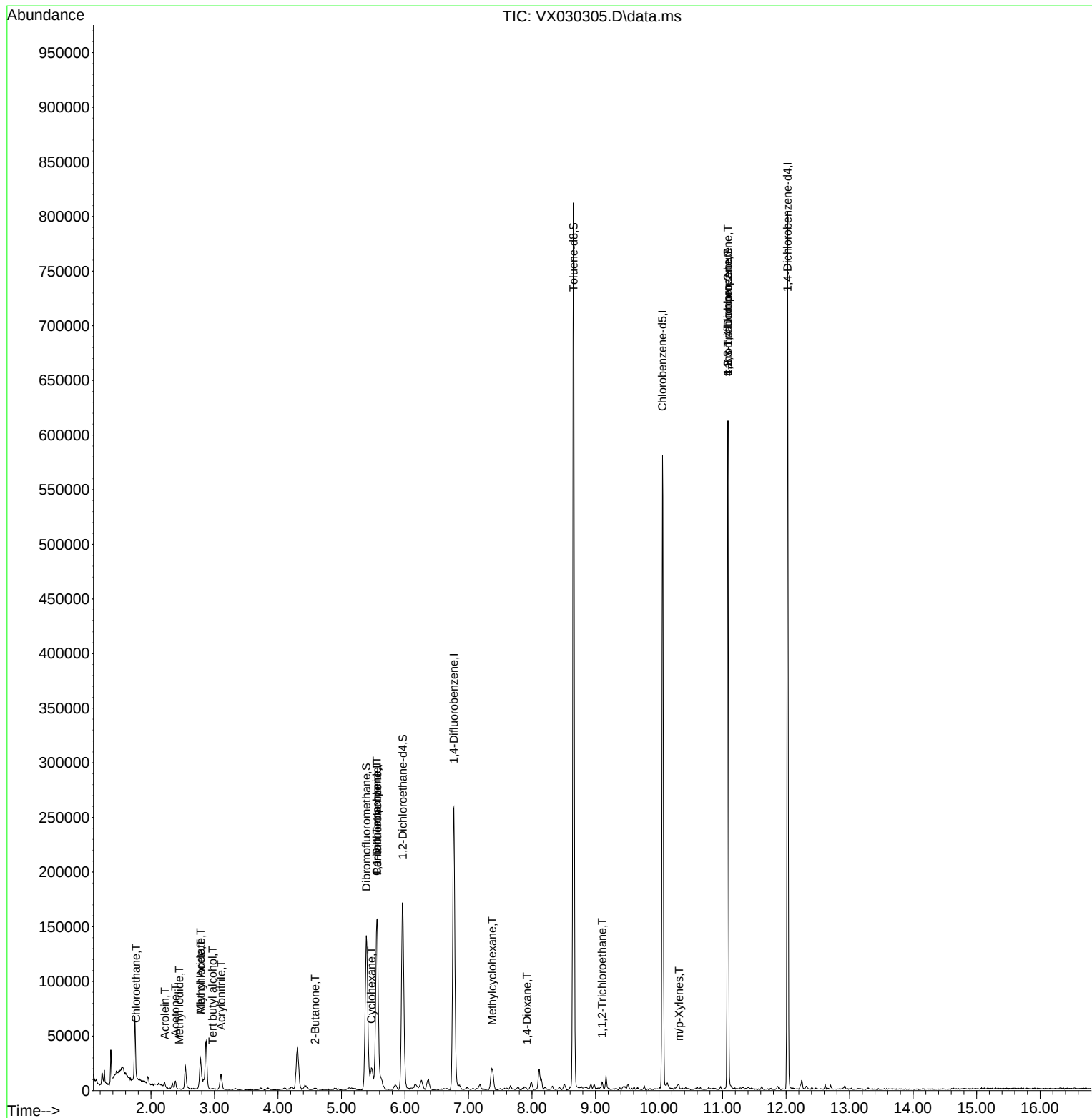
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 5.562  | 168   | 145887   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769  | 114   | 261839   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 262567   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 146689   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.964  | 65    | 158801   | 54.157    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 108.320% |          |
| 35) Dibromofluoromethane      | 5.391  | 113   | 124840   | 49.875    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 99.760%  |          |
| 50) Toluene-d8                | 8.653  | 98    | 470373   | 48.525    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 97.040%  |          |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 166875   | 46.387    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 92.780%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 5) Bromomethane               | 1.617  | 94    | 281      | Below Cal | #          | 60       |
| 6) Chloroethane               | 1.764  | 64    | 442      | 0.322     | ug/l #     | 41       |
| 10) Methyl Iodide             | 2.447  | 142   | 158      | 1.592     | ug/l #     | 45       |
| 11) Tert butyl alcohol        | 2.971  | 59    | 680      | 0.951     | ug/l #     | 74       |
| 13) Acrolein                  | 2.221  | 56    | 170      | 0.967     | ug/l #     | 1        |
| 14) Allyl chloride            | 2.782  | 41    | 7310     | 1.554     | ug/l #     | 71       |
| 15) Acrylonitrile             | 3.105  | 53    | 503      | 0.285     | ug/l #     | 36       |
| 16) Acetone                   | 2.386  | 43    | 7135     | 4.753     | ug/l       | 91       |
| 18) Methyl Acetate            | 2.782  | 43    | 19636    | 4.422     | ug/l #     | 51       |
| 20) Methylene Chloride        | 2.788  | 84    | 923      | Below Cal | #          | 86       |
| 25) 2-Butanone                | 4.586  | 43    | 1797     | 0.712     | ug/l #     | 75       |
| 31) Cyclohexane               | 5.470  | 56    | 13856    | 3.255     | ug/l #     | 77       |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 12792    | 3.551     | ug/l #     | 48       |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 14923    | 4.438     | ug/l #     | 16       |
| 39) Methylcyclohexane         | 7.373  | 83    | 5781     | 1.243     | ug/l #     | 58       |
| 49) 1,4-Dioxane               | 7.921  | 88    | 19       | 0.224     | ug/l #     | 1        |
| 55) 1,1,2-Trichloroethane     | 9.104  | 97    | 2090     | 0.710     | ug/l #     | 15       |
| 67) Ethyl Benzene             | 10.201 | 91    | 303      | Below Cal | #          | 80       |
| 68) m/p-Xylenes               | 10.317 | 106   | 1019     | 0.211     | ug/l       | 98       |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75    | 85542    | 22.123    | ug/l #     | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75    | 85542    | 66.368    | ug/l #     | 13       |
| -----                         |        |       |          |           |            |          |

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

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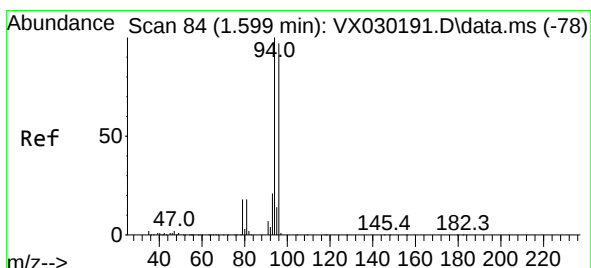
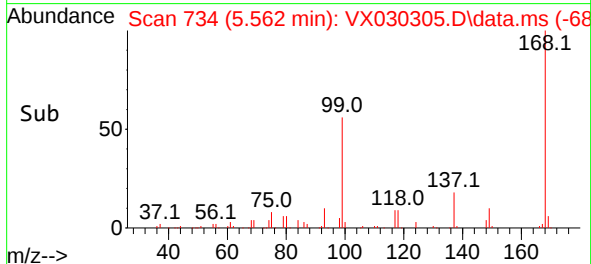
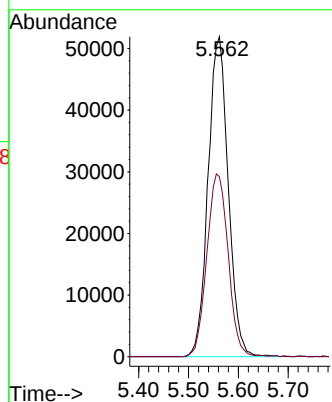
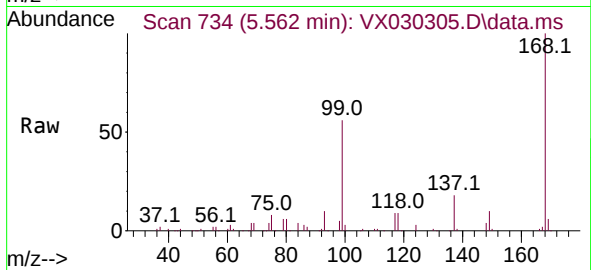




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX030305.D  
Acq: 29 Jul 2022 16:09

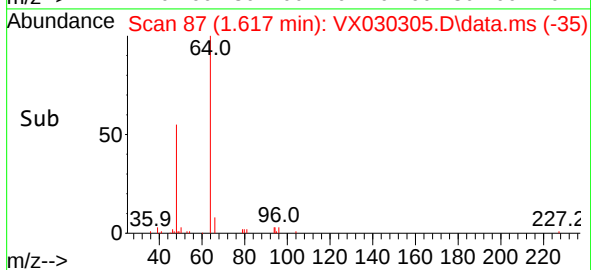
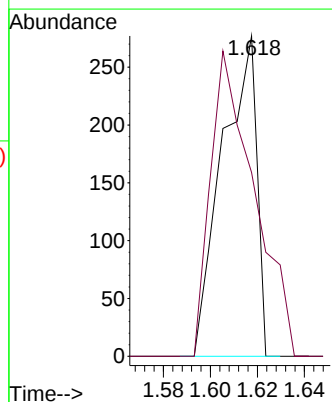
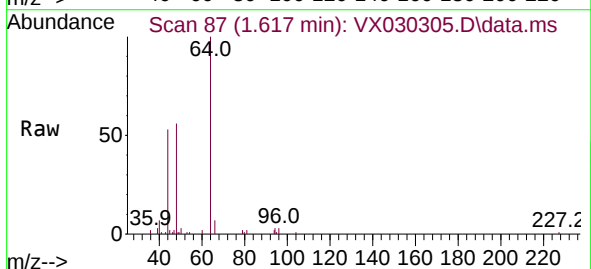
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-16R

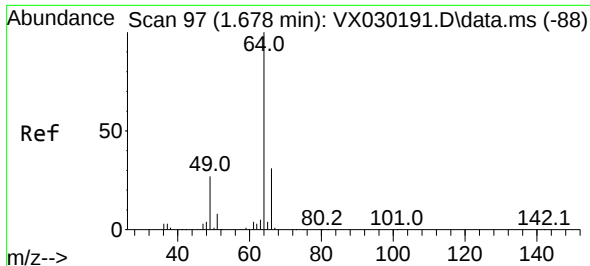
Tgt Ion:168 Resp: 145887  
Ion Ratio Lower Upper  
168 100  
99 56.2 44.0 66.0



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.617 min Scan# 87  
Delta R.T. 0.018 min  
Lab File: VX030305.D  
Acq: 29 Jul 2022 16:09

Tgt Ion: 94 Resp: 281  
Ion Ratio Lower Upper  
94 100  
96 57.4 76.9 115.3#

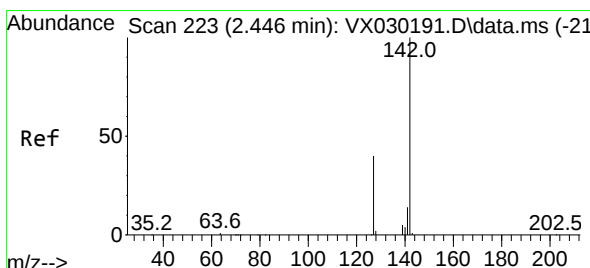
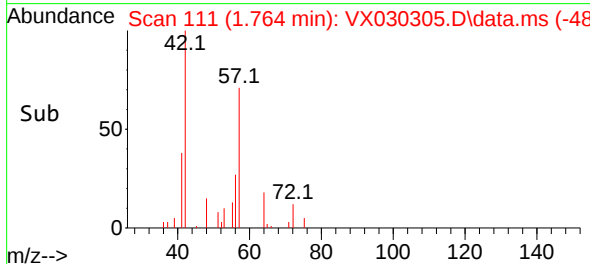
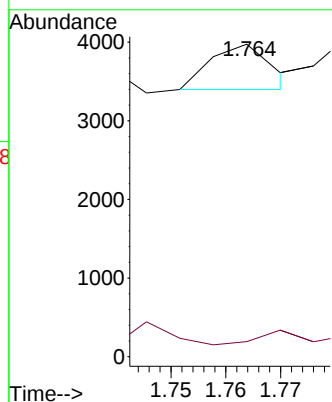
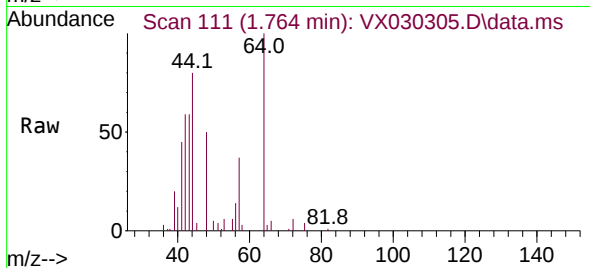




#6  
Chloroethane  
Concen: 0.322 ug/l  
RT: 1.764 min Scan# 111  
Delta R.T. 0.086 min  
Lab File: VX030305.D  
Acq: 29 Jul 2022 16:09

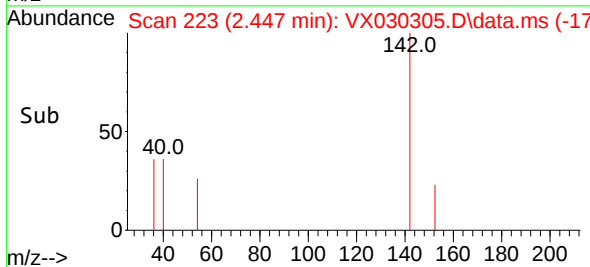
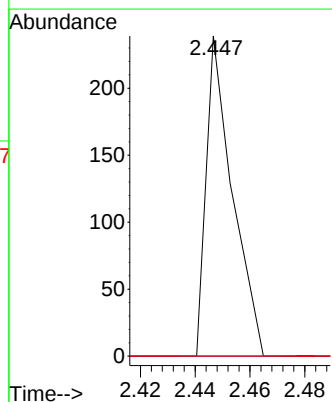
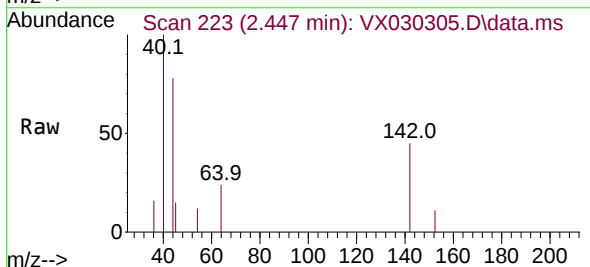
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-16R

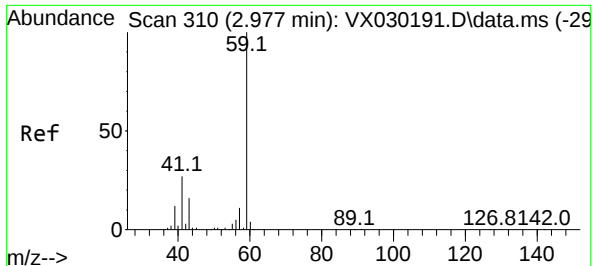
Tgt Ion: 64 Resp: 442  
Ion Ratio Lower Upper  
64 100  
66 0.0 27.2 40.8#



#10  
Methyl Iodide  
Concen: 1.592 ug/l  
RT: 2.447 min Scan# 223  
Delta R.T. 0.001 min  
Lab File: VX030305.D  
Acq: 29 Jul 2022 16:09

Tgt Ion: 142 Resp: 158  
Ion Ratio Lower Upper  
142 100  
127 0.0 30.2 45.2#  
141 0.0 11.3 16.9#





#11

Tert butyl alcohol

Concen: 0.951 ug/l

RT: 2.971 min Scan# 309

Delta R.T. -0.006 min

Lab File: VX030305.D

Acq: 29 Jul 2022 16:09

Instrument :

MSVOA\_X

ClientSampleId :

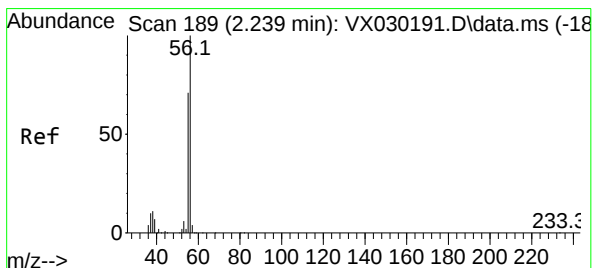
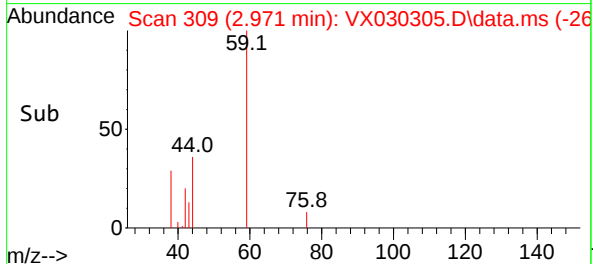
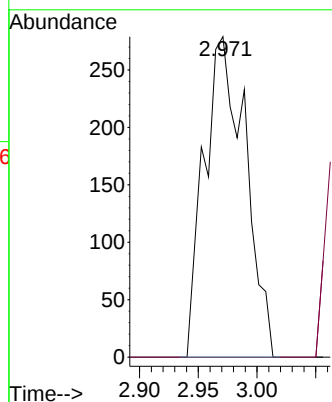
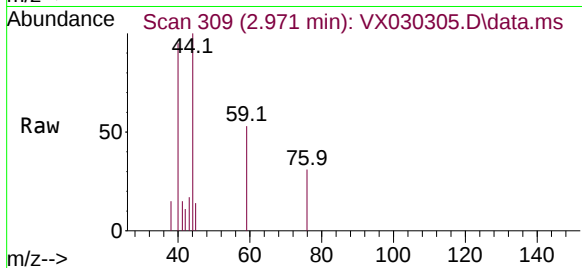
MW-16R

Tgt Ion: 59 Resp: 680

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.2#



#13

Acrolein

Concen: 0.967 ug/l

RT: 2.221 min Scan# 186

Delta R.T. -0.018 min

Lab File: VX030305.D

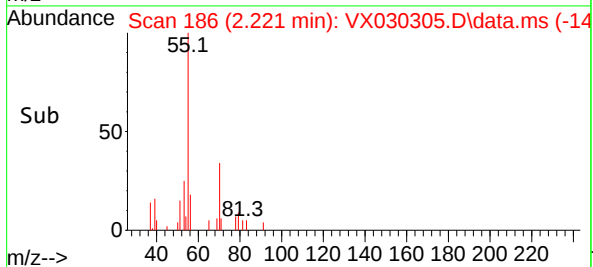
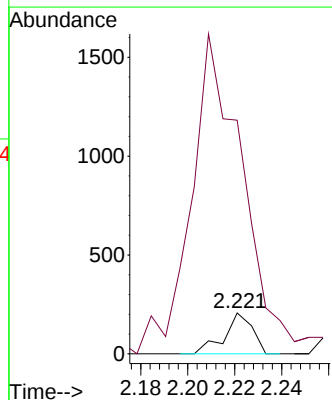
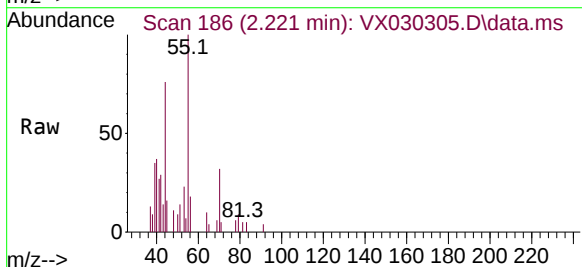
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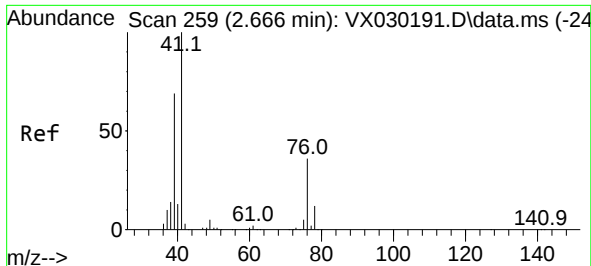
Tgt Ion: 56 Resp: 170

Ion Ratio Lower Upper

56 100

55 1471.2 56.6 84.8#

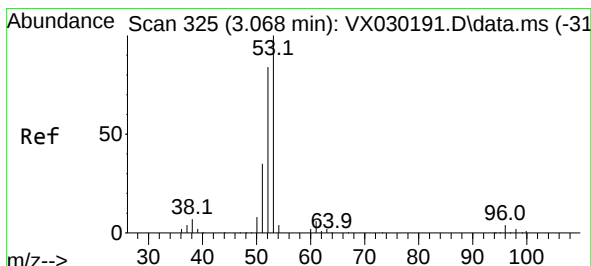
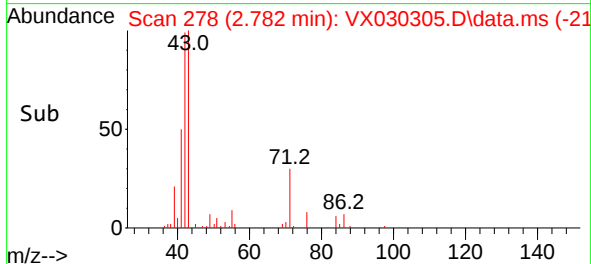
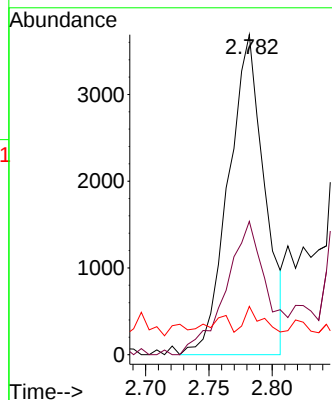
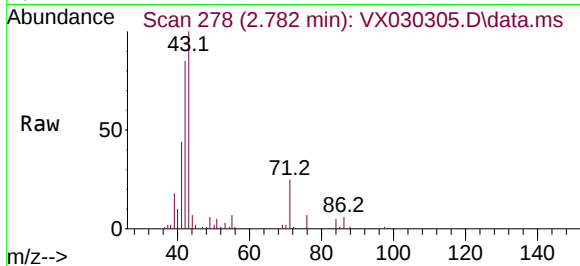




#14  
 Allyl chloride  
 Concen: 1.554 ug/l  
 RT: 2.782 min Scan# 21  
 Delta R.T. 0.116 min  
 Lab File: VX030305.D  
 Acq: 29 Jul 2022 16:09

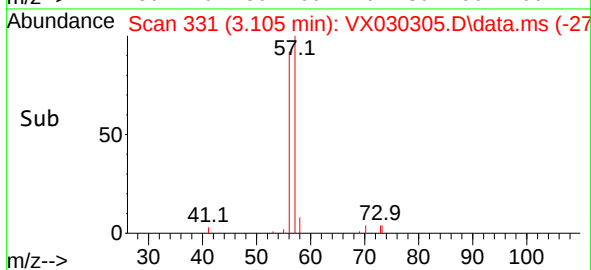
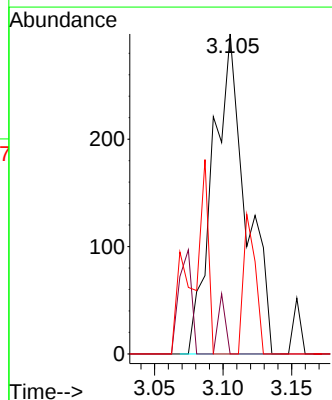
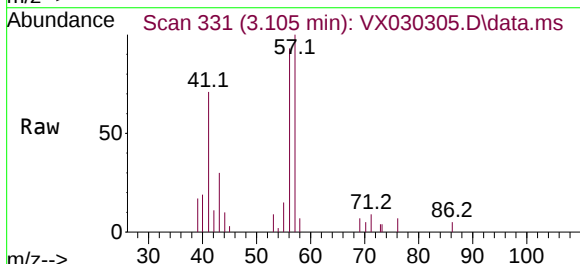
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-16R

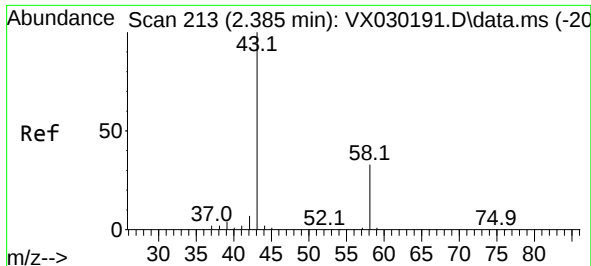
Tgt Ion: 41 Resp: 7310  
 Ion Ratio Lower Upper  
 41 100  
 39 48.0 48.9 73.3#  
 76 4.6 26.9 40.3#



#15  
 Acrylonitrile  
 Concen: 0.285 ug/l  
 RT: 3.105 min Scan# 331  
 Delta R.T. 0.037 min  
 Lab File: VX030305.D  
 Acq: 29 Jul 2022 16:09

Tgt Ion: 53 Resp: 503  
 Ion Ratio Lower Upper  
 53 100  
 52 4.0 65.4 98.0#  
 51 28.8 27.7 41.5

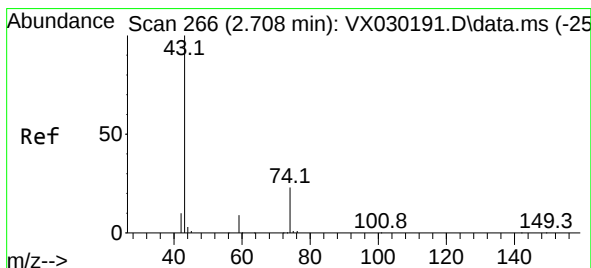
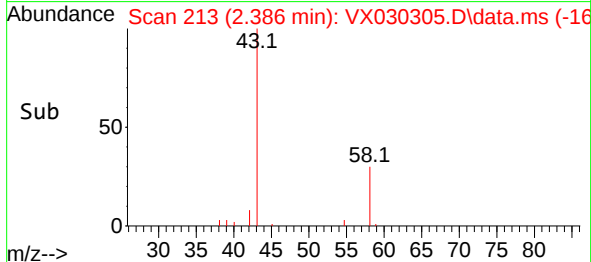
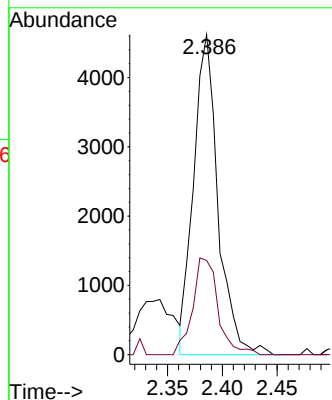
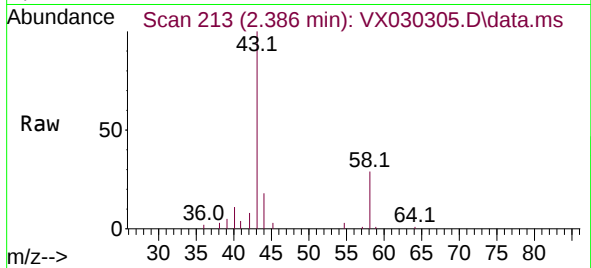




#16  
Acetone  
Concen: 4.753 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. 0.001 min  
Lab File: VX030305.D  
Acq: 29 Jul 2022 16:09

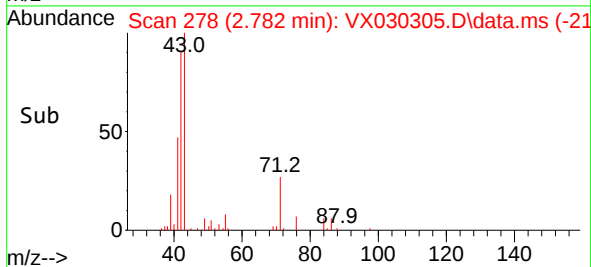
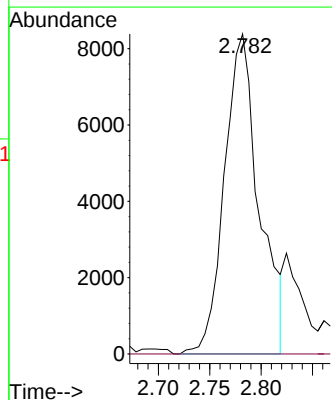
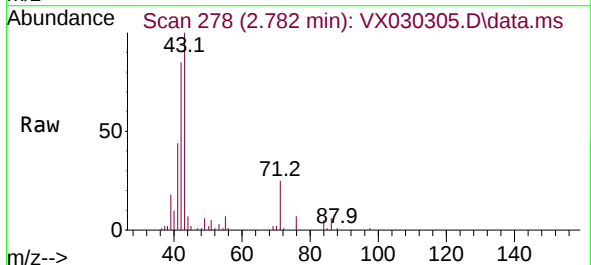
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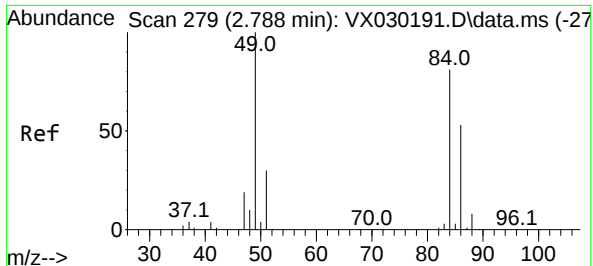
Tgt Ion: 43 Resp: 7135  
Ion Ratio Lower Upper  
43 100  
58 29.5 27.7 41.5



#18  
Methyl Acetate  
Concen: 4.422 ug/l  
RT: 2.782 min Scan# 278  
Delta R.T. 0.074 min  
Lab File: VX030305.D  
Acq: 29 Jul 2022 16:09

Tgt Ion: 43 Resp: 19636  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.4 29.2#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.788 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX030305.D

Acq: 29 Jul 2022 16:09

Instrument :

MSVOA\_X

ClientSampleId :

MW-16R

Tgt Ion: 84 Resp: 923

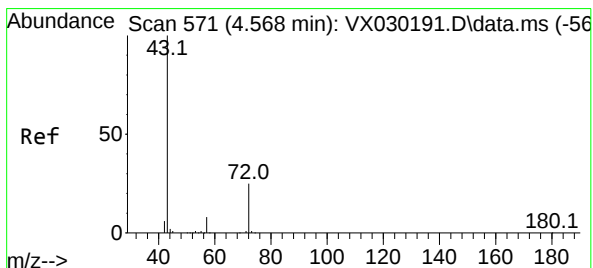
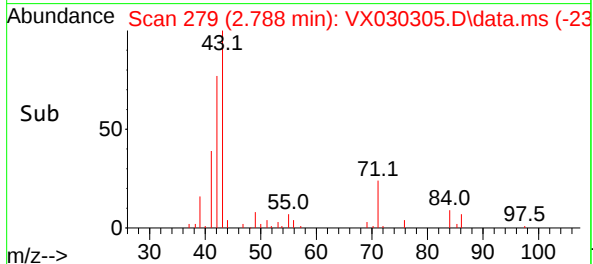
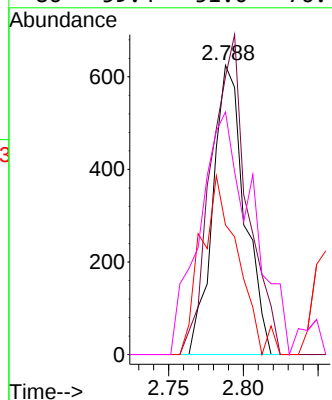
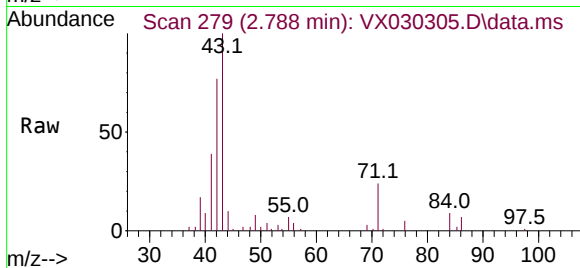
Ion Ratio Lower Upper

84 100

49 96.0 93.8 140.6

51 44.8 29.4 44.0#

86 59.4 51.0 76.4



#25

2-Butanone

Concen: 0.712 ug/l

RT: 4.586 min Scan# 574

Delta R.T. 0.018 min

Lab File: VX030305.D

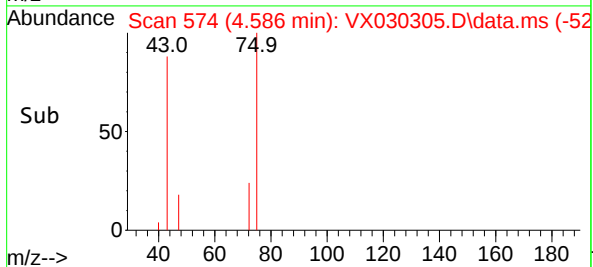
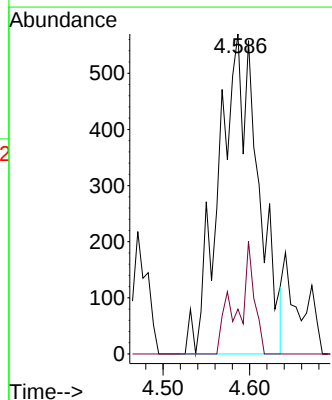
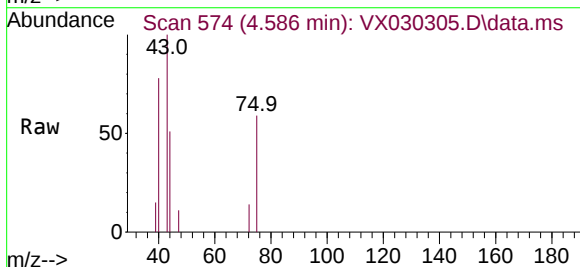
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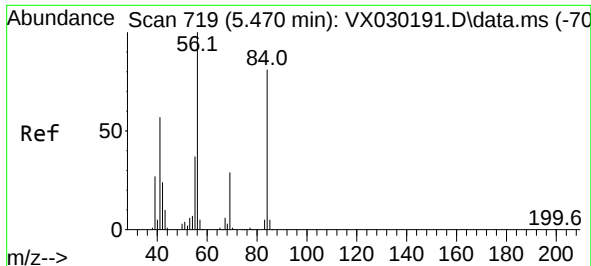
Tgt Ion: 43 Resp: 1797

Ion Ratio Lower Upper

43 100

72 14.0 21.7 32.5#

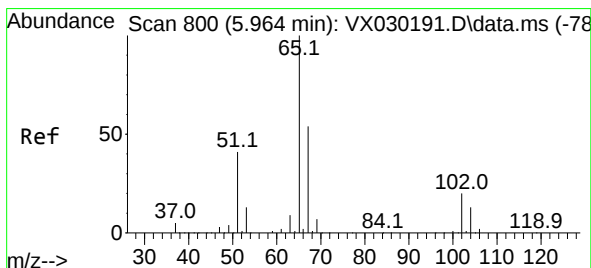
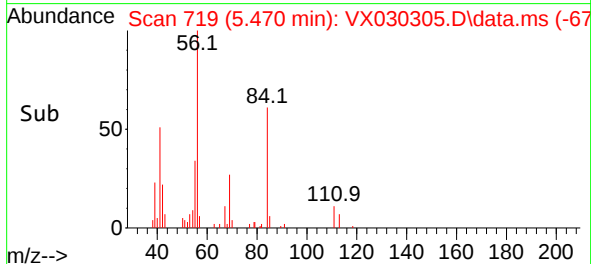
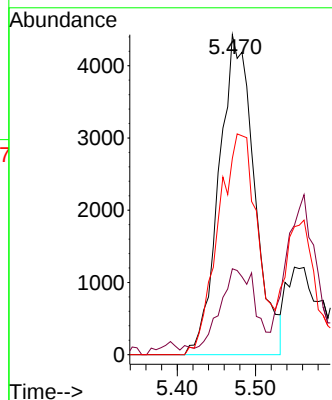
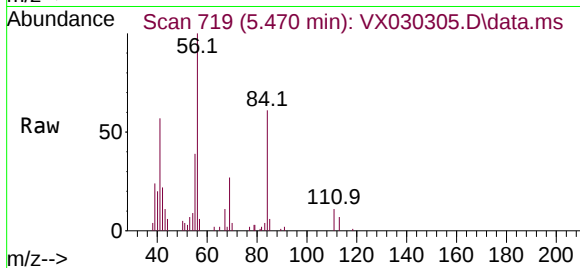




#31  
Cyclohexane  
Concen: 3.255 ug/l  
RT: 5.470 min Scan# 719  
Delta R.T. 0.000 min  
Lab File: VX030305.D  
Acq: 29 Jul 2022 16:09

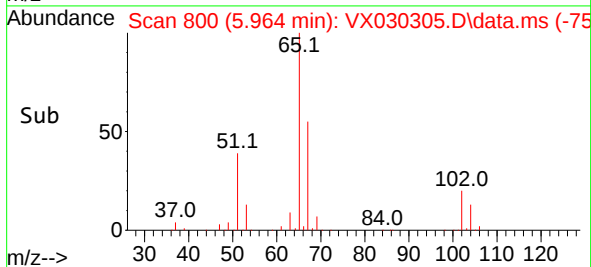
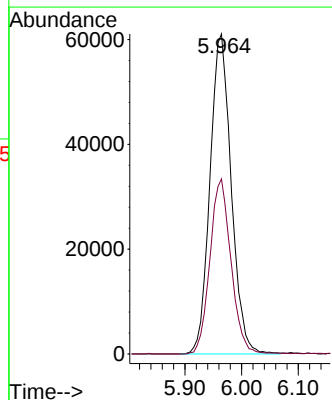
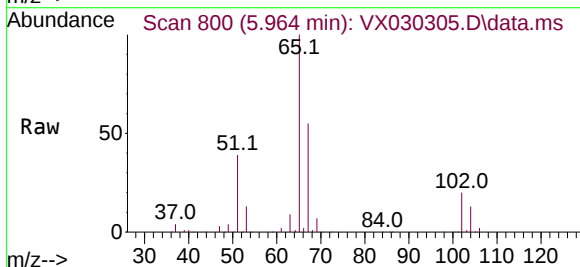
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-16R

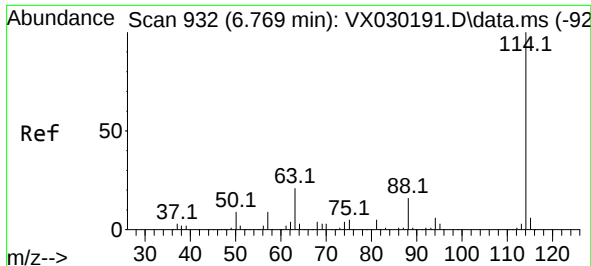
Tgt Ion: 56 Resp: 13856  
Ion Ratio Lower Upper  
56 100  
69 25.4 25.4 38.0  
84 61.4 68.9 103.3#



#33  
1,2-Dichloroethane-d4  
Concen: 54.157 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. 0.000 min  
Lab File: VX030305.D  
Acq: 29 Jul 2022 16:09

Tgt Ion: 65 Resp: 158801  
Ion Ratio Lower Upper  
65 100  
67 54.4 0.0 109.6

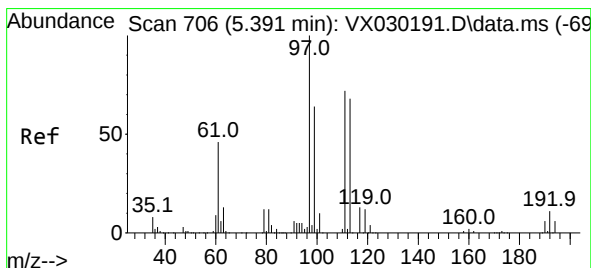
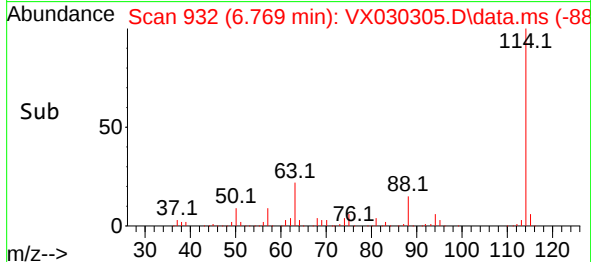
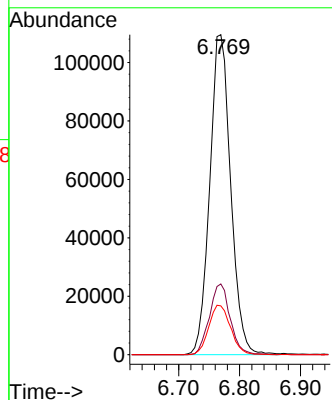
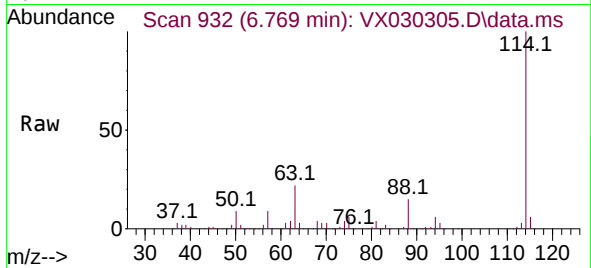




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX030305.D  
Acq: 29 Jul 2022 16:09

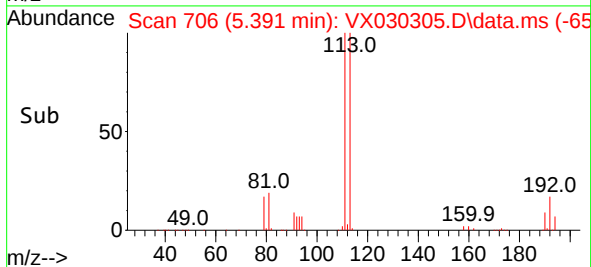
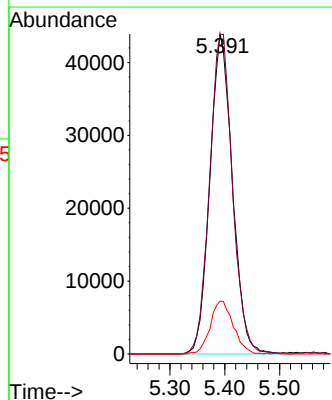
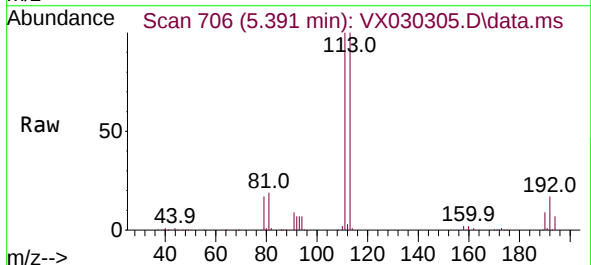
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-16R

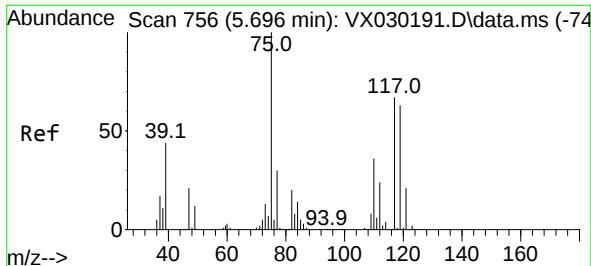
Tgt Ion:114 Resp: 261839  
Ion Ratio Lower Upper  
114 100  
63 22.1 0.0 38.4  
88 15.3 0.0 31.8



#35  
Dibromofluoromethane  
Concen: 49.875 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.000 min  
Lab File: VX030305.D  
Acq: 29 Jul 2022 16:09

Tgt Ion:113 Resp: 124840  
Ion Ratio Lower Upper  
113 100  
111 102.1 83.2 124.8  
192 16.9 14.8 22.2

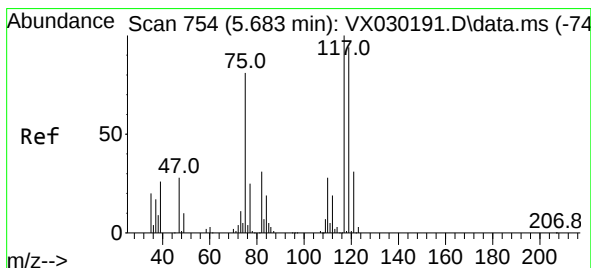
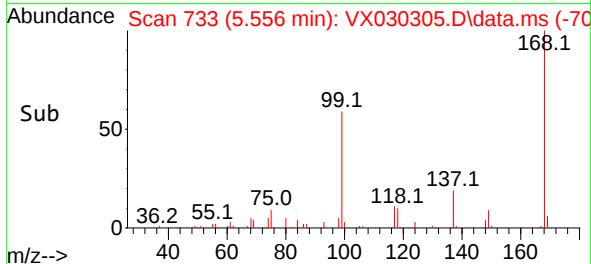
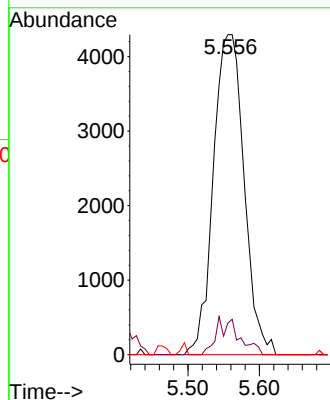
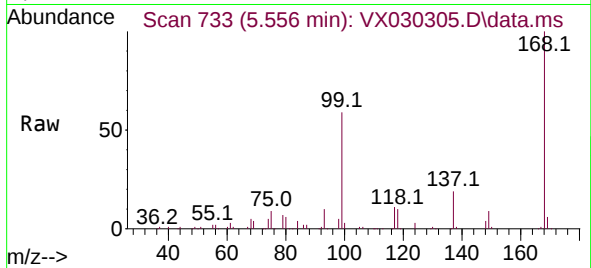




#36  
1,1-Dichloropropene  
Concen: 3.551 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.140 min  
Lab File: VX030305.D  
Acq: 29 Jul 2022 16:09

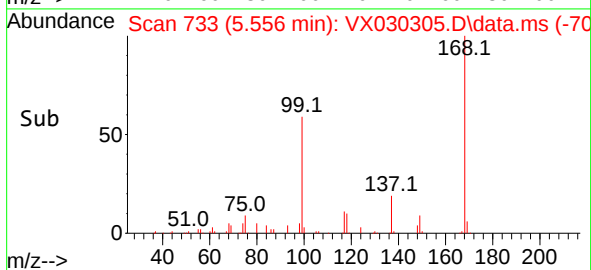
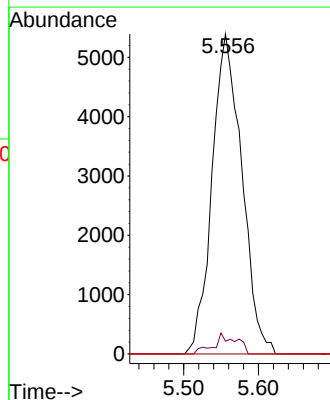
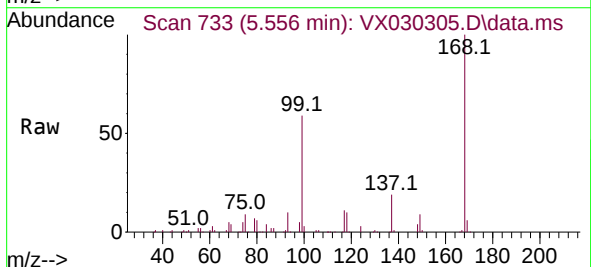
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-16R

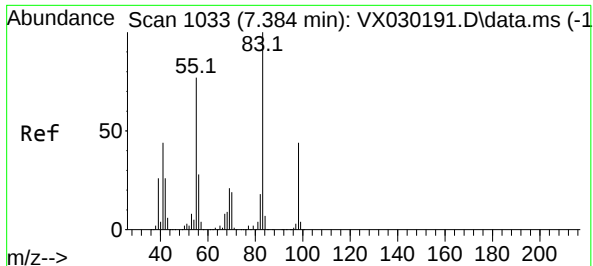
Tgt Ion: 75 Resp: 12792  
Ion Ratio Lower Upper  
75 100  
110 8.5 19.3 57.9#  
77 0.0 24.4 36.6#



#38  
Carbon Tetrachloride  
Concen: 4.438 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.127 min  
Lab File: VX030305.D  
Acq: 29 Jul 2022 16:09

Tgt Ion: 117 Resp: 14923  
Ion Ratio Lower Upper  
117 100  
119 4.0 74.1 111.1#  
121 0.0 25.8 38.8#





#39

Methylcyclohexane

Concen: 1.243 ug/l

RT: 7.373 min Scan# 1109

Delta R.T. -0.011 min

Lab File: VX030305.D

Acq: 29 Jul 2022 16:09

Instrument :

MSVOA\_X

ClientSampleId :

MW-16R

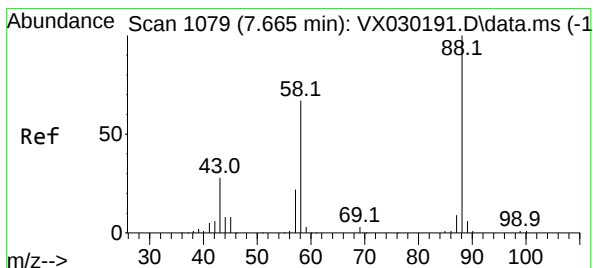
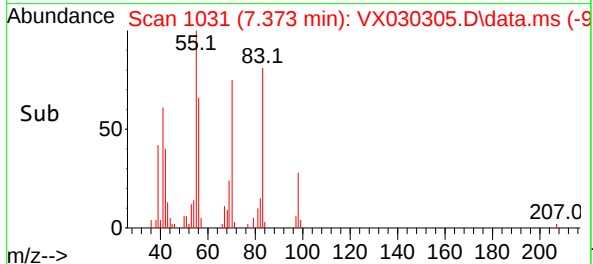
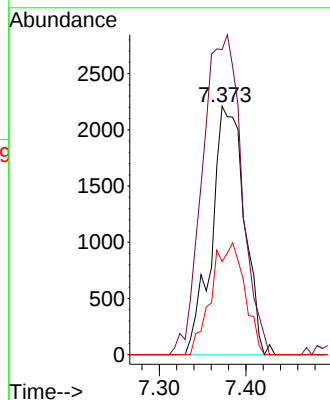
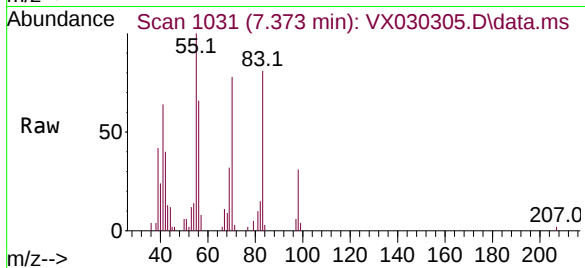
Tgt Ion: 83 Resp: 5781

Ion Ratio Lower Upper

83 100

55 122.9 57.7 86.5#

98 37.6 36.5 54.7



#49

1,4-Dioxane

Concen: 0.224 ug/l

RT: 7.921 min Scan# 1121

Delta R.T. 0.256 min

Lab File: VX030305.D

Acq: 29 Jul 2022 16:09

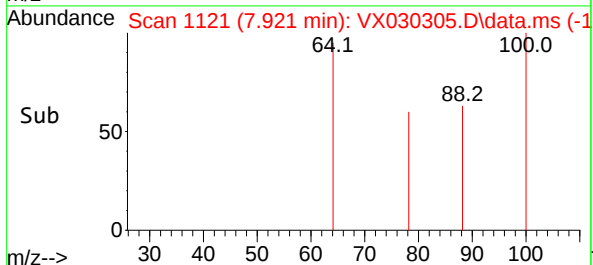
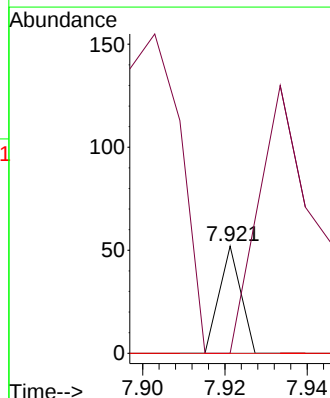
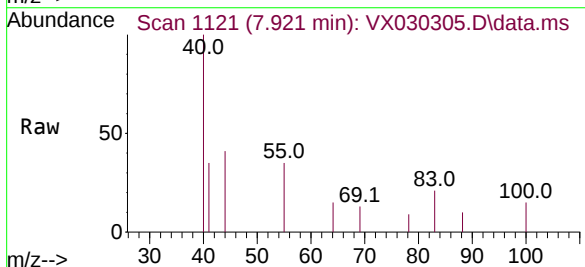
Tgt Ion: 88 Resp: 19

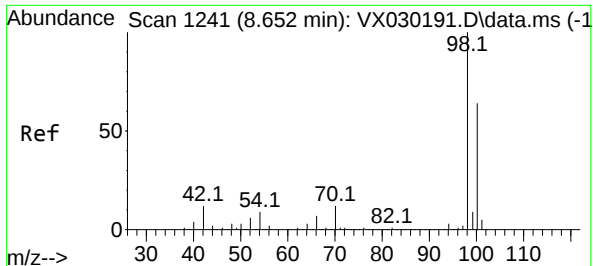
Ion Ratio Lower Upper

88 100

43 510.5 23.8 35.8#

58 0.0 53.8 80.6#

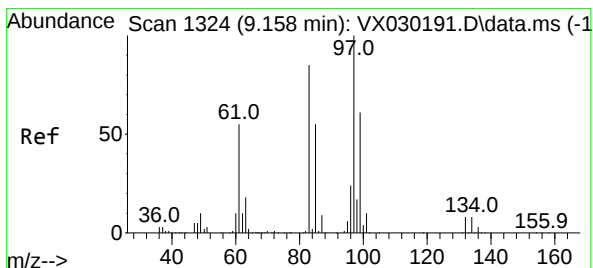
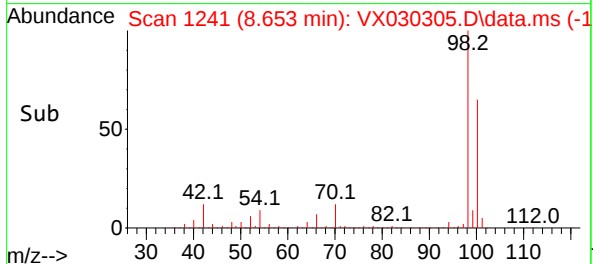
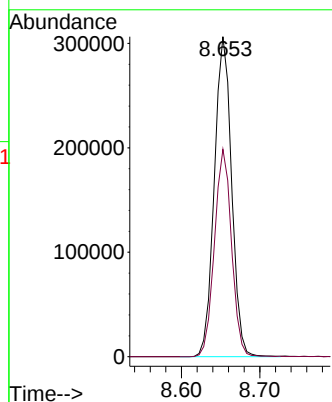
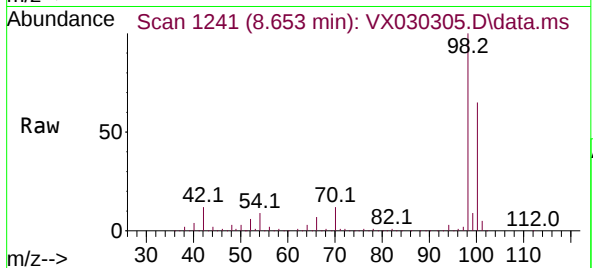




#50  
Toluene-d8  
Concen: 48.525 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. 0.001 min  
Lab File: VX030305.D  
Acq: 29 Jul 2022 16:09

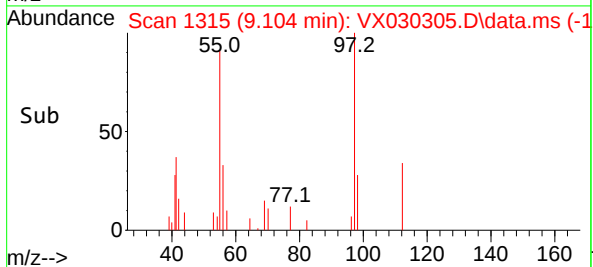
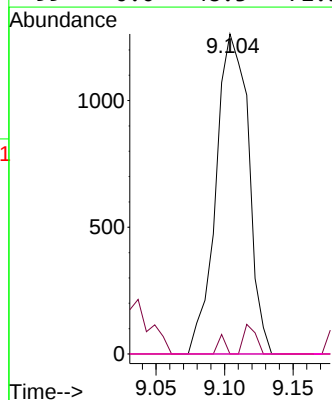
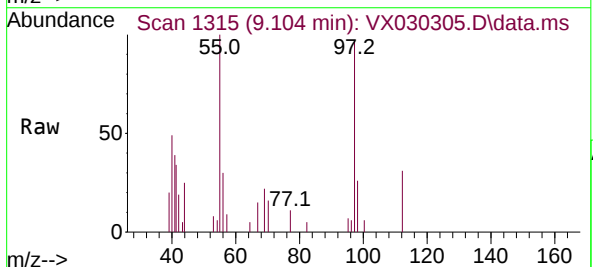
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-16R

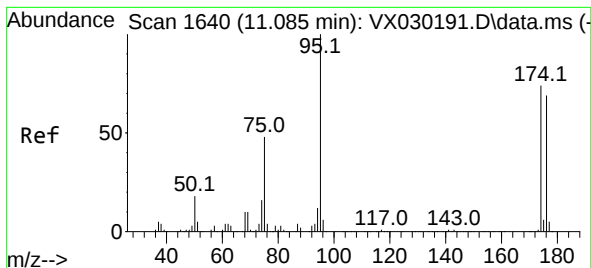
Tgt Ion: 98 Resp: 470373  
Ion Ratio Lower Upper  
98 100  
100 64.0 52.3 78.5



#55  
1,1,2-Trichloroethane  
Concen: 0.710 ug/l  
RT: 9.104 min Scan# 1315  
Delta R.T. -0.054 min  
Lab File: VX030305.D  
Acq: 29 Jul 2022 16:09

Tgt Ion: 97 Resp: 2090  
Ion Ratio Lower Upper  
97 100  
83 0.0 68.9 103.3#  
85 0.0 44.0 66.0#  
99 0.0 48.3 72.5#

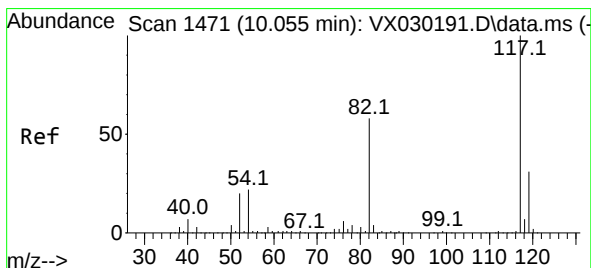
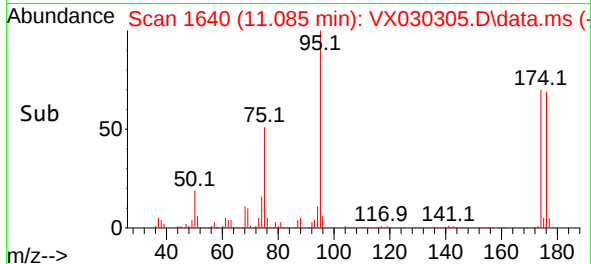
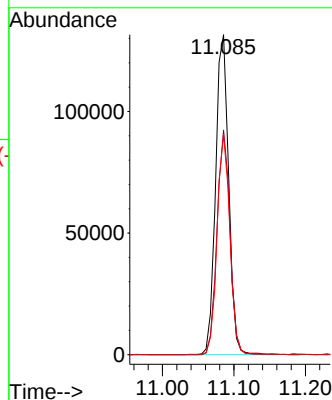
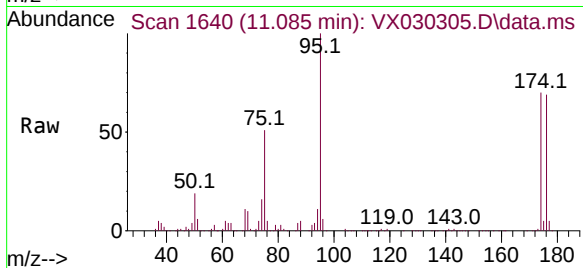




#62  
4-Bromofluorobenzene  
Concen: 46.387 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX030305.D  
Acq: 29 Jul 2022 16:09

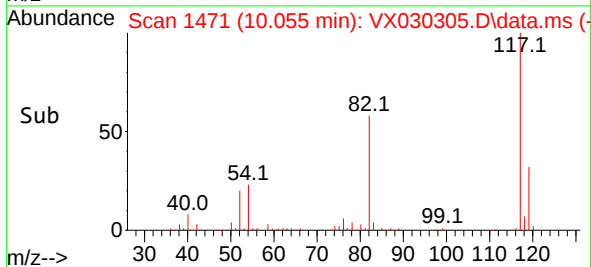
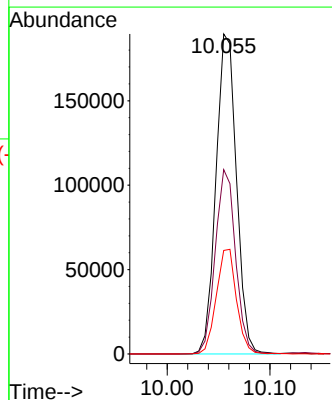
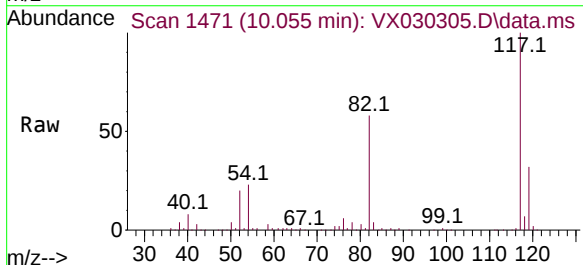
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-16R

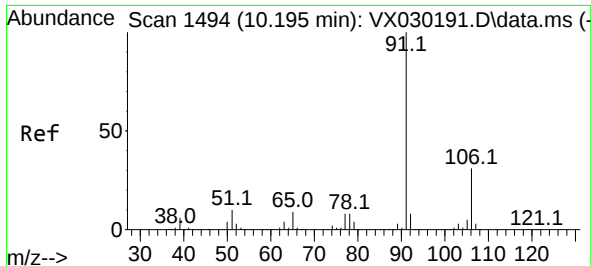
Tgt Ion: 95 Resp: 166875  
Ion Ratio Lower Upper  
95 100  
174 69.8 0.0 149.0  
176 67.1 0.0 146.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX030305.D  
Acq: 29 Jul 2022 16:09

Tgt Ion: 117 Resp: 262567  
Ion Ratio Lower Upper  
117 100  
82 57.6 42.7 64.1  
119 32.4 25.4 38.2





#67

Ethyl Benzene

Concen: Below Cal

RT: 10.201 min Scan# 1495

Delta R.T. 0.006 min

Lab File: VX030305.D

Acq: 29 Jul 2022 16:09

Instrument :

MSVOA\_X

ClientSampleId :

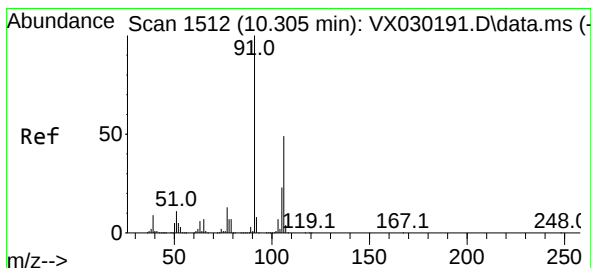
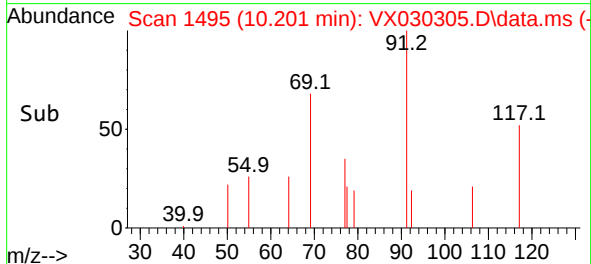
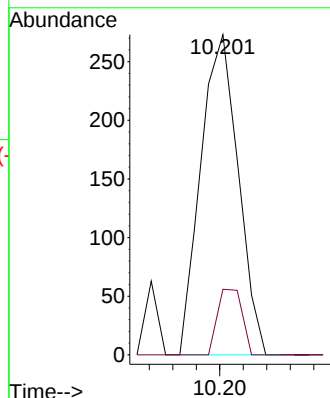
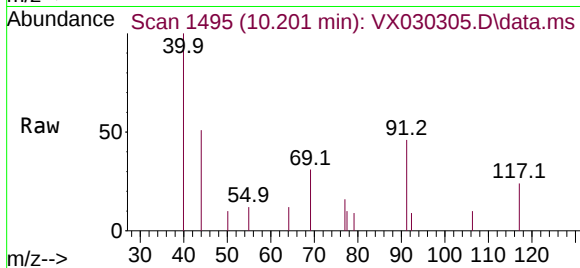
MW-16R

Tgt Ion: 91 Resp: 303

Ion Ratio Lower Upper

91 100

106 20.5 25.5 38.3#



#68

m/p-Xylenes

Concen: 0.211 ug/l

RT: 10.317 min Scan# 1514

Delta R.T. 0.012 min

Lab File: VX030305.D

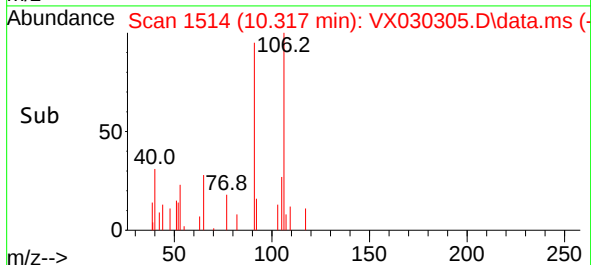
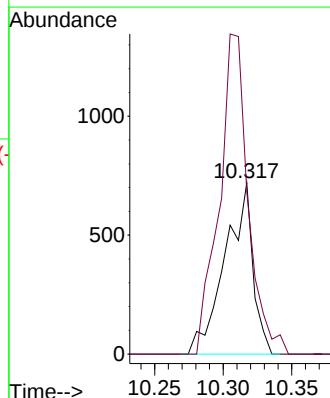
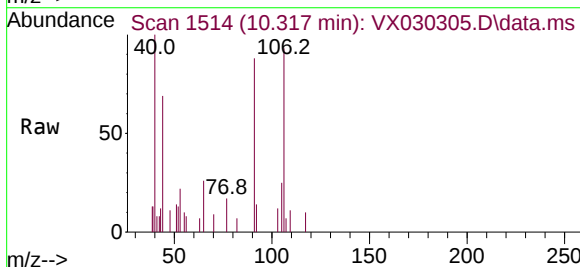
Acq: 29 Jul 2022 16:09

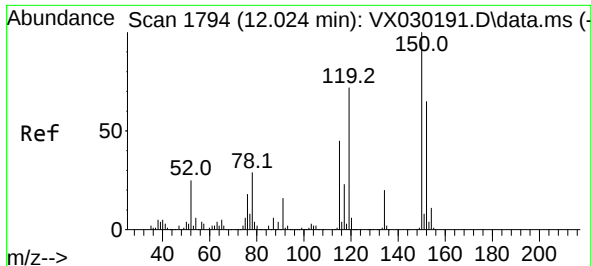
Tgt Ion: 106 Resp: 1019

Ion Ratio Lower Upper

106 100

91 194.3 158.2 237.4

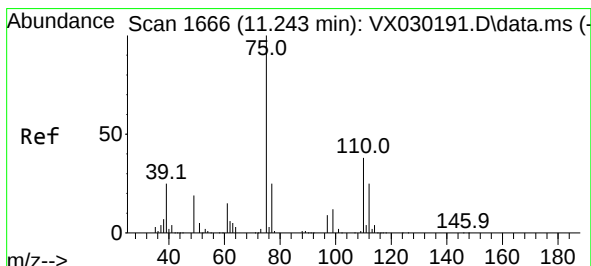
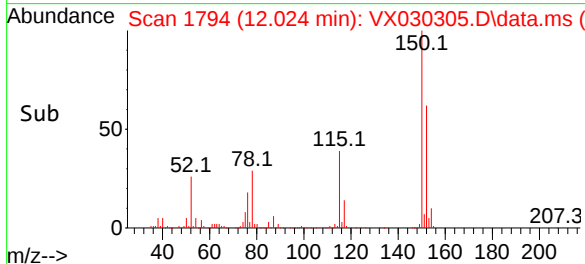
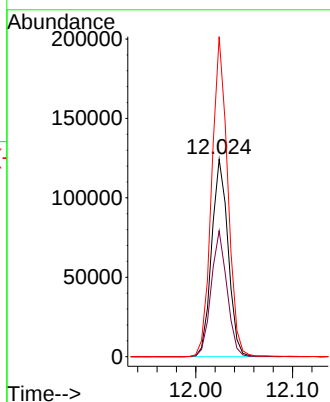
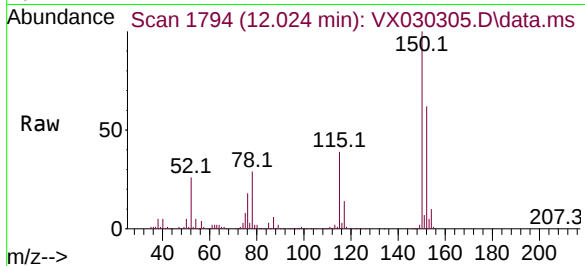




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: VX030305.D  
 Acq: 29 Jul 2022 16:09

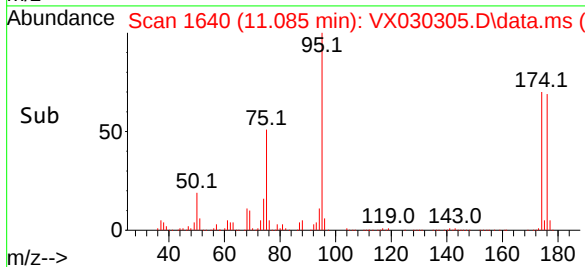
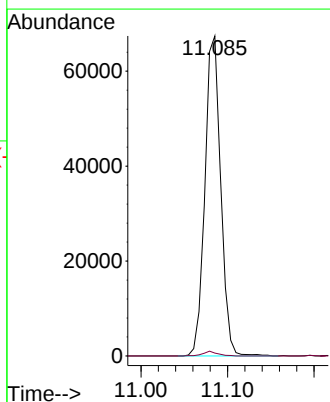
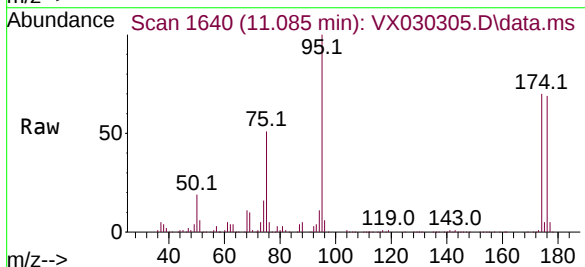
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-16R

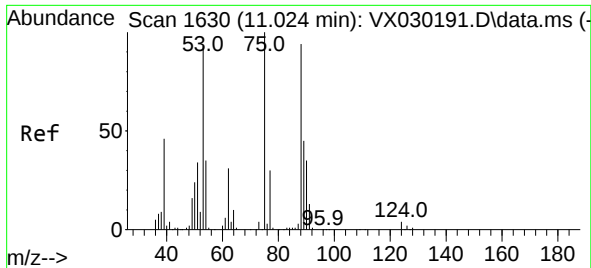
Tgt Ion:152 Resp: 146689  
 Ion Ratio Lower Upper  
 152 100  
 115 61.7 40.5 121.5  
 150 158.2 0.0 347.0



#76  
 1,2,3-Trichloropropane  
 Concen: 22.123 ug/l  
 RT: 11.085 min Scan# 1640  
 Delta R.T. -0.158 min  
 Lab File: VX030305.D  
 Acq: 29 Jul 2022 16:09

Tgt Ion: 75 Resp: 85542  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 19.8 59.3#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 66.368 ug/l  
 RT: 11.085 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX030305.D  
 Acq: 29 Jul 2022 16:09

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-16R

Tgt Ion: 75 Resp: 85542  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 74.2 111.4#  
 89 0.0 34.8 52.2#

