

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX031318\  
 Data File : VX000307.D  
 Acq On : 13 Mar 2018 18:20  
 Operator : JC/MD  
 Sample : J1885-01 5X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 153-20

Quant Time: Mar 14 00:59:12 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X030718W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 08 02:15:47 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.68  | 168  | 111452   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 189181   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 180478   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 95287    | 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   | 78295    | 50.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.36% |          |
| 35) Dibromofluoromethane    | 5.52  | 113  | 57336    | 48.25 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.50%  |          |
| 50) Toluene-d8              | 8.73  | 98   | 229453   | 46.62 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.24%  |          |
| 62) 4-Bromofluorobenzene    | 11.15 | 95   | 82095    | 42.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.48%  |          |

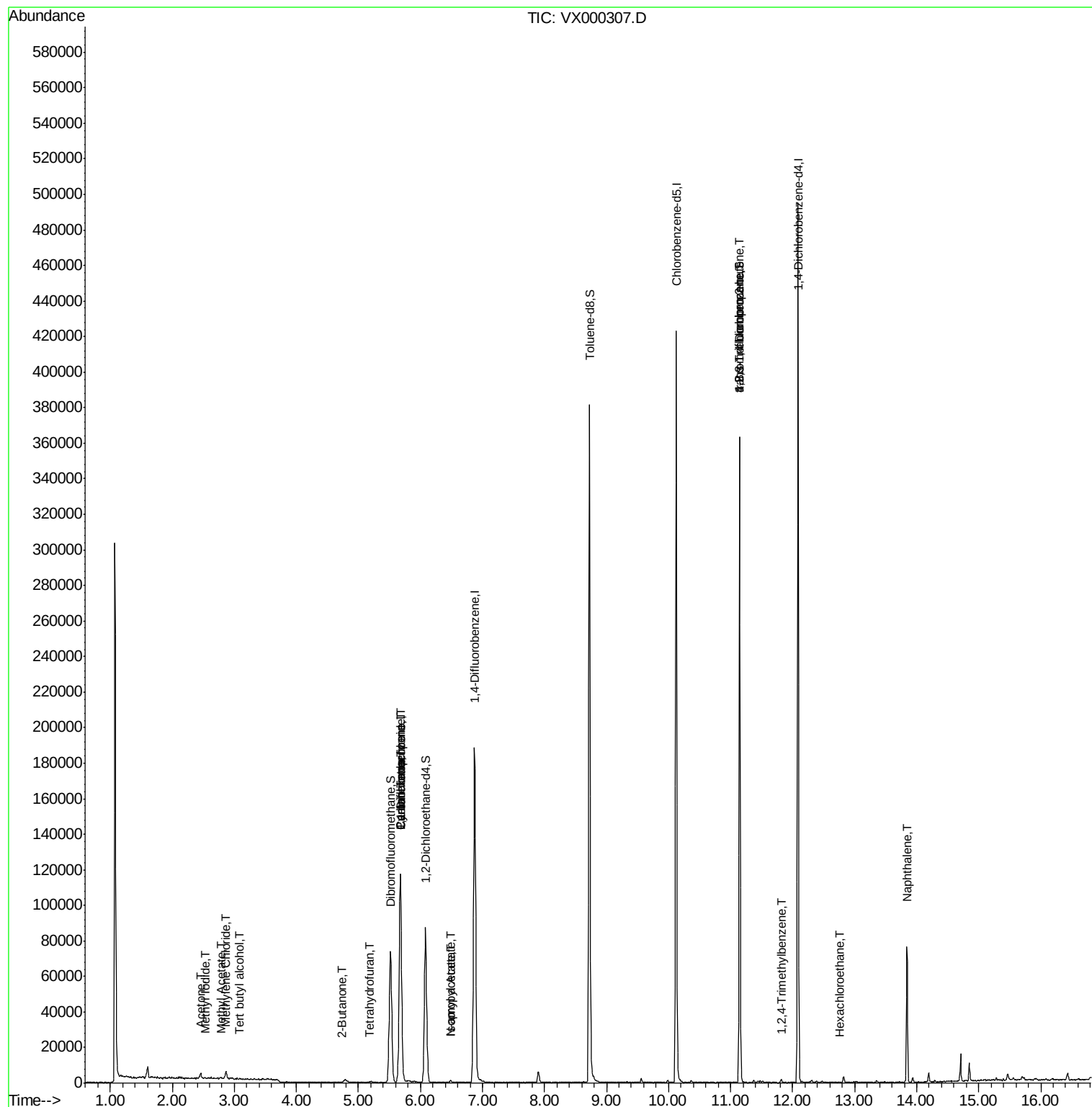
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.66  | 94   | 143      | Below Cal | #      | 3      |
| 6) Chloroethane                | 1.73  | 64   | 314      | Below Cal | #      | 42     |
| 10) Methyl Iodide              | 2.53  | 142  | 83       | 3.20      | ug/l # | 37     |
| 11) Tert butyl alcohol         | 3.08  | 59   | 264      | 0.47      | ug/l # | 72     |
| 16) Acetone                    | 2.45  | 43   | 3099     | 2.79      | ug/l   | 95     |
| 18) Methyl Acetate             | 2.78  | 43   | 654      | 0.28      | ug/l # | 60     |
| 20) Methylene Chloride         | 2.86  | 84   | 1740     | 1.31      | ug/l   | 89     |
| 25) 2-Butanone                 | 4.73  | 43   | 361      | 0.26      | ug/l # | 50     |
| 29) Tetrahydrofuran            | 5.18  | 42   | 322      | 0.37      | ug/l # | 31     |
| 31) Cyclohexane                | 5.68  | 56   | 2854     | 1.69      | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.68  | 75   | 9104     | 5.41      | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.68  | 117  | 10882    | 6.39      | ug/l # | 16     |
| 43) Isopropyl Acetate          | 6.49  | 43   | 1318     | 0.37      | ug/l   | 98     |
| 74) N-amyl acetate             | 6.49  | 43   | 1318     | 0.43      | ug/l # | 99     |
| 76) 1,2,3-Trichloropropane     | 11.15 | 75   | 46337    | 24.26     | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.15 | 75   | 46337    | 74.29     | ug/l # | 10     |
| 84) 1,2,4-Trimethylbenzene     | 11.82 | 105  | 1074     | 0.21      | ug/l   | 84     |
| 90) Hexachloroethane           | 12.76 | 117  | 202      | 0.23      | ug/l # | 11     |
| 95) Naphthalene                | 13.84 | 128  | 44341    | 6.02      | ug/l   | 99     |

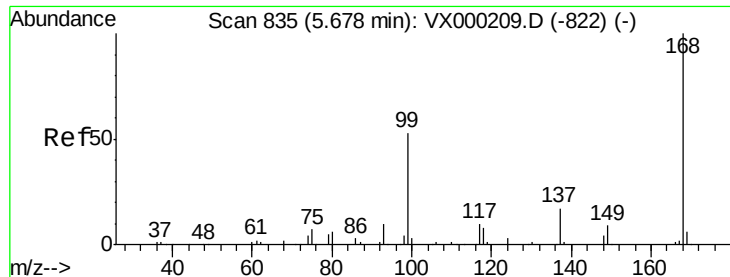
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX031318\  
Data File : VX000307.D  
Acq On : 13 Mar 2018 18:20  
Operator : JC/MD  
Sample : J1885-01 5X  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
153-20

Quant Time: Mar 14 00:59:12 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X030718W.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 08 02:15:47 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: VX000307.D

Acq: 13 Mar 2018 18:20

Instrument :

MSVOA\_X

ClientSampleId :

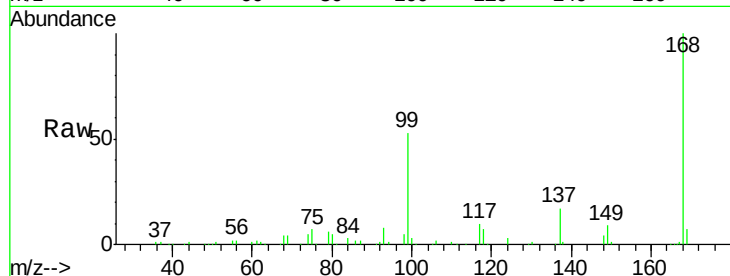
153-20

Tot Ion:168 Resp: 111452

Ion Ratio Lower Upper

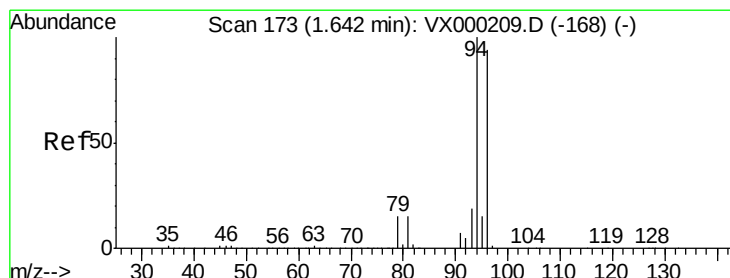
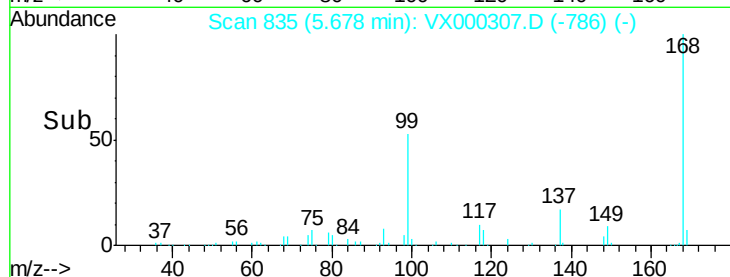
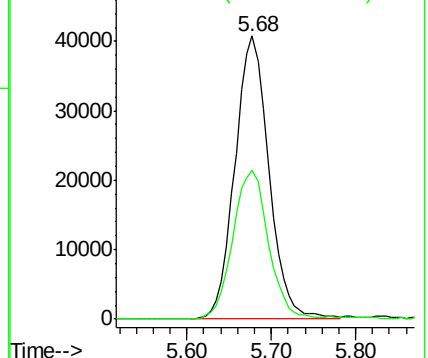
168 100

99 52.6 42.8 64.2



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: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX000307.D

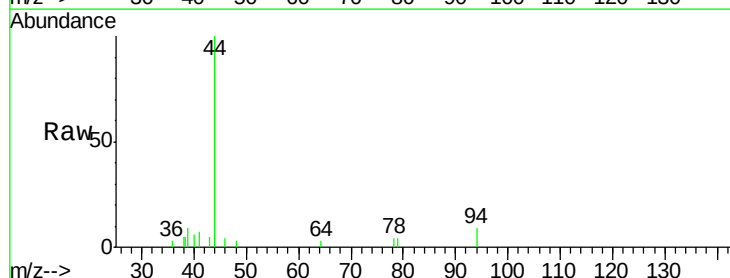
Acq: 13 Mar 2018 18:20

Tgt Ion: 94 Resp: 143

Ion Ratio Lower Upper

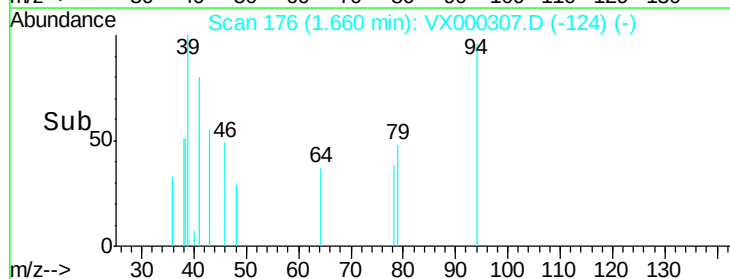
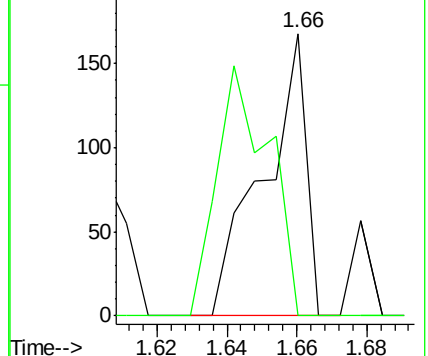
94 100

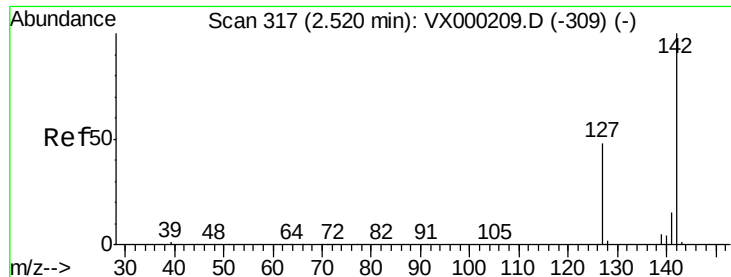
96 0.0 75.3 112.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

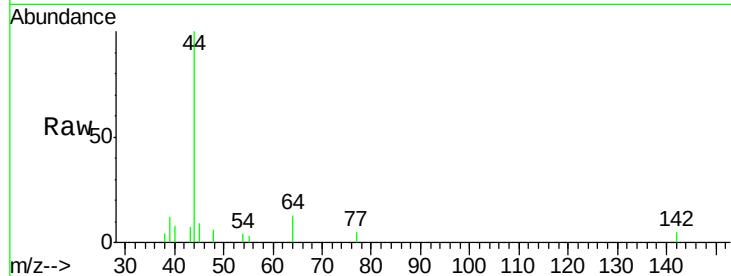




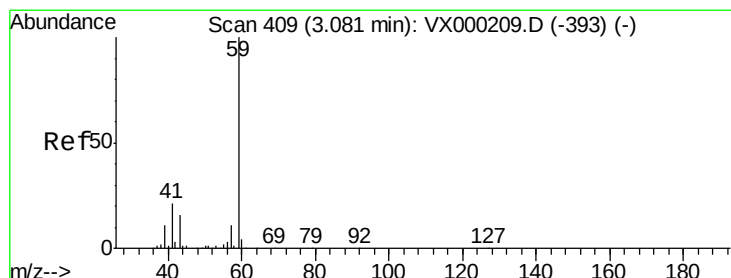
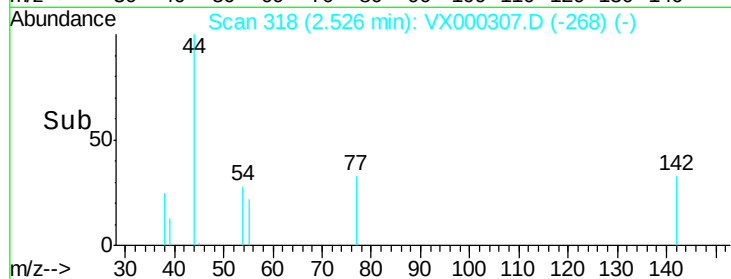
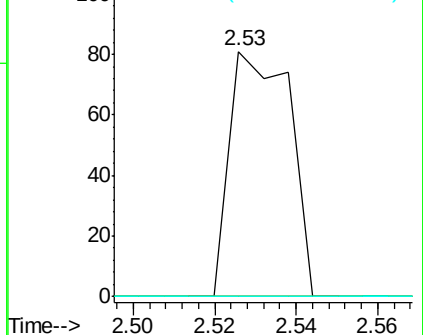
#10  
Methyl Iodide  
Concen: 3.20 ug/l  
RT: 2.53 min Scan# 318  
Delta R.T. 0.01 min  
Lab File: VX000307.D  
Acq: 13 Mar 2018 18:20

Instrument :  
MSVOA\_X  
ClientSampled :  
153-20

Tot Ion:142 Resp: 83  
Ion Ratio Lower Upper  
142 100  
127 0.0 39.0 58.6#  
141 0.0 11.6 17.4#

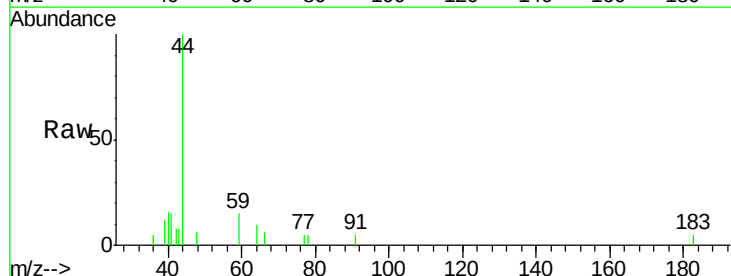


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

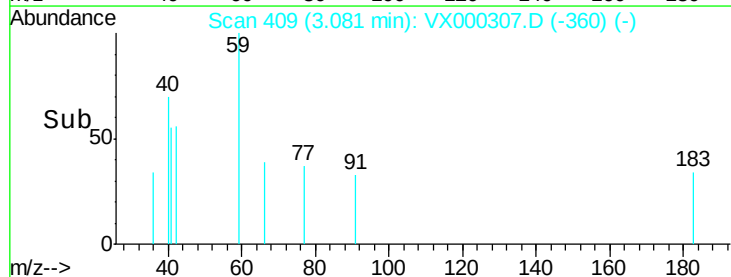
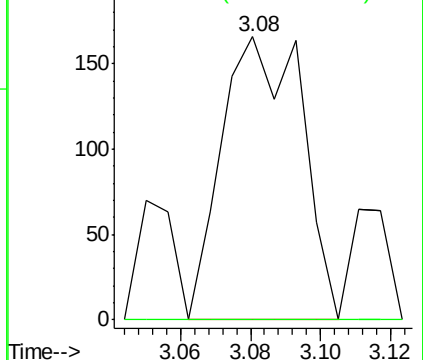


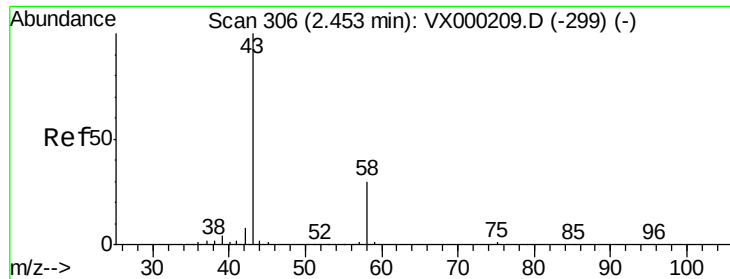
#11  
Tert butyl alcohol  
Concen: 0.47 ug/l  
RT: 3.08 min Scan# 409  
Delta R.T. 0.00 min  
Lab File: VX000307.D  
Acq: 13 Mar 2018 18:20

Tgt Ion: 59 Resp: 264  
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





#16

Acetone

Concen: 2.79 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX000307.D

Acq: 13 Mar 2018 18:20

Instrument :

MSVOA\_X

ClientSampled :

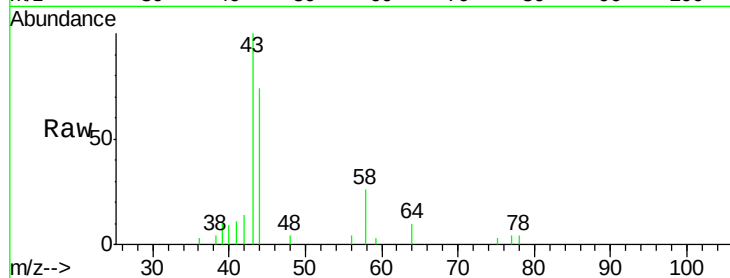
153-20

Tot Ion: 43 Resp: 3099

Ion Ratio Lower Upper

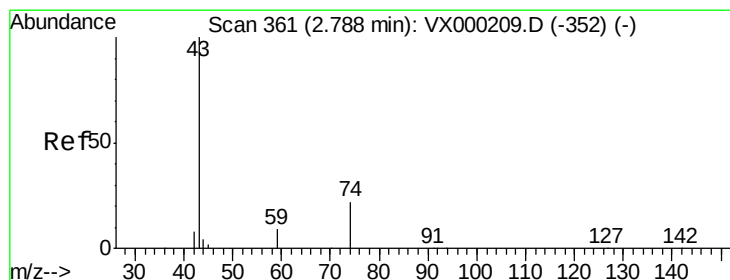
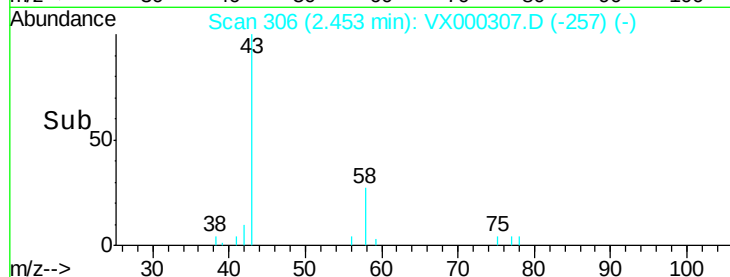
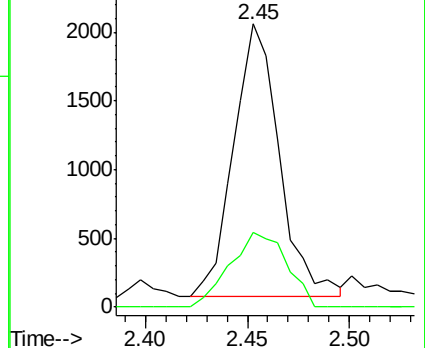
43 100

58 27.2 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.28 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.01 min

Lab File: VX000307.D

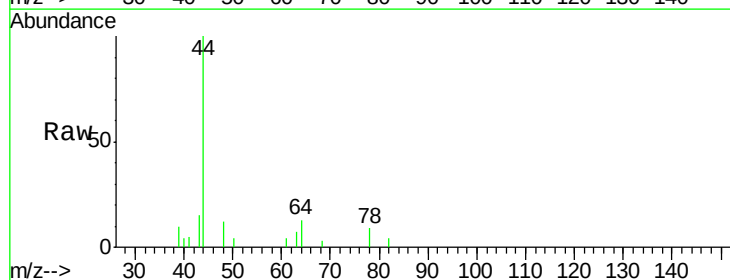
Acq: 13 Mar 2018 18:20

Tgt Ion: 43 Resp: 654

Ion Ratio Lower Upper

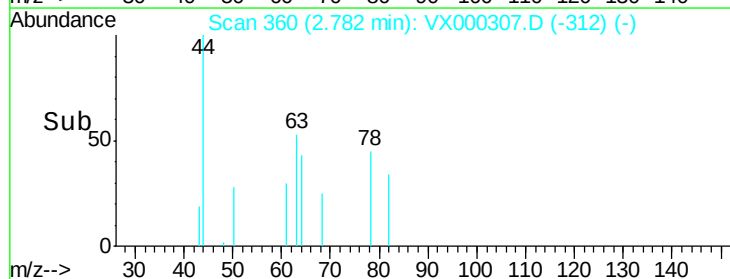
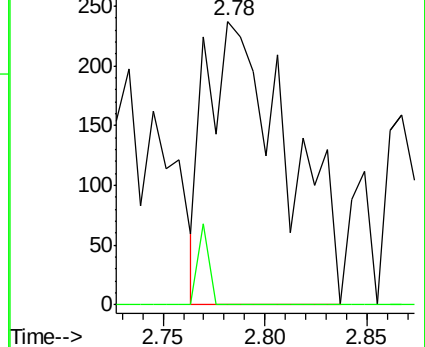
43 100

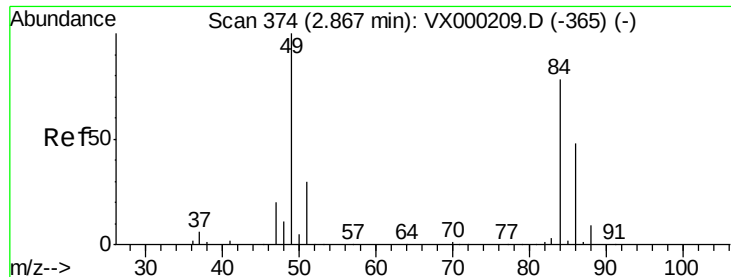
74 3.8 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

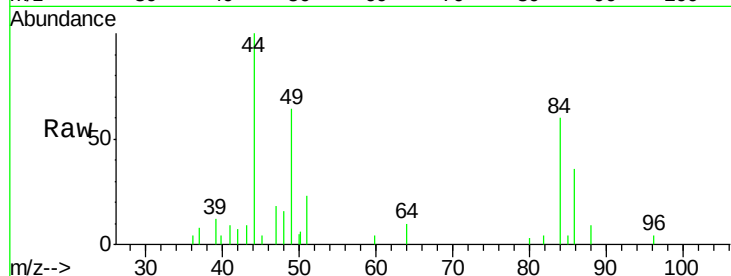




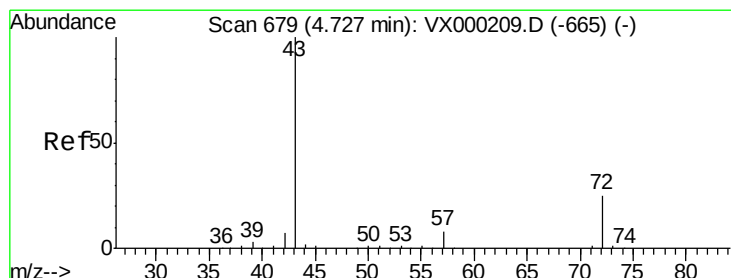
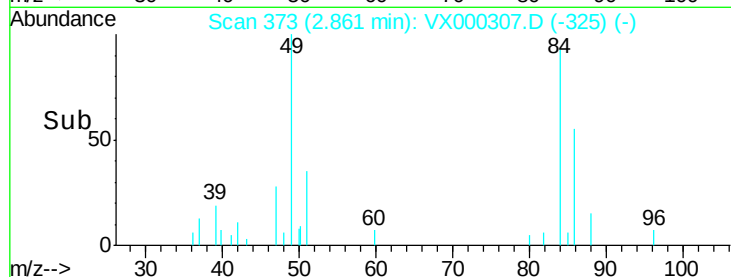
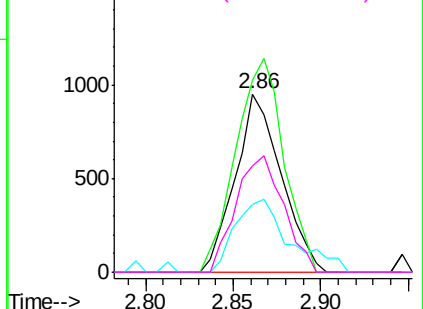
#20  
Methvlene Chloride  
Concen: 1.31 ug/l  
RT: 2.86 min Scan# 373  
Delta R.T. -0.01 min  
Lab File: VX000307.D  
Acq: 13 Mar 2018 18:20

Instrument :  
MSVOA\_X  
ClientSampled :  
153-20

Tot Ion: 84 Resp: 1740  
Ion Ratio Lower Upper  
84 100  
49 107.6 102.1 153.1  
51 37.8 30.6 45.8  
86 59.5 49.0 73.6

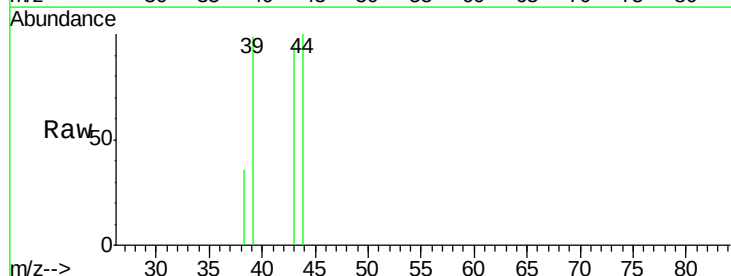


Abundance Ion 83.90 (83.60 to 84.60): VX0  
Ion 48.90 (48.60 to 49.60): VX0  
Ion 50.90 (50.60 to 51.60): VX0  
Ion 85.90 (85.60 to 86.60): VX0

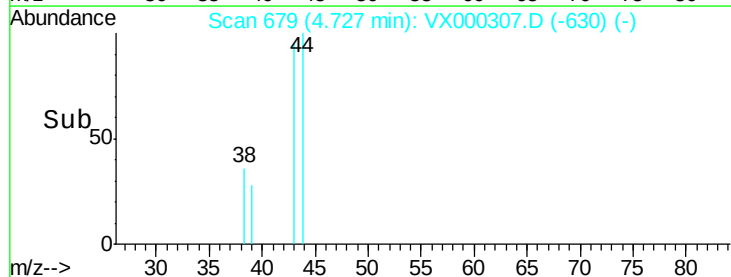
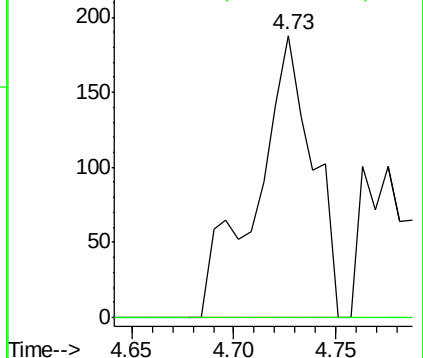


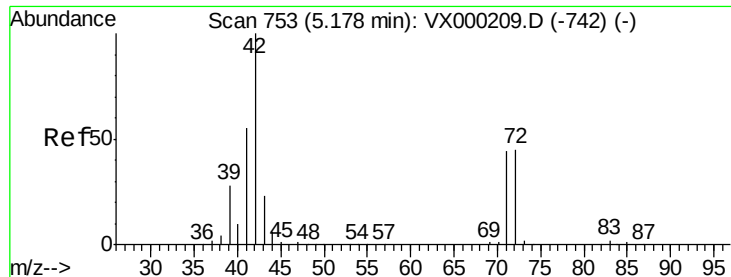
#25  
2-Butanone  
Concen: 0.26 ug/l  
RT: 4.73 min Scan# 679  
Delta R.T. 0.00 min  
Lab File: VX000307.D  
Acq: 13 Mar 2018 18:20

Tgt Ion: 43 Resp: 361  
Ion Ratio Lower Upper  
43 100  
72 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0  
Ion 72.00 (71.70 to 72.70): VX0

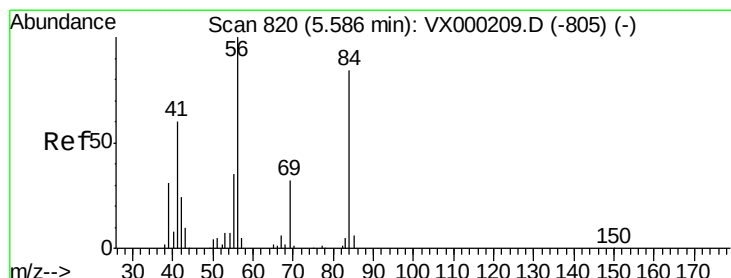
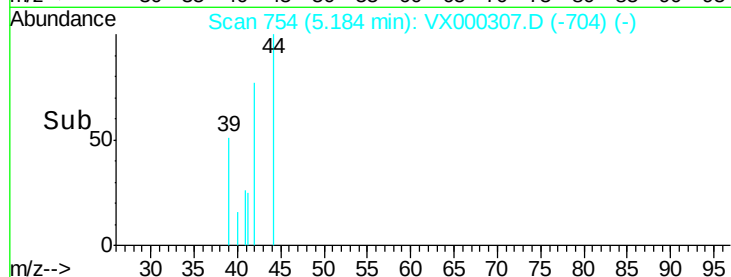
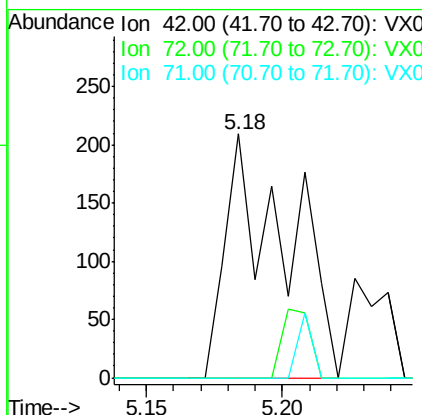
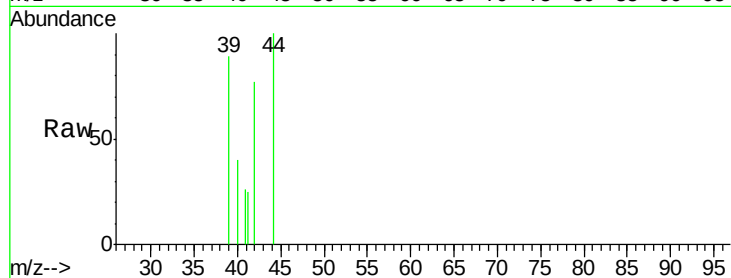




#29  
Tetrahydrofuran  
Concen: 0.37 ug/l  
RT: 5.18 min Scan# 754  
Delta R.T. 0.01 min  
Lab File: VX000307.D  
Acq: 13 Mar 2018 18:20

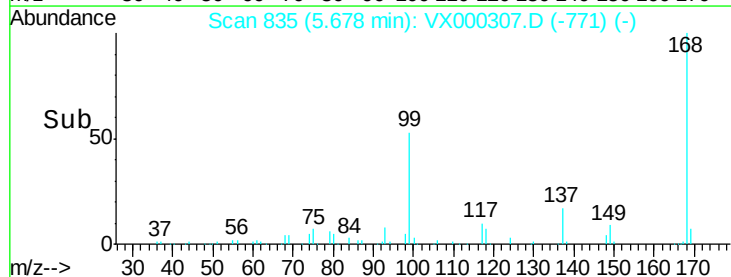
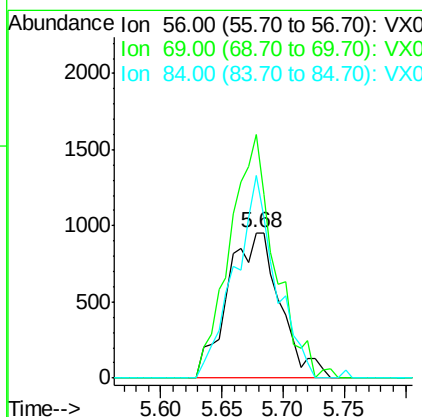
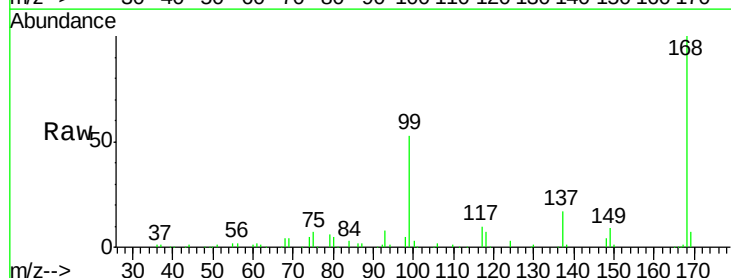
Instrument :  
MSVOA\_X  
ClientSampled :  
153-20

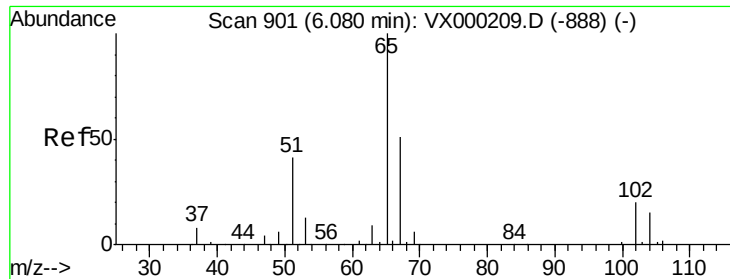
Tot Ion: 42 Resp: 322  
Ion Ratio Lower Upper  
42 100  
72 0.0 37.3 55.9#  
71 0.0 35.0 52.4#



#31  
Cyclohexane  
Concen: 1.69 ug/l  
RT: 5.68 min Scan# 835  
Delta R.T. 0.09 min  
Lab File: VX000307.D  
Acq: 13 Mar 2018 18:20

Tgt Ion: 56 Resp: 2854  
Ion Ratio Lower Upper  
56 100  
69 167.3 25.3 37.9#  
84 139.1 67.2 100.8#

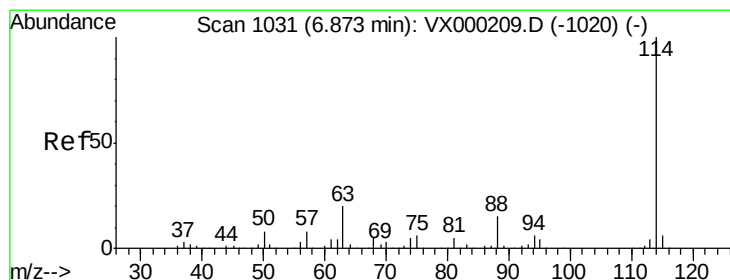
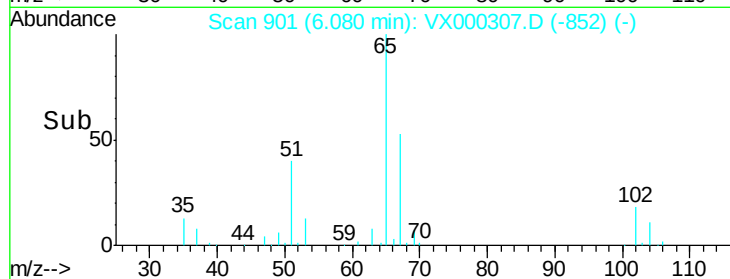
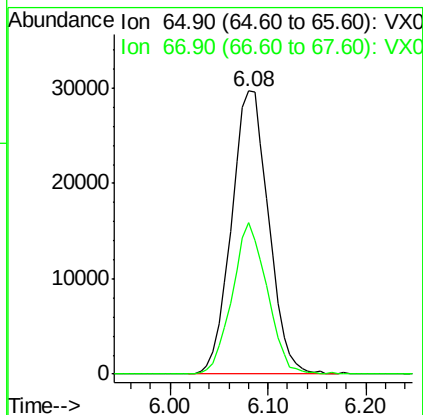
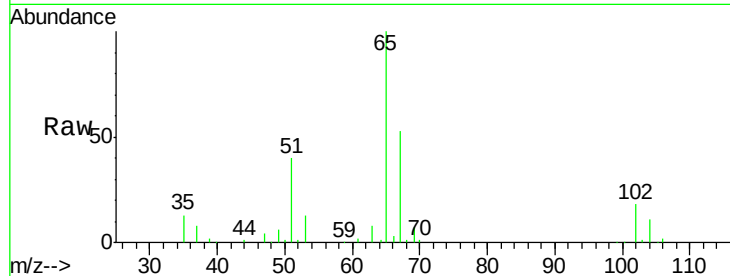




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.68 ug/l  
 RT: 6.08 min Scan# 901  
 Delta R.T. 0.00 min  
 Lab File: VX000307.D  
 Acq: 13 Mar 2018 18:20

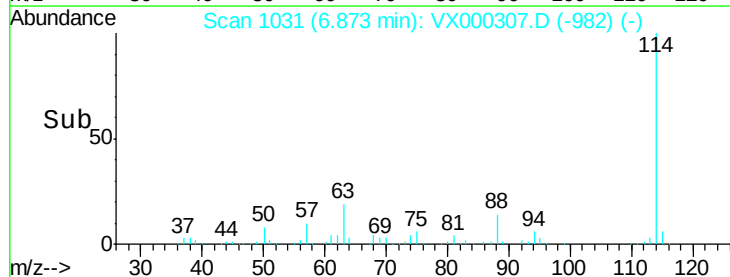
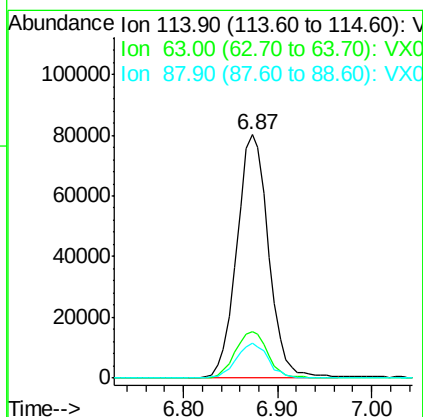
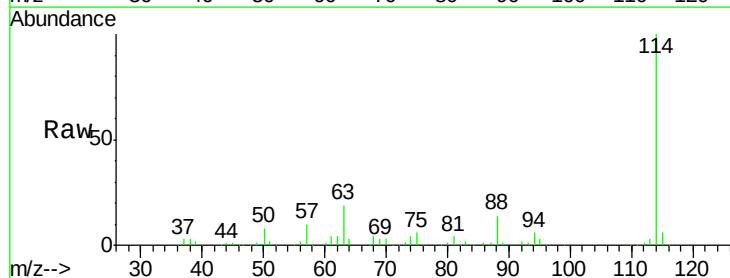
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 153-20

Tot Ion: 65 Resp: 78295  
 Ion Ratio Lower Upper  
 65 100  
 67 50.5 0.0 103.4

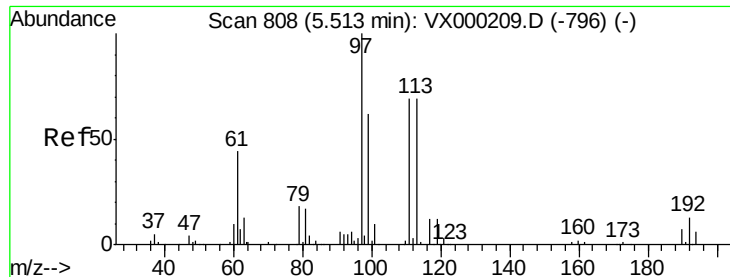


#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1031  
 Delta R.T. 0.00 min  
 Lab File: VX000307.D  
 Acq: 13 Mar 2018 18:20

Tgt Ion: 114 Resp: 189181  
 Ion Ratio Lower Upper  
 114 100  
 63 19.3 0.0 39.2  
 88 14.5 0.0 29.8







#35

Dibromofluoromethane

Concen: 48.25 ug/l

RT: 5.52 min Scan# 809

Delta R.T. 0.01 min

Lab File: VX000307.D

Acq: 13 Mar 2018 18:20

Instrument :

MSVOA\_X

ClientSampleId :

153-20

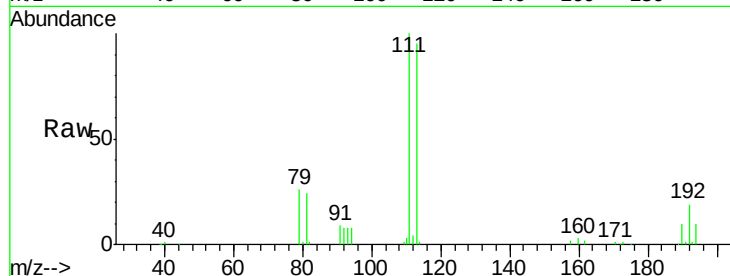
Tot Ion:113 Resp: 57336

Ion Ratio Lower Upper

113 100

111 102.4 83.0 124.6

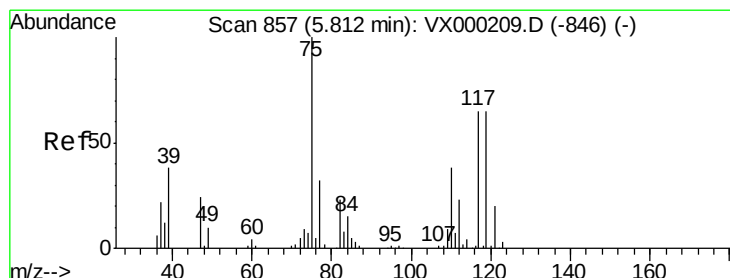
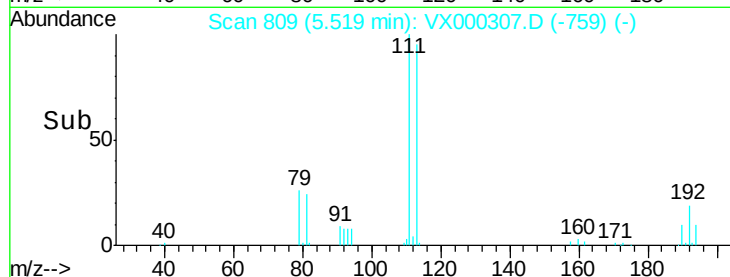
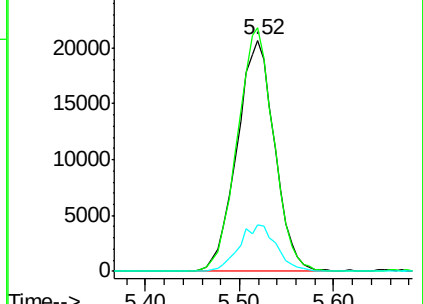
192 20.0 15.5 23.3



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: 5.41 ug/l

RT: 5.68 min Scan# 836

Delta R.T. -0.13 min

Lab File: VX000307.D

Acq: 13 Mar 2018 18:20

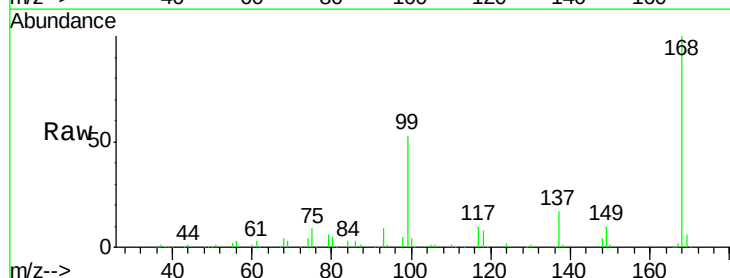
Tgt Ion: 75 Resp: 9104

Ion Ratio Lower Upper

75 100

110 9.3 17.8 53.5#

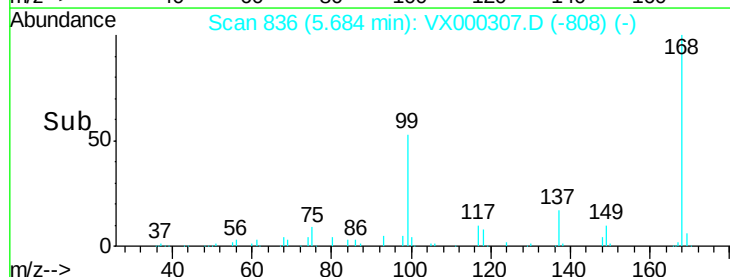
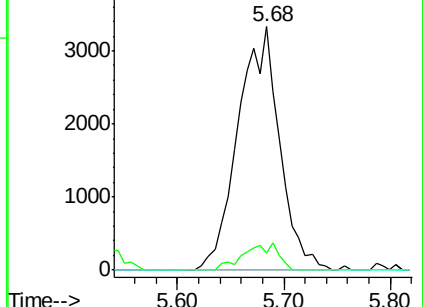
77 0.0 24.9 37.3#

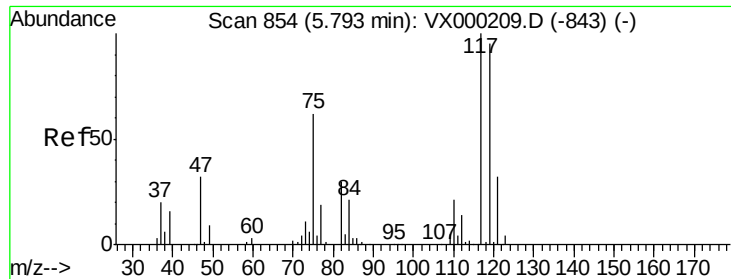


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.39 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.12 min

Lab File: VX000307.D

Acq: 13 Mar 2018 18:20

Instrument :

MSVOA\_X

ClientSampled :

153-20

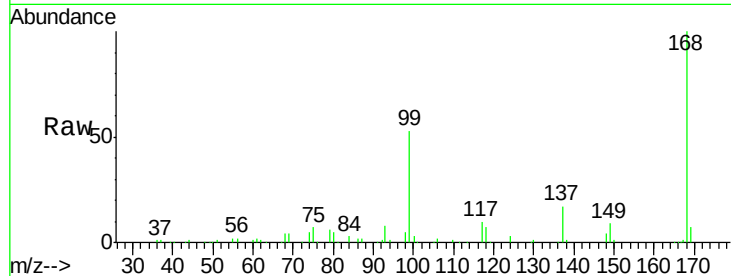
Tot Ion:117 Resp: 10882

Ion Ratio Lower Upper

117 100

119 4.3 75.9 113.9#

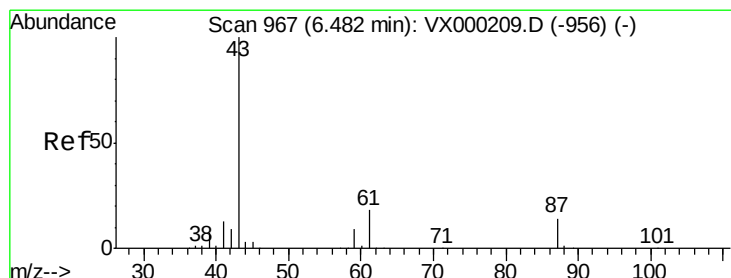
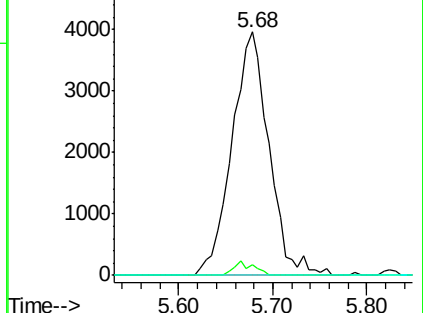
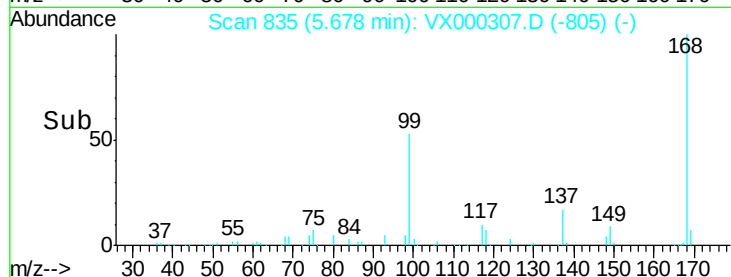
121 0.0 25.8 38.6#



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



#43

Isopropyl Acetate

Concen: 0.37 ug/l

RT: 6.49 min Scan# 968

Delta R.T. 0.01 min

Lab File: VX000307.D

Acq: 13 Mar 2018 18:20

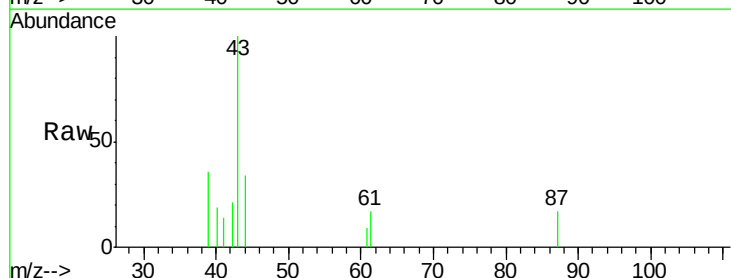
Tgt Ion: 43 Resp: 1318

Ion Ratio Lower Upper

43 100

61 18.0 14.8 22.2

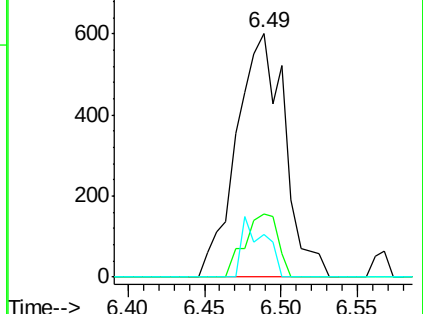
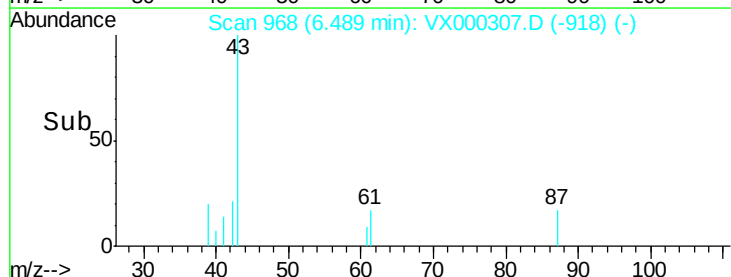
87 11.8 10.6 16.0

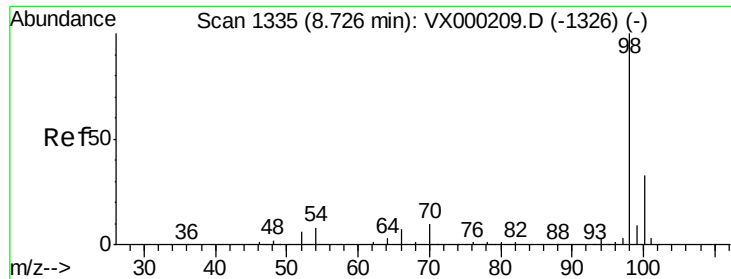


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

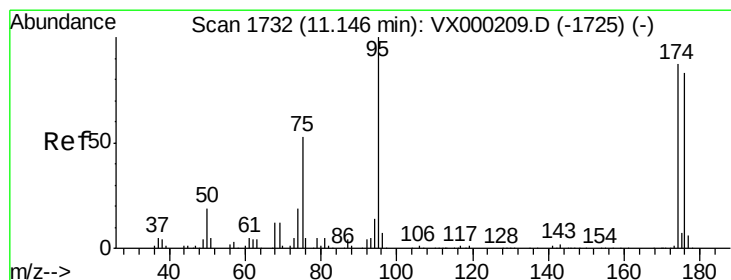
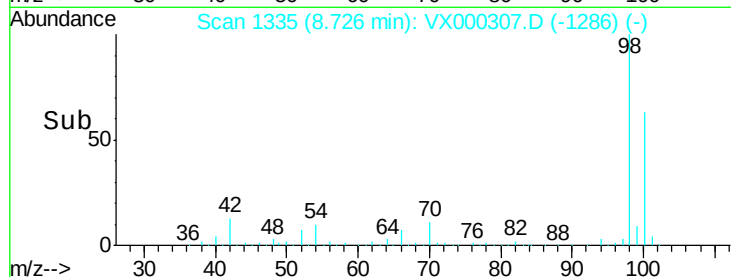
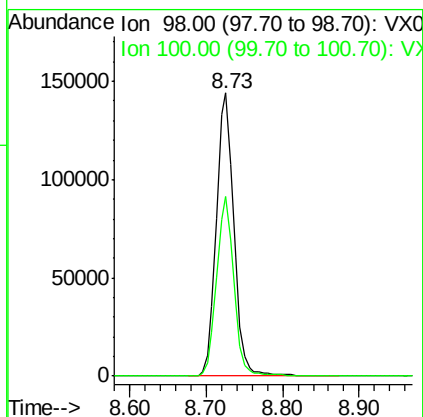
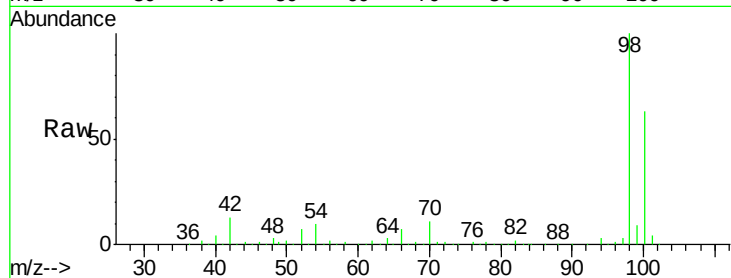




#50  
Toluene-d8  
Concen: 46.62 ug/l  
RT: 8.73 min Scan# 1335  
Delta R.T. 0.00 min  
Lab File: VX000307.D  
Acq: 13 Mar 2018 18:20

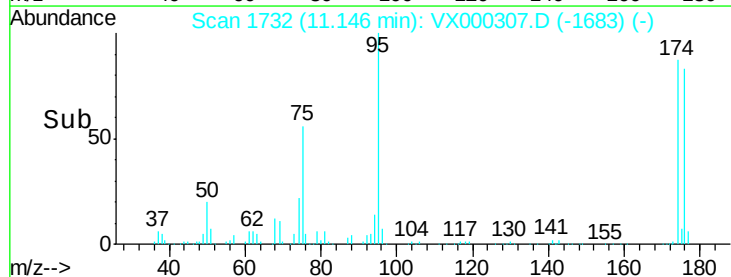
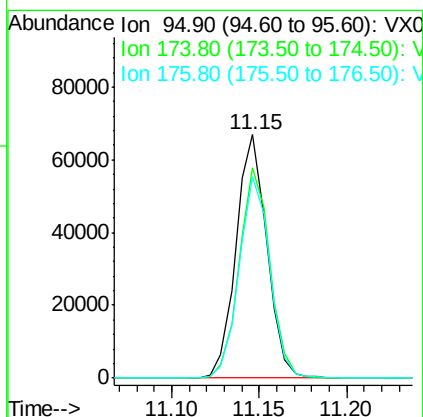
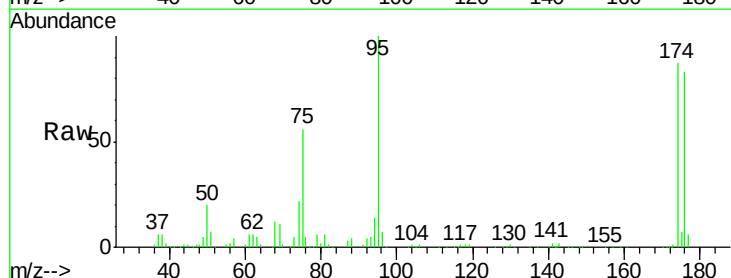
Instrument :  
MSVOA\_X  
ClientSampleId :  
153-20

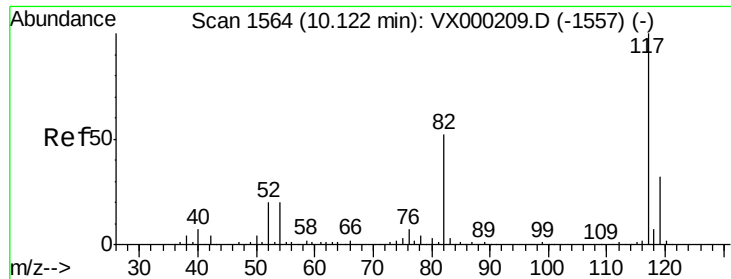
Tot Ion: 98 Resp: 229453  
Ion Ratio Lower Upper  
98 100  
100 62.5 51.2 76.8



#62  
4-Bromofluorobenzene  
Concen: 42.74 ug/l  
RT: 11.15 min Scan# 1732  
Delta R.T. 0.00 min  
Lab File: VX000307.D  
Acq: 13 Mar 2018 18:20

Tgt Ion: 95 Resp: 82095  
Ion Ratio Lower Upper  
95 100  
174 86.0 0.0 175.6  
176 82.6 0.0 171.0

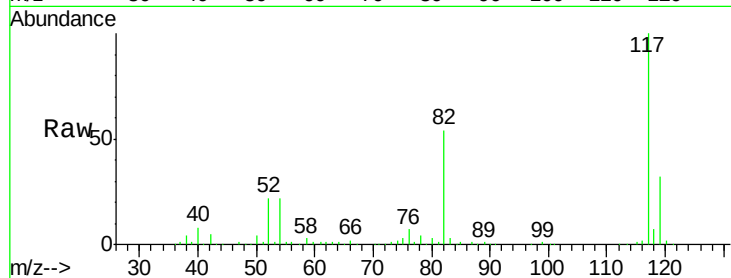




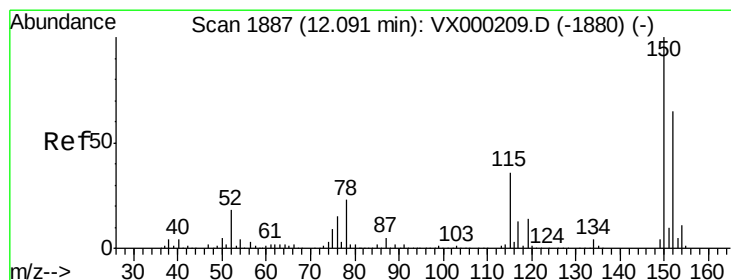
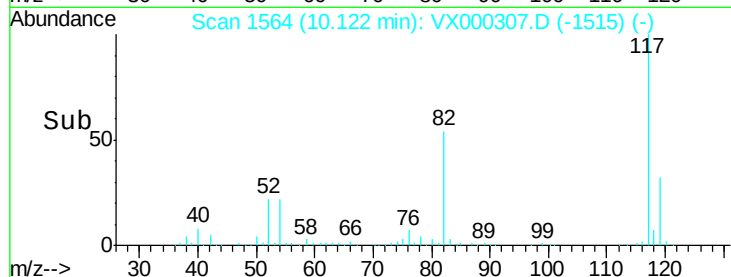
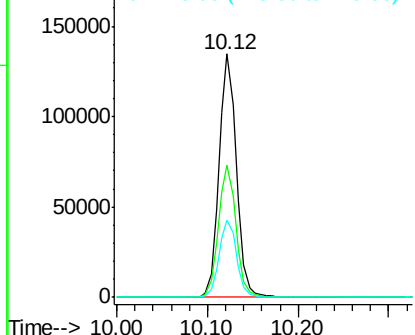
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. 0.00 min  
Lab File: VX000307.D  
Acq: 13 Mar 2018 18:20

Instrument :  
MSVOA\_X  
ClientSampled :  
153-20

Tot Ion:117 Resp: 180478  
Ion Ratio Lower Upper  
117 100  
82 54.3 42.0 63.0  
119 31.7 25.3 37.9

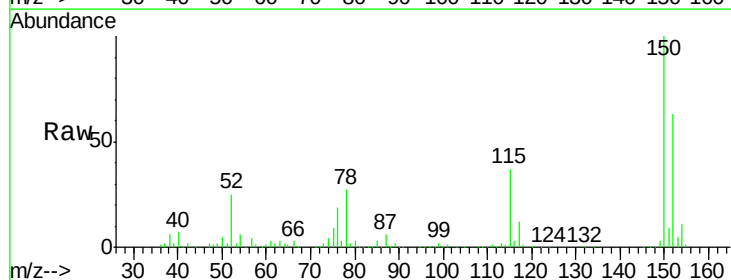


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

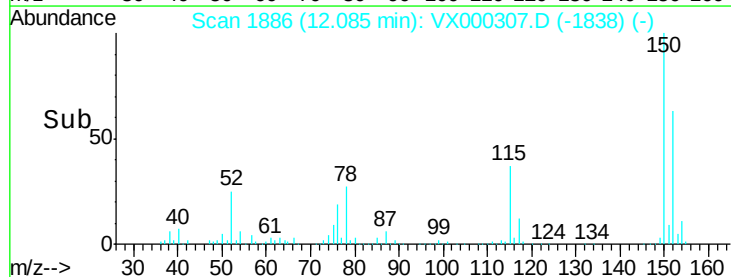
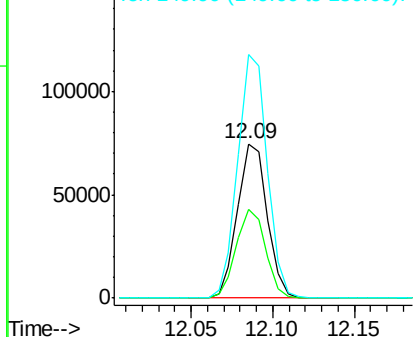


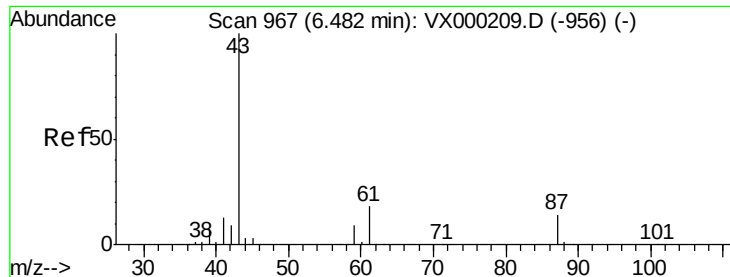
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.09 min Scan# 1886  
Delta R.T. -0.01 min  
Lab File: VX000307.D  
Acq: 13 Mar 2018 18:20

Tgt Ion:152 Resp: 95287  
Ion Ratio Lower Upper  
152 100  
115 56.9 39.8 119.3  
150 156.7 0.0 345.0



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: 0.43 ug/l

RT: 6.49 min Scan# 968

Delta R.T. 0.01 min

Lab File: VX000307.D

Acq: 13 Mar 2018 18:20

Instrument :  
MSVOA\_X  
ClientSampled :  
153-20

Tot Ion: 43 Resp: 1318

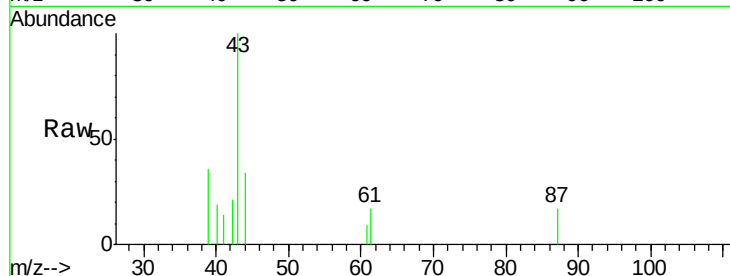
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 18.0 14.8 22.2

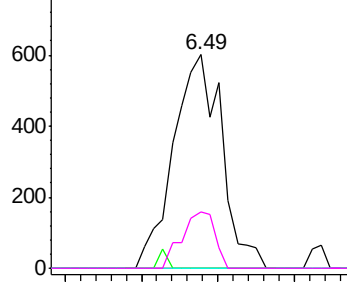


Abundance Ion 43.00 (42.70 to 43.70): VX0

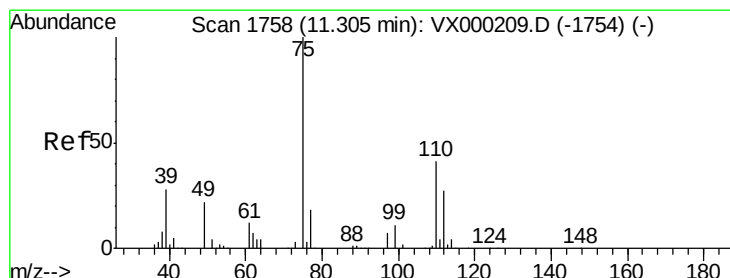
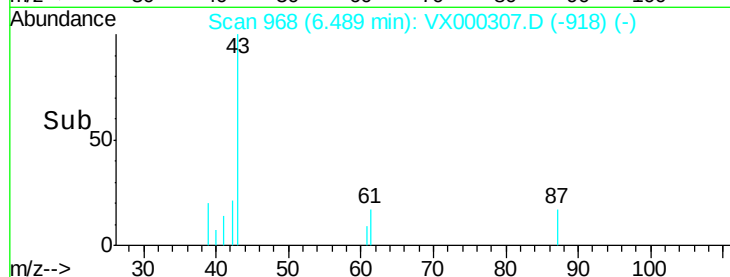
Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



Time--> 6.40 6.45 6.50 6.55



#76

1,2,3-Trichloropropane

Concen: 24.26 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000307.D

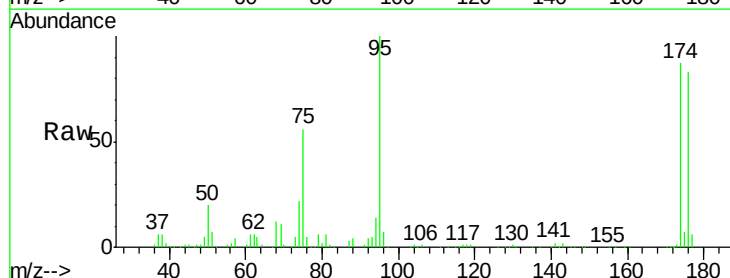
Acq: 13 Mar 2018 18:20

Tgt Ion: 75 Resp: 46337

Ion Ratio Lower Upper

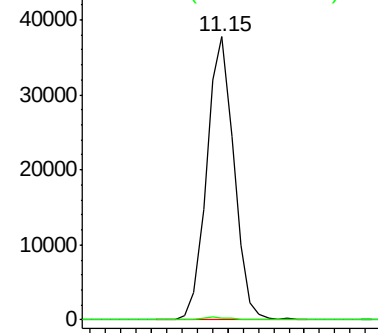
75 100

77 1.2 22.3 66.8#

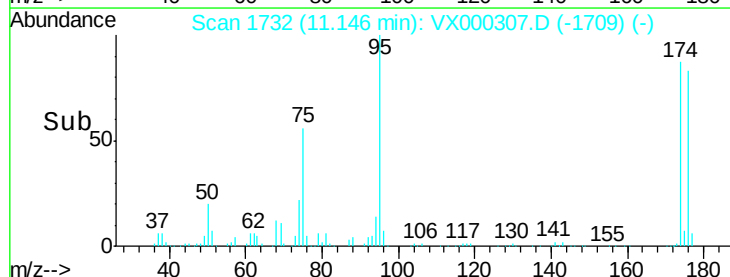


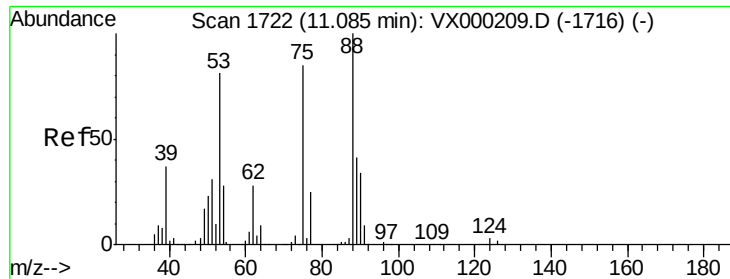
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time--> 11.10 11.15 11.20





#81

trans-1,4-Dichloro-2-butene

Concen: 74.29 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000307.D

Acq: 13 Mar 2018 18:20

Instrument :

MSVOA\_X

ClientSampleId :

153-20

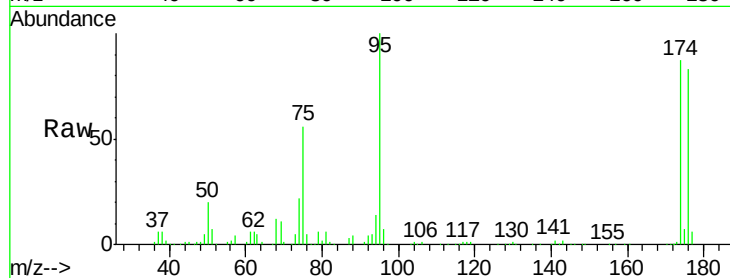
Tot Ion: 75 Resp: 46337

Ion Ratio Lower Upper

75 100

53 0.0 78.6 118.0#

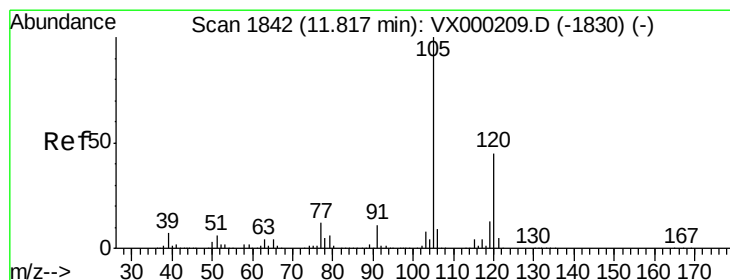
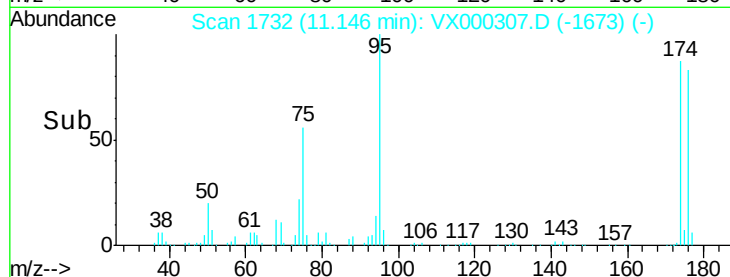
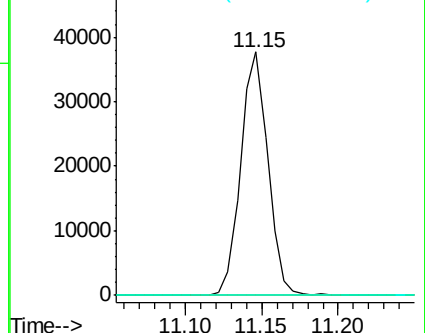
89 0.0 38.8 58.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#84

1,2,4-Trimethylbenzene

Concen: 0.21 ug/l

RT: 11.82 min Scan# 1842

Delta R.T. 0.00 min

Lab File: VX000307.D

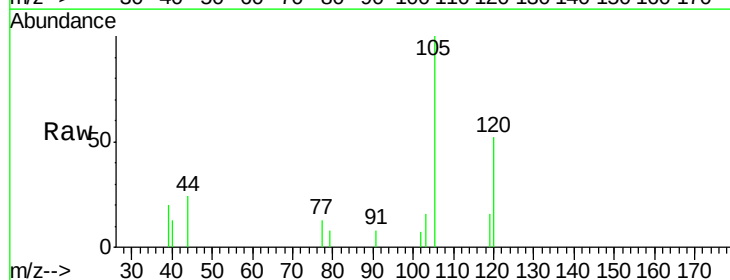
Acq: 13 Mar 2018 18:20

Tgt Ion:105 Resp: 1074

Ion Ratio Lower Upper

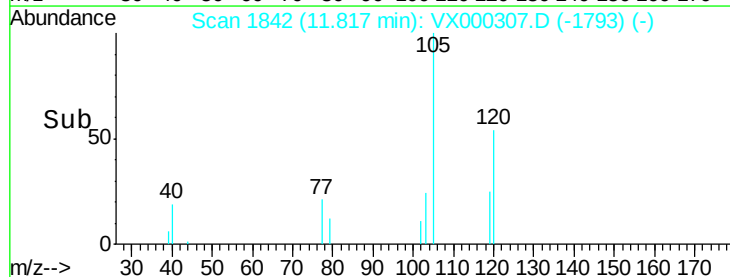
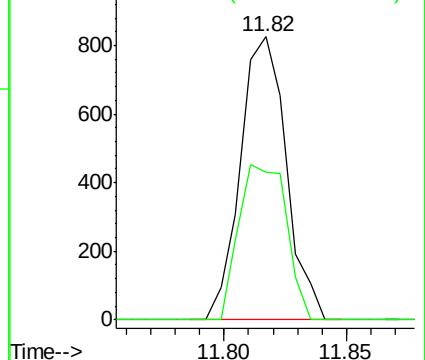
105 100

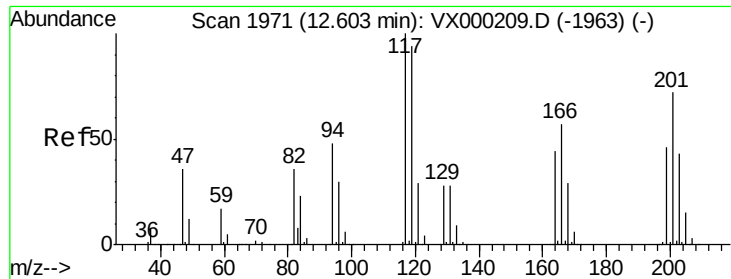
120 56.7 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 0.23 ug/l

RT: 12.76 min Scan# 1997

Delta R.T. 0.16 min

Lab File: VX000307.D

Acq: 13 Mar 2018 18:20

Instrument :

MSVOA\_X

ClientSampleId :

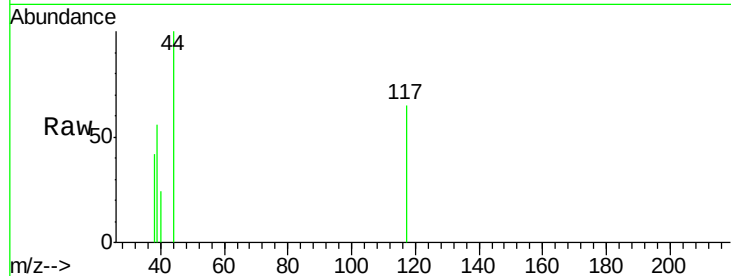
153-20

Tot Ion:117 Resp: 202

Ion Ratio Lower Upper

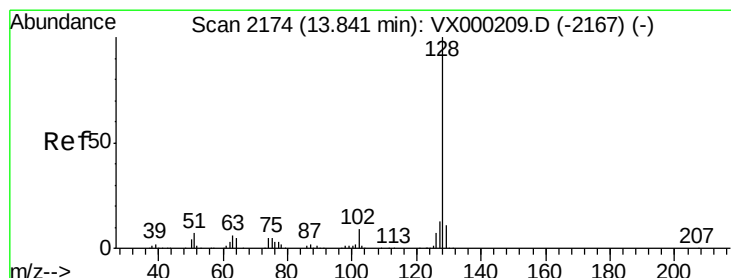
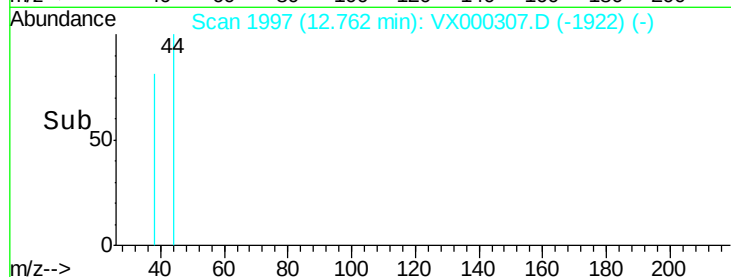
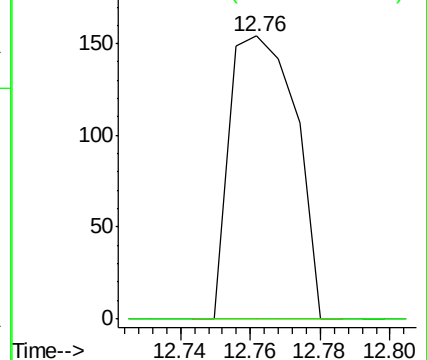
117 100

201 0.0 38.2 114.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 6.02 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX000307.D

Acq: 13 Mar 2018 18:20

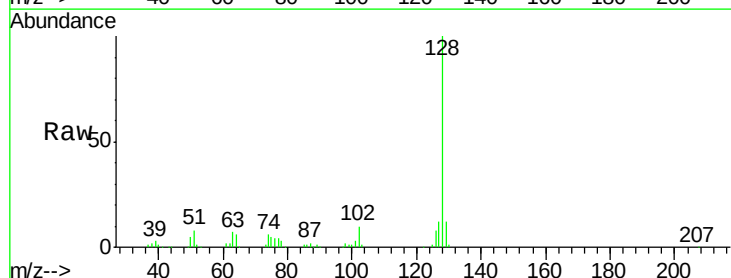
Tgt Ion:128 Resp: 44341

Ion Ratio Lower Upper

128 100

127 12.7 10.5 15.7

129 11.2 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

