

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121821\  
 Data File : VX025890.D  
 Acq On : 17 Dec 2021 17:04  
 Operator : JC/MD  
 Sample : M5155-03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Dec 19 02:32:21 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 14 07:02:11 2021  
 Response via : Initial Calibration

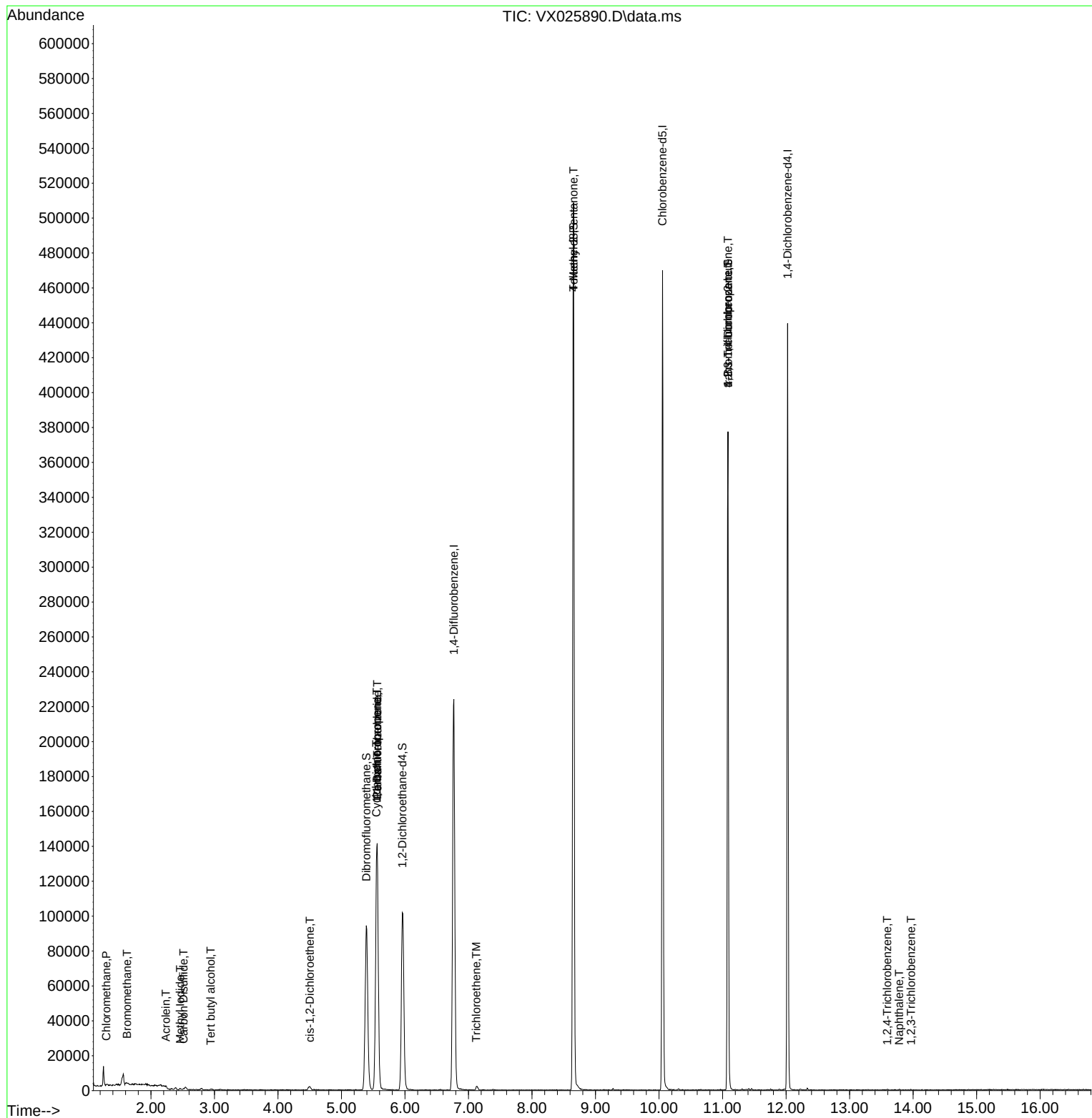
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 5.562          | 168  | 131462              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 230567              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 208666              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 86845               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 99702               | 52.710    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 105.420% |           |        |          |
| 35) Dibromofluoromethane      | 5.391          | 113  | 80131               | 49.833    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 99.660%  |           |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 296151              | 50.548    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 101.100% |           |        |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 99600               | 44.753    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 89.500%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           | Qvalue |          |
| 3) Chloromethane              | 1.294          | 50   | 378                 | 0.247     | ug/l   | 91       |
| 5) Bromomethane               | 1.624          | 94   | 650                 | 0.559     | ug/l   | 82       |
| 10) Methyl Iodide             | 2.459          | 142  | 691                 | 0.387     | ug/l # | 92       |
| 11) Tert butyl alcohol        | 2.940          | 59   | 306                 | 0.806     | ug/l # | 73       |
| 13) Acrolein                  | 2.233          | 56   | 79                  | 0.305     | ug/l # | 37       |
| 16) Acetone                   | 2.392          | 43   | 1172                | Below Cal |        | 98       |
| 17) Carbon Disulfide          | 2.514          | 76   | 816                 | 0.205     | ug/l   | 99       |
| 20) Methylene Chloride        | 2.794          | 84   | 320                 | Below Cal | #      | 76       |
| 27) cis-1,2-Dichloroethene    | 4.501          | 96   | 1365                | 0.741     | ug/l   | 92       |
| 31) Cyclohexane               | 5.550          | 56   | 3220                | 1.400     | ug/l # | 29       |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 10734               | 4.922     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.562          | 117  | 14275               | 5.626     | ug/l # | 16       |
| 44) Trichloroethene           | 7.123          | 130  | 950                 | 0.525     | ug/l   | 78       |
| 51) 4-Methyl-2-Pentanone      | 8.653          | 43   | 1399                | 0.548     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 53214               | 26.744    | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 53214               | 82.913    | ug/l # | 10       |
| 93) 1,2,4-Trichlorobenzene    | 13.591         | 180  | 226                 | 3.492     | ug/l # | 48       |
| 95) Naphthalene               | 13.780         | 128  | 291                 | 2.458     | ug/l # | 69       |
| 96) 1,2,3-Trichlorobenzene    | 13.969         | 180  | 168                 | 3.085     | ug/l # | 53       |
| -----                         |                |      |                     |           |        |          |

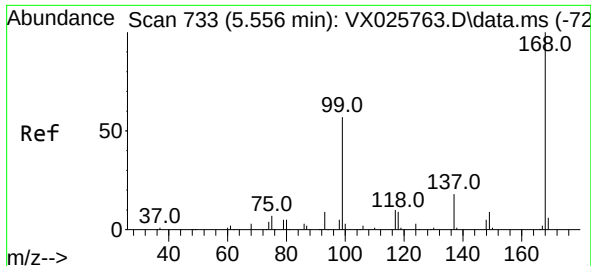
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_X  
ClientSampleId :

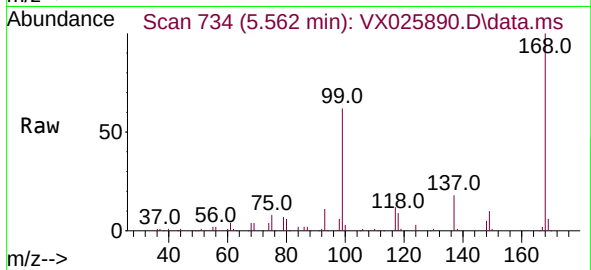
Quant Time: Dec 19 02:32:21 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 14 07:02:11 2021  
Response via : Initial Calibration



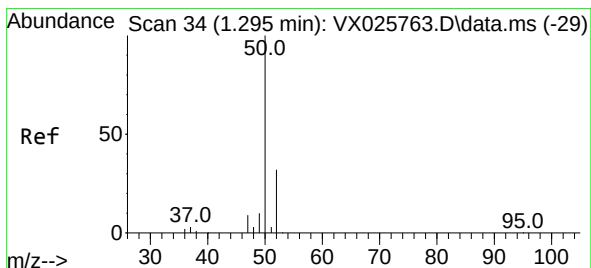
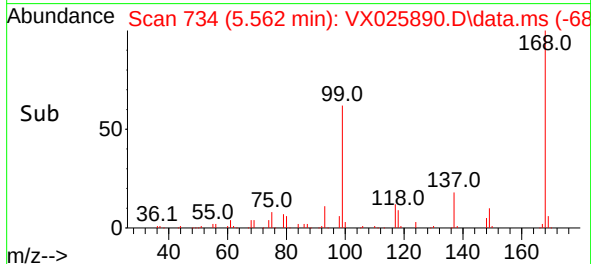
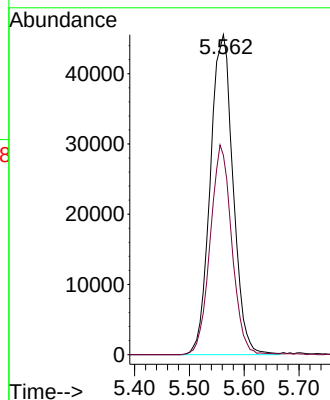


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX025890.D  
Acq: 17 Dec 2021 17:04

Instrument :  
MSVOA\_X  
ClientSampleId :

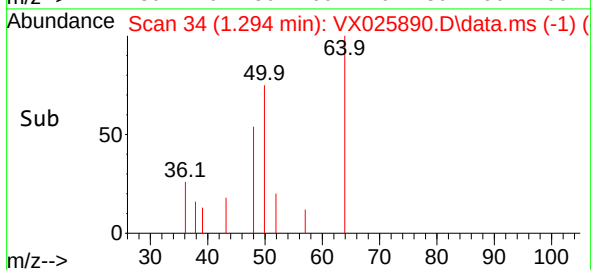
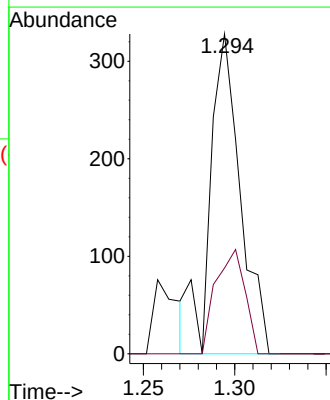
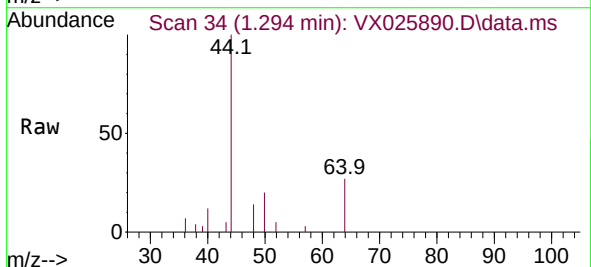


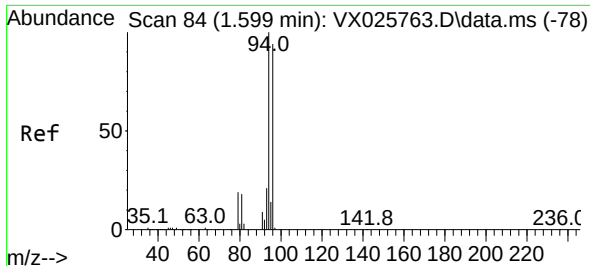
Tgt Ion:168 Resp: 131462  
Ion Ratio Lower Upper  
168 100  
99 62.3 45.8 68.8



#3  
Chloromethane  
Concen: 0.247 ug/l  
RT: 1.294 min Scan# 34  
Delta R.T. -0.000 min  
Lab File: VX025890.D  
Acq: 17 Dec 2021 17:04

Tgt Ion: 50 Resp: 378  
Ion Ratio Lower Upper  
50 100  
52 26.8 25.4 38.0

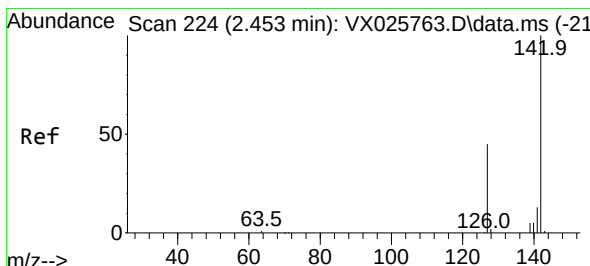
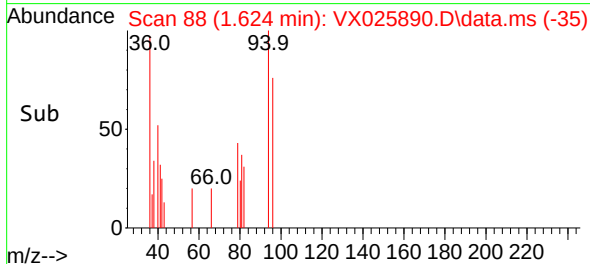
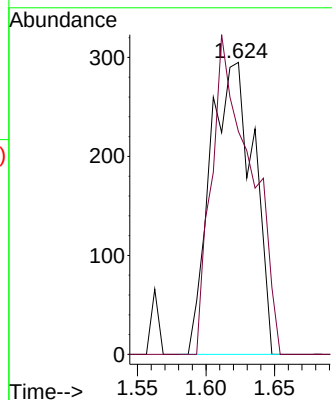
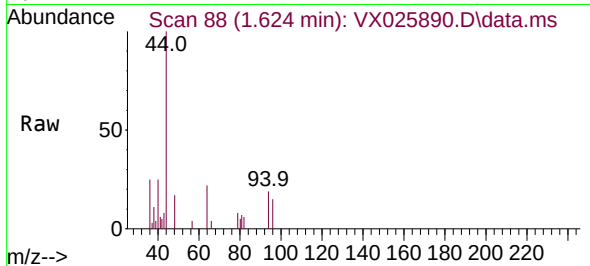




#5  
Bromomethane  
Concen: 0.559 ug/l  
RT: 1.624 min Scan# 84  
Delta R.T. 0.024 min  
Lab File: VX025890.D  
Acq: 17 Dec 2021 17:04

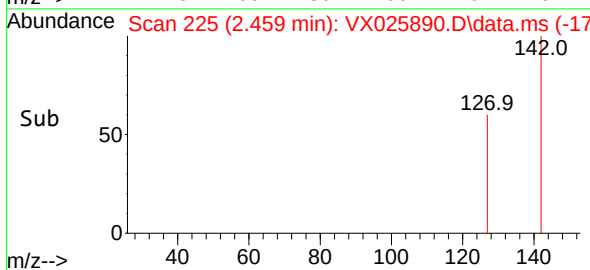
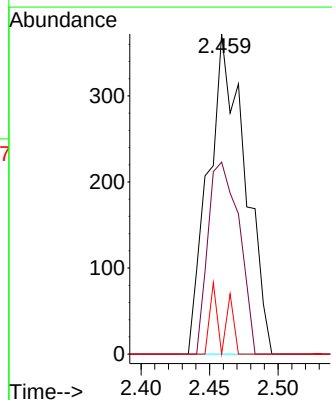
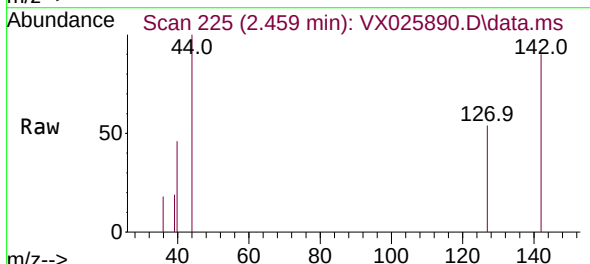
Instrument :  
MSVOA\_X  
ClientSampleId :

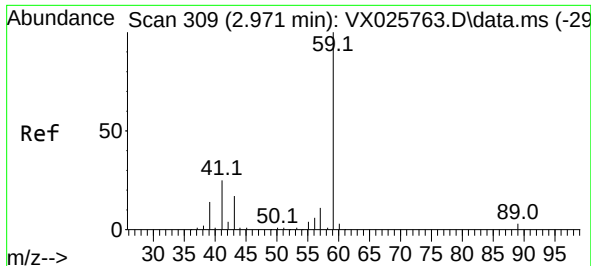
Tgt Ion: 94 Resp: 650  
Ion Ratio Lower Upper  
94 100  
96 76.3 75.0 112.4



#10  
Methyl Iodide  
Concen: 0.387 ug/l  
RT: 2.459 min Scan# 225  
Delta R.T. 0.006 min  
Lab File: VX025890.D  
Acq: 17 Dec 2021 17:04

Tgt Ion: 142 Resp: 691  
Ion Ratio Lower Upper  
142 100  
127 50.9 37.5 56.3  
141 8.1 11.4 17.0#





#11

Tert butyl alcohol

Concen: 0.806 ug/l

RT: 2.940 min Scan# 309

Delta R.T. -0.031 min

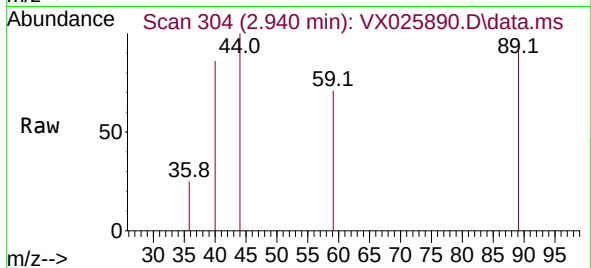
Lab File: VX025890.D

Acq: 17 Dec 2021 17:04

Instrument :

MSVOA\_X

ClientSampleId :

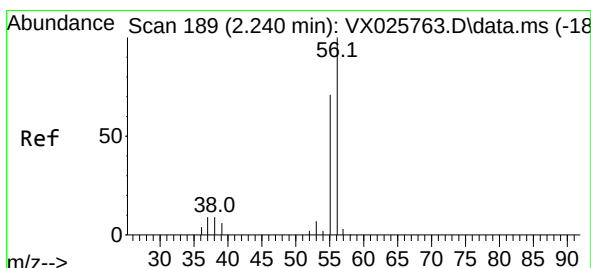
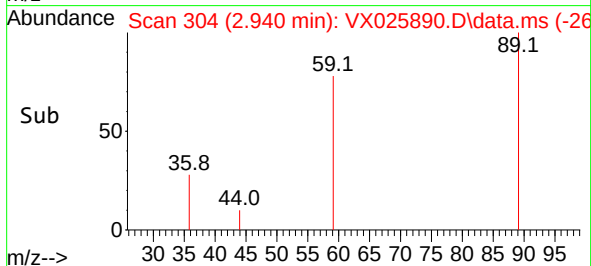
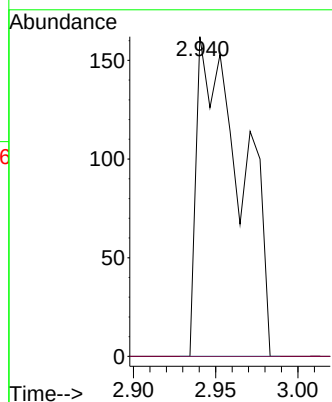


Tgt Ion: 59 Resp: 306

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



#13

Acrolein

Concen: 0.305 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.006 min

Lab File: VX025890.D

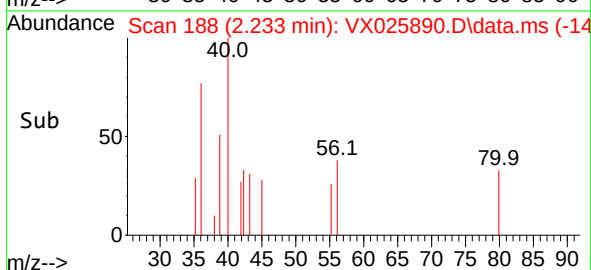
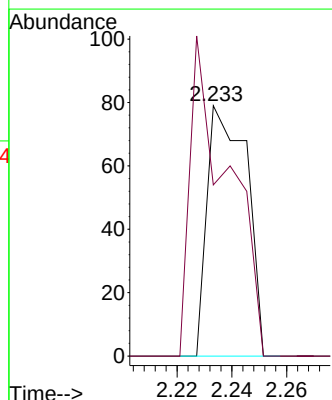
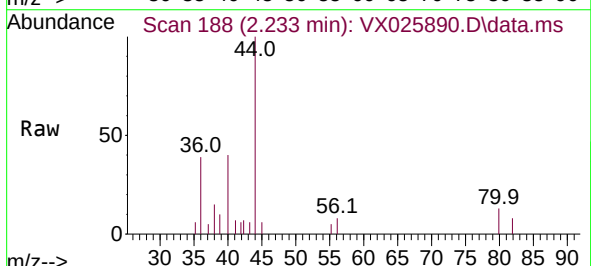
Acq: 17 Dec 2021 17:04

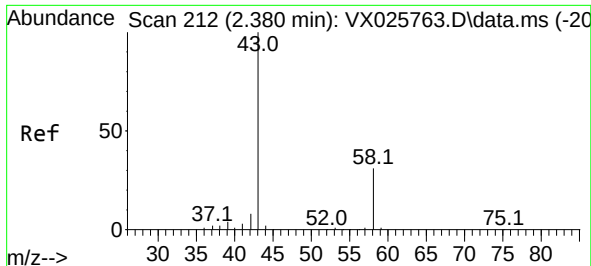
Tgt Ion: 56 Resp: 79

Ion Ratio Lower Upper

56 100

55 124.1 57.4 86.2#

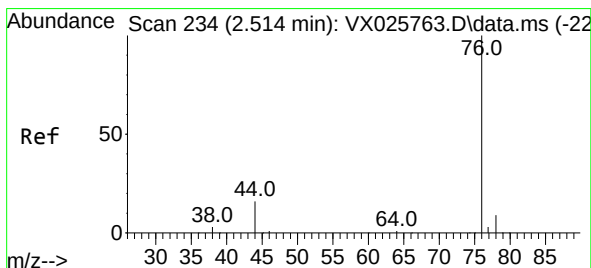
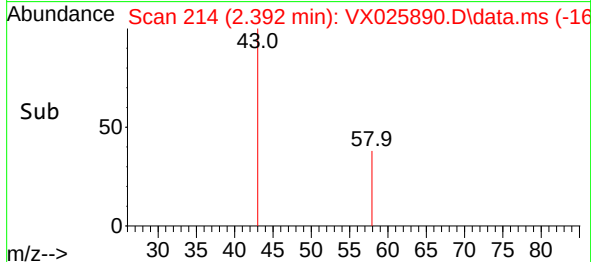
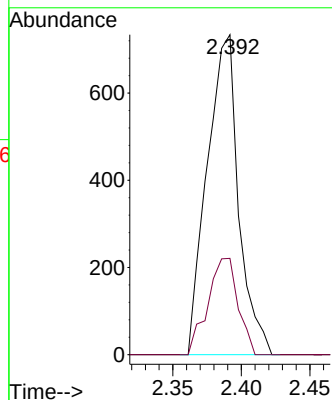
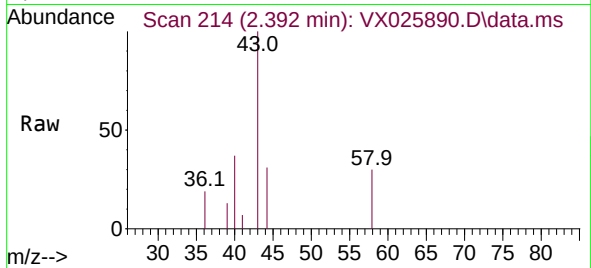




#16  
Acetone  
Concen: Below Cal  
RT: 2.392 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: VX025890.D  
Acq: 17 Dec 2021 17:04

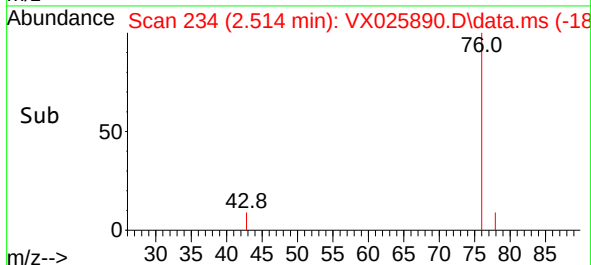
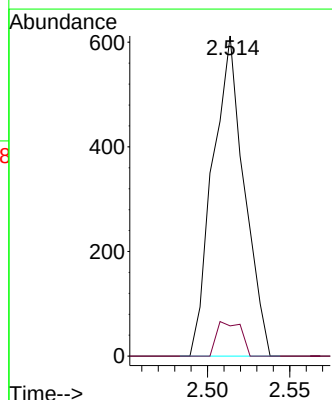
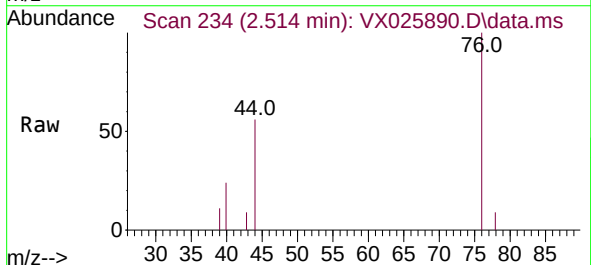
Instrument :  
MSVOA\_X  
ClientSampleId :

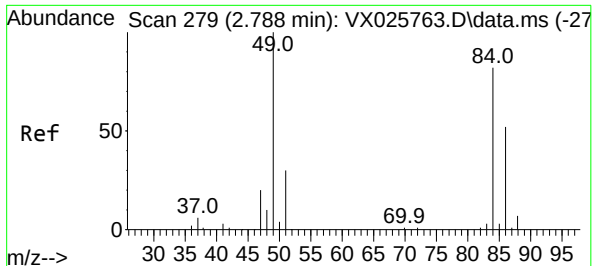
Tgt Ion: 43 Resp: 1172  
Ion Ratio Lower Upper  
43 100  
58 30.1 24.8 37.2



#17  
Carbon Disulfide  
Concen: 0.205 ug/l  
RT: 2.514 min Scan# 234  
Delta R.T. -0.000 min  
Lab File: VX025890.D  
Acq: 17 Dec 2021 17:04

Tgt Ion: 76 Resp: 816  
Ion Ratio Lower Upper  
76 100  
78 9.5 7.2 10.8





#20

Methylene Chloride

Concen: Below Cal

RT: 2.794 min Scan# 21

Delta R.T. 0.006 min

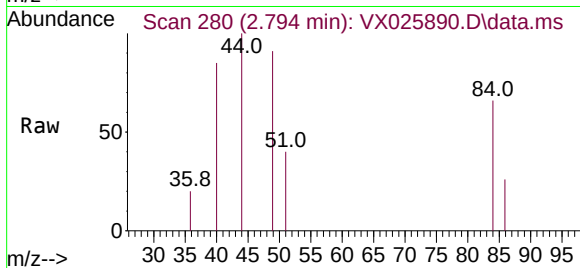
Lab File: VX025890.D

Acq: 17 Dec 2021 17:04

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion: 84 Resp: 320

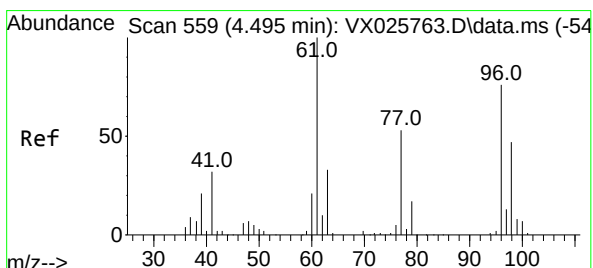
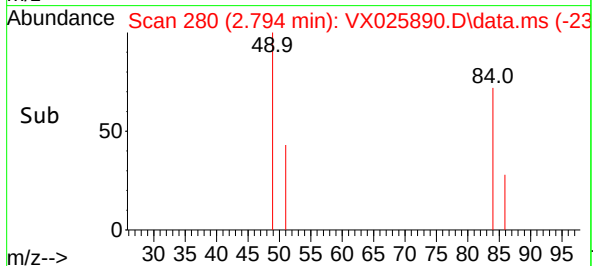
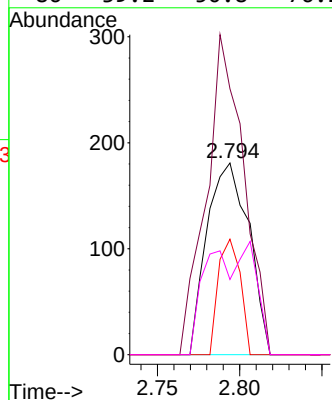
Ion Ratio Lower Upper

84 100

49 138.7 97.1 145.7

51 60.2 29.3 43.9#

86 39.2 50.8 76.2#



#27

cis-1,2-Dichloroethene

Concen: 0.741 ug/l

RT: 4.501 min Scan# 560

Delta R.T. 0.006 min

Lab File: VX025890.D

Acq: 17 Dec 2021 17:04

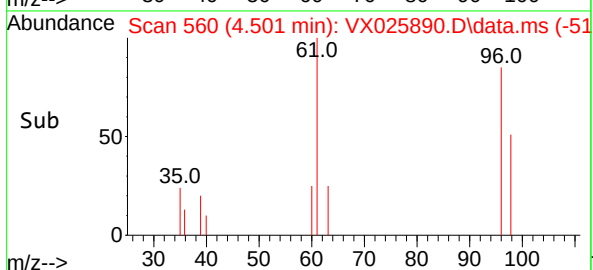
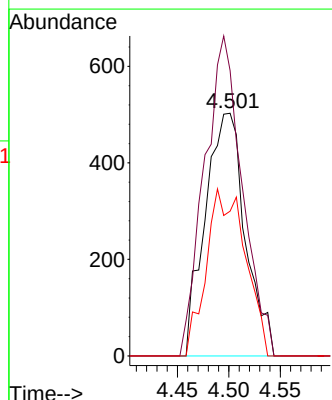
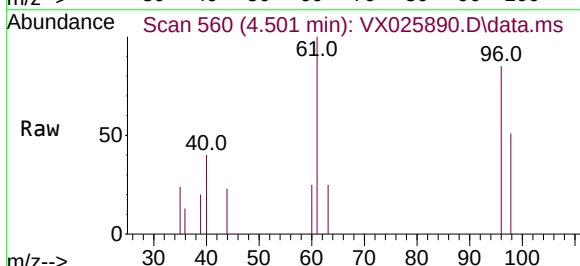
Tgt Ion: 96 Resp: 1365

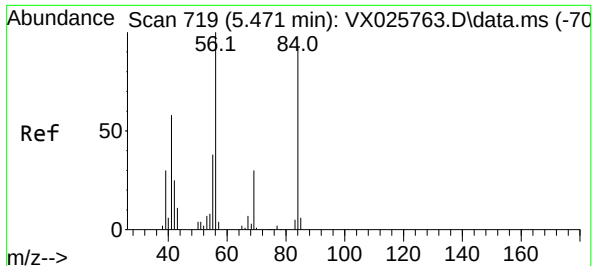
Ion Ratio Lower Upper

96 100

61 124.5 0.0 276.8

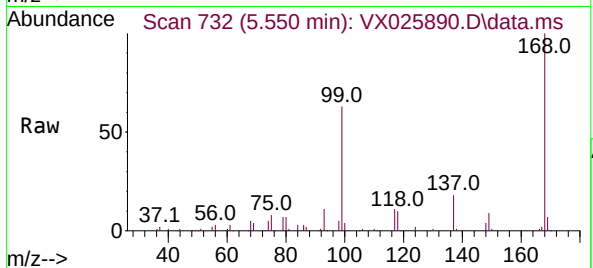
98 66.7 0.0 130.6



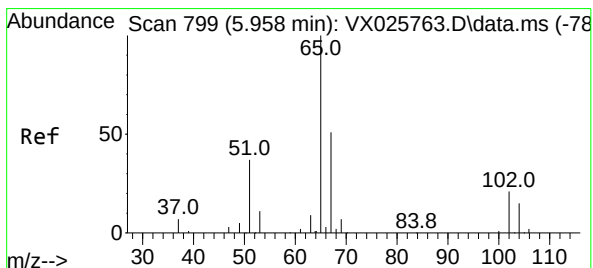
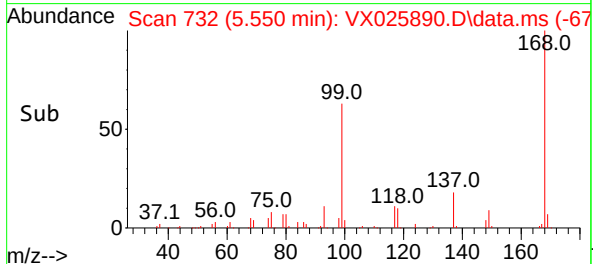
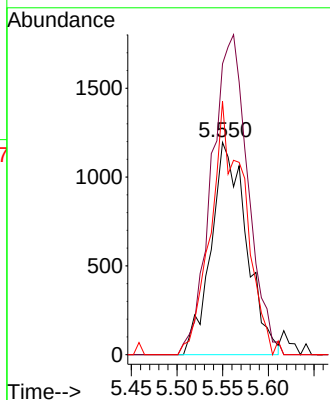


#31  
Cyclohexane  
Concen: 1.400 ug/l  
RT: 5.550 min Scan# 719  
Delta R.T. 0.079 min  
Lab File: VX025890.D  
Acq: 17 Dec 2021 17:04

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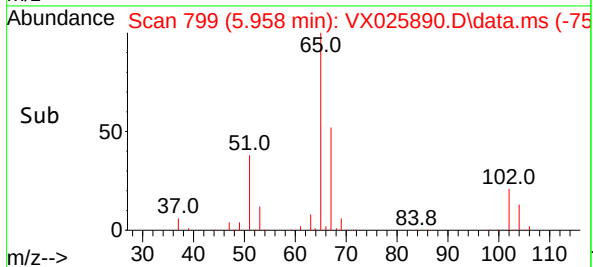
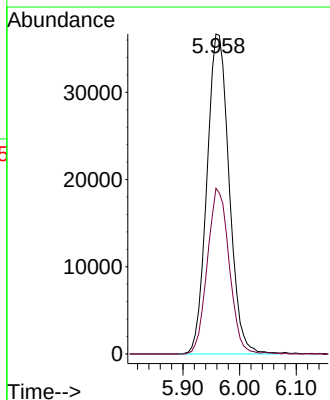
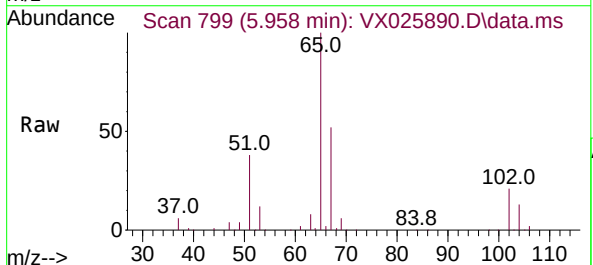


Tgt Ion: 56 Resp: 3220  
Ion Ratio Lower Upper  
56 100  
69 137.0 23.9 35.9#  
84 119.2 73.2 109.8#

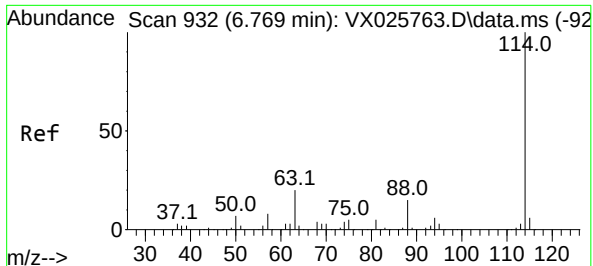


#33  
1,2-Dichloroethane-d4  
Concen: 52.710 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. -0.000 min  
Lab File: VX025890.D  
Acq: 17 Dec 2021 17:04

Tgt Ion: 65 Resp: 99702  
Ion Ratio Lower Upper  
65 100  
67 50.8 0.0 103.4



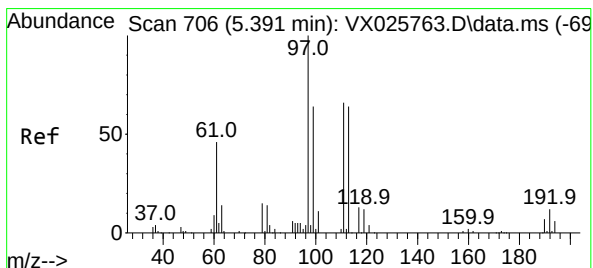
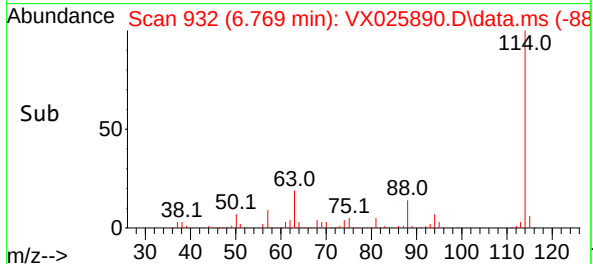
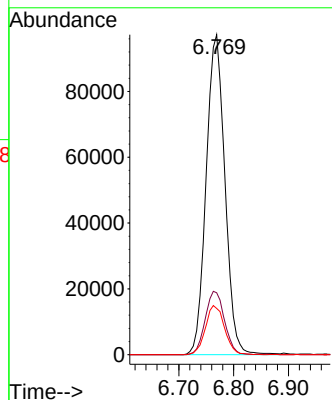
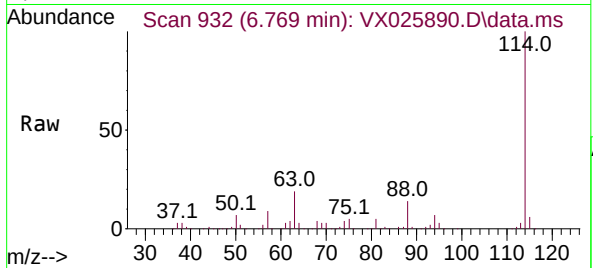




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.769 min Scan# 91  
 Delta R.T. 0.000 min  
 Lab File: VX025890.D  
 Acq: 17 Dec 2021 17:04

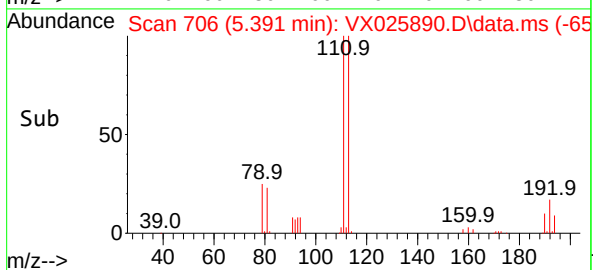
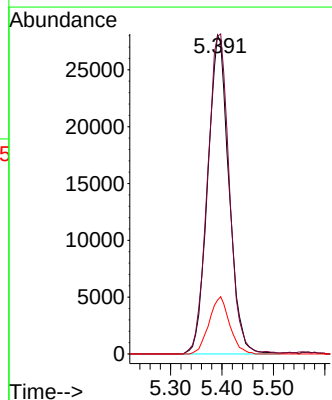
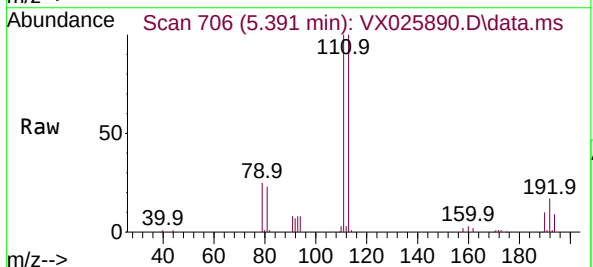
Instrument :  
 MSVOA\_X  
 ClientSampleId :

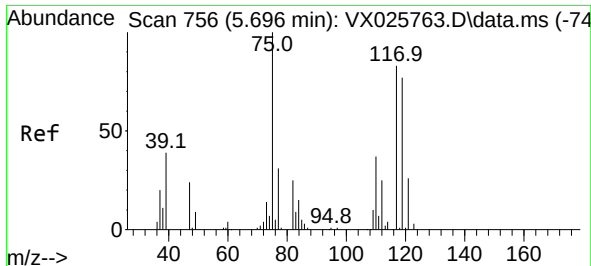
Tgt Ion:114 Resp: 230567  
 Ion Ratio Lower Upper  
 114 100  
 63 19.3 0.0 40.0  
 88 14.5 0.0 30.6



#35  
 Dibromofluoromethane  
 Concen: 49.833 ug/l  
 RT: 5.391 min Scan# 706  
 Delta R.T. -0.000 min  
 Lab File: VX025890.D  
 Acq: 17 Dec 2021 17:04

Tgt Ion:113 Resp: 80131  
 Ion Ratio Lower Upper  
 113 100  
 111 102.9 81.8 122.8  
 192 17.4 15.0 22.4





#36

1,1-Dichloropropene

Concen: 4.922 ug/l

RT: 5.556 min Scan# 71

Delta R.T. -0.140 min

Lab File: VX025890.D

Acq: 17 Dec 2021 17:04

Instrument :

MSVOA\_X

ClientSampleId :

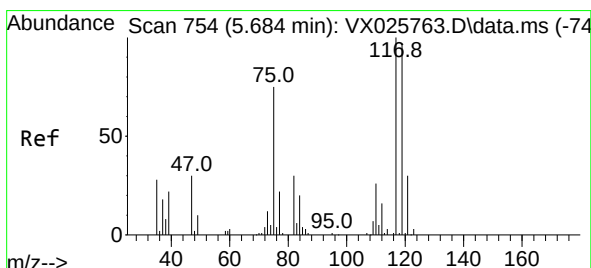
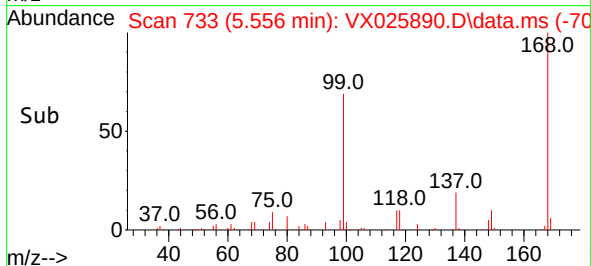
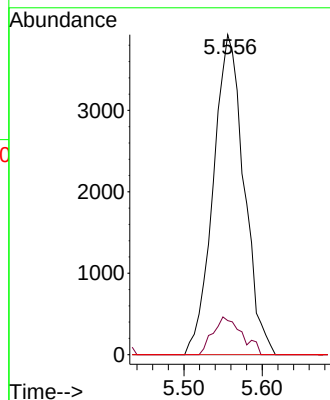
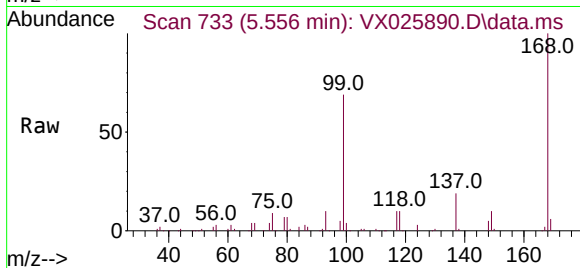
Tgt Ion: 75 Resp: 10734

Ion Ratio Lower Upper

75 100

110 11.1 18.2 54.6#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 5.626 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.122 min

Lab File: VX025890.D

Acq: 17 Dec 2021 17:04

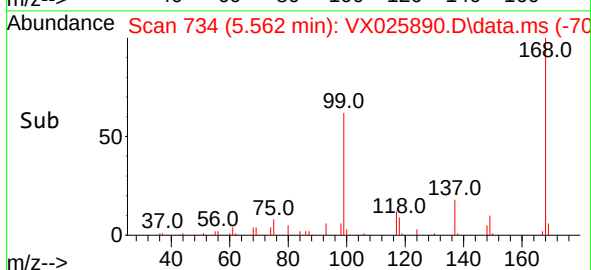
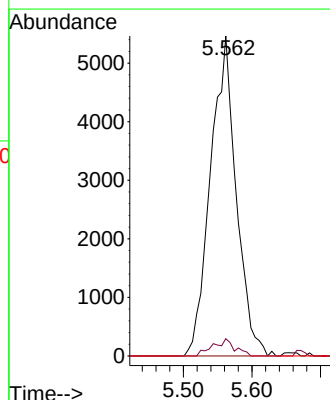
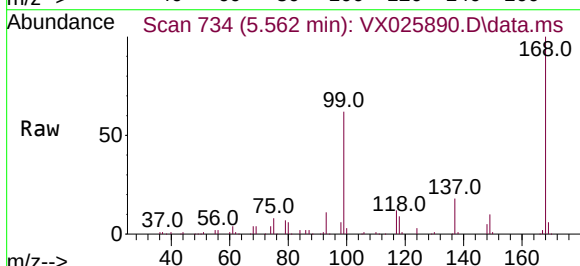
Tgt Ion: 117 Resp: 14275

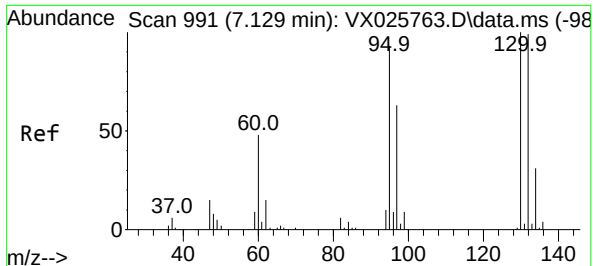
Ion Ratio Lower Upper

117 100

119 5.4 77.2 115.8#

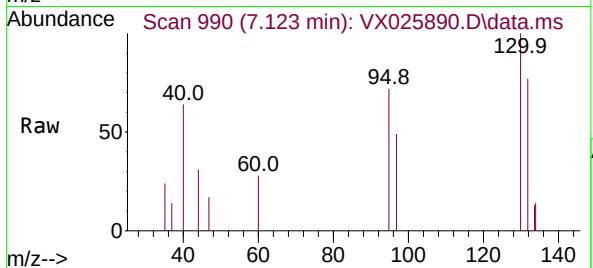
121 0.0 23.8 35.8#



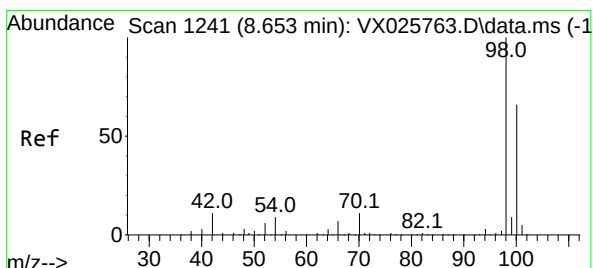
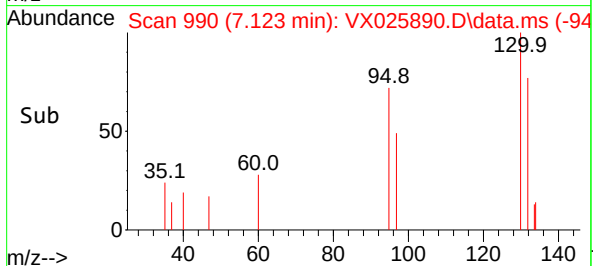
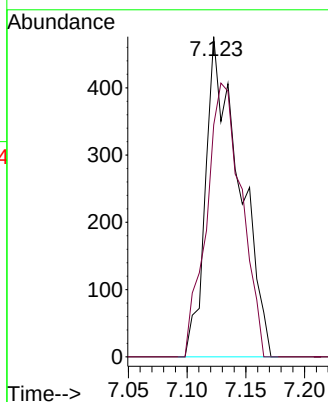


#44  
 Trichloroethene  
 Concen: 0.525 ug/l  
 RT: 7.123 min Scan# 991  
 Delta R.T. -0.006 min  
 Lab File: VX025890.D  
 Acq: 17 Dec 2021 17:04

Instrument :  
 MSVOA\_X  
 ClientSampleId :

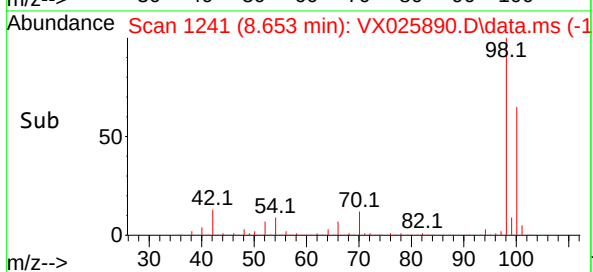
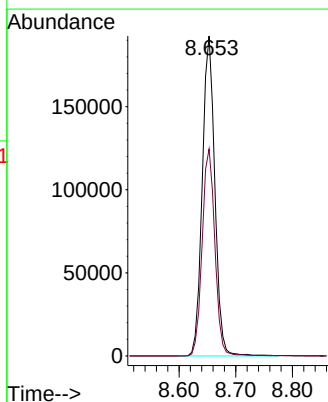
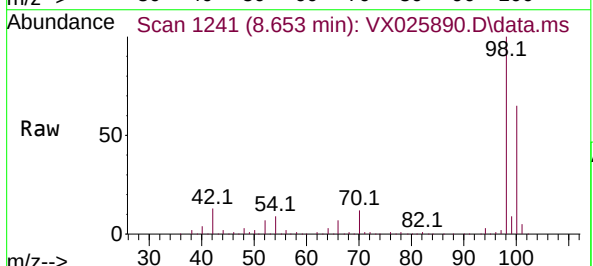


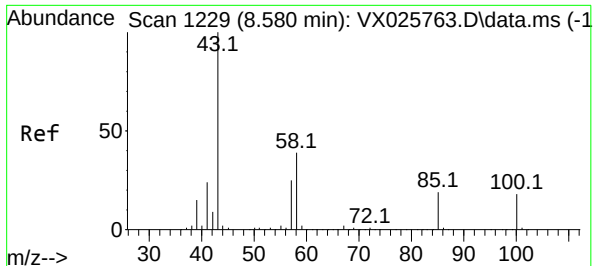
Tgt Ion:130 Resp: 950  
 Ion Ratio Lower Upper  
 130 100  
 95 72.5 0.0 186.4



#50  
 Toluene-d8  
 Concen: 50.548 ug/l  
 RT: 8.653 min Scan# 1241  
 Delta R.T. -0.000 min  
 Lab File: VX025890.D  
 Acq: 17 Dec 2021 17:04

Tgt Ion: 98 Resp: 296151  
 Ion Ratio Lower Upper  
 98 100  
 100 65.7 52.6 78.8

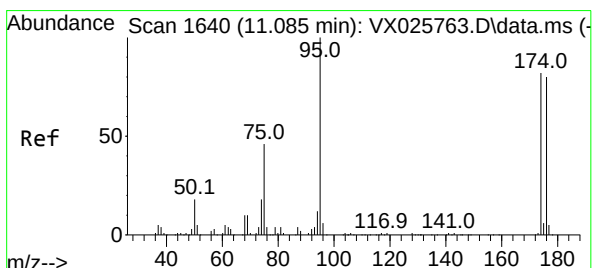
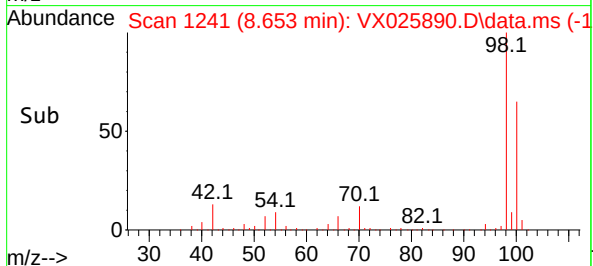
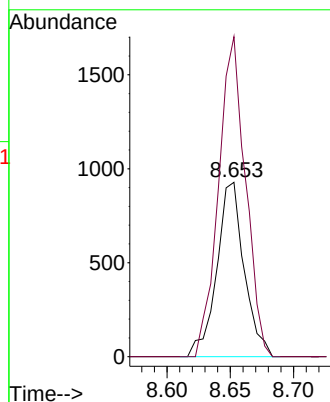
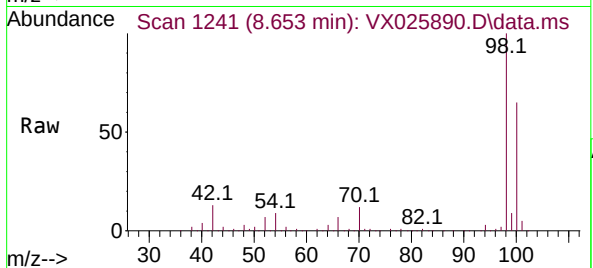




#51  
4-Methyl-2-Pentanone  
Concen: 0.548 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. 0.073 min  
Lab File: VX025890.D  
Acq: 17 Dec 2021 17:04

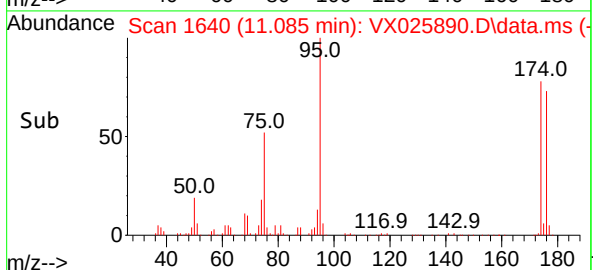
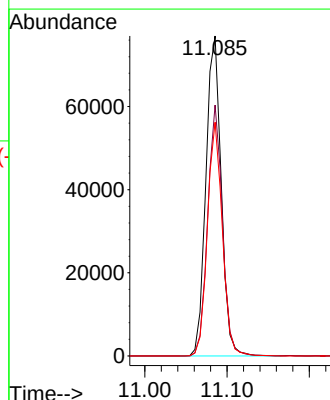
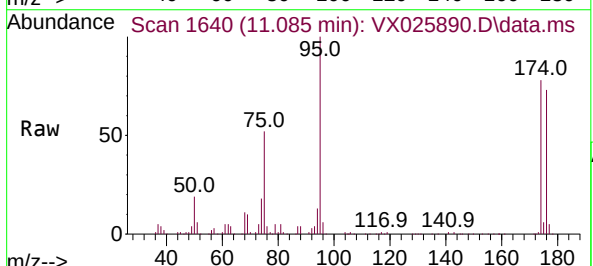
Instrument :  
MSVOA\_X  
ClientSampleId :

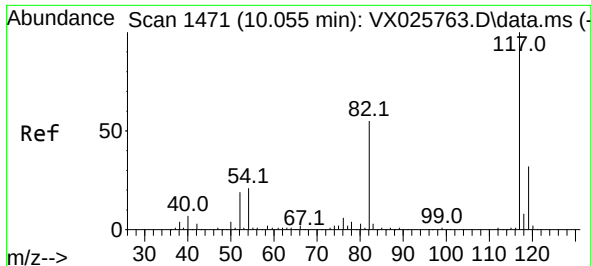
Tgt Ion: 43 Resp: 1399  
Ion Ratio Lower Upper  
43 100  
58 180.8 30.8 46.2#



#62  
4-Bromofluorobenzene  
Concen: 44.753 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.000 min  
Lab File: VX025890.D  
Acq: 17 Dec 2021 17:04

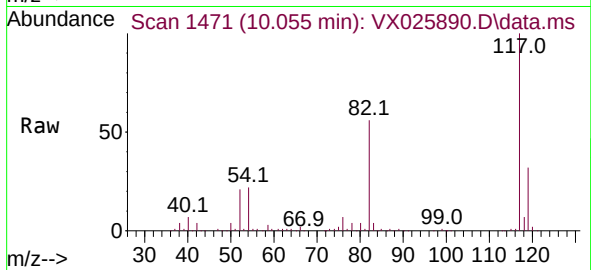
Tgt Ion: 95 Resp: 99600  
Ion Ratio Lower Upper  
95 100  
174 75.6 0.0 157.4  
176 71.3 0.0 154.6



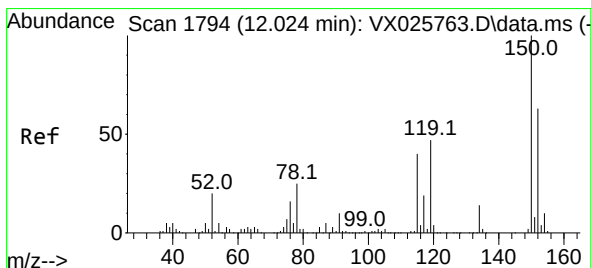
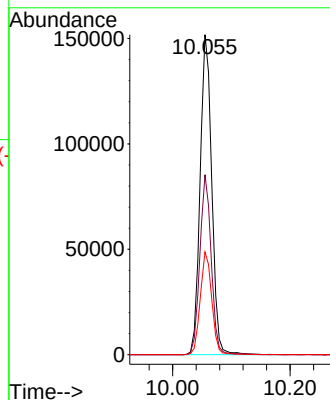
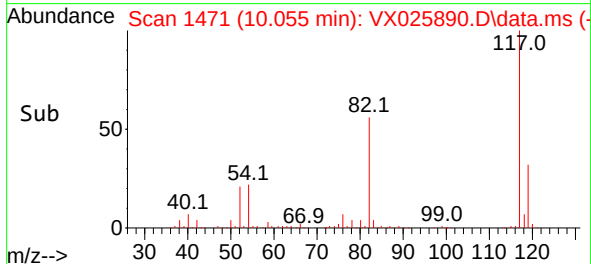


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX025890.D  
Acq: 17 Dec 2021 17:04

Instrument :  
MSVOA\_X  
ClientSampleId :

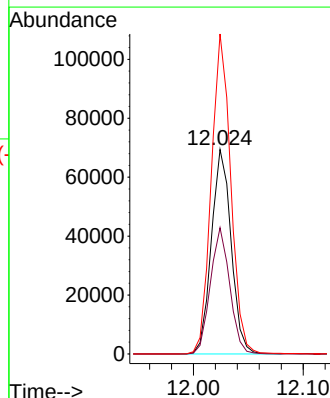
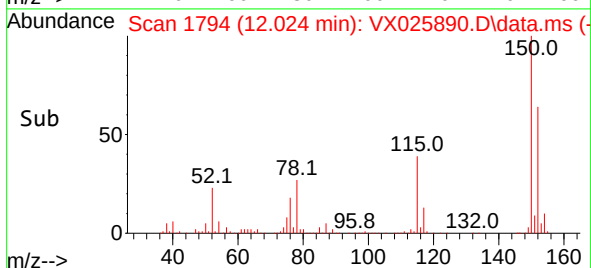
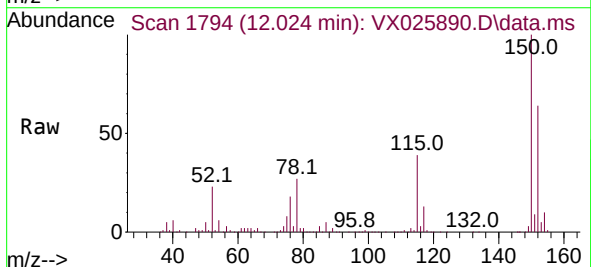


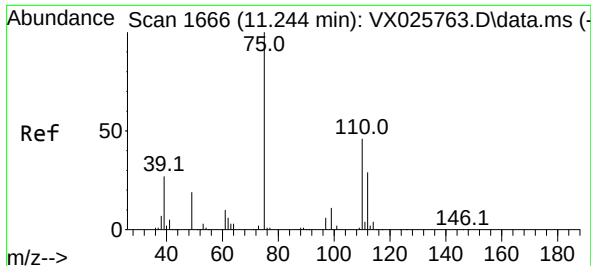
Tgt Ion:117 Resp: 208666  
Ion Ratio Lower Upper  
117 100  
82 56.3 43.8 65.6  
119 32.1 25.2 37.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VX025890.D  
Acq: 17 Dec 2021 17:04

Tgt Ion:152 Resp: 86845  
Ion Ratio Lower Upper  
152 100  
115 60.5 41.3 123.9  
150 154.5 0.0 351.8

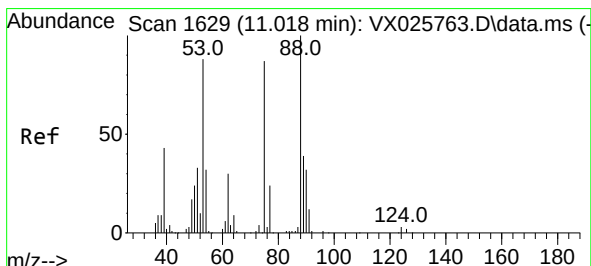
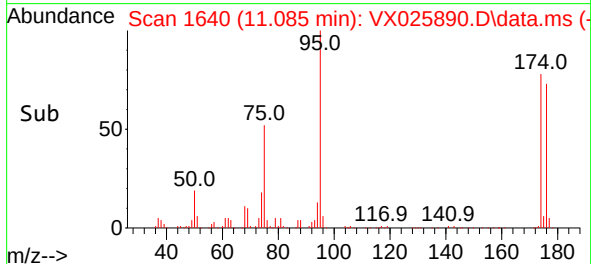
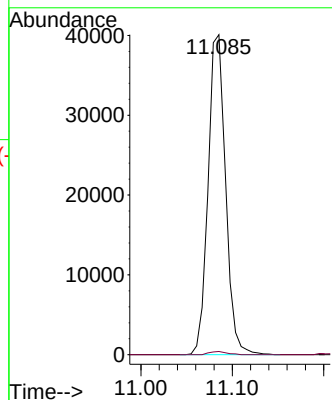
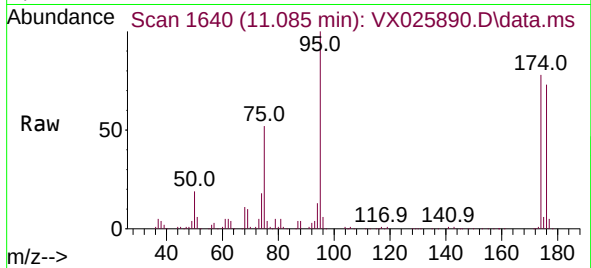




#76  
1,2,3-Trichloropropane  
Concen: 26.744 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX025890.D  
Acq: 17 Dec 2021 17:04

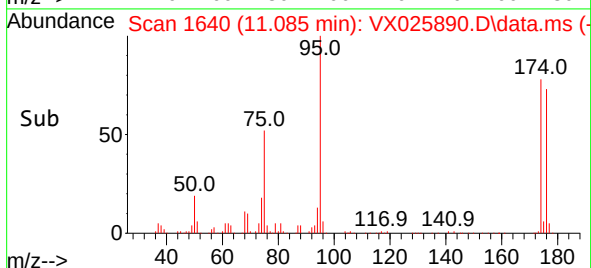
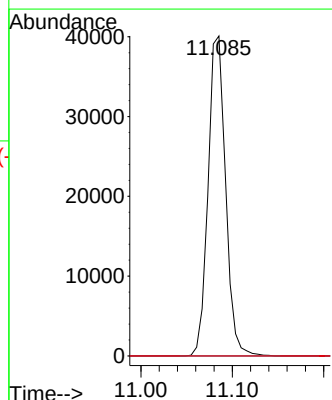
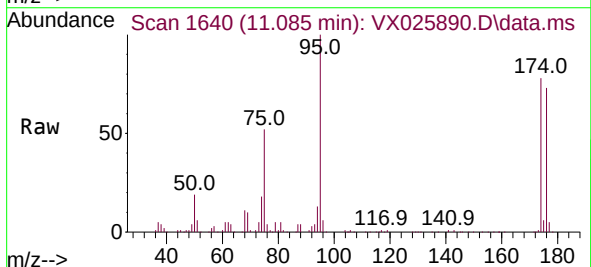
Instrument :  
MSVOA\_X  
ClientSampleId :

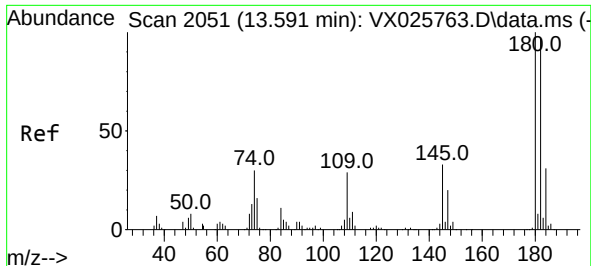
Tgt Ion: 75 Resp: 53214  
Ion Ratio Lower Upper  
75 100  
77 1.0 19.0 57.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 82.913 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.067 min  
Lab File: VX025890.D  
Acq: 17 Dec 2021 17:04

Tgt Ion: 75 Resp: 53214  
Ion Ratio Lower Upper  
75 100  
53 0.0 79.5 119.3#  
89 0.0 38.3 57.5#





#93

1,2,4-Trichlorobenzene

Concen: 3.492 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. -0.000 min

Lab File: VX025890.D

Acq: 17 Dec 2021 17:04

Instrument :

MSVOA\_X

ClientSampleId :

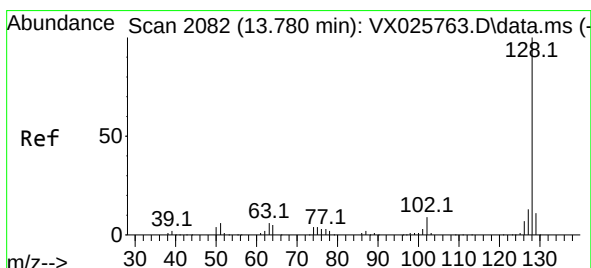
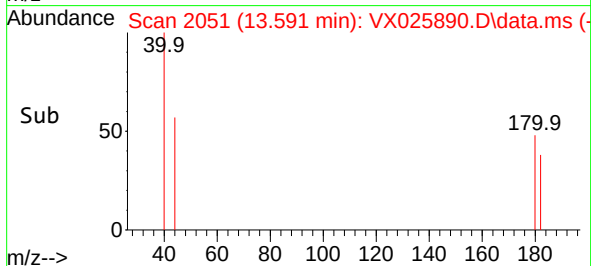
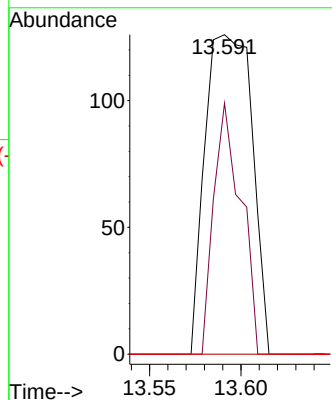
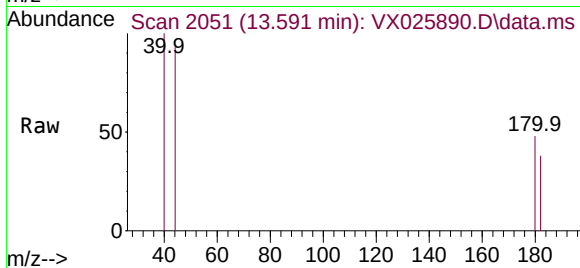
Tgt Ion:180 Resp: 226

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|     |     |  |  |
|-----|-----|--|--|
| 180 | 100 |  |  |
|-----|-----|--|--|

|     |      |      |        |
|-----|------|------|--------|
| 182 | 45.6 | 47.2 | 141.6# |
|-----|------|------|--------|

|     |     |      |       |
|-----|-----|------|-------|
| 145 | 0.0 | 16.3 | 48.9# |
|-----|-----|------|-------|



#95

Naphthalene

Concen: 2.458 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. -0.000 min

Lab File: VX025890.D

Acq: 17 Dec 2021 17:04

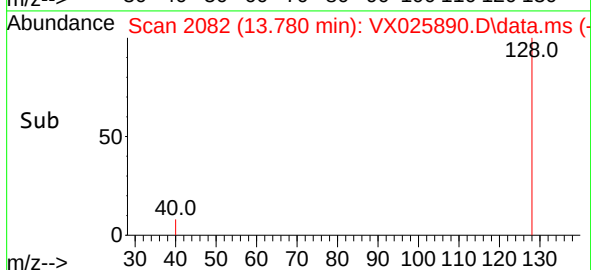
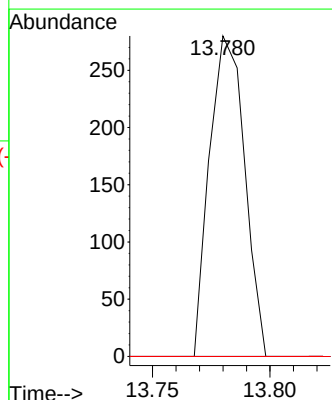
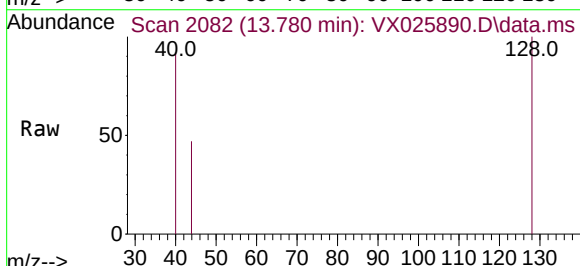
Tgt Ion:128 Resp: 291

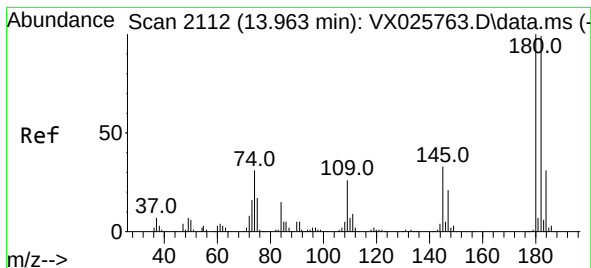
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|     |     |  |  |
|-----|-----|--|--|
| 128 | 100 |  |  |
|-----|-----|--|--|

|     |     |      |       |
|-----|-----|------|-------|
| 127 | 0.0 | 10.3 | 15.5# |
|-----|-----|------|-------|

|     |     |     |       |
|-----|-----|-----|-------|
| 129 | 0.0 | 8.8 | 13.2# |
|-----|-----|-----|-------|





#96

1,2,3-Trichlorobenzene

Concen: 3.085 ug/l

RT: 13.969 min Scan# 21

Delta R.T. 0.006 min

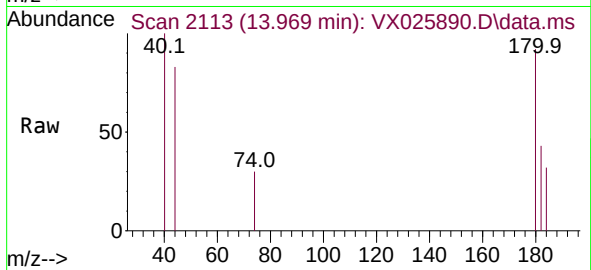
Lab File: VX025890.D

Acq: 17 Dec 2021 17:04

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion:180 Resp: 168

Ion Ratio Lower Upper

180 100

182 53.6 47.5 142.6

145 0.0 16.7 50.1#

