

Data File : VX000401.D  
Acq On : 22 Mar 2018 13:06  
Operator : JC/MD  
Sample : J1992-03  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
DRUM-1-4-B

Quant Time: Mar 23 05:42:11 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X032018W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 21 04:52:42 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.68  | 168  | 96317    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 162183   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 154314   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 72554    | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 6.08   | 65  | 67516    | 53.70 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 107.40% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 52089    | 50.97 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.94% |      |
| 50) Toluene-d8              | 8.73   | 98  | 204332   | 48.28 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.56%  |      |
| 62) 4-Bromofluorobenzene    | 11.15  | 95  | 66706    | 38.87 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 77.74%  |      |

|                                |       |     |        |           |        |    |
|--------------------------------|-------|-----|--------|-----------|--------|----|
| Target Compounds               |       |     | Qvalue |           |        |    |
| 6) Chloroethane                | 1.71  | 64  | 348    | Below Cal | #      | 44 |
| 10) Methyl Iodide              | 2.51  | 142 | 48     | 4.31      | ug/l # | 37 |
| 11) Tert butyl alcohol         | 3.06  | 59  | 885    | 2.05      | ug/l # | 72 |
| 13) Acrolein                   | 2.45  | 56  | 20     | 14.71     | ug/l # | 1  |
| 16) Acetone                    | 2.45  | 43  | 26321  | 25.17     | ug/l   | 96 |
| 20) Methylene Chloride         | 2.87  | 84  | 22647  | 18.75     | ug/l   | 90 |
| 25) 2-Butanone                 | 4.72  | 43  | 4334   | 3.69      | ug/l   | 94 |
| 31) Cyclohexane                | 5.67  | 56  | 2371   | 1.49      | ug/l # | 73 |
| 36) 1,1-Dichloropropene        | 5.67  | 75  | 7430   | 4.89      | ug/l # | 51 |
| 37) Ethyl Acetate              | 4.72  | 43  | 4334   | 2.09      | ug/l # | 69 |
| 38) Carbon Tetrachloride       | 5.68  | 117 | 9143   | 5.74      | ug/l # | 16 |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43  | 827    | 0.35      | ug/l # | 83 |
| 59) 2-Hexanone                 | 9.51  | 43  | 717    | 0.35      | ug/l   | 82 |
| 74) N-amyl acetate             | 6.26  | 43  | 42     | Below Cal | #      | 59 |
| 76) 1,2,3-Trichloropropane     | 11.15 | 75  | 38281  | 24.55     | ug/l # | 35 |
| 81) trans-1,4-Dichloro-2-buten | 11.15 | 75  | 38281  | 79.48     | ug/l # | 9  |
| 90) Hexachloroethane           | 12.77 | 117 | 193    | 0.27      | ug/l # | 12 |

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

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Misc : 5.0mL/MSVOA\_X/WATER

ALS Vial : 5 Sample Multiplier: 1

Instrument :

MSVOA\_X

ClientSampleId :

DRUM-1-4-B

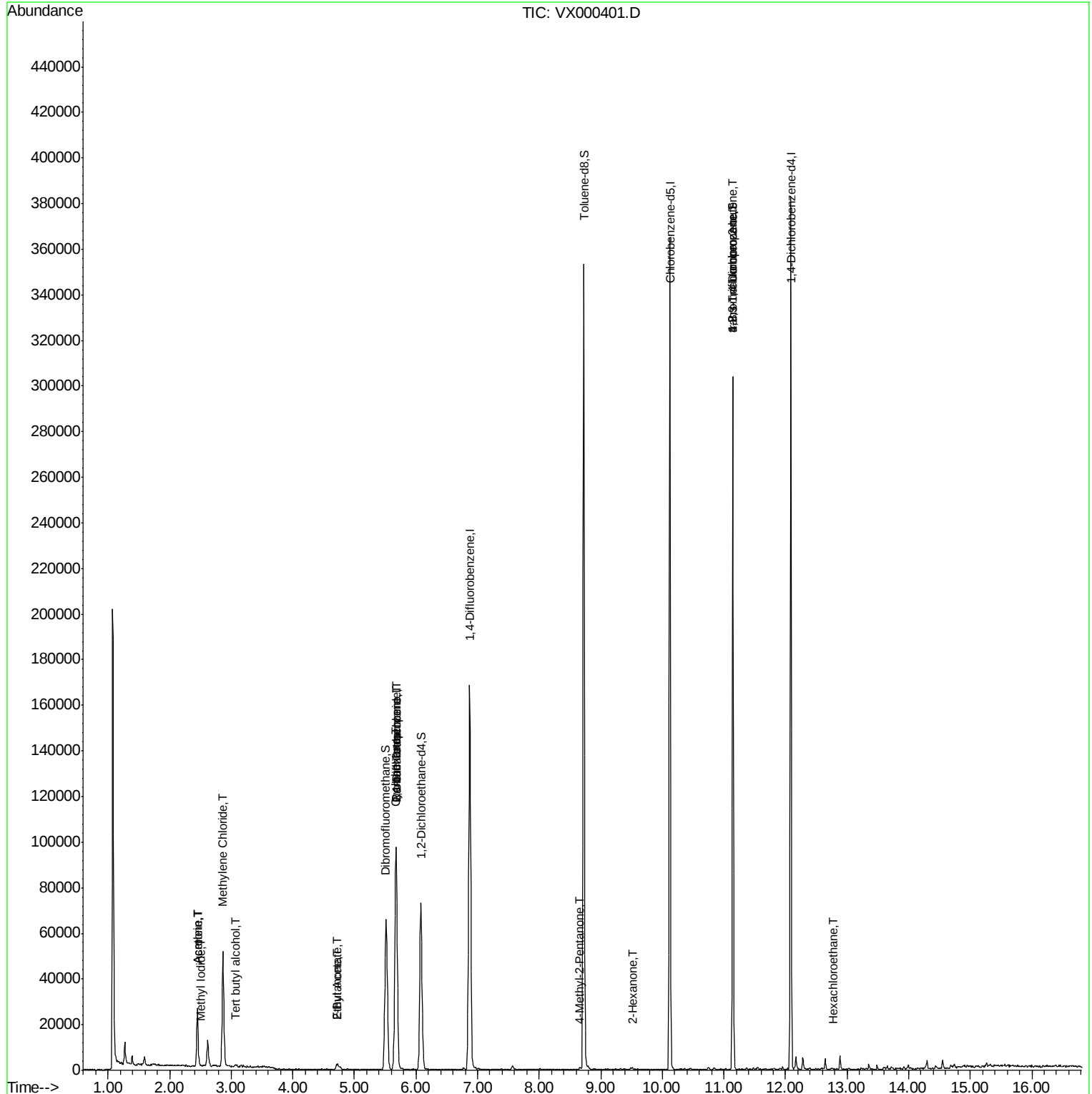
Quant Time: Mar 23 05:42:11 2018

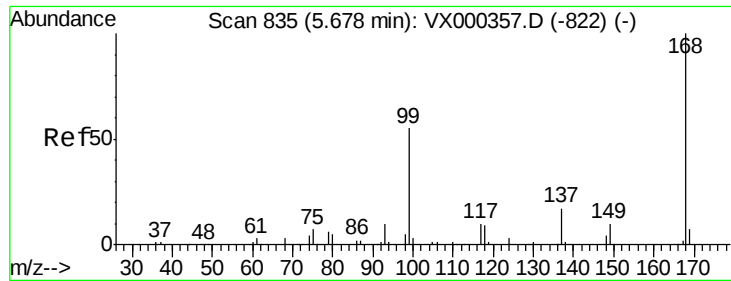
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X032018W.M

Quant Title : SW846 8260

QLast Update : Wed Mar 21 04:52:42 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: VX000401.D

Acq: 22 Mar 2018 13:06

Instrument :

MSVOA\_X

ClientSampleId :

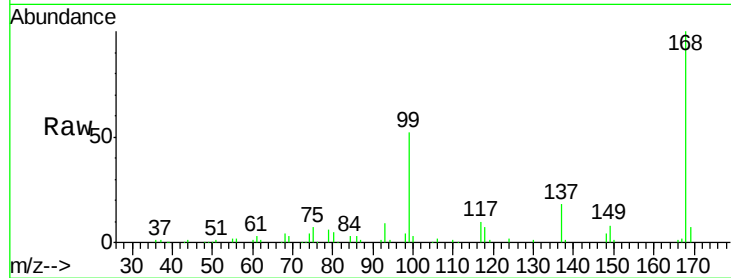
DRUM-1-4-B

Tgt Ion:168 Resp: 96317

Ion Ratio Lower Upper

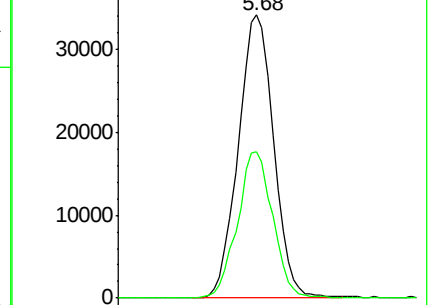
168 100

99 51.6 45.8 68.6

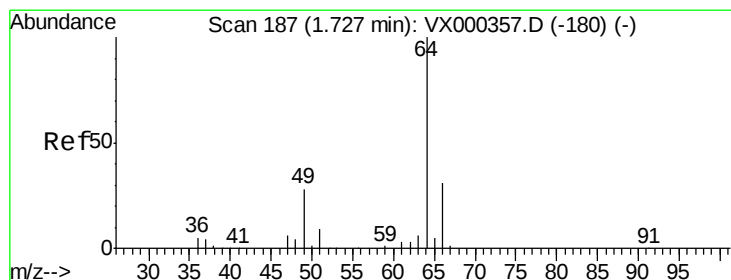
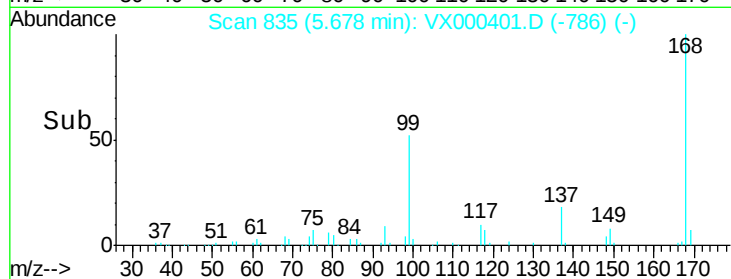


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX000401.D

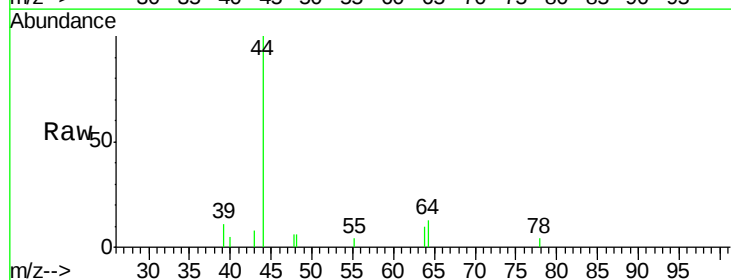
Acq: 22 Mar 2018 13:06

Tgt Ion: 64 Resp: 348

Ion Ratio Lower Upper

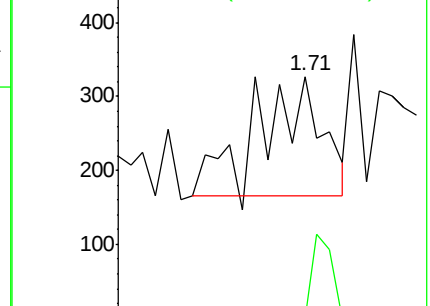
64 100

66 0.0 24.8 37.2#

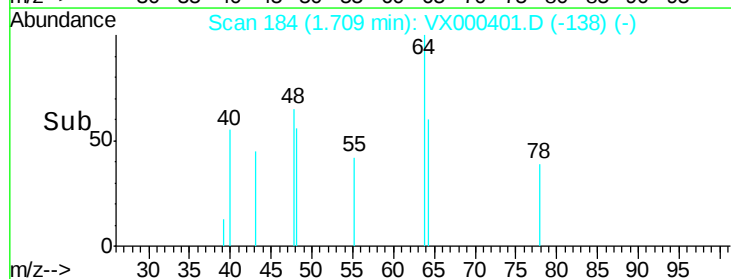


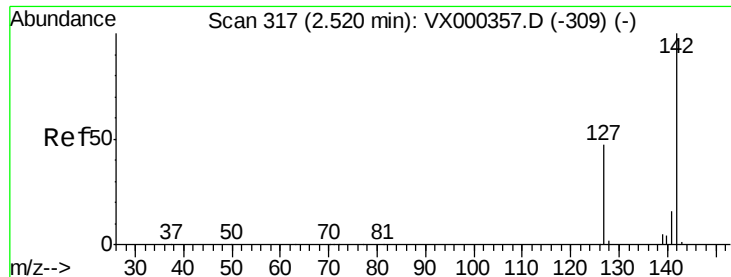
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->

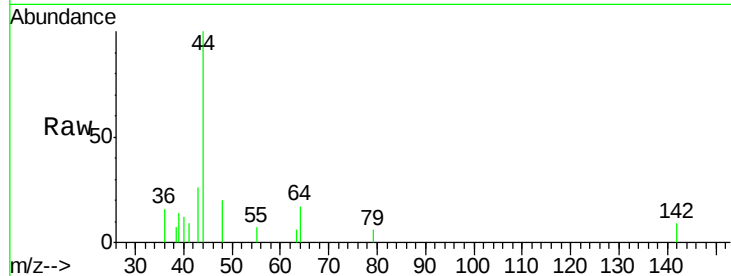




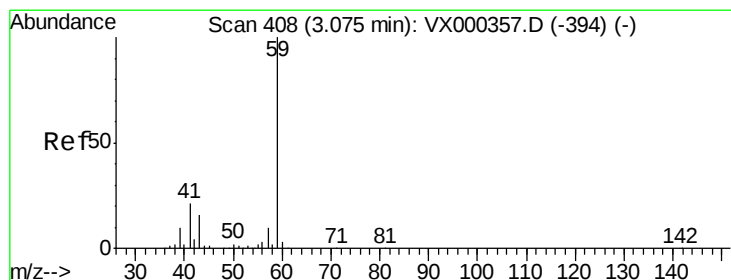
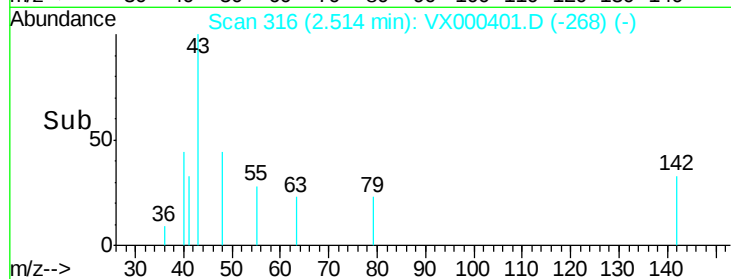
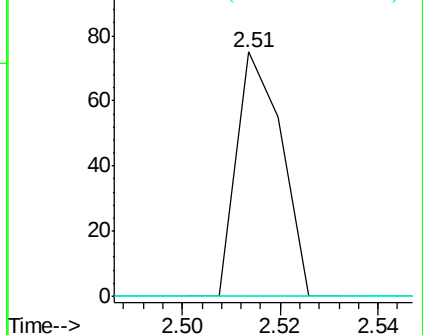
#10  
Methyl Iodide  
Concen: 4.31 ug/l  
RT: 2.51 min Scan# 316  
Delta R.T. -0.01 min  
Lab File: VX000401.D  
Acq: 22 Mar 2018 13:06

Instrument :  
MSVOA\_X  
ClientSampleId :  
DRUM-1-4-B

Tgt Ion:142 Resp: 48  
Ion Ratio Lower Upper  
142 100  
127 0.0 39.2 58.8#  
141 0.0 11.7 17.5#

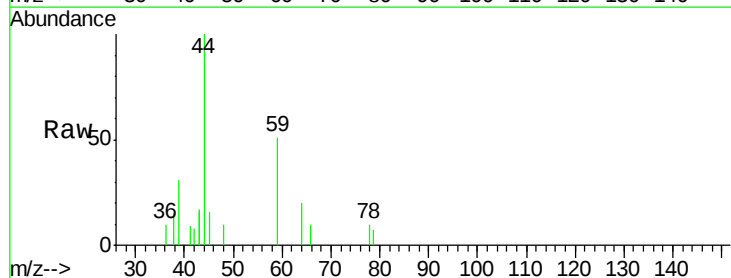


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

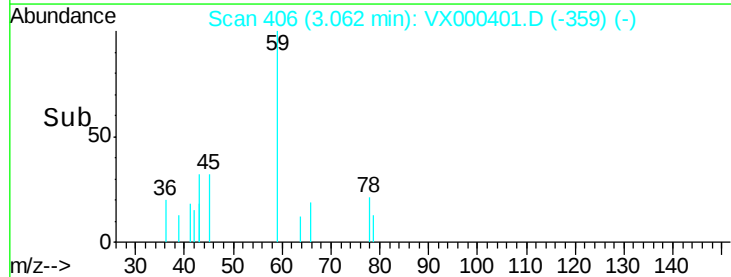
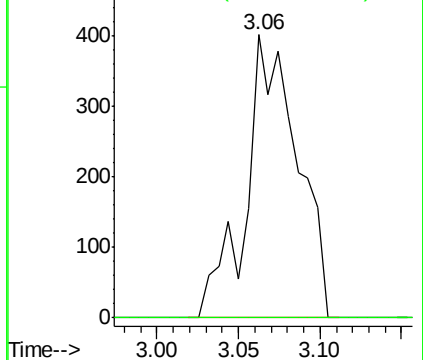


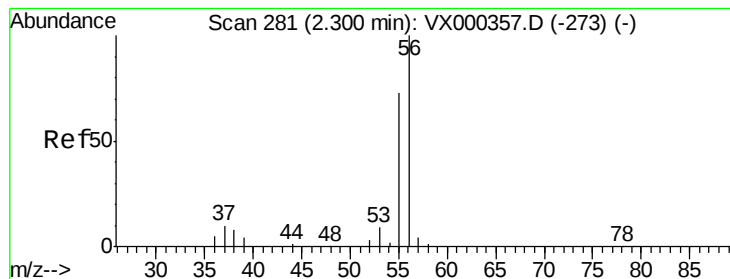
#11  
Tert butyl alcohol  
Concen: 2.05 ug/l  
RT: 3.06 min Scan# 406  
Delta R.T. -0.01 min  
Lab File: VX000401.D  
Acq: 22 Mar 2018 13:06

Tgt Ion: 59 Resp: 885  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0  
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 14.71 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.15 min

Lab File: VX000401.D

Acq: 22 Mar 2018 13:06

Instrument :

MSVOA\_X

ClientSampled :

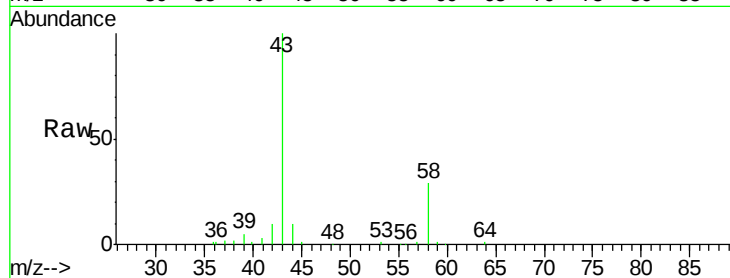
DRUM-1-4-B

Tgt Ion: 56 Resp: 20

Ion Ratio Lower Upper

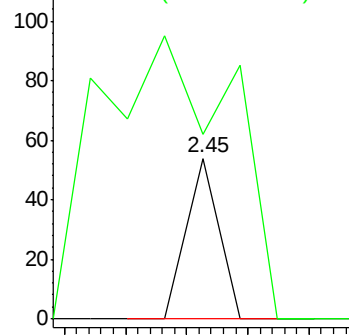
56 100

55 715.0 58.8 88.2#

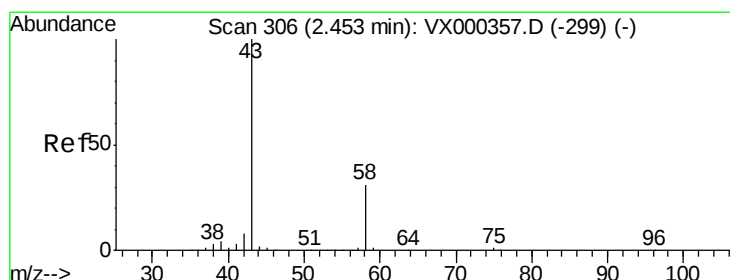
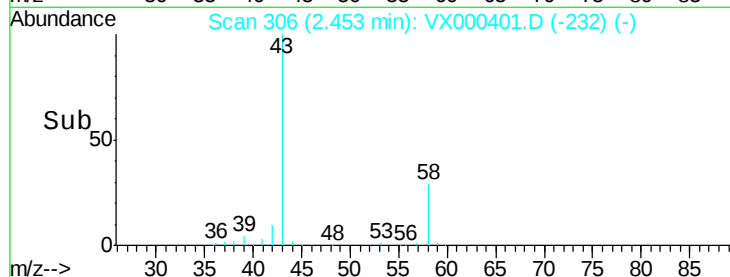


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time--> 2.43 2.44 2.45 2.46 2.47



#16

Acetone

Concen: 25.17 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX000401.D

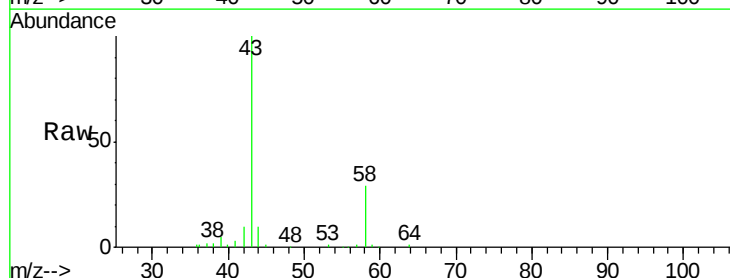
Acq: 22 Mar 2018 13:06

Tgt Ion: 43 Resp: 26321

Ion Ratio Lower Upper

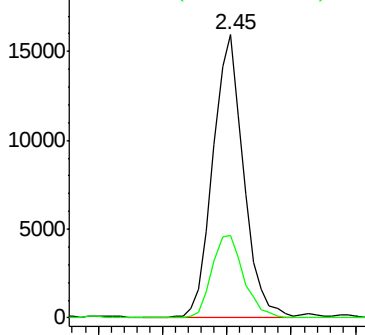
43 100

58 28.9 24.7 37.1

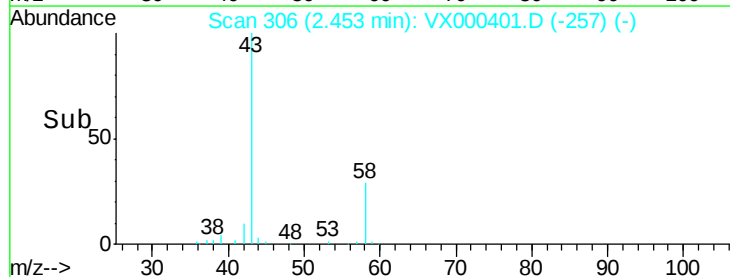


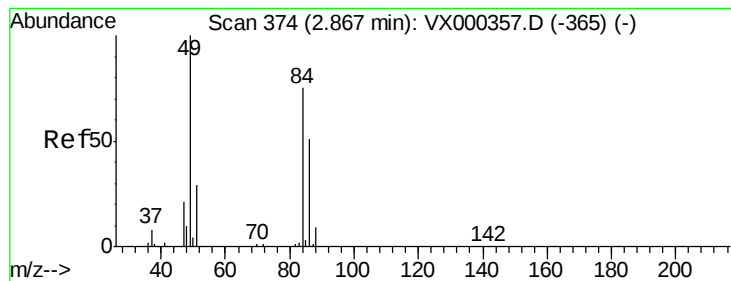
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time--> 2.35 2.40 2.45 2.50





#20

Methylene Chloride

Concen: 18.75 ug/l

RT: 2.87 min Scan# 374

Delta R.T. -0.00 min

Lab File: VX000401.D

Acq: 22 Mar 2018 13:06

Instrument :

MSVOA\_X

ClientSampled :

DRUM-1-4-B

Tgt Ion: 84 Resp: 22647

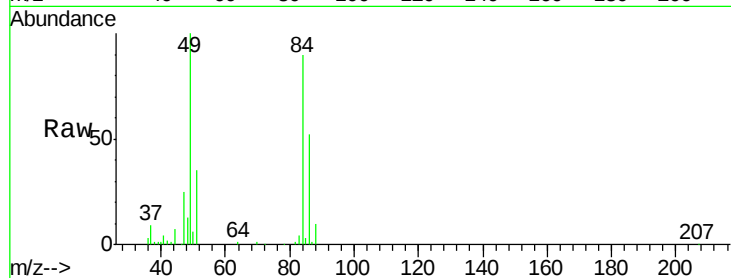
Ion Ratio Lower Upper

84 100

49 110.8 100.6 151.0

51 38.4 31.6 47.4

86 57.3 52.6 78.8

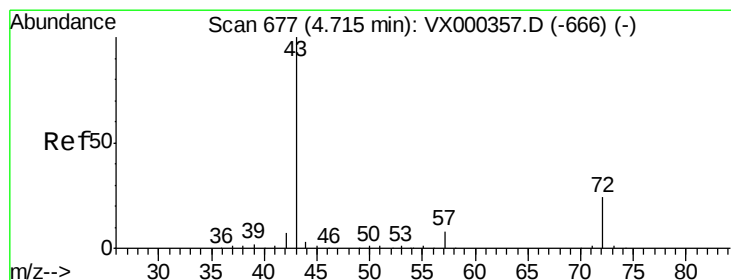
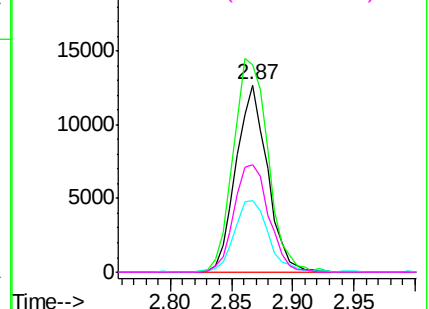
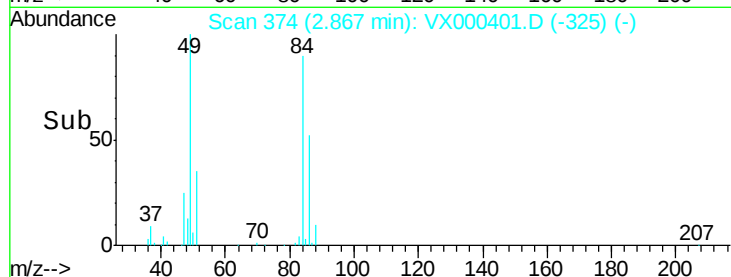


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 3.69 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX000401.D

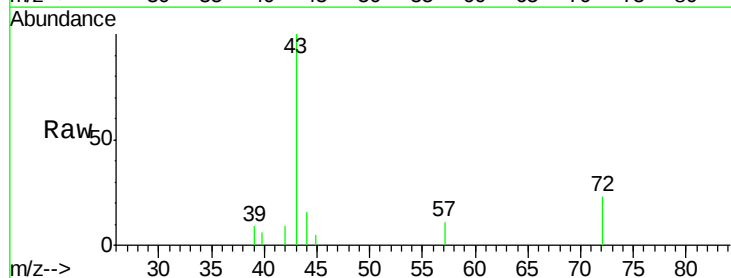
Acq: 22 Mar 2018 13:06

Tgt Ion: 43 Resp: 4334

Ion Ratio Lower Upper

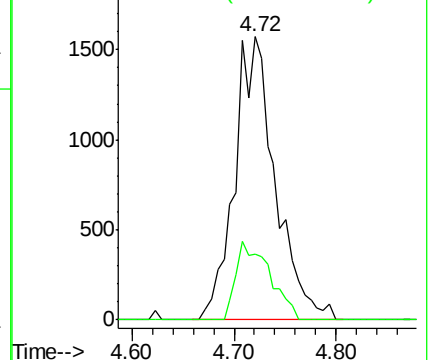
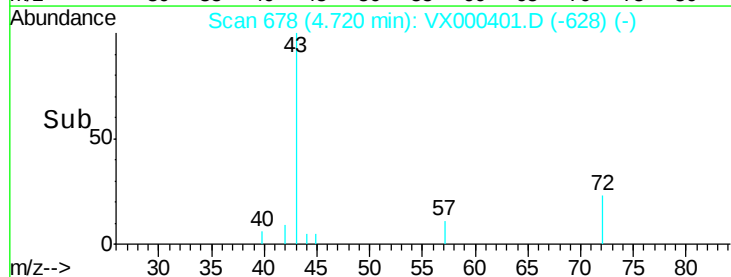
43 100

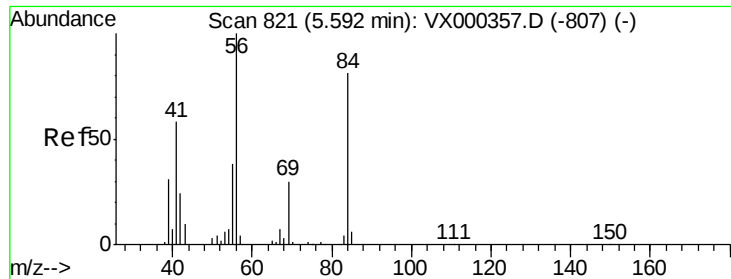
72 23.2 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

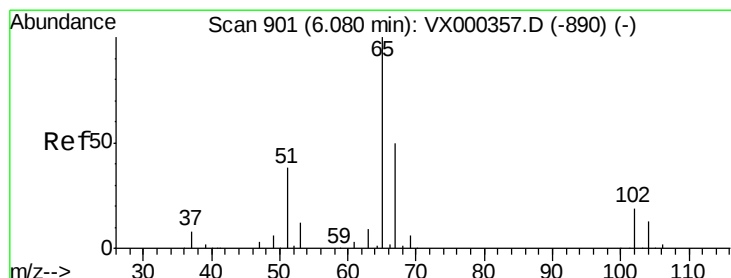
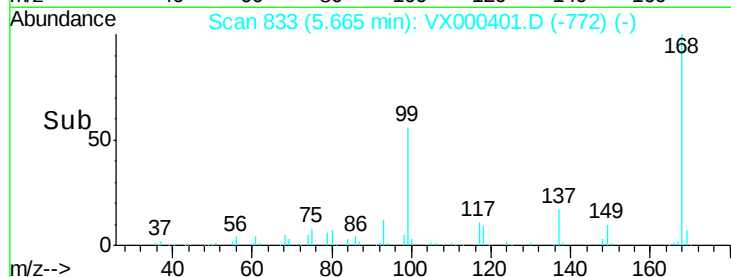
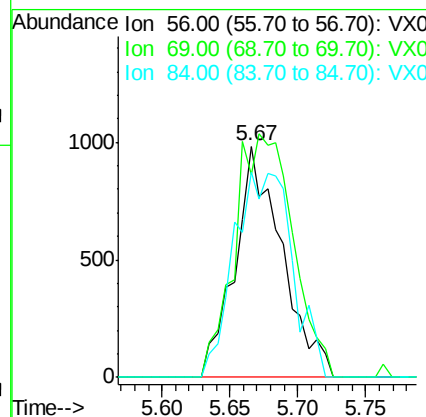
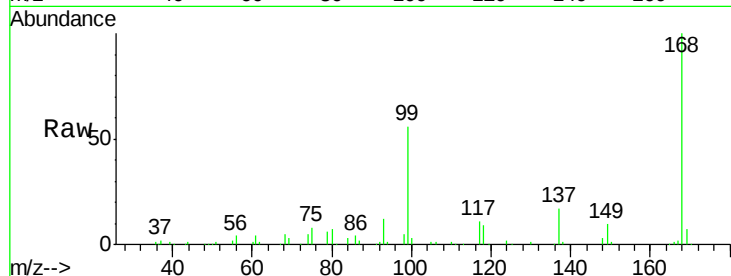




#31  
Cyclohexane  
Concen: 1.49 ug/l  
RT: 5.67 min Scan# 833  
Delta R.T. 0.07 min  
Lab File: VX000401.D  
Acq: 22 Mar 2018 13:06

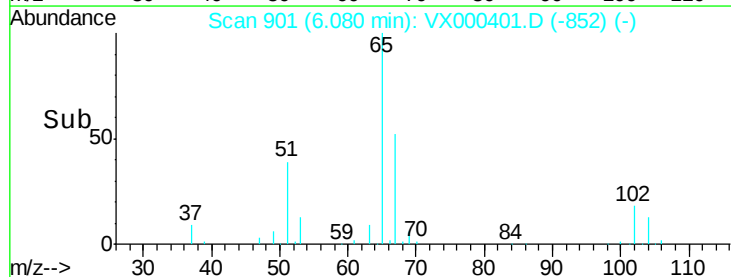
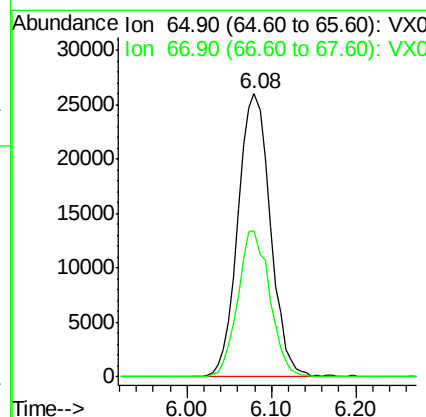
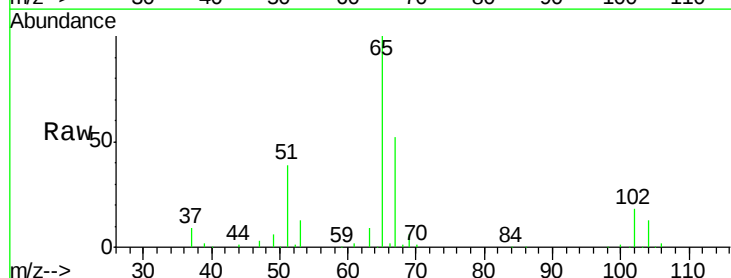
Instrument :  
MSVOA\_X  
ClientSampled :  
DRUM-1-4-B

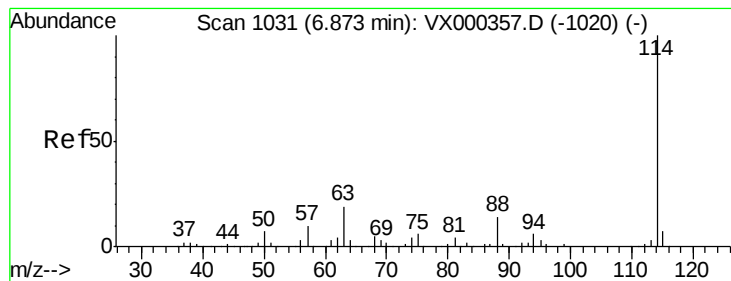
Tgt Ion: 56 Resp: 2371  
Ion Ratio Lower Upper  
56 100  
69 87.9 23.4 35.0#  
84 88.6 71.0 106.4



#33  
1,2-Dichloroethane-d4  
Concen: 53.70 ug/l  
RT: 6.08 min Scan# 901  
Delta R.T. -0.00 min  
Lab File: VX000401.D  
Acq: 22 Mar 2018 13:06

Tgt Ion: 65 Resp: 67516  
Ion Ratio Lower Upper  
65 100  
67 51.0 0.0 103.2





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VX000401.D

Acq: 22 Mar 2018 13:06

Instrument :

MSVOA\_X

ClientSampleId :

DRUM-1-4-B

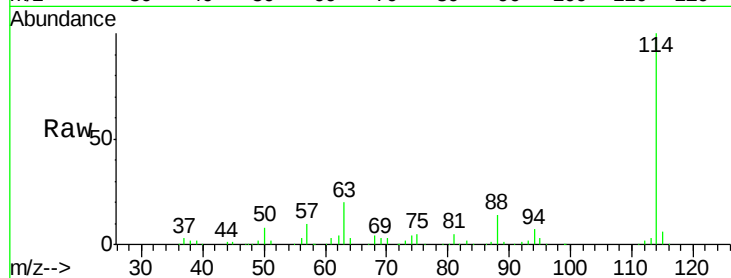
Tgt Ion:114 Resp: 162183

Ion Ratio Lower Upper

114 100

63 20.2 0.0 38.4

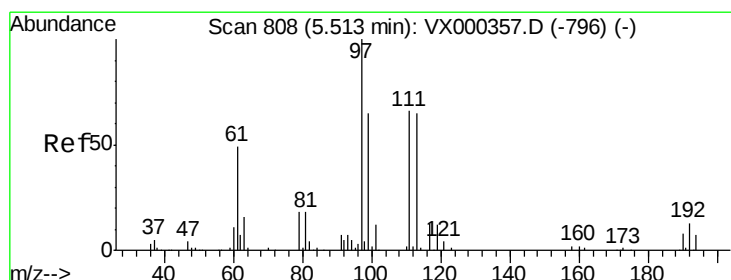
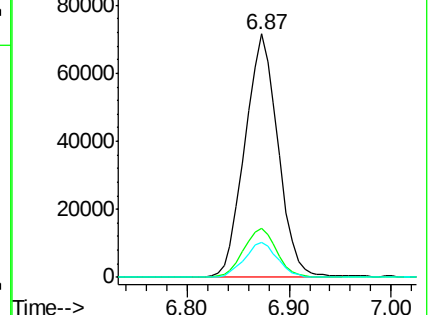
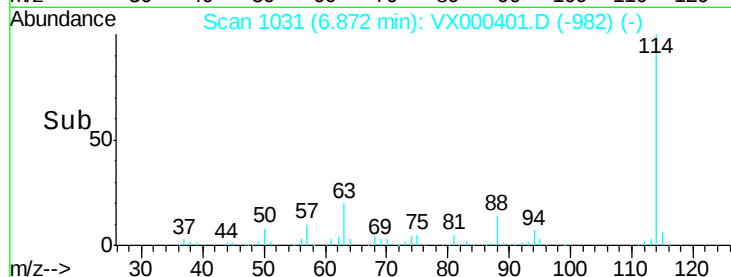
88 14.4 0.0 27.0



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: 50.97 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000401.D

Acq: 22 Mar 2018 13:06

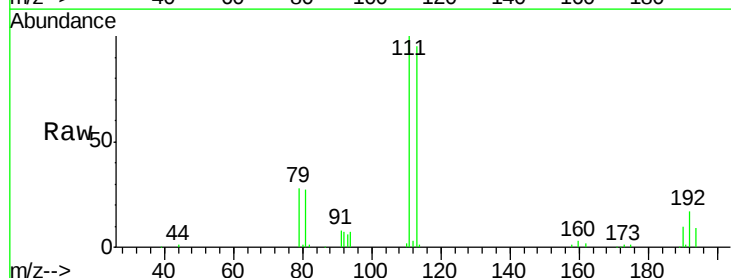
Tgt Ion:113 Resp: 52089

Ion Ratio Lower Upper

113 100

111 102.6 82.4 123.6

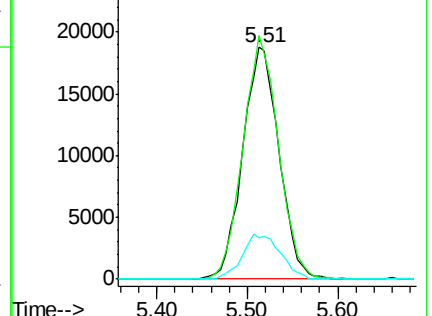
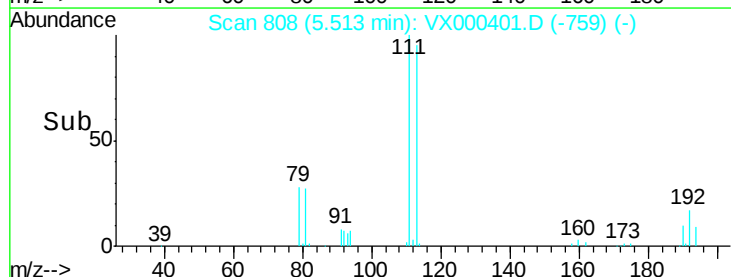
192 20.2 15.8 23.6

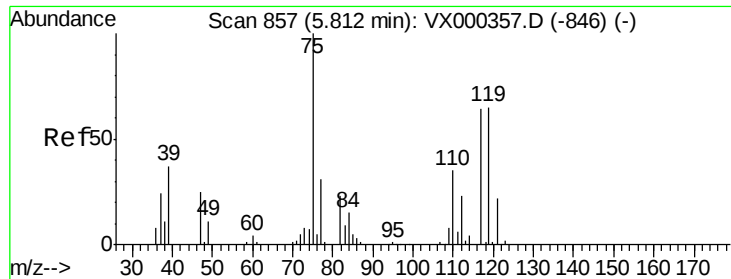


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

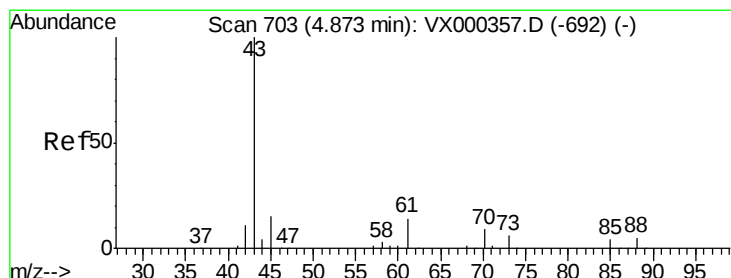
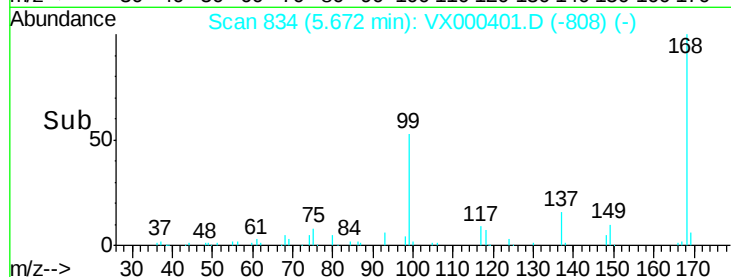
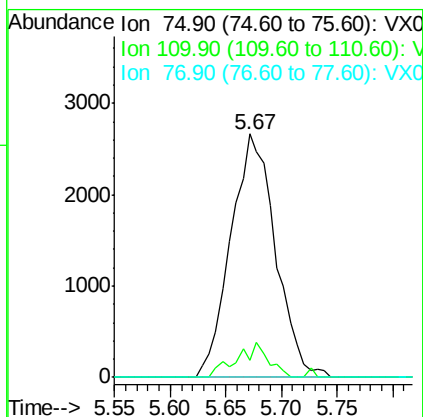
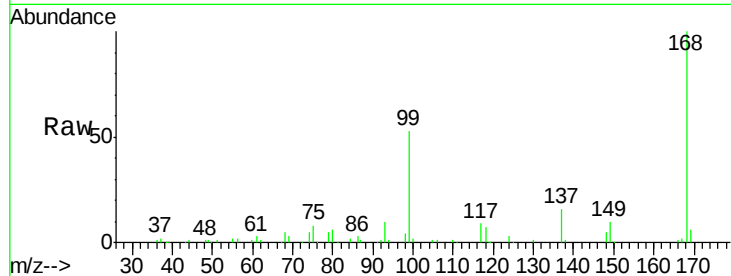




#36  
 1,1-Dichloropropene  
 Concen: 4.89 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.14 min  
 Lab File: VX000401.D  
 Acq: 22 Mar 2018 13:06

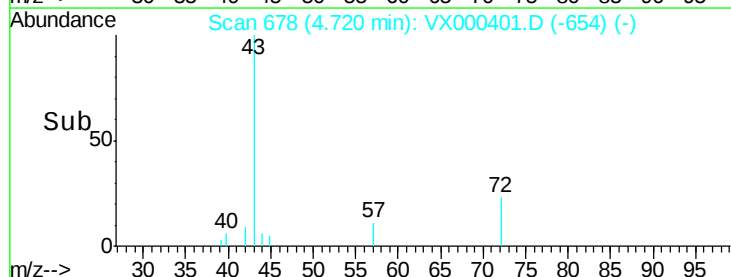
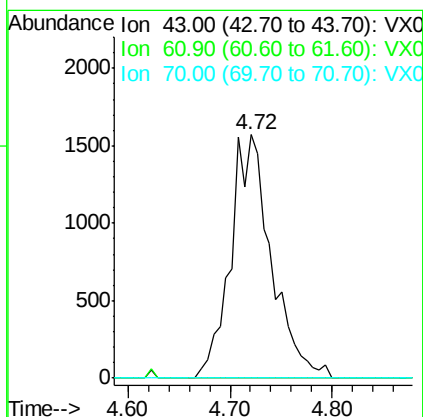
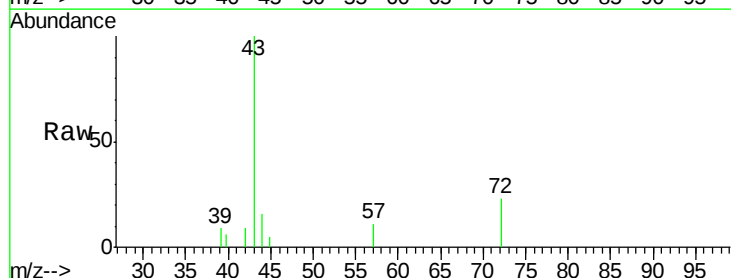
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 DRUM-1-4-B

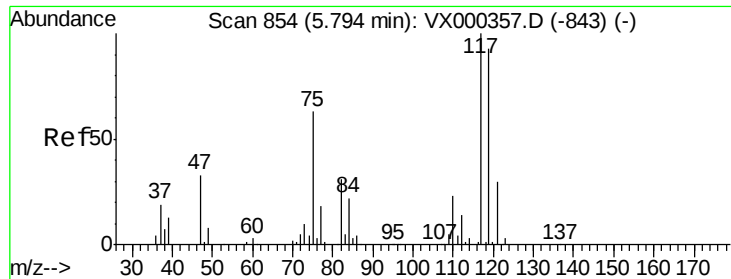
Tgt Ion: 75 Resp: 7430  
 Ion Ratio Lower Upper  
 75 100  
 110 10.1 17.9 53.7#  
 77 0.0 24.0 36.0#



#37  
 Ethyl Acetate  
 Concen: 2.09 ug/l  
 RT: 4.72 min Scan# 678  
 Delta R.T. -0.15 min  
 Lab File: VX000401.D  
 Acq: 22 Mar 2018 13:06

Tgt Ion: 43 Resp: 4334  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 11.1 16.7#  
 70 0.0 7.7 11.5#





#38

Carbon Tetrachloride

Concen: 5.74 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.12 min

Lab File: VX000401.D

Acq: 22 Mar 2018 13:06

Instrument :

MSVOA\_X

ClientSampleId :

DRUM-1-4-B

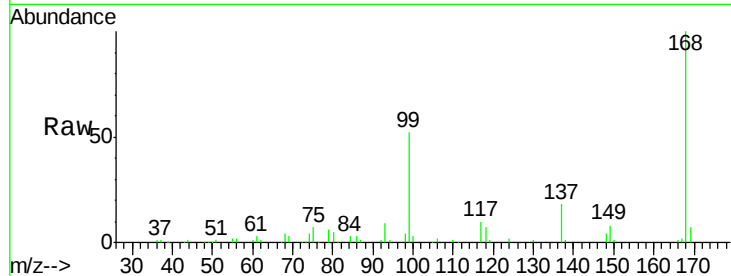
Tgt Ion:117 Resp: 9143

Ion Ratio Lower Upper

117 100

119 6.1 77.4 116.2#

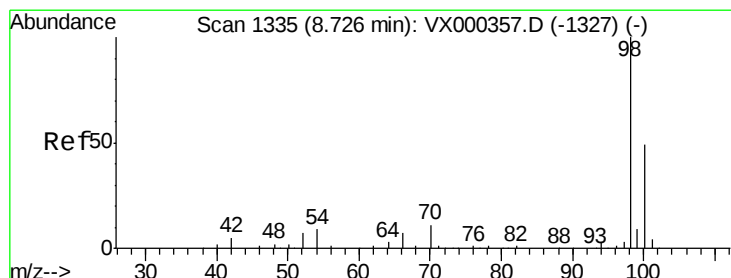
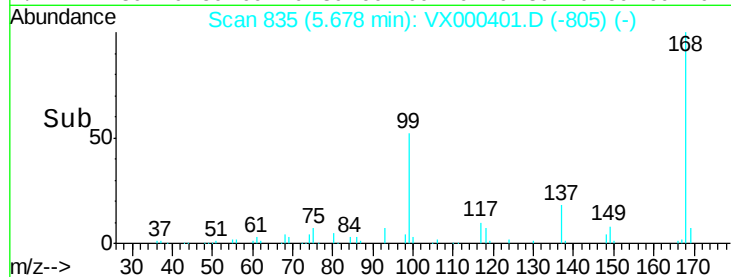
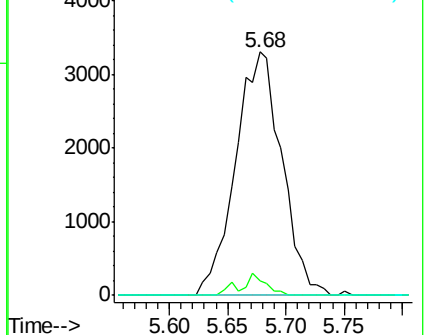
121 0.0 24.8 37.2#



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



#50

Toluene-d8

Concen: 48.28 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VX000401.D

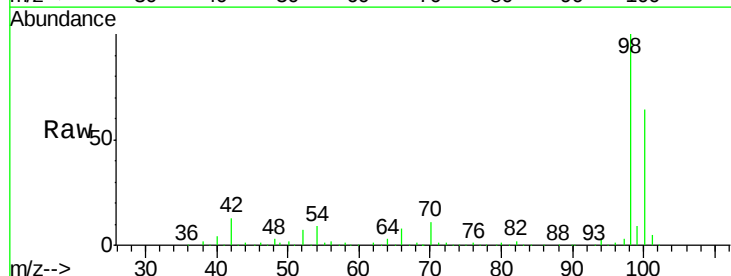
Acq: 22 Mar 2018 13:06

Tgt Ion: 98 Resp: 204332

Ion Ratio Lower Upper

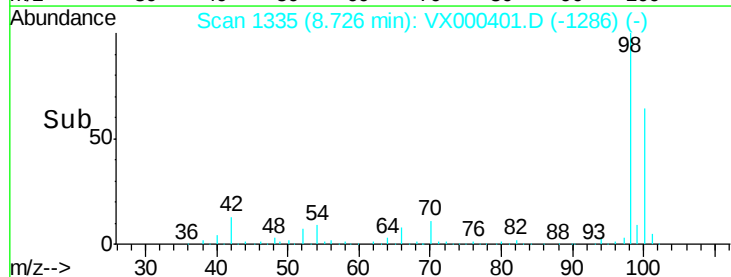
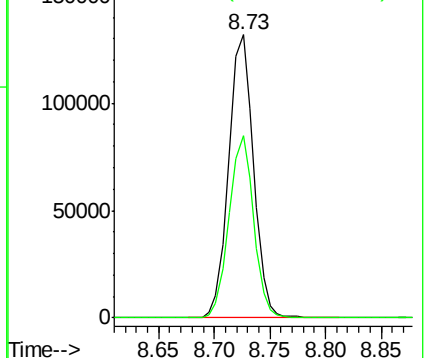
98 100

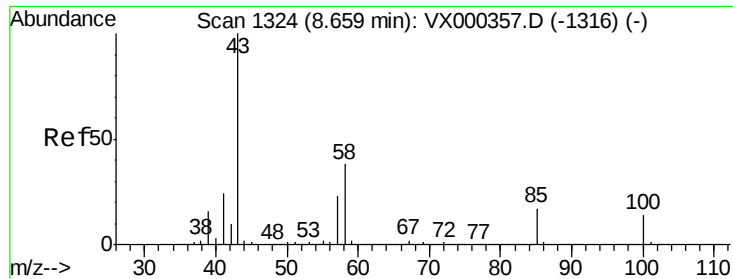
100 63.9 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.35 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.01 min

Lab File: VX000401.D

Acq: 22 Mar 2018 13:06

Instrument :

MSVOA\_X

ClientSampled :

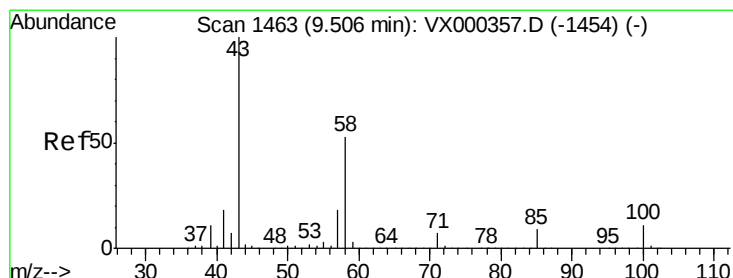
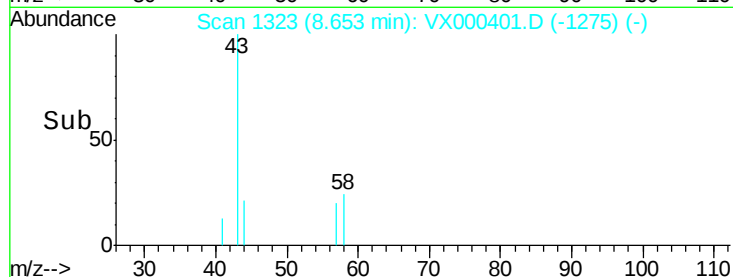
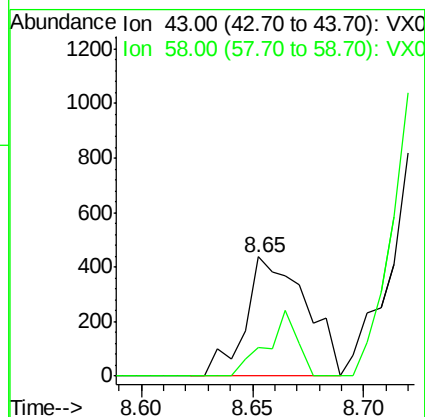
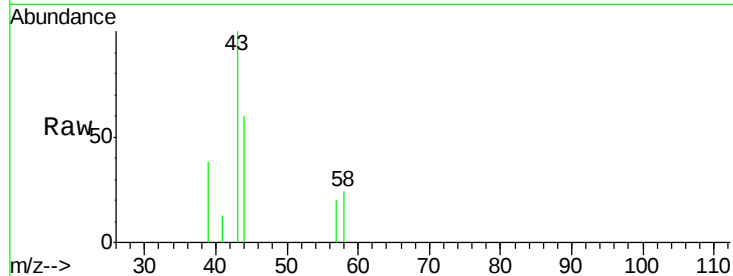
DRUM-1-4-B

Tgt Ion: 43 Resp: 827

Ion Ratio Lower Upper

43 100

58 27.7 30.3 45.5#



#59

2-Hexanone

Concen: 0.35 ug/l

RT: 9.51 min Scan# 1464

Delta R.T. 0.01 min

Lab File: VX000401.D

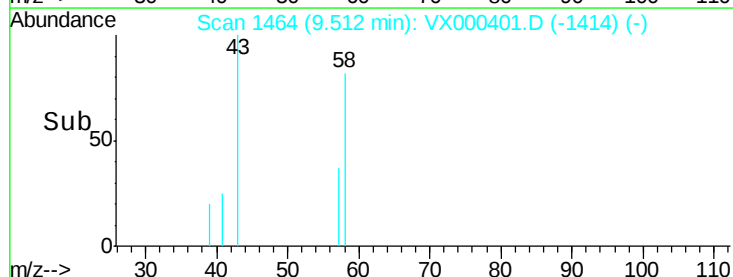
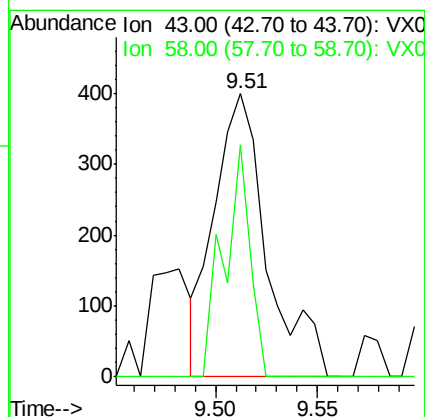
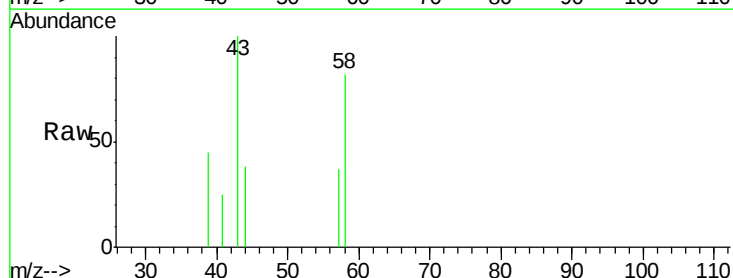
Acq: 22 Mar 2018 13:06

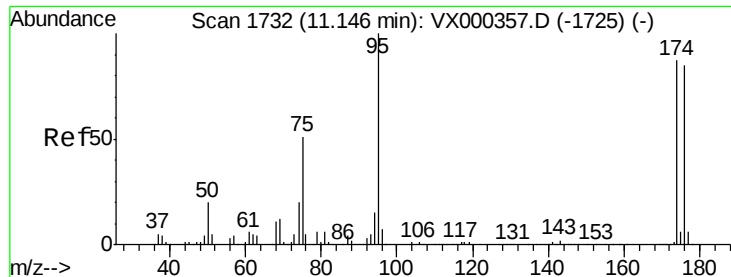
Tgt Ion: 43 Resp: 717

Ion Ratio Lower Upper

43 100

58 40.4 26.6 79.7





#62

4-Bromofluorobenzene

Concen: 38.87 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000401.D

Acq: 22 Mar 2018 13:06

Instrument :

MSVOA\_X

ClientSampleId :

DRUM-1-4-B

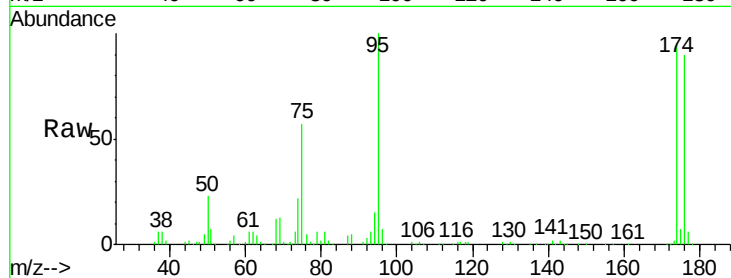
Tgt Ion: 95 Resp: 66706

Ion Ratio Lower Upper

95 100

174 92.8 0.0 173.6

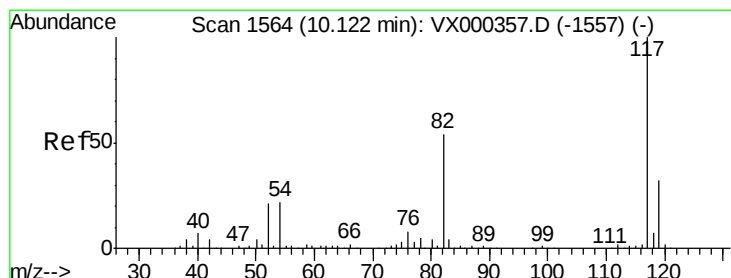
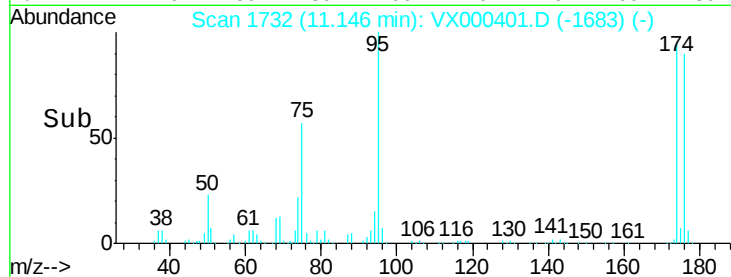
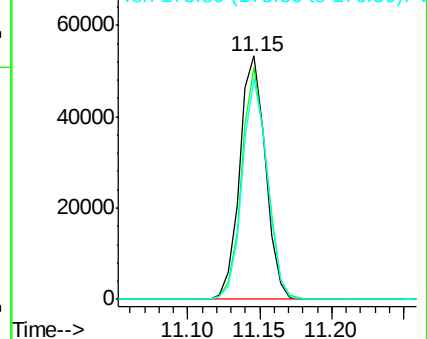
176 87.7 0.0 164.6



Abundance Ion 94.90 (94.60 to 95.60): VX000401.D (-1683) (-)

Ion 173.80 (173.50 to 174.50): VX000401.D (-1683) (-)

Ion 175.80 (175.50 to 176.50): VX000401.D (-1683) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VX000401.D

Acq: 22 Mar 2018 13:06

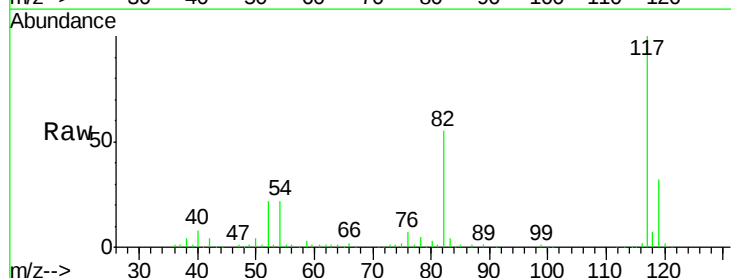
Tgt Ion: 117 Resp: 154314

Ion Ratio Lower Upper

117 100

82 54.5 43.8 65.8

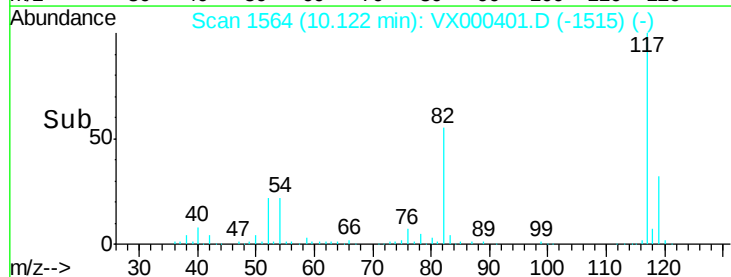
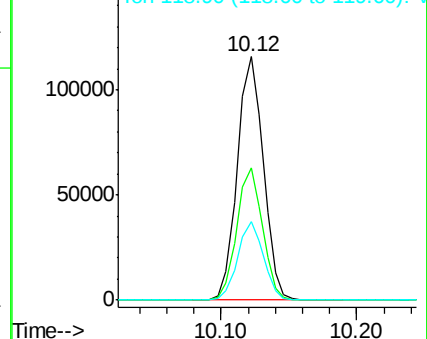
119 32.0 24.9 37.3

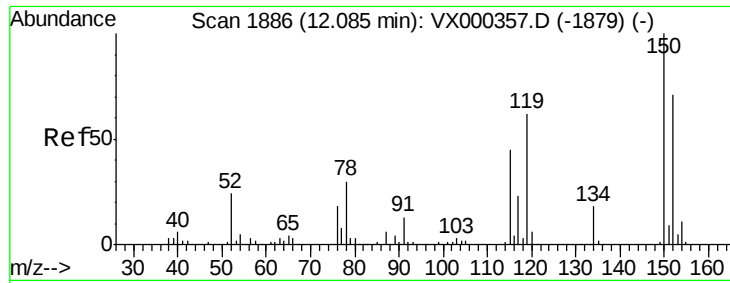


Abundance Ion 116.90 (116.60 to 117.60): VX000401.D (-1515) (-)

Ion 82.00 (81.70 to 82.70): VX000401.D (-1515) (-)

Ion 118.90 (118.60 to 119.60): VX000401.D (-1515) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000401.D

Acq: 22 Mar 2018 13:06

Instrument :

MSVOA\_X

ClientSampleId :

DRUM-1-4-B

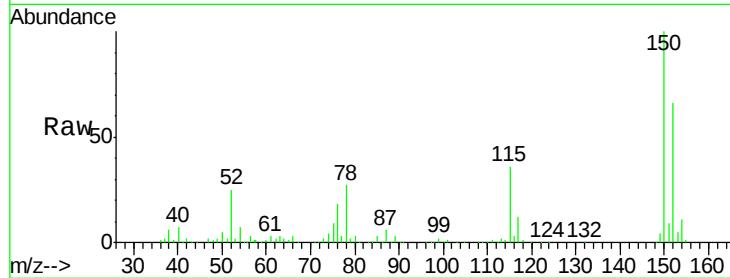
Tgt Ion:152 Resp: 72554

Ion Ratio Lower Upper

152 100

115 54.8 39.8 119.3

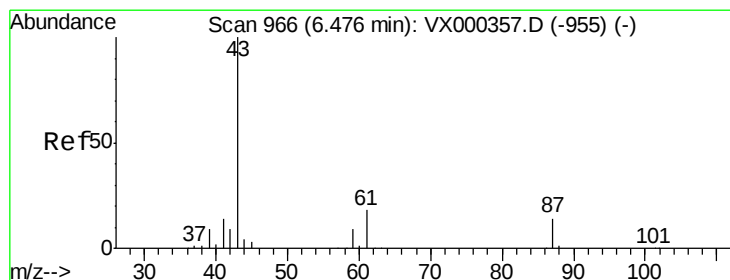
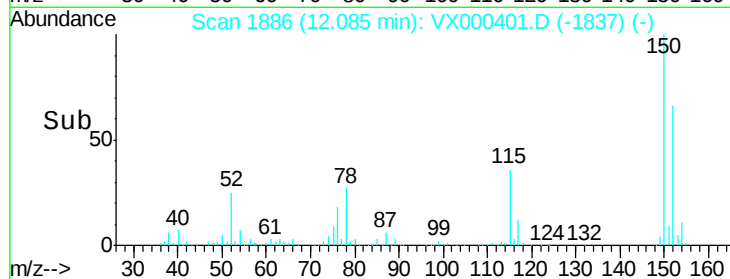
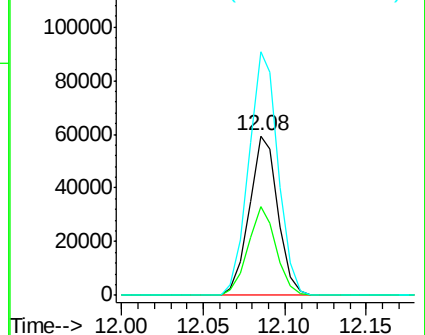
150 156.3 0.0 344.4



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-ethyl acetate

Concen: Below Cal

RT: 6.26 min Scan# 931

Delta R.T. -0.21 min

Lab File: VX000401.D

Acq: 22 Mar 2018 13:06

Tgt Ion: 43 Resp: 42

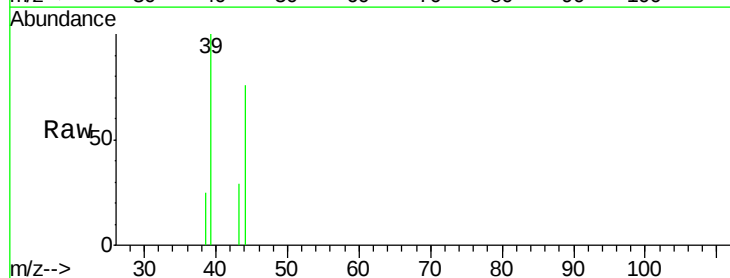
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 0.0 14.4 21.6#

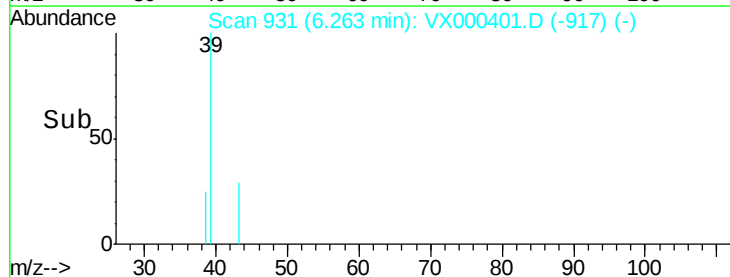
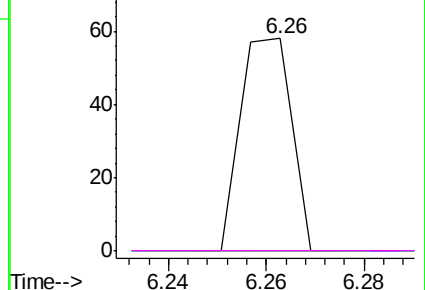


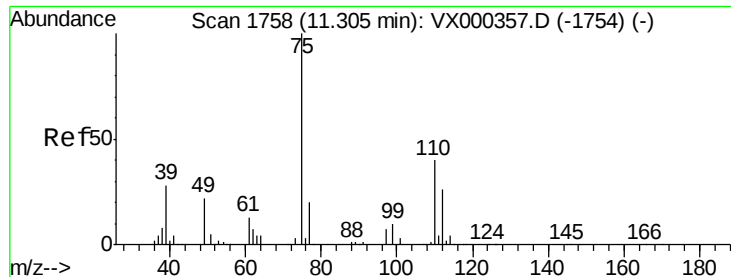
Abundance Ion 43.00 (42.70 to 43.70): VX0

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

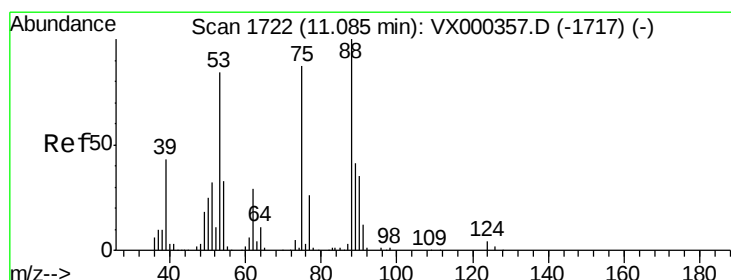
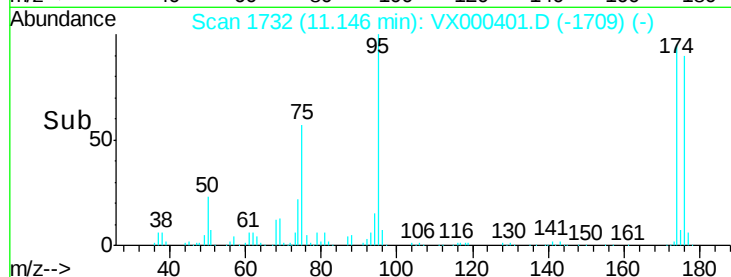
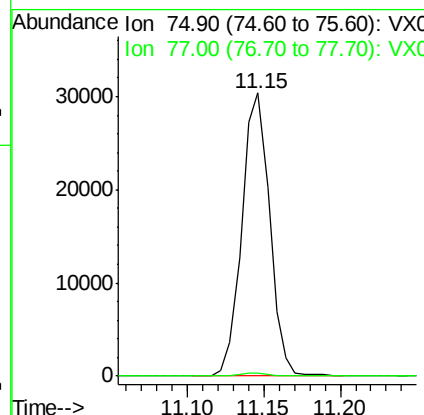
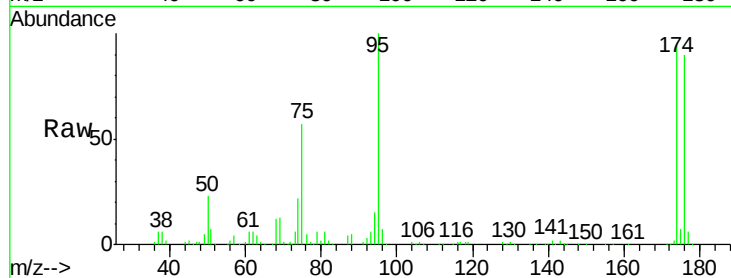




#76  
 1,2,3-Trichloropropane  
 Concen: 24.55 ug/l  
 RT: 11.15 min Scan# 1732  
 Delta R.T. -0.16 min  
 Lab File: VX000401.D  
 Acq: 22 Mar 2018 13:06

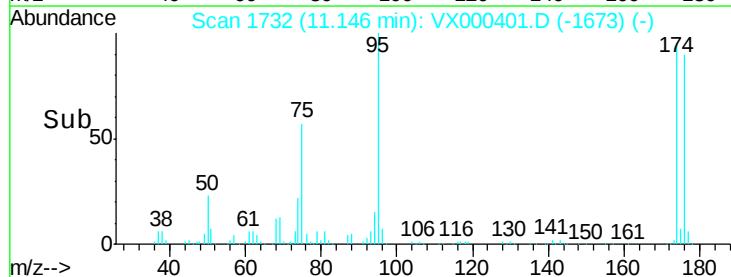
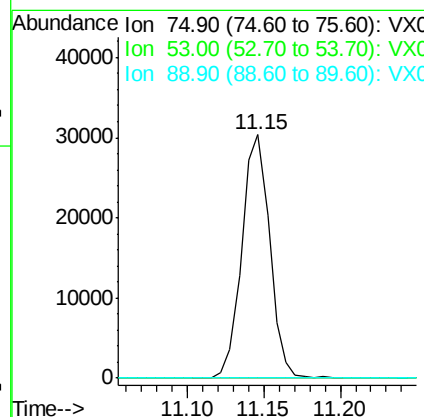
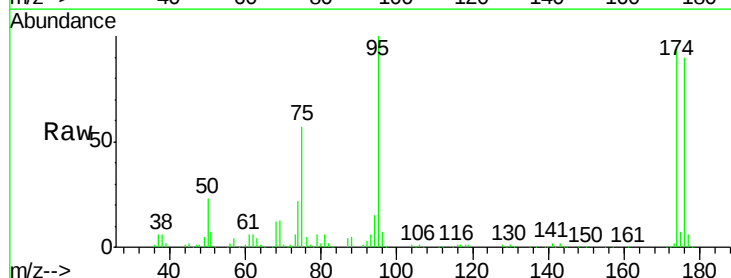
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 DRUM-1-4-B

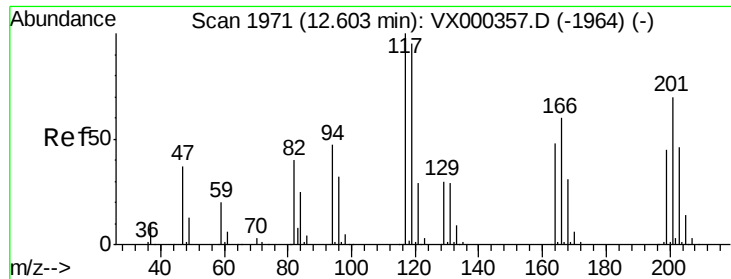
Tgt Ion: 75 Resp: 38281  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 21.4 64.2#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 79.48 ug/l  
 RT: 11.15 min Scan# 1732  
 Delta R.T. 0.06 min  
 Lab File: VX000401.D  
 Acq: 22 Mar 2018 13:06

Tgt Ion: 75 Resp: 38281  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 80.7 121.1#  
 89 0.0 39.4 59.0#





#90

Hexachloroethane

Concen: 0.27 ug/l

RT: 12.77 min Scan# 1998

Delta R.T. 0.16 min

Lab File: VX000401.D

Acq: 22 Mar 2018 13:06

Instrument :

MSVOA\_X

ClientSampleId :

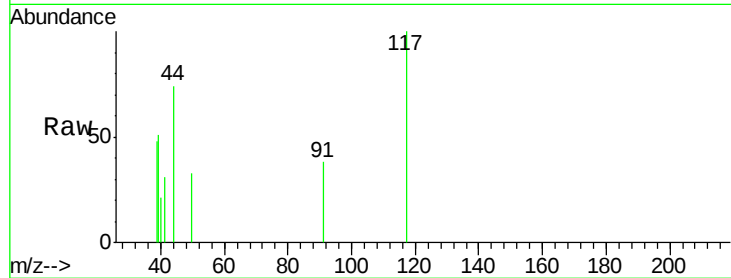
DRUM-1-4-B

Tgt Ion:117 Resp: 193

Ion Ratio Lower Upper

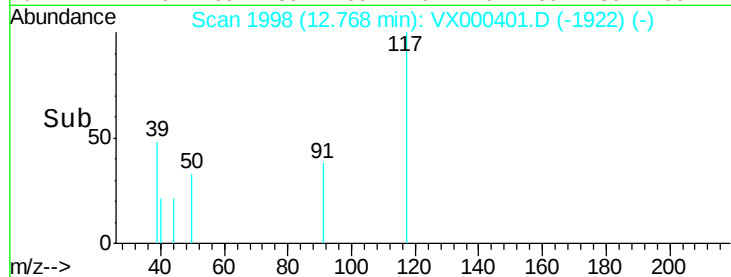
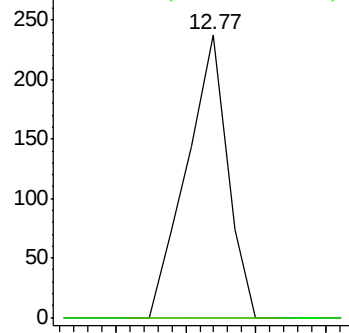
117 100

201 0.0 37.9 113.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



Time-->