

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX020222\  
 Data File : VX026731.D  
 Acq On : 02 Feb 2022 12:46  
 Operator : JC/MD  
 Sample : N1202-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MANHOLE

Quant Time: Feb 03 03:02:59 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X011022W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Jan 10 12:50:55 2022  
 Response via : Initial Calibration

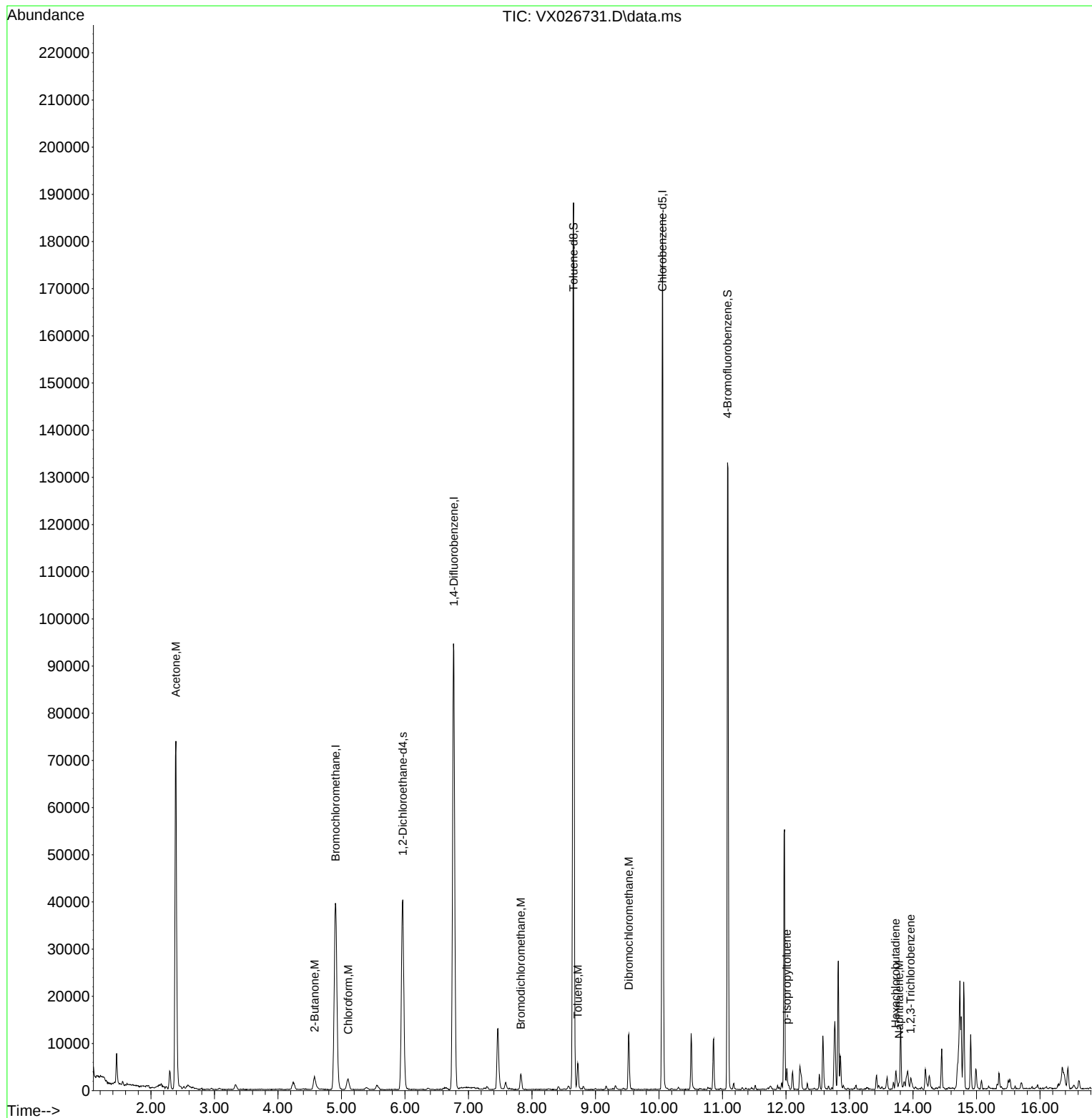
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 4.910  | 128   | 17378    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 6.769  | 114   | 96998    | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 10.055 | 117   | 82117    | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 5.964  | 65    | 39117    | 27.993   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 93.300%  |
| 60) 4-Bromofluorobenzene    | 11.079 | 95    | 37634    | 27.461   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 91.533%  |
| 63) Toluene-d8              | 8.653  | 98    | 111333   | 29.513   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 98.367%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 15) Acetone                 | 2.392  | 58    | 26215    | 152.886  | ug/l   | 86       |
| 25) Chloroform              | 5.105  | 83    | 2814     | 1.412    | ug/l   | 94       |
| 30) 2-Butanone              | 4.574  | 43    | 5194     | 5.970    | ug/l # | 84       |
| 41) Bromodichloromethane    | 7.824  | 83    | 2226     | 1.445    | ug/l   | 99       |
| 53) Dibromochloromethane    | 9.525  | 129   | 1553     | 1.393    | ug/l   | 97       |
| 62) Toluene                 | 8.720  | 91    | 3671     | 0.837    | ug/l   | 97       |
| 82) p-Isopropyltoluene      | 12.012 | 119   | 2086     | 0.514    | ug/l   | 94       |
| 90) Hexachlorobutadiene     | 13.725 | 225   | 293      | 0.528    | ug/l   | 77       |
| 91) Naphthalene             | 13.780 | 128   | 1062     | 0.242    | ug/l # | 83       |
| 92) 1,2,3-Trichlorobenzene  | 13.963 | 180   | 265      | 0.210    | ug/l   | 91       |
| -----                       |        |       |          |          |        |          |

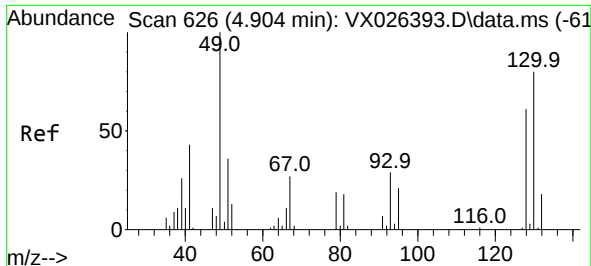
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_X  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X011022W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Mon Jan 10 12:50:55 2022  
Response via : Initial Calibration

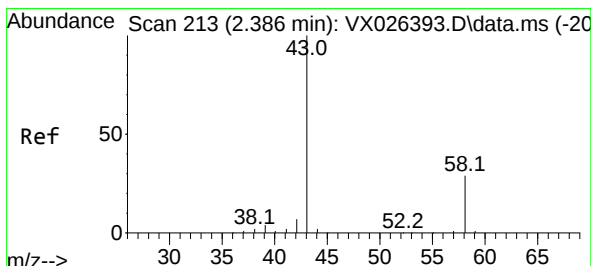
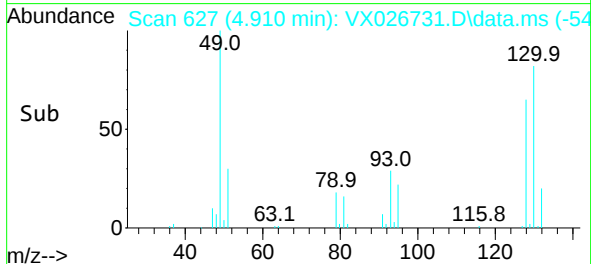
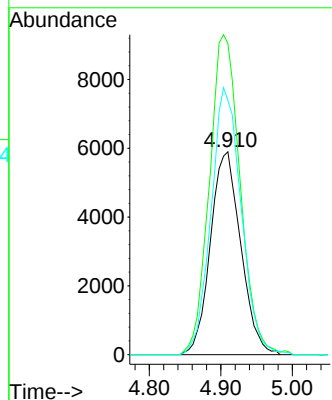
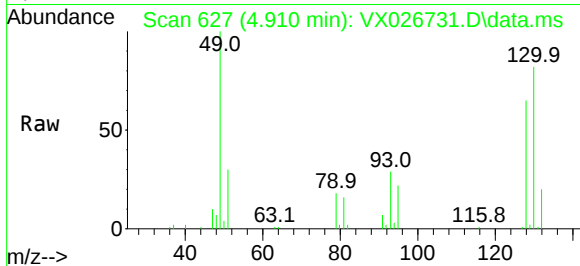




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.910 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VX026731.D  
Acq: 02 Feb 2022 12:46

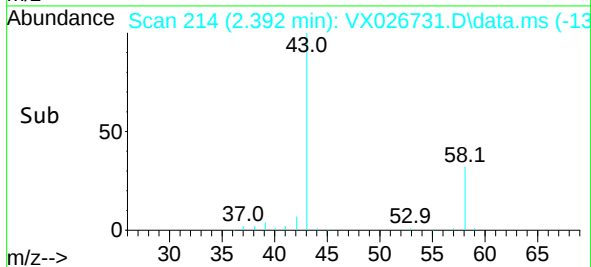
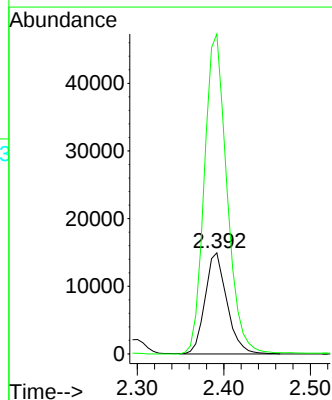
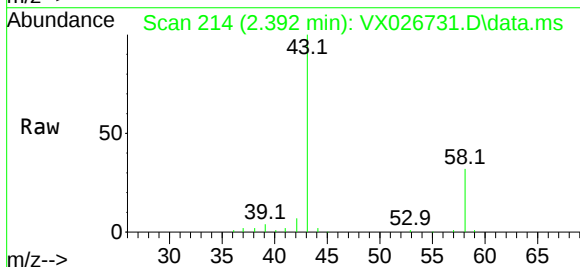
Instrument :  
MSVOA\_X  
ClientSampleId :  
MANHOLE

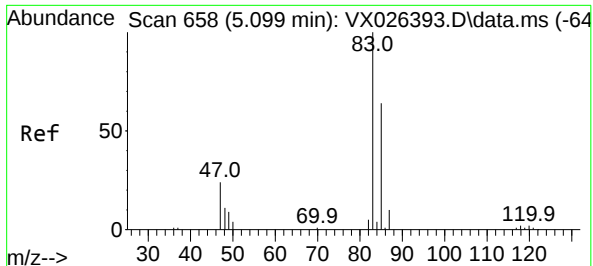
Tgt Ion:128 Resp: 17378  
Ion Ratio Lower Upper  
128 100  
49 159.4 0.0 413.5  
130 131.1 0.0 326.0



#15  
Acetone  
Concen: 152.886 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. 0.006 min  
Lab File: VX026731.D  
Acq: 02 Feb 2022 12:46

Tgt Ion: 58 Resp: 26215  
Ion Ratio Lower Upper  
58 100  
43 316.2 276.3 414.5





#25

Chloroform

Concen: 1.412 ug/l

RT: 5.105 min Scan# 6

Delta R.T. 0.006 min

Lab File: VX026731.D

Acq: 02 Feb 2022 12:46

Instrument :

MSVOA\_X

ClientSampleId :

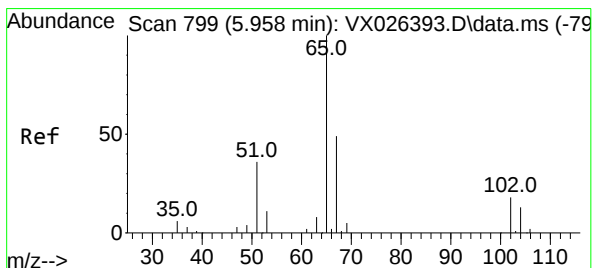
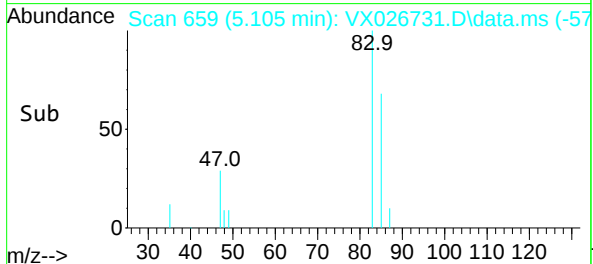
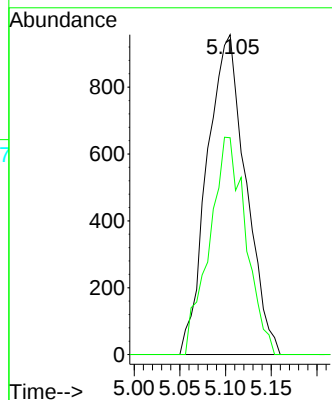
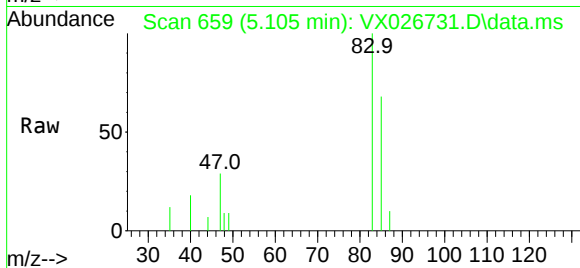
MANHOLE

Tgt Ion: 83 Resp: 2814

Ion Ratio Lower Upper

83 100

85 67.8 50.8 76.2



#27

1,2-Dichloroethane-d4

Concen: 27.993 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.006 min

Lab File: VX026731.D

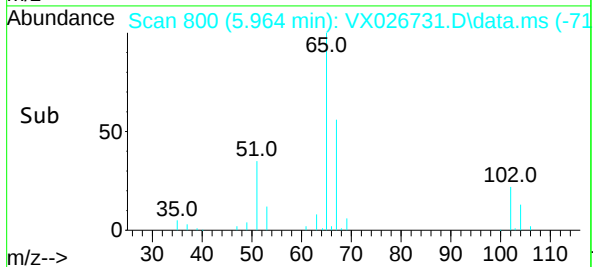
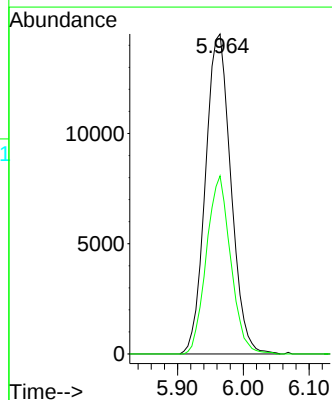
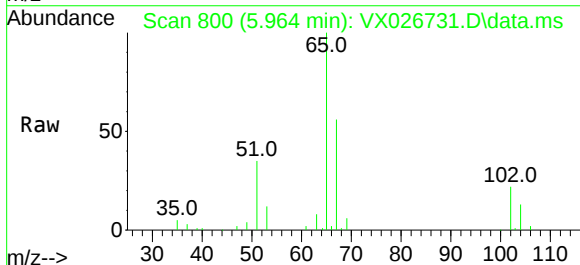
Acq: 02 Feb 2022 12:46

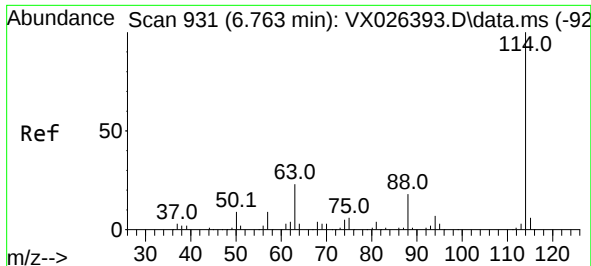
Tgt Ion: 65 Resp: 39117

Ion Ratio Lower Upper

65 100

67 53.0 39.6 59.4





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. 0.006 min

Lab File: VX026731.D

Acq: 02 Feb 2022 12:46

Instrument :

MSVOA\_X

ClientSampleId :

MANHOLE

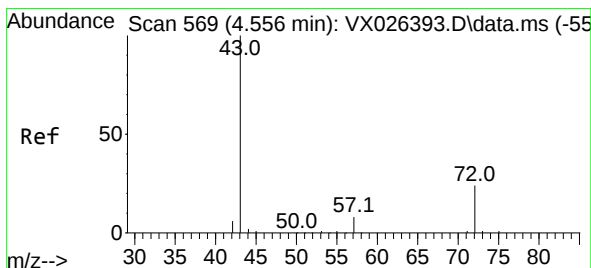
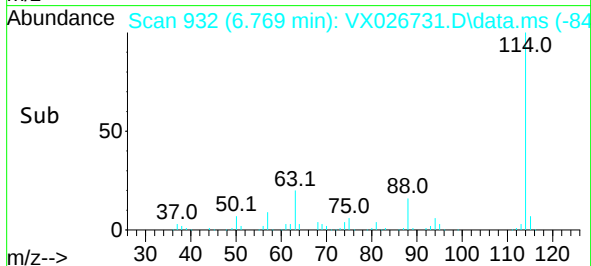
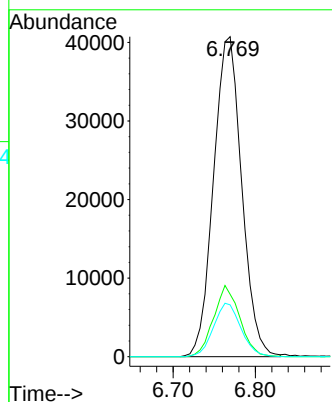
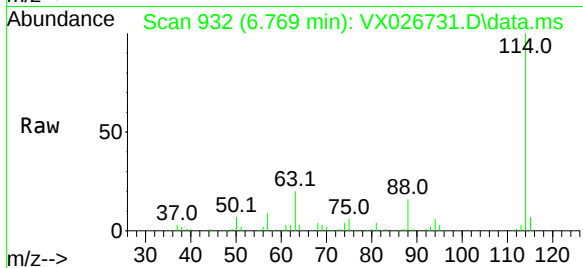
Tgt Ion:114 Resp: 96998

Ion Ratio Lower Upper

114 100

63 20.7 17.4 26.2

88 16.3 13.5 20.3



#30

2-Butanone

Concen: 5.970 ug/l

RT: 4.574 min Scan# 572

Delta R.T. 0.018 min

Lab File: VX026731.D

Acq: 02 Feb 2022 12:46

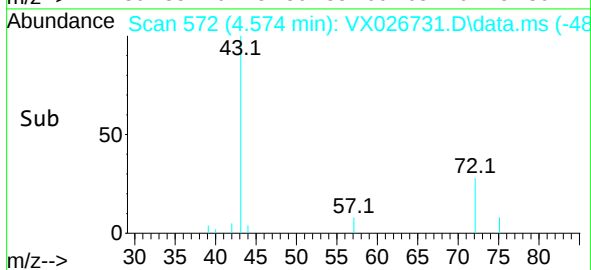
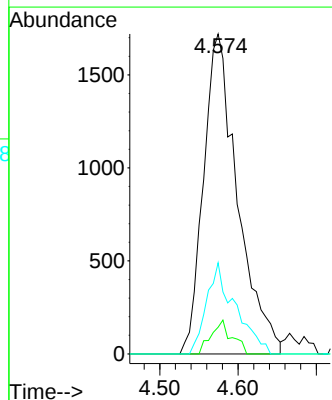
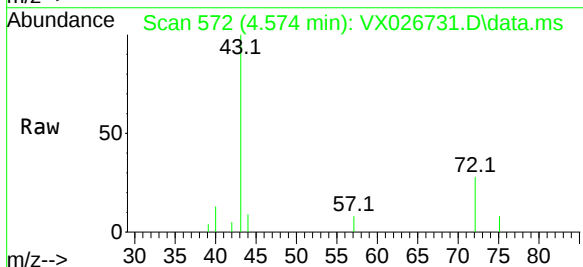
Tgt Ion: 43 Resp: 5194

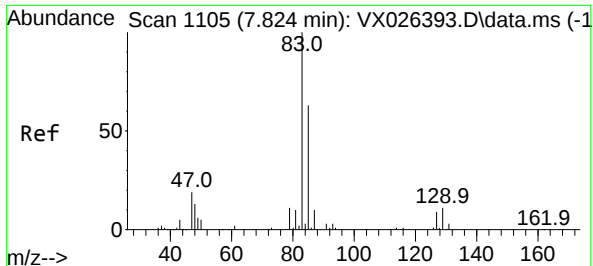
Ion Ratio Lower Upper

43 100

57 4.7 6.3 9.5#

72 15.5 19.8 29.6#

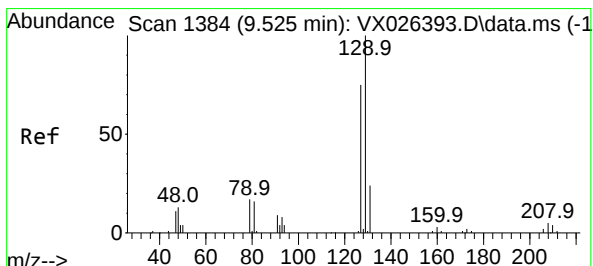
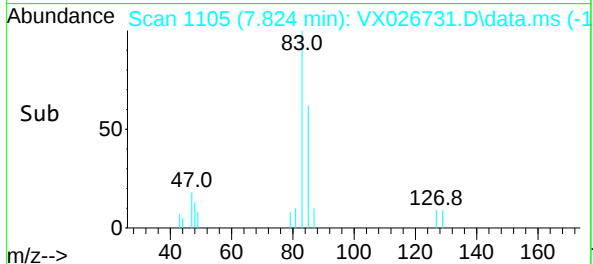
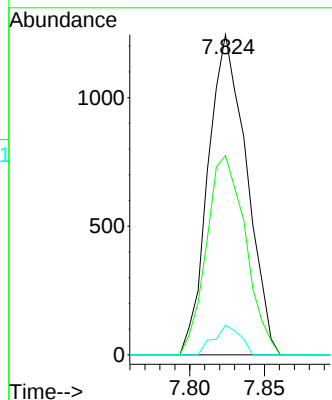
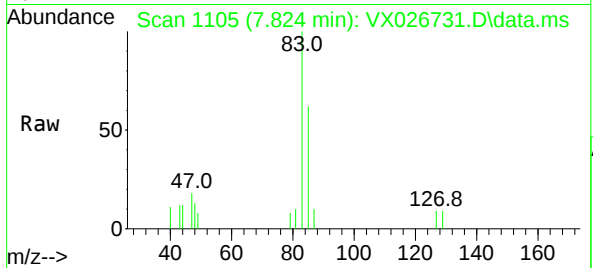




#41  
Bromodichloromethane  
Concen: 1.445 ug/l  
RT: 7.824 min Scan# 1105  
Delta R.T. 0.000 min  
Lab File: VX026731.D  
Acq: 02 Feb 2022 12:46

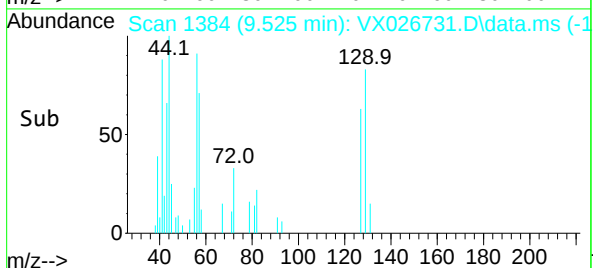
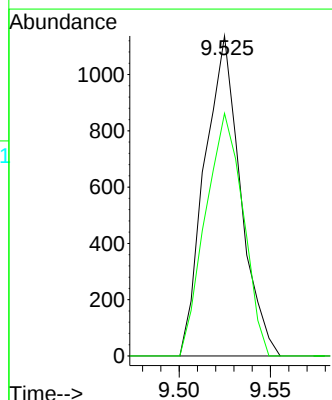
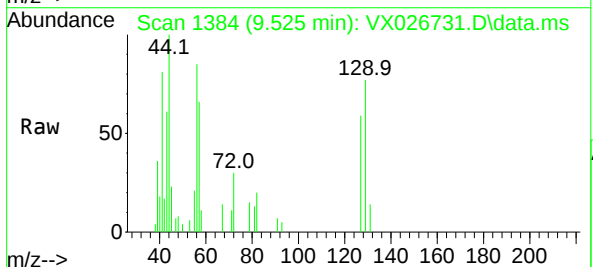
Instrument :  
MSVOA\_X  
ClientSampleId :  
MANHOLE

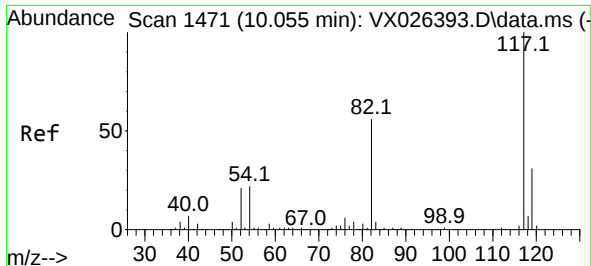
Tgt Ion: 83 Resp: 2226  
Ion Ratio Lower Upper  
83 100  
85 62.2 50.6 76.0  
127 9.2 7.0 10.6



#53  
Dibromochloromethane  
Concen: 1.393 ug/l  
RT: 9.525 min Scan# 1384  
Delta R.T. 0.000 min  
Lab File: VX026731.D  
Acq: 02 Feb 2022 12:46

Tgt Ion: 129 Resp: 1553  
Ion Ratio Lower Upper  
129 100  
127 79.6 38.3 114.9





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX026731.D

Acq: 02 Feb 2022 12:46

Instrument :

MSVOA\_X

ClientSampleId :

MANHOLE

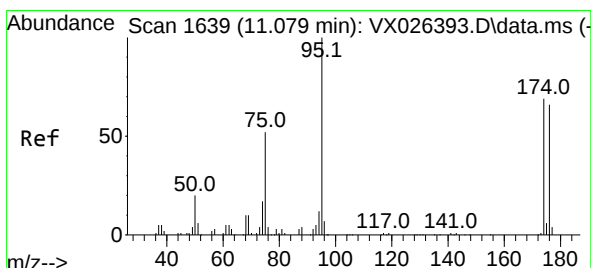
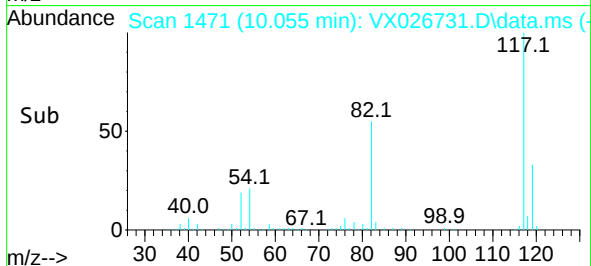
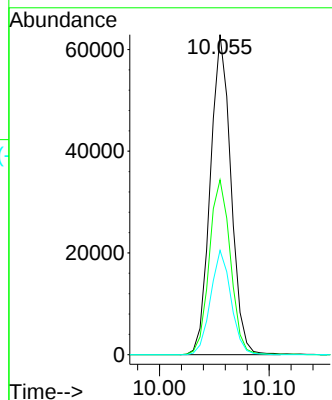
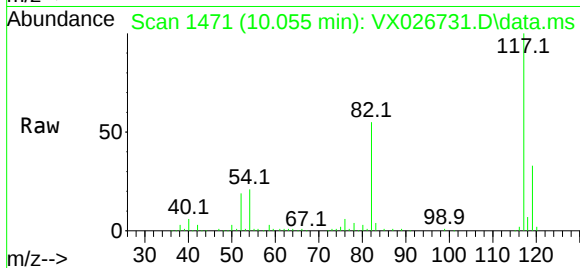
Tgt Ion:117 Resp: 82117

Ion Ratio Lower Upper

117 100

82 56.2 46.2 69.4

119 32.4 25.4 38.2



#60

4-Bromofluorobenzene

Concen: 27.461 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX026731.D

Acq: 02 Feb 2022 12:46

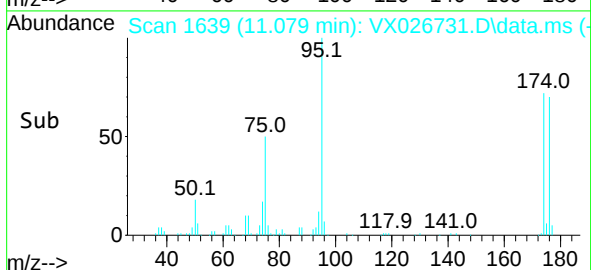
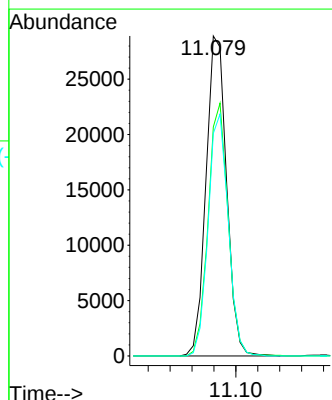
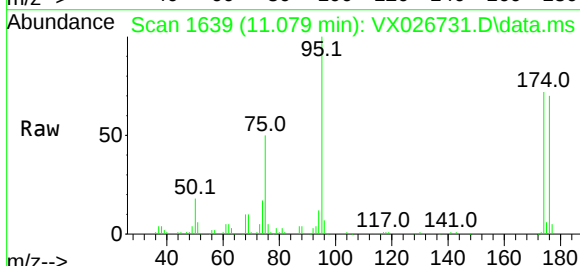
Tgt Ion: 95 Resp: 37634

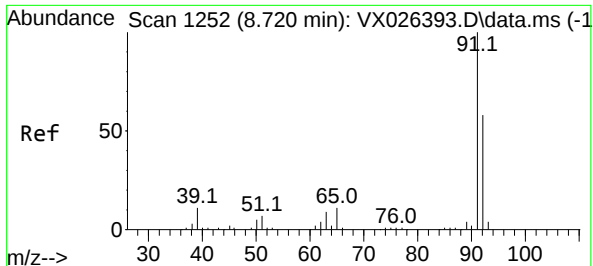
Ion Ratio Lower Upper

95 100

174 76.5 58.0 87.0

176 73.8 56.5 84.7





#62

Toluene

Concen: 0.837 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.000 min

Lab File: VX026731.D

Acq: 02 Feb 2022 12:46

Instrument :

MSVOA\_X

ClientSampleId :

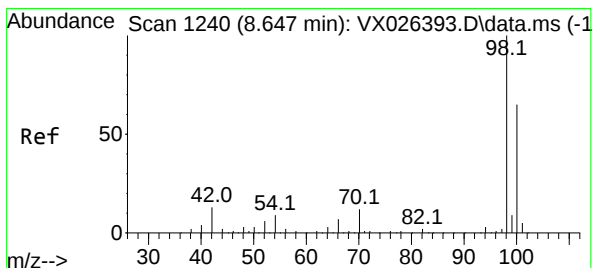
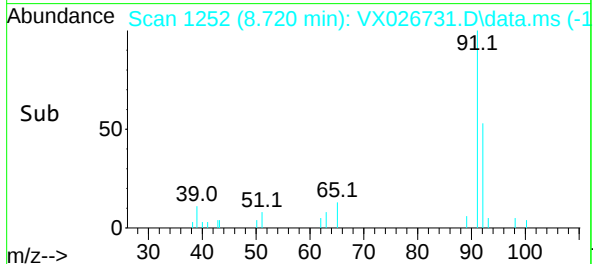
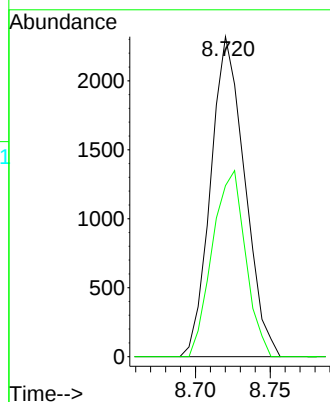
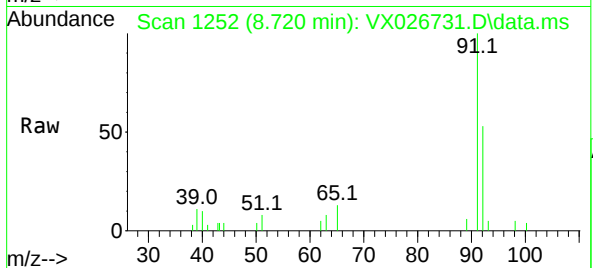
MANHOLE

Tgt Ion: 91 Resp: 3671

Ion Ratio Lower Upper

91 100

92 56.5 47.2 70.8



#63

Toluene-d8

Concen: 29.513 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.006 min

Lab File: VX026731.D

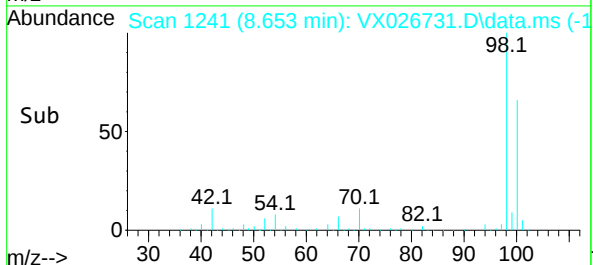
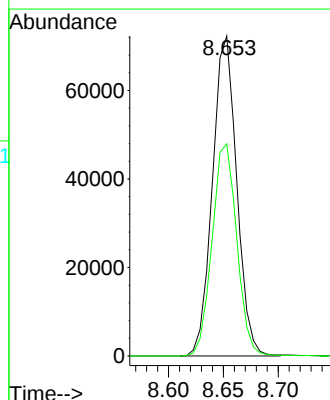
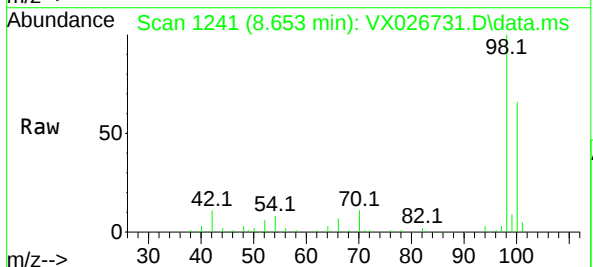
Acq: 02 Feb 2022 12:46

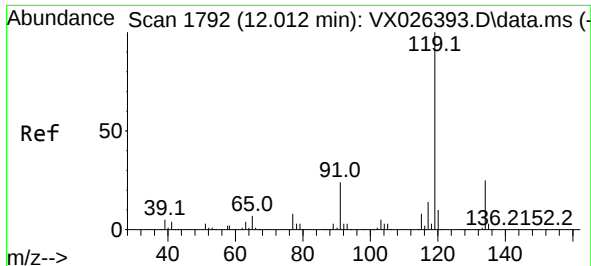
Tgt Ion: 98 Resp: 111333

Ion Ratio Lower Upper

98 100

100 67.5 52.5 78.7

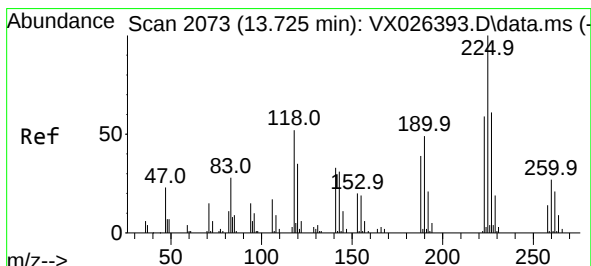
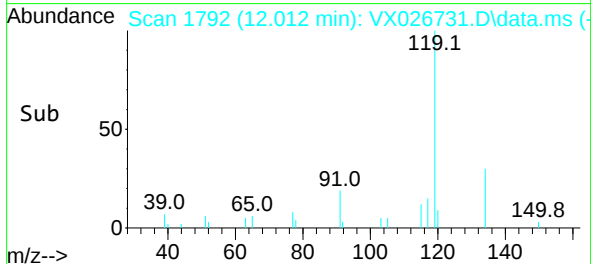
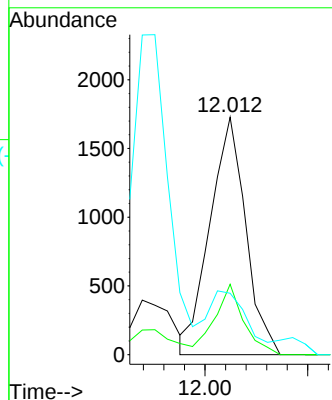
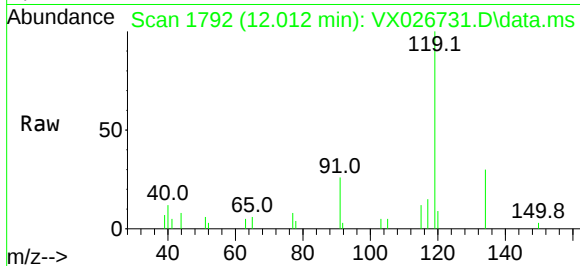




#82  
p-Isopropyltoluene  
Concen: 0.514 ug/l  
RT: 12.012 min Scan# 119  
Delta R.T. 0.000 min  
Lab File: VX026731.D  
Acq: 02 Feb 2022 12:46

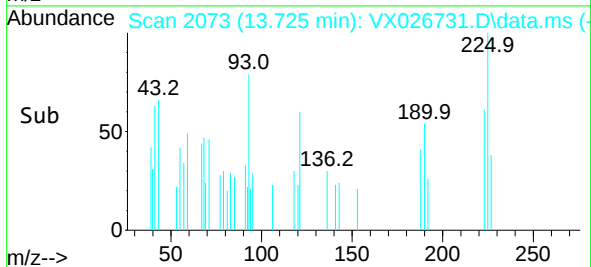
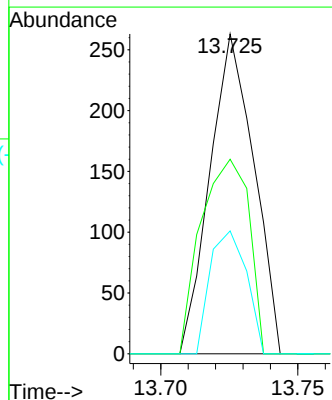
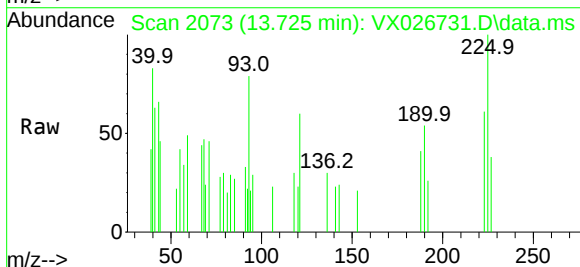
Instrument :  
MSVOA\_X  
ClientSampleId :  
MANHOLE

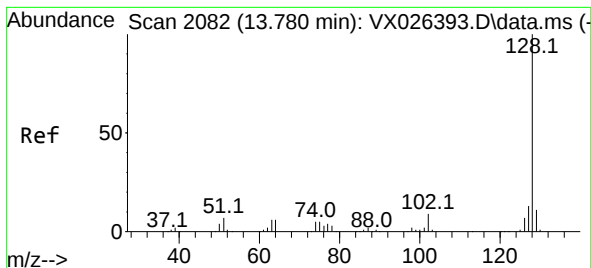
Tgt Ion:119 Resp: 2086  
Ion Ratio Lower Upper  
119 100  
134 24.1 0.0 50.8  
91 30.2 0.0 50.2



#90  
Hexachlorobutadiene  
Concen: 0.528 ug/l  
RT: 13.725 min Scan# 2073  
Delta R.T. 0.000 min  
Lab File: VX026731.D  
Acq: 02 Feb 2022 12:46

Tgt Ion:225 Resp: 293  
Ion Ratio Lower Upper  
225 100  
223 66.6 0.0 121.6  
227 31.7 0.0 122.8





#91

Naphthalene

Concen: 0.242 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.000 min

Lab File: VX026731.D

Acq: 02 Feb 2022 12:46

Instrument :

MSVOA\_X

ClientSampleId :

MANHOLE

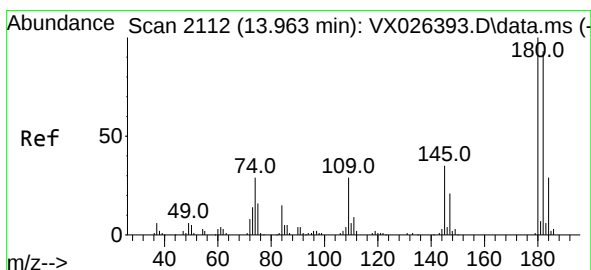
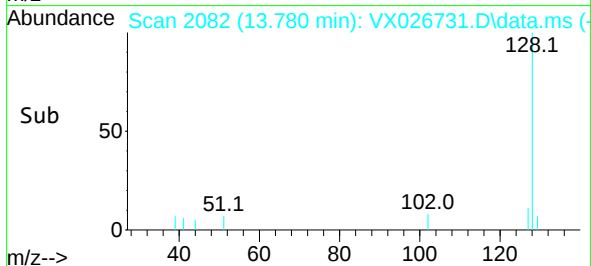
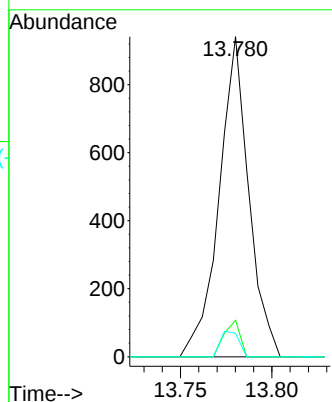
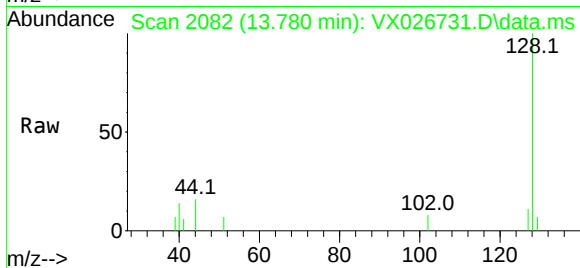
Tgt Ion:128 Resp: 1062

Ion Ratio Lower Upper

128 100

127 6.1 10.6 15.8#

129 5.0 8.8 13.2#



#92

1,2,3-Trichlorobenzene

Concen: 0.210 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. 0.000 min

Lab File: VX026731.D

Acq: 02 Feb 2022 12:46

Tgt Ion:180 Resp: 265

Ion Ratio Lower Upper

180 100

182 104.9 0.0 187.4

145 36.6 0.0 70.2

