

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121818\  
 Data File : VX006600.D  
 Acq On : 18 Dec 2018 16:18  
 Operator : JC/MD  
 Sample : J6462-06DL 50X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 OILY-WATERDL

Quant Time: Dec 19 06:00:14 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121818W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 18 13:23:17 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 702704   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 1091078  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 1002844  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 480330   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 372166   | 49.14 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.28% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 328507   | 47.61 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.22% |          |
| 50) Toluene-d8              | 8.71  | 98   | 1289489  | 49.57 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.14% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 474530   | 49.81 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.62% |          |

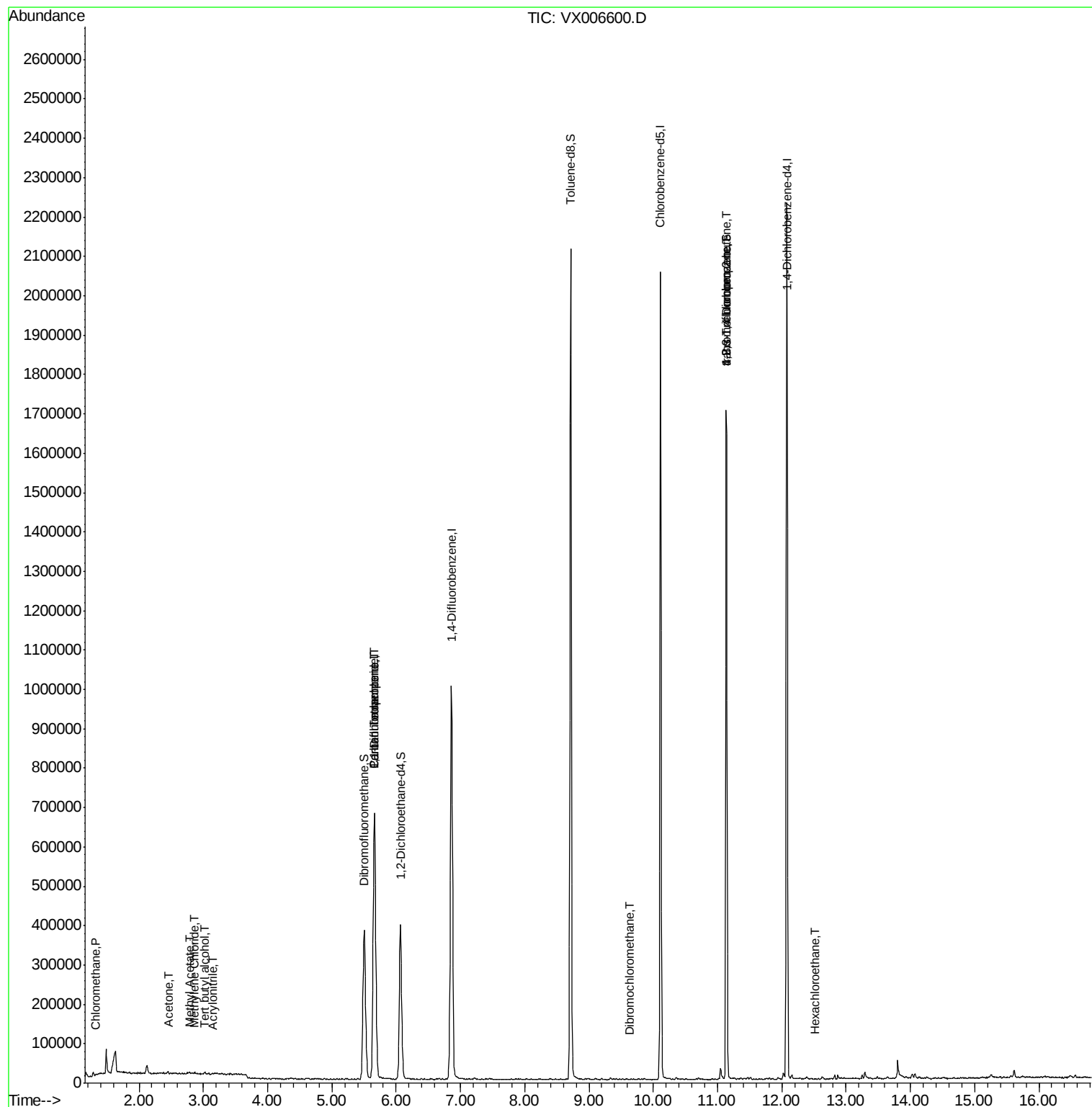
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.33  | 50   | 1436     | 0.207     | ug/l # | 82     |
| 5) Bromomethane                | 1.64  | 94   | 3149     | Below Cal |        | 86     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 2511     | 1.486     | ug/l # | 86     |
| 15) Acrylonitrile              | 3.15  | 53   | 912      | 0.243     | ug/l # | 17     |
| 16) Acetone                    | 2.45  | 43   | 7006     | 2.014     | ug/l   | 97     |
| 18) Methyl Acetate             | 2.78  | 43   | 5936     | 0.580     | ug/l # | 85     |
| 20) Methylene Chloride         | 2.86  | 84   | 1781     | 0.248     | ug/l # | 74     |
| 28) Bromochloromethane         | 5.01  | 49   | 198      | Below Cal | #      | 18     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 47501    | 5.256     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 65505    | 7.459     | ug/l # | 17     |
| 49) 1,4-Dioxane                | 7.73  | 88   | 367      | Below Cal | #      | 27     |
| 60) Dibromochloromethane       | 9.63  | 129  | 91       | 2.336     | ug/l   | 92     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 218675   | 25.975    | ug/l # | 38     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 218675   | 72.474    | ug/l # | 15     |
| 90) Hexachloroethane           | 12.52 | 117  | 22       | 3.298     | ug/l   | 98     |

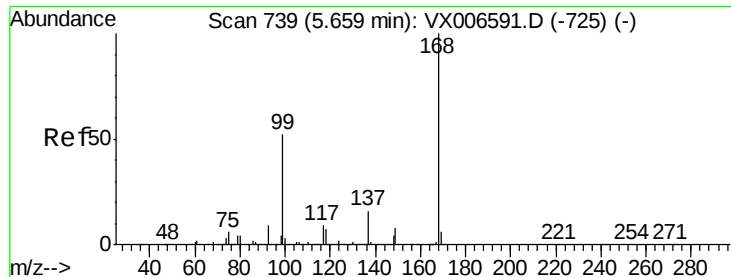
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121818\  
Data File : VX006600.D  
Acq On : 18 Dec 2018 16:18  
Operator : JC/MD  
Sample : J6462-06DL 50X  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleID :  
OILY-WATERDL

Quant Time: Dec 19 06:00:14 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X121818W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 18 13:23:17 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX006600.D

Acq: 18 Dec 2018 16:18

Instrument :

MSVOA\_X

ClientSampleId :

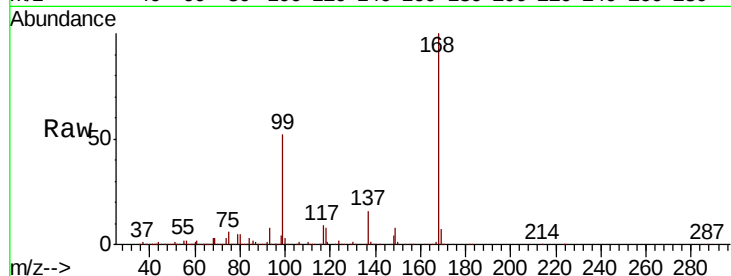
OILY-WATERDL

Tot Ion:168 Resp: 702704

Ion Ratio Lower Upper

168 100

99 52.4 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

100000

50000

0

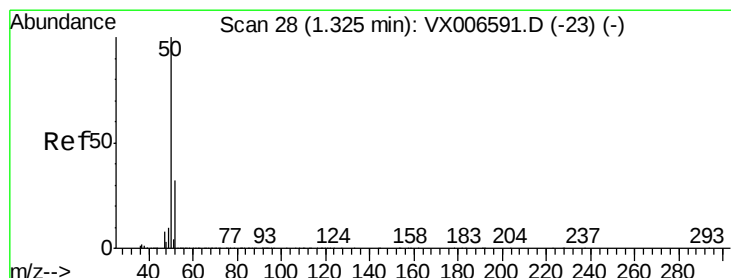
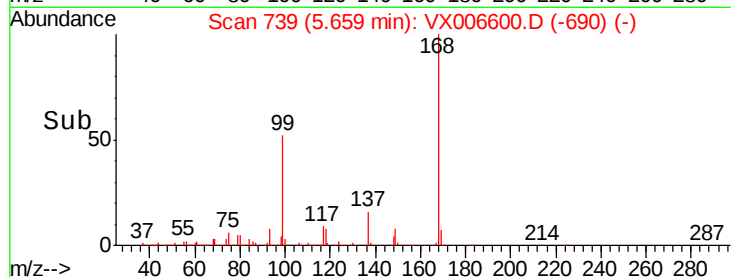
5.50

5.60

5.70

5.80

Time-->



#3

Chloromethane

Concen: 0.207 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006600.D

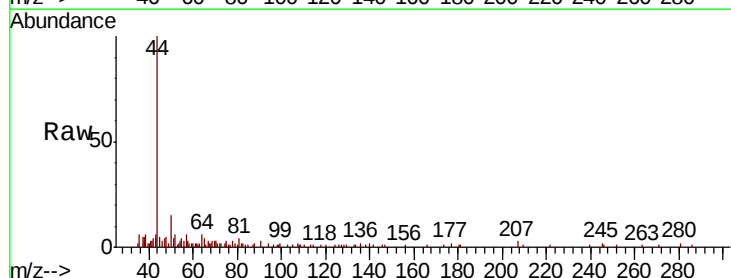
Acq: 18 Dec 2018 16:18

Tgt Ion: 50 Resp: 1436

Ion Ratio Lower Upper

50 100

52 21.7 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1000

800

600

400

200

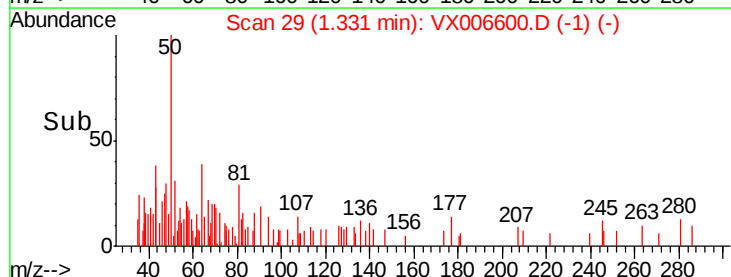
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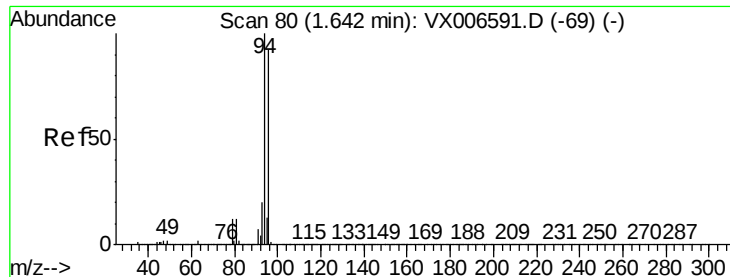
1.30

1.35

1.40

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006600.D

Acq: 18 Dec 2018 16:18

Instrument :

MSVOA\_X

ClientSampleId :

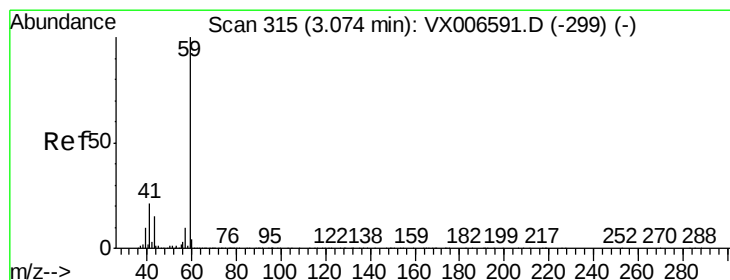
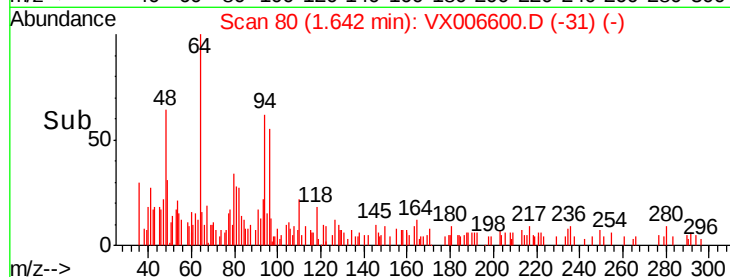
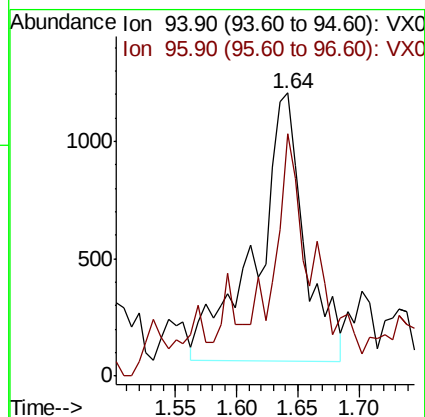
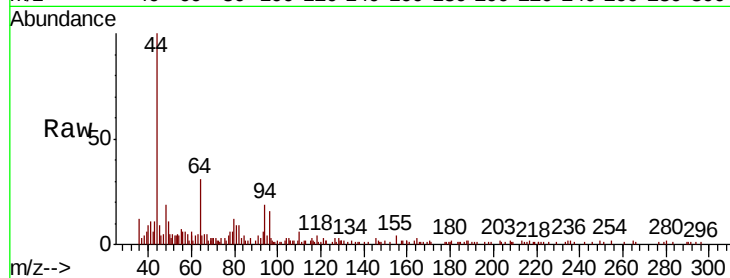
OILY-WATERDL

Tot Ion: 94 Resp: 3149

Ion Ratio Lower Upper

94 100

96 79.3 74.5 111.7



#11

Tert butyl alcohol

Concen: 1.486 ug/l

RT: 3.01 min Scan# 304

Delta R.T. -0.07 min

Lab File: VX006600.D

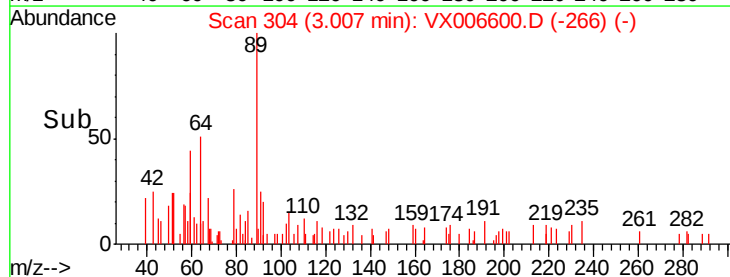
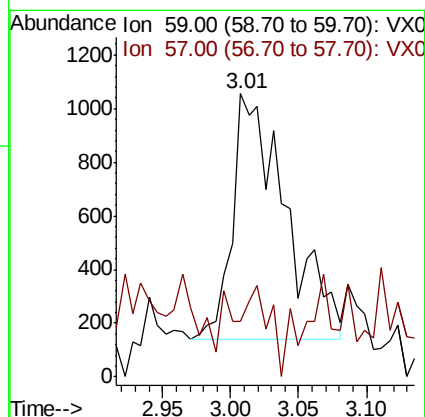
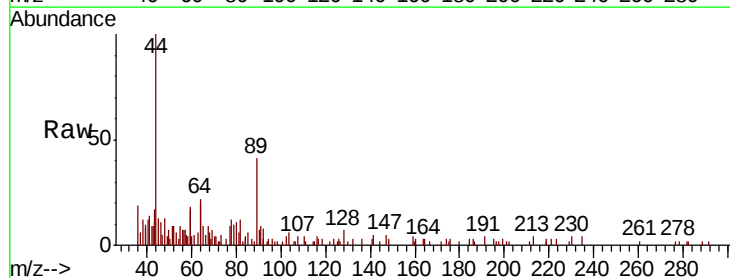
Acq: 18 Dec 2018 16:18

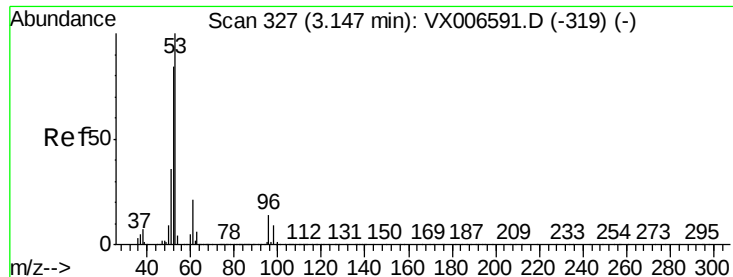
Tgt Ion: 59 Resp: 2511

Ion Ratio Lower Upper

59 100

57 15.5 8.2 12.2#

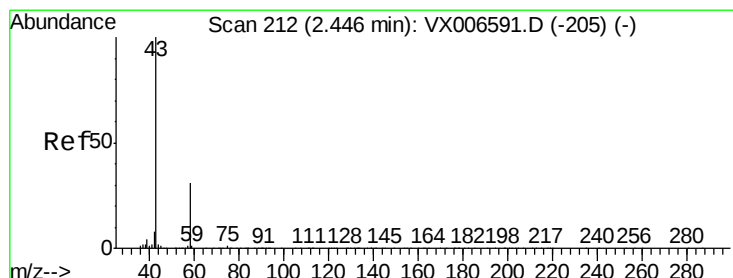
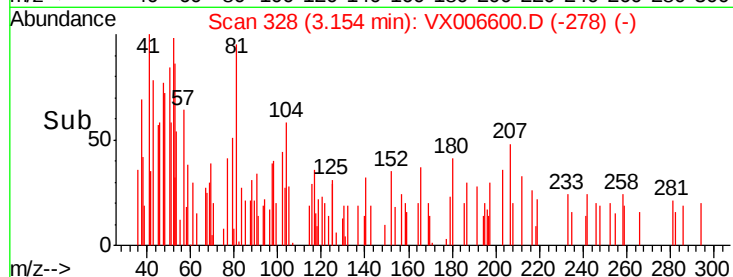
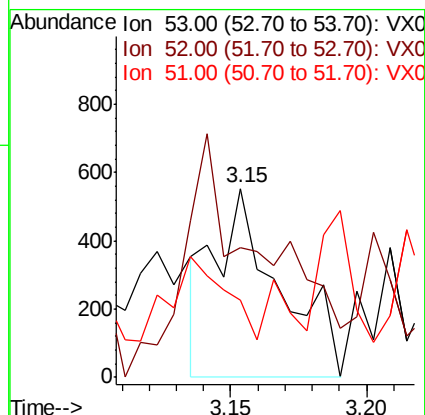
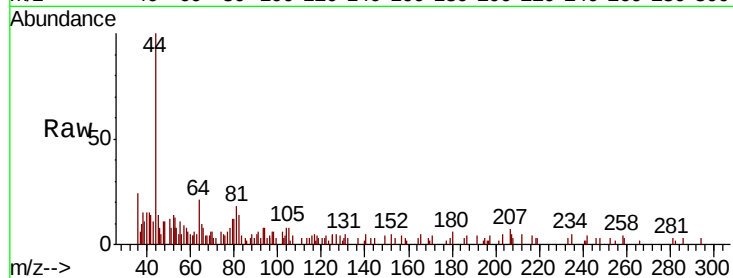




#15  
Acrylonitrile  
Concen: 0.243 ug/l  
RT: 3.15 min Scan# 328  
Delta R.T. 0.01 min  
Lab File: VX006600.D  
Acq: 18 Dec 2018 16:18

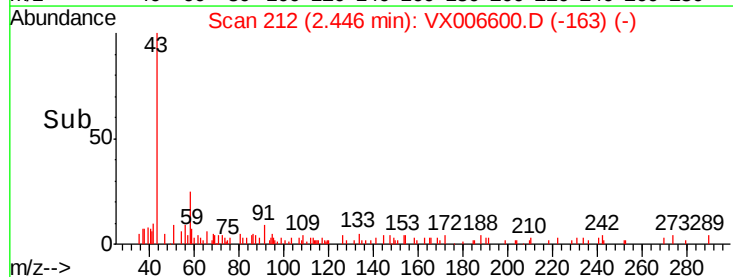
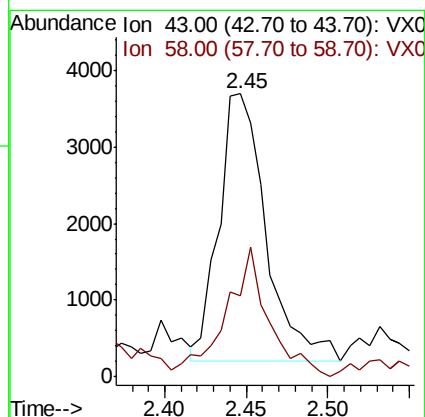
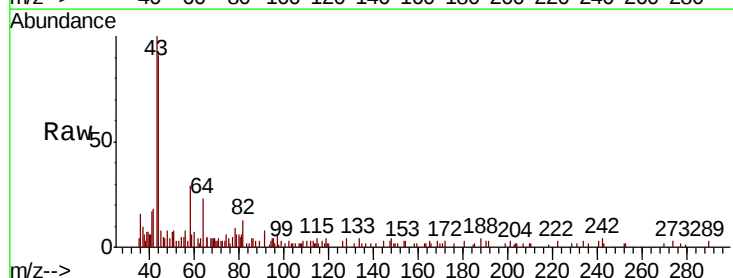
Instrument :  
MSVOA\_X  
ClientSampleID :  
OILY-WATERDL

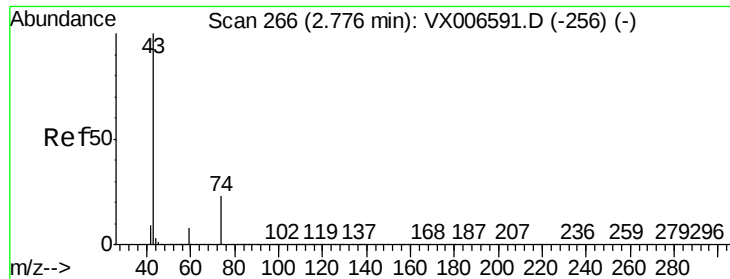
Tot Ion: 53 Resp: 912  
Ion Ratio Lower Upper  
53 100  
52 0.0 66.2 99.4#  
51 0.0 28.7 43.1#



#16  
Acetone  
Concen: 2.014 ug/l  
RT: 2.45 min Scan# 212  
Delta R.T. 0.00 min  
Lab File: VX006600.D  
Acq: 18 Dec 2018 16:18

Tgt Ion: 43 Resp: 7006  
Ion Ratio Lower Upper  
43 100  
58 28.2 24.0 36.0





#18

Methyl Acetate

Concen: 0.580 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX006600.D

Acq: 18 Dec 2018 16:18

Instrument :

MSVOA\_X

ClientSampleId :

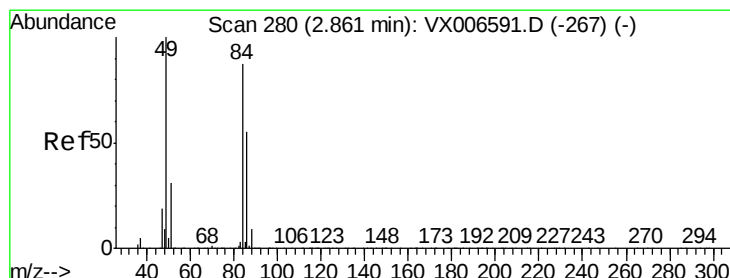
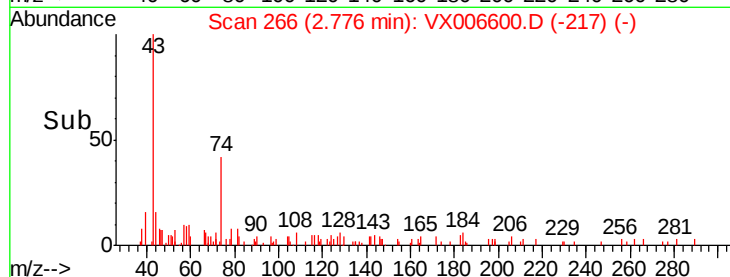
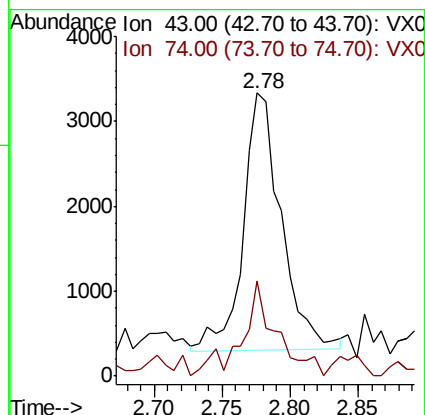
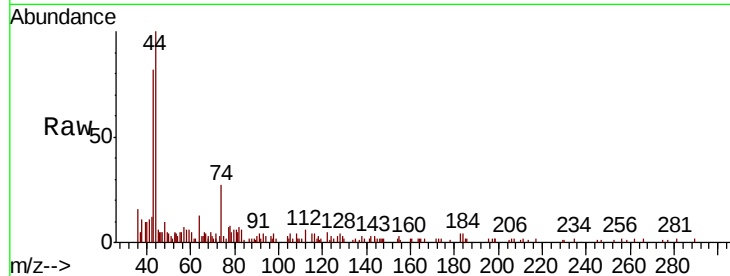
OILY-WATERDL

Tot Ion: 43 Resp: 5936

Ion Ratio Lower Upper

43 100

74 29.5 17.9 26.9#



#20

Methylene Chloride

Concen: 0.248 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX006600.D

Acq: 18 Dec 2018 16:18

Tgt Ion: 84 Resp: 1781

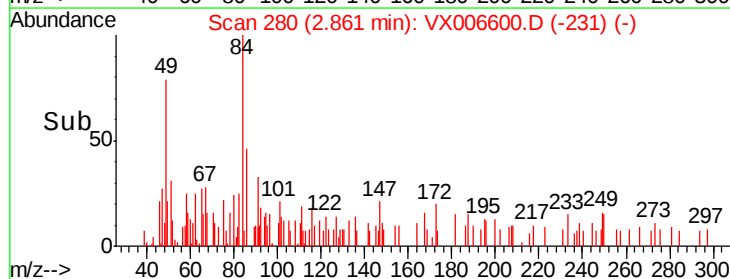
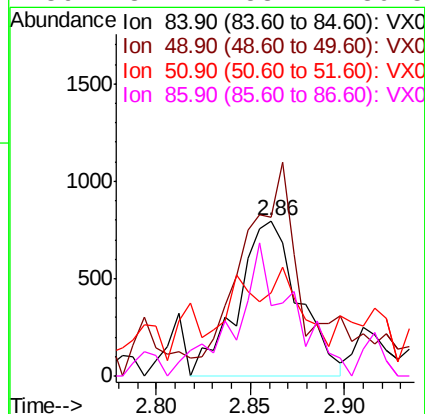
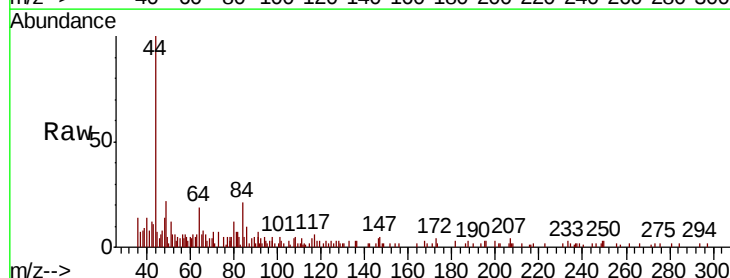
Ion Ratio Lower Upper

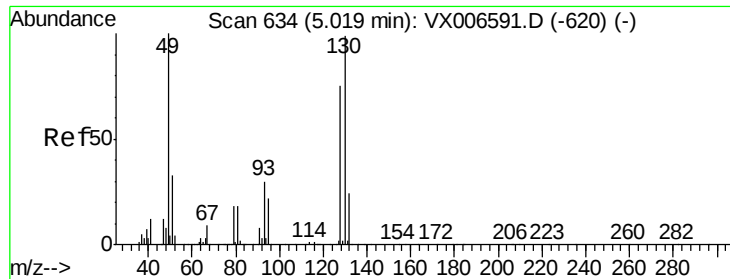
84 100

49 112.3 102.2 153.4

51 14.8 31.1 46.7#

86 34.2 53.7 80.5#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX006600.D

Acq: 18 Dec 2018 16:18

Instrument :

MSVOA\_X

ClientSampled :

OILY-WATERDL

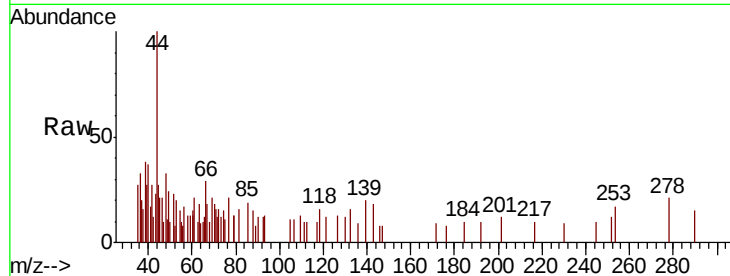
Tot Ion: 49 Resp: 198

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.0

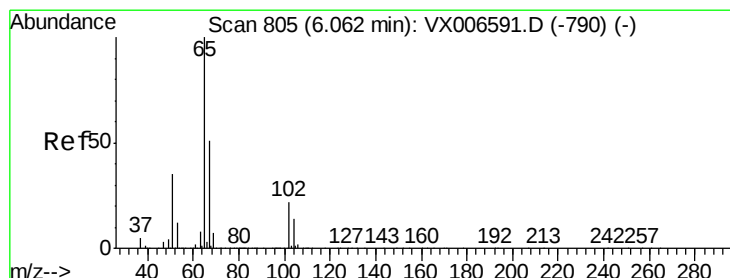
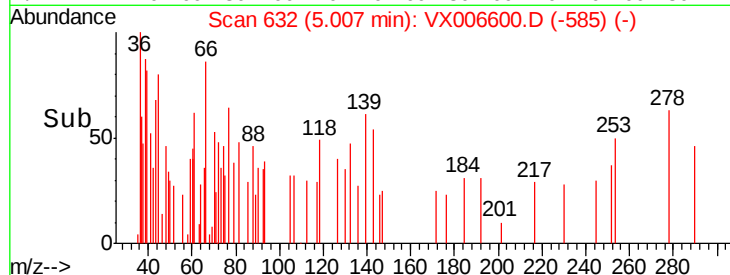
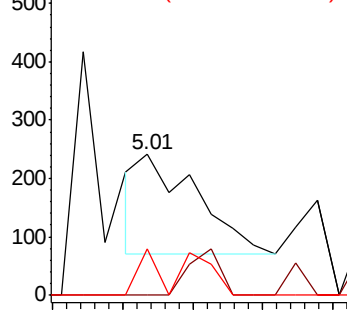
130 14.6 78.3 117.5#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#33

1,2-Dichloroethane-d4

Concen: 49.141 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006600.D

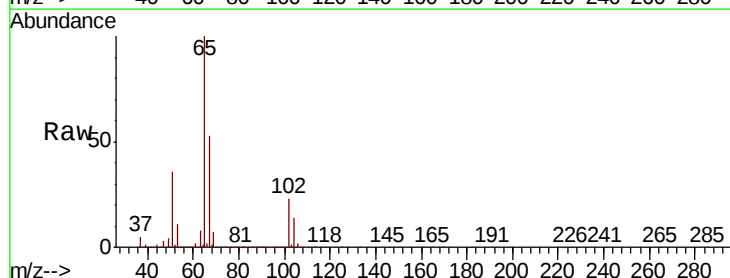
Acq: 18 Dec 2018 16:18

Tgt Ion: 65 Resp: 372166

Ion Ratio Lower Upper

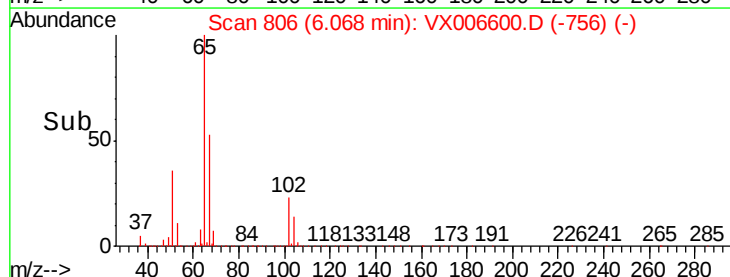
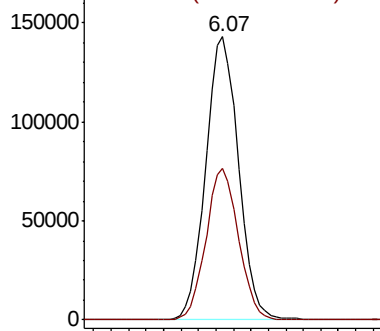
65 100

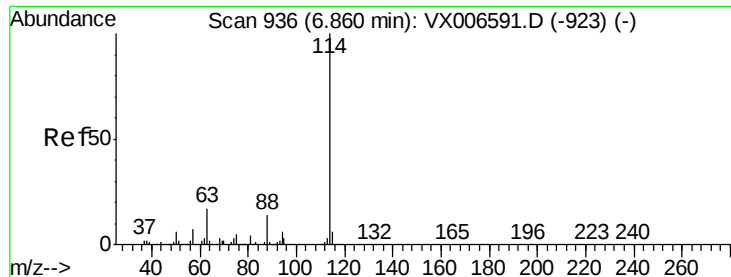
67 53.2 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

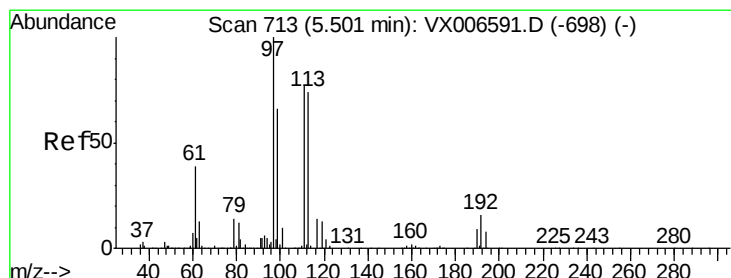
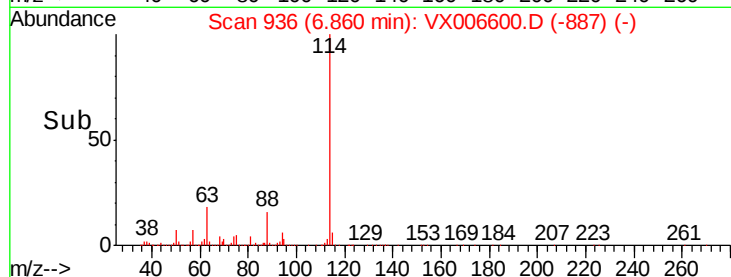
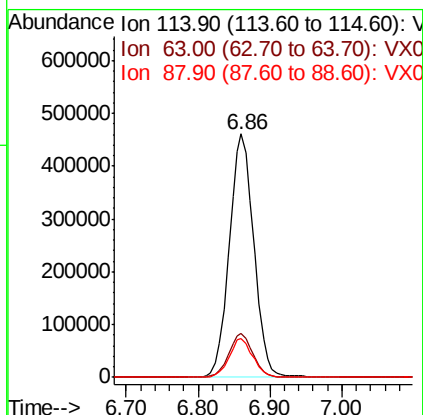
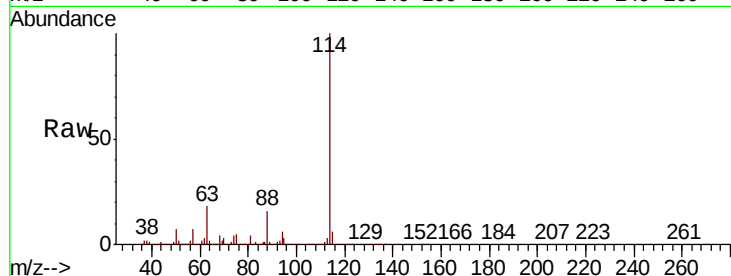




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.86 min Scan# 936  
Delta R.T. 0.00 min  
Lab File: VX006600.D  
Acq: 18 Dec 2018 16:18

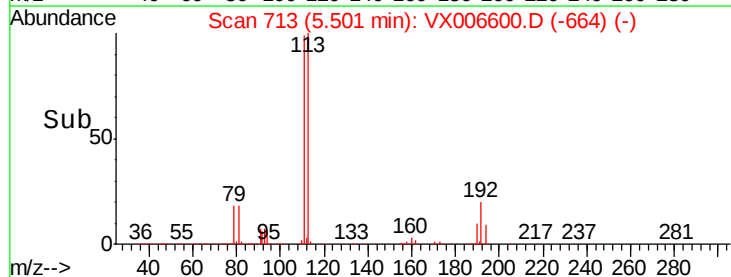
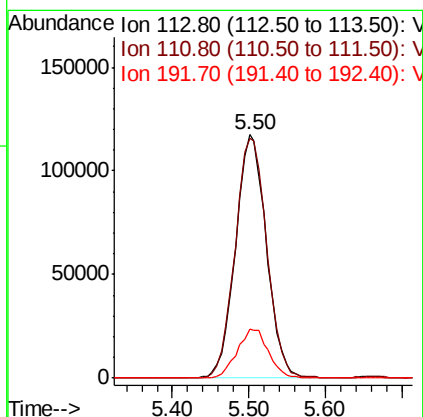
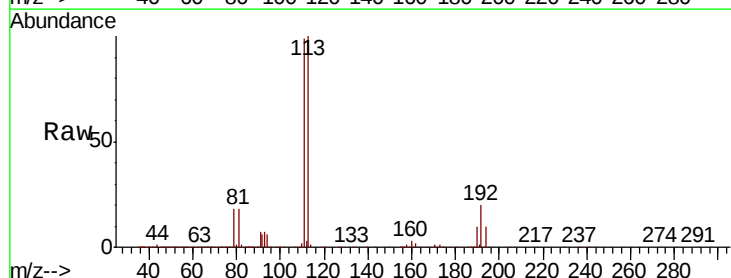
Instrument :  
MSVOA\_X  
ClientSampleId :  
OILY-WATERDL

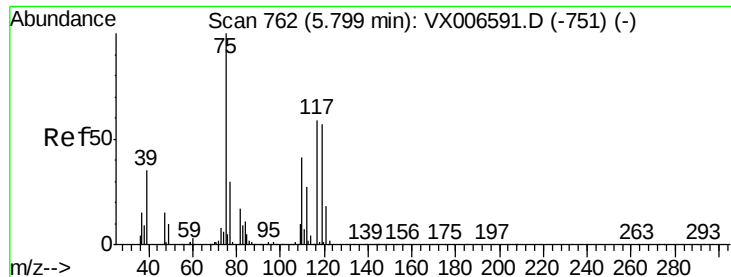
Tot Ion:114 Resp: 1091078  
Ion Ratio Lower Upper  
114 100  
63 18.1 0.0 36.6  
88 15.7 0.0 29.0



#35  
Dibromofluoromethane  
Concen: 47.611 ug/l  
RT: 5.50 min Scan# 713  
Delta R.T. 0.00 min  
Lab File: VX006600.D  
Acq: 18 Dec 2018 16:18

Tgt Ion:113 Resp: 328507  
Ion Ratio Lower Upper  
113 100  
111 101.4 81.1 121.7  
192 20.4 18.2 27.2

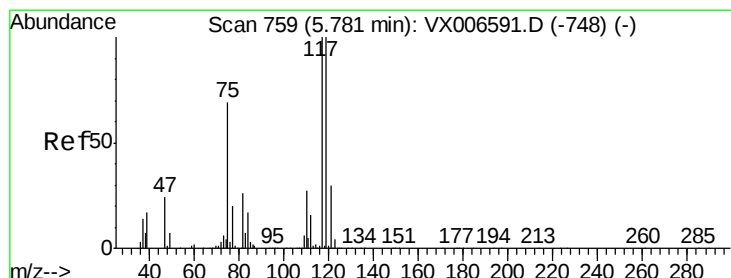
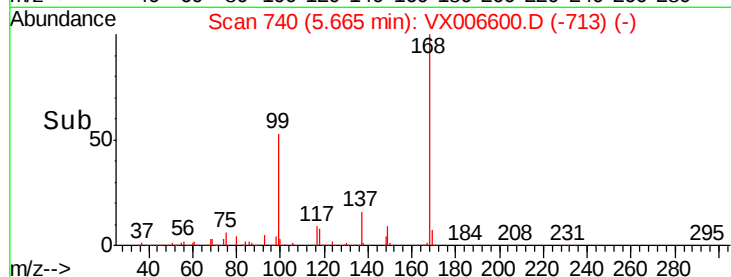
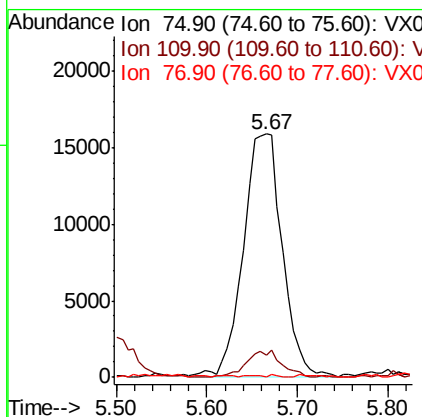
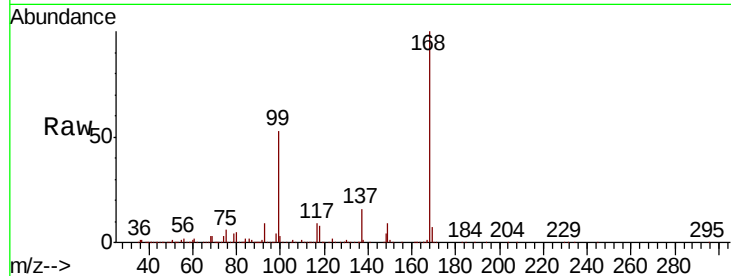




#36  
 1,1-Dichloropropene  
 Concen: 5.256 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. -0.13 min  
 Lab File: VX006600.D  
 Acq: 18 Dec 2018 16:18

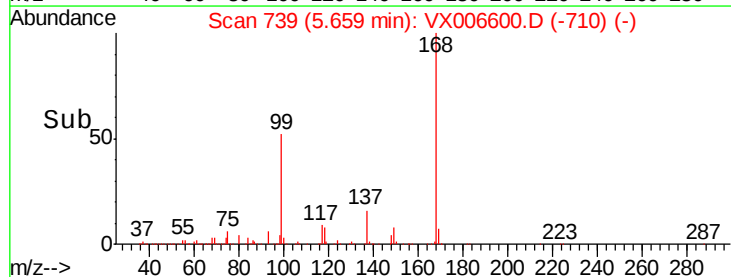
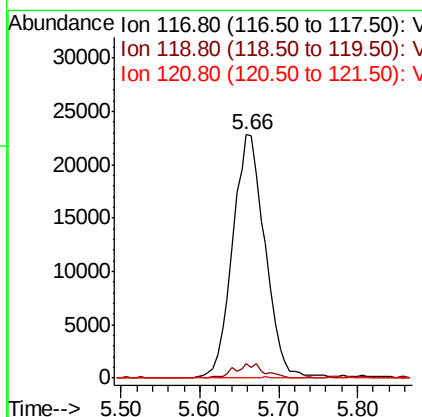
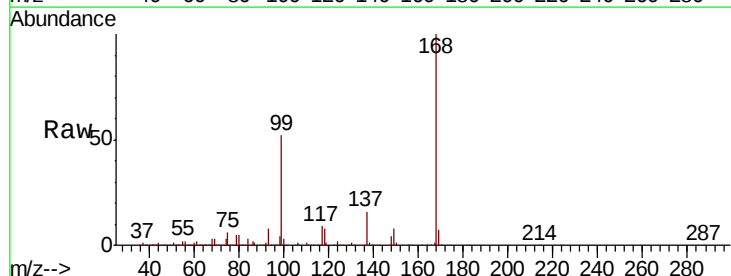
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 OILY-WATERDL

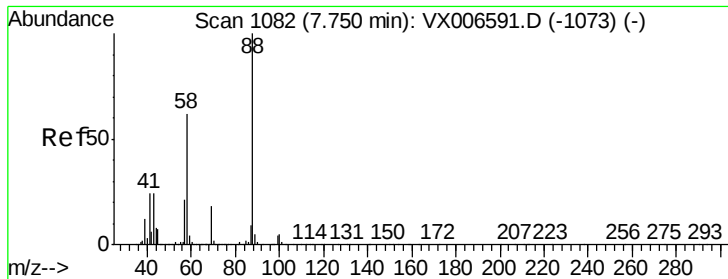
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.0  | 20.4  | 61.3# |
| 77      | 0.3   | 24.9  | 37.3# |



#38  
 Carbon Tetrachloride  
 Concen: 7.459 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.12 min  
 Lab File: VX006600.D  
 Acq: 18 Dec 2018 16:18

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.0   | 75.8  | 113.8# |
| 121     | 0.0   | 24.6  | 37.0#  |

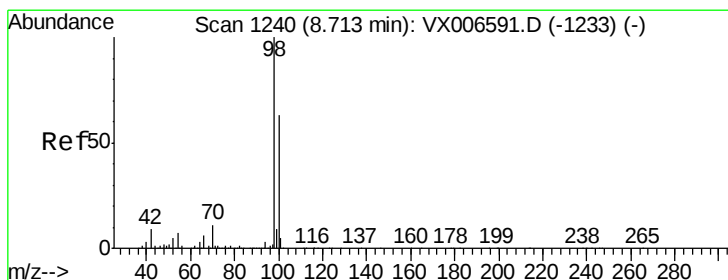
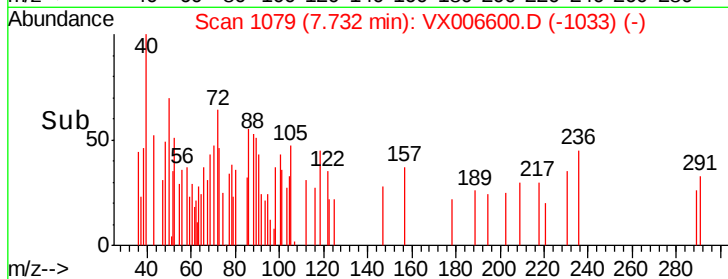
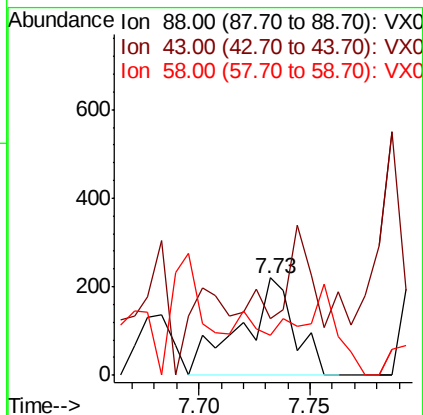
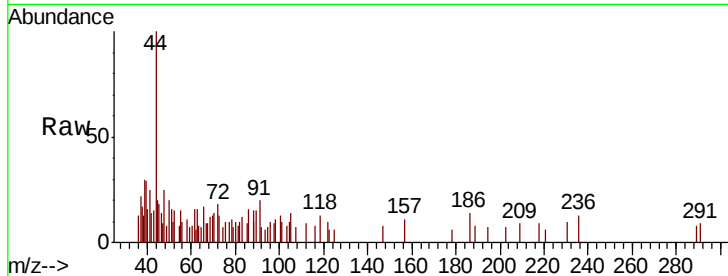




#49  
1,4-Dioxane  
Concen: Below Cal  
RT: 7.73 min Scan# 1079  
Delta R.T. -0.02 min  
Lab File: VX006600.D  
Acq: 18 Dec 2018 16:18

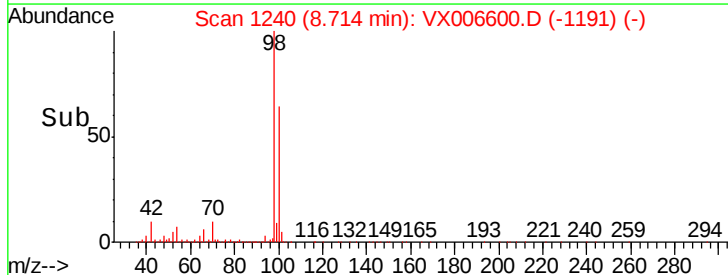
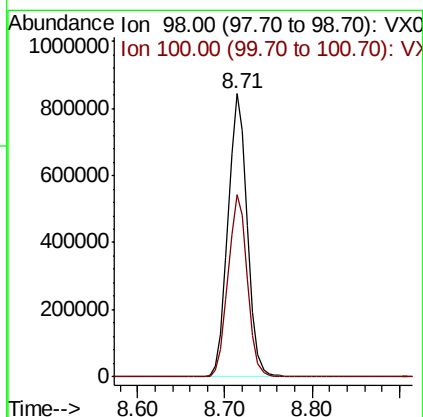
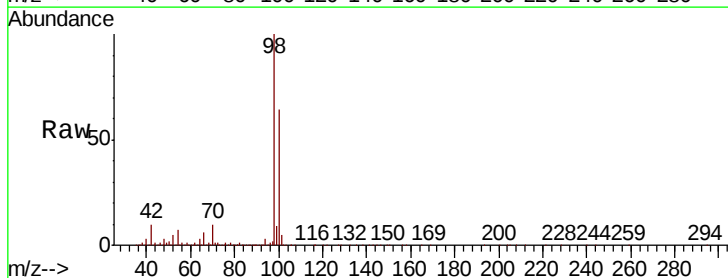
Instrument :  
MSVOA\_X  
ClientSampleID :  
OILY-WATERDL

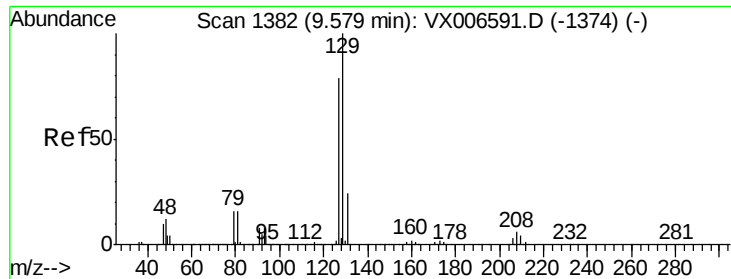
Tot Ion: 88 Resp: 367  
Ion Ratio Lower Upper  
88 100  
43 0.0 23.2 34.8#  
58 0.0 51.4 77.0#



#50  
Toluene-d8  
Concen: 49.572 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX006600.D  
Acq: 18 Dec 2018 16:18

Tgt Ion: 98 Resp: 1289489  
Ion Ratio Lower Upper  
98 100  
100 64.4 52.2 78.2





#60

Dibromochloromethane

Concen: 2.336 ug/l

RT: 9.63 min Scan# 1390

Delta R.T. 0.05 min

Lab File: VX006600.D

Acq: 18 Dec 2018 16:18

Instrument :

MSVOA\_X

ClientSampleId :

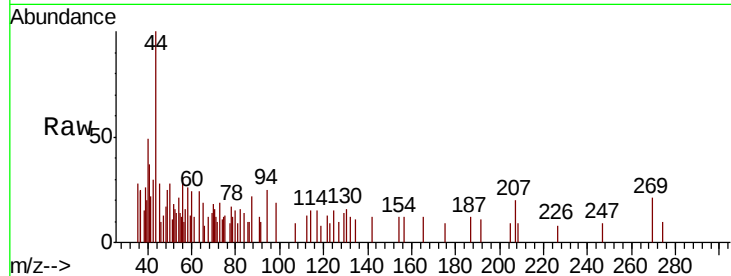
OILY-WATERDL

Tot Ion:129 Resp: 91

Ion Ratio Lower Upper

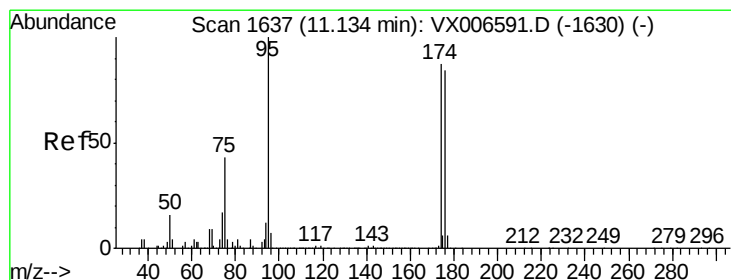
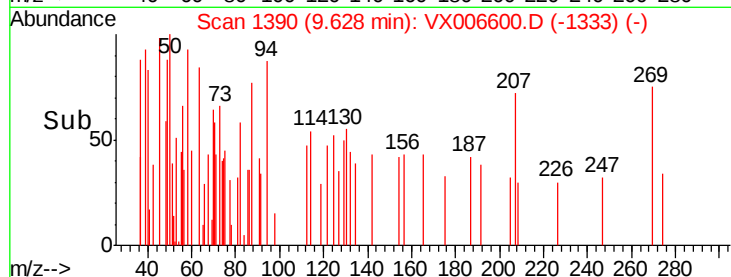
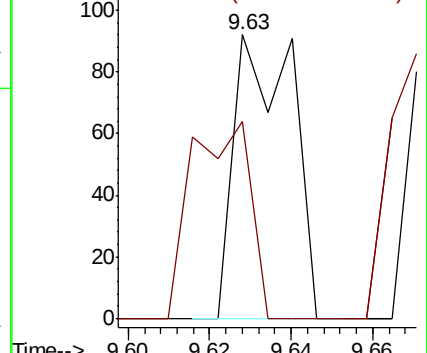
129 100

127 70.3 38.6 115.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 49.810 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX006600.D

Acq: 18 Dec 2018 16:18

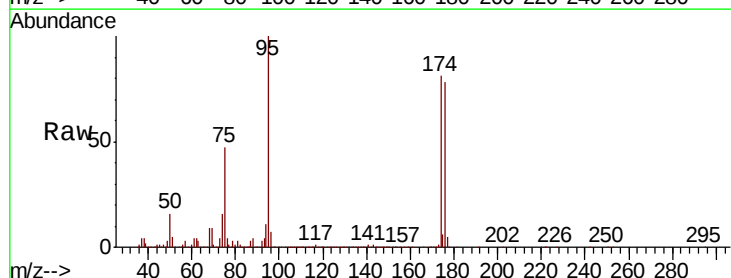
Tgt Ion: 95 Resp: 474530

Ion Ratio Lower Upper

95 100

174 86.9 0.0 187.0

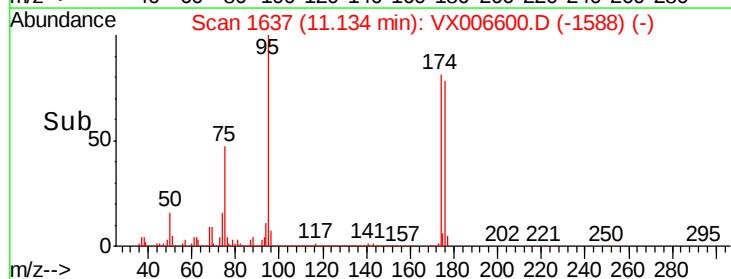
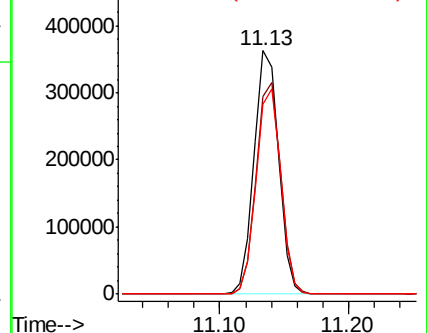
176 84.4 0.0 181.8

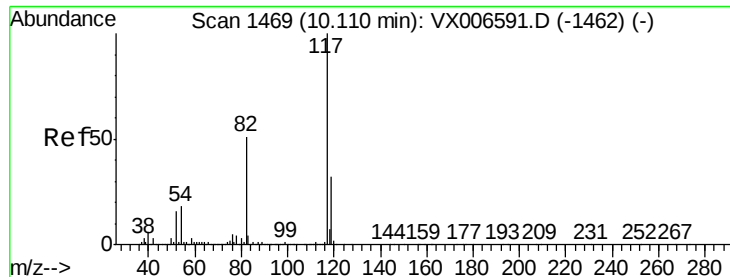


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

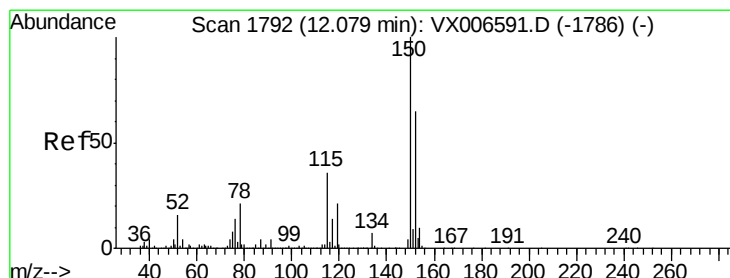
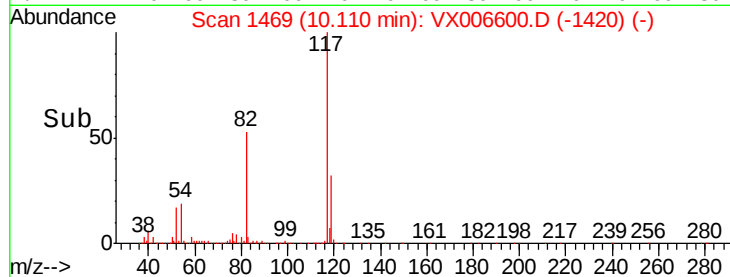
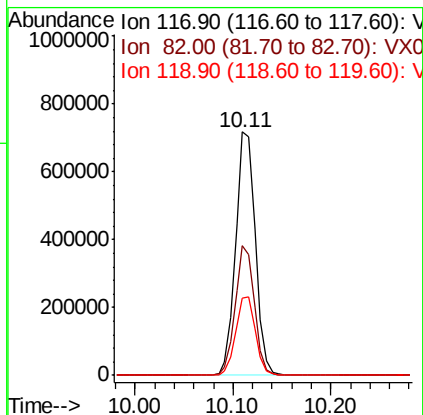
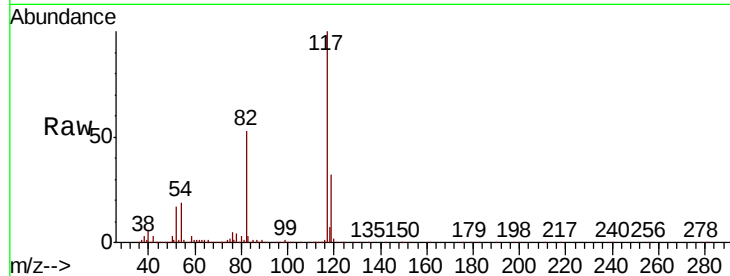




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX006600.D  
Acq: 18 Dec 2018 16:18

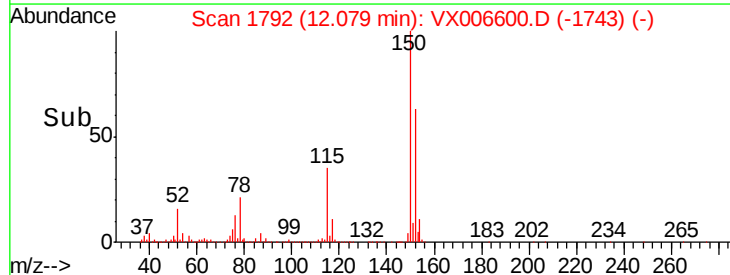
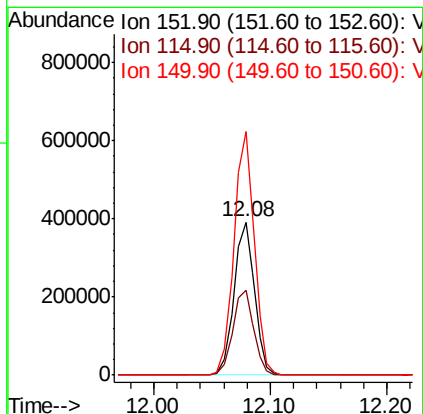
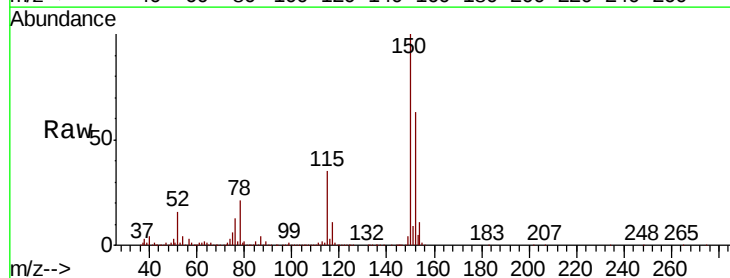
Instrument :  
MSVOA\_X  
ClientSampleId :  
OILY-WATERDL

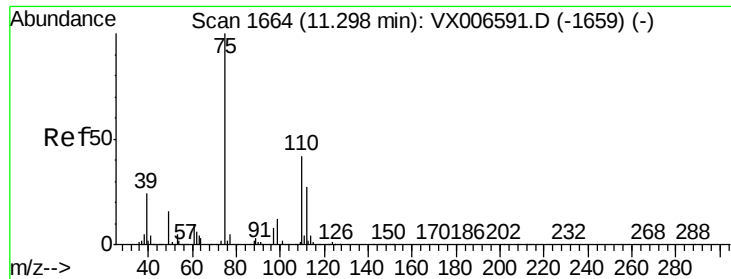
Tot Ion:117 Resp: 1002844  
Ion Ratio Lower Upper  
117 100  
82 53.4 39.6 59.4  
119 31.5 26.3 39.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX006600.D  
Acq: 18 Dec 2018 16:18

Tgt Ion:152 Resp: 480330  
Ion Ratio Lower Upper  
152 100  
115 56.5 39.0 116.9  
150 158.2 0.0 345.8





#76

1,2,3-Trichloropropane

Concen: 25.975 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006600.D

Acq: 18 Dec 2018 16:18

Instrument :

MSVOA\_X

ClientSampleId :

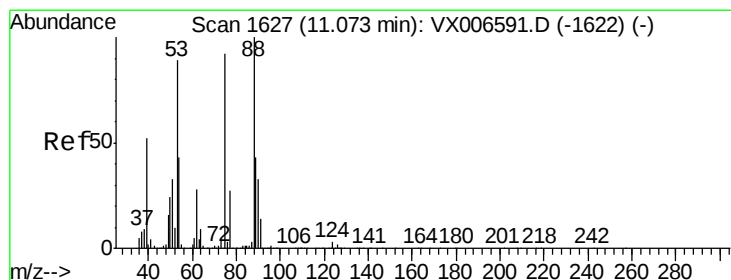
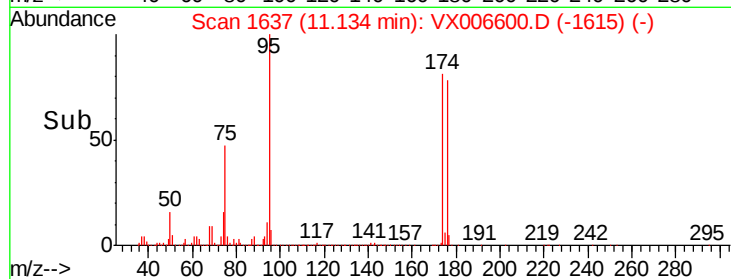
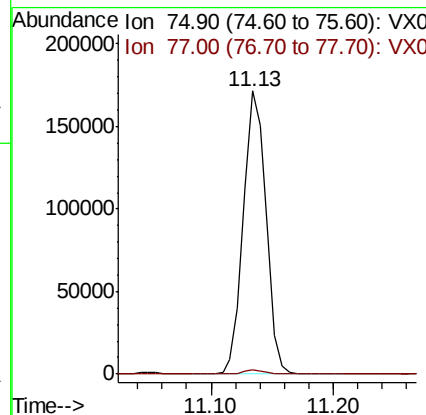
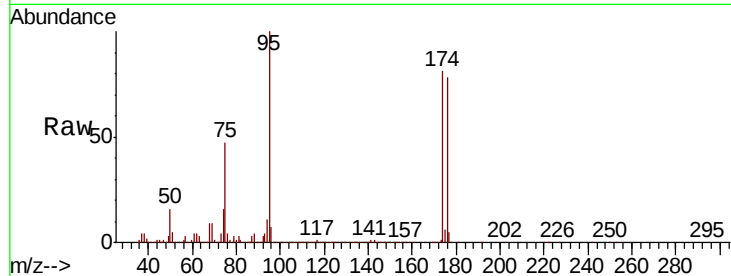
OILY-WATERDL

Tot Ion: 75 Resp: 218675

Ion Ratio Lower Upper

75 100

77 1.4 19.9 59.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.474 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006600.D

Acq: 18 Dec 2018 16:18

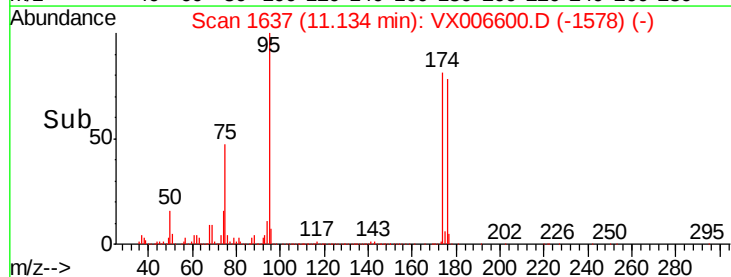
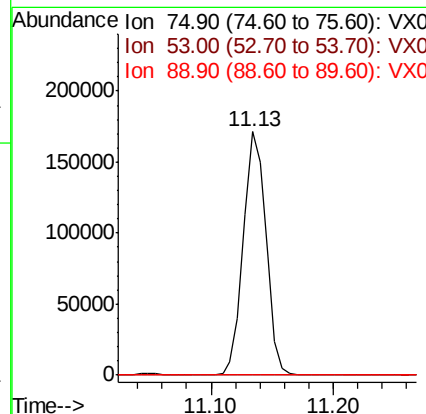
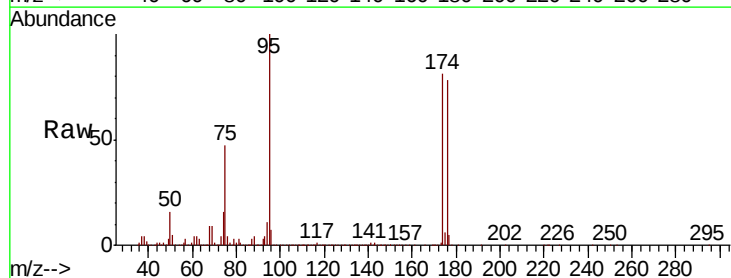
Tgt Ion: 75 Resp: 218675

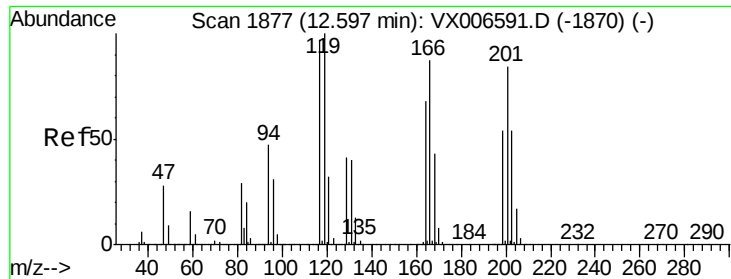
Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

89 0.0 44.2 66.4#





#90

Hexachloroethane

Concen: 3.298 ug/l

RT: 12.52 min Scan# 1864

Delta R.T. -0.08 min

Lab File: VX006600.D

Acq: 18 Dec 2018 16:18

Instrument :

MSVOA\_X

ClientSampleId :

OILY-WATERDL

Tot Ion:117 Resp: 22

Ion Ratio Lower Upper

117 100

201 90.9 44.7 134.1

