

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060321\  
 Data File : VX022391.D  
 Acq On : 04 Jun 2021 01:24  
 Operator : JC/MD  
 Sample : PB36780ZHE#06  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 04 05:39:42 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X051921W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 19 14:23:10 2021  
 Response via : Initial Calibration

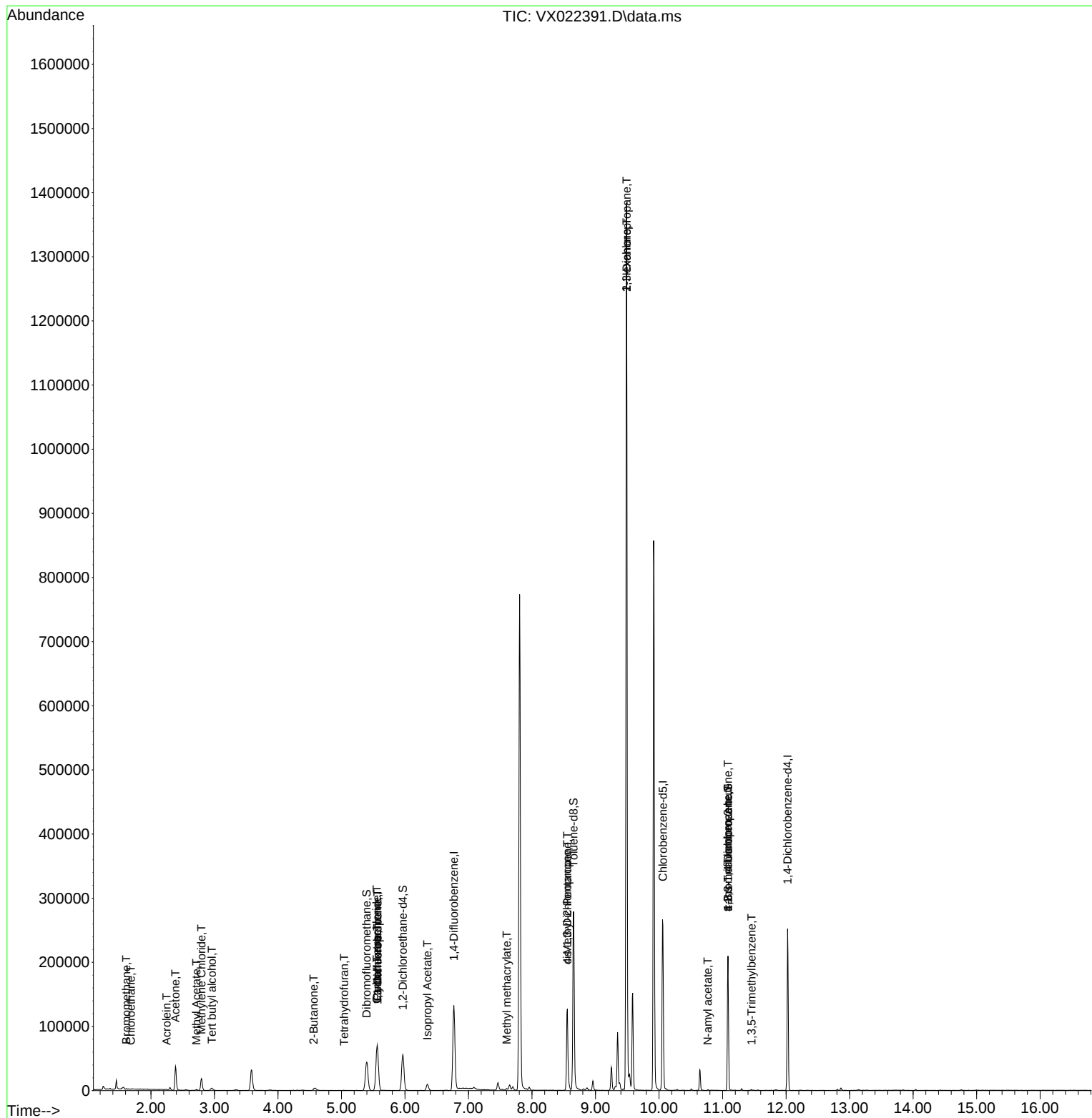
| Compound                      | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                         |                |      |                    |        |        |          |
| Internal Standards            |                |      |                    |        |        |          |
| 1) Pentafluorobenzene         | 5.562          | 168  | 59507              | 50.00  | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 130149             | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.061         | 117  | 116246             | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 45632              | 50.00  | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964          | 65   | 51936              | 56.58  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 113.16% |        |        |          |
| 35) Dibromofluoromethane      | 5.397          | 113  | 38860              | 47.08  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 94.16%  |        |        |          |
| 50) Toluene-d8                | 8.652          | 98   | 160403             | 50.45  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 100.90% |        |        |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 57434              | 48.87  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 97.74%  |        |        |          |
| Target Compounds              |                |      |                    |        |        |          |
|                               |                |      |                    |        |        | Qvalue   |
| 5) Bromomethane               | 1.611          | 94   | 107                | 0.22   | ug/l   | 89       |
| 6) Chloroethane               | 1.684          | 64   | 188                | 0.38   | ug/l # | 43       |
| 11) Tert butyl alcohol        | 2.958          | 59   | 3446               | 16.41  | ug/l # | 77       |
| 13) Acrolein                  | 2.245          | 56   | 79                 | 0.57   | ug/l # | 1        |
| 16) Acetone                   | 2.385          | 43   | 38222              | 95.63  | ug/l   | 95       |
| 18) Methyl Acetate            | 2.715          | 43   | 1747               | 1.64   | ug/l # | 79       |
| 20) Methylene Chloride        | 2.794          | 84   | 8268               | 9.32   | ug/l # | 82       |
| 25) 2-Butanone                | 4.562          | 43   | 2632               | 4.07   | ug/l # | 78       |
| 29) Tetrahydrofuran           | 5.043          | 42   | 304                | 0.79   | ug/l # | 27       |
| 31) Cyclohexane               | 5.562          | 56   | 1629               | 1.41   | ug/l # | 31       |
| 36) 1,1-Dichloropropene       | 5.568          | 75   | 5943               | 4.94   | ug/l # | 46       |
| 38) Carbon Tetrachloride      | 5.555          | 117  | 7284               | 6.19   | ug/l # | 15       |
| 43) Isopropyl Acetate         | 6.354          | 43   | 13132              | 5.44   | ug/l   | 93       |
| 48) Methyl methacrylate       | 7.604          | 41   | 3894               | 3.50   | ug/l # | 10       |
| 51) 4-Methyl-2-Pentanone      | 8.555          | 43   | 46545              | 32.20  | ug/l # | 41       |
| 54) cis-1,3-Dichloropropene   | 8.555          | 75   | 20313              | 12.76  | ug/l # | 65       |
| 57) 1,3-Dichloropropane       | 9.488          | 76   | 11961              | 7.36   | ug/l # | 43       |
| 59) 2-Hexanone                | 9.488          | 43   | 155262             | 142.82 | ug/l # | 45       |
| 74) N-amyl acetate            | 10.768         | 43   | 798                | 0.44   | ug/l # | 38       |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 30960              | 27.50  | ug/l # | 38       |
| 80) 1,3,5-Trimethylbenzene    | 11.457         | 105  | 645                | 0.20   | ug/l   | 83       |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 30960              | 65.16  | ug/l # | 12       |
| -----                         |                |      |                    |        |        |          |

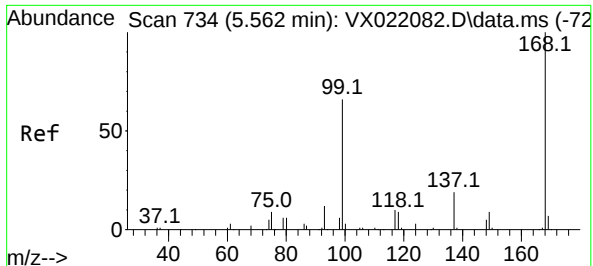
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

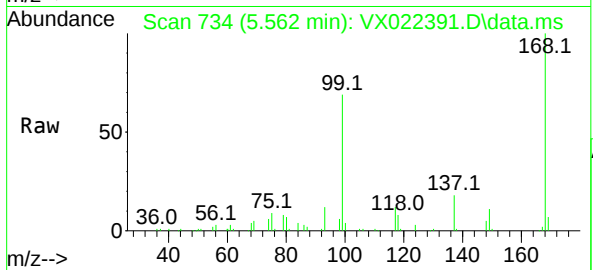
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X051921W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 19 14:23:10 2021  
Response via : Initial Calibration



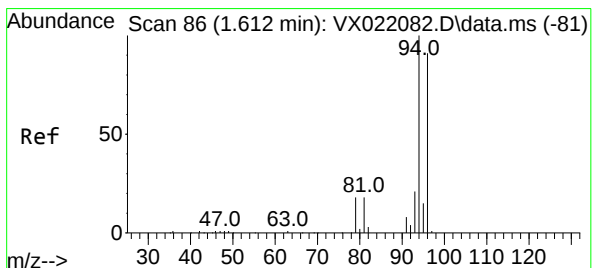
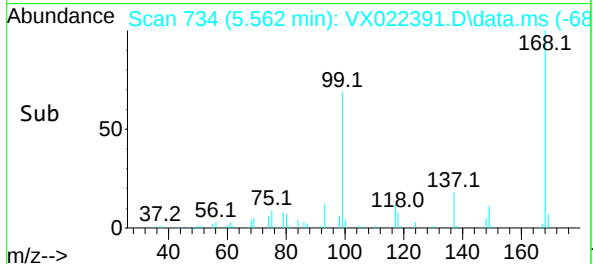
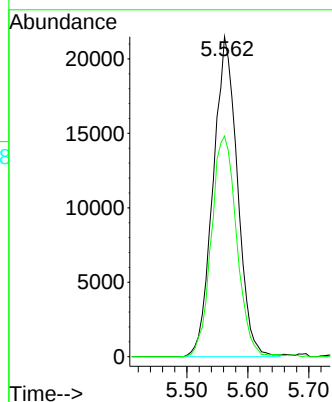


#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.000 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

Instrument :  
MSVOA\_X  
ClientSampled :

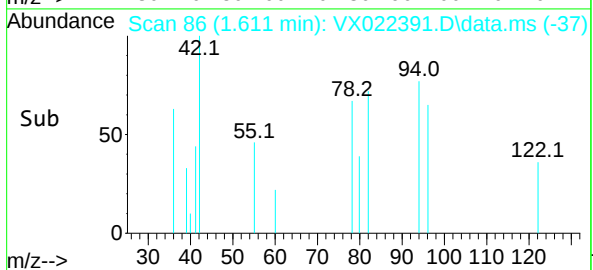
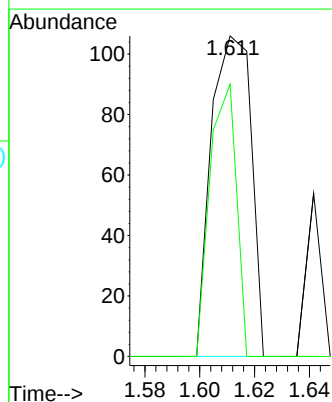
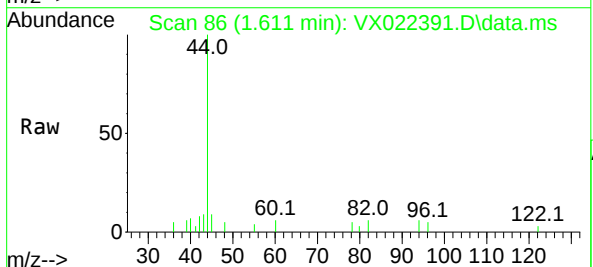


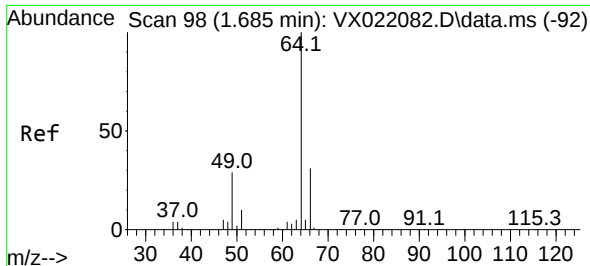
Tgt Ion:168 Resp: 59507  
Ion Ratio Lower Upper  
168 100  
99 68.9 45.8 68.6#



#5  
Bromomethane  
Concen: 0.22 ug/l  
RT: 1.611 min Scan# 86  
Delta R.T. -0.001 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

Tgt Ion: 94 Resp: 107  
Ion Ratio Lower Upper  
94 100  
96 84.9 76.4 114.6

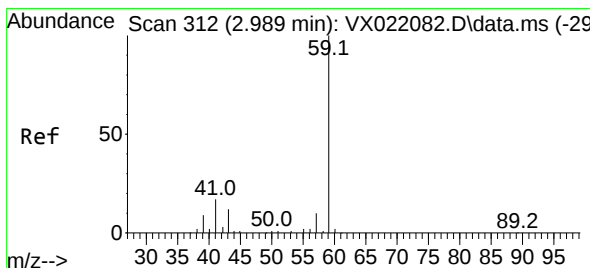
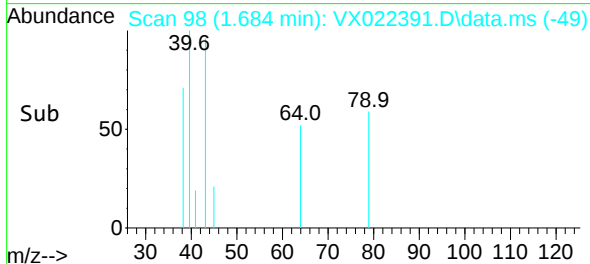
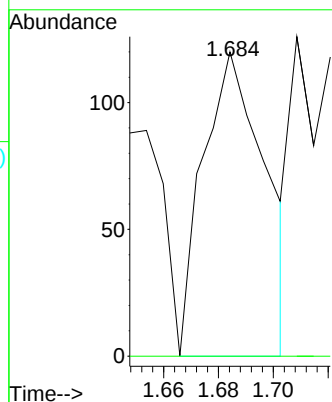
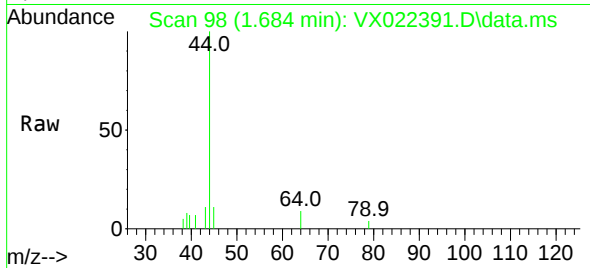




#6  
Chloroethane  
Concen: 0.38 ug/l  
RT: 1.684 min Scan# 98  
Delta R.T. -0.001 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

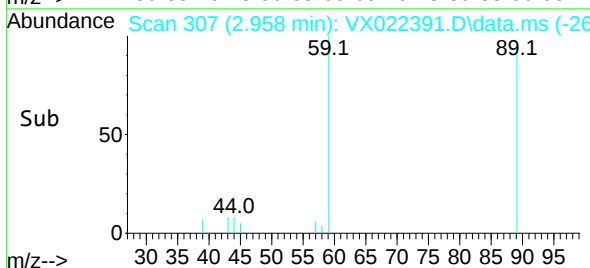
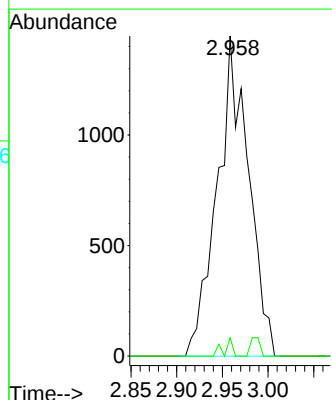
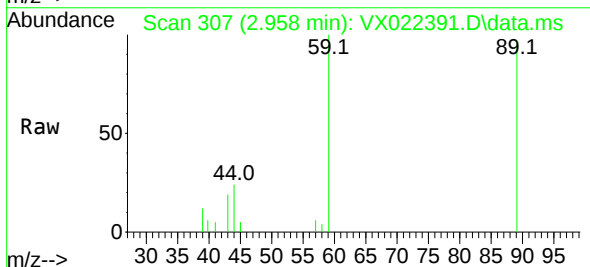
Instrument :  
MSVOA\_X  
ClientSampled :

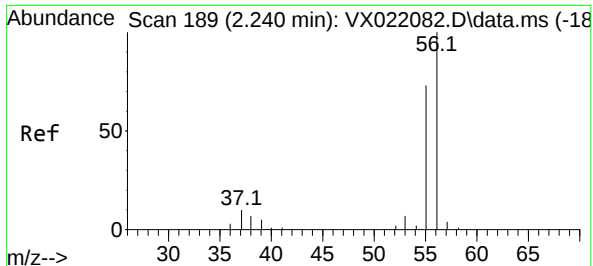
Tgt Ion: 64 Resp: 188  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.0#



#11  
Tert butyl alcohol  
Concen: 16.41 ug/l  
RT: 2.958 min Scan# 307  
Delta R.T. -0.031 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

Tgt Ion: 59 Resp: 3446  
Ion Ratio Lower Upper  
59 100  
57 1.5 7.8 11.8#

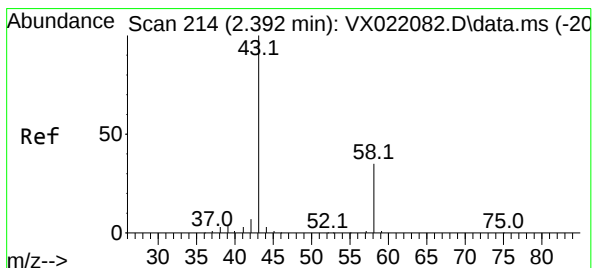
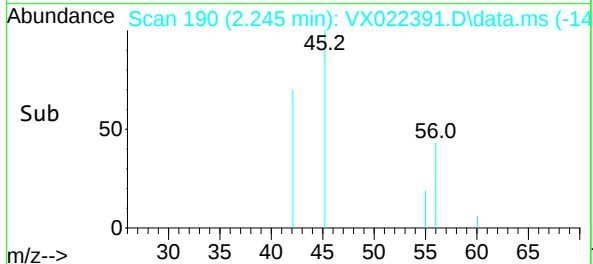
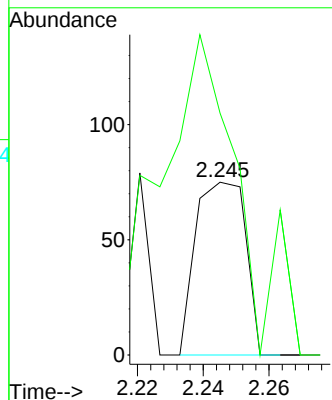
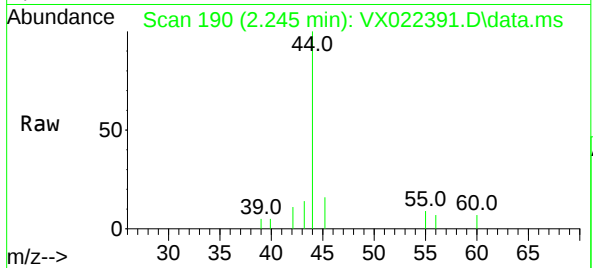




#13  
Acrolein  
Concen: 0.57 ug/l  
RT: 2.245 min Scan# 190  
Delta R.T. 0.005 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

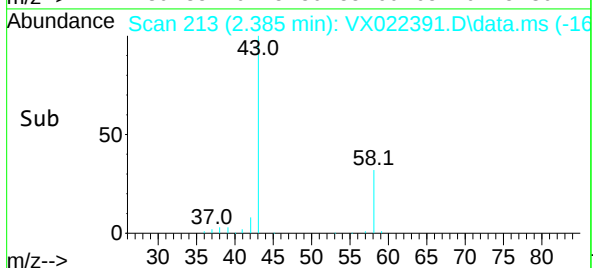
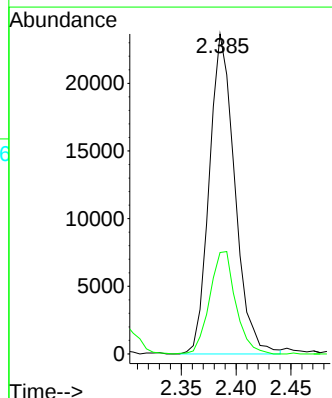
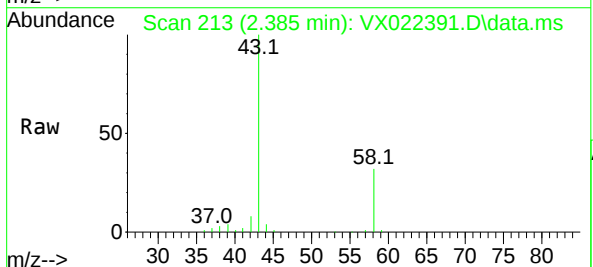
Instrument :  
MSVOA\_X  
ClientSampled :

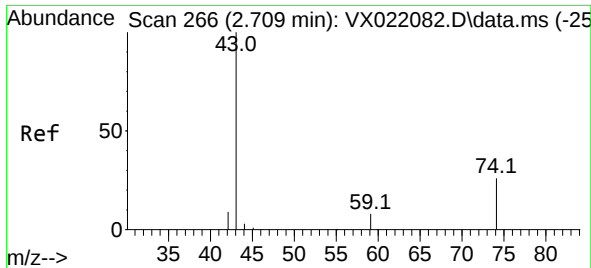
Tgt Ion: 56 Resp: 79  
Ion Ratio Lower Upper  
56 100  
55 292.4 56.4 84.6#



#16  
Acetone  
Concen: 95.63 ug/l  
RT: 2.385 min Scan# 213  
Delta R.T. -0.007 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

Tgt Ion: 43 Resp: 38222  
Ion Ratio Lower Upper  
43 100  
58 31.7 27.8 41.8

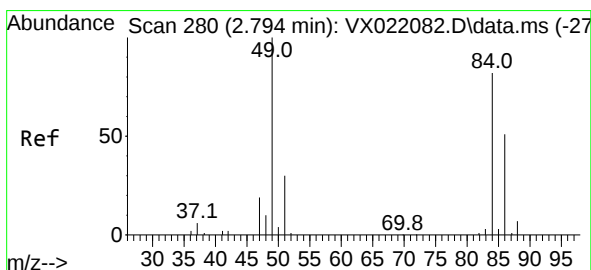
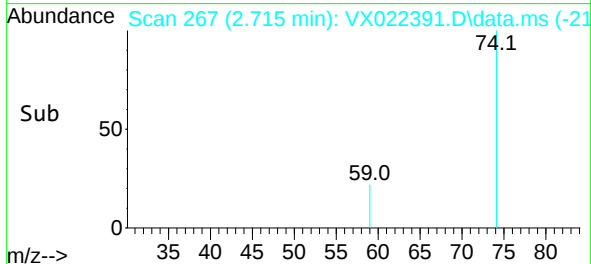
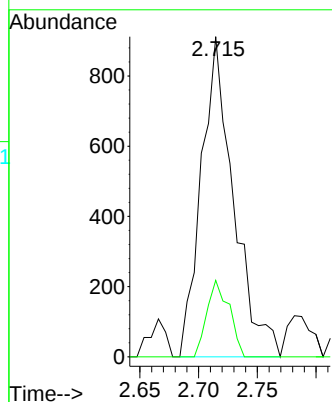
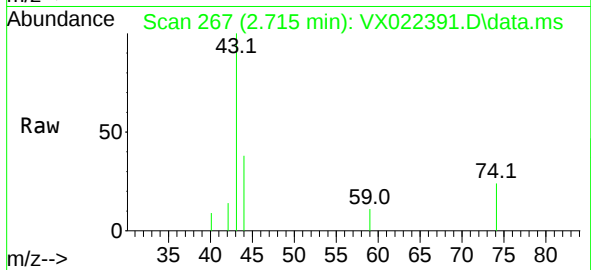




#18  
Methyl Acetate  
Concen: 1.64 ug/l  
RT: 2.715 min Scan# 267  
Delta R.T. 0.006 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

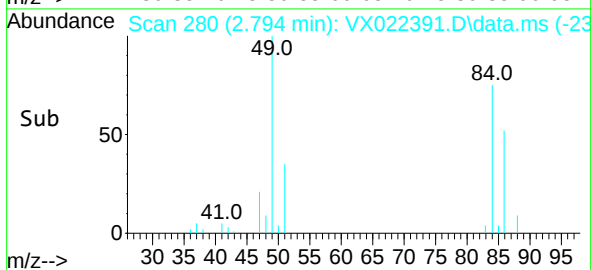
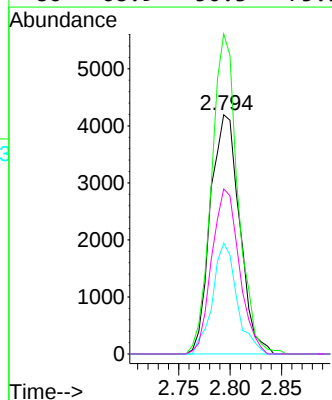
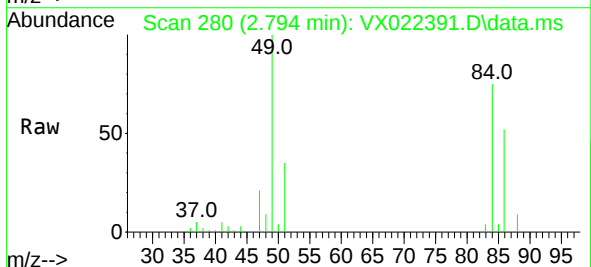
Instrument :  
MSVOA\_X  
ClientSampleId :

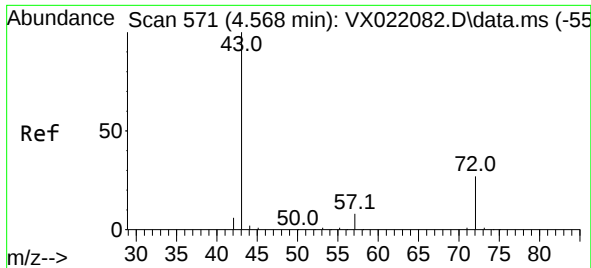
Tgt Ion: 43 Resp: 1747  
Ion Ratio Lower Upper  
43 100  
74 16.4 21.9 32.9#



#20  
Methylene Chloride  
Concen: 9.32 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. -0.000 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

Tgt Ion: 84 Resp: 8268  
Ion Ratio Lower Upper  
84 100  
49 133.7 88.6 132.8#  
51 46.4 27.0 40.6#  
86 68.9 50.3 75.5

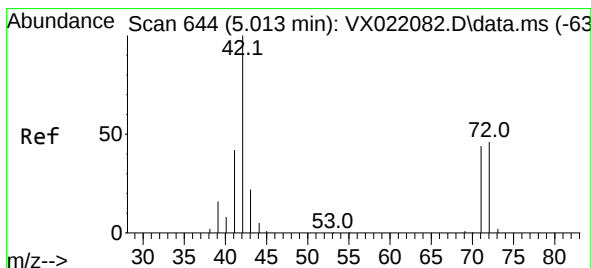
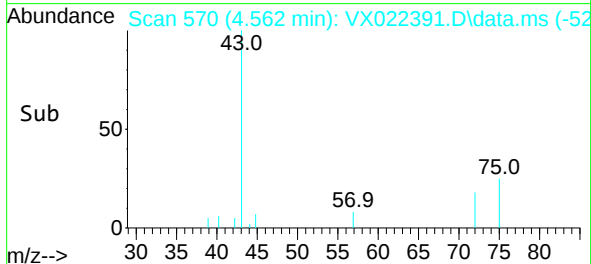
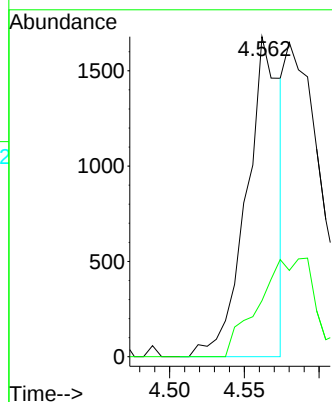
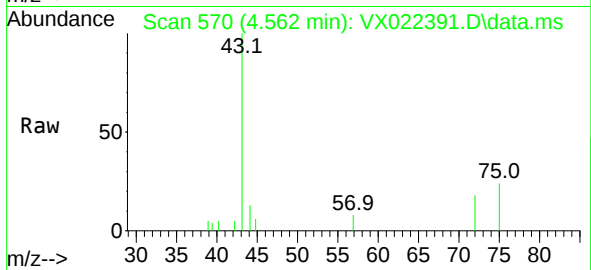




#25  
2-Butanone  
Concen: 4.07 ug/l  
RT: 4.562 min Scan# 570  
Delta R.T. -0.006 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

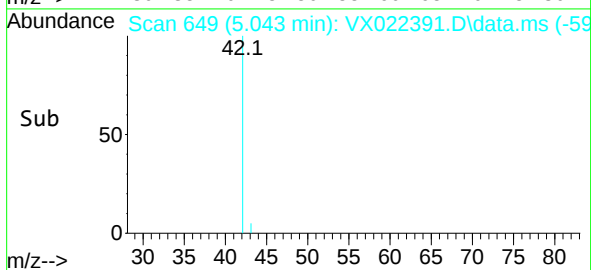
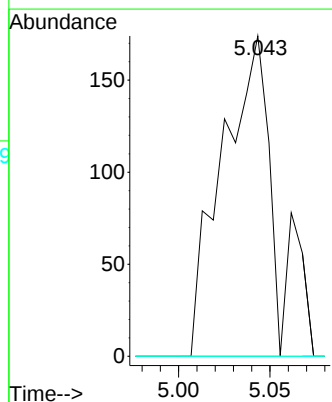
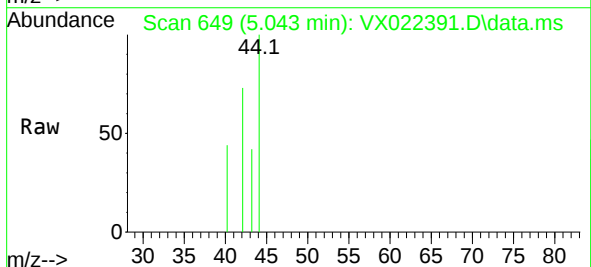
Instrument :  
MSVOA\_X  
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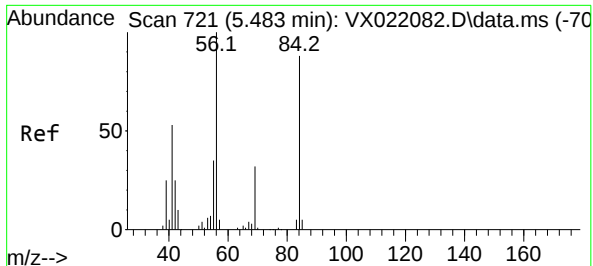
Tgt Ion: 43 Resp: 2632  
Ion Ratio Lower Upper  
43 100  
72 17.5 23.7 35.5#



#29  
Tetrahydrofuran  
Concen: 0.79 ug/l  
RT: 5.043 min Scan# 649  
Delta R.T. 0.030 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

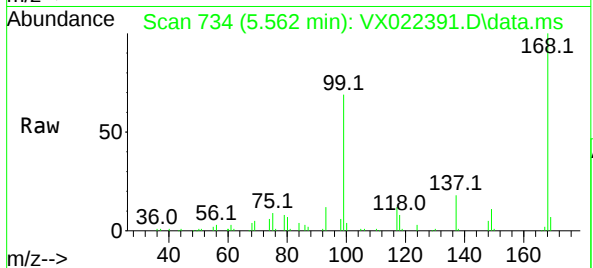
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Ion Ratio Lower Upper  
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72 0.0 41.7 62.5#  
71 0.0 38.4 57.6#



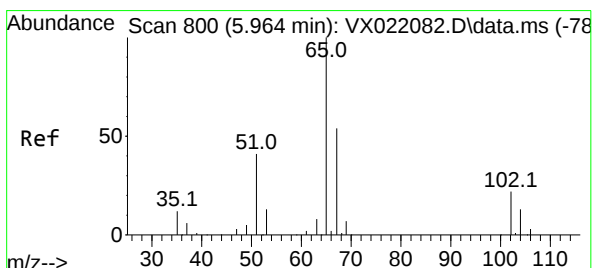
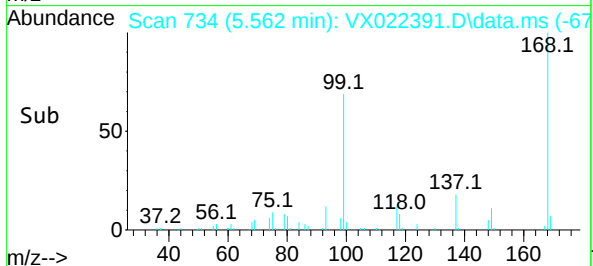
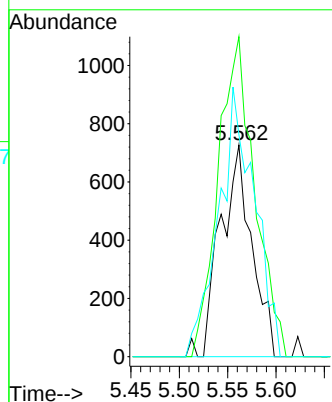


#31  
Cyclohexane  
Concen: 1.41 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.079 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

Instrument :  
MSVOA\_X  
ClientSampled :

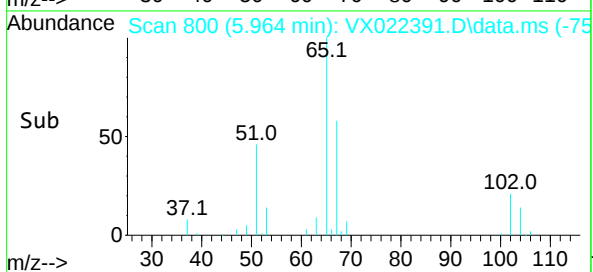
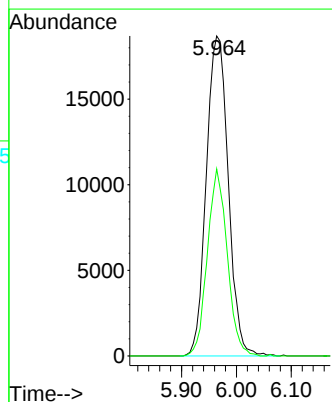
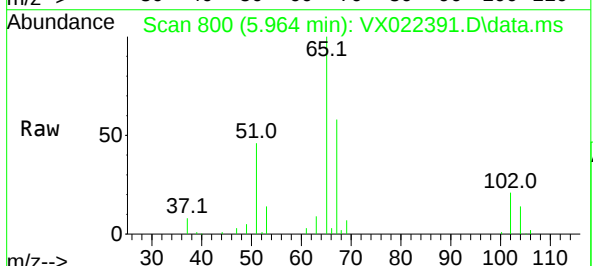


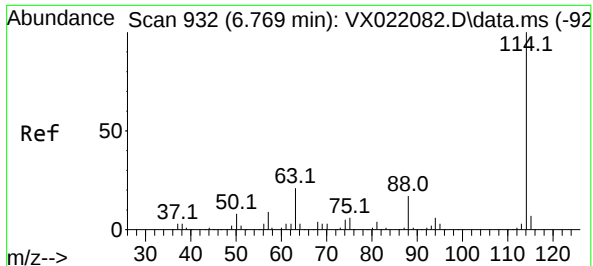
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Ion Ratio Lower Upper  
56 100  
69 151.2 25.3 37.9#  
84 104.8 71.4 107.0



#33  
1,2-Dichloroethane-d4  
Concen: 56.58 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. -0.000 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

Tgt Ion: 65 Resp: 51936  
Ion Ratio Lower Upper  
65 100  
67 52.9 0.0 105.4





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.000 min

Lab File: VX022391.D

Acq: 04 Jun 2021 01:24

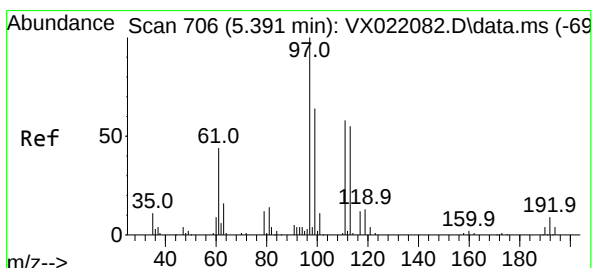
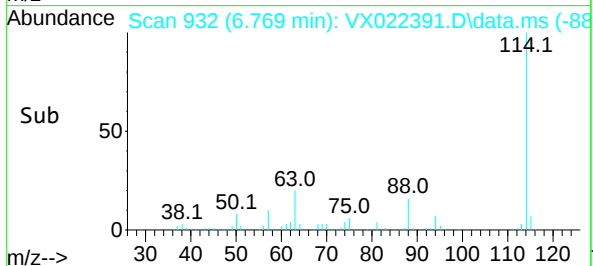
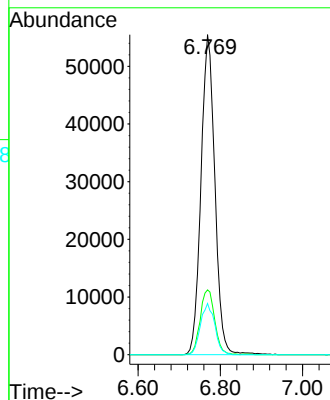
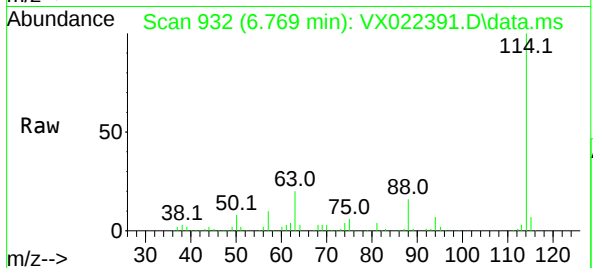
Tgt Ion:114 Resp: 130149

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.8

88 16.0 0.0 32.8



#35

Dibromofluoromethane

Concen: 47.08 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.006 min

Lab File: VX022391.D

Acq: 04 Jun 2021 01:24

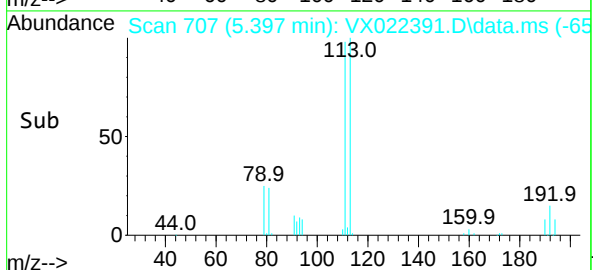
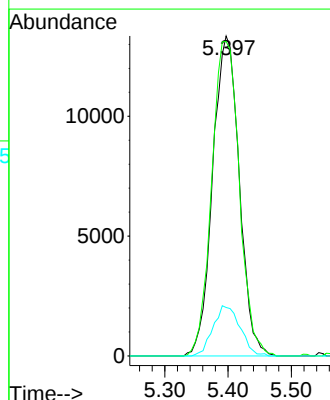
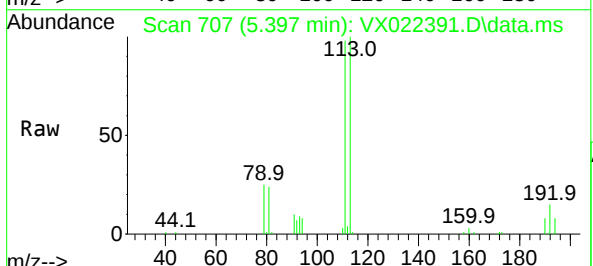
Tgt Ion:113 Resp: 38860

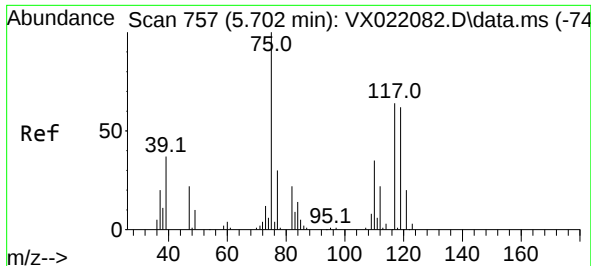
Ion Ratio Lower Upper

113 100

111 102.3 81.9 122.9

192 16.0 16.7 25.1#





#36

1,1-Dichloropropene

Concen: 4.94 ug/l

RT: 5.568 min Scan# 735

Delta R.T. -0.134 min

Lab File: VX022391.D

Acq: 04 Jun 2021 01:24

Tgt Ion: 75 Resp: 5943

Ion Ratio Lower Upper

75 100

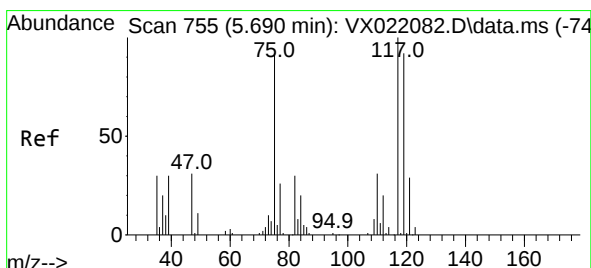
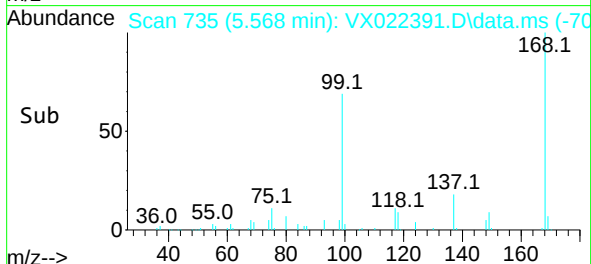
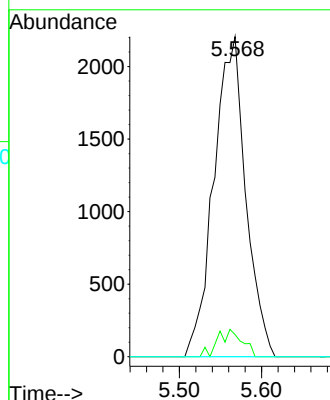
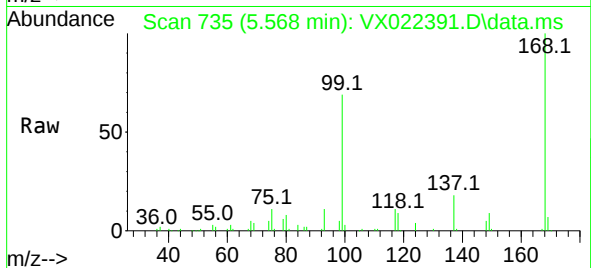
110 6.5 18.1 54.4#

77 0.0 25.3 37.9#

Instrument :

MSVOA\_X

ClientSampled :



#38

Carbon Tetrachloride

Concen: 6.19 ug/l

RT: 5.555 min Scan# 733

Delta R.T. -0.135 min

Lab File: VX022391.D

Acq: 04 Jun 2021 01:24

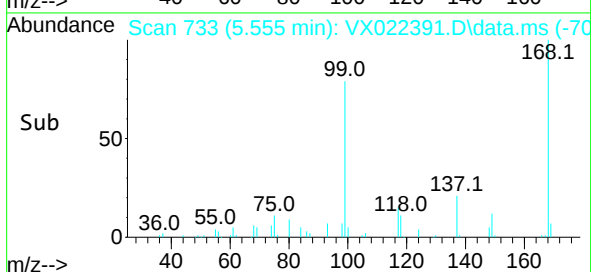
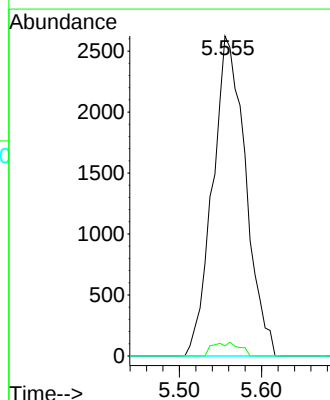
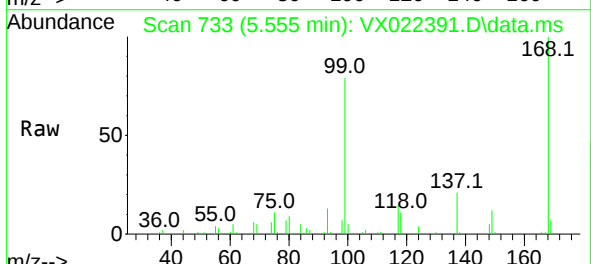
Tgt Ion: 117 Resp: 7284

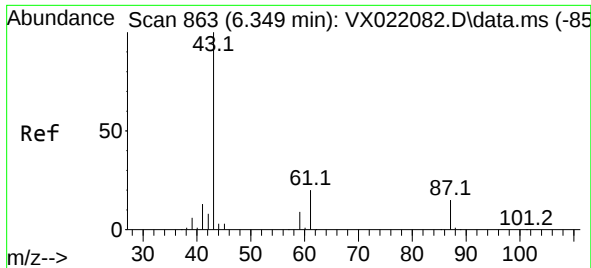
Ion Ratio Lower Upper

117 100

119 3.2 76.2 114.2#

121 0.0 24.8 37.2#

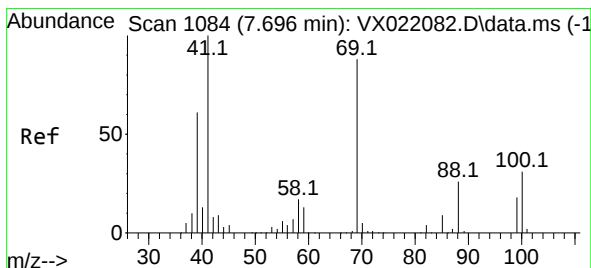
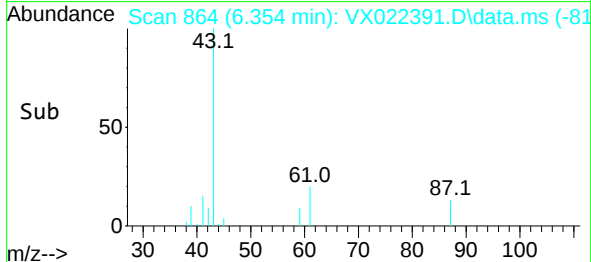
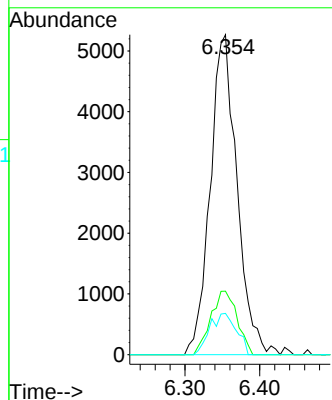
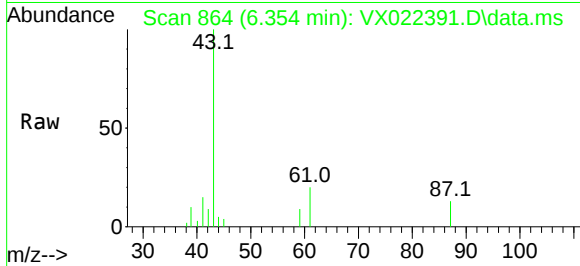




#43  
Isopropyl Acetate  
Concen: 5.44 ug/l  
RT: 6.354 min Scan# 864  
Delta R.T. 0.005 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

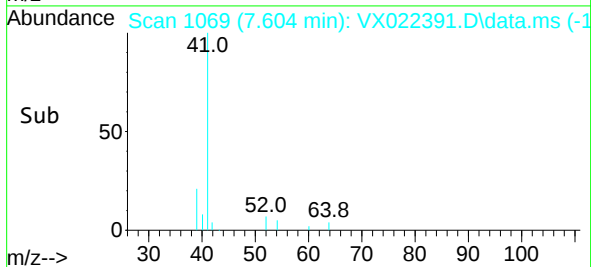
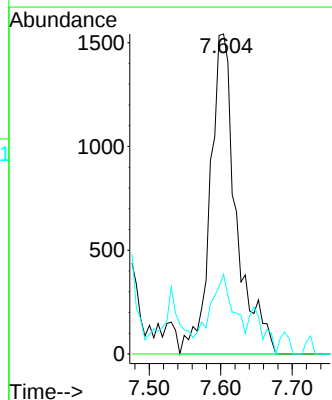
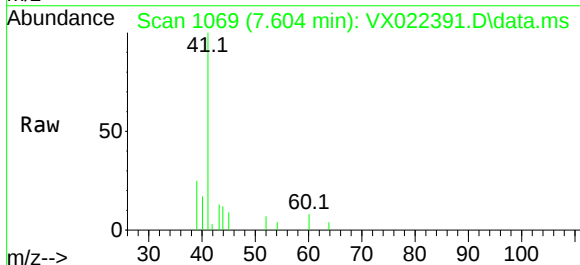
Instrument :  
MSVOA\_X  
ClientSampled :

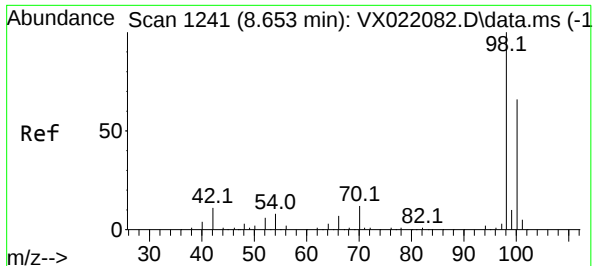
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 13132 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 19.5  | 18.2  | 27.4  |
| 87       | 12.8  | 12.5  | 18.7  |



#48  
Methyl methacrylate  
Concen: 3.50 ug/l  
RT: 7.604 min Scan# 1069  
Delta R.T. -0.092 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 3894   |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 0.0   | 76.0  | 114.0# |
| 39       | 0.0   | 44.6  | 67.0#  |

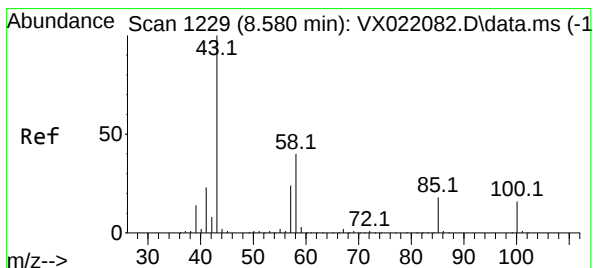
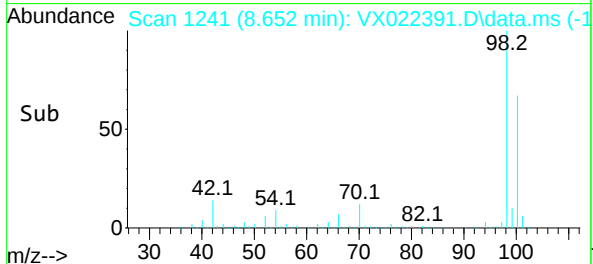
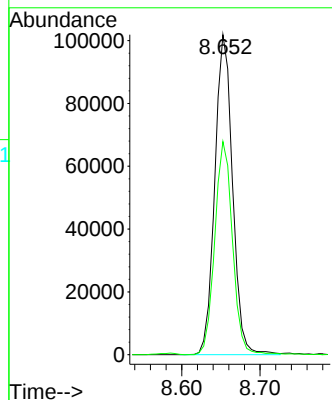
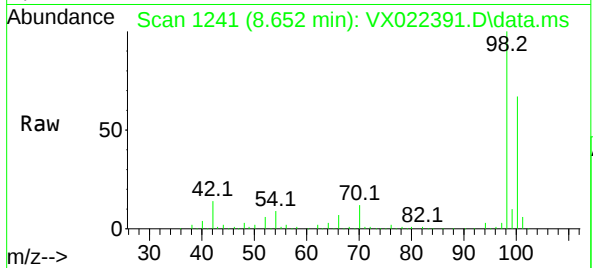




#50  
Toluene-d8  
Concen: 50.45 ug/l  
RT: 8.652 min Scan# 1241  
Delta R.T. -0.001 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

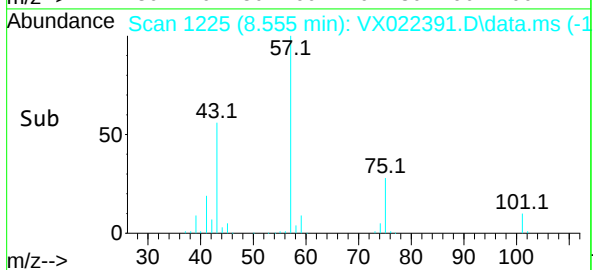
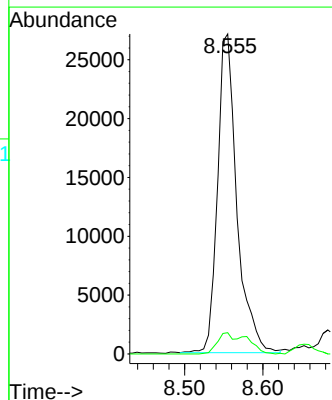
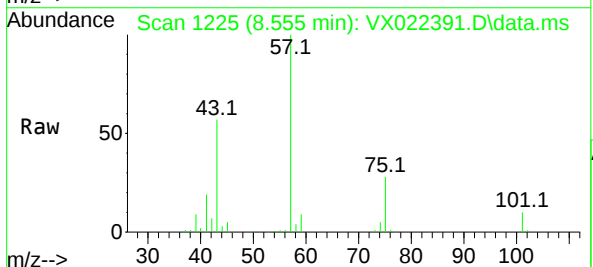
Instrument :  
MSVOA\_X  
ClientSampled :

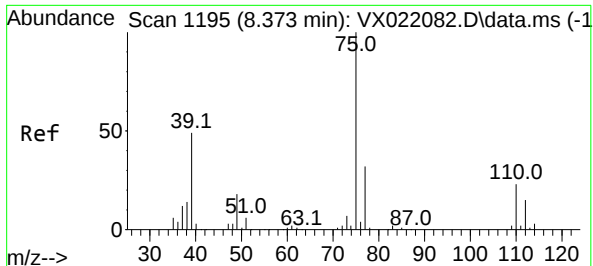
Tgt Ion: 98 Resp: 160403  
Ion Ratio Lower Upper  
98 100  
100 66.6 51.9 77.9



#51  
4-Methyl-2-Pentanone  
Concen: 32.20 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. -0.025 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

Tgt Ion: 43 Resp: 46545  
Ion Ratio Lower Upper  
43 100  
58 6.2 35.4 53.0#

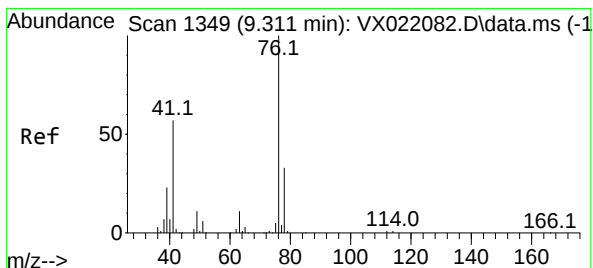
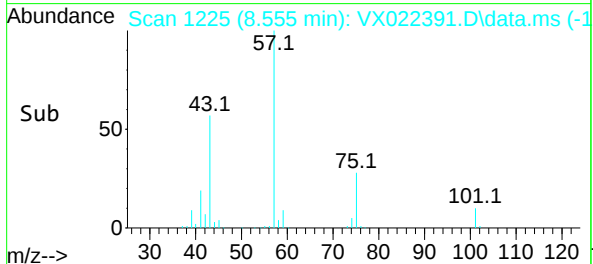
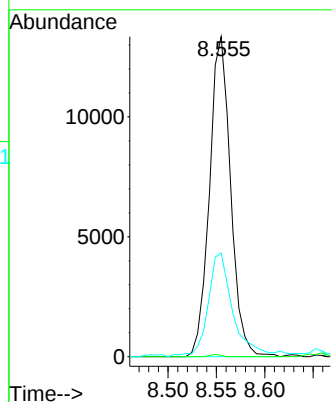
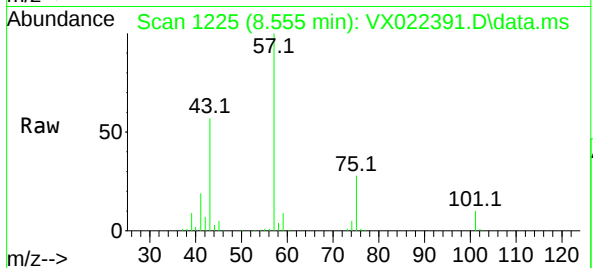




#54  
cis-1,3-Dichloropropene  
Concen: 12.76 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. 0.182 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

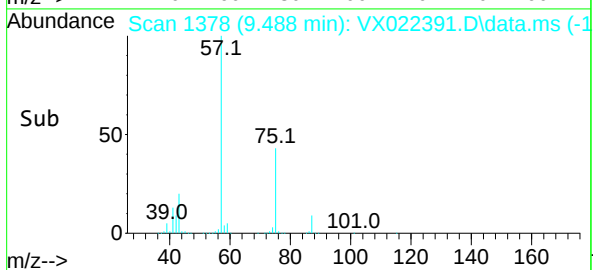
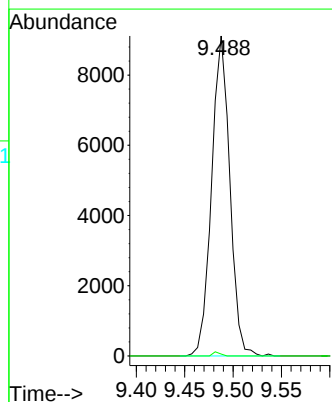
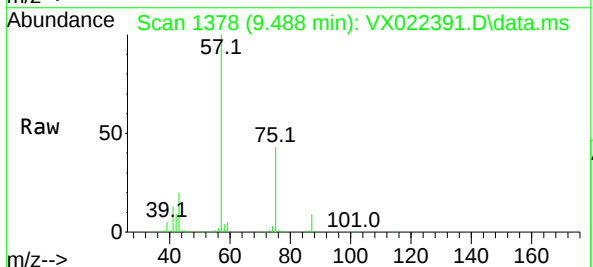
Instrument :  
MSVOA\_X  
ClientSampled :

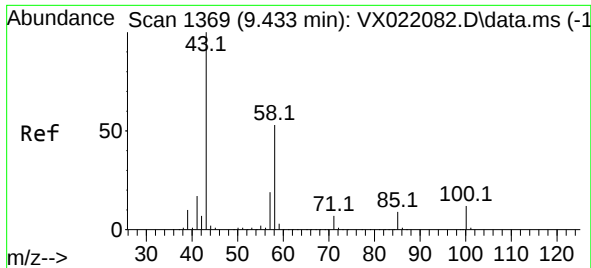
Tgt Ion: 75 Resp: 20313  
Ion Ratio Lower Upper  
75 100  
77 0.4 25.7 38.5#  
39 31.8 35.1 52.7#



#57  
1,3-Dichloropropane  
Concen: 7.36 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.177 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

Tgt Ion: 76 Resp: 11961  
Ion Ratio Lower Upper  
76 100  
78 0.5 26.2 39.2#

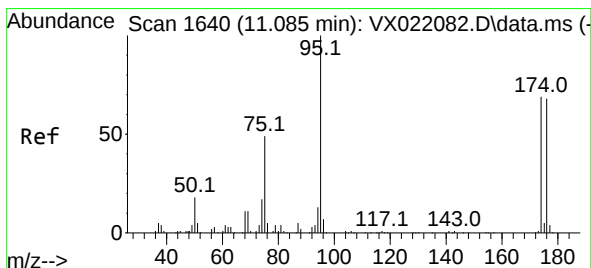
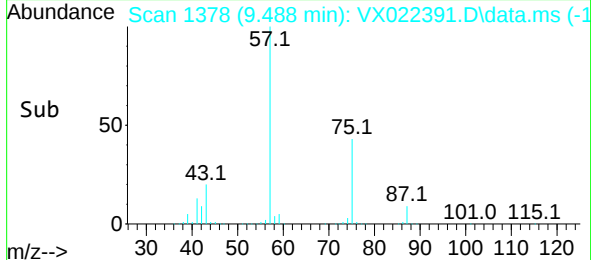
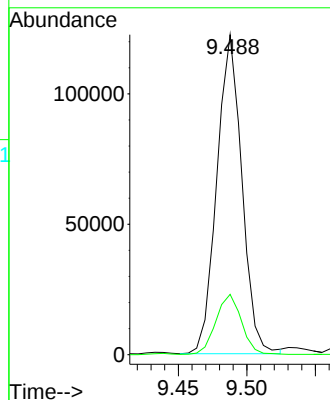
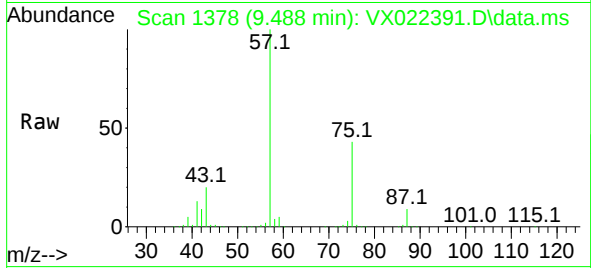




#59  
2-Hexanone  
Concen: 142.82 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.055 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

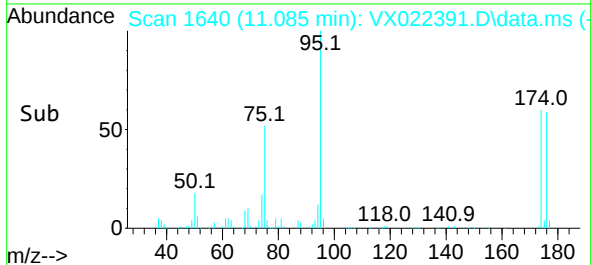
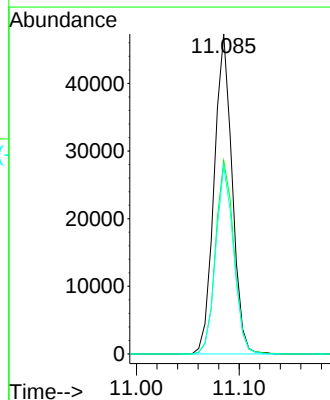
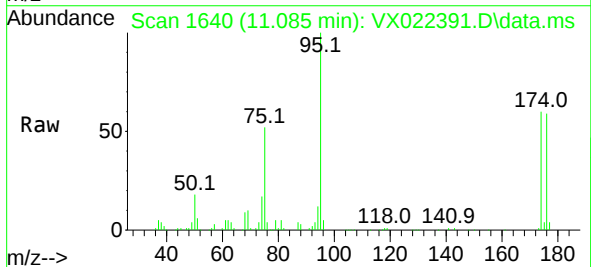
Instrument :  
MSVOA\_X  
ClientSampled :

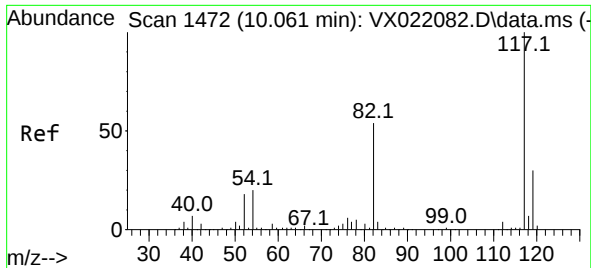
Tgt Ion: 43 Resp: 155262  
Ion Ratio Lower Upper  
43 100  
58 19.3 30.9 92.8#



#62  
4-Bromofluorobenzene  
Concen: 48.87 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.000 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

Tgt Ion: 95 Resp: 57434  
Ion Ratio Lower Upper  
95 100  
174 61.2 0.0 154.6  
176 58.4 0.0 155.8

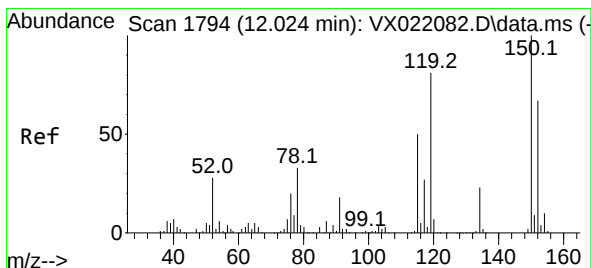
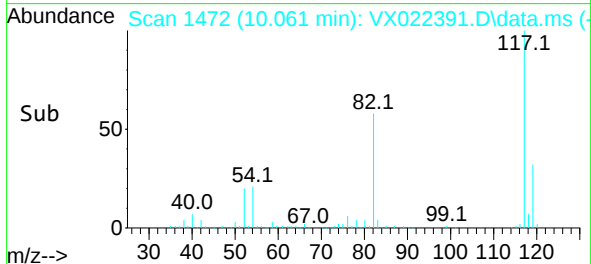
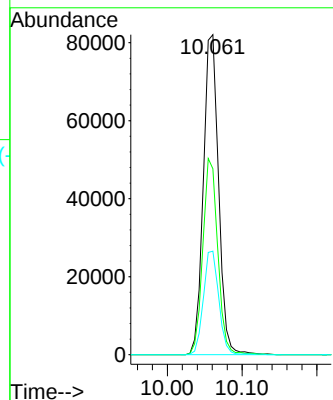
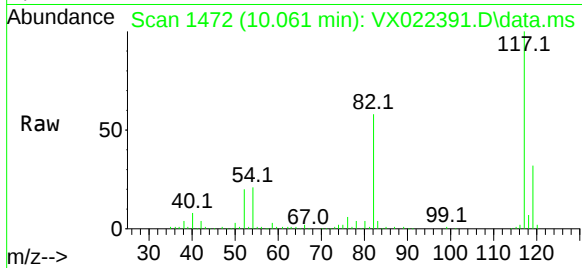




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.061 min Scan# 1472  
Delta R.T. -0.000 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

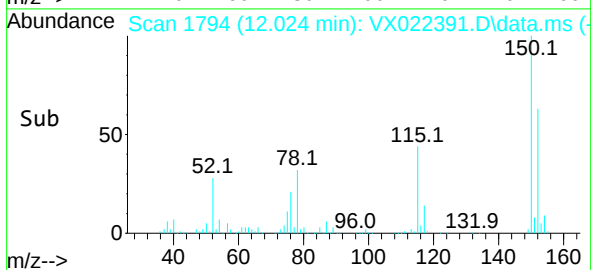
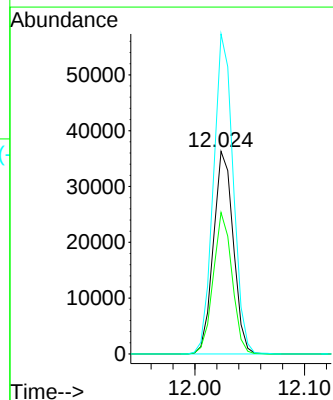
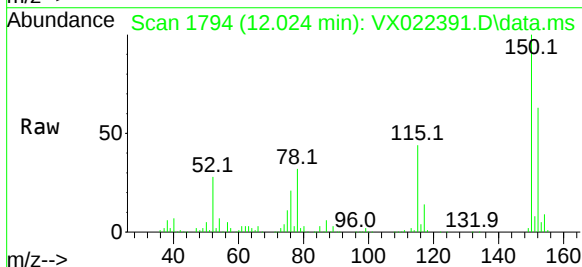
Instrument :  
MSVOA\_X  
ClientSampled :

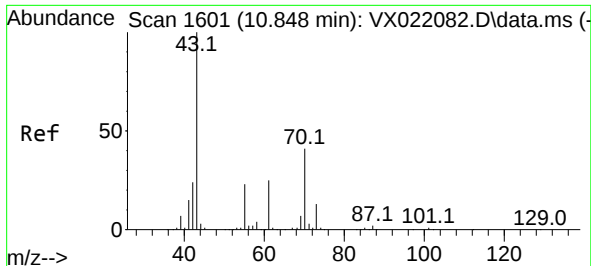
Tgt Ion:117 Resp: 116246  
Ion Ratio Lower Upper  
117 100  
82 58.1 47.4 71.2  
119 32.3 26.6 39.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

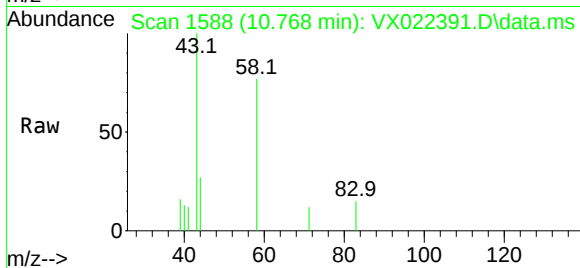
Tgt Ion:152 Resp: 45632  
Ion Ratio Lower Upper  
152 100  
115 66.1 41.1 123.3  
150 157.2 0.0 349.0



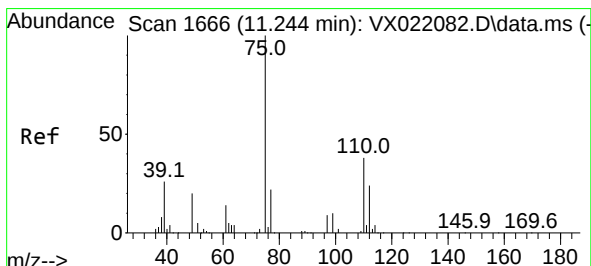
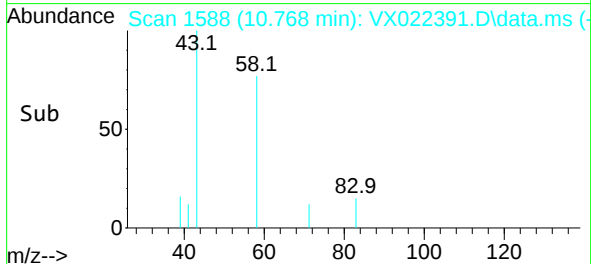
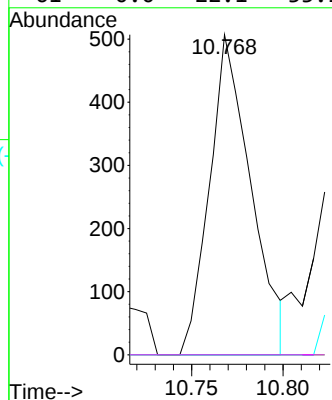


#74  
N-amy1 acetate  
Concen: 0.44 ug/l  
RT: 10.768 min Scan# 1588  
Delta R.T. -0.080 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

Instrument :  
MSVOA\_X  
ClientSampled :

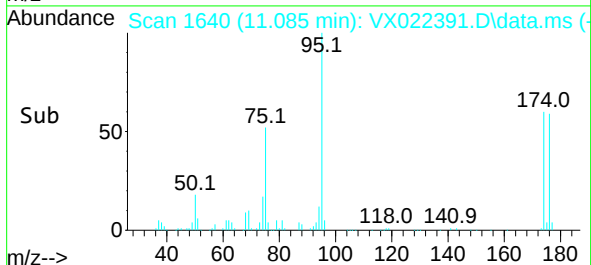
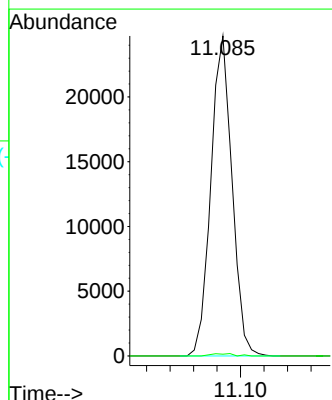
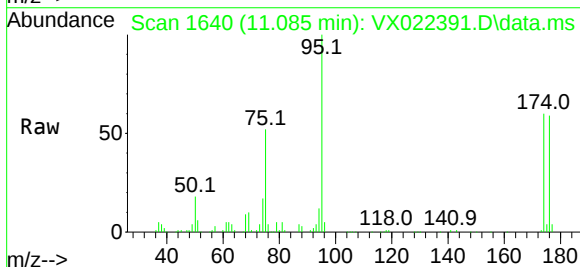


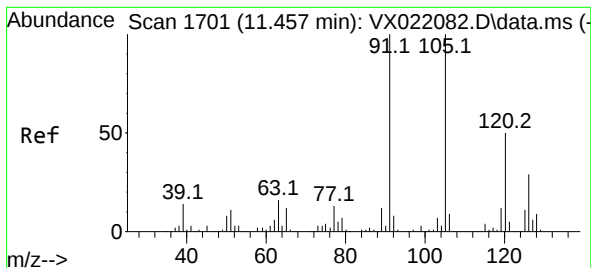
Tgt Ion: 43 Resp: 798  
Ion Ratio Lower Upper  
43 100  
70 0.0 39.0 58.6#  
55 0.0 21.5 32.3#  
61 0.0 22.1 33.1#



#76  
1,2,3-Trichloropropane  
Concen: 27.50 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

Tgt Ion: 75 Resp: 30960  
Ion Ratio Lower Upper  
75 100  
77 0.8 19.1 57.5#

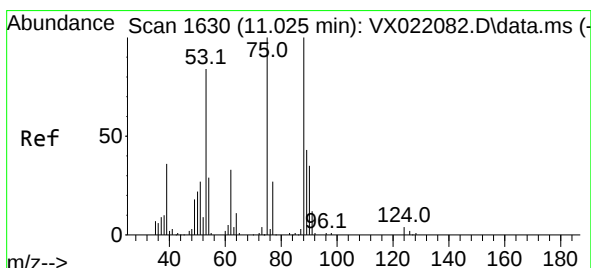
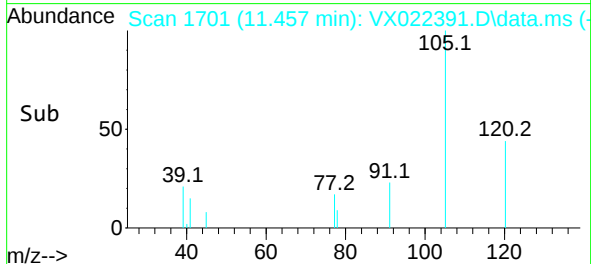
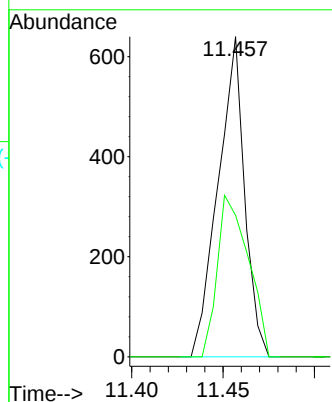
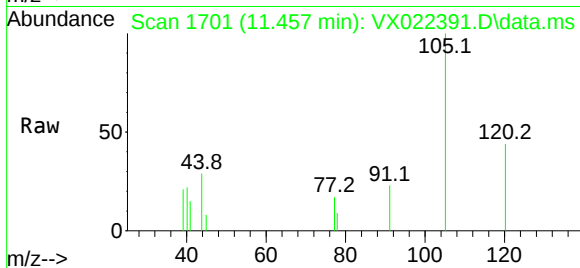




#80  
1,3,5-Trimethylbenzene  
Concen: 0.20 ug/l  
RT: 11.457 min Scan# 1701  
Delta R.T. -0.000 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

Instrument :  
MSVOA\_X  
ClientSampled :

Tgt Ion:105 Resp: 645  
Ion Ratio Lower Upper  
105 100  
120 59.2 23.8 71.5



#81  
trans-1,4-Dichloro-2-butene  
Concen: 65.16 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.060 min  
Lab File: VX022391.D  
Acq: 04 Jun 2021 01:24

Tgt Ion: 75 Resp: 30960  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#

