

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX030218\  
 Data File : VX000202.D  
 Acq On : 02 Mar 2018 19:50  
 Operator : JC/MD  
 Sample : J1699-68 5X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Mar 03 04:44:22 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X021418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 15 12:46:41 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.68  | 168  | 83601    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 136899   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 128066   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 63542    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.08  | 65   | 54012    | 51.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.48% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 41319    | 47.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.64%  |          |
| 50) Toluene-d8              | 8.73  | 98   | 166300   | 48.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.58%  |          |
| 62) 4-Bromofluorobenzene    | 11.15 | 95   | 58977    | 44.13 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.26%  |          |

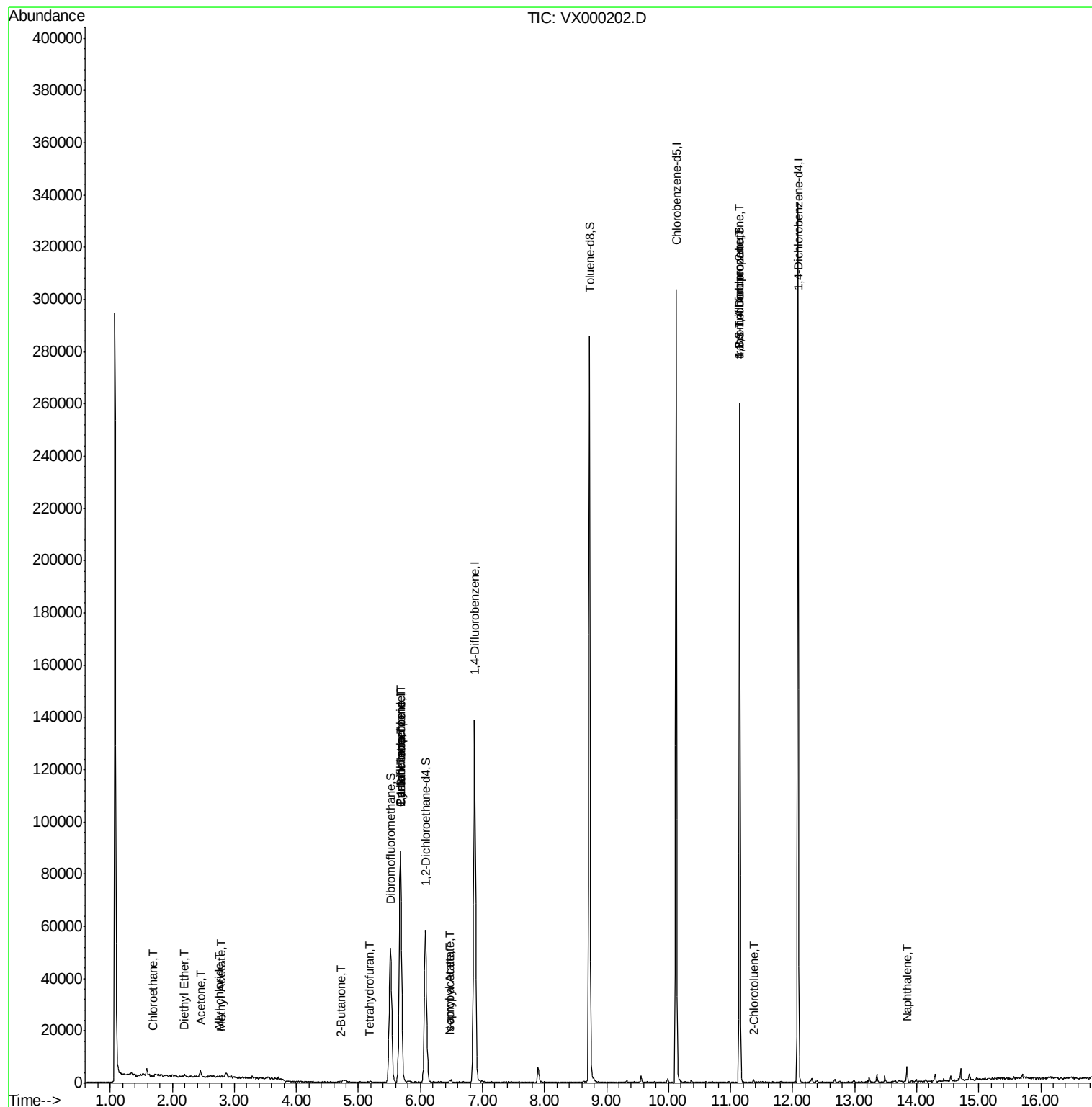
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.65  | 94   | 58       | Below Cal | #      | 70     |
| 6) Chloroethane                | 1.70  | 64   | 183      | 0.29      | ug/l # | 42     |
| 8) Diethyl Ether               | 2.20  | 74   | 150      | 0.26      | ug/l # | 1      |
| 14) Allyl chloride             | 2.75  | 41   | 304      | 0.21      | ug/l # | 23     |
| 16) Acetone                    | 2.45  | 43   | 2772     | 4.09      | ug/l   | 98     |
| 18) Methyl Acetate             | 2.78  | 43   | 323      | 0.20      | ug/l # | 50     |
| 20) Methylene Chloride         | 2.87  | 84   | 745      | Below Cal | #      | 61     |
| 25) 2-Butanone                 | 4.71  | 43   | 248      | 0.26      | ug/l # | 48     |
| 29) Tetrahydrofuran            | 5.18  | 42   | 195      | 0.32      | ug/l # | 30     |
| 31) Cyclohexane                | 5.68  | 56   | 2305     | 1.77      | ug/l # | 16     |
| 36) 1,1-Dichloropropene        | 5.68  | 75   | 7115     | 5.79      | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 5.68  | 117  | 8746     | 6.59      | ug/l # | 16     |
| 41) Methacrylonitrile          | 5.01  | 41   | 30       | Below Cal | #      | 1      |
| 43) Isopropyl Acetate          | 6.47  | 43   | 686      | 0.28      | ug/l # | 80     |
| 74) N-amyl acetate             | 6.47  | 43   | 686      | 0.34      | ug/l # | 91     |
| 76) 1,2,3-Trichloropropane     | 11.15 | 75   | 33327    | 25.32     | ug/l # | 32     |
| 79) 2-Chlorotoluene            | 11.37 | 91   | 762      | 0.28      | ug/l # | 38     |
| 81) trans-1,4-Dichloro-2-buten | 11.15 | 75   | 33327    | 72.11     | ug/l # | 12     |
| 95) Naphthalene                | 13.84 | 128  | 3516     | 0.67      | ug/l # | 92     |

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

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Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Mar 03 04:44:22 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X021418W.M  
Quant Title : SW846 8260  
QLast Update : Thu Feb 15 12:46:41 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.00 min

Lab File: VX000202.D

Acq: 02 Mar 2018 19:50

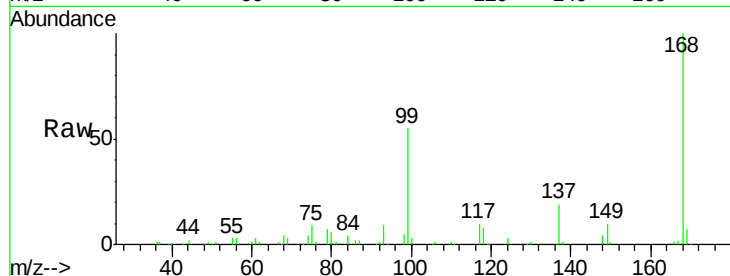
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:168 Resp: 83601

Ion Ratio Lower Upper

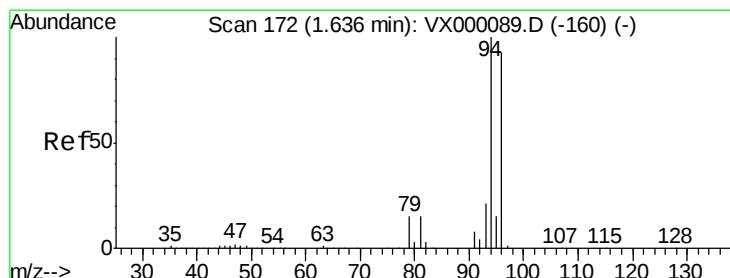
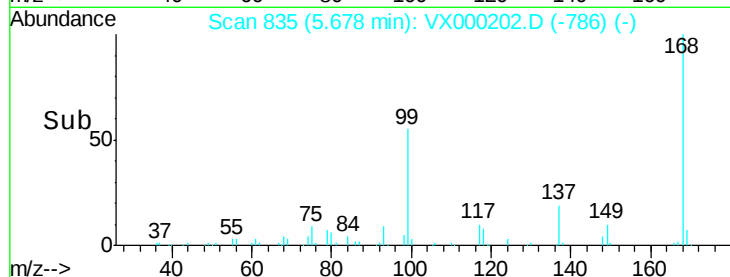
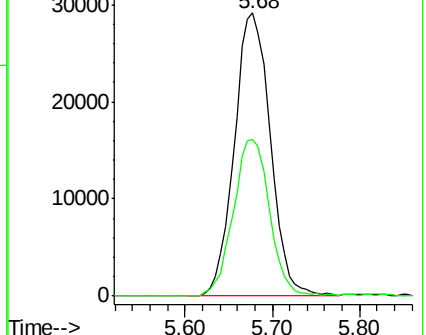
168 100

99 55.2 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX000202.D

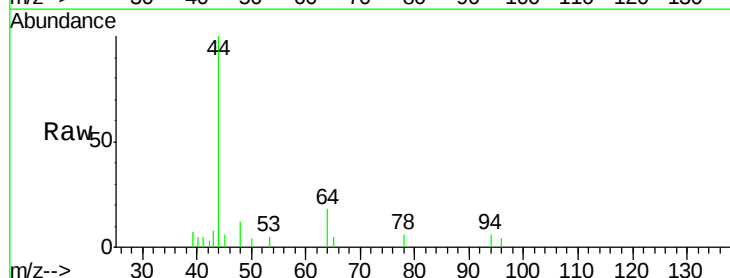
Acq: 02 Mar 2018 19:50

Tgt Ion: 94 Resp: 58

Ion Ratio Lower Upper

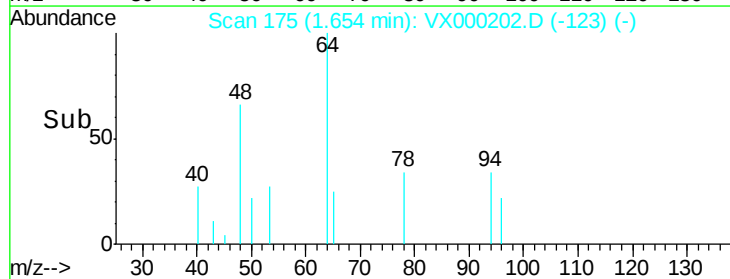
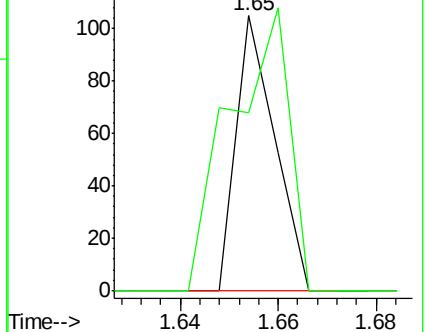
94 100

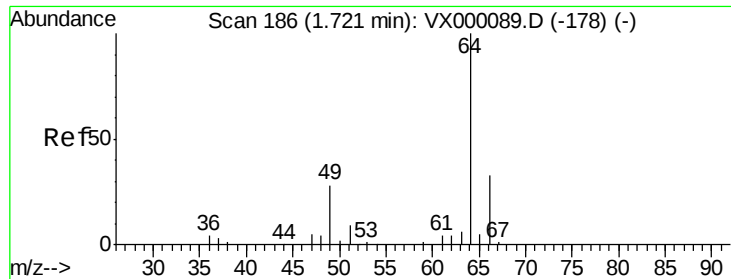
96 64.8 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.29 ug/l

RT: 1.70 min Scan# 182

Delta R.T. -0.02 min

Lab File: VX000202.D

Acq: 02 Mar 2018 19:50

Instrument :

MSVOA\_X

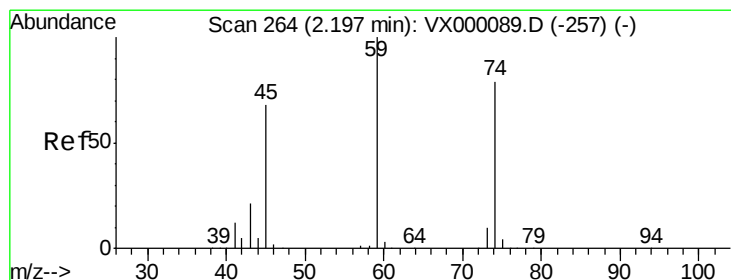
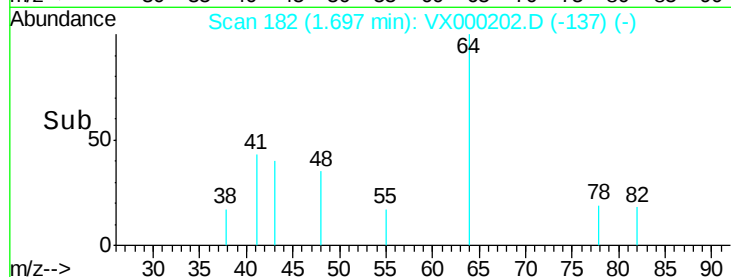
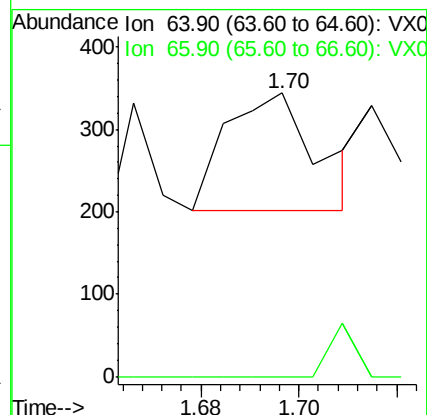
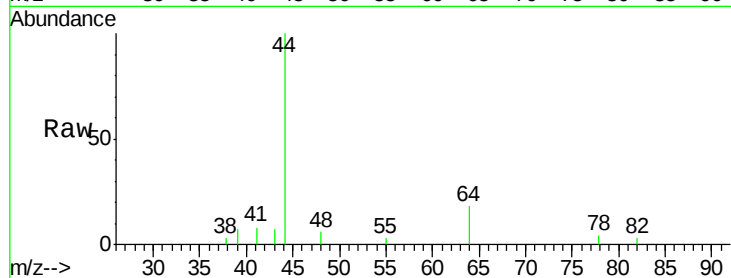
ClientSampleId :

Tot Ion: 64 Resp: 183

Ion Ratio Lower Upper

64 100

66 0.0 26.0 39.0#



#8

Diethyl Ether

Concen: 0.26 ug/l

RT: 2.20 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX000202.D

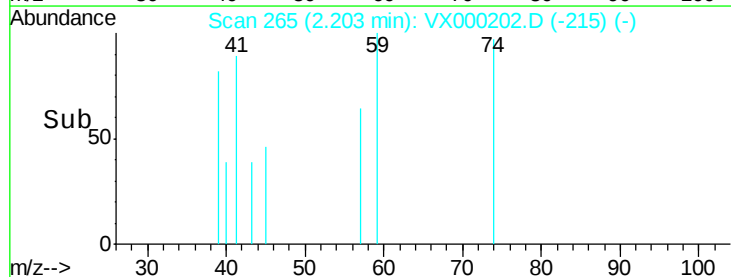
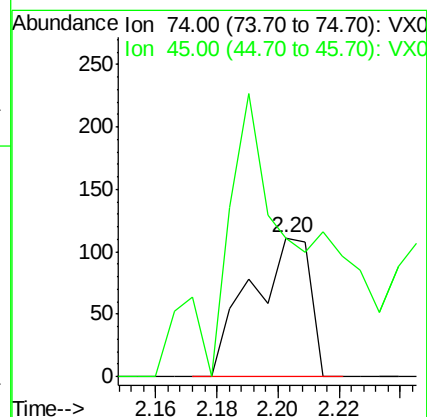
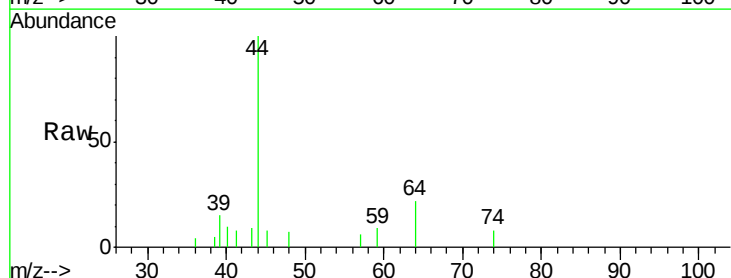
Acq: 02 Mar 2018 19:50

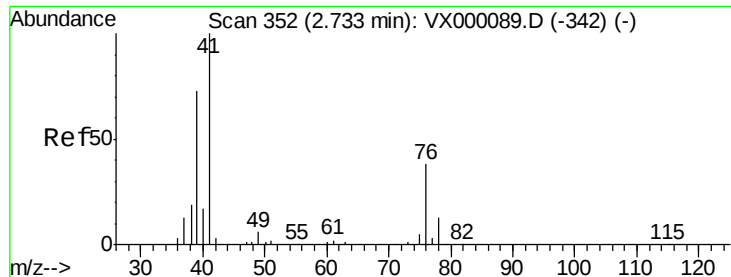
Tgt Ion: 74 Resp: 150

Ion Ratio Lower Upper

74 100

45 285.3 44.7 134.1#





#14

Allvl chloride

Concen: 0.21 ug/l

RT: 2.75 min Scan# 354

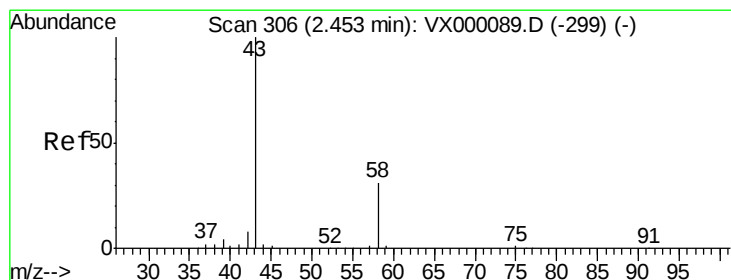
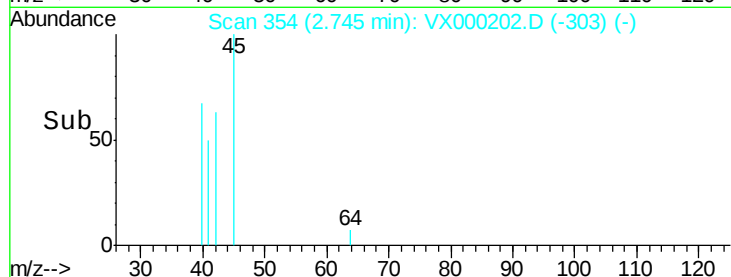
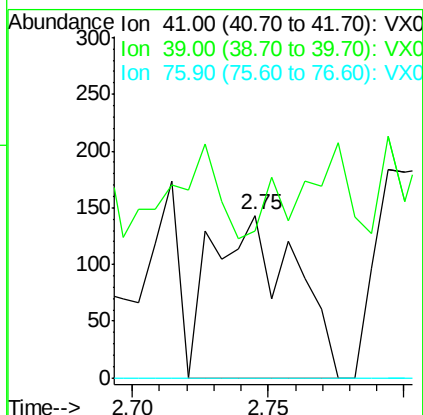
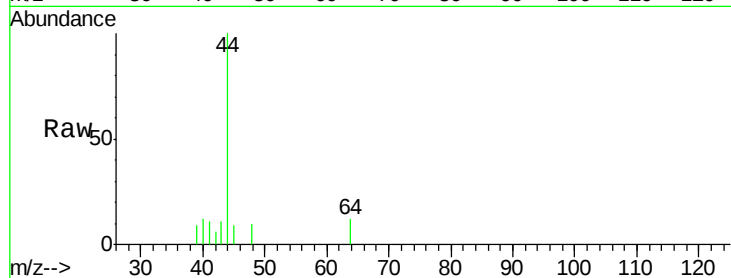
Delta R.T. 0.01 min

Lab File: VX000202.D

Acq: 02 Mar 2018 19:50

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 41 Resp: 304  
Ion Ratio Lower Upper  
41 100  
39 0.0 55.1 82.7#  
76 0.0 28.5 42.7#



#16

Acetone

Concen: 4.09 ug/l

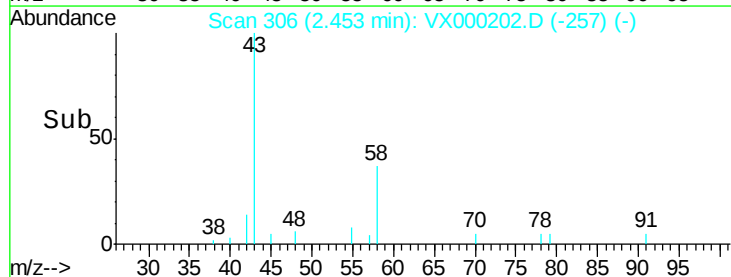
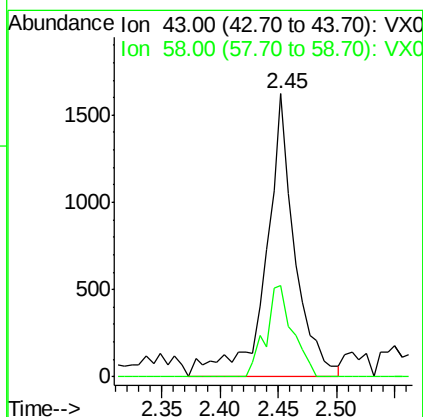
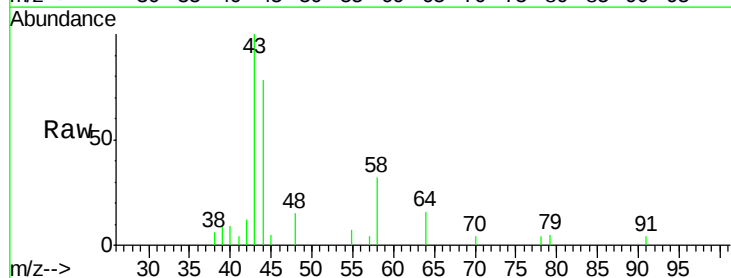
RT: 2.45 min Scan# 306

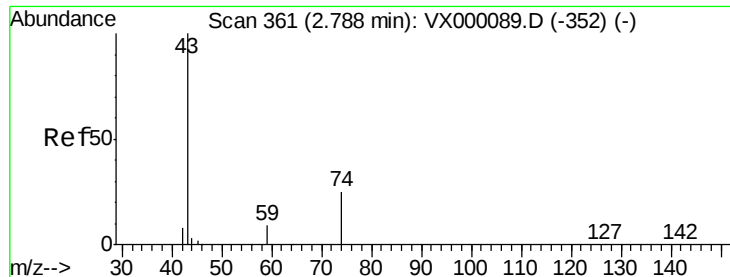
Delta R.T. -0.00 min

Lab File: VX000202.D

Acq: 02 Mar 2018 19:50

Tgt Ion: 43 Resp: 2772  
Ion Ratio Lower Upper  
43 100  
58 32.4 25.0 37.4

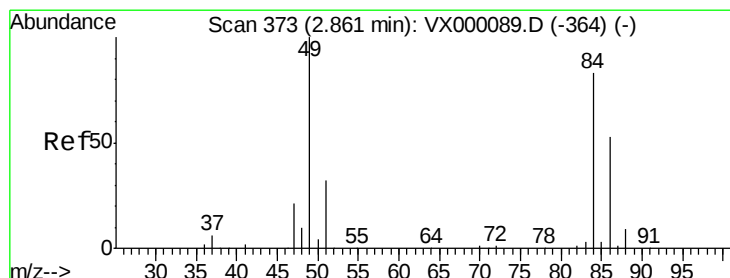
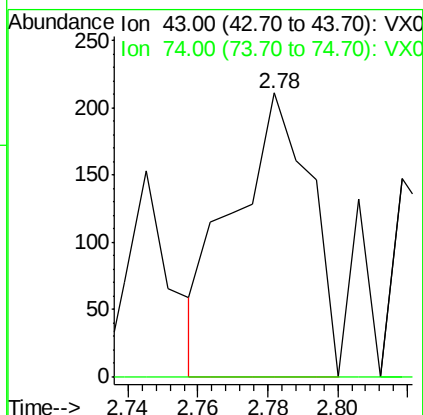
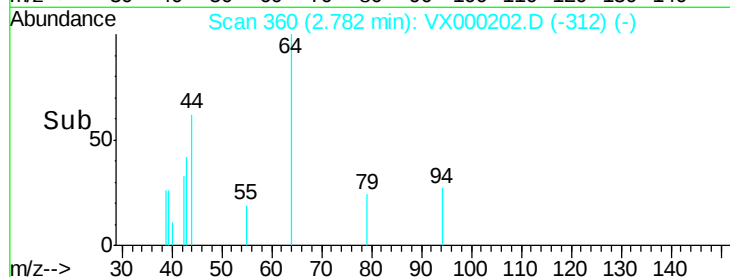
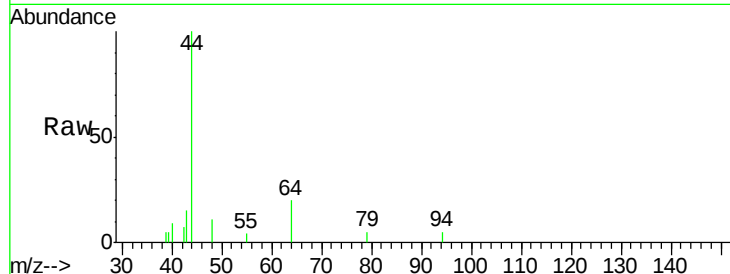




#18  
Methyl Acetate  
Concen: 0.20 ug/l  
RT: 2.78 min Scan# 360  
Delta R.T. -0.01 min  
Lab File: VX000202.D  
Acq: 02 Mar 2018 19:50

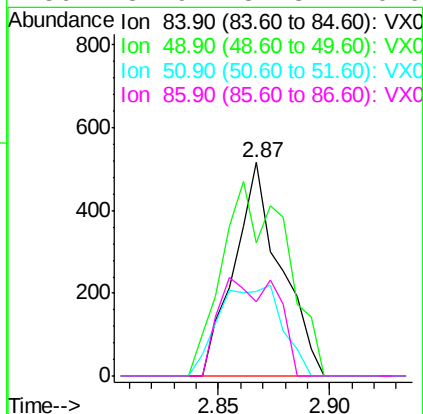
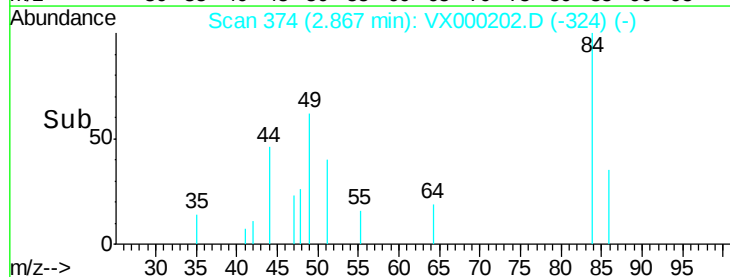
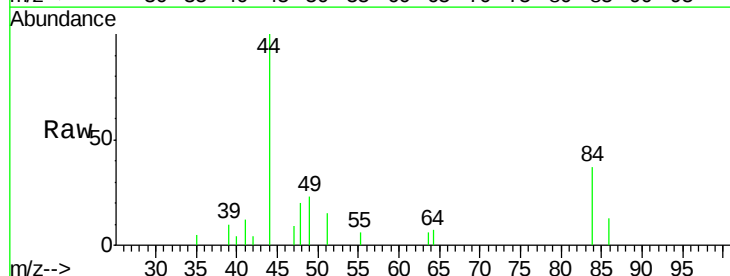
Instrument :  
MSVOA\_X  
ClientSampled :

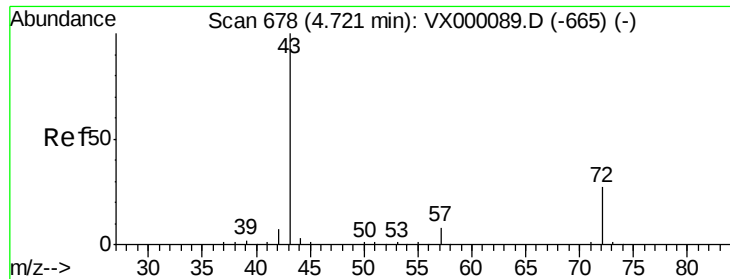
Tot Ion: 43 Resp: 323  
Ion Ratio Lower Upper  
43 100  
74 0.0 20.2 30.4#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.87 min Scan# 374  
Delta R.T. 0.01 min  
Lab File: VX000202.D  
Acq: 02 Mar 2018 19:50

Tgt Ion: 84 Resp: 745  
Ion Ratio Lower Upper  
84 100  
49 62.4 96.1 144.1#  
51 39.5 30.5 45.7  
86 34.9 51.3 76.9#





#25

2-Butanone

Concen: 0.26 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.01 min

Lab File: VX000202.D

Acq: 02 Mar 2018 19:50

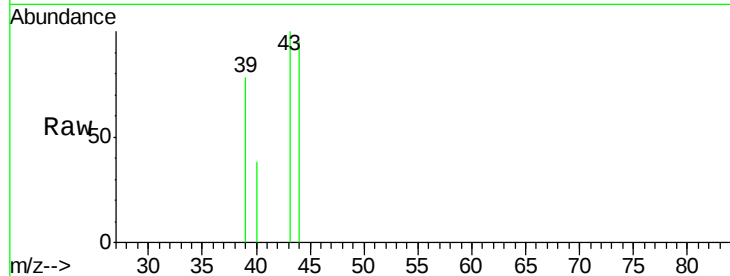
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 43 Resp: 248

Ion Ratio Lower Upper

43 100

72 0.0 21.3 31.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.71

200

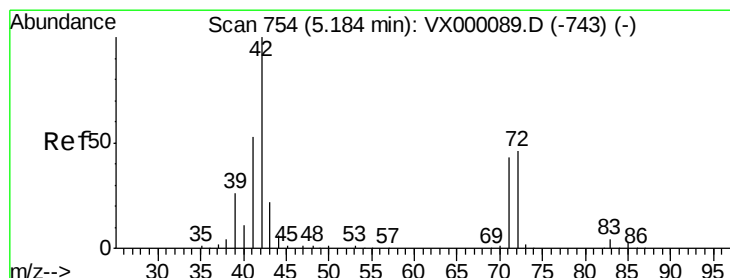
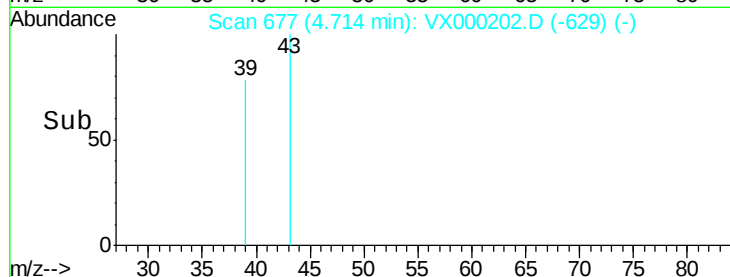
150

100

50

0

Time-->



#29

Tetrahydrofuran

Concen: 0.32 ug/l

RT: 5.18 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX000202.D

Acq: 02 Mar 2018 19:50

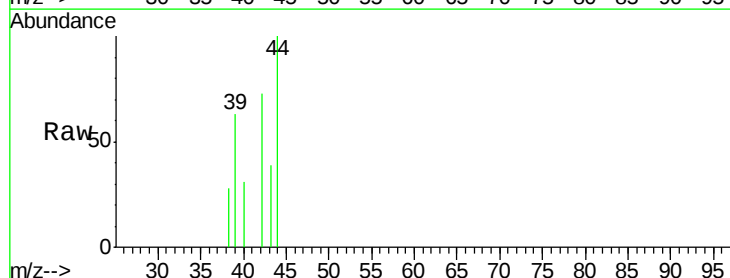
Tgt Ion: 42 Resp: 195

Ion Ratio Lower Upper

42 100

72 0.0 38.6 58.0#

71 0.0 36.2 54.4#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

250

200

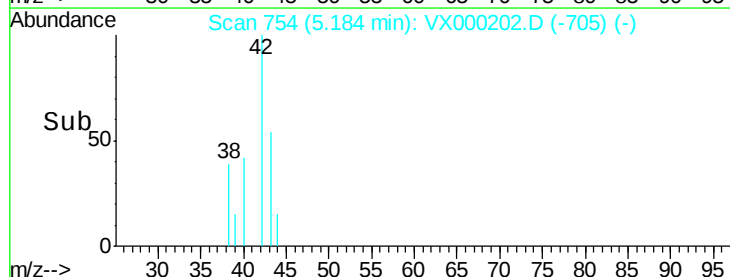
150

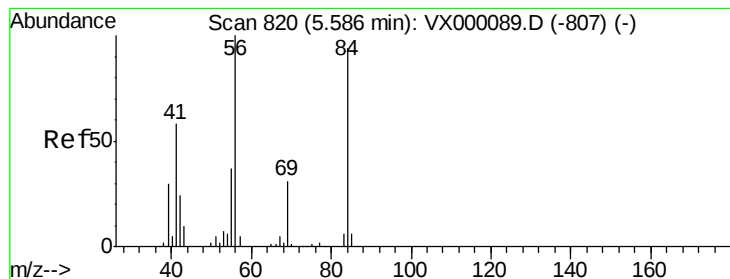
100

50

0

Time-->





#31

Cyclohexane

Concen: 1.77 ug/l

RT: 5.68 min Scan# 835

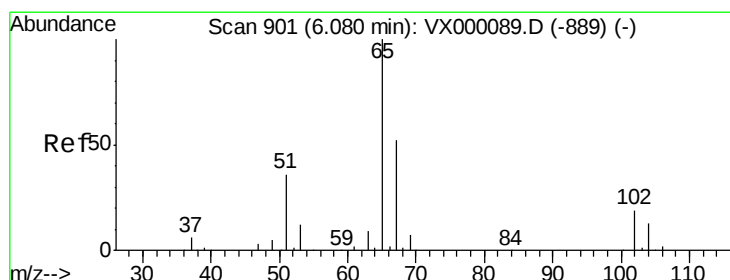
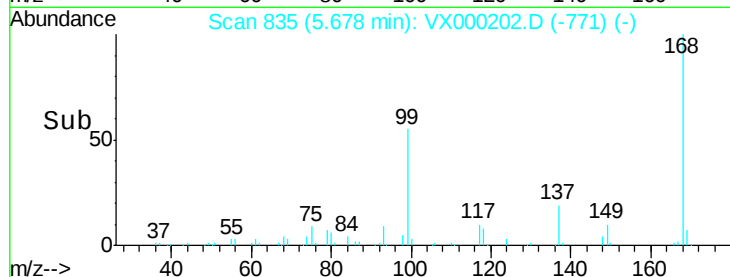
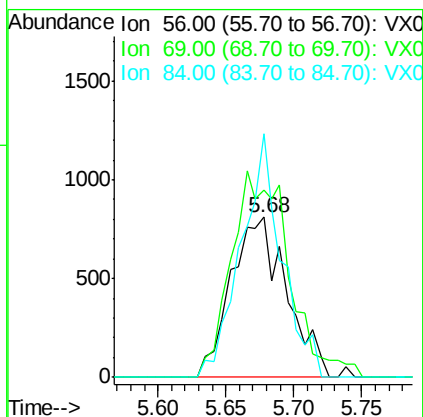
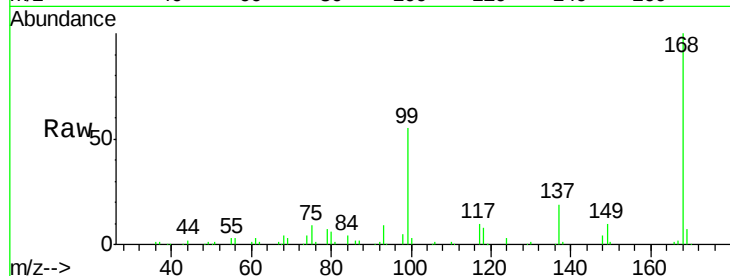
Delta R.T. 0.09 min

Lab File: VX000202.D

Acq: 02 Mar 2018 19:50

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 56 Resp: 2305  
Ion Ratio Lower Upper  
56 100  
69 117.1 24.9 37.3#  
84 151.9 75.0 112.4#



#33

1,2-Dichloroethane-d4

Concen: 51.74 ug/l

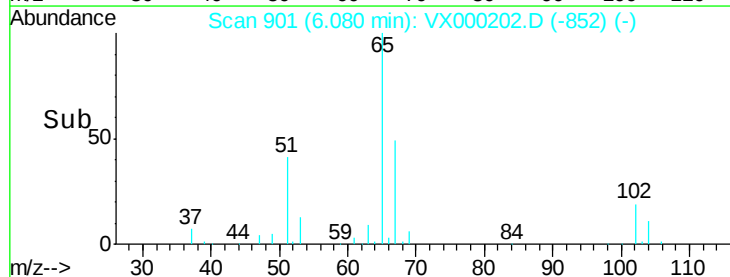
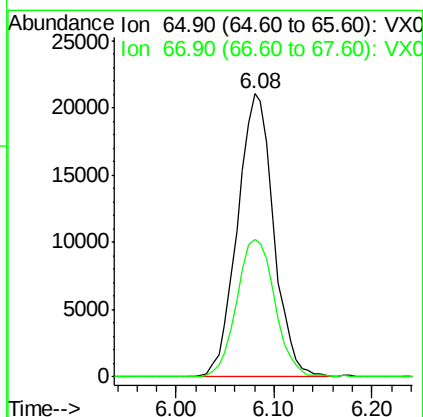
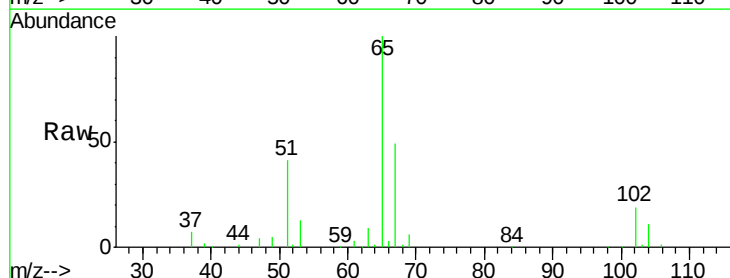
RT: 6.08 min Scan# 901

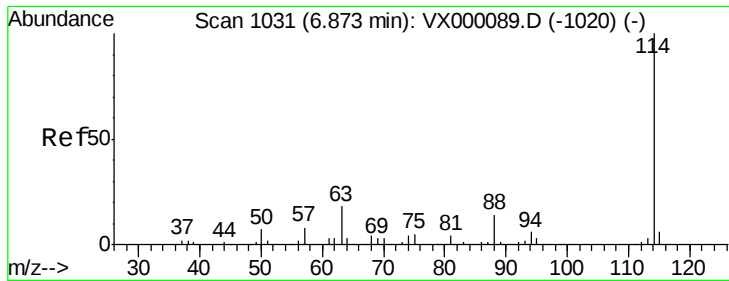
Delta R.T. -0.00 min

Lab File: VX000202.D

Acq: 02 Mar 2018 19:50

Tgt Ion: 65 Resp: 54012  
Ion Ratio Lower Upper  
65 100  
67 51.3 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VX000202.D

Acq: 02 Mar 2018 19:50

Instrument :

MSVOA\_X

ClientSampleId :

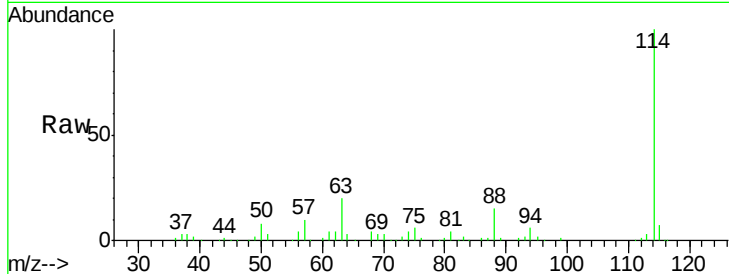
Tot Ion:114 Resp: 136899

Ion Ratio Lower Upper

114 100

63 19.9 0.0 36.4

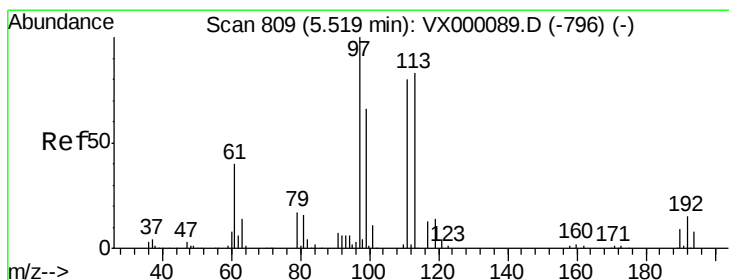
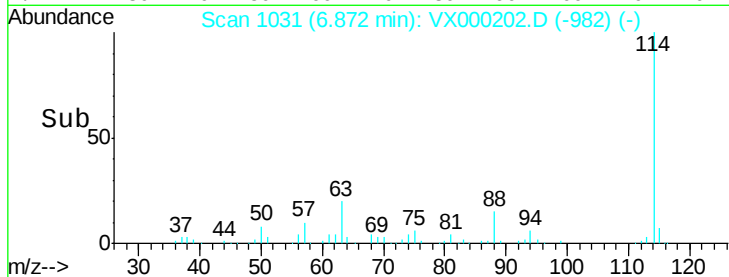
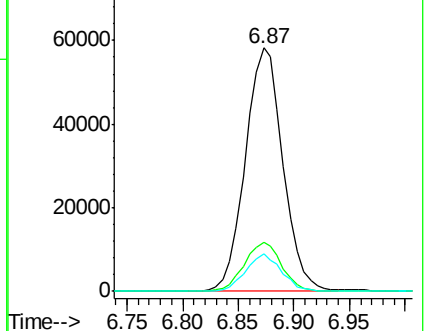
88 15.2 0.0 29.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.82 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.01 min

Lab File: VX000202.D

Acq: 02 Mar 2018 19:50

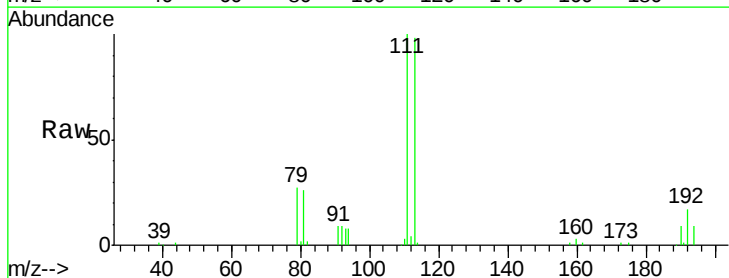
Tgt Ion:113 Resp: 41319

Ion Ratio Lower Upper

113 100

111 101.6 81.0 121.6

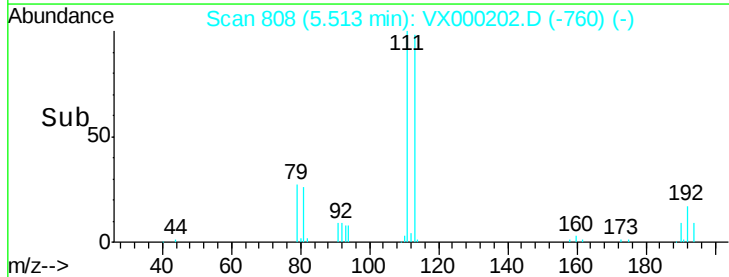
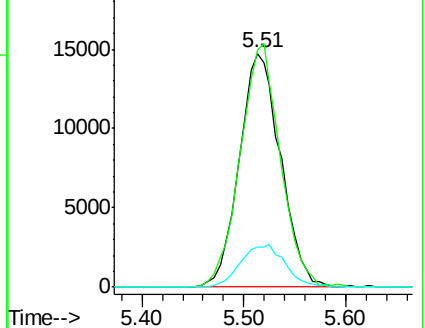
192 19.4 15.7 23.5

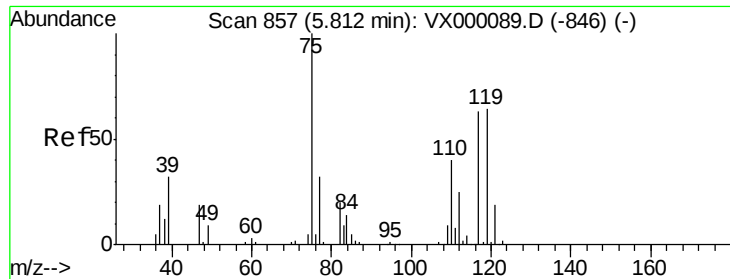


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.79 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.13 min

Lab File: VX000202.D

Acq: 02 Mar 2018 19:50

Instrument :

MSVOA\_X

ClientSampleId :

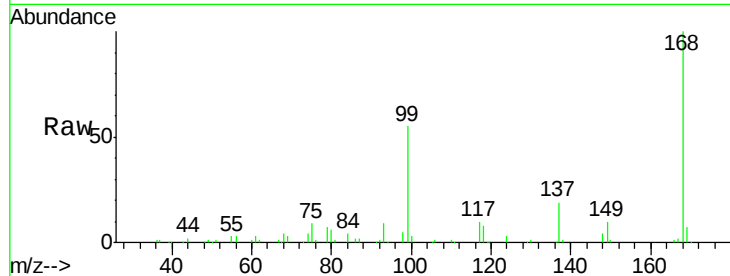
Tot Ion: 75 Resp: 7115

Ion Ratio Lower Upper

75 100

110 8.5 19.5 58.5#

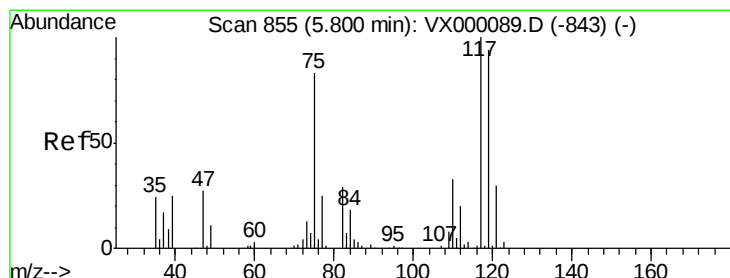
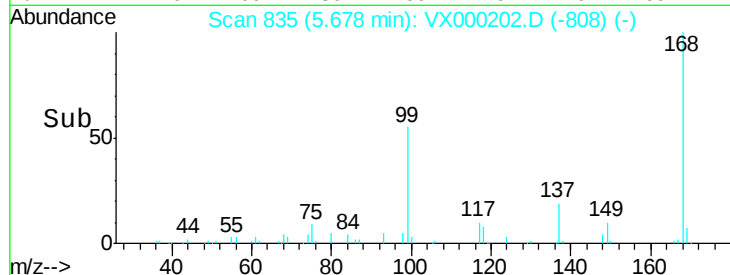
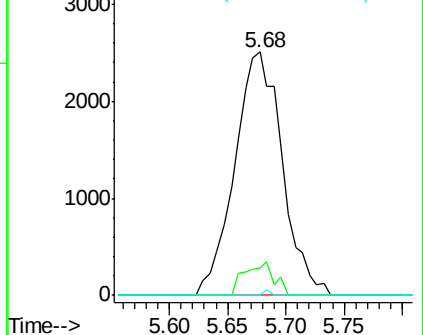
77 0.3 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.59 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.12 min

Lab File: VX000202.D

Acq: 02 Mar 2018 19:50

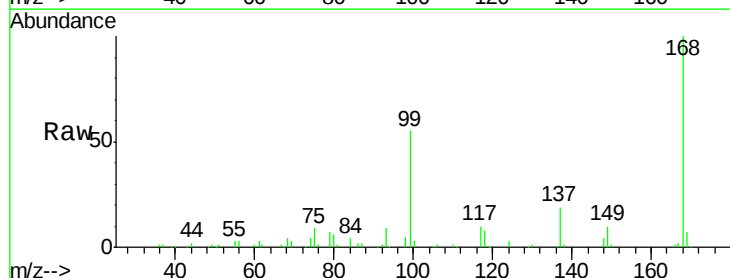
Tgt Ion: 117 Resp: 8746

Ion Ratio Lower Upper

117 100

119 3.6 75.3 112.9#

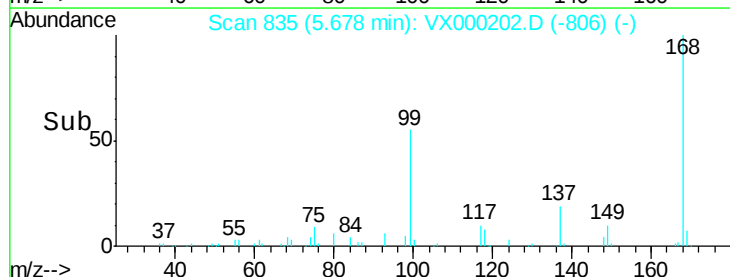
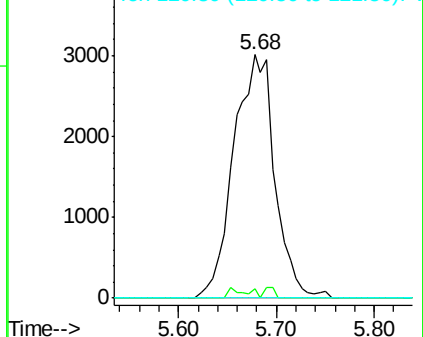
121 0.0 23.7 35.5#

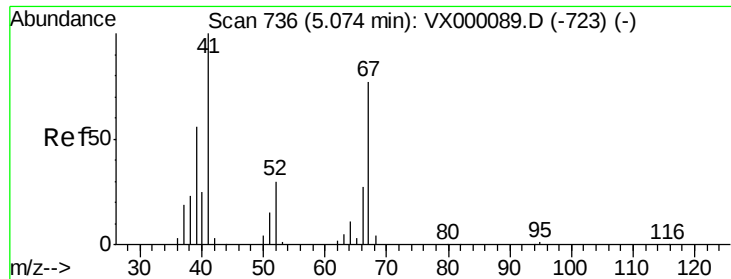


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

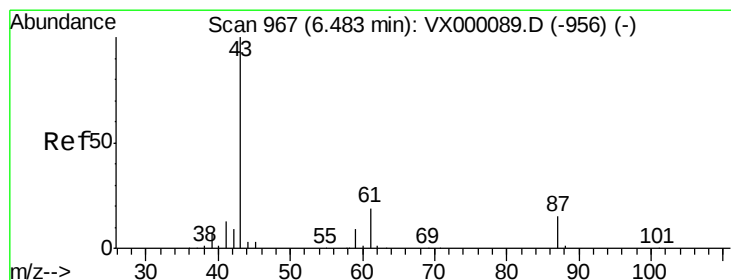
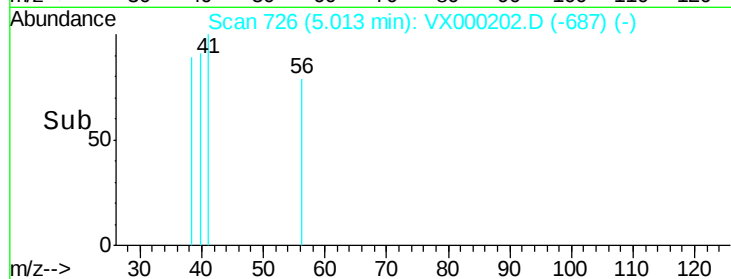
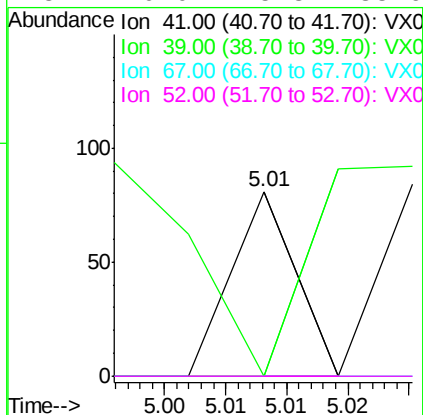
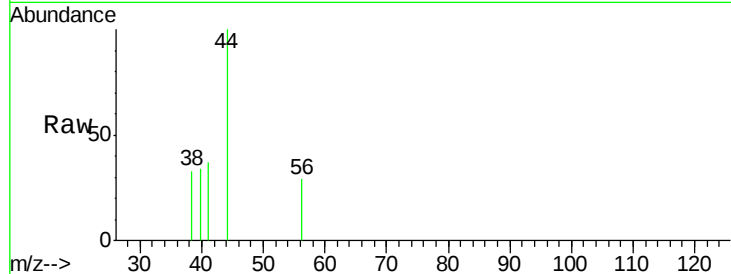




#41  
Methacrylonitrile  
Concen: Below Cal  
RT: 5.01 min Scan# 726  
Delta R.T. -0.06 min  
Lab File: VX000202.D  
Acq: 02 Mar 2018 19:50

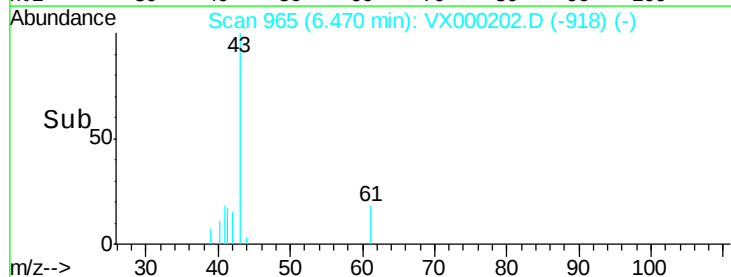
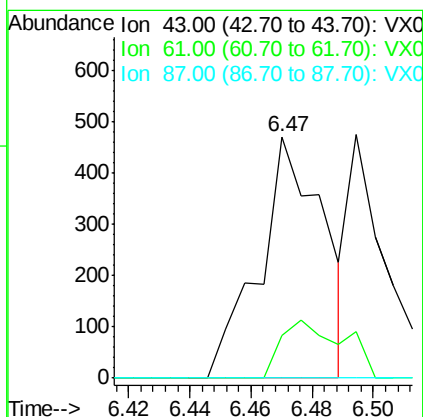
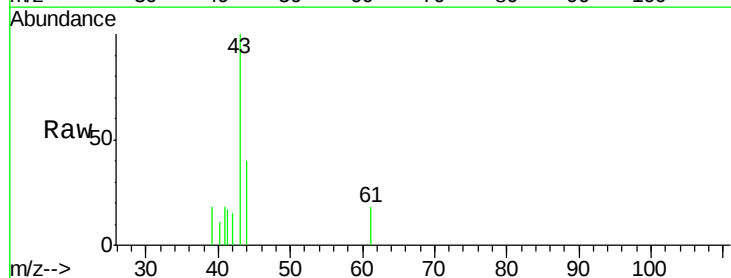
Instrument :  
MSVOA\_X  
ClientSampled :

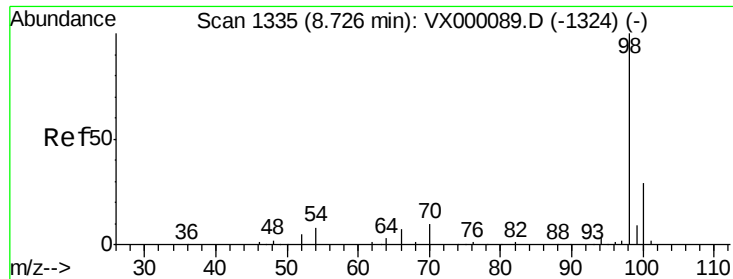
Tot Ion: 41 Resp: 30  
Ion Ratio Lower Upper  
41 100  
39 223.3 45.1 67.7#  
67 0.0 61.0 91.4#  
52 0.0 25.8 38.6#



#43  
Isopropyl Acetate  
Concen: 0.28 ug/l  
RT: 6.47 min Scan# 965  
Delta R.T. -0.01 min  
Lab File: VX000202.D  
Acq: 02 Mar 2018 19:50

Tgt Ion: 43 Resp: 686  
Ion Ratio Lower Upper  
43 100  
61 23.5 15.6 23.4#  
87 0.0 11.7 17.5#

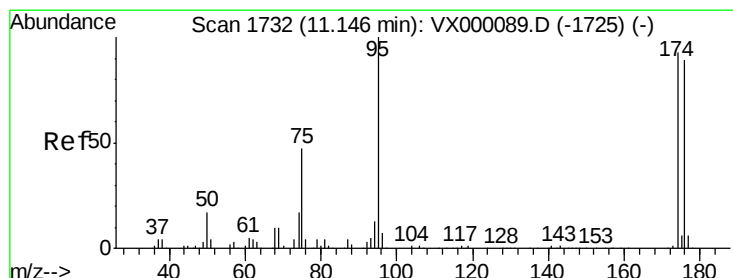
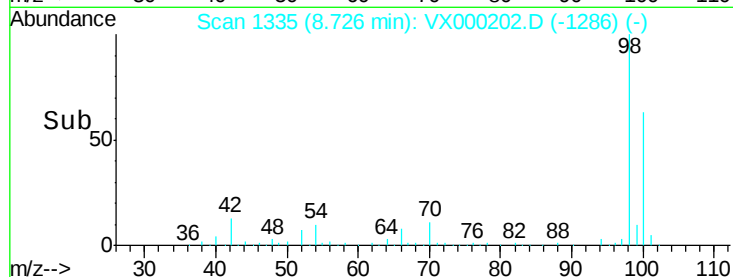
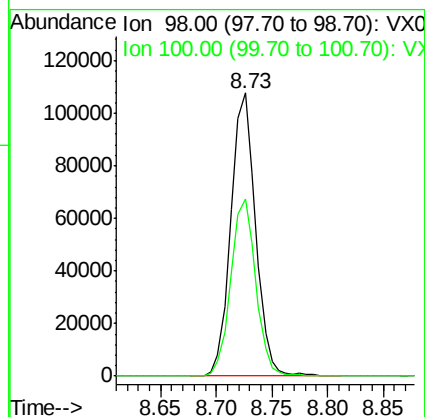
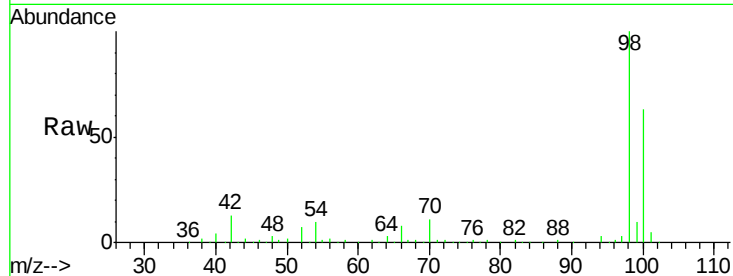




#50  
Toluene-d8  
Concen: 48.79 ug/l  
RT: 8.73 min Scan# 1335  
Delta R.T. -0.00 min  
Lab File: VX000202.D  
Acq: 02 Mar 2018 19:50

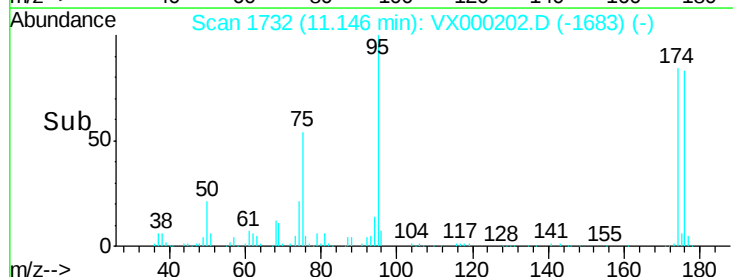
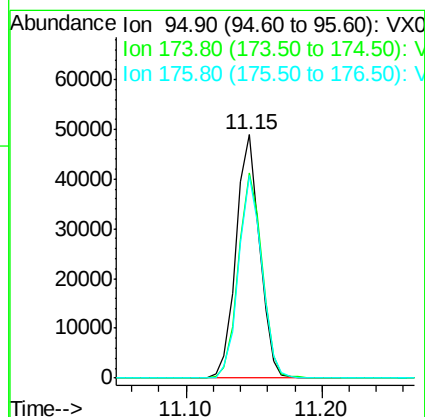
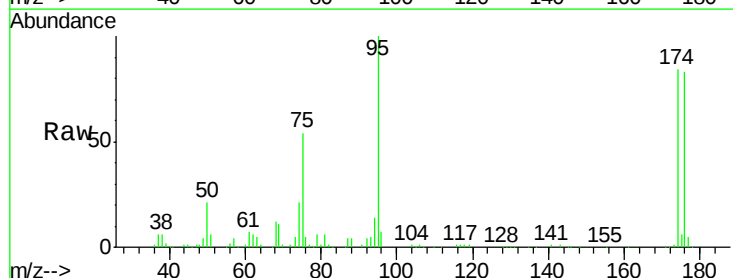
Instrument :  
MSVOA\_X  
ClientSampled :

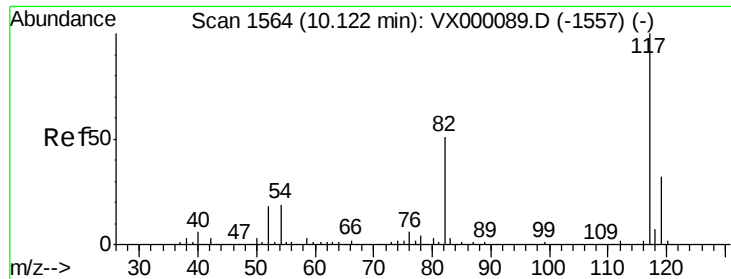
Tot Ion: 98 Resp: 166300  
Ion Ratio Lower Upper  
98 100  
100 63.2 52.2 78.2



#62  
4-Bromofluorobenzene  
Concen: 44.13 ug/l  
RT: 11.15 min Scan# 1732  
Delta R.T. -0.00 min  
Lab File: VX000202.D  
Acq: 02 Mar 2018 19:50

Tgt Ion: 95 Resp: 58977  
Ion Ratio Lower Upper  
95 100  
174 84.8 0.0 187.8  
176 82.3 0.0 181.2

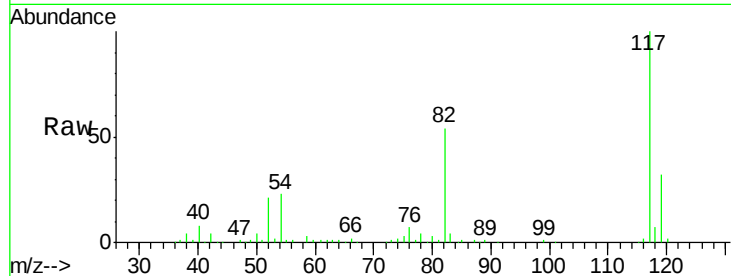




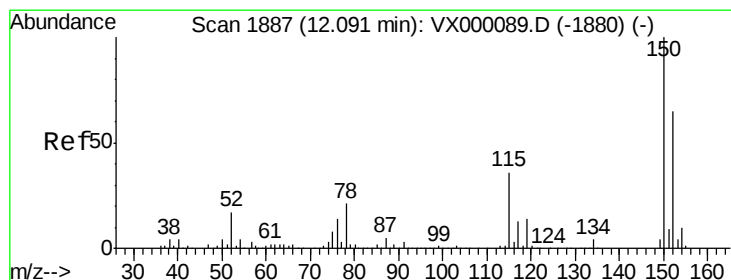
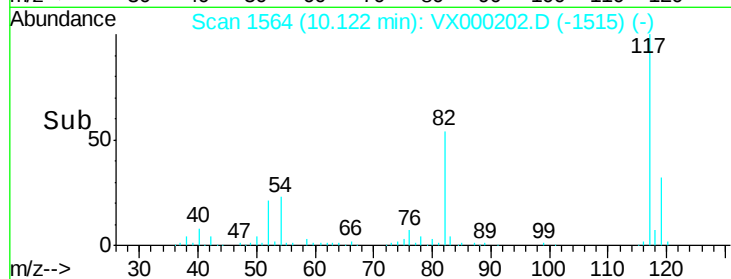
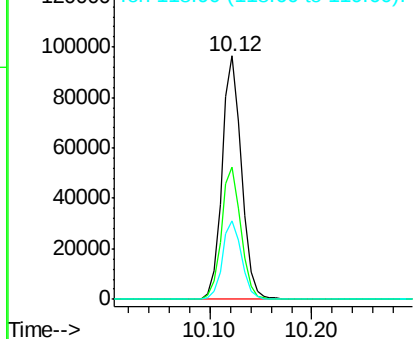
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. -0.00 min  
Lab File: VX000202.D  
Acq: 02 Mar 2018 19:50

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion:117 Resp: 128066  
Ion Ratio Lower Upper  
117 100  
82 54.2 41.0 61.6  
119 32.5 25.5 38.3

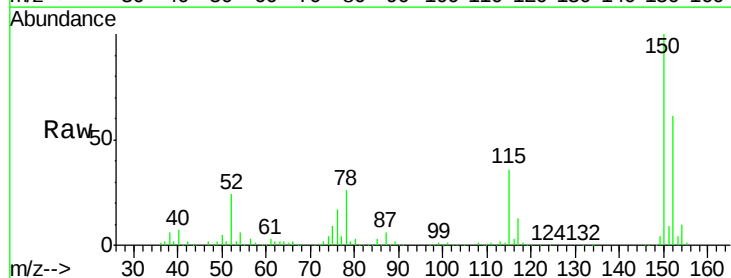


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

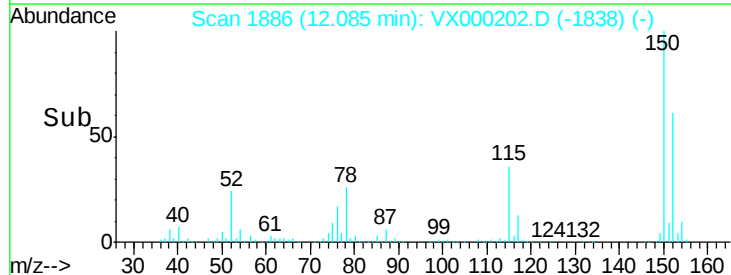
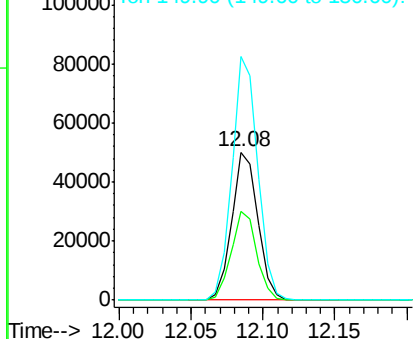


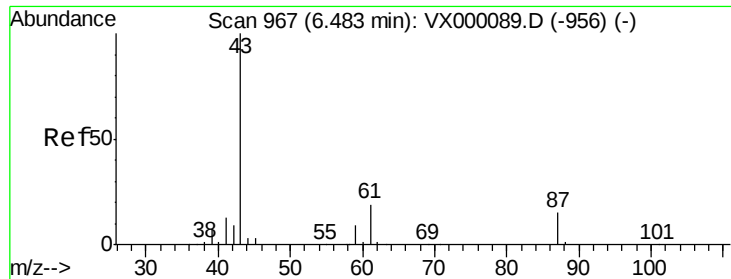
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.08 min Scan# 1886  
Delta R.T. -0.01 min  
Lab File: VX000202.D  
Acq: 02 Mar 2018 19:50

Tgt Ion:152 Resp: 63542  
Ion Ratio Lower Upper  
152 100  
115 58.9 39.1 117.2  
150 162.5 0.0 348.2



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.34 ug/l

RT: 6.47 min Scan# 965

Delta R.T. -0.01 min

Lab File: VX000202.D

Acq: 02 Mar 2018 19:50

Instrument :

MSVOA\_X

ClientSampleId :

Tot Ion: 43 Resp: 686

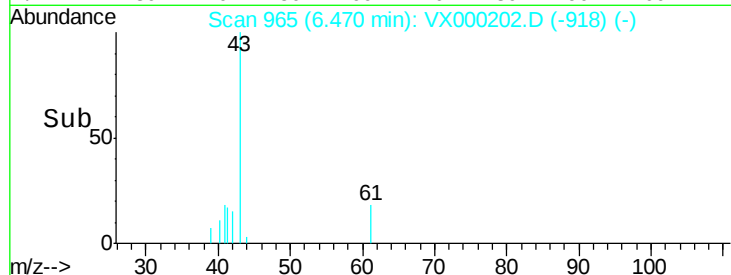
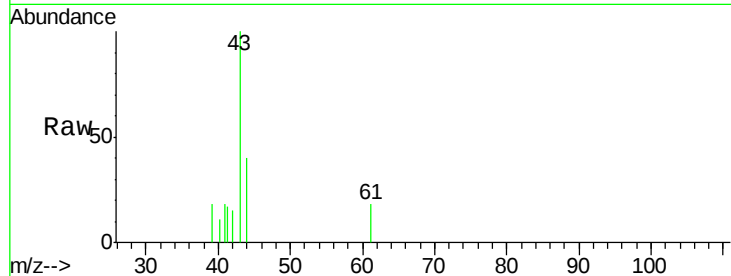
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.1 0.1#

61 23.5 15.6 23.4#

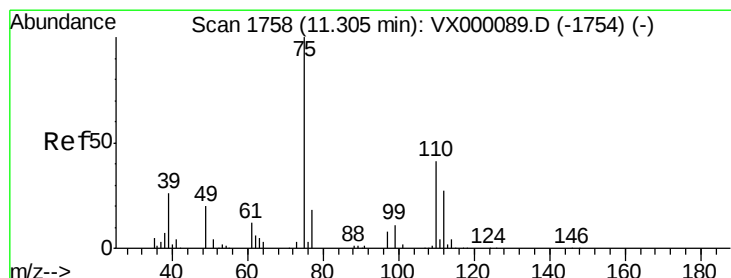
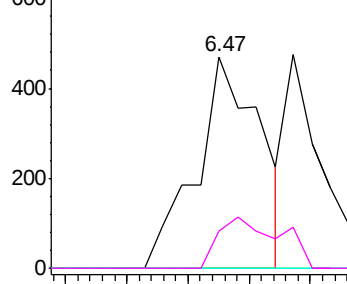


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 25.32 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000202.D

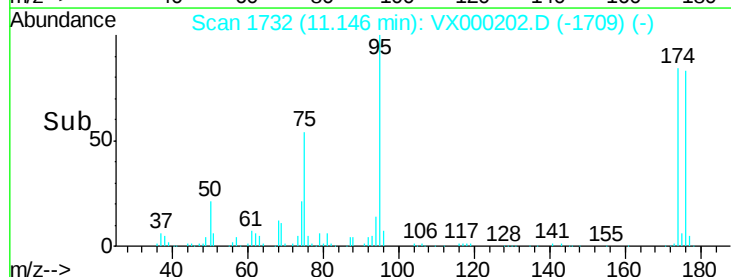
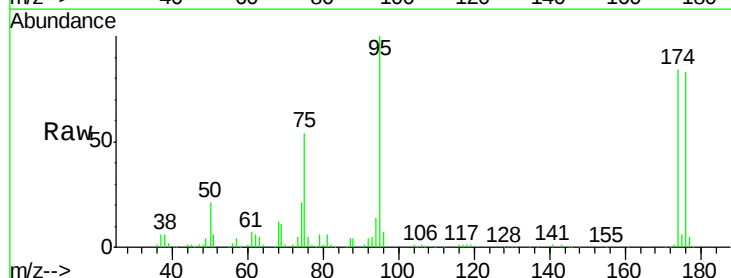
Acq: 02 Mar 2018 19:50

Tgt Ion: 75 Resp: 33327

Ion Ratio Lower Upper

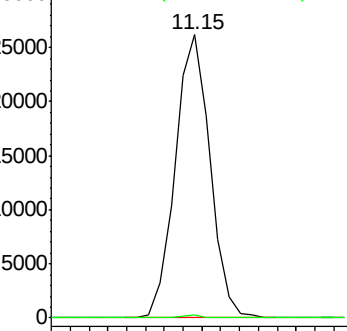
75 100

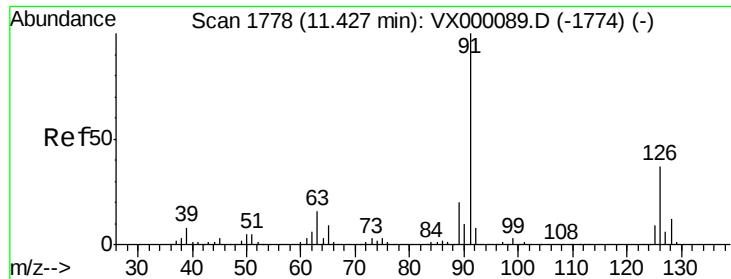
77 0.6 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

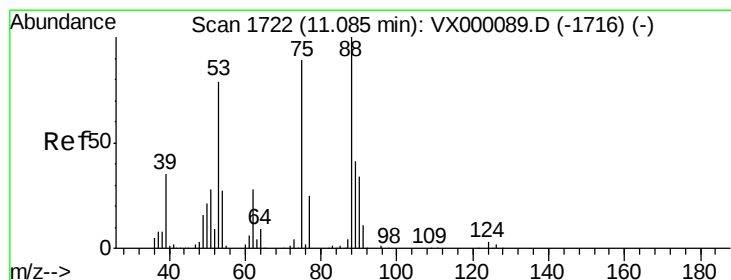
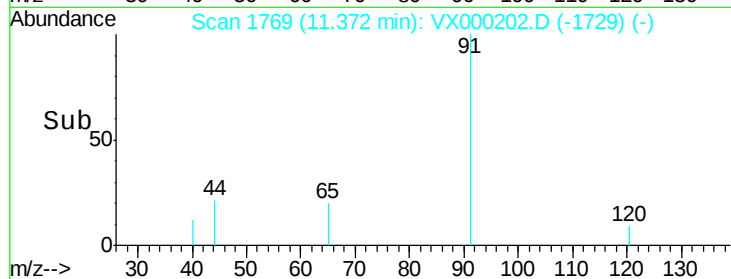
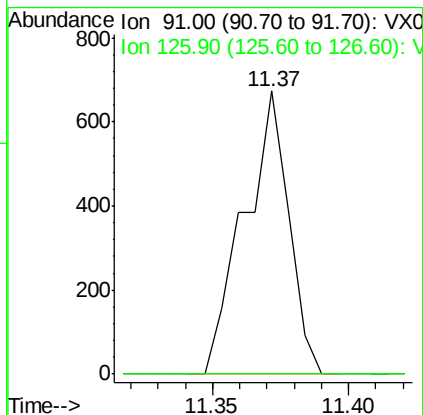
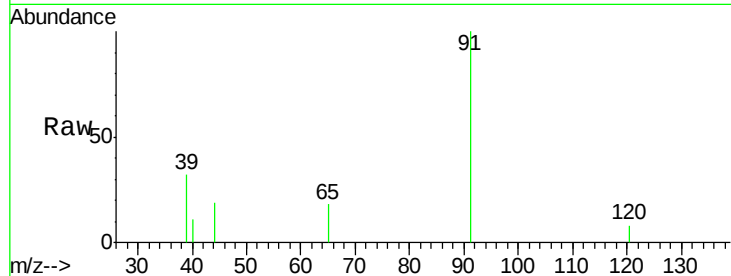




#79  
 2-Chlorotoluene  
 Concen: 0.28 ug/l  
 RT: 11.37 min Scan# 1769  
 Delta R.T. -0.06 min  
 Lab File: VX000202.D  
 Acq: 02 Mar 2018 19:50

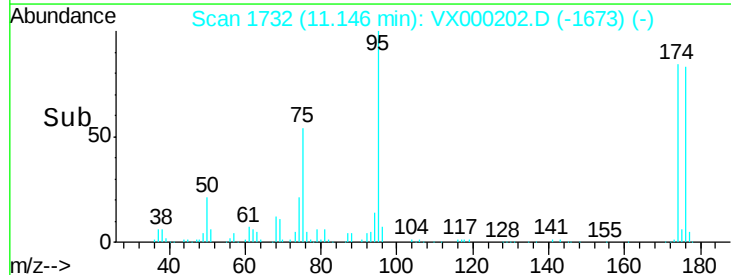
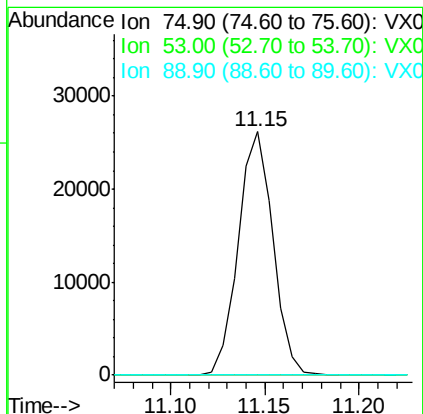
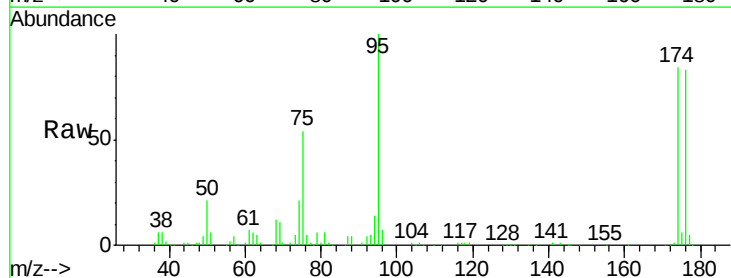
Instrument :  
 MSVOA\_X  
 ClientSampleId :

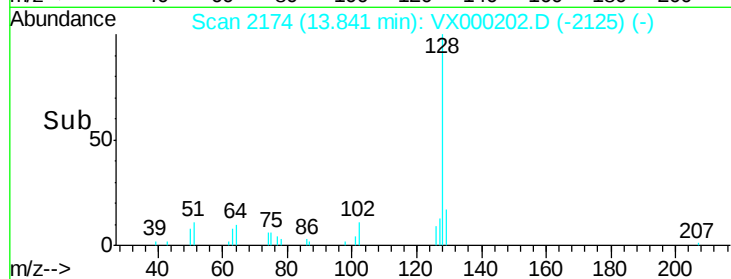
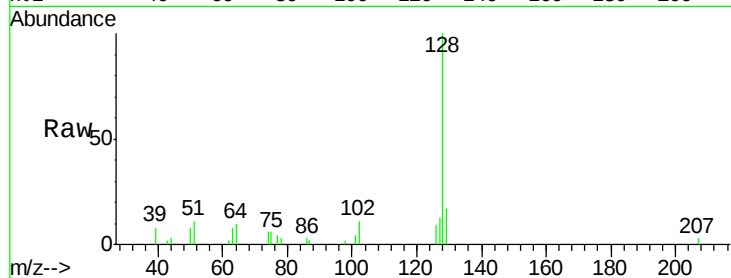
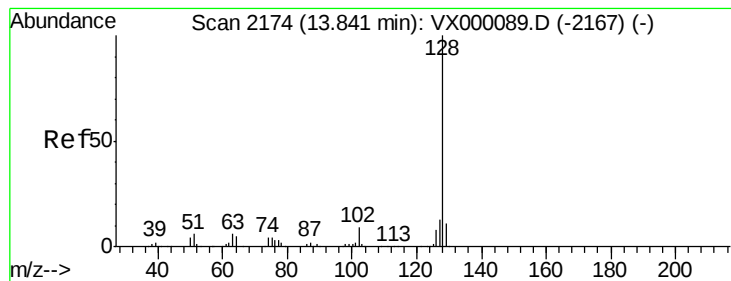
Tot Ion: 91 Resp: 762  
 Ion Ratio Lower Upper  
 91 100  
 126 0.0 18.4 55.2#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 72.11 ug/l  
 RT: 11.15 min Scan# 1732  
 Delta R.T. 0.06 min  
 Lab File: VX000202.D  
 Acq: 02 Mar 2018 19:50

Tgt Ion: 75 Resp: 33327  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 72.3 108.5#  
 89 0.1 40.6 60.8#





#95

Naphthalene

Concen: 0.67 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX000202.D

Acq: 02 Mar 2018 19:50

Instrument :

MSVOA\_X

ClientSampleId :

Tot Ion:128 Resp: 3516

Ion Ratio Lower Upper

128 100

127 17.2 10.4 15.6#

129 12.8 8.7 13.1

