

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071318\  
 Data File : VX003385.D  
 Acq On : 14 Jul 2018 02:00  
 Operator : JC/MD  
 Sample : J3980-08  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP-E-MH-D

Quant Time: Jul 14 03:51:23 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071318W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 13 17:01:02 2018  
 Response via : Initial Calibration

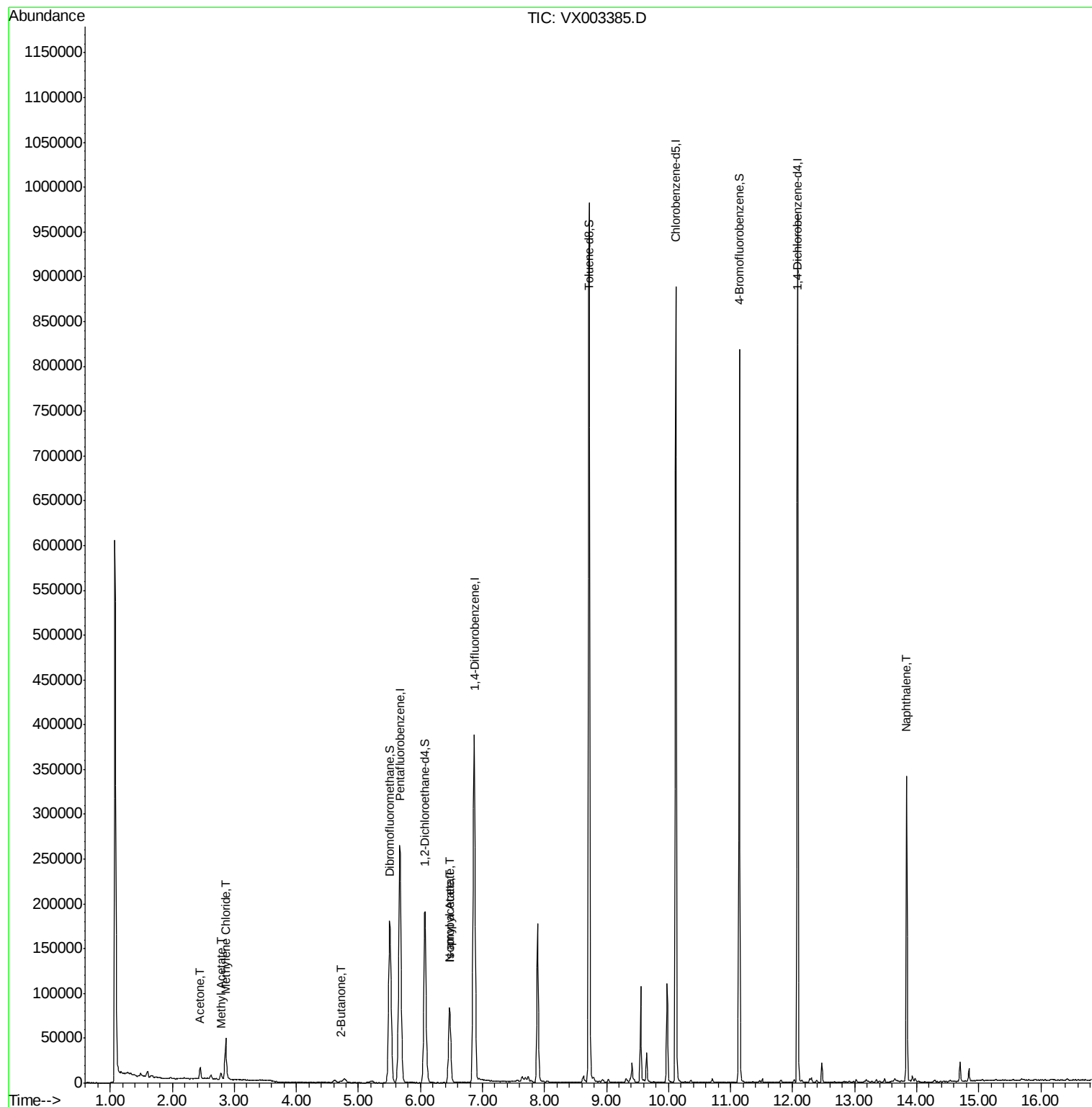
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 5.67  | 168  | 269809   | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.87  | 114  | 403597   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 10.12 | 117  | 402255   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.08 | 152  | 206844   | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 181976   | 61.99 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 123.98% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 156780   | 52.78 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 105.56% |          |
| 50) Toluene-d8              | 8.72  | 98   | 588018   | 60.71 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 121.42% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 199828   | 48.31 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 96.62%  |          |
| Target Compounds            |       |      |          |       |         |          |
| 16) Acetone                 | 2.45  | 43   | 14159    | 9.35  | ug/l    | 97       |
| 18) Methyl Acetate          | 2.78  | 43   | 8026     | 1.71  | ug/l    | 96       |
| 20) Methylene Chloride      | 2.86  | 84   | 21293    | 5.43  | ug/l    | 93       |
| 25) 2-Butanone              | 4.71  | 43   | 2455     | 1.05  | ug/l    | 95       |
| 43) Isopropyl Acetate       | 6.47  | 43   | 109977   | 14.94 | ug/l    | 96       |
| 74) N-amyl acetate          | 6.47  | 43   | 109977   | 16.59 | ug/l #  | 96       |
| 95) Naphthalene             | 13.83 | 128  | 215630   | 14.89 | ug/l    | 100      |

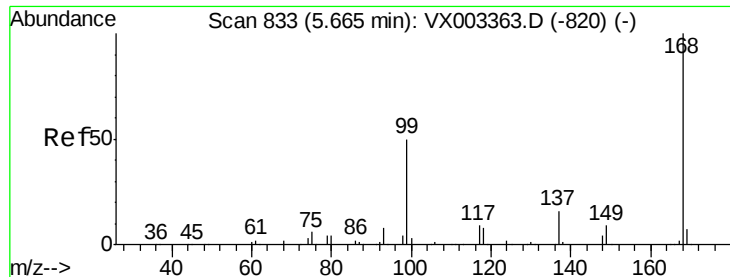
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX071318\  
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Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-E-MH-D

Quant Time: Jul 14 03:51:23 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X071318W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 13 17:01:02 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003385.D

Acq: 14 Jul 2018 02:00

Instrument :

MSVOA\_X

ClientSampled :

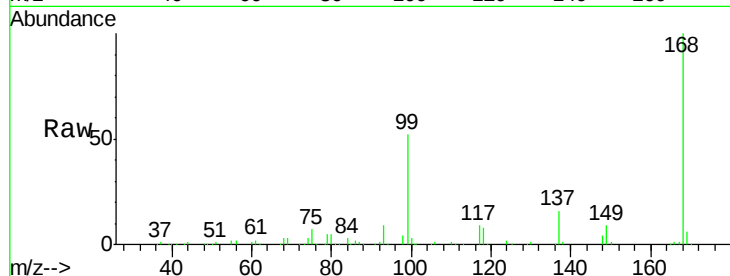
TP-E-MH-D

Tot Ion:168 Resp: 269809

Ion Ratio Lower Upper

168 100

99 51.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

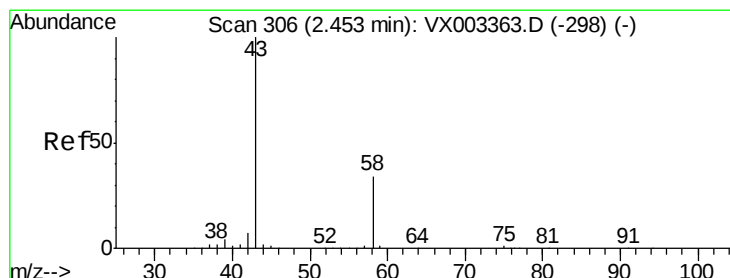
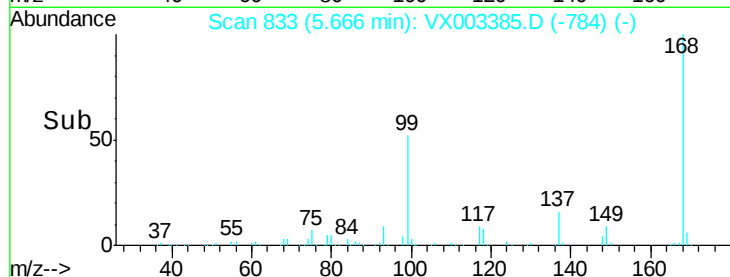
40000

20000

0

Time-->

5.60 5.70 5.80



#16

Acetone

Concen: 9.35 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX003385.D

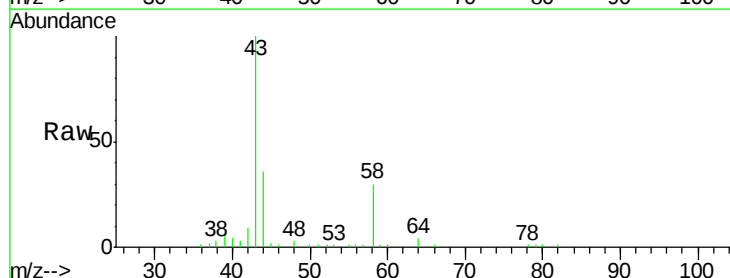
Acq: 14 Jul 2018 02:00

Tgt Ion: 43 Resp: 14159

Ion Ratio Lower Upper

43 100

58 29.4 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

8000

6000

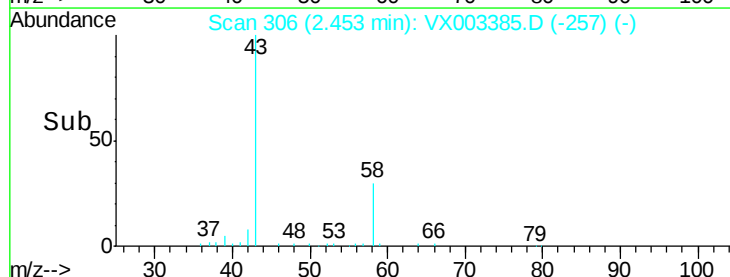
4000

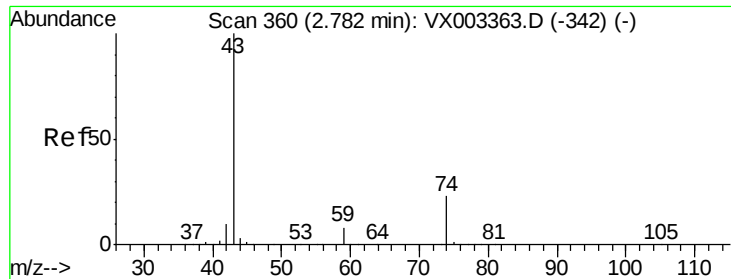
2000

0

Time-->

2.35 2.40 2.45 2.50

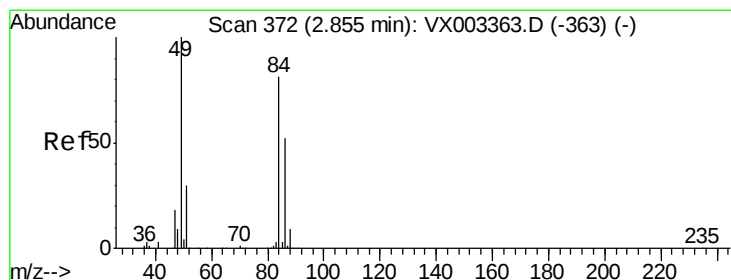
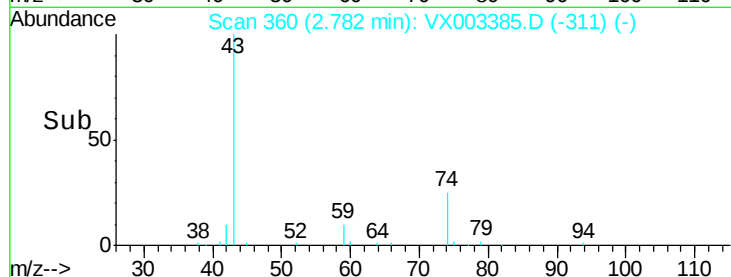
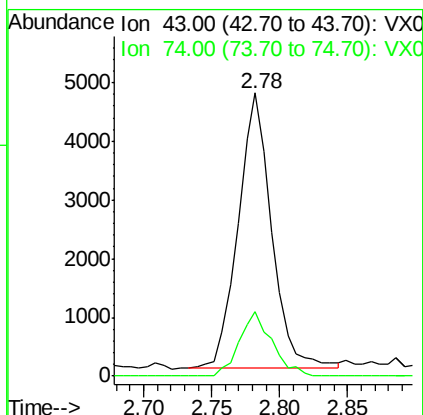
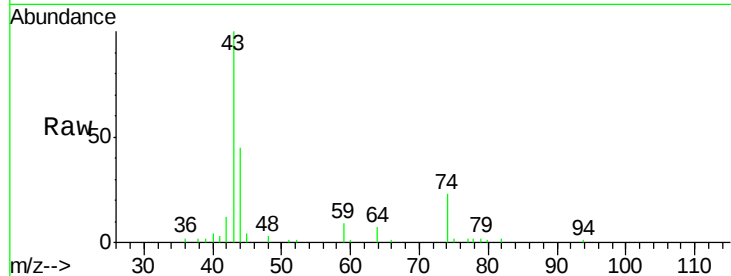




#18  
Methvl Acetate  
Concen: 1.71 ug/l  
RT: 2.78 min Scan# 360  
Delta R.T. 0.00 min  
Lab File: VX003385.D  
Acq: 14 Jul 2018 02:00

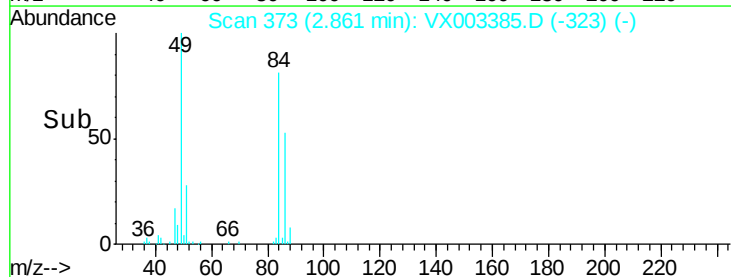
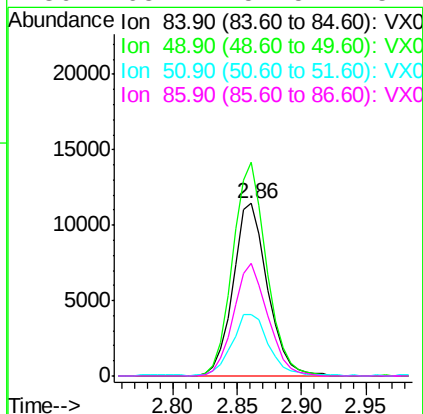
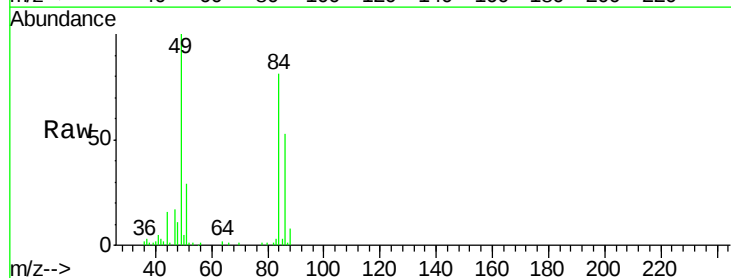
Instrument :  
MSVOA\_X  
ClientSampled :  
TP-E-MH-D

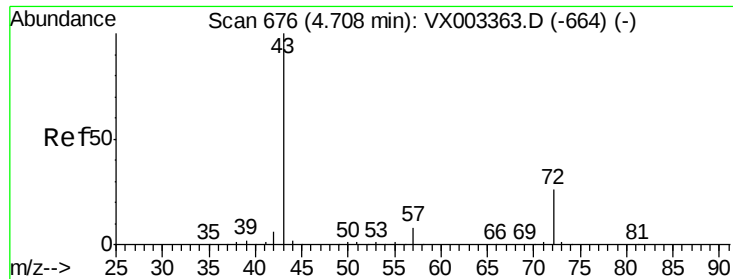
Tot Ion: 43 Resp: 8026  
Ion Ratio Lower Upper  
43 100  
74 22.9 16.7 25.1



#20  
Methylene Chloride  
Concen: 5.43 ug/l  
RT: 2.86 min Scan# 373  
Delta R.T. 0.01 min  
Lab File: VX003385.D  
Acq: 14 Jul 2018 02:00

Tgt Ion: 84 Resp: 21293  
Ion Ratio Lower Upper  
84 100  
49 123.8 107.8 161.6  
51 35.5 32.8 49.2  
86 65.2 52.5 78.7





#25

2-Butanone

Concen: 1.05 ug/l

RT: 4.71 min Scan# 676

Delta R.T. 0.00 min

Lab File: VX003385.D

Acq: 14 Jul 2018 02:00

Instrument :

MSVOA\_X

ClientSampled :

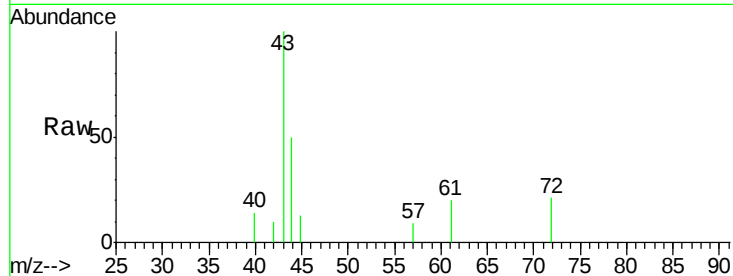
TP-E-MH-D

Tot Ion: 43 Resp: 2455

Ion Ratio Lower Upper

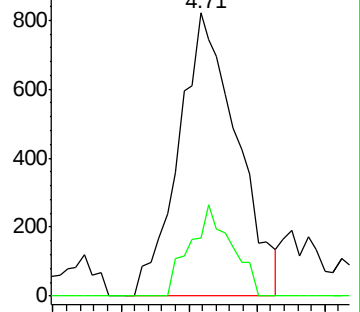
43 100

72 20.6 18.5 27.7

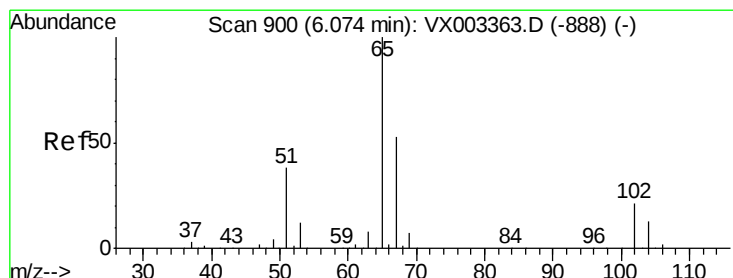
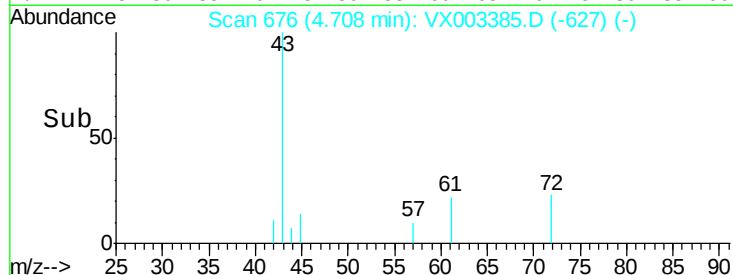


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time--> 4.60 4.65 4.70 4.75 4.80



#33

1,2-Dichloroethane-d4

Concen: 61.99 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX003385.D

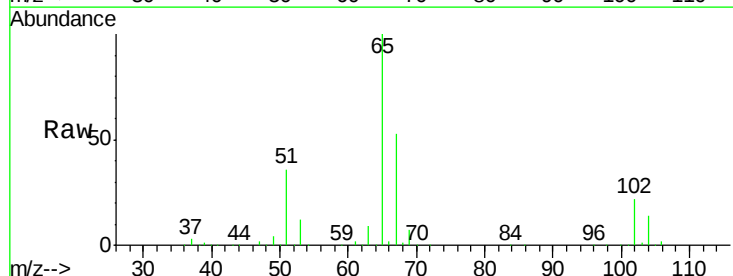
Acq: 14 Jul 2018 02:00

Tgt Ion: 65 Resp: 181976

Ion Ratio Lower Upper

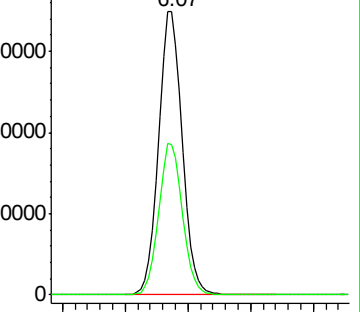
65 100

67 53.7 0.0 102.6

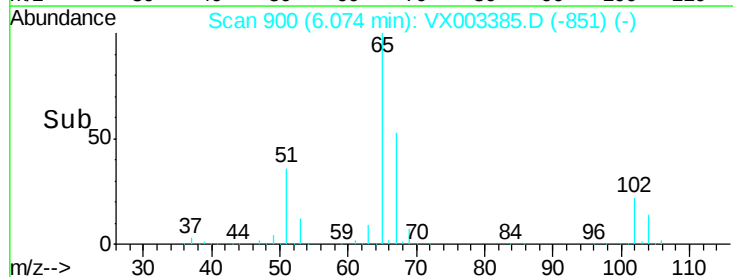


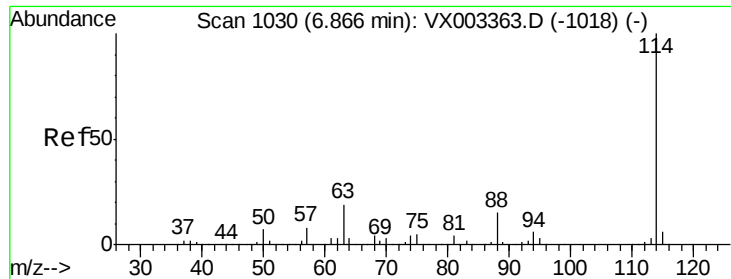
Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



Time--> 5.90 6.00 6.10 6.20 6.30

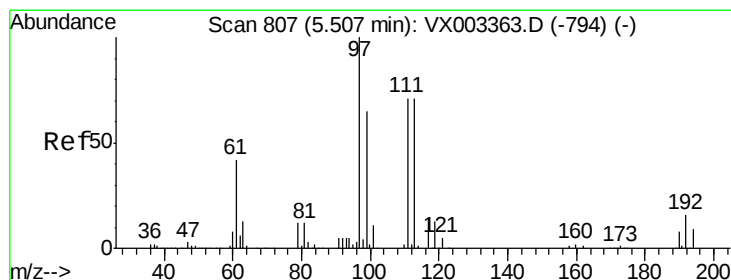
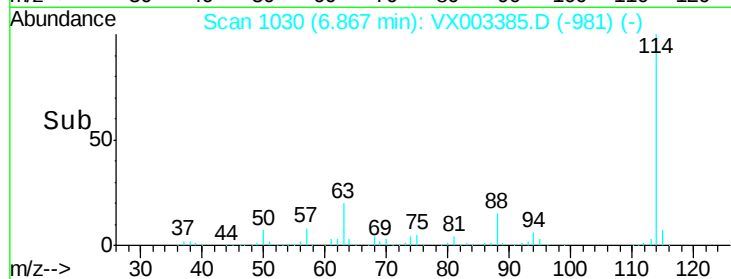
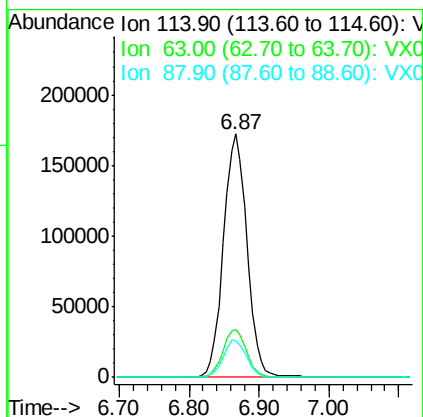
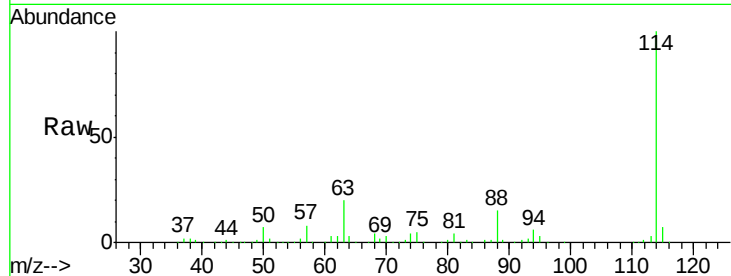




#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.00 min  
 Lab File: VX003385.D  
 Acq: 14 Jul 2018 02:00

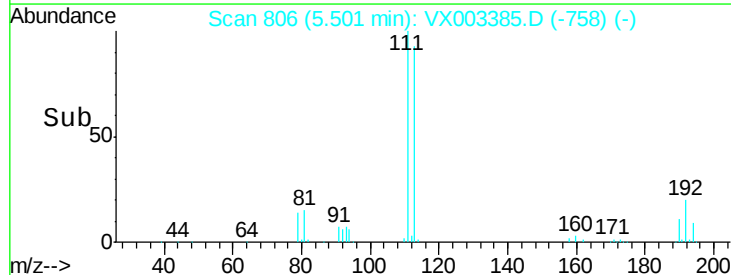
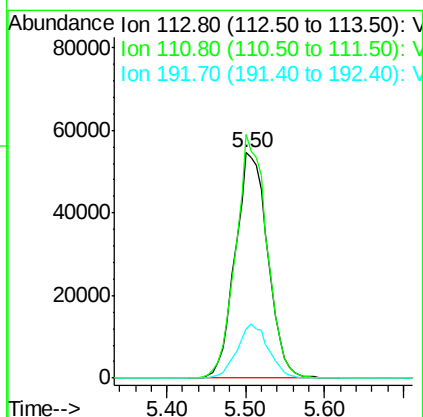
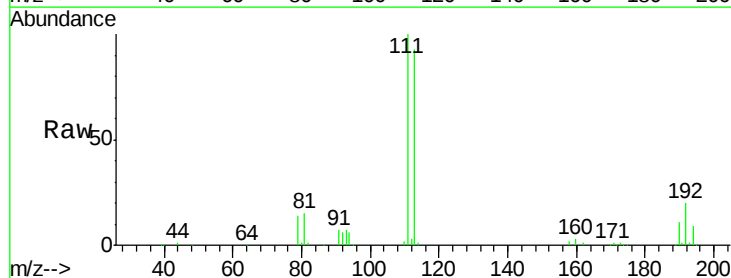
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP-E-MH-D

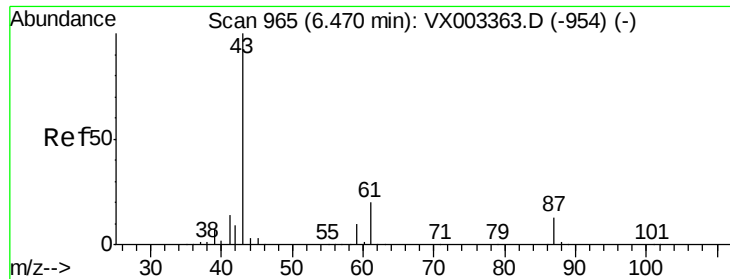
Tot Ion:114 Resp: 403597  
 Ion Ratio Lower Upper  
 114 100  
 63 19.8 0.0 41.4  
 88 14.8 0.0 30.0



#35  
 Dibromofluoromethane  
 Concen: 52.78 ug/l  
 RT: 5.50 min Scan# 806  
 Delta R.T. -0.01 min  
 Lab File: VX003385.D  
 Acq: 14 Jul 2018 02:00

Tgt Ion:113 Resp: 156780  
 Ion Ratio Lower Upper  
 113 100  
 111 103.4 81.4 122.0  
 192 23.1 19.1 28.7



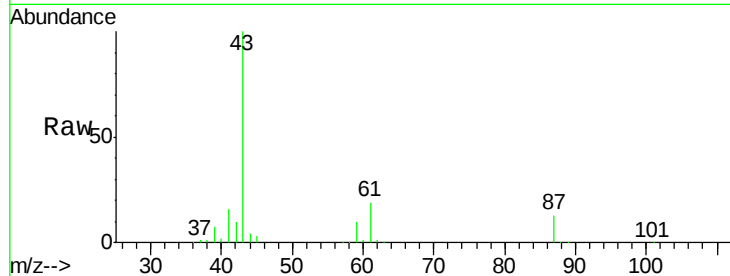


#43

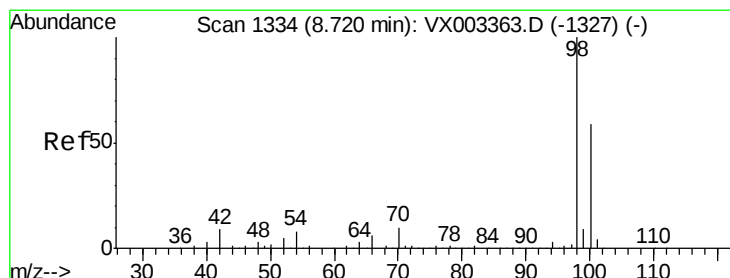
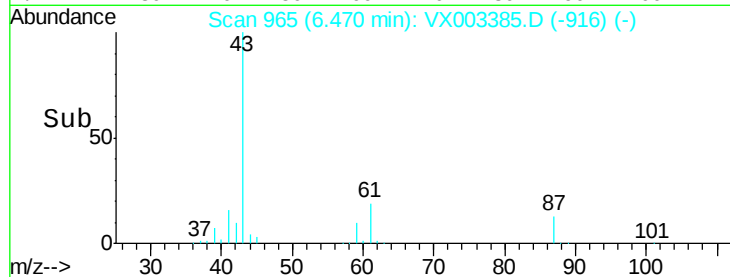
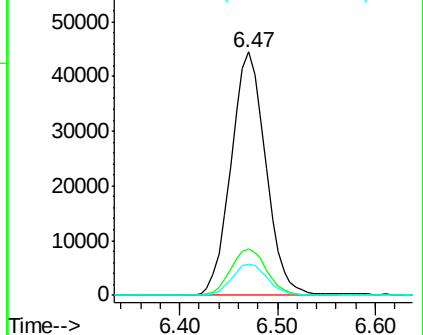
Isopropyl Acetate  
 Concen: 14.94 ug/l  
 RT: 6.47 min Scan# 965  
 Delta R.T. 0.00 min  
 Lab File: VX003385.D  
 Acq: 14 Jul 2018 02:00

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP-E-MH-D

Tot Ion: 43 Resp: 109977  
 Ion Ratio Lower Upper  
 43 100  
 61 19.8 14.4 21.6  
 87 13.2 9.5 14.3



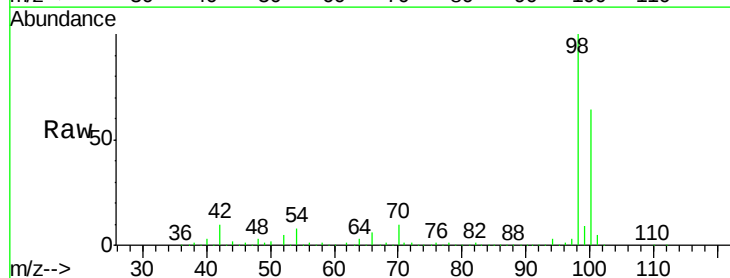
Abundance Ion 43.00 (42.70 to 43.70): VX0  
 Ion 61.00 (60.70 to 61.70): VX0  
 Ion 87.00 (86.70 to 87.70): VX0



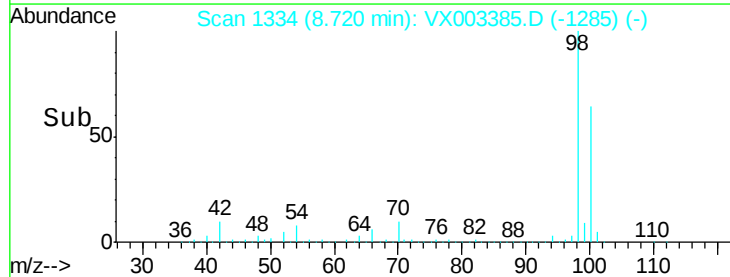
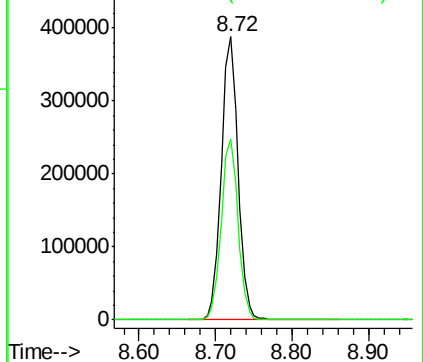
#50

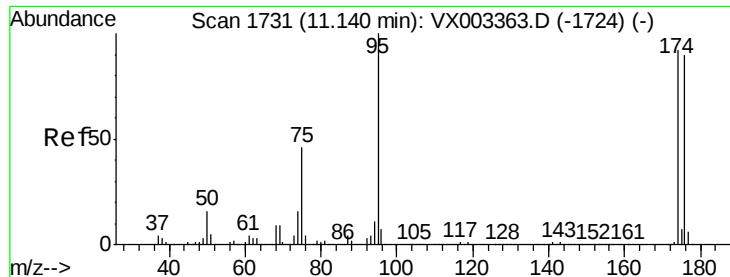
Toluene-d8  
 Concen: 60.71 ug/l  
 RT: 8.72 min Scan# 1334  
 Delta R.T. 0.00 min  
 Lab File: VX003385.D  
 Acq: 14 Jul 2018 02:00

Tgt Ion: 98 Resp: 588018  
 Ion Ratio Lower Upper  
 98 100  
 100 64.2 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0  
 Ion 100.00 (99.70 to 100.70): VX0

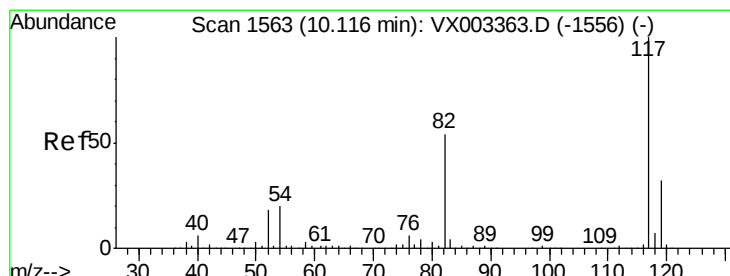
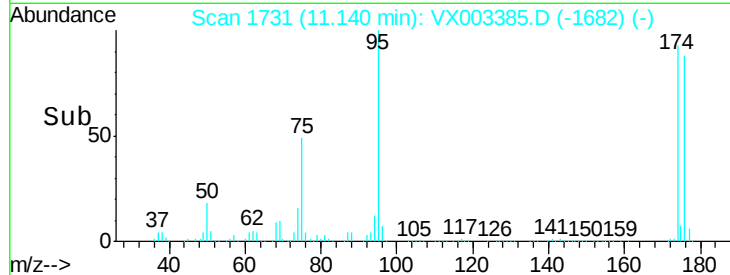
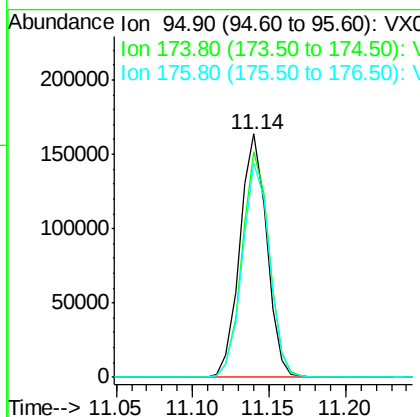
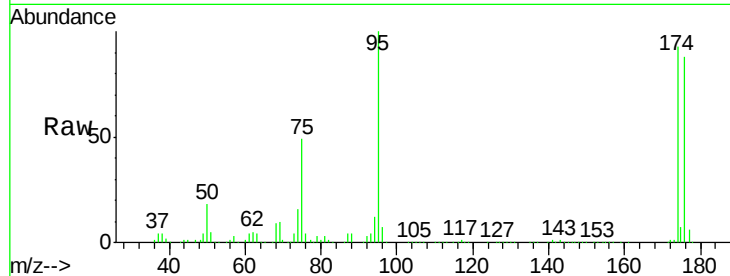




#62  
4-Bromofluorobenzene  
Concen: 48.31 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. 0.00 min  
Lab File: VX003385.D  
Acq: 14 Jul 2018 02:00

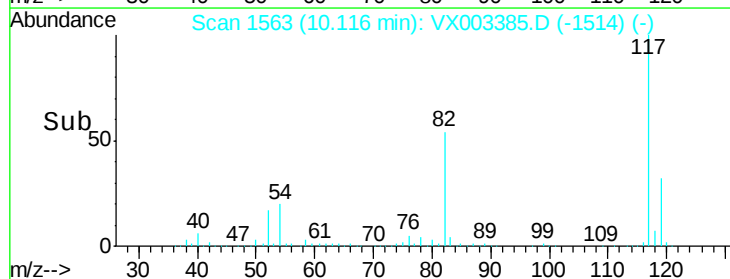
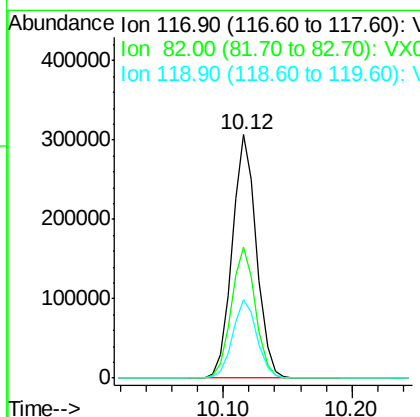
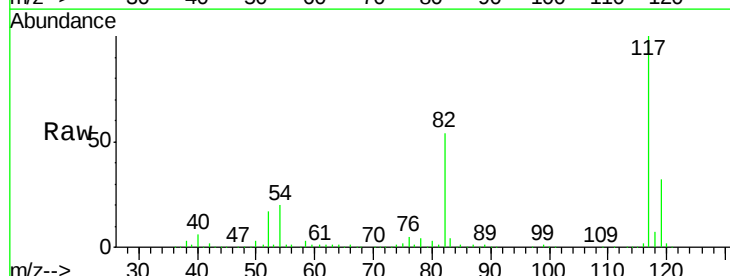
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-E-MH-D

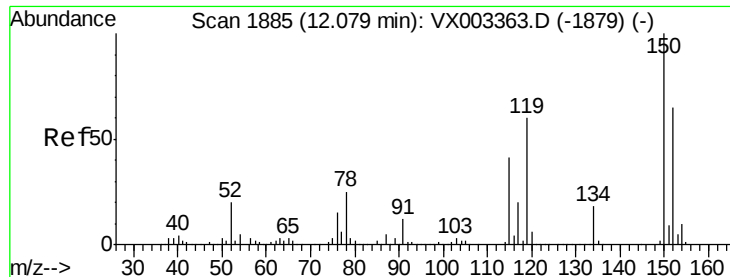
Tot Ion: 95 Resp: 199828  
Ion Ratio Lower Upper  
95 100  
174 93.4 0.0 187.4  
176 89.3 0.0 181.0



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. 0.00 min  
Lab File: VX003385.D  
Acq: 14 Jul 2018 02:00

Tgt Ion: 117 Resp: 402255  
Ion Ratio Lower Upper  
117 100  
82 53.9 45.0 67.4  
119 32.2 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003385.D

Acq: 14 Jul 2018 02:00

Instrument :

MSVOA\_X

ClientSampleId :

TP-E-MH-D

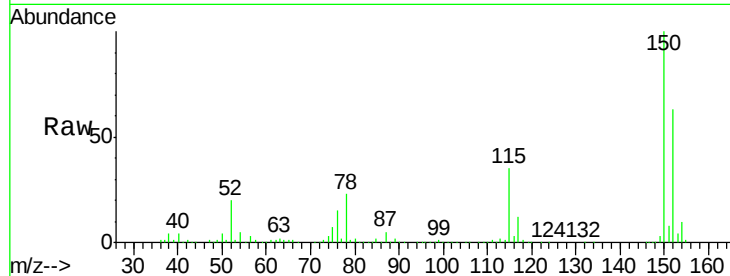
Tot Ion:152 Resp: 206844

Ion Ratio Lower Upper

152 100

115 54.5 40.1 120.2

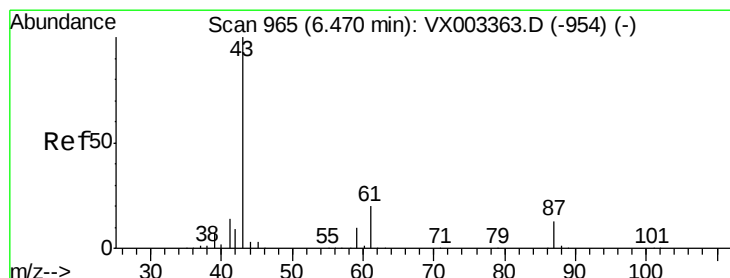
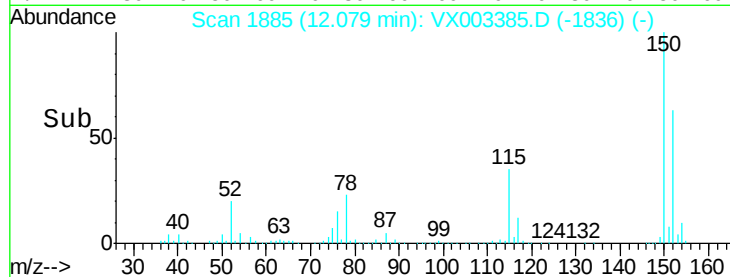
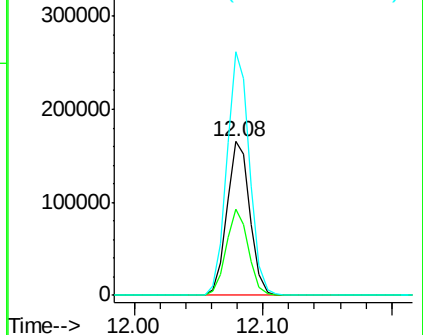
150 156.7 0.0 347.2



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-ethyl acetate

Concen: 16.59 ug/l

RT: 6.47 min Scan# 965

Delta R.T. 0.00 min

Lab File: VX003385.D

Acq: 14 Jul 2018 02:00

Tgt Ion: 43 Resp: 109977

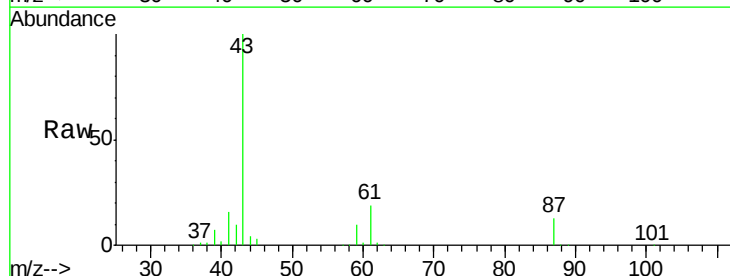
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0#

61 19.8 14.4 21.6

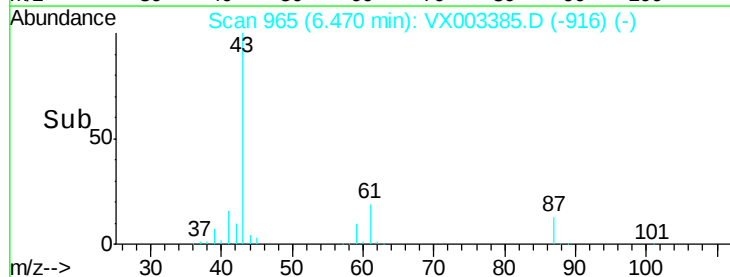
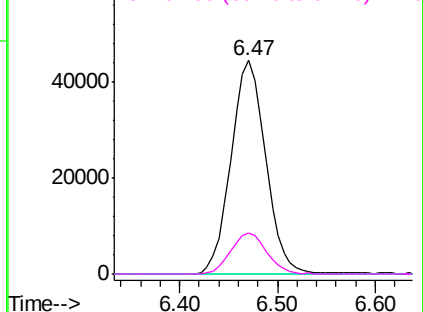


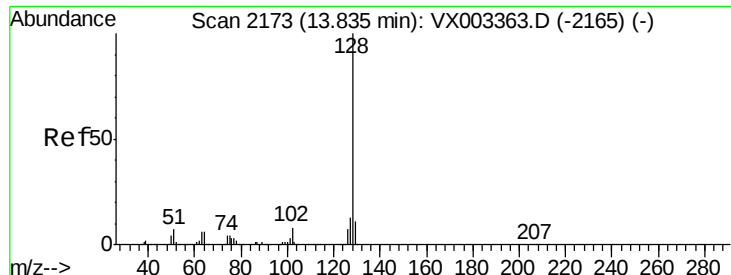
Abundance Ion 43.00 (42.70 to 43.70): VX0

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





#95  
 Naphthalene  
 Concen: 14.89 ug/l  
 RT: 13.83 min Scan# 2173  
 Delta R.T. 0.00 min  
 Lab File: VX003385.D  
 Acq: 14 Jul 2018 02:00

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP-E-MH-D

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.2  | 10.4  | 15.6  |
| 129     | 10.7  | 8.6   | 13.0  |

